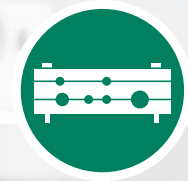


Block Clamps



Special Clamps



Light Series



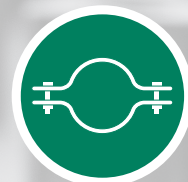
Saddle Clamps



U-Bolt Clamps



Metal Clamps



Construction Series



## Germany

**Walter Stauffenberg GmbH & Co. KG**  
Im Ehrenfeld 4  
58791 Werdohl

**[www.stauff.com](http://www.stauff.com)**

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

**You can find detailed contact information on the last two pages of this product catalogue or at [www.stauff.com/contact](http://www.stauff.com/contact).**

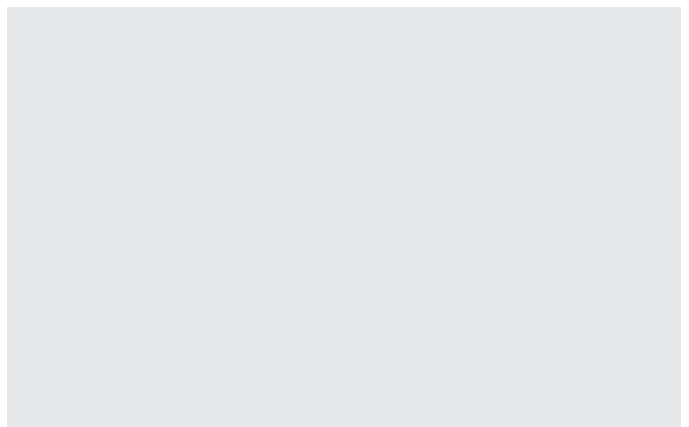
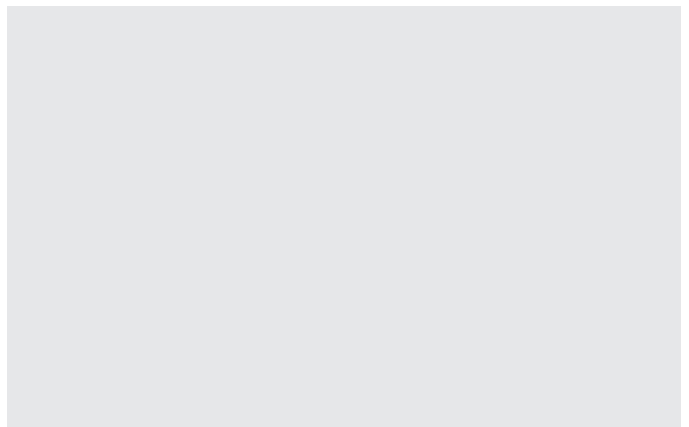
Please note: Unless otherwise stated, all data and figures in this product catalogue are approximate values and are only valid as references, which are not binding (also in respect to any third parties' rights of protection) and thus do not release the customer / user from checking and testing the suitability of the products for the foreseen purposes. Therefore, data and figures can only be used in a limited sense for construction purposes.

The application of the products is beyond the control possibilities of the manufacturer and, therefore, is exclusively subject to the responsibility of the customer / user.

In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by the manufacturer and used by the customer / user. As a matter of course, the manufacturer guarantees the perfect quality of all products in accordance with the General Terms and Conditions of Business and Sale.

Subject to modifications due to the ongoing development and improvement of the products.

With the publication of this product catalogue, previous editions are no longer valid.





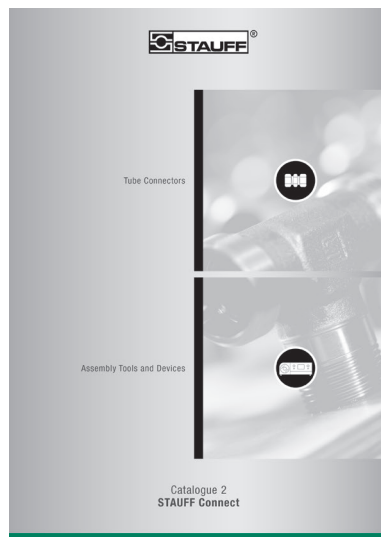
|                                                                      |           |   |
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| Heavy Series according to DIN 3015, Part 2                           | 34 - 51   | B |
| Twin Series according to DIN 3015, Part 3                            | 52 - 63   | C |
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| Saddle / Piggyback Clamps                                            | 120 - 123 | J |
| Flat Steel and Round Steel U-Bolt Clamps                             | 124 - 133 | K |
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| Other Types of Clamps                                                | 146 - 151 | N |
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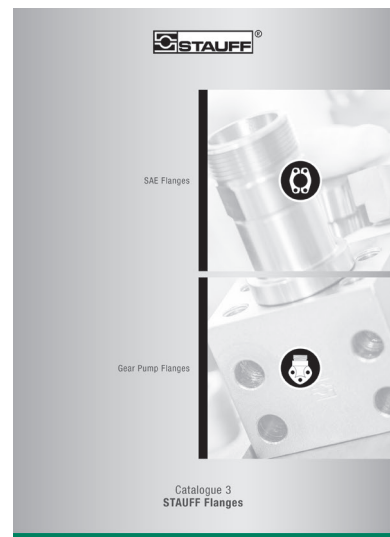
### Catalogue 1 STAUFF Clamps

- Block Clamps
- Special Clamps
- Light Series Clamps
- Saddle Clamps
- U-Bolt Clamps
- Metal Clamps
- Construction Series



### Catalogue 2 STAUFF Connect

- Tube Connectors
- Assembly Tools and Devices



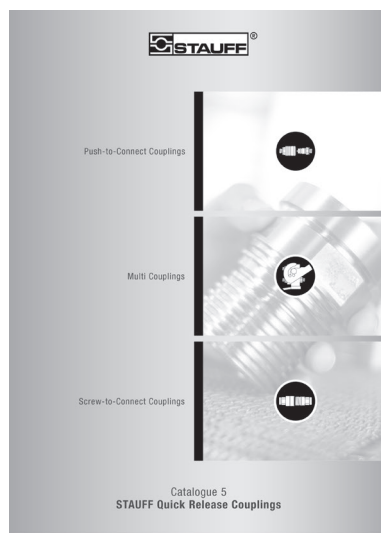
### Catalogue 3 STAUFF Flanges

- SAE Flanges
- Gear Pump Flanges



### Catalogue 4 STAUFF Hose Connectors

- Hose Connectors
- High-Pressure Hose Connectors



### Catalogue 5 STAUFF Quick Release Couplings

- Push-to-Connect Couplings
- Multi Couplings
- Screw-to-Connect Couplings



### Catalogue 6 STAUFF Valves

- Two-Way Ball Valves
- Multi-Way Ball Valves
- Flow Control and Check Valves
- Gauge Isolator Valves





### Catalogue 7 STAUFF Test

- Test Couplings
- Test Adaptors
- Test Hoses and Connectors



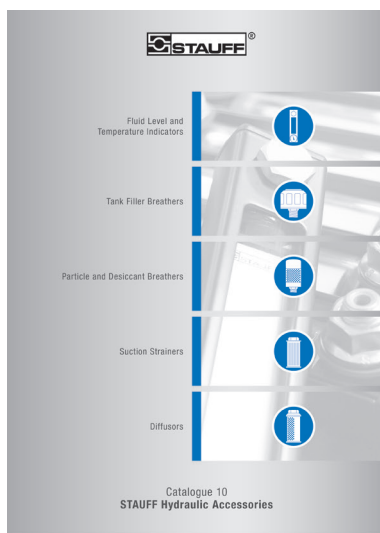
### Catalogue 8 STAUFF Diagtronics

- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment



### Catalogue 9 STAUFF Filtration Technology

- Replacement Filter Elements
- Pressure Filters
- Return-Line Filters
- In-Line Filters
- Spin-On Filters
- Offline and Bypass Filters
- Filtration Systems



### Catalogue 10 STAUFF Hydraulic Accessories

- Fluid Level and Temperature Indicators
- Tank Filler Breathers
- Giant and Desiccant Air Breathers
- Suction Strainers
- Diffusers



For more than 50 years, the companies of STAUFF Group have been developing, manufacturing and distributing pipework equipment and hydraulic components for mechanical and plant engineering and for service and industrial maintenance.

In addition to mobile and industrial hydraulic machinery, typical applications also include commercial and special purpose vehicles, rail transportation and energy technology. Likewise, STAUFF products are used in marine, oil and gas applications and in the process, food and chemical industries.

The overall range currently includes about 50000 standard products as well as numerous special and system solutions according to customer's specifications or based on our in-house development.

All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

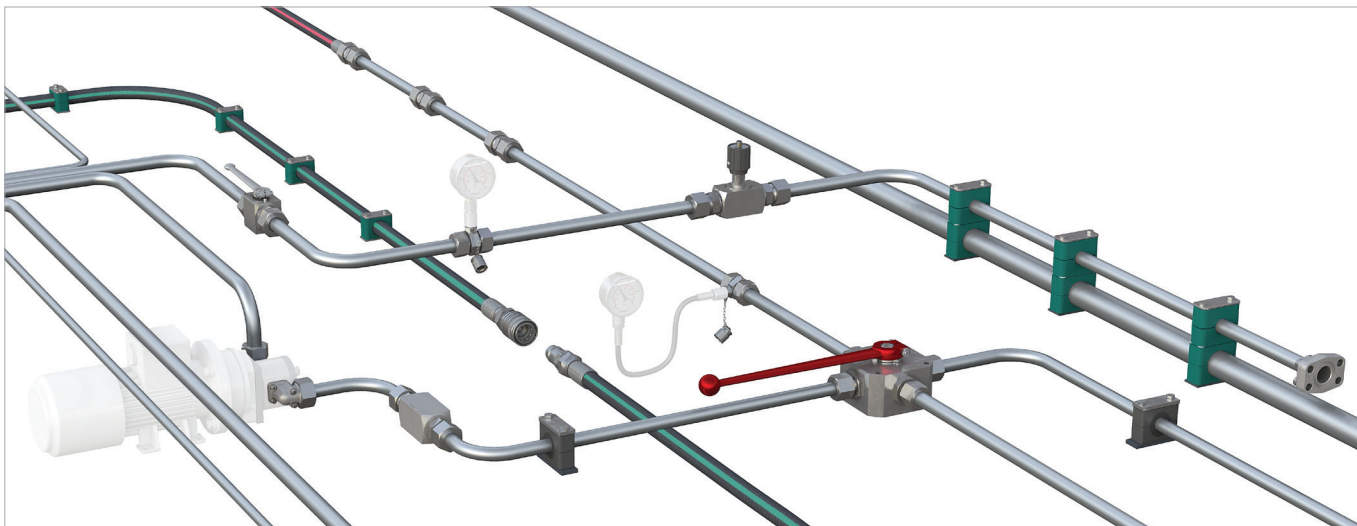
Wholly-owned manufacturing, sales and service facilities in 18 countries and a tight global network of authorised distribution partners ensure high presence and service paired with a maximum of availability.



Lloyd's Register  
LRQA

Quality Management – ISO 9001:2015  
Environmental Management – ISO 14001:2015  
Safety Management – ISO 45001:2018  
Energy Management – ISO 50001:2018

## STAUFF LINE Components



With the seven dedicated **STAUFF Line** product groups

- **STAUFF Clamps**
- **STAUFF Connect**
- **STAUFF Flanges**
- **STAUFF Hose Connectors**
- **STAUFF Quick Release Couplings**
- **STAUFF Valves**
- **STAUFF Test**

from own, in-house development and manufacturing, the companies of the STAUFF Group provide a comprehensive range of components for fastening and connecting pipes, tubes and hoses for mobile and industrial hydraulic applications and many other industries.

The portfolio is completed by components for shutting-off, regulating, throttling and measuring fluid media.

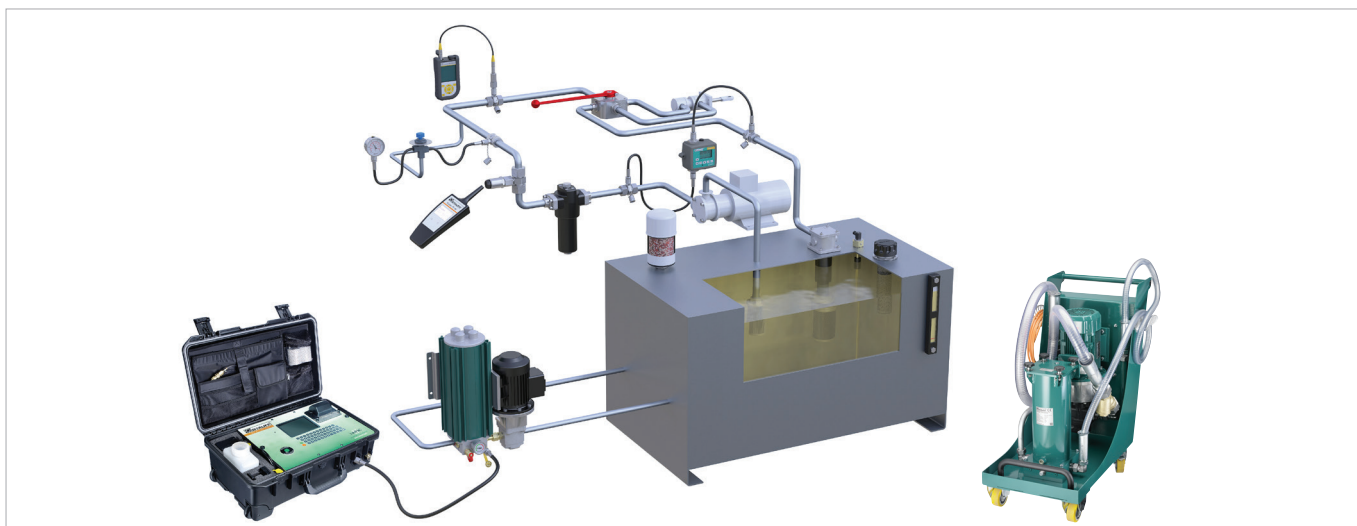
In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

If desired, Original Equipment Manufacturers can be supported with value-added services, from **technical consultation to pre-assembly, assembly and kitting** as well as **logistics services**:

- Support with the **selection of suitable standard components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- **Analysis and optimization** of existing and design and developments of new systems aimed at increasing the efficiency and performance of machines and equipment and creating value for customers by reducing the total cost
- **Pre-assembly, assembly and kitting** of individual components to customer-specific system modules
- Individually coordinated **procurement solutions** (e.g. web shop and electronic data interchange) and **supply models** (e.g. from warehousing of customised components to Kanban logistics and just-in-time delivery of pre-fabricated system modules to the assembly lines of the customers) aimed at optimising material flows





Aligned with the needs of the market, the product groups

- STAUFF Test
- STAUFF Diagtronics
- STAUFF Filtration Technology
- STAUFF Hydraulic Accessories

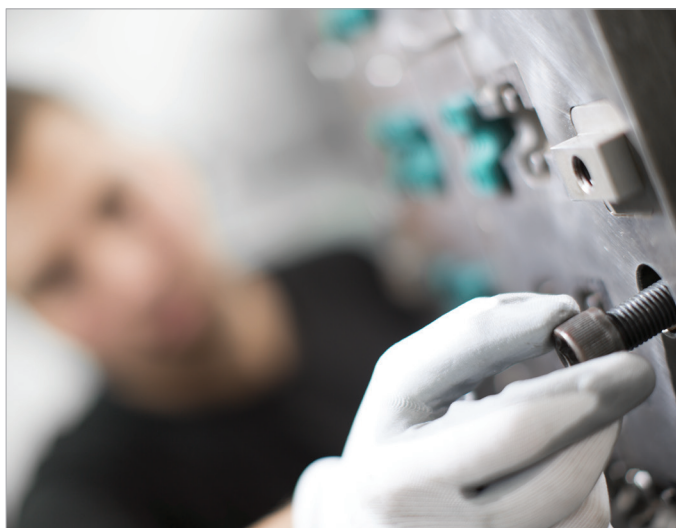
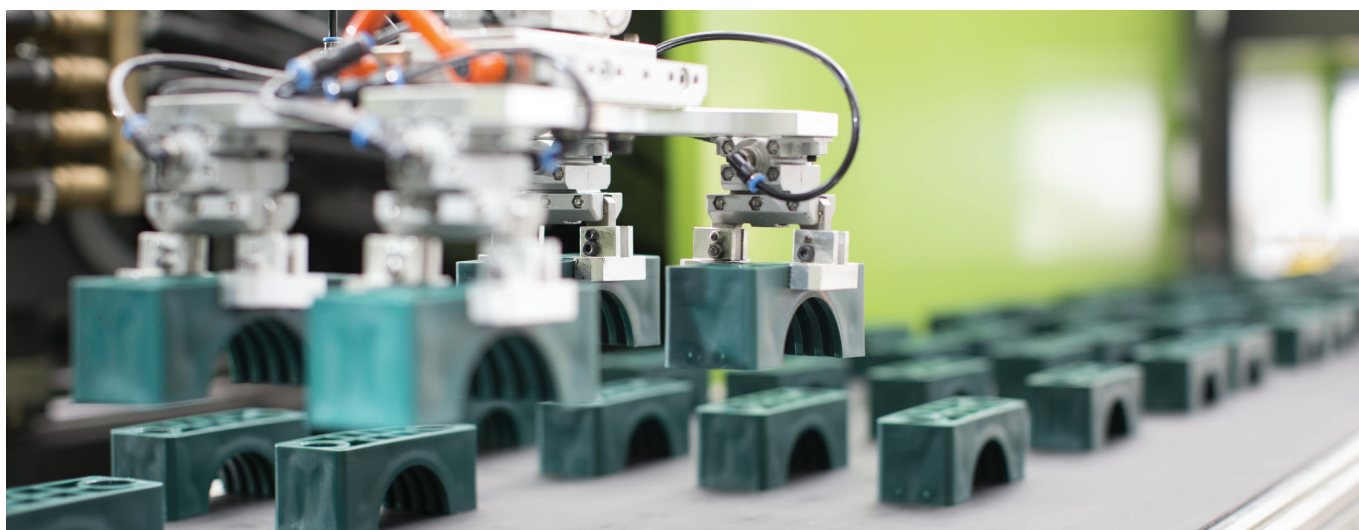
include a comprehensive range of analogue and digital measuring equipment and devices, filtration systems and replacement filter elements as well as accessories for the construction of tanks, reservoirs, power packs and gear boxes in mobile and industrial hydraulics.

The offer is completed by relevant value-added services:

- Support with the **selection of suitable components** and ordering options; provision of **customised solutions** according to customer's specifications or based on our in-house development – from prototyping to large scale production
- Analysis of existing hydraulic circuits aimed at filtration systems, tank components and monitoring devices that perfectly match to the specific requirements, and developing integrated concepts to increase the efficiency and performance of machines and equipment
- Individually coordinated **procurement solutions** and **supply models**







## STAUFF Clamps

For more than 50 years, STAUFF Clamps symbolise quick and easy as well as secure installation of pipes, tubes, hoses, cables and other flexible and rigid components with outside diameters up to 1016 mm / 40.00 inch.

Their vibration and noise reducing features are appreciated as being an important contribution to environmental protection and occupational health and safety.

The processing of fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94) is only one of the many particular strengths of STAUFF.

STAUFF guarantees prompt service, even for customised solutions according to customer's specifications or based on our in-house development.

For selected types and series, independent certificates and approvals can be provided:

- American Bureau of Shipping
- Bureau Veritas
- Department of the Navy, New York
- Germanischer Lloyd
- Lloyd's Register of Shipping
- Registro Italiano Navale
- Technischer Überwachungsverein
- United States Coast Guard

For the finishing of the range of pipe, tube, hose and cable clamps as well as metal hardware in carbon steel, STAUFF relies on the STAUFF Zinc/Nickel surface coating which has proven successful for many years. It provides reliable surface protection – even after transport, handling and assembly – and meets all current legal requirements.

Versions in stainless steel V2A and V4A are generally available from stock. Alternative materials and surfaces are available on request.





## STAUFF Zinc/Nickel Coating



### Layers

- Sealing
- Passivation
- Zinc/Nickel
- Steel

With at least 1200 hours resistance against red rust, the STAUFF Zinc/Nickel surface coating offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of STAUFF components since 2007.

- At least 1200 hours resistance to red rust / base metal corrosion under practical conditions in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Surpassing the requirements of the corrosion protection class K5 as defined by the VDMA, the German Engineering Association (360 hours resistance to white rust / 720 hours resistance to red rust)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)

- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according to DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media







## www.stauff.com/catalogues

The STAUFF online catalogue centre at [www.stauff.com/catalogues](http://www.stauff.com/catalogues) provides fast and direct access to digital versions of this as well as other STAUFF product catalogues in all available languages.

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\* may require a suitable app



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[www.stauff.com/1/en/#10](http://www.stauff.com/1/en/#10)







## www.stauff.com

With the STAUFF Digital Platform available at [www.stauff.com](http://www.stauff.com), commercial customers and users of STAUFF products can not only inform themselves in all detail about the 50000 components typically available from stock, but also directly purchase these online without complex registration.

General information about the companies of STAUFF Group, latest business and product news as well as complete global contact details also be available.

## www.stauff.com/cad

Immediate access to and free download of 3D models and 2D drawings for a growing number of STAUFF products

## www.filterinterchange.com

Online database for the quick and easy identification and interchange of almost all common brands and types of replacement filter elements

### Main Functionalities of the STAUFF Digital Platform:



#### Around the clock

Check stock availability and pricing for STAUFF products in real time



#### Cross references

Search by article designations of other manufacturers / suppliers



#### Live chat

Get directly in touch with the STAUFF customer service and sales team



#### CAD database

Download 3D models and 2D drawings for STAUFF products

### Advantages as a Registered User of the STAUFF Digital Platform:



#### Purchase STAUFF products

Taking customer-specific pricing and delivery conditions into account



#### Ordering w/o searching

Quick ordering by entering article number, quantity and requested delivery date



#### File upload

Direct upload of orders with multiple positions in CSV or Excel file format



#### Notepad function

Create project lists to save interesting products for later

Follow STAUFF and keep yourself updated:



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#### Youtube

[www.youtube.com/stauffgroup](http://www.youtube.com/stauffgroup)



#### STAUFF Newsletters

Automatic e-mail notifications about latest news from STAUFF  
[www.stauff.com/newsletter](http://www.stauff.com/newsletter)





**Clamp Body**  
Profiled Inside Surface with Tension Clearance

14



**Clamp Body**  
Smooth Inside Surface without Tension Clearance

15



**Clamp Body with Elastomer Insert**

16



**Noise Reduction Clamp**

17



**Clamp Body for Conduit Hoses and Cable Inserts**

18



**Clamp Body**  
Compact Design for both Compact / Regular Hydraulic Hoses

19



**Clamp Body**  
Rectangular Design for Proximity Switches

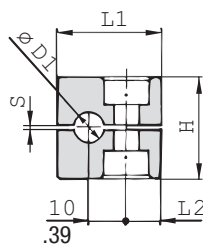
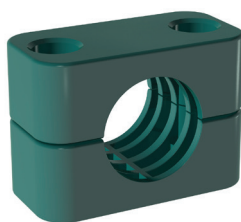
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|                                                                                     |                                               |    |                                                                                     |                                                            |    |
|-------------------------------------------------------------------------------------|-----------------------------------------------|----|-------------------------------------------------------------------------------------|------------------------------------------------------------|----|
|    | <b>Weld Plate</b><br>SP                       | 20 |    | <b>Cover Plate</b><br>DP                                   | 26 |
|    | <b>Elongated Weld Plate</b><br>SPV            | 20 |    | <b>Hexagon Head Bolt for use with Cover Plate DP</b><br>AS | 26 |
|    | <b>Twin Weld Plate</b><br>DSP                 | 21 |    | <b>Safety Washer (DIN 93)</b><br>SI                        | 27 |
|    | <b>Group Weld Plate</b><br>RAP                | 21 |    | <b>Safety Washer (DIN 463)</b><br>SI                       | 27 |
|    | <b>Angled Weld Plate</b><br>WSP               | 22 |    | <b>Socket Cap Screw</b><br>IS                              | 28 |
|    | <b>Bridge Weld Plate</b><br>BSP               | 22 |    | <b>Slotted Head Screw</b><br>LI                            | 28 |
|    | <b>Clamp Body for Multi-Group Weld Plates</b> | 23 |    | <b>Hexagon Head Bolt for use with Insert ES / EP</b><br>AS | 28 |
|    | <b>Multi-Group Weld Plate</b><br>RAP-MGR      | 23 |    | <b>Insert</b><br>ES / EP                                   | 28 |
|  | <b>Hexagon Rail Nut</b><br>SM                 | 24 |   | <b>Safety Locking Plate</b><br>SIG                         | 29 |
|  | <b>Mounting Rail</b><br>TS                    | 24 |  | <b>Stacking Bolt</b><br>AF                                 | 29 |
|  | <b>Channel Rail Adaptor</b><br>CRA            | 25 |                                                                                     | <b>Clamp Assemblies</b>                                    | 30 |

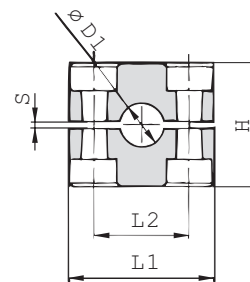


## Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8

### Ordering Codes

#### Clamp Body

Clamp Body, STAUFF Group 1A

\*1\*06-\*PP

\*1\*06A-\*PP

One clamp body is consisting of two clamp halves.

- \* STAUFF Group
- \* Exact outside diameter Ø D1 (mm)
- \* Material code (see below)

1  
06  
PP

### Standard Materials



#### Polypropylene

Colour: Green  
Material code: **PP**



#### Polypropylene

Colour: Black  
Material code: **PP-BK**



#### Polyamide

Colour: Black  
Material code: **PA**



#### Thermoplastic Elastomer (87 Shore-A)

Colour: Black  
Material code: **SA**



#### Aluminium

Colour: Self-Colour  
Material code: **AL** (STAUFF Group 1A to 6)

See pages 154 / 155 for material properties and technical information.

### Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

### Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions

| Group | STAUFF | DIN | Outside Diameter<br>Pipe / Tube<br>Ø D1 |       | Nominal Bore<br>Pipe<br>(in) | Copper Tube<br>ASTM B88<br>(in) | Ordering Codes<br>(2 Clamp Halves)<br>(** = Material) | Dimensions<br>(mm/in) |      |      |        |       |
|-------|--------|-----|-----------------------------------------|-------|------------------------------|---------------------------------|-------------------------------------------------------|-----------------------|------|------|--------|-------|
|       |        |     | (mm)                                    | (in)  |                              |                                 |                                                       | L1                    | L2   | H    | S min. | Width |
| 1     |        | 0   | 6                                       |       |                              |                                 | 106-***                                               |                       |      |      |        |       |
|       |        |     | 6,4                                     | 1/4   |                              |                                 | 106.4-***                                             |                       |      |      |        |       |
|       |        |     | 8                                       | 5/16  |                              |                                 | 108-***                                               | 28                    | 9,5  | 27   | 0,4    | 30    |
|       |        |     | 9,5                                     | 3/8   |                              | 1/4                             | 109.5-***                                             | 1.10                  | .37  | 1.06 | .02    | 1.18  |
|       |        |     | 10                                      |       | 1/8                          |                                 | 110-***                                               |                       |      |      |        |       |
| 1A    |        | 1   | 12                                      |       |                              |                                 | 112-***                                               |                       |      |      |        |       |
|       |        |     | 6                                       |       |                              |                                 | 106A-***                                              |                       |      |      |        |       |
|       |        |     | 6,4                                     | 1/4   |                              |                                 | 106.4A-***                                            |                       |      |      |        |       |
|       |        |     | 8                                       | 5/16  |                              |                                 | 108A-***                                              | 37                    | 20   | 27   | 0,4    | 30    |
|       |        |     | 9,5                                     | 3/8   |                              | 1/4                             | 109.5A-***                                            | 1.46                  | .79  | 1.06 | .02    | 1.18  |
| 2     |        | 2   | 10                                      |       | 1/8                          |                                 | 110A-***                                              |                       |      |      |        |       |
|       |        |     | 12                                      |       |                              |                                 | 112A-***                                              |                       |      |      |        |       |
|       |        |     | 12,7                                    | 1/2   |                              | 3/8                             | 212.7-***                                             |                       |      |      |        |       |
|       |        |     | 13,5                                    |       | 1/4                          |                                 | 213.5-***                                             |                       |      |      |        |       |
|       |        |     | 14                                      |       |                              |                                 | 214-***                                               |                       |      |      |        |       |
| 3     |        | 3   | 15                                      |       |                              |                                 | 215-***                                               | 42                    | 26   | 33   | 0,6    | 30    |
|       |        |     | 16                                      | 5/8   |                              | 1/2                             | 216-***                                               | 1.65                  | 1.02 | 1.30 | .02    | 1.18  |
|       |        |     | 17,2                                    |       | 3/8                          |                                 | 217.2-***                                             |                       |      |      |        |       |
|       |        |     | 18                                      |       |                              |                                 | 218-***                                               |                       |      |      |        |       |
|       |        |     | 19                                      | 3/4   |                              |                                 | 319-***                                               |                       |      |      |        |       |
| 4     |        | 4   | 20                                      |       |                              |                                 | 320-***                                               |                       |      |      |        |       |
|       |        |     | 21,3                                    |       | 1/2                          |                                 | 321.3-***                                             | 50                    | 33   | 36   | 0,6    | 30    |
|       |        |     | 22                                      | 7/8   |                              | 3/4                             | 322-***                                               | 1.97                  | 1.30 | 1.42 | .02    | 1.18  |
|       |        |     | 25                                      |       |                              |                                 | 325-***                                               |                       |      |      |        |       |
|       |        |     | 25,4                                    | 1     |                              |                                 | 325.4-***                                             |                       |      |      |        |       |
| 5     |        | 5   | 26,9                                    |       | 3/4                          |                                 | 426.9-***                                             |                       |      |      |        |       |
|       |        |     | 28                                      |       |                              |                                 | 428-***                                               |                       |      |      |        |       |
|       |        |     | 28,6                                    |       |                              | 1                               | 428.6-***                                             | 59                    | 40   | 42   | 0,6    | 30    |
|       |        |     | 30                                      |       |                              |                                 | 430-***                                               | 2.32                  | 1.57 | 1.65 | .02    | 1.18  |
|       |        |     | 32                                      |       |                              |                                 | 432-***                                               |                       |      |      |        |       |
| 6     |        | 6   | 32                                      | 1-1/4 |                              |                                 | 532-***                                               |                       |      |      |        |       |
|       |        |     | 33,7                                    |       | 1                            |                                 | 533.7-***                                             |                       |      |      |        |       |
|       |        |     | 35                                      |       |                              | 1-1/4                           | 535-***                                               | 71                    | 52   | 58   | 0,8    | 30    |
|       |        |     | 38                                      | 1-1/2 |                              |                                 | 538-***                                               | 2.80                  | 2.05 | 2.28 | .03    | 1.18  |
|       |        |     | 40                                      |       |                              |                                 | 540-***                                               |                       |      |      |        |       |
| 7     |        | 7   | 41,3                                    |       | 1-1/2                        |                                 | 541.3-***                                             |                       |      |      |        |       |
|       |        |     | 42                                      |       | 1-1/4                        |                                 | 542-***                                               |                       |      |      |        |       |
|       |        |     | 44,5                                    | 1-3/4 |                              |                                 | 644.5-***                                             |                       |      |      |        |       |
|       |        |     | 48,3                                    |       | 1-1/2                        |                                 | 648.3-***                                             | 86                    | 66   | 66   | 0,8    | 30    |
|       |        |     | 50,8                                    | 2     |                              |                                 | 650.8-***                                             | 3.39                  | 2.60 | 2.60 | .03    | 1.18  |
| 8     |        | 8   | 54                                      |       | 2                            |                                 | 654-***                                               |                       |      |      |        |       |
|       |        |     | 57,2                                    | 2-1/4 |                              |                                 | 757.2-***                                             |                       |      |      |        |       |
|       |        |     | 60,3                                    |       | 2                            |                                 | 760.3-***                                             |                       |      |      |        |       |
|       |        |     | 63,5                                    | 2-1/2 |                              |                                 | 763.5-***                                             | 121                   | 94   | 93   | 0,8    | 30    |
|       |        |     | 70                                      | 2-3/4 |                              |                                 | 770-***                                               | 4.76                  | 3.70 | 3.66 | .03    | 1.18  |
| 9     |        | 9   | 73                                      |       | 2-1/2 (ANSI B 36-10)         |                                 | 773-***                                               |                       |      |      |        |       |
|       |        |     | 76,1                                    | 3     | 2-1/2 (DIN EN 10220)         |                                 | 776.1-***                                             |                       |      |      |        |       |
|       |        |     | 88,9                                    |       | 3                            |                                 | 888.9-***                                             | 147                   | 120  | 118  | 0,8    | 30    |
| 10    |        | 10  | 102                                     | 4     | 3-1/2                        |                                 | 8102L-***                                             | 5.79                  | 4.72 | 4.65 | .03    | 1.18  |

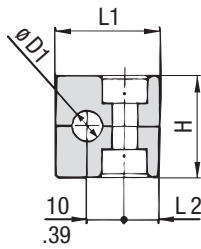
Additional outside diameters are available upon request. Please contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

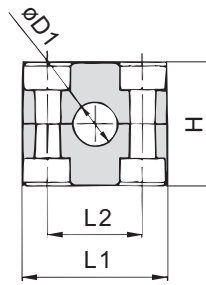


## Clamp Body ▪ Type H

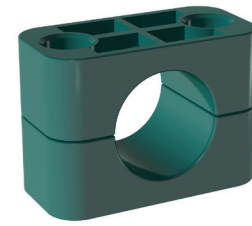
Smooth Inside Surface without Tension Clearance



STAUFF Group 1



STAUFF Group 1A to 8



A

| Group | STAUFF | DIN | Outside Diameter     |       | Ordering Codes<br>(2 Clamp Halves) | Dimensions<br>(mm/in) |      |      |       |
|-------|--------|-----|----------------------|-------|------------------------------------|-----------------------|------|------|-------|
|       |        |     | Hose<br>Ø D1<br>(mm) | (in)  |                                    | L1                    | L2   | H    | Width |
| 1     | 0      |     | 6                    |       | 106-**-H                           |                       |      |      |       |
|       |        |     | 6,4                  | 1/4   | 106.4-**-H                         |                       |      |      |       |
|       |        |     | 8                    | 5/16  | 108-**-H                           | 28                    | 9,5  | 26   | 30    |
|       |        |     | 9,5                  | 3/8   | 109.5-**-H                         | 1.10                  | .37  | 1.02 | 1.18  |
|       |        |     | 10                   |       | 110-**-H                           |                       |      |      |       |
|       |        |     | 12                   |       | 112-**-H                           |                       |      |      |       |
| 1A    | 1      |     | 6                    |       | 106A-**-H                          |                       |      |      |       |
|       |        |     | 6,4                  | 1/4   | 106.4A-**-H                        |                       |      |      |       |
|       |        |     | 8                    | 5/16  | 108A-**-H                          | 37                    | 20   | 26   | 30    |
|       |        |     | 9,5                  | 3/8   | 109.5A-**-H                        | 1.46                  | .79  | 1.02 | 1.18  |
|       |        |     | 10                   |       | 110A-**-H                          |                       |      |      |       |
|       |        |     | 12                   |       | 112A-**-H                          |                       |      |      |       |
| 2     | 2      |     | 12,7                 | 1/2   | 212.7-**-H                         |                       |      |      |       |
|       |        |     | 13,5                 |       | 213.5-**-H                         |                       |      |      |       |
|       |        |     | 14                   |       | 214-**-H                           | 42                    | 26   | 32   | 30    |
|       |        |     | 15                   |       | 215-**-H                           | 1.65                  | 1.02 | 1.26 | 1.18  |
|       |        |     | 16                   | 5/8   | 216-**-H                           |                       |      |      |       |
|       |        |     | 17,2                 |       | 217.2-**-H                         |                       |      |      |       |
| 3     | 3      |     | 18                   |       | 218-**-H                           |                       |      |      |       |
|       |        |     | 19                   | 3/4   | 319-**-H                           |                       |      |      |       |
|       |        |     | 20                   |       | 320-**-H                           |                       |      |      |       |
|       |        |     | 21,3                 |       | 321.3-**-H                         | 50                    | 33   | 35,5 | 30    |
|       |        |     | 22                   | 7/8   | 322-**-H                           | 1.97                  | 1.30 | 1.40 | 1.18  |
|       |        |     | 25                   |       | 325-**-H                           |                       |      |      |       |
| 4     | 4      |     | 25,4                 | 1     | 325.4-**-H                         |                       |      |      |       |
|       |        |     | 26,9                 |       | 426.9-**-H                         |                       |      |      |       |
|       |        |     | 28                   |       | 428-**-H                           | 59                    | 40   | 41,5 | 30    |
|       |        |     | 30                   |       | 430-**-H                           | 2.32                  | 1.57 | 1.63 | 1.18  |
|       |        |     | 32                   |       | 432-**-H                           |                       |      |      |       |
|       |        |     | 32                   | 1-1/4 | 532-**-H                           |                       |      |      |       |
| 5     | 5      |     | 33,7                 |       | 533.7-**-H                         |                       |      |      |       |
|       |        |     | 35                   |       | 535-**-H                           | 71                    | 52   | 56,5 | 30    |
|       |        |     | 38                   | 1-1/2 | 538-**-H                           | 2.80                  | 2.05 | 2.22 | 1.18  |
|       |        |     | 40                   |       | 540-**-H                           |                       |      |      |       |
|       |        |     | 42                   |       | 542-**-H                           |                       |      |      |       |
|       |        |     | 44,5                 | 1-3/4 | 644.5-**-H                         |                       |      |      |       |
| 6     | 6      |     | 48,3                 |       | 648.3-**-H                         | 86                    | 66   | 64,5 | 30    |
|       |        |     | 50,8                 | 2     | 650.8-**-H                         | 3.39                  | 2.60 | 2.54 | 1.18  |
|       |        |     | 54                   |       | 654-**-H                           |                       |      |      |       |
|       |        |     | 57,2                 | 2-1/4 | 757.2-**-H                         |                       |      |      |       |
|       |        |     | 60,3                 |       | 760.3-**-H                         |                       |      |      |       |
|       |        |     | 63,5                 | 2-1/2 | 763.5-**-H                         | 121                   | 94   | 92   | 30    |
| 7     | 7      |     | 70                   | 2-3/4 | 770-**-H                           | 4.76                  | 3.70 | 3.62 | 1.18  |
|       |        |     | 73                   |       | 773-**-H                           |                       |      |      |       |
|       |        |     | 76,1                 | 3     | 776.1-**-H                         |                       |      |      |       |
|       |        |     | 88,9                 |       | 888.9-**-H                         | 147                   | 120  | 116  | 30    |
|       |        |     | 102                  | 4     | 8102L-**-H                         | 5.79                  | 4.72 | 4.57 | 1.18  |
|       |        |     |                      |       |                                    |                       |      |      |       |

Additional outside diameters are available upon request. Please contact STAUFF for further information.

### Ordering Codes

#### Clamp Body

Clamp Body, STAUFF Group 1A

\*1\*06-\*PP-H

\*1\*06A-\*PP-H

One clamp body is consisting of two clamp halves.

\* STAUFF Group

1

\* Exact outside diameter Ø D1 (mm)

06

\* Material code (see below)

PP-H

### Standard Materials



#### Polypropylene

Colour: Green

Material code: **PP-H**



#### Polypropylene

Colour: Black

Material code: **PP-H-BK**



#### Polyamide

Colour: Black

Material code: **PA-H**



#### Thermoplastic Elastomer (87 Shore-A)

Colour: Black

Material code: **SA-H**

See pages 154 / 155 for material properties and technical information.

### Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

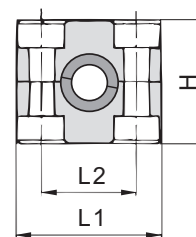
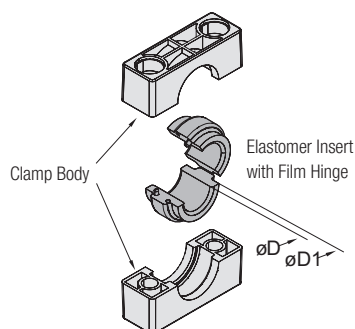
See pages 156 / 157 for material properties and technical information.

### Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of hoses and cables
- Chamfered edges avoid damaging of the hoses and cables
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions



## Clamp Body with Elastomer Insert Type RI



### Ordering Codes

#### Clamp Assembly

**\*4\*06-\*PP-R**

One assembly is consisting of one clamp body and one insert.

- \* STAUFF Group **4**
- \* Exact outside diameter Ø D (mm) **06**
- \* Material code (see below) **PP-R**

#### Clamp Body

**\*4-\*PP-R**

One clamp body is consisting of two clamp halves.

- \* STAUFF Group **4**
- \* Material code (see below) **PP-R**

#### Elastomer Insert

**\*RI-\*06-\*4/4S**

- \* Elastomer Insert **RI**
- \* Exact outside diameter Ø D (mm) **06**
- \* STAUFF Group 4 (Standard) and 4S (Heavy) **4/4S**
- 6 (Standard) and 5S (Heavy) **6/5S**

### Standard Materials



#### Polypropylene

Colour: Black  
Material code: **PP-R**



#### Polyamide

Colour: Black  
Material code: **PA-R**



#### Elastomer Insert

**Thermoplastic Elastomer** (73 Shore-A)  
Colour: Black

See pages 154 / 155 for material properties and technical information.

### Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

### Product Features

- Proven, tested and trusted product in various markets
- Either for the extra vibration/noise reducing installation of pipes and tubes or the extra gentle installation of hoses and cables
- Available for all commonly used outside diameters
- Excellent weathering resistance, even under extreme conditions

| Group | STAUFF | DIN | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D |       | Ordering Codes<br>Clamp Assembly<br>(Clamp Body +<br>Insert) | Ordering Codes (**R = Clamp Body Material)<br>Clamp Body<br>(2 Clamp Halves) |            | Ordering Codes<br>Insert * |            | Dimensions<br>(mm / in) |              |            |   |       |
|-------|--------|-----|-----------------------------------------------|-------|--------------------------------------------------------------|------------------------------------------------------------------------------|------------|----------------------------|------------|-------------------------|--------------|------------|---|-------|
|       |        |     | (mm)                                          | (in)  |                                                              |                                                                              |            |                            |            | Ø D1                    | L1           | L2         | H | Width |
| 4     | 4      | 4   | 6                                             |       | 406-**-R                                                     | 4-**-R                                                                       | RI-06-4/4S | 25<br>.98                  | 59<br>2.32 | 40<br>1.57              | 41,2<br>1.62 | 30<br>1.18 |   |       |
|       |        |     | 8                                             | 5/16  | 408-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 10                                            |       | 410-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 12                                            |       | 412-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 12,7                                          | 1/2   | 412.7-**-R                                                   |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 14                                            |       | 414-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 15                                            |       | 415-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 16                                            | 5/8   | 416-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 17,2                                          |       | 417.2-**-R                                                   |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 18                                            |       | 418-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 19                                            | 3/4   | 419-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
| 6     | 6      | 6   | 20                                            |       | 620-**-R                                                     | 6-**-R                                                                       | RI-20-6/5S | 38<br>1.50                 | 86<br>3.39 | 66<br>2.60              | 64,5<br>2.54 | 30<br>1.18 |   |       |
|       |        |     | 21,3                                          |       | 621.3-**-R                                                   |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 22                                            | 7/8   | 622-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 25                                            |       | 625-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 26,9                                          |       | 626.9-**-R                                                   |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 28                                            |       | 628-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 30                                            |       | 630-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |
|       |        |     | 32                                            | 1-1/4 | 632-**-R                                                     |                                                                              |            |                            |            |                         |              |            |   |       |

\* Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 4 also fit into Heavy Series clamp bodies, STAUFF Group 4S. Elastomer Inserts for Standard Series clamp bodies, STAUFF Group 6 also fit into Heavy Series clamp bodies, STAUFF Group 5S.

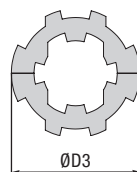
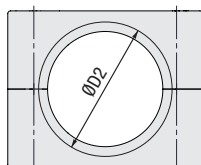
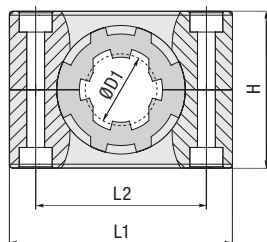
Additional outside diameters are available upon request. Please contact STAUFF for further information.





## Noise Reduction Clamp Type NRC

A



| Group | STAUFF | DIN | Outside Diameter<br>Pipe / Tube<br>Ø D1<br>(mm) (in) | Ordering Codes<br>Clamp Assembly<br>(Clamp Body +<br>NRC Insert) | Clamp Body<br>(2 Clamp Halves) | NRC Insert<br>(2 Insert Halves) | Dimensions<br>(mm/in) |            |            |            |              |            |
|-------|--------|-----|------------------------------------------------------|------------------------------------------------------------------|--------------------------------|---------------------------------|-----------------------|------------|------------|------------|--------------|------------|
|       |        |     |                                                      |                                                                  |                                |                                 | ØD2                   | ØD3        | L1         | L2         | H            | Width      |
| 2     | 2      | 2   | 6                                                    | 206-PP-NRC                                                       | 2-PP-NRC                       | RI-NRC-6-2                      | 25<br>.98             | 26<br>1.02 | 42<br>1.65 | 26<br>1.02 | 32<br>1.26   | 30<br>1.18 |
|       |        |     | 8                                                    | 208-PP-NRC                                                       |                                | RI-NRC-8-2                      |                       |            |            |            |              |            |
|       |        |     | 10                                                   | 210-PP-NRC                                                       |                                | RI-NRC-10-2                     |                       |            |            |            |              |            |
|       |        |     | 12                                                   | 212-PP-NRC                                                       |                                | RI-NRC-12-2                     |                       |            |            |            |              |            |
|       |        |     | 12,7                                                 | 212.7-PP-NRC                                                     |                                | RI-NRC-12.7-2                   |                       |            |            |            |              |            |
| 3     | 3      | 3   | 14                                                   | 314-PP-NRC                                                       | 3-PP-NRC                       | RI-NRC-14-3                     | 28<br>1.10            | 29<br>1.14 | 50<br>1.97 | 33<br>1.30 | 35,5<br>1.40 | 30<br>1.18 |
|       |        |     | 15                                                   | 315-PP-NRC                                                       |                                | RI-NRC-15-3                     |                       |            |            |            |              |            |
|       |        |     | 16                                                   | 316-PP-NRC                                                       |                                | RI-NRC-16-3                     |                       |            |            |            |              |            |
| 4     | 4      | 4   | 18                                                   | 418-PP-NRC                                                       | 4-PP-NRC                       | RI-NRC-18-4                     | 34<br>1.34            | 35<br>1.38 | 59<br>2.32 | 40<br>1.57 | 41,5<br>1.63 | 30<br>1.18 |
|       |        |     | 20                                                   | 420-PP-NRC                                                       |                                | RI-NRC-20-4                     |                       |            |            |            |              |            |
| 5     | 5      | 5   | 21,3                                                 | 521.3-PP-NRC                                                     | 5-PP-NRC                       | RI-NRC-21.3-5                   | 49<br>1.93            | 50<br>1.97 | 71<br>2.80 | 52<br>2.05 | 56,5<br>2.22 | 30<br>1.18 |
|       |        |     | 22                                                   | 522-PP-NRC                                                       |                                | RI-NRC-22-5                     |                       |            |            |            |              |            |
|       |        |     | 25                                                   | 525-PP-NRC                                                       |                                | RI-NRC-25-5                     |                       |            |            |            |              |            |
|       |        |     | 26,9                                                 | 526.9-PP-NRC                                                     |                                | RI-NRC-26.9-5                   |                       |            |            |            |              |            |
|       |        |     | 28                                                   | 528-PP-NRC                                                       |                                | RI-NRC-28-5                     |                       |            |            |            |              |            |
|       |        |     | 30                                                   | 530-PP-NRC                                                       |                                | RI-NRC-30-5                     |                       |            |            |            |              |            |
| 6     | 6      | 6   | 32                                                   | 532-PP-NRC                                                       | 6-PP-NRC                       | RI-NRC-32-5                     | 60<br>2.36            | 61<br>2.40 | 86<br>3.39 | 66<br>2.60 | 64,5<br>2.54 | 30<br>1.18 |
|       |        |     | 33,7                                                 | 633.7-PP-NRC                                                     |                                | RI-NRC-33.7-6                   |                       |            |            |            |              |            |
|       |        |     | 35                                                   | 635-PP-NRC                                                       |                                | RI-NRC-35-6                     |                       |            |            |            |              |            |
|       |        |     | 38                                                   | 638-PP-NRC                                                       |                                | RI-NRC-38-6                     |                       |            |            |            |              |            |
|       |        |     | 40                                                   | 640-PP-NRC                                                       |                                | RI-NRC-40-6                     |                       |            |            |            |              |            |
|       |        |     | 42                                                   | 642-PP-NRC                                                       |                                | RI-NRC-42-6                     |                       |            |            |            |              |            |

Additional outside diameters are available upon request. Please contact STAUFF for further information.

### Product Features

- Designed for the noise and vibration reducing installation of pipes and tubes
- Suitable for the most common outside diameters from 6 to 42 mm and from ¼ to 1 ½ inch respectively
- Working principle based on a specially shaped, two-part elastomer insert, which mechanically absorbs vibration in the pipe or tube and as a result reduces noises arising to a minimum
- Elastomer insert is in particular distinguished by how little of its surface is in contact with the pipe or tube as well as with the clamp body
- Light tension of the elastomer insert in mounted condition provides the necessary clamping force
- Tongue-groove contour of the elastomer insert and the clamp body (which is reversed and thus diverges from standard DIN 3015 clamps with elastomer insert) enables the system to be used for the maximum range of outside diameters per clamp size, which contributes to flexibility, versatility and optimisation of the required installation space

### Ordering Codes

#### Clamp Assembly \*2\*12-\*PP-NRC

One assembly is consisting of one clamp body and one insert.

- \* STAUFF Group 2
- \* Exact outside diameter Ø D1 (mm) 12
- \* Material code (see below) PP-NRC

#### NRC Clamp Body \*2-\*PP-NRC

One NRC clamp body is consisting of two clamp halves.

- \* STAUFF Group 2
- \* Material code (see below) PP-NRC

#### NRC Elastomer Insert \*RI-NRC-\*12-\*2

One NRC elastomer insert is consisting of two insert halves.

- \* NRC Elastomer Insert RI-NRC
- \* Exact outside diameter ØD1 (mm) 12
- \* STAUFF Group 2

### Standard Materials



#### Polypropylene

Colour: Black

Material code: PP-NRC



#### Elastomer Insert

Thermoplastic Elastomer (73 Shore-A)

Colour: Black

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

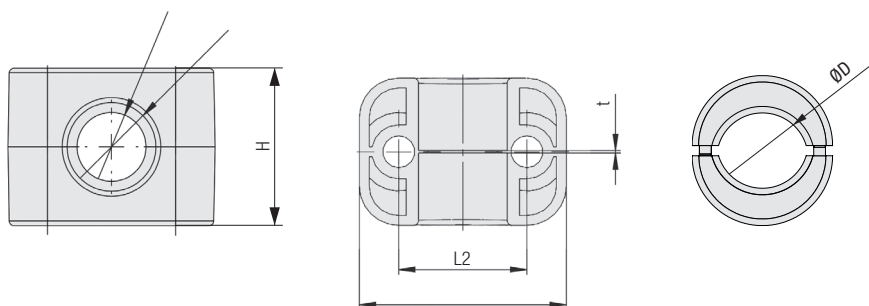
See pages 156 / 157 for material properties and technical information.



## Clamp Body for Conduit Hoses and Cable Inserts

### Type CHC

A



### Ordering Codes

#### Clamp Assembly

#### \*3\*17-\*10/14-\*PA-CHC\*SA-V0

One assembly is consisting of one clamp body and one insert.  
(consisting of two halves).

|                                        |        |
|----------------------------------------|--------|
| * STAUFF Group                         | 3      |
| * Nominal Size of the Conduit Hose     | 17     |
| * Diameter Range Cable ØD (mm)         | 10/14  |
| * Material code clamp body (see below) | PA-CHC |
| * Material code insert (see below)     | SA-V0  |

#### CHC Clamp Body

#### \*3\*17-\*PA-CHC

One CHC Clamp Body is consisting of two clamp halves.

|                                        |        |
|----------------------------------------|--------|
| * STAUFF Group                         | 3      |
| * Nominal Size of the Conduit Hose     | 17     |
| * Material code clamp body (see below) | PA-CHC |

#### CHC Elastomer Insert

#### \*RI-CHC-\*10/14\*3\*SA-V0

One CHC Elastomer Insert is consisting of two insert halves.

|                                    |        |
|------------------------------------|--------|
| * CHC Elastomer insert             | RI-CHC |
| * Diameter Range Cable ØD (mm)     | 10/14  |
| * STAUFF Group                     | 3      |
| * Material code insert (see below) | SA-V0  |

| Group  | Nominal Size | ØD (mm/in)   | Ordering Codes (* = Material) |                                      |                       | Dimensions (mm/in)    |      |      |     |      |      |      |       |
|--------|--------------|--------------|-------------------------------|--------------------------------------|-----------------------|-----------------------|------|------|-----|------|------|------|-------|
| STAUFF | DIN          | Conduit Hose | Cable                         | Clamp Assembly (Clamp Body + Insert) | Clamp Body (2 Halves) | CHC-Insert (2 Halves) | ØD1  | ØD2  | t   | L1   | L2   | H    | Width |
| 2      | 2            | 10           | 6 ... 8                       |                                      | 210-*                 |                       | 13   | 11   | 0,5 | 42   | 26   | 32   | 30    |
|        |              |              | .24 ... .31                   |                                      |                       |                       | .51  | .43  | .02 | 1.65 | 1.02 | 1.26 | 1.18  |
|        |              | 12           | 8 ... 10                      |                                      | 212-*                 |                       | 16   | 13,5 | 0,5 | 42   | 26   | 32   | 30    |
|        |              |              | .31 ... .39                   |                                      |                       |                       | .63  | .53  | .02 | 1.65 | 1.02 | 1.26 | 1.18  |
| 3      | 3            | 17           | 7 ... 10                      | 317-7/10-*-*                         | 317-*                 | RI-CHC-7/10-3-*       | 21,5 | 18   | 0,7 | 50   | 33   | 35,5 | 30    |
|        |              |              | .28 ... .39                   |                                      |                       |                       | .85  | .71  | .03 | 1.97 | 1.30 | 1.40 | 1.18  |
|        |              |              | 10 ... 14                     | 317-10/14-*-*                        | 317-*                 | RI-CHC-10/14-3-*      |      |      |     |      |      |      |       |
|        |              |              | .39 ... .55                   |                                      |                       |                       |      |      |     |      |      |      |       |
| 4      | 4            | 23           | 14 ... 18                     | 423-14/18-*-*                        | 423-*                 | RI-CHC-14/18-4-*      | 29   | 24,5 | 0,7 | 59   | 40   | 41,5 | 30    |
|        |              |              | .55 ... .71                   |                                      |                       |                       | 1.14 | .96  | .03 | 2.32 | 1.57 | 1.63 | 1.18  |
|        |              |              | 18 ... 20                     |                                      | 423-*                 |                       |      |      |     |      |      |      |       |
|        |              |              | .71 ... .79                   |                                      |                       |                       |      |      |     |      |      |      |       |
| 5      | 5            | 29           | 20 ... 26,9                   |                                      | 529-*                 |                       | 35   | 30,5 | 1,0 | 71   | 52   | 56,5 | 30    |
|        |              |              | .79 ... 1.06                  |                                      |                       |                       | 1.38 | 1.20 | .04 | 2.80 | 2.05 | 2.22 | 1.18  |
|        |              | 36           | 26,9 ... 33,7                 |                                      | 536-*                 |                       | 43   | 38,5 | 1,0 | 71   | 52   | 56,5 | 30    |
|        |              |              | 1.06 ... 1.33                 |                                      |                       |                       | 1.69 | 1.52 | .04 | 2.80 | 2.05 | 2.22 | 1.18  |
| 6      | 6            | 48           | 33,7 ... 42                   |                                      | 648-*                 |                       | 55   | 49,5 | 1,0 | 86   | 66   | 64,5 | 30    |
|        |              |              | 1.33 ... 1.65                 |                                      |                       |                       | 2.17 | 1.95 | .51 | 3.39 | 2.60 | 2.54 | 1.18  |

Additional outside diameters are available upon request. Please contact STAUFF for further information.

### Product Features

- Design of the inside surface of the clamp body prevents corrugated conduit hoses from sliding
- Elastomer Insert for the safe and damage-free installation of single cables as an option
- Chamfered edges avoid damaging of the conduit hoses
- Available for all commonly used nominal sizes
- Excellent weathering resistance, even under extreme conditions

### Materials



**Polyamide**  
Colour: Black  
Material code: **PA-CHC**



**fire-proof clamp body material made of Polyamide**  
Colour: Black  
Material code: **PA-V0-CHC-BK**



**Elastomer Insert**  
**Thermoplastic Elastomer** (73 Shore-A)  
Colour: Black  
Material code: **SA**



**Elastomer Insert**  
**fire-proof clamp body material made of Thermoplastic Elastomer** (86 Shore-A)  
Colour: White  
Material code: **SA-V0**

See pages 154 - 157 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

### Recommended Bolt Lengths (Socket Cap Screw IS)

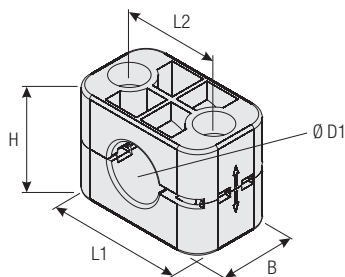
for use without Cover Plate DP, assembly with Weld Plate SP, Hexagon Rail Nut SM and Channel Rail Adaptor CRA.

| Group | STAUFF | DIN | Metric ISO thread | Unified coarse (UNC) thread |
|-------|--------|-----|-------------------|-----------------------------|
| 2     | 2      |     | M6 x 25           | 1/4-20 UNC x 1              |
| 3     | 3      |     | M6 x 30           | 1/4-20 UNC x 1-1/8          |
| 4     | 4      |     | M6 x 35           | 1/4-20 UNC x 1-3/8          |
| 5     | 5      |     | M6 x 50           | 1/4-20 UNC x 2              |
| 6     | 6      |     | M6 x 60           | 1/4-20 UNC x 2-1/2          |

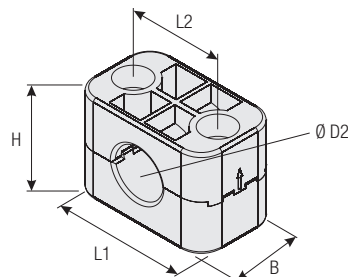
See page 30 for further information on ordering.







For Use with Regular Hose


For Use with Compact Hose  
(Upper Clamp Half rotated by 180°)

| Group | STAUFF | DIN | Outside Diameter<br>Regular Hose |      | Outside Diameter<br>Compact Hose |      | Ordering Codes<br>(2 Clamp Halves) | Dimensions (mm/in) |            |      |      |      |
|-------|--------|-----|----------------------------------|------|----------------------------------|------|------------------------------------|--------------------|------------|------|------|------|
|       |        |     | Ø D1<br>(mm)                     | (in) | Ø D2<br>(mm)                     | (in) |                                    | (**-* = Material)  | L1         | L2   | H    |      |
| 3     |        | 3   | 19                               | .75  | 17,4                             | .69  | 319-**-*-CC-BK                     | 50<br>1.97         | 33<br>1.30 | 35,5 | 34   | 30   |
|       |        |     | 22,2                             | .87  | 20,6                             | .81  | 322.2-**-*-CC-BK                   |                    |            | 1.40 | 1.34 | 1.18 |
|       |        |     | 25,4                             | 1.00 | 23,7                             | .93  | 325.4-**-*-CC-BK                   |                    |            |      |      |      |

Additional outside diameters are available upon request. Please contact STAUFF for further information.

## Product Features

- Only one clamp body required for two different hose diameters (compact hose + regular hose)
- Rotate upper clamp half by 180° and use clamp body to fasten compact hoses instead of regular hoses
- Available for three different combinations of outside hose diameters
- Outer dimensions according to DIN 3015, Part 1
- Effective cost reduction due to lower inventories

## Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

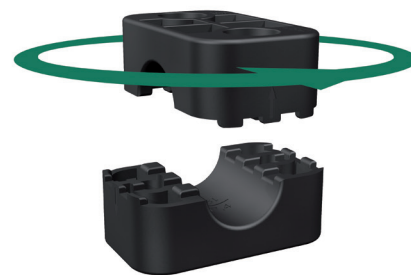
See pages 156 / 157 for material properties and technical information.

## Standard Materials

**Polypropylene**  
Colour: Black  
Material code: **PP-H-CC-BK**

See pages 154 / 155 for material properties and technical information.

## Clamp Body ■ Compact Design Type CC



## Ordering Codes

**Clamp Body** **\*3\*19-\*PP-H-CC-BK**

One clamp body is consisting of two clamp halves.

\* STAUFF Group **3**  
\* Outside diameter Ø D1 (mm) of regular hose **19**  
\* Material code (see below) **PP-H-CC-BK**

## Ordering Codes

One clamp body is consisting of two clamp halves.

**Clamp Body** **540-40-PP-VK**  
Rectangular design with a square of 40 mm x 40 mm / 1.57 in x 1.57 in

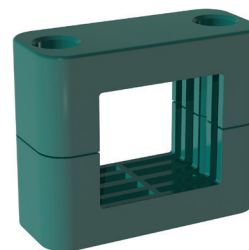
**Clamp Body** **540-36-PP-VK**  
Rectangular design with a square of 40 mm x 36 mm / 1.57 in x 1.42 in

Please replace PP by PA to order a clamp body made of Polyamide instead of Polypropylene.

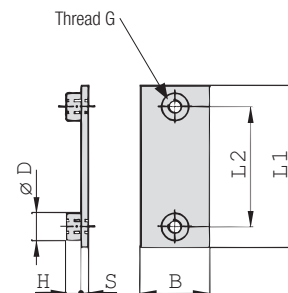
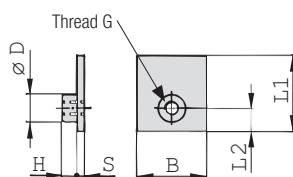
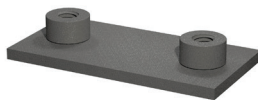
## Product Features

- Outer dimensions of clamp body according to Standard Series, STAUFF Group 5
- For proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm / 1.57 in x 1.57 in or 40 mm x 36 mm / 1.57 in x 1.42 in
- For proximity switches according to DIN EN 60947-5-2 or similar, round construction, please use Standard Series clamp body, STAUFF Group 4, with the diameter required (e.g. 430-PP)
- Use with Hexagon Rail Nut SM and Mounting Rail TS to provide axial and horizontal position adjustment by loosening the bolts

## Clamp Body ■ Rectangular Design Type VK



## Single Weld Plate Type SP



STAUFF Group 1

STAUFF Group 1A to 8

### Ordering Codes

#### Weld Plate

\*SP-\*1-\*M-\*W2

\* Single Weld Plate

SP

\* STAUFF Group

1

\* Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

\* Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

W5

Stainless Steel V4A

W5

1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

Aluminium EN AW-6060

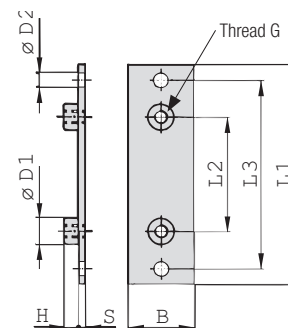
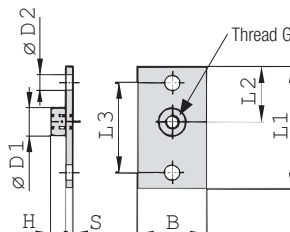
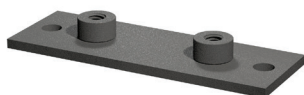
W85

(Dimension S: 5 mm / .20 in)

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G | L1   | L2   | B    | S   | H   | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------------------|------|------|------|-----|-----|-----|--------------------------------------|
| 1               | 0   | M6                             | 31,5 | 10   | 30   | 3   | 6,5 | 12  | SP-1-M-W2                            |
|                 |     | 1/4-20 UNC                     | 1.24 | 0.39 | 1.18 | .12 | .26 | .47 | SP-1-U-W2                            |
| 1A              | 1   | M6                             | 36   | 20   | 30   | 3   | 6,5 | 12  | SP-1A-M-W2                           |
|                 |     | 1/4-20 UNC                     | 1.42 | 0.79 | 1.18 | .12 | .26 | .47 | SP-1A-U-W2                           |
| 2               | 2   | M6                             | 42   | 26   | 30   | 3   | 6,5 | 12  | SP-2-M-W2                            |
|                 |     | 1/4-20 UNC                     | 1.65 | 1.02 | 1.18 | .12 | .26 | .47 | SP-2-U-W2                            |
| 3               | 3   | M6                             | 50   | 33   | 30   | 3   | 6,5 | 12  | SP-3-M-W2                            |
|                 |     | 1/4-20 UNC                     | 1.97 | 1.30 | 1.18 | .12 | .26 | .47 | SP-3-U-W2                            |
| 4               | 4   | M6                             | 60   | 40   | 30   | 3   | 6,5 | 12  | SP-4-M-W2                            |
|                 |     | 1/4-20 UNC                     | 2.36 | 1.57 | 1.18 | .12 | .26 | .47 | SP-4-U-W2                            |
| 5               | 5   | M6                             | 71   | 52   | 30   | 3   | 6,5 | 12  | SP-5-M-W2                            |
|                 |     | 1/4-20 UNC                     | 2.80 | 2.05 | 1.18 | .12 | .26 | .47 | SP-5-U-W2                            |
| 6               | 6   | M6                             | 88   | 66   | 30   | 3   | 6,5 | 12  | SP-6-M-W2                            |
|                 |     | 1/4-20 UNC                     | 3.46 | 2.60 | 1.18 | .12 | .26 | .47 | SP-6-U-W2                            |
| 7               | 7   | M6                             | 122  | 94   | 30   | 5   | 6,5 | 12  | SP-7-M-W2                            |
|                 |     | 1/4-20 UNC                     | 4.80 | 3.70 | 1.18 | .20 | .26 | .47 | SP-7-U-W2                            |
| 8               | 8   | M6                             | 148  | 120  | 30   | 5   | 6,5 | 12  | SP-8-M-W2                            |
|                 |     | 1/4-20 UNC                     | 5.83 | 4.72 | 1.18 | .20 | .26 | .47 | SP-8-U-W2                            |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Elongated Weld Plate Type SPV



STAUFF Group 1

STAUFF Group 1A to 8

### Ordering Codes

#### Weld Plate

\*SPV-\*1-\*M-\*W2

\* Elongated Weld Plate

SPV

\* STAUFF Group

1

\* Thread code

Metric ISO thread

M

Unified coarse (UNC) thread

U

\* Material code

Carbon Steel, phosphated

W2

Carbon Steel, zinc/nickel-plated

W3

Stainless Steel V2A

W4

1.4301 / 1.4305 (AISI 304 / 303)

W5

Stainless Steel V4A

W5

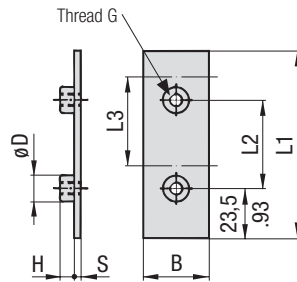
1.4401 / 1.4571 (AISI 316 / 316 Ti)

W5

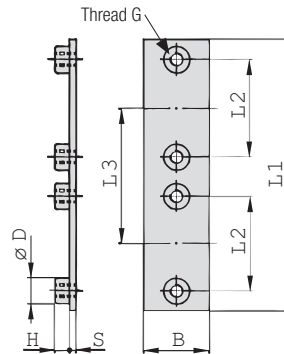
| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G | L1   | L2   | L3   | B    | S   | H   | ØD1 | ØD2 | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------------------|------|------|------|------|-----|-----|-----|-----|--------------------------------------|
| 1               | 0   | M6                             | 58   | 24,5 | 44   | 30   | 3   | 6,5 | 12  | 6,5 | SPV-1-M-W2                           |
|                 |     | 1/4-20 UNC                     | 2.28 | .96  | 1.73 | 1.18 | .12 | .26 | .47 | .26 | SPV-1-U-W2                           |
| 1A              | 1   | M6                             | 64   | 20   | 50   | 30   | 3   | 6,5 | 12  | 6,5 | SPV-1A-M-W2                          |
|                 |     | 1/4-20 UNC                     | 2.52 | .79  | 1.97 | 1.18 | .12 | .26 | .47 | .26 | SPV-1A-U-W2                          |
| 2               | 2   | M6                             | 70   | 26   | 56   | 30   | 3   | 6,5 | 12  | 6,5 | SPV-2-M-W2                           |
|                 |     | 1/4-20 UNC                     | 2.76 | 1.02 | 2.20 | 1.18 | .12 | .26 | .47 | .26 | SPV-2-U-W2                           |
| 3               | 3   | M6                             | 78   | 33   | 64   | 30   | 3   | 6,5 | 12  | 6,5 | SPV-3-M-W2                           |
|                 |     | 1/4-20 UNC                     | 3.07 | 1.30 | 2.52 | 1.18 | .12 | .26 | .47 | .26 | SPV-3-U-W2                           |
| 4               | 4   | M6                             | 87   | 40   | 73   | 30   | 3   | 6,5 | 12  | 6,5 | SPV-4-M-W2                           |
|                 |     | 1/4-20 UNC                     | 3.43 | 1.57 | 2.87 | 1.18 | .12 | .26 | .47 | .26 | SPV-4-U-W2                           |
| 5               | 5   | M6                             | 100  | 52   | 86   | 30   | 3   | 6,5 | 12  | 6,5 | SPV-5-M-W2                           |
|                 |     | 1/4-20 UNC                     | 3.94 | 2.05 | 3.39 | 1.18 | .12 | .26 | .47 | .26 | SPV-5-U-W2                           |
| 6               | 6   | M6                             | 115  | 66   | 100  | 30   | 3   | 6,5 | 12  | 6,5 | SPV-6-M-W2                           |
|                 |     | 1/4-20 UNC                     | 4.53 | 2.60 | 3.94 | 1.18 | .12 | .26 | .47 | .26 | SPV-6-U-W2                           |
| 7               | 7   | M6                             | 150  | 94   | 136  | 30   | 5   | 6,5 | 12  | 6,5 | SPV-7-M-W2                           |
|                 |     | 1/4-20 UNC                     | 5.91 | 3.70 | 5.35 | 1.18 | .20 | .26 | .47 | .26 | SPV-7-U-W2                           |
| 8               | 8   | M6                             | 178  | 120  | 162  | 30   | 5   | 6,5 | 12  | 6,5 | SPV-8-M-W2                           |
|                 |     | 1/4-20 UNC                     | 7.01 | 4.72 | 6.38 | 1.18 | .20 | .26 | .47 | .26 | SPV-8-U-W2                           |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



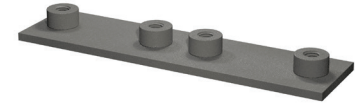


STAUFF Group 1



STAUFF Group 1A to 8

## Twin Weld Plate for 2 Clamp Bodies Type DSP



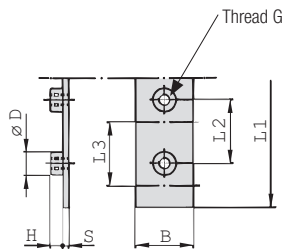
| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G | L1   | L2   | L3   | B    | S   | H   | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------------------|------|------|------|------|-----|-----|-----|--------------------------------------|
| 1               | 0   | M6                             | 87   | 40   | 40   | 30   | 3   | 6.5 | 12  | DSP-1-40-M-W2                        |
|                 |     | 1/4-20 UNC                     | 3.43 | 1.57 | 1.57 | 1.18 | .12 | .26 | .47 | DSP-1-40-U-W2                        |
| 1A              | 1   | M6                             | 77   | 20   | 37   | 30   | 3   | 6.5 | 12  | DSP-1A-37-M-W2                       |
|                 |     | 1/4-20 UNC                     | 3.03 | .79  | 1.46 | 1.18 | .12 | .26 | .47 | DSP-1A-37-U-W2                       |
| 2               | 2   | M6                             | 86   | 26   | 44   | 30   | 3   | 6.5 | 12  | DSP-2-44-M-W2                        |
|                 |     | 1/4-20 UNC                     | 3.39 | 1.02 | 1.73 | 1.18 | .12 | .26 | .47 | DSP-2-44-U-W2                        |
| 3               | 3   | M6                             | 102  | 33   | 52   | 30   | 3   | 6.5 | 12  | DSP-3-52-M-W2                        |
|                 |     | 1/4-20 UNC                     | 4.02 | 1.30 | 2.05 | 1.18 | .12 | .26 | .47 | DSP-3-52-U-W2                        |
| 4               | 4   | M6                             | 120  | 40   | 60   | 30   | 3   | 6.5 | 12  | DSP-4-60-M-W2                        |
|                 |     | 1/4-20 UNC                     | 4.72 | 1.57 | 2.36 | 1.18 | .12 | .26 | .47 | DSP-4-60-U-W2                        |
| 5               | 5   | M6                             | 145  | 52   | 75   | 30   | 3   | 6.5 | 12  | DSP-5-75-M-W2                        |
|                 |     | 1/4-20 UNC                     | 5.71 | 2.05 | 2.95 | 1.18 | .12 | .26 | .47 | DSP-5-75-U-W2                        |
| 6               | 6   | M6                             | 178  | 66   | 90   | 30   | 3   | 6.5 | 12  | DSP-6-90-M-W2                        |
|                 |     | 1/4-20 UNC                     | 7.01 | 2.60 | 3.54 | 1.18 | .12 | .26 | .47 | DSP-6-90-U-W2                        |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

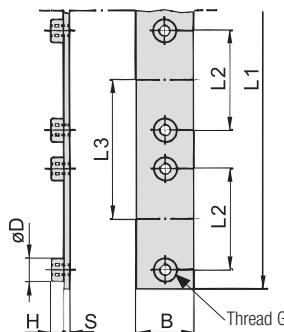
## Ordering Codes

### Weld Plate \*DSP-\*1-\*40-\*M-\*W2

|                                      |                                                              |
|--------------------------------------|--------------------------------------------------------------|
| * Twin Weld Plate for 2 Clamp Bodies | DSP                                                          |
| * STAUFF Group                       | 1                                                            |
| * Pipe center spacing L3 (mm)        | 40                                                           |
| * Thread code                        | Metric ISO thread<br>Unified coarse (UNC) thread             |
|                                      | M<br>U                                                       |
| * Material code                      | Carbon Steel, phosphated<br>Carbon Steel, zinc/nickel-plated |
|                                      | W2<br>W3                                                     |
|                                      | Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)      |
|                                      | Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)   |
|                                      | W4<br>W5                                                     |

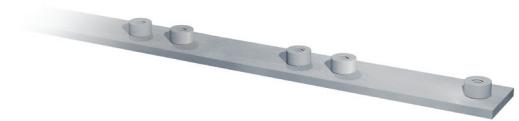


STAUFF Group 1



STAUFF Group 1A to 8

## Group Weld Plate for 5 or 10 Clamp Bodies Type RAP



| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G | L1    | L2   | L3   | B    | S   | H   | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------------------|-------|------|------|------|-----|-----|-----|--------------------------------------|
| 1               | 0   | M6                             | 314   | 31   | 31   | 30   | 4   | 6.5 | 12  | RAP-1-31-10-M-W1                     |
|                 |     | 1/4-20 UNC                     | 12.36 | 1.22 | 1.22 | 1.18 | .16 | .26 | .47 | RAP-1-31-10-U-W1                     |
| 1A              | 1   | M6                             | 373   | 20   | 37   | 30   | 4   | 6.5 | 12  | RAP-1A-37-10-M-W1                    |
|                 |     | 1/4-20 UNC                     | 14.69 | .79  | 1.46 | 1.18 | .16 | .26 | .47 | RAP-1A-37-10-U-W1                    |
| 2               | 2   | M6                             | 442   | 26   | 44   | 30   | 4   | 6.5 | 12  | RAP-2-44-10-M-W1                     |
|                 |     | 1/4-20 UNC                     | 17.40 | 1.02 | 1.73 | 1.18 | .16 | .26 | .47 | RAP-2-44-10-U-W1                     |
| 3               | 3   | M6                             | 521   | 33   | 52   | 30   | 4   | 6.5 | 12  | RAP-3-52-10-M-W1                     |
|                 |     | 1/4-20 UNC                     | 20.51 | 1.30 | 2.05 | 1.18 | .16 | .26 | .47 | RAP-3-52-10-U-W1                     |
| 4               | 4   | M6                             | 300   | 40   | 60   | 30   | 4   | 6.5 | 12  | RAP-4-60-5-M-W1                      |
|                 |     | 1/4-20 UNC                     | 11.81 | 1.57 | 2.36 | 1.18 | .16 | .26 | .47 | RAP-4-60-5-U-W1                      |
| 5               | 5   | M6                             | 378   | 52   | 75   | 30   | 4   | 6.5 | 12  | RAP-5-75-5-M-W1                      |
|                 |     | 1/4-20 UNC                     | 14.88 | 2.05 | 2.95 | 1.18 | .16 | .26 | .47 | RAP-5-75-5-U-W1                      |
| 6               | 6   | M6                             | 450   | 66   | 90   | 30   | 4   | 6.5 | 12  | RAP-6-90-5-M-W1                      |
|                 |     | 1/4-20 UNC                     | 17.72 | 2.60 | 3.54 | 1.18 | .16 | .26 | .47 | RAP-6-90-5-U-W1                      |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

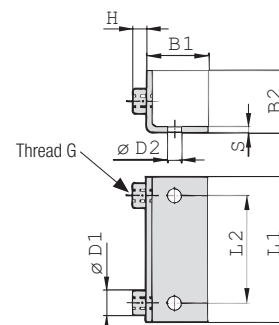
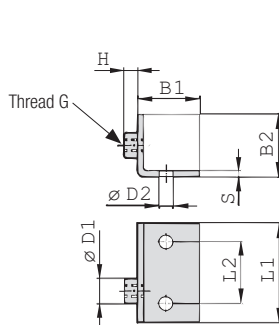
## Ordering Codes

### Weld Plate \*RAP-\*1-\*31-\*10-\*M-\*W1

|                                             |                                                              |
|---------------------------------------------|--------------------------------------------------------------|
| * Group Weld Plate for 5 or 10 Clamp Bodies | RAP                                                          |
| * STAUFF Group                              | 1                                                            |
| * Pipe center spacing L3 (mm)               | 31                                                           |
| * Number of clamps                          | 10                                                           |
| * Thread code                               | Metric ISO thread<br>Unified coarse (UNC) thread             |
|                                             | M<br>U                                                       |
| * Material code                             | Carbon Steel, phosphated<br>Carbon Steel, zinc/nickel-plated |
|                                             | W2<br>W3                                                     |
|                                             | Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)      |
|                                             | Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)   |
|                                             | W4<br>W5                                                     |



## Angled Weld Plate Type WSP



STAUFF Group 1

STAUFF Group 1A to 6

### Ordering Codes

#### Weld Plate

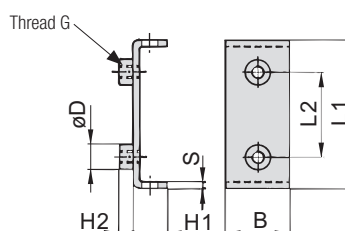
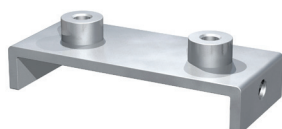
**\*WSP-\*1-\*M-\*W1**

|                     |                                     |            |
|---------------------|-------------------------------------|------------|
| * Angled Weld Plate |                                     | <b>WSP</b> |
| * STAUFF Group      |                                     | <b>1</b>   |
| * Thread code       | Metric ISO thread                   | <b>M</b>   |
|                     | Unified coarse (UNC) thread         | <b>U</b>   |
| * Material code     | Carbon Steel, zinc/nickel-plated    | <b>W3</b>  |
|                     | Stainless Steel V2A                 | <b>W4</b>  |
|                     | 1.4301 / 1.4305 (AISI 304 / 303)    |            |
|                     | Stainless Steel V4A                 | <b>W5</b>  |
|                     | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |            |

| Group<br>STAUFF | DIN | Dimensions (mm/in) | Thread G | L1   | L2   | B1   | B2   | S   | H   | ØD1 | ØD2 | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|----------|------|------|------|------|-----|-----|-----|-----|--------------------------------------|
| 1               | 0   | M6                 |          | 30   | 14   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-1-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 1.18 | .55  | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-1-U-W1                           |
| 1A              | 1   | M6                 |          | 36   | 20   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-1A-M-W1                          |
|                 |     | 1/4-20 UNC         |          | 1.26 | .79  | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-1A-U-W1                          |
| 2               | 2   | M6                 |          | 42   | 26   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-2-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 1.65 | 1.02 | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-2-U-W1                           |
| 3               | 3   | M6                 |          | 50   | 33   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-3-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 1.97 | 1.30 | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-3-U-W1                           |
| 4               | 4   | M6                 |          | 60   | 40   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-4-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 2.36 | 1.57 | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-4-U-W1                           |
| 5               | 5   | M6                 |          | 70   | 52   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-5-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 2.76 | 2.05 | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-5-U-W1                           |
| 6               | 6   | M6                 |          | 88   | 66   | 30   | 30   | 3   | 6,5 | 12  | 6,5 | WSP-6-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 3.46 | 2.60 | 1.18 | 1.18 | .12 | .26 | .47 | .26 | WSP-6-U-W1                           |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Bridge Weld Plate Type BSP



### Ordering Codes

#### Weld Plate

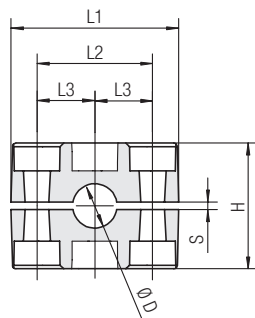
**\*BSP-\*1A-\*M-\*W1**

|                     |                                     |            |
|---------------------|-------------------------------------|------------|
| * Bridge Weld Plate |                                     | <b>BSP</b> |
| * STAUFF Group      |                                     | <b>1A</b>  |
| * Thread code       | Metric ISO thread                   | <b>M</b>   |
|                     | Unified coarse (UNC) thread         | <b>U</b>   |
| * Material code     | Carbon Steel, phosphated            | <b>W2</b>  |
|                     | Carbon Steel, zinc/nickel-plated    | <b>W3</b>  |
|                     | Stainless Steel V2A                 | <b>W4</b>  |
|                     | 1.4301 / 1.4305 (AISI 304 / 303)    |            |
|                     | Stainless Steel V4A                 | <b>W5</b>  |
|                     | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |            |

| Group<br>STAUFF | DIN | Dimensions (mm/in) | Thread G | L1   | L2   | B    | S   | H1  | H2  | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|----------|------|------|------|-----|-----|-----|-----|--------------------------------------|
| 1A              | 1   | M6                 |          | 48   | 20   | 30   | 3   | 13  | 6,5 | 12  | BSP-1A-M-W1                          |
|                 |     | 1/4-20 UNC         |          | 1.89 | .79  | 1.18 | .12 | .52 | .26 | .47 | BSP-1A-U-W1                          |
| 2               | 2   | M6                 |          | 54   | 26   | 30   | 3   | 13  | 6,5 | 12  | BSP-2-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 2.13 | 1.02 | 1.18 | .12 | .52 | .26 | .47 | BSP-2-U-W1                           |
| 3               | 3   | M6                 |          | 62   | 33   | 30   | 3   | 13  | 6,5 | 12  | BSP-3-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 2.44 | 1.30 | 1.18 | .12 | .52 | .26 | .47 | BSP-3-U-W1                           |
| 4               | 4   | M6                 |          | 71   | 40   | 30   | 3   | 13  | 6,5 | 12  | BSP-4-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 2.80 | 1.57 | 1.18 | .12 | .52 | .26 | .47 | BSP-4-U-W1                           |
| 5               | 5   | M6                 |          | 85   | 52   | 30   | 3   | 13  | 6,5 | 12  | BSP-5-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 3.35 | 2.05 | 1.18 | .12 | .52 | .26 | .47 | BSP-5-U-W1                           |
| 6               | 6   | M6                 |          | 98   | 66   | 30   | 3   | 13  | 6,5 | 12  | BSP-6-M-W1                           |
|                 |     | 1/4-20 UNC         |          | 3.86 | 2.60 | 1.18 | .12 | .52 | .26 | .47 | BSP-6-U-W1                           |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



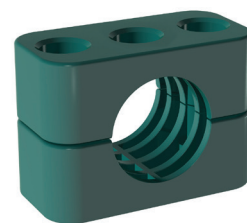


STAUFF Group 5

| Group  | Outside Diameter<br>Pipe / Tube<br>Ø D<br>(mm) (in) | Nominal Bore<br>Pipe<br>(in) | Copper Tube<br>ASTM B88<br>(in) | Ordering Codes<br>(2 Clamp<br>Halves)<br>(** = Material) | Dimensions<br>(mm/in) |      |      |      |        |       |      |
|--------|-----------------------------------------------------|------------------------------|---------------------------------|----------------------------------------------------------|-----------------------|------|------|------|--------|-------|------|
| STAUFF | DIN                                                 |                              |                                 |                                                          | L1                    | L2   | L3   | H    | S min. | Width |      |
| 5      | 5                                                   | 20                           |                                 |                                                          | 520-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 21,3                         |                                 | 1/2                                                      | 521.3-**-MGR          |      |      |      |        |       |      |
|        |                                                     | 22                           |                                 | 3/4                                                      | 522-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 23                           |                                 |                                                          | 523-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 25                           |                                 |                                                          | 525-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 26,9                         |                                 | 3/4                                                      | 526.9-**-MGR          |      |      |      |        |       |      |
|        |                                                     | 28                           |                                 |                                                          | 528-**-MGR            | 71   | 52   | 26   | 58     | 0,8   | 30   |
|        |                                                     | 30                           |                                 |                                                          | 530-**-MGR            | 2.80 | 2.05 | 1.02 | 2.28   | .03   | 1.18 |
|        |                                                     | 32                           | 1-1/4                           |                                                          | 532-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 33,7                         |                                 | 1                                                        | 533.7-**-MGR          |      |      |      |        |       |      |
|        |                                                     | 35                           |                                 | 1-1/4                                                    | 535-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 38                           | 1-1/2                           |                                                          | 538-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 40                           |                                 |                                                          | 540-**-MGR            |      |      |      |        |       |      |
|        |                                                     | 42                           | 1-1/4                           |                                                          | 542-**-MGR            |      |      |      |        |       |      |

Additional outside diameters are available upon request. Please contact STAUFF for further information.

## Clamp Body for Multi-Group Weld Plate Type MGR



### Ordering Codes

**Clamp Body** \*5\*20-\*PP-MGR

One clamp body is consisting of two clamp halves.

- \* STAUFF Group 5
- \* Exact outside diameter Ø D1 (mm) 20
- \* Material code (see below) PP-MGR

### Standard Materials



**Polypropylene**  
Colour: Green  
Material code: **PP-MGR**



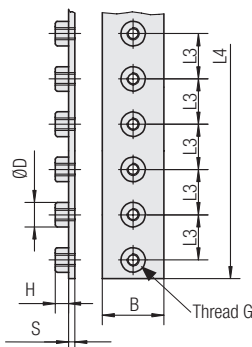
**Polyamide**  
Colour: Black  
Material code: **PA-MGR**

See pages 154 / 155 for properties and technical information.

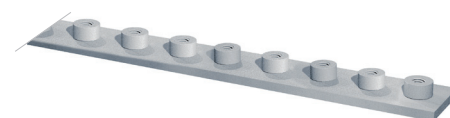
Multi-Group Weld Plates (type RAP-MGR) are designed to be used in combination with Standard Series clamp bodies, STAUFF Group 2 (regular types, see pages 14 ff.) covering a diameter range from 8 mm / .31 in to 18 mm / .71 in, as well as Standard Series clamp bodies, STAUFF Group 5 (type MGR, see above) covering a diameter range from 20 mm / .79 in to 42 mm / 1.65 in. Thus, all Standard Series metal parts (bolts, cover plates) of these groups can be used.



Multi-Group Weld Plate RAP-MGR-25-312-M-W1



## Multi-Group Weld Plate for Clamp Body Sizes 2 and 5 (Type MGR) Type RAP-MGR



| Number of<br>Weld Nuts | Dimensions (mm/in) |      |       |      |     |     |     |  | Ordering Codes<br>(Standard Options) |
|------------------------|--------------------|------|-------|------|-----|-----|-----|--|--------------------------------------|
|                        | Thread G           | L3   | L4    | B    | S   | H   | ØD  |  |                                      |
| 6                      | M6                 | 26   | 156   | 30   | 4   | 6,5 | 12  |  | RAP-MGR-25-156-M-W1                  |
|                        | 1/4-20 UNC         | 1.02 | 6.14  | 1.18 | .16 | .26 | .47 |  | RAP-MGR-25-156-U-W1                  |
| 9                      | M6                 | 26   | 234   | 30   | 4   | 6,5 | 12  |  | RAP-MGR-25-234-M-W1                  |
|                        | 1/4-20 UNC         | 1.02 | 9.21  | 1.18 | .16 | .26 | .47 |  | RAP-MGR-25-234-U-W1                  |
| 12                     | M6                 | 26   | 312   | 30   | 4   | 6,5 | 12  |  | RAP-MGR-25-312-M-W1                  |
|                        | 1/4-20 UNC         | 1.02 | 12.28 | 1.18 | .16 | .26 | .47 |  | RAP-MGR-25-312-U-W1                  |
| 15                     | M6                 | 26   | 390   | 30   | 4   | 6,5 | 12  |  | RAP-MGR-25-390-M-W1                  |
|                        | 1/4-20 UNC         | 1.02 | 15.35 | 1.18 | .16 | .26 | .47 |  | RAP-MGR-25-390-U-W1                  |
| 20                     | M6                 | 26   | 520   | 30   | 4   | 6,5 | 12  |  | RAP-MGR-25-520-M-W1                  |
|                        | 1/4-20 UNC         | 1.02 | 20.47 | 1.18 | .16 | .26 | .47 |  | RAP-MGR-25-520-U-W1                  |
| 27                     | M6                 | 26   | 700   | 30   | 4   | 6,5 | 12  |  | RAP-MGR-25-700-M-W1                  |
|                        | 1/4-20 UNC         | 1.02 | 27.55 | 1.18 | .16 | .26 | .47 |  | RAP-MGR-25-700-U-W1                  |

Cover a diameter range from 8 mm (.31 in) to 42 mm (1.65 in) with only one Group Weld Plate!

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

**Weld Plate** \*RAP-MGR-\*25-\*156-\*M-\*W1

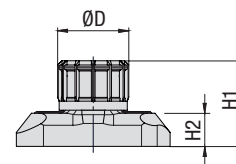
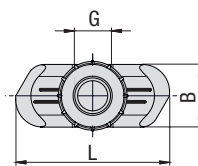
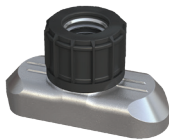
- \* Multi Group Weld Plate RAP-MGR
- \* Suitable for STAUFF Group 2 and 5 (only type MGR) 25
- \* Length L4 (mm) 156 (with 6 weld nuts) 156  
234 (with 9 weld nuts) 234  
312 (with 12 weld nuts) 312  
390 (with 15 weld nuts) 390  
520 (with 20 weld nuts) 520  
700 (with 27 weld nuts) 700
- \* Thread code Metric ISO thread M  
Unified coarse (UNC) thread U
- \* Material code Carbon Steel, uncoated W1  
Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5



## Hexagon Rail Nut

(for Use with Mounting Rail TS)

### Type SM



### Ordering Codes

#### Hexagon Rail Nut \*SM-\*1-8/1D-\*M-\*W3

|                    |                                     |               |
|--------------------|-------------------------------------|---------------|
| * Hexagon Rail Nut |                                     | <b>SM</b>     |
| * STAUFF Group     | 1 to 8 (DIN Group 0 to 8)           | <b>1-8/1D</b> |
| * Thread code      | Metric ISO thread                   | <b>M</b>      |
|                    | Unified coarse (UNC) thread         | <b>U</b>      |
| * Material code    | Carbon Steel, zinc/nickel-plated    | <b>W3</b>     |
|                    | Stainless Steel V2A                 | <b>W4</b>     |
|                    | 1.4301 / 1.4305 (AISI 304 / 303)    |               |
|                    | Stainless Steel V4A                 | <b>W5</b>     |
|                    | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |               |

| Group<br>STAUFF | DIN | Dimensions (mm/in) |      | B    | H1   | H2  | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|------|------|------|-----|-----|--------------------------------------|
| Thread G        | L   |                    |      |      |      |     |     |                                      |
| 1               | 0   |                    |      |      |      |     |     |                                      |
| 1A              | 1   |                    |      |      |      |     |     |                                      |
| 2               | 2   |                    |      |      |      |     |     |                                      |
| 3               | 3   |                    |      |      |      |     |     |                                      |
| 4               | 4   | M6                 | 25,5 | 10,4 | 14,2 | 5,5 | 12  | SM-1-8/1D-M-W3                       |
|                 |     | 1/4-20 UNC         | 1.00 | .41  | .56  | .22 | .47 | SM-1-8/1D-U-W3                       |
| 5               | 5   |                    |      |      |      |     |     |                                      |
| 6               | 6   |                    |      |      |      |     |     |                                      |
| 7               | 7   |                    |      |      |      |     |     |                                      |
| 8               | 8   |                    |      |      |      |     |     |                                      |

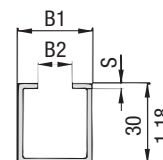
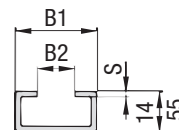
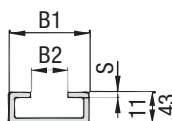
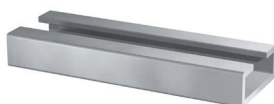
Hexagon Rail Nuts, type SM-1-8/1D are also suitable for Twin Series, STAUFF Group 1D.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Mounting Rail

(for Use with Hexagon Rail Nut SM)

### Type TS



Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

### Ordering Codes

#### Mounting Rail \*TS-\*11-\*1M-\*W1

|                  |                                                                                     |            |
|------------------|-------------------------------------------------------------------------------------|------------|
| * Mounting Rail  |                                                                                     | <b>TS</b>  |
| * Height of rail | 11 mm / .43 in                                                                      | <b>11</b>  |
|                  | 14 mm / .55 in                                                                      | <b>14</b>  |
|                  | 30 mm / 1.18 in                                                                     | <b>30</b>  |
| * Length of rail | 1 m / 3.28 ft                                                                       | <b>1M</b>  |
|                  | 2 m / 6.56 ft                                                                       | <b>2M</b>  |
|                  | Alternative lengths available upon request. Contact STAUFF for further information. |            |
| * Material code  | Carbon Steel, uncoated                                                              | <b>W1</b>  |
|                  | Carbon Steel, hot-dip galvanised                                                    | <b>W98</b> |
|                  | Stainless Steel V2A                                                                 | <b>W4</b>  |
|                  | 1.4301 / 1.4305 (AISI 304 / 303)                                                    |            |
|                  | Stainless Steel V4A                                                                 | <b>W5</b>  |
|                  | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                                                 |            |

| Group<br>STAUFF | DIN | Dimensions (mm/in) |                               |                               | Ordering Codes (Standard Options)     |                                       |
|-----------------|-----|--------------------|-------------------------------|-------------------------------|---------------------------------------|---------------------------------------|
| B1              | B2  | S                  | Length of Rail: 1 m / 3.28 ft | Length of Rail: 2 m / 6.56 ft |                                       |                                       |
| 1               | 0   |                    |                               |                               |                                       |                                       |
| 1A              | 1   |                    |                               |                               | Height 11 mm / .43 in<br>TS-11-1M-W1  | Height 11 mm / .43 in<br>TS-11-2M-W1  |
| 2               | 2   |                    |                               |                               |                                       |                                       |
| 3               | 3   |                    |                               |                               |                                       |                                       |
| 4               | 4   | 28<br>1.10         | 11<br>.43                     | 2<br>.08                      | Height 14 mm / .55 in<br>TS-14-1M-W1  | Height 14 mm / .55 in<br>TS-14-2M-W1  |
| 5               | 5   |                    |                               |                               |                                       |                                       |
| 6               | 6   |                    |                               |                               |                                       |                                       |
| 7               | 7   |                    |                               |                               | Height 30 mm / 1.18 in<br>TS-30-1M-W1 | Height 30 mm / 1.18 in<br>TS-30-2M-W1 |
| 8               | 8   |                    |                               |                               |                                       |                                       |

Mounting Rails, type TS-11/14/30 are suitable for all Standard Series and Twin Series group sizes. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



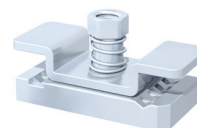
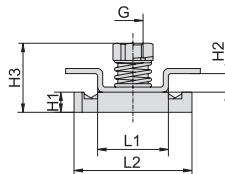
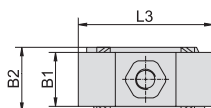


## Channel Rail Adaptor

(for Use with Various Channel Rails)

### Type CRA

A



| Group<br>STAUFF | DIN | Dimensions (mm/in) | Thread G | L1  | L2   | L3   | B1  | B2  | H1  | H2  | H3   | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|----------|-----|------|------|-----|-----|-----|-----|------|--------------------------------------|
| 1               | 0   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 1A              | 1   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 2               | 2   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 3               | 3   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 4               | 4   | M6                 |          | 21  | 35   | 40   | 16  | 19  | 6   | 5,5 | 20,5 | CRA-1-8/1D-M-W3                      |
|                 |     | 1/4-20 UNC         |          | .83 | 1.38 | 1.57 | .63 | .75 | .24 | .22 | .81  | CRA-1-8/1D-U-W3                      |
| 5               | 5   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 6               | 6   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 7               | 7   |                    |          |     |      |      |     |     |     |     |      |                                      |
| 8               | 8   |                    |          |     |      |      |     |     |     |     |      |                                      |

### Ordering Codes

**Adaptor** \*CRA-\*1-8/1D-\*M-\*W3

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| * Channel Rail Adaptor                   | CRA                                                                                            |
| * STAUFF Group 1 to 8 (DIN Group 0 to 8) | 1-8/1D                                                                                         |
| * Thread code                            | Metric ISO thread<br>Unified coarse (UNC) thread                                               |
|                                          | M<br>U                                                                                         |
| * Material code                          | Carbon Steel, zinc/nickel-plated<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |
|                                          | W3<br>W5                                                                                       |

The Channel Rail Adaptor, type CRA 1-8/1D is also suitable for Twin Series, STAUFF Group 1D.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

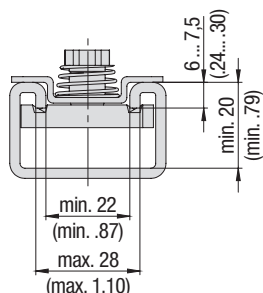


### Compatibility with Channel Rails

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various channel rails, including the following types:

| HALFEN             | HILTI                      | UNISTRUT®                                  | STAUFF (Cushion Clamp Series)           |
|--------------------|----------------------------|--------------------------------------------|-----------------------------------------|
| HM 41/41           | MQ-21, MQ-41, MQ-52, MQ-72 | P1000, P1000T, P1000V, P1000VT, P1001      | SCS-048-1-PL, SCS-048-1-GR              |
| HZA 41/22          | MQ-21U, MQ-41U, MQ-72U     | P2000, P2000T                              | SCS-120-1-PL, SCS-120-1-GR              |
| HZM 41/41          | MQ-21D, MQ-41D, MQ-52-72D  | P3003, P3003T, P3300V, P3300VT, P3301      | See page 149 for technical information. |
| HZM 41/22          |                            | P4000, P4000T                              |                                         |
| HL 41/41, HL 41/B2 |                            | P5000, P5000T, P5001, P5500, P5500T, P5501 |                                         |

To check the compatibility with additional types of channel rail, please compare the dimensions with the following drawing before use.

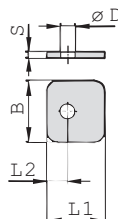


**Basic dimensional requirements for channel rails  
to be used with STAUFF Channel Rail Adaptors, type CRA**

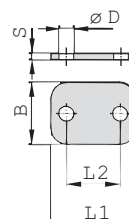
Dimensional drawings: All dimensions in mm (in).



## Cover Plate Type DP



STAUFF Group 1



STAUFF Group 1A to 8

### Ordering Codes

#### Cover Plate

**\*DP-\*1-\*W3**

|                 |                                            |
|-----------------|--------------------------------------------|
| * Cover Plate   | DP                                         |
| * STAUFF Group  | 1                                          |
| * Material code | Carbon Steel, zinc/nickel-plated <b>W3</b> |
|                 | Stainless Steel V2A <b>W4</b>              |
|                 | 1.4301 / 1.4305 (AISI 304 / 303)           |
|                 | Stainless Steel V4A <b>W5</b>              |
|                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti)        |
|                 | Aluminium EN AW-6060 <b>W85</b>            |

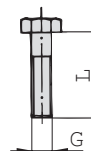
| Group<br>STAUFF | DIN | Dimensions (mm/in) |      | B    | S   | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|------|------|-----|-----|--------------------------------------|
| L1              | L2  |                    |      |      |     |     |                                      |
| 1               | 0   | 28                 | 9,5  | 30   | 3   | 7   | DP-1-W3                              |
|                 |     | 1.10               | .37  | 1.18 | .12 | .28 |                                      |
| 1A              | 1   | 34                 | 20   | 30   | 3   | 7   | DP-1A-W3                             |
|                 |     | 1.34               | .79  | 1.18 | .12 | .28 |                                      |
| 2               | 2   | 40,5               | 26   | 30   | 3   | 7   | DP-2-W3                              |
|                 |     | 1.59               | 1.02 | 1.18 | .12 | .28 |                                      |
| 3               | 3   | 48                 | 33   | 30   | 3   | 7   | DP-3-W3                              |
|                 |     | 1.89               | 1.30 | 1.18 | .12 | .28 |                                      |
| 4               | 4   | 57                 | 40   | 30   | 3   | 7   | DP-4-W3                              |
|                 |     | 2.24               | 1.57 | 1.18 | .12 | .28 |                                      |
| 5               | 5   | 70                 | 52   | 30   | 3   | 7   | DP-5-W3                              |
|                 |     | 2.76               | 2.05 | 1.18 | .12 | .28 |                                      |
| 6               | 6   | 86                 | 66   | 30   | 3   | 7   | DP-6-W3                              |
|                 |     | 3.39               | 2.60 | 1.18 | .12 | .28 |                                      |
| 7               | 7   | 118                | 94   | 30   | 5   | 7   | DP-7-W3                              |
|                 |     | 4.65               | 3.70 | 1.18 | .20 | .28 |                                      |
| 8               | 8   | 144                | 120  | 30   | 5   | 7   | DP-8-W3                              |
|                 |     | 5.67               | 4.72 | 1.18 | .20 | .28 |                                      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Hexagon Head Bolt

(for Use with Cover Plate DP)

### Type AS



Hexagon Head Bolt AS (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Cover Plate DP

### Ordering Codes

**Hexagon Head Bolt \*AS-\*M6x30-\*W3**

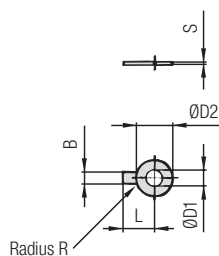
|                                                |                                                                              |       |
|------------------------------------------------|------------------------------------------------------------------------------|-------|
| * Type of bolt                                 | Hexagon Head Bolt<br>(according to DIN 931 / 933<br>or ANSI / ASME B18.2.1.) | AS    |
| * Thread type and size acc. to dimension table |                                                                              | M6x30 |
| * Material code                                | Carbon Steel, zinc/nickel-plated                                             | W3    |
|                                                | Stainless Steel V2A                                                          | W4    |
|                                                | 1.4301 / 1.4305 (AISI 304 / 303)                                             |       |
|                                                | Stainless Steel V4A                                                          | W5    |
|                                                | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                                          |       |

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes<br>(Standard Options)  |
|-----------------|-----|------------------------------------|---------------------------------------|
| 1               | 0   | M6 x 30<br>1/4-20 UNC x 1-1/4      | AS-M6x30-W3<br>AS-1/4-20UNCx1-1/4-W3  |
| 1A              | 1   | M6 x 30<br>1/4-20 UNC x 1-1/4      | AS-M6x30-W3<br>AS-1/4-20UNCx1-1/4-W3  |
| 2               | 2   | M6 x 35<br>1/4-20 UNC x 1-3/8      | AS-M6x35-W3<br>AS-1/4-20UNCx1-3/8-W3  |
| 3               | 3   | M6 x 40<br>1/4-20 UNC x 1-1/2      | AS-M6x40-W3<br>AS-1/4-20UNCx1-1/2-W3  |
| 4               | 4   | M6 x 45<br>1/4-20 UNC x 1-7/8      | AS-M6x45-W3<br>AS-1/4-20UNCx1-7/8-W3  |
| 5               | 5   | M6 x 60<br>1/4-20 UNC x 2-3/8      | AS-M6x60-W3<br>AS-1/4-20UNCx2-3/8-W3  |
| 6               | 6   | M6 x 70<br>1/4-20 UNC x 2-3/4      | AS-M6x70-W3<br>AS-1/4-20UNCx2-3/4-W3  |
| 7               | 7   | M6 x 100<br>1/4-20 UNC x 4         | AS-M6x100-W3<br>AS-1/4-20UNCx4-W3     |
| 8               | 8   | M6 x 125<br>1/4-20 UNC x 4-7/8     | AS-M6x125-W3<br>AS-1/4-20UNCx4-7/8-W3 |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.






**Safety Washer SI**

(Bend longer tab down towards the side of the clamp body  
and one side up towards one of the flats of the hexagon head bolt)

| Group<br>STAUFF | DIN    | Dimensions (mm/in) |     | ØD1 | B   | ØD2 | L   | R | S | Ordering Codes<br>(Standard Options) |
|-----------------|--------|--------------------|-----|-----|-----|-----|-----|---|---|--------------------------------------|
| 1 to 8          | 0 to 8 | 6,4                | 7   | 19  | 18  | 4   | 0,5 |   |   | SI-6.4-DIN93-W3                      |
|                 |        | .25                | .28 | .75 | .71 | .16 | .02 |   |   |                                      |

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening.  
Safety Washers, type SI are suitable for all Standard Series group sizes.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Safety Washer

(for Use with Hexagon Head Bolt AS)

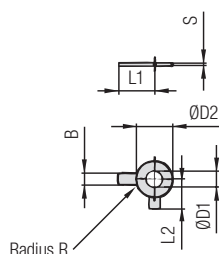
### Type SI (DIN 93)



## Ordering Codes

### Safety Washer \*SI-\*6.4-\*DIN93-\*W3

|                  |                                                   |              |
|------------------|---------------------------------------------------|--------------|
| * Type of washer | Safety washer with 1 tab<br>(according to DIN 93) | SI-6.4-DIN93 |
| * Material code  | Carbon Steel, zinc/nickel-plated                  | W3           |
|                  | Stainless Steel V4A                               | W5           |
|                  | 1.4401 / 1.4571 (AISI 316 / 316 Ti)               |              |


**Safety Washer SI**

(Bend longer tab down towards the side of the clamp body  
and shorter tab up towards one of the flats of the hexagon head bolt)

| Group<br>STAUFF | DIN    | Dimensions (mm/in) |     | ØD1 | B   | ØD2 | L1  | L2  | R | S | Ordering Codes<br>(Standard Options) |
|-----------------|--------|--------------------|-----|-----|-----|-----|-----|-----|---|---|--------------------------------------|
| 1 to 8          | 0 to 8 | 6,4                | 7   | 12  | 18  | 9   | 4   | 0,5 |   |   | SI-6.4-DIN463-W3                     |
|                 |        | .25                | .28 | .47 | .71 | .35 | .16 | .02 |   |   |                                      |

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening.  
Safety Washers, type SI are suitable for all Standard Series group sizes.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Safety Washer

(for Use with Hexagon Head Bolt AS)

### Type SI (DIN 463)



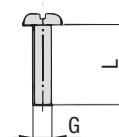
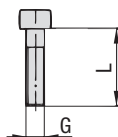
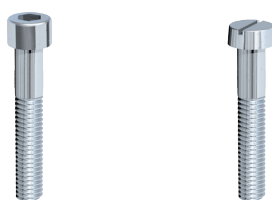
## Ordering Codes

### Safety Washer \*SI-\*6.4-\*DIN463-\*W3

|                  |                                                     |               |
|------------------|-----------------------------------------------------|---------------|
| * Type of washer | Safety washer with 2 tabs<br>(according to DIN 463) | SI-6.4-DIN463 |
| * Material code  | Carbon Steel, zinc/nickel-plated                    | W3            |
|                  | Stainless Steel V4A                                 | W5            |
|                  | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                 |               |



## Socket Cap Screw    Slotted Head Screw Type IS                      Type LI



### Socket Cap Screw IS

(according to ISO 4762 or ANSI / ASME B18.3)

Dimensions applicable only when used without Cover Plate DP

### Slotted Head Screw LI

(according to ISO 1207 or ANSI / ASME B18.6.3)

Dimensions applicable only when used without Cover Plate DP

### Ordering Codes

**Socket Cap Screw**    **\*IS-\*M6x30-\*W3**

**Slotted Head Screw**    **\*LI-\*M6x30-\*W3**

\* Type of bolt    Socket Cap Screw (according to ISO 4762 or ANSI / ASME B18.3)    **IS**  
Slotted Head Screw (according to ISO 1207 or ANSI / ASME B18.6.3)    **LI**

Please note:    Socket cap screws IS and slotted head screws LI have to be used in conjunction with washers US, which are available separately.

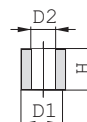
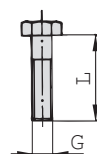
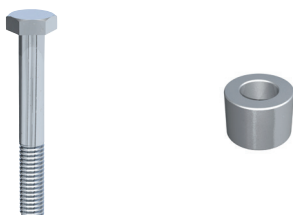
\* Thread type and size acc. to dimension table    **M6x30**

\* Material code    Carbon Steel, zinc/nickel-plated    **W3**  
Stainless Steel V2A    **W4**  
1.4301 / 1.4305 (AISI 304 / 303)  
Stainless Steel V4A    **W5**  
1.4401 / 1.4571 (AISI 316 / 316 Ti)

| Group STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes (Standard Options)<br>Socket Cap Screws | Slotted Head Screws                  |
|--------------|-----|------------------------------------|--------------------------------------------------------|--------------------------------------|
| 1            | 0   | M6 x 20<br>1/4-20 UNC x 3/4        | IS-M6x20-W3<br>IS-1/4-20UNCx3/4-W3                     | LI-M6x20-W3<br>LI-1/4-20UNCx3/4-W3   |
| 1A           | 1   | M6 x 20<br>1/4-20 UNC x 3/4        | IS-M6x20-W3<br>IS-1/4-20UNCx3/4-W3                     | LI-M6x20-W3<br>LI-1/4-20UNCx3/4-W3   |
| 2            | 2   | M6 x 25<br>1/4-20 UNC x 1          | IS-M6x25-W3<br>IS-1/4-20UNCx1-W3                       | LI-M6x25-W3<br>LI-1/4-20UNCx1-W3     |
| 3            | 3   | M6 x 30<br>1/4-20 UNC x 1-1/8      | IS-M6x30-W3<br>IS-1/4-20UNCx1-1/8-W3                   | LI-M6x30-W3<br>LI-1/4-20UNCx1-1/8-W3 |
| 4            | 4   | M6 x 35<br>1/4-20 UNC x 1-3/8      | IS-M6x35-W3<br>IS-1/4-20UNCx1-3/8-W3                   | LI-M6x35-W3<br>LI-1/4-20UNCx1-3/8-W3 |
| 5            | 5   | M6 x 50<br>1/4-20 UNC x 2          | IS-M6x50-W3<br>IS-1/4-20UNCx2-W3                       | LI-M6x50-W3<br>LI-1/4-20UNCx2-W3     |
| 6            | 6   | M6 x 60<br>1/4-20 UNC x 2-1/2      | IS-M6x60-W3<br>IS-1/4-20UNCx2-1/2-W3                   | LI-M6x60-W3<br>LI-1/4-20UNCx2-1/2-W3 |
| 7            | 7   | M6 x 90<br>1/4-20 UNC x 3-3/8      | IS-M6x90-W3<br>IS-1/4-20UNCx3-3/8-W3                   | ON REQUEST ONLY                      |
| 8            | 8   | M6 x 110<br>1/4-20 UNC x 4-3/8     | IS-M6x110-W3<br>IS-1/4-20UNCx4-3/8-W3                  | ON REQUEST ONLY                      |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Hexagon Head Bolt    Insert Type AS                      Type ES / EP



### Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Inserts EP / ES

### Insert EP (Polypropylene)

**Insert ES-W3** (Steel, zinc/nickel-plated)

**Insert ES-W5** (Stainless Steel V4A)

### Ordering Codes

**Hexagon Head Bolt**    **\*AS-\*M6x27-\*W3**

\* Type of bolt    Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.)    **AS**

\* Thread type and size acc. to dimension table    **M6x27**

\* Material code    Carbon Steel, zinc/nickel-plated    **W3**  
Stainless Steel V2A    **W4**  
1.4301 / 1.4305 (AISI 304 / 303)  
Stainless Steel V4A    **W5**  
1.4401 / 1.4571 (AISI 316 / 316 Ti)

| Group STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes (Standard Options)     |
|--------------|-----|------------------------------------|---------------------------------------|
| 1            | 0   | M6 x 27<br>1/4-20 UNC x 1-1/8      | AS-M6x27-W3<br>AS-1/4-20UNCx1-1/8-W3  |
| 1A           | 1   | M6 x 27<br>1/4-20 UNC x 1-1/8      | AS-M6x27-W3<br>AS-1/4-20UNCx1-1/8-W3  |
| 2            | 2   | M6 x 32<br>1/4-20 UNC x 1-3/8      | AS-M6x32-W3<br>AS-1/4-20UNCx1-3/8-W3  |
| 3            | 3   | M6 x 35<br>1/4-20 UNC x 1-3/8      | AS-M6x35-W3<br>AS-1/4-20UNCx1-3/8-W3  |
| 4            | 4   | M6 x 42<br>1/4-20 UNC x 1-5/8      | AS-M6x42-W3<br>AS-1/4-20UNCx1-5/8-W3  |
| 5            | 5   | M6 x 57<br>1/4-20 UNC x 2-3/8      | AS-M6x57-W3<br>AS-1/4-20UNC-2-3/8-W3  |
| 6            | 6   | M6 x 65<br>1/4-20 UNC x 2-3/4      | AS-M6x65-W3<br>AS-1/4-20UNCx2-3/4-W3  |
| 7            | 7   | M6 x 95<br>1/4-20 UNC x 4          | AS-M6x95-W3<br>AS-1/4-20UNCx4-W3      |
| 8            | 8   | M6 x 118<br>1/4-20 UNC x 4-3/4     | AS-M6x118-W3<br>AS-1/4-20UNCx4-3/4-W3 |

| Group STAUFF | DIN    | Dimensions (mm/in)<br>D1    D2    H ES    H EP        | Ordering Codes (Standard Options) |
|--------------|--------|-------------------------------------------------------|-----------------------------------|
| 1 to 8       | 0 to 8 | 11,8    6,5    7,8    8,6<br>.46    .26    .31    .34 | ES-W3    EP                       |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

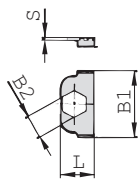


## Safety Locking Plate

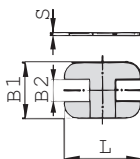
(for Use with Stacking Bolt AF)

### Type SIG

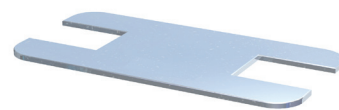
A



STAUFF Group 1



STAUFF Group 1A to 8



| Group<br>STAUFF | DIN | Dimensions (mm/in) |            |             |          | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|------------|-------------|----------|--------------------------------------|
|                 |     | L                  | B1         | B2          | S        |                                      |
| 1               | 0   | 16<br>.63          | 32<br>1.26 | 11,2<br>.44 | 1<br>.04 | SIG-1-W3                             |
| 1A              | 1   | 33<br>1.30         | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-1A-W3                            |
| 2               | 2   | 39<br>1.54         | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-2-W3                             |
| 3               | 3   | 47<br>1.85         | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-3-W3                             |
| 4               | 4   | 56<br>2.20         | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-4-W3                             |
| 5               | 5   | 69<br>2.72         | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-5-W3                             |
| 6               | 6   | 85<br>3.35         | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-6-W3                             |
| 7               | 7   | 117<br>4.61        | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-7-W3                             |
| 8               | 8   | 143<br>5.63        | 28<br>1.10 | 11,2<br>.44 | 1<br>.04 | SIG-8-W3                             |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Safety Locking Plate

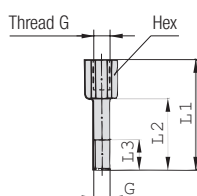
**\*SIG-\*1-\*W3**

|                        |                                     |     |
|------------------------|-------------------------------------|-----|
| * Safety Locking Plate |                                     | SIG |
| * STAUFF Group         |                                     | 1   |
| * Material code        | Carbon Steel, zinc/nickel-plated    | W3  |
|                        | Stainless Steel V2A                 | W4  |
|                        | 1.4301 / 1.4305 (AISI 304 / 303)    |     |
|                        | Stainless Steel V4A                 | W5  |
|                        | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |     |

## Stacking Bolt

(for Use with Safety Locking Plate SIG)

### Type AF



| Group<br>STAUFF | DIN | Dimensions <sup>(mm/in)</sup> |      |      |         |     | Ordering Codes<br>(Standard Options) |
|-----------------|-----|-------------------------------|------|------|---------|-----|--------------------------------------|
|                 |     | Thread G                      | L1   | L2   | L3 min. | Hex |                                      |
| 1               | 0   | M6                            | 34   | 20   | 12      | 11  | AF-1/1A/1D-M-W3                      |
|                 |     | 1/4-20 UNC                    | 1.34 | .79  | .47     | .43 | AF-1/1A/1D-U-W3                      |
| 1A              | 1   | M6                            | 34   | 20   | 12      | 11  | AF-1/1A/1D-M-W3                      |
|                 |     | 1/4-20 UNC                    | 1.34 | .79  | .47     | .43 | AF-1/1A/1D-U-W3                      |
| 2               | 2   | M6                            | 40   | 25   | 12      | 11  | AF-2-M-W3                            |
|                 |     | 1/4-20 UNC                    | 1.57 | .98  | .47     | .43 | AF-2-U-W3                            |
| 3               | 3   | M6                            | 44   | 30   | 12      | 11  | AF-3-M-W3                            |
|                 |     | 1/4-20 UNC                    | 1.73 | 1.18 | .47     | .43 | AF-3-U-W3                            |
| 4               | 4   | M6                            | 49   | 35   | 12      | 11  | AF-4-M-W3                            |
|                 |     | 1/4-20 UNC                    | 1.93 | 1.38 | .47     | .43 | AF-4-U-W3                            |
| 5               | 5   | M6                            | 64   | 50   | 12      | 11  | AF-5-M-W3                            |
|                 |     | 1/4-20 UNC                    | 2.52 | 1.97 | .47     | .43 | AF-5-U-W3                            |
| 6               | 6   | M6                            | 74   | 60   | 12      | 11  | AF-6-M-W3                            |
|                 |     | 1/4-20 UNC                    | 2.91 | 2.36 | .47     | .43 | AF-6-U-W3                            |
| 7               | 7   | M6                            | 99   | 85   | 12      | 11  | AF-7-M-W3                            |
|                 |     | 1/4-20 UNC                    | 3.90 | 3.35 | .47     | .43 | AF-7-U-W3                            |
| 8               | 8   | M6                            | 124  | 110  | 12      | 11  | AF-8-M-W3                            |
|                 |     | 1/4-20 UNC                    | 4.88 | 4.33 | .47     | .43 | AF-8-U-W3                            |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Stacking Bolt

**\*AF-\*1/1A/1D-\*M-\*W3**

|                 |                                                 |    |
|-----------------|-------------------------------------------------|----|
| * Type of bolt  | Stacking Bolt<br>(according to STAUFF Standard) | AF |
| * STAUFF Group  |                                                 | 1  |
| * Thread code   | Metric ISO thread                               | M  |
|                 | Unified coarse (UNC) thread                     | U  |
| * Material code | Carbon Steel, zinc/nickel-plated                | W3 |
|                 | Stainless Steel V2A                             | W4 |
|                 | 1.4301 / 1.4305 (AISI 304 / 303)                |    |
|                 | Stainless Steel V4A                             | W5 |
|                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti)             |    |



SP - 106A - PP - DP-AS - M - W10 - K

1 - 2 - 3 - 4 - 5 - 6 - 7

## ① Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding **Code** to position ① of the order code for your clamp assembly.



Without Installation Equipment  
Code: **none**

### Installation on Weld Plate



Single Weld Plate  
Code: **SP**



Elongated Weld Plate  
Code: **SPV**



Twin Weld Plate (for STAUFF Group 1 to 6 only)  
Code: **DSP**



Group Weld Plate (for STAUFF Group 1 to 6 only)  
Code: **RAP**



Angled Weld Plate (for STAUFF Group 1 to 6 only)  
Code: **WSP**



Bridge Weld Plate (for STAUFF Group 1A to 6 only)  
Code: **BSP**

### Installation on Mounting / Channel Rail



Hexagon Rail Nut  
Code: **SM**



Channel Rail Adaptor  
Code: **CRA**

## ② Group Size & Diameter

Please select the required group size and diameter and add the corresponding **Code** to position ② of the order code for your clamp assembly.

| Group     | Outside Diameter<br>P / T / H<br>(mm) | Availability of Clamp<br>Body Materials & Designs |        |         | Code   |
|-----------|---------------------------------------|---------------------------------------------------|--------|---------|--------|
|           |                                       | Profiled<br>Design                                | Type H | Type RI |        |
| 1<br>(0)  | 6                                     | ●                                                 | ●      | ○       | 106    |
|           | 6,4                                   | ●                                                 | ●      | ○       | 106.4  |
|           | 8                                     | ●                                                 | ●      | ○       | 108    |
|           | 9,5                                   | ●                                                 | ●      | ○       | 109.5  |
|           | 10                                    | ●                                                 | ●      | ○       | 110    |
| 1A<br>(1) | 12                                    | ●                                                 | ●      | ○       | 112    |
|           | 6                                     | ●                                                 | ●      | ○       | 106A   |
|           | 6,4                                   | ●                                                 | ●      | ○       | 106.4A |
|           | 8                                     | ●                                                 | ●      | ○       | 108A   |
|           | 9,5                                   | ●                                                 | ●      | ○       | 109.5A |
| 2<br>(2)  | 10                                    | ●                                                 | ●      | ○       | 110A   |
|           | 12                                    | ●                                                 | ●      | ○       | 112A   |
|           | 12,7                                  | ●                                                 | ●      | ○       | 212.7  |
|           | 13,5                                  | ●                                                 | ●      | ○       | 213.5  |
|           | 14                                    | ●                                                 | ●      | ○       | 214    |
| 3<br>(3)  | 15                                    | ●                                                 | ●      | ○       | 215    |
|           | 16                                    | ●                                                 | ●      | ○       | 216    |
|           | 17,2                                  | ●                                                 | ●      | ○       | 217.2  |
|           | 18                                    | ●                                                 | ●      | ○       | 218    |
|           | 19                                    | ●                                                 | ●      | ○       | 319    |
| 4<br>(4)  | 20                                    | ●                                                 | ●      | ○       | 320    |
|           | 21,3                                  | ●                                                 | ●      | ○       | 321.3  |
|           | 22                                    | ●                                                 | ●      | ○       | 322    |
|           | 25                                    | ●                                                 | ●      | ○       | 325    |
|           | 25,4                                  | ●                                                 | ●      | ○       | 325.4  |
| 5<br>(5)  | 6                                     | ○                                                 | ○      | ●       | 406    |
|           | 8                                     | ○                                                 | ○      | ●       | 408    |
|           | 10                                    | ○                                                 | ○      | ●       | 410    |
|           | 12                                    | ○                                                 | ○      | ●       | 412    |
|           | 12,7                                  | ○                                                 | ○      | ●       | 412.7  |
|           | 14                                    | ○                                                 | ○      | ●       | 414    |
|           | 15                                    | ○                                                 | ○      | ●       | 415    |
|           | 16                                    | ○                                                 | ○      | ●       | 416    |
|           | 17,2                                  | ○                                                 | ○      | ●       | 417.2  |
|           | 18                                    | ○                                                 | ○      | ●       | 418    |
|           | 19                                    | ○                                                 | ○      | ●       | 419    |
|           | 26,9                                  | ●                                                 | ●      | ○       | 426.9  |
|           | 28                                    | ●                                                 | ●      | ○       | 428    |
|           | 28,6                                  | ●                                                 | ○      | ○       | 428.6  |
|           | 30                                    | ●                                                 | ●      | ○       | 430    |
|           | 32                                    | ●                                                 | ●      | ○       | 432    |

| Group    | Outside Diameter<br>P / T / H<br>(mm) | Availability of Clamp<br>Body Materials & Designs |        |         | Code  |
|----------|---------------------------------------|---------------------------------------------------|--------|---------|-------|
|          |                                       | Profiled<br>Design                                | Type H | Type RI |       |
| 5<br>(5) | 32                                    | ●                                                 | ●      | ○       | 532   |
|          | 33,7                                  | ●                                                 | ●      | ○       | 533.7 |
|          | 35                                    | ●                                                 | ●      | ○       | 535   |
|          | 38                                    | ●                                                 | ●      | ○       | 538   |
|          | 40                                    | ●                                                 | ●      | ○       | 540   |
|          | 41,3                                  | ●                                                 | ○      | ○       | 541.3 |
|          | 42                                    | ●                                                 | ●      | ○       | 542   |
|          | 20                                    | ○                                                 | ○      | ●       | 620   |
|          | 21,3                                  | ○                                                 | ○      | ●       | 621.3 |
|          | 22                                    | ○                                                 | ○      | ●       | 622   |
| 6<br>(6) | 25                                    | ○                                                 | ○      | ●       | 625   |
|          | 26,9                                  | ○                                                 | ○      | ●       | 626.9 |
|          | 28                                    | ○                                                 | ○      | ●       | 628   |
|          | 30                                    | ○                                                 | ○      | ●       | 630   |
|          | 32                                    | ○                                                 | ○      | ●       | 632   |
|          | 44,5                                  | ●                                                 | ●      | ○       | 644.5 |
|          | 48,3                                  | ●                                                 | ●      | ○       | 648.3 |
|          | 50,8                                  | ●                                                 | ●      | ○       | 650.8 |
|          | 54                                    | ●                                                 | ●      | ○       | 654   |
|          | 57,2                                  | ●                                                 | ●      | ○       | 757.2 |
| 7<br>(7) | 60,3                                  | ●                                                 | ●      | ○       | 760.3 |
|          | 63,5                                  | ●                                                 | ●      | ○       | 763.5 |
|          | 70                                    | ●                                                 | ●      | ○       | 770   |
|          | 73                                    | ●                                                 | ●      | ○       | 773   |
|          | 76,1                                  | ●                                                 | ●      | ○       | 776.1 |
| 8<br>(8) | 88,9                                  | ●                                                 | ●      | ○       | 888.9 |
|          | 102                                   | ●                                                 | ●      | ○       | 8102L |

● Standard Option



Please see pages 32 and 33 with detailed order examples for some of the most popular Standard Series clamp assemblies.

### ③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

#### Profiled Design



Polypropylene  
Code: **PP**



Polypropylene (Colour: Black)  
Code: **PP-BK**



Polyamide  
Code: **PA**



Thermoplastic Elastomer (87 Shore-A)  
Code: **SA**



Aluminium  
Code: **AL** (for STAUFF Group 1A to 6 only)

#### Type H (Smooth)



Polypropylene  
Code: **PP-H**



Polypropylene (Colour: Black)  
Code: **PP-H-BK**



Polyamide  
Code: **PA-H**



Thermoplastic Elastomer (87 Shore-A)  
Code: **SA-H**

#### Type RI (with Elastomer Insert)



Polypropylene  
Code: **PP-R** (for STAUFF Group 4 and 6 only)



Polyamide  
Code: **PA-R** (for STAUFF Group 4 and 6 only)

See pages 154 / 155 for material properties and technical information.

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

### ④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. bolts, screws, cover plates etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

#### Installation with Cover Plate and Bolts

Cover Plate DP with  
Hexagon Head Bolts AS  
Code: **DP-AS**

Cover Plate DP with  
Socket Cap Screws IS\*  
Code: **DP-IS**

#### Installation with Locking Plate and Bolts

Safety Locking Plate SIG with  
Stacking Bolts AF  
Code: **SIG-AF**

#### Installation with Inserts and Bolts

Inserts EP (Plastic) with  
Hexagon Head Bolts AS  
Code: **EP-AS**

Inserts ES (Steel) with  
Hexagon Head Bolts AS  
Code: **ES-AS**

#### Installation with Bolts only

Socket Cap Screws IS (Washers US included)  
Code: **IS**

Slotted Head Screws LI (Washers US included)  
Code: **LI** (for STAUFF Group 1 to 6 only)

\* Special lengths of Socket Cap Screws IS required.  
For exact lengths, please see details of Hexagon Head Bolt, type AS

### ⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

Metric ISO thread  
Code: **M**

Unified coarse (UNC) thread  
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

### ⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A  
1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A  
1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### ⑦ Assembling & Kitting

If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.

**Components supplied separately**  
Code: **none** (standard option)

**Components assembled**  
Code: **A** (special option)

**Components packed in kits**  
Code: **K** (special option)



A



- 2x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Single Weld Plate**  
Surface: W2  
Thread: Metric

**Order Code****SP-212.7-PP-DP-AS-M-W10**

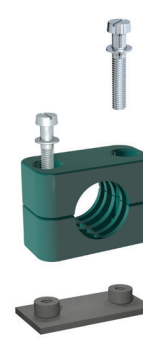
W10 is the standard option for this type of installation.



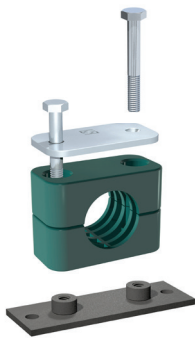
- 2x **Socket Cap Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Single Weld Plate**  
Surface: W2  
Thread: Metric

**Order Code****SP-212.7-PP-IS-M-W10**

W10 is the standard option for this type of installation.



- 2x **Slotted Head Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Single Weld Plate**  
Surface: W2  
Thread: Metric

**Order Code****SP-212.7-PP-LI-M-W10**W10 is the standard option for this type of installation.  
Available up to STAUFF Group 6 (DIN Group 6) only.

- 2x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Elongated Weld Plate**  
Surface: W2  
Thread: Metric

**Order Code****SPV-212.7-PP-DP-AS-M-W10**

W10 is the standard option for this type of installation.



- 2x **Socket Cap Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Elongated Weld Plate**  
Surface: W2  
Thread: Metric

**Order Code****SPV-212.7-PP-IS-M-W10**

W10 is the standard option for this type of installation.



- 2x **Slotted Head Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Elongated Weld Plate**  
Surface: W2  
Thread: Metric

**Order Code****SPV-212.7-PP-LI-M-W10**W10 is the standard option for this type of installation.  
Available up to STAUFF Group 6 (DIN Group 6) only.

- 2x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 2x **Hexagon Rail Nut**  
Surface: W3  
Thread: Metric

**Order Code** (Mounting Rail TS not included.)**SM-212.7-PP-DP-AS-M-W3**

W3 is the standard option for this type of installation.



- 2x **Socket Cap Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 2x **Hexagon Rail Nut**  
Surface: W3  
Thread: Metric

**Order Code** (Mounting Rail TS not included.)**SM-212.7-PP-IS-M-W3**

W3 is the standard option for this type of installation.



- 2x **Slotted Head Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 2x **Hexagon Rail Nut**  
Surface: W3  
Thread: Metric

**Order Code** (Mounting Rail TS not included.)**SM-212.7-PP-LI-M-W3**W3 is the standard option for this type of installation.  
Available up to STAUFF Group 6 (DIN Group 6) only.





- 2x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**212.7-PP-DP-AS-M-W3**

W3 is the standard option for this type of installation.



- 2x **Socket Cap Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**212.7-PP-IS-M-W3**

W3 is the standard option for this type of installation.

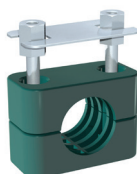


- 2x **Slotted Head Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
Tube-O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**212.7-PP-LI-M-W3**

W3 is the standard option for this type of installation.



- 2x **Stacking Bolt**  
Surface: W3  
Thread: Metric
- 1x **Safety Locking Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**212.7-PP-SIG-AF-M-W3**

W3 is the standard option for this type of installation.



- 1x **Socket Cap Screw**  
with Washer  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 1 (DIN 0)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance  
Thread: Metric
- 1x **Single Weld Plate**  
Surface: W2  
Thread: Metric

### Order Code\*

**SP-106-PP-IS-M-W10**

W10 is the standard option for this type of installation.

### Thread codes

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

|                             |   |
|-----------------------------|---|
| Metric ISO thread           | M |
| Unified coarse (UNC) thread | U |

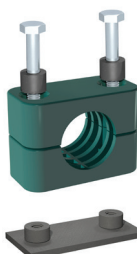
### Material codes

The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Standard Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

|                                                                                                            |     |
|------------------------------------------------------------------------------------------------------------|-----|
| Metal parts made of Carbon Steel, zinc/nickel-plated                                                       | W3  |
| Metal parts made of Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)                                | W4  |
| Metal parts made of Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)                             | W5  |
| Weld Plate made of Carbon Steel, phosphated; Other<br>metal parts made of Carbon Steel, zinc/nickel-plated | W10 |

### Technical Notes

\* Because of their design, STAUFF Group 1 (DIN Group 0) clamp assemblies only include one single bolt / screw.

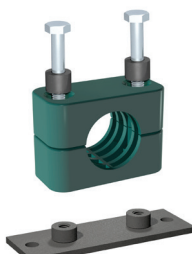


- 2x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 2x **Insert**  
Material: Plastic
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Single Weld Plate**  
Surface: W2  
Thread: Metric

### Order Code

**SP-212.7-PP-EP-AS-M-W10**

W10 is the standard option for this type of installation.



- 2x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 2x **Insert**  
Material: Plastic
- 1x **Clamp Body** (two halves)  
STAUFF Group 2 (DIN 2)  
O.D. 12,7 mm / .50 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Elongated Weld Plate**  
Surface: W2  
Thread: Metric

### Order Code

**SPV-212.7-PP-EP-AS-M-W10**

W10 is the standard option for this type of installation.









**Clamp Body**  
Profiled Inside Surface with Tension Clearance

36



**Clamp Body**  
Smooth Inside Surface without Tension Clearance

38



**Clamp Body with Elastomer Insert**

39



**Weld Plate for Single Clamps**

SPAL

40



**Weld Plate for Double Clamps**

SPAS

40



**Elongated Weld Plate for Single Clamps**

SPAL-DUEB

41



**Elongated Weld Plate for Double Clamps**

SPAS-DUEB

41



**Mounting Rail Nut**

GMV

42



**Mounting Rail**

STSV

42



**Channel Rail Adaptor**

CRA

43



**Cover Plate for Single Clamps**

DPAL

44



**Cover Plate for Double Clamps**

DPAL

44



**Hexagon Head Bolt**

AS

45



**Socket Cap Screw**

IS

45



**Safety Washer (DIN 93)**

SI

46



**Safety Washer (DIN 463)**

SI

46



**Safety Locking Plate**

SIP

47



**Stacking Bolt**

AF

47

**Clamp Assemblies**

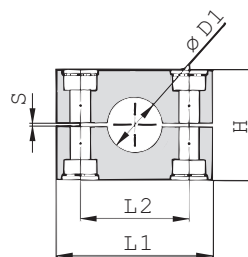
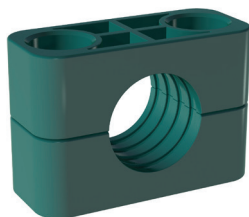
48

**B**



## Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



## Ordering Codes

## Clamp Body

**\*3\*006-\*PP**

One clamp body is consisting of two clamp halves.

- \* 1<sup>st</sup> part of STAUFF Group
- \* Exact outside diameter Ø D1 (mm)
- \* Material code (see below)

**3  
006  
PP**

## Standard Materials

**Polypropylene**

Colour: Green

Material code: **PP****Polypropylene**

Colour: Black

Material code: **PP-BK****Polyamide**

Colour: Black

Material code: **PA****Thermoplastic Elastomer (87 Shore-A)**

Colour: Black

Material code: **SA****Aluminium**

Colour: Self-Colour

Material code: **AL**

See pages 154 / 155 for material properties and technical information.

## Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

## Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions

| Group | STAUFF | DIN | Outside Diameter            |       | Nominal Bore |                                 | Ordering Codes<br>(2 Clamp Halves)<br>(** = Material) | Dimensions (mm/in) |          |      |      |        |       |
|-------|--------|-----|-----------------------------|-------|--------------|---------------------------------|-------------------------------------------------------|--------------------|----------|------|------|--------|-------|
|       |        |     | Pipe / Tube<br>Ø D1<br>(mm) | (in)  | Pipe<br>(in) | Copper Tube<br>ASTM B88<br>(in) |                                                       | L1<br>PP/PA/SA     | L1<br>AL | L2   | H    | S min. | Width |
| 3S    | 1      |     | 6                           |       |              |                                 | 3006-**-**                                            | 55                 | 56       | 33   | 32   | 0,6    | 30,5  |
|       |        |     | 6,4                         | 1/4   |              |                                 | 3006.4-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 8                           | 5/16  |              |                                 | 3008-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 9,5                         | 3/8   |              | 1/4                             | 3009.5-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 10                          |       | 1/8          |                                 | 3010-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 12                          |       |              |                                 | 3012-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 12,7                        | 1/2   |              | 3/8                             | 3012.7-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 13,5                        |       | 1/4          |                                 | 3013.5-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 14                          |       |              |                                 | 3014-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 15                          |       |              |                                 | 3015-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 16                          | 5/8   |              | 1/2                             | 3016-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 17,2                        |       | 3/8          |                                 | 3017.2-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 18                          |       |              |                                 | 3018-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 20                          |       |              |                                 | 3020-**-**                                            |                    |          |      |      |        |       |
| 4S    | 2      |     | 19                          | 3/4   |              |                                 | 4019-**-**                                            | 70                 | 70       | 45   | 48   | 0,6    | 30,5  |
|       |        |     | 20                          |       |              |                                 | 4020-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 21,3                        |       | 1/2          |                                 | 4021.3-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 22                          | 7/8   |              | 3/4                             | 4022-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 25                          |       |              |                                 | 4025-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 25,4                        | 1     |              |                                 | 4025.4-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 26,9                        |       | 3/4          |                                 | 4026.9-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 28                          |       |              |                                 | 4028-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 30                          |       |              |                                 | 4030-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 30                          |       |              |                                 | 5030-**-**                                            | 85                 | 85       | 60   | 60   | 0,6    | 30,5  |
| 5S    | 3      |     | 32                          | 1-1/4 |              |                                 | 5032-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 33,7                        |       | 1            |                                 | 5033.7-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 35                          |       |              | 1-1/4                           | 5035-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 38                          | 1-1/2 |              |                                 | 5038-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 40                          |       |              |                                 | 5040-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 41,3                        |       |              | 1-1/2                           | 5041.3-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 42                          |       | 1-1/4        |                                 | 5042-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 38                          | 1-1/2 |              |                                 | 6038-**-**                                            | 115                | 120      | 90   | 89   | 2      | 45    |
| 6S    | 4      |     | 42                          |       | 1-1/4        |                                 | 6042-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 44,5                        | 1-3/4 |              |                                 | 6044.5-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 48,3                        |       | 1-1/2        |                                 | 6048.3-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 50,8                        | 2     |              |                                 | 6050.8-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 54                          |       |              | 2                               | 6054-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 55                          |       |              |                                 | 6055-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 57                          |       |              |                                 | 6057-**-**                                            |                    |          |      |      |        |       |
|       |        |     | 57,2                        | 2-1/4 |              |                                 | 6057.2-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 60,3                        |       | 2            |                                 | 6060.3-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 63,5                        | 2-1/2 |              |                                 | 6063.5-**-**                                          |                    |          |      |      |        |       |
|       |        |     | 65                          |       |              |                                 | 6065-**-**                                            | 4.53               | 4.72     | 3.54 | 3.50 | .08    | 1.77  |
|       |        |     | 70                          | 2-3/4 |              |                                 | 6070-**-**                                            |                    |          |      |      |        |       |

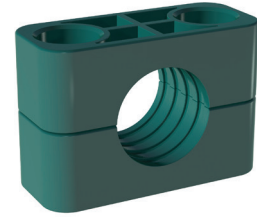
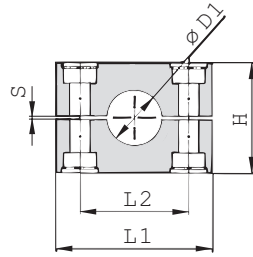
See page 37 for STAUFF Group 7S to 12S (DIN Group 5 to 10).

Additional outside diameters are available upon request. Please contact STAUFF for further information.



## Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



B

| Group | DIN | Outside Diameter            |       | Nominal Bore         | Ordering Codes<br>(2 Clamp Halves)<br>(** = Material) | Dimensions (mm/in) |          |    |   |        |       |
|-------|-----|-----------------------------|-------|----------------------|-------------------------------------------------------|--------------------|----------|----|---|--------|-------|
|       |     | Pipe / Tube<br>Ø D1<br>(mm) | (in)  |                      |                                                       | L1<br>PP/PA        | L1<br>AL | L2 | H | S min. | Width |
| 7S    | 5   | 60,3                        |       |                      | 7060.3-**-*                                           |                    |          |    |   |        |       |
|       |     | 65                          |       |                      | 7065-**-*                                             |                    |          |    |   |        |       |
|       |     | 70                          | 2-3/4 |                      | 7070-**-*                                             |                    |          |    |   |        |       |
|       |     | 73                          |       | 2-1/2 (ANSI B 36-10) | 7073-**-*                                             |                    |          |    |   |        |       |
|       |     | 75                          |       |                      | 7075-**-*                                             |                    |          |    |   |        |       |
|       |     | 76,1                        | 3     | 2-1/2 (DIN EN 10220) | 7076.1-**-*                                           |                    |          |    |   |        |       |
|       |     | 80                          |       |                      | 7080-**-*                                             |                    |          |    |   |        |       |
|       |     | 82,5                        |       |                      | 7082.5-**-*                                           |                    |          |    |   |        |       |
| 8S    | 6   | 88,9                        | 3-1/2 | 3                    | 7088.9-**-*                                           |                    |          |    |   |        |       |
|       |     | 100                         |       |                      | 8088.9-**-*                                           |                    |          |    |   |        |       |
|       |     | 102                         | 4     | 3-1/2                | 8102-**-*                                             |                    |          |    |   |        |       |
|       |     | 108                         |       |                      | 8108-**-*                                             |                    |          |    |   |        |       |
|       |     | 114                         | 4-1/2 | 4                    | 8114-**-*                                             |                    |          |    |   |        |       |
|       |     | 127                         | 5     |                      | 8127-**-*                                             |                    |          |    |   |        |       |
|       |     | 133                         |       |                      | 8133-**-*                                             |                    |          |    |   |        |       |
|       |     | 127                         | 5     |                      | 9127-**-*                                             |                    |          |    |   |        |       |
| 9S    | 7   | 133                         |       |                      | 9133-**-*                                             |                    |          |    |   |        |       |
|       |     | 140                         |       | 5                    | 9140-**-*                                             |                    |          |    |   |        |       |
|       |     | 152                         | 6     |                      | 9152-**-*                                             |                    |          |    |   |        |       |
|       |     | 159                         |       |                      | 9159-**-*                                             |                    |          |    |   |        |       |
|       |     | 165                         |       |                      | 9165-**-*                                             |                    |          |    |   |        |       |
|       |     | 168                         |       | 6                    | 9168-**-*                                             |                    |          |    |   |        |       |
|       |     | 168                         |       | 6                    | 10168-**-*                                            |                    |          |    |   |        |       |
|       |     | 177,8                       |       |                      | 10177.8-**-*                                          |                    |          |    |   |        |       |
| 10S   | 8   | 193,7                       |       |                      | 10193.7-**-*                                          |                    |          |    |   |        |       |
|       |     | 203                         | 8     |                      | 10203-**-*                                            |                    |          |    |   |        |       |
|       |     | 216                         |       |                      | 10216-**-*                                            |                    |          |    |   |        |       |
|       |     | 219                         |       | 8                    | 10219-**-*                                            |                    |          |    |   |        |       |
|       |     | 219                         |       | 8                    | 11219-**-*                                            |                    |          |    |   |        |       |
| 11S   | 9   | 273                         |       | 10                   | 11273-**-*                                            |                    |          |    |   |        |       |
|       |     | 324                         |       | 12                   | 11324-**-*                                            |                    |          |    |   |        |       |
| 12S   | 10  | 356                         |       | 14                   | 12356-**-*                                            |                    |          |    |   |        |       |
|       |     | 406                         |       | 16                   | 12406-**-*                                            |                    |          |    |   |        |       |

## Ordering Codes

### Clamp Body

\*7\*060.3-\*PP

One clamp body is consisting of two clamp halves.

- \* 1<sup>st</sup> part of STAUFF Group
- \* Exact outside diameter Ø D1 (mm)
- \* Material code (see below)

7  
060.3  
PP

## Standard Materials



**Polypropylene**  
Colour: Green  
Material code: **PP**



**Polypropylene**  
Colour: Black  
Material code: **PP-BK**



**Polyamide**  
Colour: Black  
Material code: **PA**



**Aluminium**  
Colour: Self-Colour  
Material code: **AL**

See pages 154 / 155 for material properties and technical information.

## Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

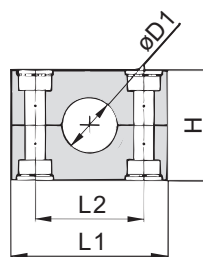
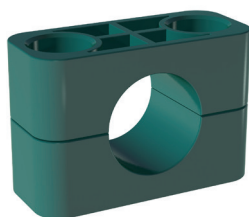
## Product Features

- Proven, tested and trusted product in various markets
- Recommended for the safe installation of rigid pipes and tubes
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions



## Clamp Body ▪ Type H

Smooth Inside Surface without Tension Clearance



## Ordering Codes

## Clamp Body

**\*3\*006-\*PP-H**

One clamp body is consisting of two clamp halves.

- \* 1<sup>st</sup> part of STAUFF Group **3**
- \* Exact outside diameter Ø D1 (mm) **006**
- \* Material code (see below) **PP-H**

## Standard Materials

**Polypropylene**

Colour: Green

Material code: **PP-H****Polypropylene**

Colour: Green

Material code: **PP-H-BK****Polyamide**

Colour: Black

Material code: **PA-H****Thermoplastic Elastomer** (87 Shore-A)

Colour: Black

Material code: **SA-H**

See pages 154 / 155 for material properties and technical information.

## Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

## Product Features

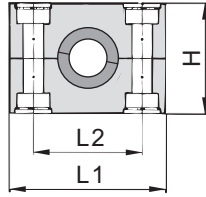
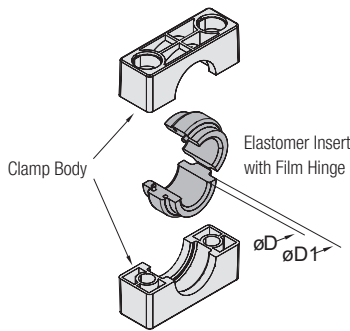
- Proven, tested and trusted product in various markets
- Recommended for the safe installation of hoses and cables
- Chamfered edges avoid damaging of the hose or cable
- Available for all commonly used hose and cable outside diameters
- Excellent weathering resistance, even under extreme conditions

| Group | STAUFF | DIN | Outside Diameter     |       | Ordering Codes<br>(2 Clamp Halves)<br>(**=H = Material) | Dimensions<br>(mm/in) |            |              |              |
|-------|--------|-----|----------------------|-------|---------------------------------------------------------|-----------------------|------------|--------------|--------------|
|       |        |     | Hose<br>Ø D1<br>(mm) | (in)  |                                                         | L1                    | L2         | H            | Width        |
| 3S    | 1      |     | 6                    |       | 3006-**-H                                               | 55<br>2.16            | 33<br>1.30 | 30,5<br>1.20 | 30,5<br>1.20 |
|       |        |     | 6,4                  | 1/4   | 3006.4-**-H                                             |                       |            |              |              |
|       |        |     | 8                    | 5/16  | 3008-**-H                                               |                       |            |              |              |
|       |        |     | 9,5                  | 3/8   | 3009.5-**-H                                             |                       |            |              |              |
|       |        |     | 10                   |       | 3010-**-H                                               |                       |            |              |              |
|       |        |     | 12                   |       | 3012-**-H                                               |                       |            |              |              |
|       |        |     | 12,7                 | 1/2   | 3012.7-**-H                                             |                       |            |              |              |
|       |        |     | 13,5                 |       | 3013.5-**-H                                             |                       |            |              |              |
|       |        |     | 14                   |       | 3014-**-H                                               |                       |            |              |              |
|       |        |     | 15                   |       | 3015-**-H                                               |                       |            |              |              |
|       |        |     | 16                   | 5/8   | 3016-**-H                                               |                       |            |              |              |
|       |        |     | 17,2                 |       | 3017.2-**-H                                             |                       |            |              |              |
|       |        |     | 18                   |       | 3018-**-H                                               |                       |            |              |              |
|       |        |     | 19                   | 3/4   | 4019-**-H                                               | 70<br>2.76            | 45<br>1.77 | 46,5<br>1.83 | 30,5<br>1.20 |
| 4S    | 2      |     | 20                   |       | 4020-**-H                                               |                       |            |              |              |
|       |        |     | 21,3                 |       | 4021.3-**-H                                             |                       |            |              |              |
|       |        |     | 22                   | 7/8   | 4022-**-H                                               |                       |            |              |              |
|       |        |     | 25                   |       | 4025-**-H                                               |                       |            |              |              |
|       |        |     | 25,4                 | 1     | 4025.4-**-H                                             |                       |            |              |              |
|       |        |     | 26,9                 |       | 4026.9-**-H                                             |                       |            |              |              |
|       |        |     | 28                   |       | 4028-**-H                                               |                       |            |              |              |
|       |        |     | 30                   |       | 4030-**-H                                               |                       |            |              |              |
| 5S    | 3      |     | 30                   |       | 5030-**-H                                               | 85<br>3.35            | 60<br>2.36 | 58<br>2.28   | 30,5<br>1.20 |
|       |        |     | 32                   | 1-1/4 | 5032-**-H                                               |                       |            |              |              |
|       |        |     | 33,7                 |       | 5033.7-**-H                                             |                       |            |              |              |
|       |        |     | 35                   |       | 5035-**-H                                               |                       |            |              |              |
|       |        |     | 38                   | 1-1/2 | 5038-**-H                                               |                       |            |              |              |
|       |        |     | 40                   |       | 5040-**-H                                               |                       |            |              |              |
|       |        |     | 41,3                 |       | 5041.3-**-H                                             |                       |            |              |              |
|       |        |     | 42                   |       | 5042-**-H                                               |                       |            |              |              |
| 6S    | 4      |     | 38                   | 1-1/2 | 6038-**-H                                               | 115<br>4.53           | 90<br>3.54 | 87<br>3.43   | 45<br>1.77   |
|       |        |     | 42                   |       | 6042-**-H                                               |                       |            |              |              |
|       |        |     | 44,5                 | 1-3/4 | 6044.5-**-H                                             |                       |            |              |              |
|       |        |     | 48,3                 |       | 6048.3-**-H                                             |                       |            |              |              |
|       |        |     | 50,8                 | 2     | 6050.8-**-H                                             |                       |            |              |              |
|       |        |     | 55                   |       | 6055-**-H                                               |                       |            |              |              |
|       |        |     | 57                   |       | 6057-**-H                                               |                       |            |              |              |
|       |        |     | 57,2                 | 2-1/4 | 6057.2-**-H                                             |                       |            |              |              |
|       |        |     | 60,3                 |       | 6060.3-**-H                                             |                       |            |              |              |
|       |        |     | 63,5                 | 2-1/2 | 6063.5-**-H                                             |                       |            |              |              |
|       |        |     | 65                   |       | 6065-**-H                                               |                       |            |              |              |
|       |        |     | 70                   | 2-3/4 | 6070-**-H                                               |                       |            |              |              |

Additional outside diameters are available upon request. Please contact STAUFF for further information.



## Clamp Body with Elastomer Insert Type RI


**B**

| Group | DIN | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D |       | Ordering Codes<br>Clamp Assembly<br>(Clamp Body +<br>Insert) | Clamp Body<br>Material<br>(2 Clamp Halves) | Elastomer Insert * | Dimensions<br>(mm/in) |       |       |       |       |
|-------|-----|-----------------------------------------------|-------|--------------------------------------------------------------|--------------------------------------------|--------------------|-----------------------|-------|-------|-------|-------|
|       |     | (mm)                                          | (in)  |                                                              |                                            |                    | Ø D1                  | L1    | L2    | H     | Width |
| 4S    | 2   | 6                                             |       | 4006-**-R                                                    | 4S-**-R                                    | RI-06-4/4S         |                       |       |       |       |       |
|       |     | 8                                             | 5/16  | 4008-**-R                                                    |                                            | RI-08-4/4S         |                       |       |       |       |       |
|       |     | 10                                            |       | 4010-**-R                                                    |                                            | RI-10-4/4S         |                       |       |       |       |       |
|       |     | 12                                            |       | 4012-**-R                                                    |                                            | RI-12-4/4S         |                       |       |       |       |       |
|       |     | 12,7                                          | 1/2   | 4012.7-**-R                                                  |                                            | RI-12.7-4/4S       |                       |       |       |       |       |
|       |     | 14                                            |       | 4014-**-R                                                    |                                            | RI-14-4/4S         | 25                    | 70    | 45    | 46,5  | 30,5  |
|       |     | 15                                            |       | 4015-**-R                                                    |                                            | RI-15-4/4S         | .98                   | 2.76  | 1.77  | 4.83  | 1.20  |
|       |     | 16                                            | 5/8   | 4016-**-R                                                    |                                            | RI-16-4/4S         |                       |       |       |       |       |
|       |     | 17,2                                          |       | 4017.2-**-R                                                  |                                            | RI-17.2-4/4S       |                       |       |       |       |       |
|       |     | 18                                            |       | 4018-**-R                                                    |                                            | RI-18-4/4S         |                       |       |       |       |       |
| 5S    | 3   | 19                                            | 3/4   | 4019-**-R                                                    | 5S-**-R                                    | RI-19-4/4S         |                       |       |       |       |       |
|       |     | 20                                            |       | 5020-**-R                                                    |                                            | RI-20-6/5S         |                       |       |       |       |       |
|       |     | 21,3                                          |       | 5021.3-**-R                                                  |                                            | RI-21.3-6/5S       |                       |       |       |       |       |
|       |     | 22                                            | 7/8   | 5022-**-R                                                    |                                            | RI-22-6/5S         |                       |       |       |       |       |
|       |     | 25                                            |       | 5025-**-R                                                    |                                            | RI-25-6/5S         | 38                    | 85    | 60    | 58    | 30,5  |
|       |     | 26,9                                          |       | 5026.9-**-R                                                  |                                            | RI-26.9-6/5S       | 1.50                  | 3.35  | 2.36  | 2.28  | 1.20  |
|       |     | 28                                            |       | 5028-**-R                                                    |                                            | RI-28-6/5S         |                       |       |       |       |       |
|       |     | 30                                            |       | 5030-**-R                                                    |                                            | RI-30-6/5S         |                       |       |       |       |       |
|       |     | 32                                            | 1-1/4 | 5032-**-R                                                    |                                            | RI-32-6/5S         |                       |       |       |       |       |
|       |     | 32                                            | 1-1/4 | 6032-**-R                                                    | 6S-**-R                                    | RI-32-6S           |                       |       |       |       |       |
| 6S    | 4   | 33,7                                          |       | 6033.7-**-R                                                  |                                            | RI-33.7-6S         |                       |       |       |       |       |
|       |     | 35                                            |       | 6035-**-R                                                    |                                            | RI-35-6S           |                       |       |       |       |       |
|       |     | 38,7                                          |       | 6038.7-**-R                                                  |                                            | RI-38.7-6S         |                       |       |       |       |       |
|       |     | 40                                            |       | 6040-**-R                                                    |                                            | RI-40-6S           | 64                    | 115   | 90    | 87    | 45    |
|       |     | 42                                            |       | 6042-**-R                                                    |                                            | RI-42-6S           | 2.52                  | 4.53  | 3.54  | 3.43  | 1.77  |
|       |     | 45,5                                          |       | 6045.5-**-R                                                  |                                            | RI-45.5-6S         |                       |       |       |       |       |
|       |     | 48                                            |       | 6048-**-R                                                    |                                            | RI-48-6S           |                       |       |       |       |       |
|       |     | 51                                            | 2     | 6051-**-R                                                    |                                            | RI-51-6S           |                       |       |       |       |       |
|       |     | 53,4                                          |       | 6053.4-**-R                                                  |                                            | RI-53.4-6S         |                       |       |       |       |       |
|       |     | 56,4                                          |       | 6056.4-**-R                                                  |                                            | RI-56.4-6S         |                       |       |       |       |       |
| 7S    | 5   | 55                                            |       | 7055-**-R                                                    | 7S-**-R                                    | RI-55-7S           |                       |       |       |       |       |
|       |     | 57                                            | 2-1/4 | 7057-**-R                                                    |                                            | RI-57-7S           |                       |       |       |       |       |
|       |     | 60                                            |       | 7060-**-R                                                    |                                            | RI-60-7S           |                       |       |       |       |       |
|       |     | 63,5                                          | 2-1/2 | 7063.5-**-R                                                  |                                            | RI-63.5-7S         | 88                    | 154   | 122   | 120   | 60    |
|       |     | 65                                            |       | 7065-**-R                                                    |                                            | RI-65-7S           | 3.56                  | 6.06  | 4.80  | 4.72  | 2.36  |
|       |     | 70                                            | 2-3/4 | 7070-**-R                                                    |                                            | RI-70-7S           |                       |       |       |       |       |
|       |     | 72                                            |       | 7072-**-R                                                    |                                            | RI-72-7S           |                       |       |       |       |       |
|       |     | 76                                            | 3     | 7076-**-R                                                    |                                            | RI-76-7S           |                       |       |       |       |       |
| 8S    | 6   | 80                                            |       | 8080-**-R                                                    | 8S-**-R                                    | RI-80-8S           | 114                   | 208   | 168   | 168   | 80    |
|       |     | 88,9                                          | 3-1/2 | 8088.9-**-R                                                  |                                            | RI-88.9-8S         | 4.49                  | 8.11  | 6.61  | 6.61  | 3.15  |
|       |     | 102                                           |       | 8102-**-R                                                    |                                            | RI-102-8S          |                       |       |       |       |       |
| 9S    | 7   | 114                                           |       | 9114-**-R                                                    | 9S-**-R                                    | RI-114-9S          | 150                   | 251   | 205   | 200   | 91    |
|       |     | 133                                           | 5-1/4 | 9133-**-R                                                    |                                            | RI-133-9S          | 5.91                  | 9.88  | 8.07  | 7.87  | 3.58  |
|       |     | 140                                           |       | 9140-**-R                                                    |                                            | RI-140-9S          |                       |       |       |       |       |
| 10S   | 8   | 150                                           |       | 10150-**-R                                                   | 10S-**-R                                   | RI-150-10S         |                       |       |       |       |       |
|       |     | 165                                           |       | 10165-**-R                                                   |                                            | RI-165-10S         | 200                   | 336   | 265   | 270   | 120   |
|       |     | 168                                           |       | 10168-**-R                                                   |                                            | RI-168-10S         | 7.87                  | 13.22 | 10.43 | 10.63 | 4.72  |
|       |     | 172                                           |       | 10172-**-R                                                   |                                            | RI-172-10S         |                       |       |       |       |       |

\* Elastomer Inserts for Heavy Series clamp bodies, STAUFF Group 4S also fit into Standard Series clamp bodies, STAUFF Group 4.  
Elastomer Inserts for Heavy Series clamp bodies, STAUFF Group 5S also fit into Standard Series clamp bodies, STAUFF Group 6.

Additional outside diameters are available upon request. Please contact STAUFF for further information.

### Ordering Codes

#### Clamp Assembly **\*4\*006-\*PP-R**

One assembly is consisting of one clamp body and one insert.

\* 1<sup>st</sup> part of STAUFF Group **4**  
\* Exact outside diameter Ø D (mm) **006**  
\* Material code (see below) **PP-R**

#### Clamp Body **\*4S-\*PP-R**

One clamp body is consisting of two clamp halves.

\* STAUFF Group **4S**  
\* Material code (see below) **PP-R**

#### Elastomer Insert **\*RI-\*06-\*4/4S**

\* Elastomer Insert **RI**  
\* Exact outside diameter Ø D (mm) **06**  
\* STAUFF Group 4S (Heavy) and 4 (Standard) **4/4S**  
5S (Heavy) and 6 (Standard) **6/5S**  
6S (Heavy) **6S**  
7S (Heavy) **7S**  
8S (Heavy) **8S**  
9S (Heavy) **9S**  
10S (Heavy) **10S**

### Standard Materials

**Polypropylene**  
Colour: Black  
Material code: **PP-R**

**Polyamide**  
Colour: Black  
Material code: **PA-R**

Elastomer Insert  
4S to 6S: **Thermoplastic Elastomer** (73 Shore-A)  
7S to 10S: **EPDM** (70 Shore-A)  
Colour: Black

See pages 154 / 155 for material properties and technical information.

### Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

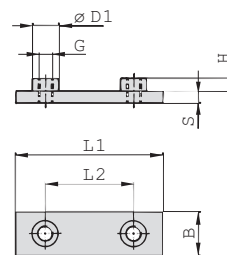
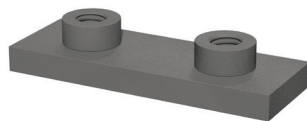
See pages 156 / 157 for material properties and technical information.

### Product Features

- Proven, tested and trusted product in various markets
- Either for the extra vibration/noise reducing installation of pipes and tubes or the extra gentle installation of hoses and cables
- Available for all commonly used outside diameters
- Excellent weathering resistance, even under extreme conditions



## Weld Plate for Single Clamps Type SPAL



### Ordering Codes

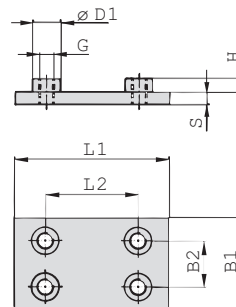
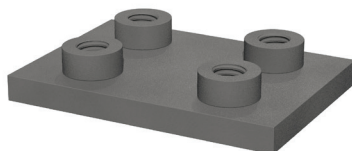
#### Weld Plate **\*SPAL-\*3S-\*M-\*W2**

|                                |                                                                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Weld Plate for Single Clamps | <b>SPAL</b>                                                                                                                                                                                                                                                           |
| * STAUFF Group                 | <b>3S</b>                                                                                                                                                                                                                                                             |
| * Thread code                  | Metric ISO thread <b>M</b><br>Unified coarse (UNC) thread <b>U</b>                                                                                                                                                                                                    |
| * Material code                | Carbon Steel, uncoated <b>W1</b><br>Carbon Steel, phosphated <b>W2</b><br>Carbon Steel, zinc/nickel-plated <b>W3</b><br><br>Stainless Steel V2A <b>W4</b><br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A <b>W5</b><br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |

| Group<br>STAUFF | DIN | Dimensions (mm/in) |       |      |      |      |  | Thread G    | ØD1  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|-------|------|------|------|--|-------------|------|--------------------------------------|
|                 |     | L1                 | L2    | B    | S    | H    |  |             |      |                                      |
| 3S              | 1   | 74                 | 33    | 30   | 8    | 8    |  | M10         | 18   | SPAL-3S-M-W2                         |
|                 |     | 2.91               | 1.30  | 1.18 | .31  | .31  |  | 3/8-16 UNC  | .71  | SPAL-3S-U-W2                         |
| 4S              | 2   | 86                 | 45    | 30   | 8    | 8    |  | M10         | 18   | SPAL-4S-M-W2                         |
|                 |     | 3.39               | 1.77  | 1.18 | .31  | .31  |  | 3/8-16 UNC  | .71  | SPAL-4S-U-W2                         |
| 5S              | 3   | 100                | 60    | 30   | 8    | 8    |  | M10         | 18   | SPAL-5S-M-W2                         |
|                 |     | 3.94               | 2.36  | 1.18 | .31  | .31  |  | 3/8-16 UNC  | .71  | SPAL-5S-U-W2                         |
| 6S              | 4   | 140                | 90    | 45   | 10   | 8    |  | M12         | 20   | SPAL-6S-M-W2                         |
|                 |     | 5.51               | 3.54  | 1.77 | .39  | .31  |  | 7/16-14 UNC | .78  | SPAL-6S-U-W2                         |
| 7S              | 5   | 180                | 122   | 60   | 10   | 12   |  | M16         | 24   | SPAL-7S-M-W2                         |
|                 |     | 7.09               | 4.80  | 2.36 | .39  | .47  |  | 5/8-11 UNC  | .94  | SPAL-7S-U-W2                         |
| 8S              | 6   | 226                | 168   | 80   | 15   | 18   |  | M20         | 30   | SPAL-8S-M-W1                         |
|                 |     | 8.90               | 6.61  | 3.15 | .59  | .71  |  | 3/4-10 UNC  | 1.18 | SPAL-8S-U-W1                         |
| 9S              | 7   | 270                | 205   | 90   | 15   | 21   |  | M24         | 35   | SPAL-9S-M-W1                         |
|                 |     | 10.63              | 8.07  | 3.54 | .59  | .83  |  | 7/8-9 UNC   | 1.38 | SPAL-9S-U-W1                         |
| 10S             | 8   | 340                | 265   | 120  | 25   | 21   |  | M30         | 45   | SPAL-10S-M-W1                        |
|                 |     | 13.39              | 10.43 | 4.72 | .98  | .83  |  | 1-1/8-7 UNC | 1.77 | SPAL-10S-U-W1                        |
| 11S             | 9   | 520                | 395   | 160  | 30   | 38   |  | M30         | 50   | SPAL-11S-M-W1                        |
|                 |     | 20.47              | 15.55 | 6.30 | 1.18 | 1.50 |  | 1-1/4-7 UNC | 1.97 | SPAL-11S-U-W1                        |
| 12S             | 10  | 680                | 534   | 180  | 30   | 38   |  | M30         | 50   | SPAL-12S-M-W1                        |
|                 |     | 27.16              | 21.02 | 7.09 | 1.18 | 1.50 |  | 1-1/4-7 UNC | 1.97 | SPAL-12S-U-W1                        |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Weld Plate for Double Clamps Type SPAS



### Ordering Codes

#### Weld Plate **\*SPAS-\*3S-\*M-\*W2**

|                                |                                                                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Weld Plate for Double Clamps | <b>SPAS</b>                                                                                                                                                                                                                                                           |
| * STAUFF Group                 | <b>3S</b>                                                                                                                                                                                                                                                             |
| * Thread code                  | Metric ISO thread <b>M</b><br>Unified coarse (UNC) thread <b>U</b>                                                                                                                                                                                                    |
| * Material code                | Carbon Steel, uncoated <b>W1</b><br>Carbon Steel, phosphated <b>W2</b><br>Carbon Steel, zinc/nickel-plated <b>W3</b><br><br>Stainless Steel V2A <b>W4</b><br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A <b>W5</b><br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |

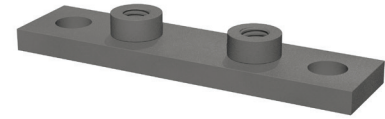
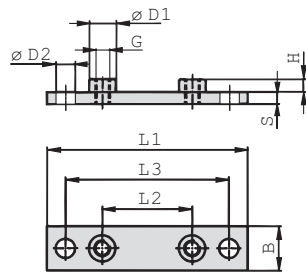
| Group<br>STAUFF | DIN | Dimensions (mm/in) |       |       |      |      |      | Thread G    | ØD1  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|-------|-------|------|------|------|-------------|------|--------------------------------------|
|                 |     | L1                 | L2    | B1    | B2   | S    | H    |             |      |                                      |
| 3S              | 1   | 74                 | 33    | 60    | 30,5 | 8    | 8    | M10         | 18   | SPAS-3S-M-W2                         |
|                 |     | 2.91               | 1.30  | 2.36  | 1.20 | .31  | .31  | 3/8-16 UNC  | .71  | SPAS-3S-U-W2                         |
| 4S              | 2   | 86                 | 45    | 60    | 30,5 | 8    | 8    | M10         | 18   | SPAS-4S-M-W2                         |
|                 |     | 3.39               | 1.77  | 2.36  | 1.20 | .31  | .31  | 3/8-16 UNC  | .71  | SPAS-4S-U-W2                         |
| 5S              | 3   | 100                | 60    | 60    | 30,5 | 8    | 8    | M10         | 18   | SPAS-5S-M-W2                         |
|                 |     | 3.94               | 2.36  | 2.36  | 1.20 | .31  | .31  | 3/8-16 UNC  | .71  | SPAS-5S-U-W2                         |
| 6S              | 4   | 140                | 90    | 90    | 46   | 10   | 8    | M12         | 20   | SPAS-6S-M-W2                         |
|                 |     | 5.51               | 3.54  | 3.54  | 1.81 | .39  | .31  | 7/16-14 UNC | .78  | SPAS-6S-U-W2                         |
| 7S              | 5   | 180                | 122   | 120   | 61   | 10   | 12   | M16         | 24   | SPAS-7S-M-W2                         |
|                 |     | 7.09               | 4.80  | 4.72  | 2.40 | .39  | .47  | 5/8-11 UNC  | .94  | SPAS-7S-U-W2                         |
| 8S              | 6   | 226                | 168   | 160   | 81   | 15   | 18   | M20         | 30   | SPAS-8S-M-W1                         |
|                 |     | 8.90               | 6.61  | 6.61  | 3.19 | .59  | .71  | 3/4-10 UNC  | 1.18 | SPAS-8S-U-W1                         |
| 9S              | 7   | 270                | 205   | 180   | 91   | 15   | 21   | M24         | 35   | SPAS-9S-M-W1                         |
|                 |     | 10.63              | 8.07  | 7.09  | 3.58 | .59  | .83  | 7/8-9 UNC   | 1.38 | SPAS-9S-U-W1                         |
| 10S             | 8   | 340                | 265   | 240   | 121  | 25   | 21   | M30         | 45   | SPAS-10S-M-W1                        |
|                 |     | 13.39              | 10.43 | 9.45  | 4.78 | .98  | .83  | 1-1/8-7 UNC | 1.77 | SPAS-10S-U-W1                        |
| 11S             | 9   | 520                | 395   | 324   | 166  | 30   | 38   | M30         | 50   | SPAS-11S-M-W1                        |
|                 |     | 20.47              | 15.55 | 12.76 | 6.54 | 1.18 | 1.50 | 1-1/4-7 UNC | 1.97 | SPAS-11S-U-W1                        |
| 12S             | 10  | 680                | 534   | 364   | 186  | 30   | 38   | M30         | 50   | SPAS-12S-M-W1                        |
|                 |     | 27.16              | 21.02 | 14.33 | 7.32 | 1.18 | 1.50 | 1-1/4-7 UNC | 1.97 | SPAS-12S-U-W1                        |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





## Elongated Weld Plate for Single Clamps Type SPAL-DUEB



B

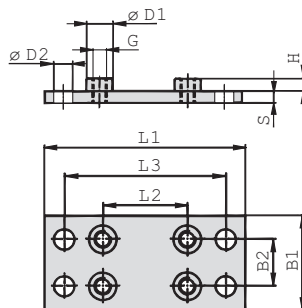
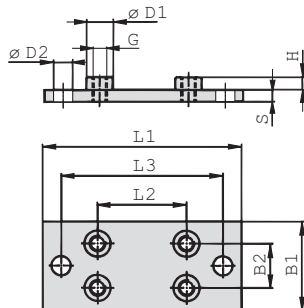
| Group<br>STAUFF | DIN | Dimensions (mm/in) |       |       |      |      | Thread G    | ØD1  | ØD2  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|-------|-------|------|------|-------------|------|------|--------------------------------------|
| 3S              | 1   | 113                | 33    | 85    | 30   | 8    | M10         | 18   | 13   | SPAL-DUEB-3S-M-W2                    |
|                 |     | 4.45               | 1.30  | 3.35  | 1.18 | .31  | 3/8-16 UNC  | .71  | .51  | SPAL-DUEB-3S-U-W2                    |
| 4S              | 2   | 125                | 45    | 97    | 30   | 8    | M10         | 18   | 13   | SPAL-DUEB-4S-M-W2                    |
|                 |     | 4.92               | 1.77  | 3.82  | 1.18 | .31  | 3/8-16 UNC  | .71  | .51  | SPAL-DUEB-4S-U-W2                    |
| 5S              | 3   | 140                | 60    | 112   | 30   | 8    | M10         | 18   | 13   | SPAL-DUEB-5S-M-W2                    |
|                 |     | 5.51               | 2.36  | 4.41  | 1.18 | .31  | 3/8-16 UNC  | .71  | .51  | SPAL-DUEB-5S-U-W2                    |
| 6S              | 4   | 187                | 90    | 155   | 45   | 10   | M12         | 20   | 16   | SPAL-DUEB-6S-M-W2                    |
|                 |     | 7.36               | 3.54  | 6.10  | 1.77 | .39  | 7/16-14 UNC | .78  | .62  | SPAL-DUEB-6S-U-W2                    |
| 7S              | 5   | 238                | 122   | 198   | 60   | 10   | M16         | 24   | 21   | SPAL-DUEB-7S-M-W2                    |
|                 |     | 9.37               | 4.80  | 7.80  | 2.36 | .39  | 5/8-11 UNC  | .94  | .83  | SPAL-DUEB-7S-U-W2                    |
| 8S              | 6   | 309                | 168   | 259   | 80   | 15   | M20         | 30   | 26   | SPAL-DUEB-8S-M-W1                    |
|                 |     | 12.17              | 6.61  | 10.20 | 3.15 | .59  | 3/4-10 UNC  | 1.18 | 1.02 | SPAL-DUEB-8S-U-W1                    |
| 9S              | 7   | 370                | 205   | 310   | 90   | 15   | M24         | 35   | 31   | SPAL-DUEB-9S-M-W1                    |
|                 |     | 14.57              | 8.07  | 12.20 | 3.54 | .59  | 7/8-9 UNC   | 1.38 | 1.22 | SPAL-DUEB-9S-U-W1                    |
| 10S             | 8   | 460                | 265   | 400   | 120  | 25   | M30         | 45   | 31   | SPAL-DUEB-10S-M-W1                   |
|                 |     | 18.11              | 10.43 | 15.75 | 4.72 | .98  | 1-1/8-7 UNC | 1.77 | 1.22 | SPAL-DUEB-10S-U-W1                   |
| 11S             | 9   | 590                | 395   | 530   | 160  | 30   | M30         | 50   | 31   | SPAL-DUEB-11S-M-W1                   |
|                 |     | 23.23              | 15.55 | 20.87 | 6.30 | 1.18 | 1-1/4-7 UNC | 1.97 | 1.22 | SPAL-DUEB-11S-U-W1                   |
| 12S             | 10  | 750                | 534   | 690   | 180  | 30   | M30         | 50   | 31   | SPAL-DUEB-12S-M-W1                   |
|                 |     | 29.53              | 21.02 | 27.17 | 7.09 | 1.50 | 1-1/4-7 UNC | 1.97 | 1.22 | SPAL-DUEB-12S-U-W1                   |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

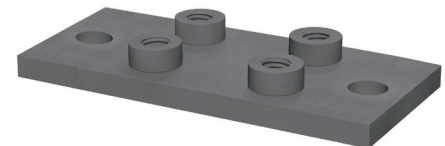
### Ordering Codes

#### Weld Plate \*SPAL-DUEB-\*3S-\*M-\*W2

|                                          |                                                                                                                                                                                                                 |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Elongated Weld Plate for Single Clamps | SPAL-DUEB                                                                                                                                                                                                       |
| * STAUFF Group                           | 3S                                                                                                                                                                                                              |
| * Thread code                            | Metric ISO thread<br>Unified coarse (UNC) thread                                                                                                                                                                |
| * Material code                          | Carbon Steel, uncoated<br>Carbon Steel, phosphated<br>Carbon Steel, zinc/nickel-plated<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |
|                                          | M<br>U<br>W1<br>W2<br>W3<br>W4<br>W5                                                                                                                                                                            |



## Elongated Weld Plate for Double Clamps Type SPAS-DUEB



Design for STAUFF Group 10S to 12S

#### STAUFF Group 3S to 9S

#### STAUFF Group 10S to 12S

| Group<br>STAUFF | DIN | Dimensions (mm/in) |       |       |       |      |      |      | Thread G    | ØD1  | ØD2  | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|-------|-------|-------|------|------|------|-------------|------|------|--------------------------------------|
| 3S              | 1   | 113                | 33    | 85    | 60    | 30.5 | 8    | 8    | M10         | 18   | 13   | SPAS-DUEB-3S-M-W2                    |
|                 |     | 4.45               | 1.30  | 3.35  | 2.36  | 1.20 | .31  | .31  | 3/8-16 UNC  | .71  | .51  | SPAS-DUEB-3S-U-W2                    |
| 4S              | 2   | 125                | 45    | 97    | 60    | 30.5 | 8    | 8    | M10         | 18   | 13   | SPAS-DUEB-4S-M-W2                    |
|                 |     | 4.92               | 1.77  | 3.82  | 2.36  | 1.20 | .31  | .31  | 3/8-16 UNC  | .71  | .51  | SPAS-DUEB-4S-U-W2                    |
| 5S              | 3   | 140                | 60    | 112   | 60    | 30.5 | 8    | 8    | M10         | 18   | 13   | SPAS-DUEB-5S-M-W2                    |
|                 |     | 5.51               | 2.36  | 4.41  | 2.36  | 1.20 | .31  | .31  | 3/8-16 UNC  | .71  | .51  | SPAS-DUEB-5S-U-W2                    |
| 6S              | 4   | 187                | 90    | 155   | 90    | 46   | 10   | 8    | M12         | 20   | 16   | SPAS-DUEB-6S-M-W2                    |
|                 |     | 7.36               | 3.54  | 6.10  | 3.54  | 1.81 | .39  | .31  | 7/16-14 UNC | .78  | .62  | SPAS-DUEB-6S-U-W2                    |
| 7S              | 5   | 238                | 122   | 198   | 120   | 61   | 10   | 12   | M16         | 24   | 21   | SPAS-DUEB-7S-M-W2                    |
|                 |     | 9.37               | 4.80  | 7.80  | 4.72  | 2.40 | .39  | .47  | 5/8-11 UNC  | .94  | .83  | SPAS-DUEB-7S-U-W2                    |
| 8S              | 6   | 309                | 168   | 259   | 160   | 81   | 15   | 18   | M20         | 30   | 26   | SPAS-DUEB-8S-M-W1                    |
|                 |     | 12.17              | 6.61  | 10.20 | 6.61  | 3.19 | .59  | .71  | 3/4-10 UNC  | 1.18 | 1.02 | SPAS-DUEB-8S-U-W1                    |
| 9S              | 7   | 370                | 205   | 310   | 180   | 91   | 15   | 21   | M24         | 35   | 31   | SPAS-DUEB-9S-M-W1                    |
|                 |     | 14.57              | 8.07  | 12.20 | 7.09  | 3.58 | .59  | .83  | 7/8-9 UNC   | 1.38 | 1.22 | SPAS-DUEB-9S-U-W1                    |
| 10S             | 8   | 460                | 265   | 400   | 240   | 121  | 25   | 21   | M30         | 45   | 31   | SPAS-DUEB-10S-M-W1                   |
|                 |     | 18.11              | 10.43 | 15.75 | 9.45  | 4.78 | .98  | .83  | 1-1/8-7 UNC | 1.77 | 1.22 | SPAS-DUEB-10S-U-W1                   |
| 11S             | 9   | 590                | 395   | 530   | 324   | 166  | 30   | 38   | M30         | 50   | 31   | SPAS-DUEB-11S-M-W1                   |
|                 |     | 23.23              | 15.55 | 20.87 | 12.76 | 6.54 | 1.18 | 1.50 | 1-1/4-7 UNC | 1.97 | 1.22 | SPAS-DUEB-11S-U-W1                   |
| 12S             | 10  | 750                | 534   | 690   | 364   | 186  | 30   | 38   | M30         | 50   | 31   | SPAS-DUEB-12S-M-W1                   |
|                 |     | 29.53              | 21.02 | 27.17 | 14.33 | 7.32 | 1.18 | 1.50 | 1-1/4-7 UNC | 1.97 | 1.22 | SPAS-DUEB-12S-U-W1                   |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Weld Plate \*SPAS-DUEB-\*3S-\*M-\*W2

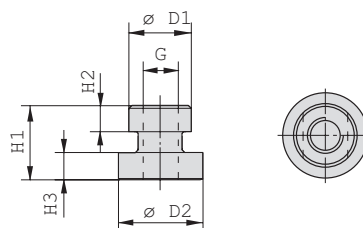
|                                          |                                                                                                                                                                                                                 |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Elongated Weld Plate for Double Clamps | SPAS-DUEB                                                                                                                                                                                                       |
| * STAUFF Group                           | 3S                                                                                                                                                                                                              |
| * Thread code                            | Metric ISO thread<br>Unified coarse (UNC) thread                                                                                                                                                                |
| * Material code                          | Carbon Steel, uncoated<br>Carbon Steel, phosphated<br>Carbon Steel, zinc/nickel-plated<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |
|                                          | M<br>U<br>W1<br>W2<br>W3<br>W4<br>W5                                                                                                                                                                            |



## Mounting Rail Nut

(for Use with Mounting Rail STSV)

### Type GMV



### Ordering Codes

#### Mounting Rail Nut \*GMV-\*3-5S\*M-\*W3

|                     |                                     |             |
|---------------------|-------------------------------------|-------------|
| * Mounting Rail Nut |                                     | <b>GMV</b>  |
| * STAUFF Group      | 3S to 5S (DIN Group 1 to 3)         | <b>3-5S</b> |
|                     | 6S (DIN Group 4)                    | <b>6S</b>   |
| * Thread code       | Metric ISO thread                   | <b>M</b>    |
|                     | Unified coarse (UNC) thread         | <b>U</b>    |
| * Material code     | Carbon Steel, zinc/nickel-plated    | <b>W3</b>   |
|                     | Stainless Steel V2A                 | <b>W4</b>   |
|                     | 1.4301 / 1.4305 (AISI 304 / 303)    |             |
|                     | Stainless Steel V4A                 | <b>W5</b>   |
|                     | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |             |

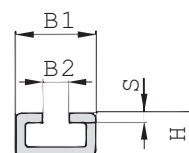
| Group  | DIN | Dimensions (mm/in) |           | H1        | H2         | H3         | Thread G           | Ordering Codes (Standard Options) |
|--------|-----|--------------------|-----------|-----------|------------|------------|--------------------|-----------------------------------|
| STAUFF |     | ØD1                | ØD2       |           |            |            |                    |                                   |
| 3S     | 1   |                    |           |           |            |            |                    |                                   |
| 4S     | 2   | 17,8<br>.70        | 24<br>.94 | 21<br>.83 | 7,6<br>.30 | 7,4<br>.29 | M10<br>3/8-16 UNC  | GMV-3-5S-M-W3<br>GMV-3-5S-U-W3    |
| 5S     | 3   |                    |           |           |            |            |                    |                                   |
| 6S     | 4   | 19,8<br>.78        | 24<br>.94 | 23<br>.91 | 8,8<br>.35 | 8,8<br>.35 | M12<br>7/16-14 UNC | GMV-6S-M-W3<br>GMV-6S-U-W3        |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Mounting Rail

(for Use with Mounting Rail Nut GMV)

### Type STSV



### Ordering Codes

#### Mounting Rail \*STSV-\*1M-\*W1

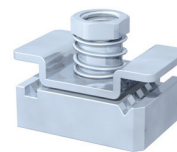
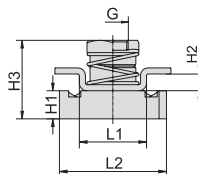
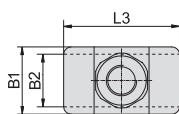
|                  |                                                                                     |             |
|------------------|-------------------------------------------------------------------------------------|-------------|
| * Mounting Rail  |                                                                                     | <b>STSV</b> |
| * Length of rail | 1 m / 3.28 ft                                                                       | <b>1M</b>   |
|                  | 2 m / 6.56 ft                                                                       | <b>2M</b>   |
|                  | Alternative lengths available upon request. Contact STAUFF for further information. |             |
| * Material code  | Carbon Steel, uncoated                                                              | <b>W1</b>   |
|                  | Carbon Steel, zinc-plated, blue-chromated                                           | <b>W32</b>  |
|                  | Stainless Steel V4A                                                                 | <b>W5</b>   |
|                  | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                                                 |             |

| Group  | DIN | Dimensions (mm/in) |     | H   | S   | Ordering Codes (Standard Options) |                               |
|--------|-----|--------------------|-----|-----|-----|-----------------------------------|-------------------------------|
| STAUFF |     | B1                 | B2  |     |     | Length of Rail: 1 m / 3.28 ft     | Length of Rail: 2 m / 6.56 ft |
| 3S     | 1   |                    |     |     |     |                                   |                               |
| 4S     | 2   | 40                 | 13  | 22  | 5   | STSV -1M-W1                       | STSV -2M-W1                   |
| 5S     | 3   | 1.57               | .51 | .86 | .19 |                                   |                               |
| 6S     | 4   |                    |     |     |     |                                   |                               |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Channel Rail Adaptor (for Use with Various Channel Rails) Type CRA



B

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G | L1          | L2         | L3         | B1        | B2          | H1         | H2         | H3           | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------------------|-------------|------------|------------|-----------|-------------|------------|------------|--------------|--------------------------------------|
| 3S              | 1   |                                |             |            |            |           |             |            |            |              |                                      |
| 4S              | 2   | M10<br>3/8-16 UNC              | 22<br>.87   | 35<br>1.38 | 38<br>1.50 | 22<br>.87 | 20,5<br>.81 | 9,2<br>.36 | 5,5<br>.22 | 27,5<br>1.08 | CRA-3-5S-M-W3<br>CRA-3-5S-U-W3       |
| 5S              | 3   |                                |             |            |            |           |             |            |            |              |                                      |
| 6S              | 4   | M12<br>7/16-14 UNC             | 21,5<br>.85 | 35<br>1.38 | 45<br>1.77 | 25<br>.98 | 19<br>.75   | 9,2<br>.36 | 5<br>.20   | 27,5<br>1.08 | CRA-6S-M-W3<br>CRA-6S-U-W3           |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Adaptor

**\*CRA-3-5S-M-W3**

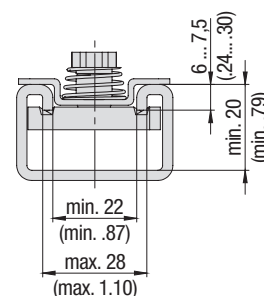
|                        |                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------|
| * Channel Rail Adaptor | CRA                                                                                            |
| * STAUFF Group         | 3S to 5S (DIN Group 1 to 3)<br>6S (DIN Group 4)                                                |
| * Thread code          | Metric ISO thread<br>Unified coarse (UNC) thread                                               |
| * Material code        | Carbon Steel, zinc/nickel-plated<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |

### Compatibility with Channel Rails

The STAUFF Channel Rail Adaptor, type CRA is suitable for various channel rails, including the following types:

| HALFEN             | HILTI                      | UNISTRUT®                                  | STAUFF (Cushion Clamp Series)           |
|--------------------|----------------------------|--------------------------------------------|-----------------------------------------|
| HM 41/41           | MQ-21, MQ-41, MQ-52, MQ-72 | P1000, P1000T, P1000V, P1000VT, P1001      | SCS-048-1-PL, SCS-048-1-GR              |
| HZA 41/22          | MQ-21U, MQ-41U, MQ-72U     | P2000, P2000T                              | SCS-120-1-PL, SCS-120-1-GR              |
| HZM 41/41          | MQ-21D, MQ-41D, MQ-52-72D  | P3003, P3003T, P3300V, P3300VT, P3301      | See page 149 for technical information. |
| HZM 41/22          |                            | P4000, P4000T                              |                                         |
| HL 41/41, HL 41/B2 |                            | P5000, P5000T, P5001, P5500, P5500T, P5501 |                                         |

Contact STAUFF to check compatibility with additional types of channel rails.



Basic dimensional  
requirements for  
channel rails to be  
used with STAUFF  
Channel Rail Adaptors,  
type CRA

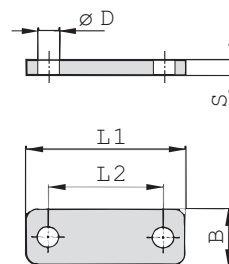
### Recommended Bolt Lengths when using the Channel Rail Adaptor, Type CRA

| Group<br>STAUFF | DIN | Hexagon Head Bolts AS (used with Cover Plates DPAL or DPAS)<br>Metric ISO thread | Unified coarse (UNC) thread | Socket Cap Screws IS (used without Cover Plates DPAL or DPAS)<br>Metric ISO thread | Unified coarse (UNC) thread |
|-----------------|-----|----------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-----------------------------|
| 3S              | 1   | M10 x 40                                                                         | 3/8-16 UNC x 1-1/2          | M10 x 25                                                                           | 3/8-16 UNC x 1              |
| 4S              | 2   | M10 x 55                                                                         | 3/8-16 UNC x 2-1/4          | M10 x 40                                                                           | 3/8-16 UNC x 1-1/2          |
| 5S              | 3   | M10 x 65                                                                         | 3/8-16 UNC x 2-3/4          | M10 x 50                                                                           | 3/8-16 UNC x 2              |
| 6S              | 4   | M12 x 100                                                                        | 7/16-14 UNC x 3-3/4         | M12 x 75                                                                           | 7/16-14 UNC x 3             |

Clamp assemblies including Channel Rail Adaptors, type CRA are supplied with the recommended bolt lengths by default. See page 48 for further information on ordering.



## Cover Plate for Single Clamps Type DPAL



### Ordering Codes

#### Cover Plate

**\*DPAL-\*3S-\*W2**

\* Cover Plate for Single Clamps

**DPAL**

\* STAUFF Group

**3S**

\* Material code

Carbon Steel, uncoated

**W1**

Carbon Steel, phosphated

**W2**

Carbon Steel, zinc/nickel-plated

**W3**

Stainless Steel V2A

**W4**

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

**W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

Aluminium EN AW-6060

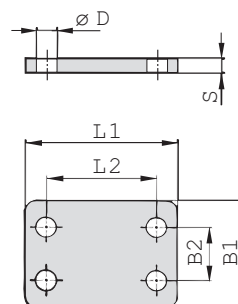
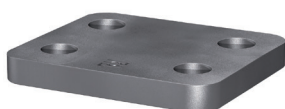
**W85**

(for group sizes 3S to 5S only)

| Group<br>STAUFF | DIN | Dimensions (mm/in) |       | B    | S    | ØD   | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|-------|------|------|------|--------------------------------------|
|                 |     | L1                 | L2    |      |      |      |                                      |
| 3S              | 1   | 55                 | 33    | 30   | 8    | 11   | DPAL-3S-W2                           |
|                 |     | 2.16               | 1.30  | 1.18 | .31  | .43  |                                      |
| 4S              | 2   | 70                 | 45    | 30   | 8    | 11   | DPAL-4S-W2                           |
|                 |     | 2.76               | 1.77  | 1.18 | .31  | .43  |                                      |
| 5S              | 3   | 85                 | 60    | 30   | 8    | 11   | DPAL-5S-W2                           |
|                 |     | 3.35               | 2.36  | 1.18 | .31  | .43  |                                      |
| 6S              | 4   | 115                | 90    | 45   | 10   | 14   | DPAL-6S-W2                           |
|                 |     | 4.53               | 3.54  | 1.77 | .39  | .55  |                                      |
| 7S              | 5   | 152                | 122   | 60   | 10   | 19   | DPAL-7S-W2                           |
|                 |     | 5.98               | 4.80  | 2.36 | .39  | .75  |                                      |
| 8S              | 6   | 206                | 168   | 80   | 15   | 22   | DPAL-8S-W1                           |
|                 |     | 8.11               | 6.61  | 3.15 | .59  | .87  |                                      |
| 9S              | 7   | 251                | 205   | 90   | 15   | 26   | DPAL-9S-W1                           |
|                 |     | 9.88               | 8.07  | 3.54 | .59  | 1.02 |                                      |
| 10S             | 8   | 320                | 265   | 120  | 25   | 35   | DPAL-10S-W1                          |
|                 |     | 12.60              | 10.43 | 4.72 | .98  | 1.38 |                                      |
| 11S             | 9   | 470                | 395   | 160  | 30   | 35   | DPAL-11S-W1                          |
|                 |     | 18.50              | 15.55 | 6.30 | 1.18 | 1.38 |                                      |
| 12S             | 10  | 630                | 534   | 180  | 30   | 35   | DPAL-12S-W1                          |
|                 |     | 24.80              | 21.02 | 7.09 | 1.18 | 1.38 |                                      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Cover Plate for Double Clamps Type DPAS



### Ordering Codes

#### Cover Plate

**\*DPAS-\*3S-\*W2**

\* Cover Plate for Double Clamps

**DPAS**

\* STAUFF Group

**3S**

\* Material code

Carbon Steel, uncoated

**W1**

Carbon Steel, phosphated

**W2**

Carbon Steel, zinc/nickel-plated

**W3**

Stainless Steel V2A

**W4**

1.4301 / 1.4305 (AISI 304 / 303)

Stainless Steel V4A

**W5**

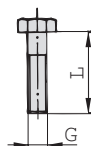
1.4401 / 1.4571 (AISI 316 / 316 Ti)

| Group<br>STAUFF | DIN | Dimensions (mm/in) |       |       |      | S    | ØD   | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|-------|-------|------|------|------|--------------------------------------|
|                 |     | L1                 | L2    | B1    | B2   |      |      |                                      |
| 3S              | 1   | 55                 | 33    | 60    | 30,5 | 8    | 11   | DPAS-3S-W2                           |
|                 |     | 2.16               | 1.30  | 2.36  | 1.20 | .31  | .43  |                                      |
| 4S              | 2   | 70                 | 45    | 60    | 30,5 | 8    | 11   | DPAS-4S-W2                           |
|                 |     | 2.76               | 1.77  | 2.36  | 1.20 | .31  | .43  |                                      |
| 5S              | 3   | 83                 | 60    | 60    | 30,5 | 8    | 11   | DPAS-5S-W2                           |
|                 |     | 3.27               | 2.36  | 2.36  | 1.20 | .31  | .43  |                                      |
| 6S              | 4   | 115                | 90    | 90    | 46   | 10   | 14   | DPAS-6S-W2                           |
|                 |     | 4.53               | 3.54  | 3.54  | 1.81 | .39  | .55  |                                      |
| 7S              | 5   | 152                | 122   | 120   | 61   | 10   | 19   | DPAS-7S-W2                           |
|                 |     | 5.98               | 4.80  | 4.72  | 2.40 | .39  | .75  |                                      |
| 8S              | 6   | 206                | 168   | 160   | 81   | 15   | 22   | DPAS-8S-W1                           |
|                 |     | 8.11               | 6.61  | 6.61  | 3.19 | .59  | .87  |                                      |
| 9S              | 7   | 251                | 205   | 180   | 91   | 15   | 26   | DPAS-9S-W1                           |
|                 |     | 9.88               | 8.07  | 7.09  | 3.58 | .59  | 1.02 |                                      |
| 10S             | 8   | 320                | 265   | 240   | 121  | 25   | 35   | DPAS-10S-W1                          |
|                 |     | 12.60              | 10.43 | 9.45  | 4.78 | .98  | 1.38 |                                      |
| 11S             | 9   | 470                | 395   | 321   | 166  | 30   | 35   | DPAS-11S-W1                          |
|                 |     | 18.50              | 15.55 | 12.64 | 6.54 | 1.18 | 1.38 |                                      |
| 12S             | 10  | 630                | 534   | 361   | 186  | 30   | 35   | DPAS-12S-W1                          |
|                 |     | 24.80              | 21.02 | 14.21 | 7.32 | 1.18 | 1.38 |                                      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Hexagon Head Bolt Type AS



### Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Cover Plates DPAL or DPAS

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes<br>(Standard Options) |
|-----------------|-----|------------------------------------|--------------------------------------|
| 3S              | 1   | M10 x 45                           | AS-M10x45-W1                         |
|                 |     | 3/8-16 UNC x 1-3/4                 | AS-3/8-16UNCx1-3/4-W3*               |
| 4S              | 2   | M10 x 60                           | AS-M10x60-W1                         |
|                 |     | 3/8-16 UNC x 2-1/4                 | AS-3/8-16UNCx2-1/4-W3*               |
| 5S              | 3   | M10 x 70                           | AS-M10x70-W1                         |
|                 |     | 3/8-16 UNC x 2-3/4                 | AS-3/8-16UNCx2-3/4-W3*               |
| 6S              | 4   | M12 x 100                          | AS-M12x100-W1                        |
|                 |     | 7/16-14 UNC x 4                    | AS-7/16-14UNCx4-W3*                  |
| 7S              | 5   | M16 x 130                          | AS-M16x130-W1                        |
|                 |     | 5/8-11 UNC x 5-1/4                 | AS-5/8-11UNCx5-1/4-W3*               |
| 8S              | 6   | M20 x 190                          | AS-M20x190-W1                        |
|                 |     | 3/4-10 UNC x 7-1/2                 | AS-3/4-10UNCx7-1/2-W1                |
| 9S              | 7   | M24 x 220                          | AS-M24x220-W1                        |
|                 |     | 7/8-9 UNC x 8-3/4                  | AS-7/8-9UNCx8-3/4-W1                 |
| 10S             | 8   | M30 x 300                          | AS-M30x300-W1                        |
|                 |     | 1-1/8-7 UNC x 12                   | AS-1-1/8-7UNCx12-W1                  |
| 11S             | 9   | M30 x 450                          | AS-M30x450-W1                        |
|                 |     | 1-1/4-7 UNC x 17-1/2               | AS-1-1/4-7UNCx17-1/2-W1              |
| 12S             | 10  | M30 x 560                          | AS-M30x560-W1                        |
|                 |     | 1-1/4-7 UNC x 22                   | AS-1-1/4-7UNCx22-W1                  |

### Ordering Codes

#### Hexagon Head Bolt \*AS-\*M10x70-\*W1

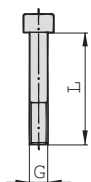
|                                                |                                                                              |        |
|------------------------------------------------|------------------------------------------------------------------------------|--------|
| * Type of bolt                                 | Hexagon Head Bolt<br>(according to DIN 931 / 933<br>or ANSI / ASME B18.2.1.) | AS     |
| * Thread type and size acc. to dimension table |                                                                              | M10x70 |
| * Material code                                | Carbon Steel, uncoated                                                       | W1     |
|                                                | Carbon Steel, zinc/nickel-plated                                             | W3     |
|                                                | Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)                      | W4     |
|                                                | Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)                   | W5     |

\* Standard finishing option for Heavy Series group sizes 3S to 7S in North America is W3 (Carbon Steel, zinc/nickel-plated).

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Socket Cap Screw Type IS



### Socket Cap Screw IS

(according to ISO 4762 or ANSI / ASME B18.3)

Dimensions applicable only when used without Cover Plates

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes<br>(Standard Options) |
|-----------------|-----|------------------------------------|--------------------------------------|
| 3S              | 1   | M10 x 30                           | IS-M10x30-W1                         |
|                 |     | 3/8-16 UNC x 1                     | IS-3/8-16UNCx1-W3*                   |
| 4S              | 2   | M10 x 40                           | IS-M10x40-W1                         |
|                 |     | 3/8-16 UNC x 1-3/4                 | IS-3/8-16UNCx1-3/4-W3*               |
| 5S              | 3   | M10 x 50                           | IS-M10x50-W1                         |
|                 |     | 3/8-16 UNC x 2                     | IS-3/8-16UNCx2-W3*                   |
| 6S              | 4   | M12 x 80                           | ISM12x80-W1                          |
|                 |     | 7/16-14 UNC x 3-1/4                | IS-7/16-14UNCx3-1/4-W3*              |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

\* Standard finishing option in North America is W3 (Carbon Steel, zinc/nickel-plated).



### Ordering Codes

#### Socket Cap Screw \*IS-\*M10x50-\*W1

|                                                |                                                                     |        |
|------------------------------------------------|---------------------------------------------------------------------|--------|
| * Type of Bolt                                 | Socket Cap Screw<br>(according to ISO 4762<br>or ANSI / ASME B18.3) | IS     |
| * Thread type and size acc. to dimension table |                                                                     | M10x50 |
| * Material code                                | Carbon Steel, uncoated                                              | W1     |
|                                                | Carbon Steel, zinc/nickel-plated                                    | W3     |
|                                                | Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)             | W4     |
|                                                | Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)          | W5     |

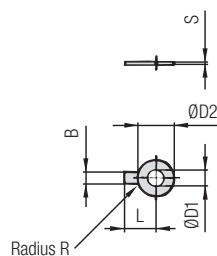




## Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 93)



**Safety Washer SI**

(Bend longer tab down towards the side of the clamp body  
and one side up towards one of the flats of the hexagon head bolt)

### Ordering Codes

**Safety Washer \*SI-\*10.5-\*DIN93-\*W3**

|                                 |                                                   |        |
|---------------------------------|---------------------------------------------------|--------|
| * Safety Washer                 |                                                   | SI     |
| * Exact inner diameter ØD1 (mm) |                                                   | 10.5   |
| * Type of washer                | Safety washer with 1 tab<br>(according to DIN 93) | DIN 93 |
| * Material code                 | Carbon Steel, zinc/nickel-plated                  | W3     |
|                                 | Stainless Steel V4A                               |        |
|                                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti)               | W5     |

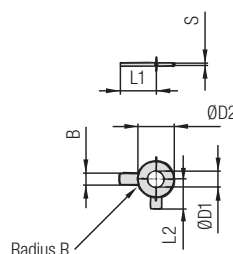
| Group  | DIN | Dimensions (mm/in) |      |      |      |     |      | Ordering Codes<br>(Standard Options) |
|--------|-----|--------------------|------|------|------|-----|------|--------------------------------------|
| STAUFF |     | ØD1                | B    | ØD2  | L    | R   | S    |                                      |
| 3S     | 1   | 10,5               | 10   | 26   | 22   | 4   | 0,75 | SI-10.5-DIN93-W3                     |
|        |     | .41                | .39  | 1.02 | .87  | .16 | .03  |                                      |
| 4S     | 2   | 10,5               | 10   | 26   | 22   | 4   | 0,75 | SI-10.5-DIN93-W3                     |
|        |     | .41                | .39  | 1.02 | .87  | .16 | .03  |                                      |
| 5S     | 3   | 10,5               | 10   | 26   | 22   | 4   | 0,75 | SI-10.5-DIN93-W3                     |
|        |     | .41                | .39  | 1.02 | .87  | .16 | .03  |                                      |
| 6S     | 4   | 13                 | 12   | 30   | 28   | 6   | 1    | SI-13-DIN93-W3                       |
|        |     | .51                | .47  | 1.18 | 1.10 | .24 | .04  |                                      |
| 7S     | 5   | 17                 | 15   | 36   | 32   | 6   | 1    | SI-17-DIN93-W3                       |
|        |     | .67                | .59  | 1.42 | 1.26 | .24 | .04  |                                      |
| 8S     | 6   | 21                 | 18   | 42   | 36   | 6   | 1    | SI-21-DIN93-W3                       |
|        |     | .83                | .71  | 1.65 | 1.42 | .24 | .04  |                                      |
| 9S     | 7   | 25                 | 20   | 50   | 42   | 6   | 1    | SI-25-DIN93-W3                       |
|        |     | .98                | .79  | 1.97 | 1.65 | .24 | .04  |                                      |
| 10S    | 8   | 31                 | 26   | 63   | 52   | 10  | 1,6  | SI-31-DIN93-W3                       |
|        |     | 1.22               | 1.02 | 2.48 | 2.05 | .39 | .06  |                                      |
| 11S    | 9   | 31                 | 26   | 63   | 52   | 10  | 1,6  | SI-31-DIN93-W3                       |
|        |     | 1.22               | 1.02 | 2.48 | 2.05 | .39 | .06  |                                      |
| 12S    | 10  | 31                 | 26   | 63   | 52   | 10  | 1,6  | SI-31-DIN93-W3                       |
|        |     | 1.22               | 1.02 | 2.48 | 2.05 | .39 | .06  |                                      |

Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Safety Washer

(for Use with Hexagon Head Bolt AS)

Type SI (DIN 463)



**Safety Washer SI**

(Bend longer tab down towards the side of the clamp body  
and shorter tab up towards one of the flats of the hexagon head bolt)

### Ordering Codes

**Safety Washer \*SI-\*10.5-\*DIN463-\*W3**

|                                 |                                                     |         |
|---------------------------------|-----------------------------------------------------|---------|
| * Safety Washer                 |                                                     | SI      |
| * Exact inner diameter ØD1 (mm) |                                                     | 10.5    |
| * Type of washer                | Safety washer with 2 tabs<br>(according to DIN 463) | DIN 463 |
| * Material code                 | Carbon Steel, zinc/nickel-plated                    | W3      |
|                                 | Stainless Steel V4A                                 | W5      |
|                                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                 |         |

| Group  | Dimensions <sup>(mm/in)</sup> |      |      |      |      |      |     |      | Ordering Codes<br>(Standard Options) |
|--------|-------------------------------|------|------|------|------|------|-----|------|--------------------------------------|
| STAUFF | DIN                           | ØD1  | B    | ØD2  | L1   | L2   | R   | S    |                                      |
| 3S     | 1                             | 10,5 | 10   | 21   | 22   | 13   | 4   | 0,75 | SI-10.5-DIN463-W3                    |
|        |                               | .41  | .39  | .83  | .87  | .51  | .16 | .03  |                                      |
| 4S     | 2                             | 10,5 | 10   | 21   | 22   | 13   | 4   | 1    | SI-10.5-DIN463-W3                    |
|        |                               | .41  | .39  | .83  | .87  | .51  | .16 | .04  |                                      |
| 5S     | 3                             | 10,5 | 10   | 21   | 22   | 13   | 4   | 1    | SI-10.5-DIN463-W3                    |
|        |                               | .41  | .39  | .83  | .87  | .51  | .16 | .04  |                                      |
| 6S     | 4                             | 13   | 12   | 24   | 28   | 15   | 6   | 1    | SI-13-DIN463-W3                      |
|        |                               | .51  | .47  | .94  | 1.10 | .59  | .24 | .04  |                                      |
| 7S     | 5                             | 17   | 15   | 30   | 32   | 18   | 6   | 1    | SI-17-DIN463-W3                      |
|        |                               | .67  | .59  | 1.18 | 1.26 | .71  | .24 | .04  |                                      |
| 8S     | 6                             | 21   | 18   | 37   | 36   | 21   | 6   | 1    | SI-21-DIN463-W3                      |
|        |                               | .83  | .71  | 1.46 | 1.42 | .83  | .24 | .04  |                                      |
| 9S     | 7                             | 25   | 20   | 44   | 42   | 25   | 6   | 1    | SI-25-DIN463-W3                      |
|        |                               | .98  | .79  | 1.73 | 1.65 | .98  | .24 | .04  |                                      |
| 10S    | 8                             | 31   | 26   | 56   | 52   | 32   | 10  | 1,6  | SI-31-DIN463-W3                      |
|        |                               | 1.22 | 1.02 | 2.20 | 2.05 | 1.26 | .39 | .06  |                                      |
| 11S    | 9                             | 31   | 26   | 56   | 52   | 32   | 10  | 1,6  | SI-31-DIN463-W3                      |
|        |                               | 1.22 | 1.02 | 2.20 | 2.05 | 1.26 | .39 | .06  |                                      |
| 12S    | 10                            | 31   | 26   | 56   | 52   | 32   | 10  | 1,6  | SI-31-DIN463-W3                      |
|        |                               | 1.22 | 1.02 | 2.20 | 2.05 | 1.26 | .39 | .06  |                                      |

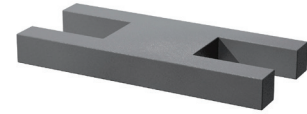
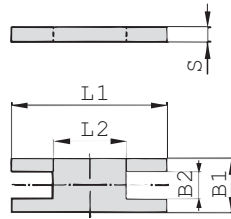
Safety Washers, type SI are used as locking devices to prevent Hexagon Head Bolts, type AS from loosening.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Safety Locking Plate

(for Use with Stacking Bolt AF)

### Type SIP


**B**

| Group | STAUFF | DIN | Dimensions (mm/in) |      | B1   | B2   | S   | Ordering Codes<br>(Standard Options) |
|-------|--------|-----|--------------------|------|------|------|-----|--------------------------------------|
|       |        |     | L1                 | L2   |      |      |     |                                      |
| 3S    | 1      |     | 57                 | 13   | 30   | 15,2 | 8   | SIP-3S-W2                            |
|       |        |     | 2.24               | .51  | 1.18 | .60  | .31 |                                      |
| 4S    | 2      |     | 70                 | 26   | 30   | 15,2 | 8   | SIP-4S-W2                            |
|       |        |     | 2.76               | 1.02 | 1.18 | .60  | .31 |                                      |
| 5S    | 3      |     | 85                 | 40   | 30   | 15,2 | 8   | SIP-5S-W2                            |
|       |        |     | 3.35               | 1.57 | 1.18 | .60  | .31 |                                      |
| 6S    | 4      |     | 116                | 68   | 45   | 17,2 | 10  | SIP-6S-W2                            |
|       |        |     | 4.57               | 2.68 | 1.77 | .68  | .39 |                                      |
| 7S    | 5      |     | 153                | 96   | 60   | 22   | 10  | SIP-7S-W2                            |
|       |        |     | 6.02               | 3.78 | 2.36 | .87  | .39 |                                      |
| 8S    | 6      |     | 206                | 130  | 80   | 28   | 15  | SIP-8S-W1                            |
|       |        |     | 8.11               | 5.12 | 3.15 | 1.10 | .59 |                                      |
| 9S    | 7      |     | 251                | 166  | 90   | 31   | 15  | SIP-9S-W1                            |
|       |        |     | 9.88               | 6.54 | 3.54 | 1.22 | .59 |                                      |
| 10S   | 8      |     | 317                | 205  | 120  | 49   | 25  | SIP-10S-W1                           |
|       |        |     | 12.48              | 8.07 | 4.72 | 1.93 | .98 |                                      |

## Ordering Codes

### Safety Locking Plate \*SIP-\*3S-\*W2

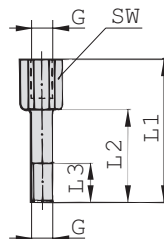
|                        |                                     |     |
|------------------------|-------------------------------------|-----|
| * Safety Locking Plate |                                     | SIP |
| * STAUFF Group         |                                     | 3S  |
| * Material code        | Carbon Steel, uncoated              | W1  |
|                        | Carbon Steel, phosphated            | W2  |
|                        | Carbon Steel, zinc/nickel-plated    | W3  |
|                        | Stainless Steel V2A                 | W4  |
|                        | 1.4301 / 1.4305 (AISI 304 / 303)    |     |
|                        | Stainless Steel V4A                 | W5  |
|                        | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |     |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Stacking Bolt

(for Use with Safety Locking Plate SIP)

### Type AF



| Group | STAUFF | DIN | Dimensions (mm/in) |       | L3 min. | Hex  | Thread G    | Ordering Codes<br>(Standard Options) |
|-------|--------|-----|--------------------|-------|---------|------|-------------|--------------------------------------|
|       |        |     | L1                 | L2    |         |      |             |                                      |
| 3S    | 1      |     | 49                 | 25    | 15      | 15   | M10         | AF-3S-M-W2                           |
|       |        |     | 1.93               | .98   | .59     | .59  | 3/8-16 UNC  | AF-3S-U-W3*                          |
| 4S    | 2      |     | 65                 | 40    | 15      | 15   | M10         | AF-4S-M-W2                           |
|       |        |     | 2.56               | 1.57  | .59     | .59  | 3/8-16 UNC  | AF-4S-U-W3*                          |
| 5S    | 3      |     | 77                 | 51    | 15      | 15   | M10         | AF-5S-M-W2                           |
|       |        |     | 3.03               | 2.01  | .59     | .59  | 3/8-16 UNC  | AF-5S-U-W3*                          |
| 6S    | 4      |     | 110                | 82    | 18      | 17   | M12         | AF-6S-M-W2                           |
|       |        |     | 4.33               | 3.23  | .71     | .67  | 7/16-14 UNC | AF-6S-U-W3*                          |
| 7S    | 5      |     | 144                | 110   | 24      | 22   | M16         | AF-7S-M-W2                           |
|       |        |     | 5.67               | 4.33  | .94     | .87  | 5/8-11 UNC  | AF-7S-U-W3*                          |
| 8S    | 6      |     | 200                | 150   | 30      | 27   | M20         | AF-8S-M-W2                           |
|       |        |     | 7.87               | 5.91  | 1.18    | 1.06 | 3/4-10 UNC  | AF-8S-U-W1*                          |
| 9S    | 7      |     | 240                | 180   | 50      | 30   | M24         | AF-9S-M-W2                           |
|       |        |     | 9.45               | 7.09  | 1.97    | 1.18 | 7/8-9 UNC   | AF-9S-U-W1*                          |
| 10S   | 8      |     | 331                | 256   | 62      | 46   | M30         | AF-10S-M-W2                          |
|       |        |     | 13.03              | 10.08 | 2.44    | 1.81 | 1-1/8-7 UNC | AF-10S-U-W1*                         |

## Ordering Codes

### Stacking Bolt \*AF-\*3S-\*M-\*W2

|                 |                                     |    |
|-----------------|-------------------------------------|----|
| * Stacking Bolt |                                     | AF |
| * STAUFF Group  |                                     | 3S |
| * Thread code   | Metric ISO thread                   | M  |
|                 | Unified coarse (UNC) thread         | U  |
| * Material code | Carbon Steel, uncoated              | W1 |
|                 | Carbon Steel, phosphated            | W2 |
|                 | Carbon Steel, zinc/nickel-plated    | W3 |
|                 | Stainless Steel V2A                 | W4 |
|                 | 1.4301 / 1.4305 (AISI 304 / 303)    |    |
|                 | Stainless Steel V4A                 | W5 |
|                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |    |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

\* Standard finishing option for Heavy Series group sizes 3S to 7S in North America is W3 (Carbon Steel, zinc/nickel-plated). Standard finishing option for Heavy Series group sizes 8S to 10S in North America is W1 (Carbon Steel, uncoated).



**SPAL** - **3006** - **PP** - **DPAL-AS** - **M** - **W12** - **K**

①      ②      ③      ④      ⑤      ⑥      ⑦

## ① Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding Code to position ① of the order code for your clamp assembly.



**Without Installation Equipment**  
Code: **none**

### Installation on Weld Plate



**Weld Plate for Single Clamps**  
Code: **SPAL**



**Weld Plate for Double Clamps**  
Code: **SPAS**



**Elongated Weld Plate for Single Clamps**  
Code: **SPAL-DUEB**



**Elongated Weld Plate for Double Clamps**  
Code: **SPAS-DUEB**

### Installation on Mounting / Channel Rail



**Mounting Rail Nut**  
Code: **GMV** (for STAUFF Group 3S to 6S only)



**Channel Rail Adaptor**  
Code: **CRA** (for STAUFF Group 3S to 6S only)

## ② Group Size & Diameter

Please select the required group size and diameter and add the corresponding Code to position ② of the order code for your clamp assembly.

| Group        | Outside Diameter | Availability of Clamp Body Materials & Designs |        |         |        |
|--------------|------------------|------------------------------------------------|--------|---------|--------|
| STAUFF (DIN) | P / T / H (mm)   | Profiled Design                                | Type H | Type RI | Code   |
| 3S (1)       | 6                | ●                                              | ●      | ○       | 3006   |
|              | 6,4              | ●                                              | ●      | ○       | 3006.4 |
|              | 8                | ●                                              | ●      | ○       | 3008   |
|              | 9,5              | ●                                              | ●      | ○       | 3009.5 |
|              | 10               | ●                                              | ●      | ○       | 3010   |
|              | 12               | ●                                              | ●      | ○       | 3012   |
|              | 12,7             | ●                                              | ●      | ○       | 3012.7 |
|              | 13,5             | ●                                              | ●      | ○       | 3013.5 |
|              | 14               | ●                                              | ●      | ○       | 3014   |
|              | 15               | ●                                              | ●      | ○       | 3015   |
|              | 16               | ●                                              | ●      | ○       | 3016   |
|              | 17,2             | ●                                              | ●      | ○       | 3017.2 |
|              | 18               | ●                                              | ●      | ○       | 3018   |
|              | 20               | ●                                              | ○      | ○       | 3020   |

## ② Group Size & Diameter CONTINUATION

| Group        | Outside Diameter | Availability of Clamp Body Materials & Designs |        |         |        |
|--------------|------------------|------------------------------------------------|--------|---------|--------|
| STAUFF (DIN) | P / T / H (mm)   | Profiled Design                                | Type H | Type RI | Code   |
| 4S (2)       | 6                | ○                                              | ○      | ●       | 4006   |
|              | 8                | ○                                              | ○      | ●       | 4008   |
|              | 10               | ○                                              | ○      | ●       | 4010   |
|              | 12               | ○                                              | ○      | ●       | 4012   |
|              | 12,7             | ○                                              | ○      | ●       | 4012.7 |
|              | 14               | ○                                              | ○      | ●       | 4014   |
|              | 15               | ○                                              | ○      | ●       | 4015   |
|              | 16               | ○                                              | ○      | ●       | 4016   |
|              | 17,2             | ○                                              | ○      | ●       | 4017.2 |
|              | 18               | ○                                              | ○      | ●       | 4018   |
|              | 19               | ●                                              | ●      | ○       | 4019   |
|              | 20               | ●                                              | ●      | ○       | 4020   |
|              | 21,3             | ●                                              | ●      | ○       | 4021.3 |
|              | 22               | ●                                              | ●      | ○       | 4022   |
|              | 25               | ●                                              | ●      | ○       | 4025   |
| 5S (3)       | 25,4             | ●                                              | ●      | ○       | 4025.4 |
|              | 26,9             | ●                                              | ●      | ○       | 4026.9 |
|              | 28               | ●                                              | ●      | ○       | 4028   |
|              | 30               | ●                                              | ●      | ○       | 4030   |
|              | 20               | ○                                              | ○      | ●       | 5020   |
|              | 21,3             | ○                                              | ○      | ●       | 5021.3 |
|              | 22               | ○                                              | ○      | ●       | 5022   |
|              | 25               | ○                                              | ○      | ●       | 5025   |
|              | 26,9             | ○                                              | ○      | ●       | 5026.9 |
|              | 28               | ○                                              | ○      | ●       | 5028   |
|              | 30               | ●                                              | ●      | ○       | 5030   |
|              | 32               | ●                                              | ●      | ○       | 5032   |
|              | 33,7             | ●                                              | ●      | ○       | 5033.7 |
|              | 35               | ●                                              | ●      | ○       | 5035   |
|              | 38               | ●                                              | ●      | ○       | 5038   |
| 6S (4)       | 40               | ●                                              | ●      | ○       | 5040   |
|              | 41,3             | ●                                              | ●      | ○       | 5041.3 |
|              | 42               | ●                                              | ●      | ○       | 5042   |
|              | 32               | ○                                              | ○      | ●       | 6032   |
|              | 33,7             | ○                                              | ○      | ●       | 6033.7 |
|              | 35               | ○                                              | ○      | ●       | 6035   |
|              | 38               | ●                                              | ●      | ○       | 6038   |
|              | 38,7             | ○                                              | ○      | ●       | 6038.7 |
|              | 40               | ○                                              | ○      | ●       | 6040   |
|              | 42               | ●                                              | ●      | ○       | 6042   |
|              | 44,5             | ●                                              | ●      | ○       | 6044.5 |
|              | 45,5             | ○                                              | ○      | ●       | 6045.5 |
|              | 48               | ○                                              | ○      | ●       | 6048   |
|              | 48,3             | ●                                              | ●      | ○       | 6048.3 |
|              | 50,8             | ●                                              | ●      | ○       | 6050.8 |
|              | 51               | ○                                              | ○      | ●       | 6051   |
|              | 53,4             | ○                                              | ○      | ●       | 6053.4 |
|              | 54               | ●                                              | ○      | ○       | 6054   |

## ② Group Size & Diameter CONTINUATION

| Group        | Outside Diameter | Availability of Clamp Body Materials & Designs |        |         |         |
|--------------|------------------|------------------------------------------------|--------|---------|---------|
| STAUFF (DIN) | P / T / H (mm)   | Profiled Design                                | Type H | Type RI | Code    |
| 6S (4)       | 55               | ●                                              | ●      | ○       | 6055    |
|              | 56,4             | ○                                              | ○      | ●       | 6056.4  |
|              | 57               | ●                                              | ●      | ○       | 6057    |
|              | 57,2             | ●                                              | ●      | ○       | 6057.2  |
|              | 60,3             | ●                                              | ●      | ○       | 6060.3  |
|              | 63,5             | ●                                              | ●      | ○       | 6063.5  |
|              | 65               | ●                                              | ●      | ○       | 6065    |
|              | 70               | ●                                              | ●      | ○       | 6070    |
|              | 55               | ○                                              | ○      | ●       | 7055    |
|              | 57               | ○                                              | ○      | ●       | 7057    |
| 7S (5)       | 60               | ○                                              | ○      | ●       | 7060    |
|              | 60,3             | ●                                              | ○      | ○       | 7060.3  |
|              | 63,5             | ○                                              | ○      | ●       | 7063.5  |
|              | 65               | ●                                              | ○      | ●       | 7065    |
|              | 70               | ●                                              | ○      | ●       | 7070    |
|              | 72               | ○                                              | ○      | ●       | 7072    |
|              | 73               | ●                                              | ○      | ○       | 7073    |
|              | 75               | ●                                              | ○      | ○       | 7075    |
|              | 76               | ○                                              | ○      | ●       | 7076    |
|              | 76,1             | ●                                              | ○      | ○       | 7076.1  |
| 8S (6)       | 80               | ●                                              | ○      | ○       | 7080    |
|              | 82,5             | ●                                              | ○      | ○       | 7082.5  |
|              | 88,9             | ●                                              | ○      | ○       | 7088.9  |
|              | 80               | ○                                              | ○      | ●       | 8080    |
|              | 88,9             | ●                                              | ○      | ●       | 8088.9  |
|              | 100              | ●                                              | ○      | ○       | 8100    |
|              | 102              | ●                                              | ○      | ●       | 8102    |
|              | 108              | ●                                              | ○      | ○       | 8108    |
|              | 114              | ●                                              | ○      | ○       | 8114    |
|              | 127              | ●                                              | ○      | ○       | 8127    |
| 9S (7)       | 133              | ●                                              | ○      | ○       | 8133    |
|              | 114              | ○                                              | ○      | ●       | 9114    |
|              | 127              | ●                                              | ○      | ○       | 9127    |
|              | 133              | ●                                              | ○      | ●       | 9133    |
|              | 140              | ●                                              | ○      | ●       | 9140    |
|              | 152              | ●                                              | ○      | ○       | 9152    |
|              | 159              | ●                                              | ○      | ○       | 9159    |
|              | 165              | ●                                              | ○      | ○       | 9165    |
|              | 168              | ●                                              | ○      | ○       | 9168    |
|              | 150              | ○                                              | ○      | ●       | 10150   |
| 10S (8)      | 165              | ○                                              | ○      | ●       | 10165   |
|              | 168              | ●                                              | ○      | ●       | 10168   |
|              | 172              | ○                                              | ○      | ●       | 10172   |
|              | 177,8            | ●                                              | ○      | ○       | 10177.8 |
|              | 193,7            | ●                                              | ○      | ○       | 10193.7 |
|              | 203              | ●                                              | ○      | ○       | 10203   |
|              | 216              | ●                                              | ○      | ○       | 10216   |
|              | 219              | ●                                              | ○      | ○       | 10219   |
|              | 219              | ●                                              | ○      | ○       | 11219   |
|              | 273              | ●                                              | ○      | ○       | 11273   |
| 11S (9)      | 324              | ●                                              | ○      | ○       | 11324   |
| 12S (10)     | 356              | ●                                              | ○      | ○       | 12356   |
|              | 406              | ●                                              | ○      | ○       | 12406   |

● Standard Option



Please see pages 50 and 51 with detailed order examples for some of the most popular Heavy Series clamp assemblies.

### ③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.


Please check the availability of the selected clamp body design and material according to the matrix table in ②.

#### Profiled Design

 **Polypropylene**  
Code: **PP**

 **Polypropylene** (Colour: Black)  
Code: **PP-BK**

 **Polyamide**  
Code: **PA**

 **Thermoplastic Elastomer** (87 Shore-A)  
Code: **SA** (for STAUFF Group 3S to 6S only)

 **Aluminium**  
Code: **AL**

#### Type H (Smooth)

 **Polypropylene**  
Code: **PP-H** (for STAUFF Group 3S to 6S only)

 **Polypropylene** (Colour: Black; 3S to 6S only)  
Code: **PP-H-BK**

 **Polyamide**  
Code: **PA-H** (for STAUFF Group 3S to 6S only)

 **Thermoplastic Elastomer** (87 Shore-A)  
Code: **SA-H** (for STAUFF Group 3S to 6S only)

#### Type RI (with Elastomer Insert)

 **Polypropylene**  
Code: **PP-R** (for STAUFF Group 4S to 10S only)

 **Polyamide**  
Code: **PA-R** (for STAUFF Group 4S to 10S only)

See pages 154 / 155 for material properties and technical information.

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

### ④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. bolts, screws, cover plates etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

#### Installation with Cover Plate and Bolts

**Cover Plate for Single Clamps DPAL with Hexagon Head Bolts AS**  
Code: **DPAL-AS**

**Cover Plate for Double Clamps DPAS with Hexagon Head Bolts AS**  
Code: **DPAS-AS**

**Cover Plate for Single Clamps DPAL with Socket Cap Screws IS\***  
Code: **DPAL-IS** (for STAUFF Group 3S to 6S only)

#### Installation with Locking Plate and Bolts

**Safety Locking Plate SIP with Stacking Bolts AF**  
Code: **SIP-AF**

#### Installation with Bolts only

**Socket Cap Screws IS**  
Code: **IS**

\* Special lengths of Socket Cap Screws IS required.  
For exact lengths, please see details of Hexagon Head Bolt, type AS  
(for use with Cover Plates DPAL or DPAS) on page 45.

### ⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

**Metric ISO thread**  
Code: **M**

**Unified coarse (UNC) thread**  
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

### ⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, uncoated **W1**

Metal parts made of Carbon Steel, phosphated **W2**

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W12**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W13**

Weld Plate / Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W15**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W16**

Safety Locking Plate made of Carbon Steel, phosphated; Stacking Bolts made of Carbon Steel, zinc/nickel-plated **W17**

Safety Locking Plate made of Carbon Steel, uncoated; Stacking Bolts made of Carbon Steel, phosphated **W18**

Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W19**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### ⑦ Assembling & Kitting

If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.

**Components supplied separately**  
Code: **none** (standard option)

**Components assembled**  
Code: **A** (special option)

**Components packed in kits**  
Code: **K** (special option)



B

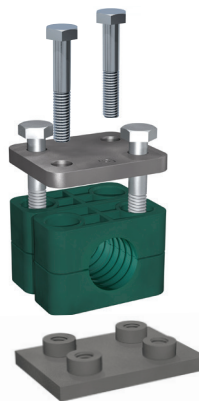


- 2x **Hexagon Head Bolt**  
Surface: W1  
Thread: Metric
- 1x **Cover Plate for Single Clamps**  
Surface: W2
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 1x **Weld Plate for Single Clamps**  
Surface: W2  
Thread: Metric

### Order Code

**SPAL-3006-PP-DPAL-AS-M-W12**

**W12** (STAUFF Group 3S to 7S) and **W1** (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 4x **Hexagon Head Bolt**  
Surface: W1  
Thread: Metric
- 1x **Cover Plate for Double Clamps**  
Surface: W2
- 2x **Clamp Body** (four halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 1x **Weld Plate for Double Clamps**  
Surface: W2  
Thread: Metric

### Order Code

**SPAS-3006-PP-DPAS-AS-M-W12**

**W12** (STAUFF Group 3S to 7S) and **W1** (STAUFF Group 8S to 12S) are the standard options for this type of installation.

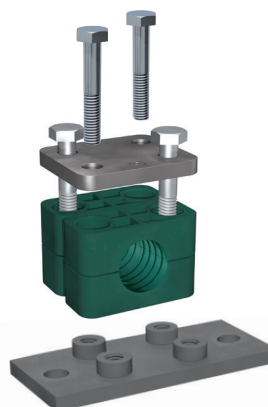


- 2x **Hexagon Head Bolt**  
Surface: W1  
Thread: Metric
- 1x **Cover Plate for Single Clamps**  
Surface: W2
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Single Clamps**  
Surface: W2  
Thread: Metric

### Order Code

**SPAL-DUEB-3006-PP-DPAL-AS-M-W12**

**W12** (STAUFF Group 3S to 7S) and **W1** (STAUFF Group 8S to 12S) are the standard options for this type of installation.

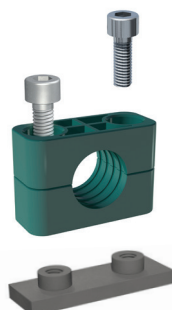


- 4x **Hexagon Head Bolt**  
Surface: W1  
Thread: Metric
- 1x **Cover Plate for Double Clamps**  
Surface: W2
- 2x **Clamp Body** (four halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Double Clamps**  
Surface: W2  
Thread: Metric

### Order Code

**SPAS-DUEB-3006-PP-DPAS-AS-M-W12**

**W12** (STAUFF Group 3S to 7S) and **W1** (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 2x **Socket Cap Screw**  
Surface: W1  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 1x **Weld Plate for Single Clamps**  
Surface: W2  
Thread: Metric

### Order Code

**SPAL-3006-PP-IS-M-W12**

**W12** is the standard option for this type of installation.  
Available up to STAUFF Group 6S (DIN Group 4) only.



- 2x **Socket Cap Screw**  
Surface: W1  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 1x **Elongated Weld Plate for Single Clamps**  
Surface: W2  
Thread: Metric

### Order Code

**SPAS-DUEB-3006-PP-IS-M-W12**

**W12** is the standard option for this type of installation.  
Available up to STAUFF Group 6S (DIN Group 4) only.







- 2x **Hexagon Head Bolt**  
Surface: W1  
Thread: Metric
- 1x **Cover Plate for Single Clamps**  
Surface: W2
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 2x **Mounting Rail Nut**  
Surface: W3  
Thread: Metric

**Order Code** (Mounting Rail STSV not included.)

**GMV-3006-PP-DPAL-AS-M-W13**

**W13** is the standard option for this type of installation.  
Available up to STAUFF Group 6S (DIN Group 4) only.



- 2x **Socket Cap Screw**  
Surface: W1  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance
- 2x **Mounting Rail Nut**  
Surface: W3  
Thread: Metric

**Order Code** (Mounting Rail STSV not included.)

**GMV-3006-PP-IS-M-W13**

**W13** is the standard option for this type of installation.  
Available up to STAUFF Group 6S (DIN Group 4) only.

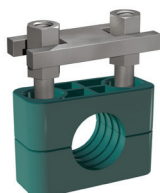


- 2x **Hexagon Head Bolt**  
Surface: W1  
Thread: Metric
- 1x **Cover Plate for Single Clamps**  
Surface: W2
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance

**Order Code**

**3006-PP-DPAL-AS-M-W19**

**W19** (STAUFF Group 3S to 7S) and **W1** (STAUFF Group 8S to 12S) are the standard options for this type of installation.



- 2x **Stacking Bolt**  
Surface: W2  
Thread: Metric
- 1x **Safety Locking Plate**  
Surface: W2
- 1x **Clamp Body** (two halves)  
STAUFF Group 3S (DIN 1)  
O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface with tension clearance

**Order Code**

**3006-PP-SIP-AF-M-W2**

**W2** (STAUFF Group 3S to 7S) and **W18** (STAUFF Group 8S to 10S) are the standard options for this type of installation. Available up to STAUFF Group 10S (DIN Group 8) only.

## Thread codes

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

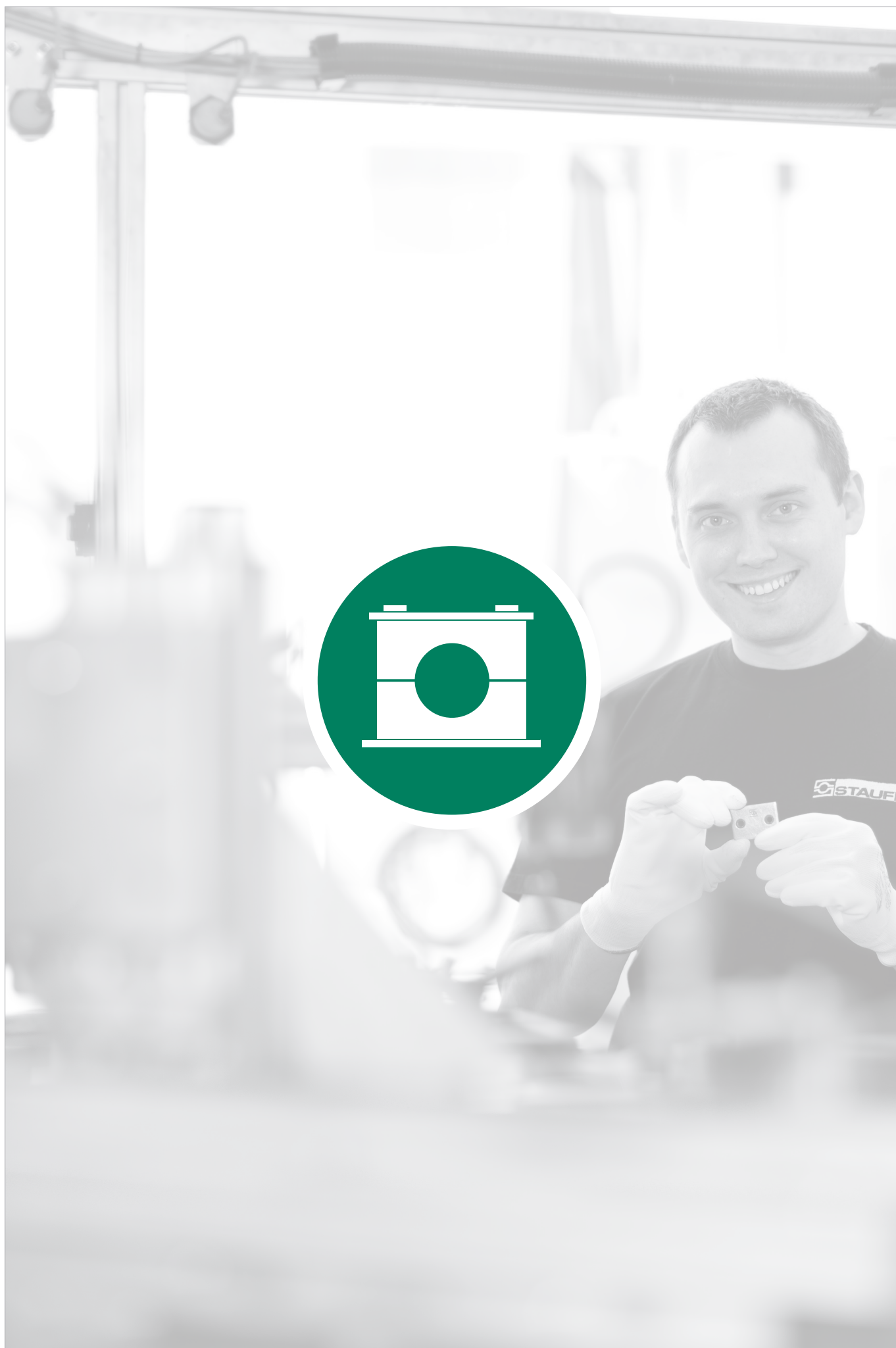
|                             |          |
|-----------------------------|----------|
| Metric ISO thread           | <b>M</b> |
| Unified coarse (UNC) thread | <b>U</b> |

## Material codes

The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Heavy Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

|                                                                                                                                                           |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Metal parts made of Carbon Steel, uncoated                                                                                                                | <b>W1</b>  |
| Metal parts made of Carbon Steel, phosphated                                                                                                              | <b>W2</b>  |
| Metal parts made of Carbon Steel, zinc/nickel-plated                                                                                                      | <b>W3</b>  |
| Metal parts made of Stainless Steel V2A: 1.4301 / 1.4305 (AISI 304 / 303)                                                                                 | <b>W4</b>  |
| Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 316 Ti)                                                                              | <b>W5</b>  |
| Weld Plate made of Carbon Steel, phosphated;                                                                                                              |            |
| Other metal parts made of Carbon Steel, zinc/nickel-plated                                                                                                | <b>W10</b> |
| Weld Plate and Cover Plate made of Carbon Steel, phosphated;                                                                                              |            |
| Bolts made of Carbon Steel, uncoated                                                                                                                      | <b>W12</b> |
| Mounting Rails Nut made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated           | <b>W13</b> |
| Weld Plate and Cover Plate made of Carbon Steel, phosphated;                                                                                              |            |
| Bolts made of Carbon Steel, zinc/nickel-plated                                                                                                            | <b>W15</b> |
| Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated | <b>W16</b> |
| Safety Locking Plate made of Carbon Steel, phosphated;                                                                                                    |            |
| Bolts made of Carbon Steel, zinc/nickel-plated                                                                                                            | <b>W17</b> |
| Safety Locking Plate made of Carbon Steel, uncoated;                                                                                                      |            |
| Bolts made of Carbon Steel, phosphated                                                                                                                    | <b>W18</b> |
| Cover Plate made of Carbon Steel, phosphated;                                                                                                             |            |
| Bolts made of Carbon Steel, uncoated                                                                                                                      | <b>W19</b> |







**Clamp Body**  
Profiled Inside Surface with Tension Clearance

54



**Clamp Body**  
Smooth Inside Surface without Tension Clearance

54



**Single Weld Plate**

SP

55



**Group Weld Plate**

RAP

55



**Hexagon Rail Nut**

SM

56



**Mounting Rail**

TS

56



**Channel Rail Adaptor**

CRA

57



**Cover Plate**

GD

58



**Hexagon Head Bolt**

AS

58



**Socket Cap Screw**

IS

59



**Safety Locking Plate**

SI

60



**Safety Locking Plate**

SIV

60



**Stacking Bolt**

AF

61

**Clamp Assemblies**

62

C

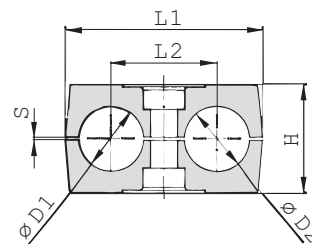
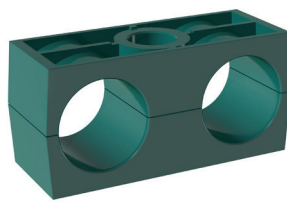
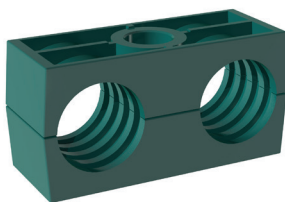


## Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance

## Clamp Body ▪ Type H

Smooth Inside Surface w/o Tension Clearance



## Ordering Codes

## Clamp Body

\*1\*06/06\*-PP

One clamp body is consisting of two clamp halves.

- \* 1<sup>st</sup> Part of STAUFF Group
- \* Exact outside diameters Ø D1 / Ø D2 (mm)
- \* Material code (see below)

1  
06/06  
PP

## Designs &amp; Standard Materials



## Polypropylene ▪ Profiled Design

Profiled inside surface with tension clearance

Colour: Green

Material code: **PP**

## Polypropylene ▪ Profiled Design

Profiled inside surface with tension clearance

Colour: Black

Material code: **PP-BK**

## Polypropylene ▪ Type H

Smooth inside surface without tension clearance

Colour: Green

Material code: **PP-H**

## Polypropylene ▪ Type H

Smooth inside surface without tension clearance

Colour: Black

Material code: **PP-H-BK**

## Polyamide ▪ Profiled Design

Profiled inside surface with tension clearance

Colour: Black

Material code: **PA**

## Polyamide ▪ Type H

Smooth inside surface without tension clearance

Colour: Black

Material code: **PA-H**

See pages 154 / 155 for properties and technical information.

## Special Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

## Product Features

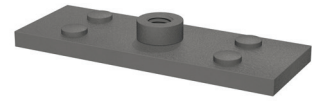
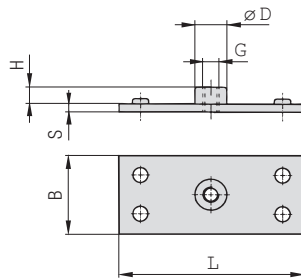
- Proven, tested and trusted product in various markets
- Profiled design recommended for the safe installation of rigid pipes and tubes; type H recommended for the safe installation of hoses and cables
- Available for all commonly used pipe and tube outside diameters
- Environmental protection due to vibration/noise reducing design
- Excellent weathering resistance, even under extreme conditions

| Group | STAUFF | DIN | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D1 / Ø D2<br>(mm) (in) |       | Nominal Bore<br>Copper Tube<br>ASTM B88<br>Pipe (in) | Ordering Codes<br>(2 Clamp Halves)<br>(**-* = Material) | Dimensions (mm/in) |      |      |        |        |       |
|-------|--------|-----|--------------------------------------------------------------------|-------|------------------------------------------------------|---------------------------------------------------------|--------------------|------|------|--------|--------|-------|
|       |        |     |                                                                    |       |                                                      |                                                         | L1                 | L2   | H    | S min. | Type H | Width |
| 1D    | 1      | 1   | 6                                                                  |       |                                                      | 106/06-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 6,4                                                                | 1/4   |                                                      | 106.4/06.4-**-*                                         |                    |      |      |        |        |       |
|       |        |     | 8                                                                  | 5/16  |                                                      | 108/08-**-*                                             | 36                 | 20   | 27   | 0,6    | 26,5   | 30    |
|       |        |     | 9,5                                                                | 3/8   | 1/4                                                  | 109.5/09.5-**-*                                         | 1.42               | .79  | 1.06 | .02    | 1.04   | 1.18  |
|       |        |     | 10                                                                 |       | 1/8                                                  | 110/10-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 12                                                                 |       |                                                      | 112/12-**-*                                             |                    |      |      |        |        |       |
| 2D    | 2      | 2   | 12,7                                                               | 1/2   | 3/8                                                  | 212.7/12.7-**-*                                         |                    |      |      |        |        |       |
|       |        |     | 13,5                                                               |       | 1/4                                                  | 213.5/13.5-**-*                                         |                    |      |      |        |        |       |
|       |        |     | 14                                                                 |       |                                                      | 214/14-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 15                                                                 |       |                                                      | 215/15-**-*                                             | 53                 | 29   | 27   | 0,7    | 26     | 30    |
|       |        |     | 16                                                                 | 5/8   | 1/2                                                  | 216/16-**-*                                             | 2.09               | 1.14 | 1.06 | .03    | 1.02   | 1.18  |
|       |        |     | 17,2                                                               |       | 3/8                                                  | 217.2/17.2-**-*                                         |                    |      |      |        |        |       |
| 3D    | 3      | 3   | 18                                                                 |       |                                                      | 218/18-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 19                                                                 | 3/4   |                                                      | 319/19-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 20                                                                 |       |                                                      | 320/20-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 21,3                                                               |       | 1/2                                                  | 321.3/21.3-**-*                                         | 67                 | 36   | 37   | 0,7    | 36,5   | 30    |
|       |        |     | 22                                                                 | 7/8   | 3/4                                                  | 322/22-**-*                                             | 2.64               | 1.42 | 1.46 | .03    | 1.44   | 1.18  |
|       |        |     | 25                                                                 |       |                                                      | 325/25-**-*                                             |                    |      |      |        |        |       |
| 4D    | 4      | 4   | 25,4                                                               | 1     |                                                      | 325.4/25.4-**-*                                         |                    |      |      |        |        |       |
|       |        |     | 26,9                                                               |       | 3/4                                                  | 426.9/26.9-**-*                                         |                    |      |      |        |        |       |
|       |        |     | 28                                                                 |       |                                                      | 428/28-**-*                                             | 80                 | 45   | 40   | 0,7    | 38     | 30    |
| 5D    | 5      | 5   | 30                                                                 |       |                                                      | 430/30-**-*                                             | 3.15               | 1.77 | 1.57 | .03    | 1.46   | 1.18  |
|       |        |     | 32                                                                 | 1-1/4 |                                                      | 532/32-**-*                                             |                    |      |      |        |        |       |
|       |        |     | 33,7                                                               |       | 1                                                    | 533.7/33.7-**-*                                         |                    |      |      |        |        |       |
|       |        |     | 35                                                                 |       | 1-1/4                                                | 535/35-**-*                                             | 106                | 56   | 53   | 0,7    | 52     | 30    |
|       |        |     | 38                                                                 | 1-1/2 |                                                      | 538/38-**-*                                             | 4.17               | 2.20 | 2.09 | .03    | 2.04   | 1.18  |
|       |        |     | 40                                                                 |       |                                                      | 540/40-**-*                                             |                    |      |      |        |        |       |
| 5D    | 5      | 5   | 42                                                                 |       | 1-1/4                                                | 542/42-**-*                                             |                    |      |      |        |        |       |

Additional outside diameters and combinations of different outside diameters are available upon request.  
Please contact STAUFF for further information.



## Single Weld Plate Type SP



| Group<br>STAUFF | DIN | Dimensions (mm/in) |      |     |     |     |             | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|------|-----|-----|-----|-------------|--------------------------------------|
|                 |     | L                  | B    | S   | H   | ØD  | Thread G    |                                      |
| 1D              | 1   | 37                 | 30   | 3   | 6,5 | 12  | M6          | SP-1D-M-W2                           |
|                 |     | 1.46               | 1.18 | .12 | .26 | .47 | 1/4-20 UNC  | SP-1D-U-W2                           |
| 2D              | 2   | 55                 | 30   | 5   | 6   | 14  | M8          | SP-2D-M-W2                           |
|                 |     | 2.17               | 1.18 | .20 | .24 | .55 | 5/16-18 UNC | SP-2D-U-W2                           |
| 3D              | 3   | 70                 | 30   | 5   | 6   | 14  | M8          | SP-3D-M-W2                           |
|                 |     | 2.76               | 1.18 | .20 | .24 | .55 | 5/16-18 UNC | SP-3D-U-W2                           |
| 4D              | 4   | 85                 | 30   | 5   | 6   | 14  | M8          | SP-4D-M-W2                           |
|                 |     | 3.35               | 1.18 | .20 | .24 | .55 | 5/16-18 UNC | SP-4D-U-W2                           |
| 5D              | 5   | 110                | 30   | 5   | 6   | 14  | M8          | SP-5D-M-W2                           |
|                 |     | 4.33               | 1.18 | .20 | .24 | .55 | 5/16-18 UNC | SP-5D-U-W2                           |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

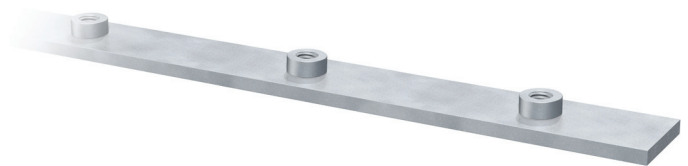
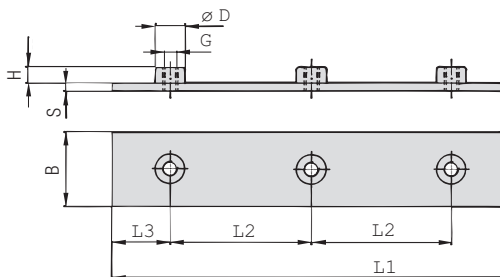
### Ordering Codes

#### Weld Plate

**\*SP-\*1D-\*M-\*W2**

|                     |                                     |    |
|---------------------|-------------------------------------|----|
| * Single Weld Plate |                                     | SP |
| * STAUFF Group      |                                     | 1D |
| * Thread code       | Metric ISO thread                   | M  |
|                     | Unified coarse (UNC) thread         | U  |
| * Material code     | Carbon Steel, phosphated            | W2 |
|                     | Carbon Steel, zinc/nickel-plated    | W3 |
|                     | Stainless Steel V2A                 | W4 |
|                     | 1.4301 / 1.4305 (AISI 304 / 303)    | W4 |
|                     | Stainless Steel V4A                 | W5 |
|                     | 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W5 |

## Group Weld Plate for 5 Clamp Bodies Type RAP



| Group<br>STAUFF | DIN | Dimensions (mm/in) |      |      |      |     |          |     |             | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|------|------|------|-----|----------|-----|-------------|--------------------------------------|
| L1              | L2  | L3                 | B    | S    | H    | ØD  | Thread G |     |             |                                      |
| 1D              | 1   | 196                | 40   | 18   | 30   | 3   | 6,5      | 12  | M6          | RAP-1D-40-5-M-W1                     |
|                 |     | 7.72               | 1.57 | .71  | 1.18 | .12 | .26      | .47 | 1/4-20 UNC  | RAP-1D-40-5-U-W1                     |
| 2D              | 2   | 288                | 58   | 28   | 30   | 5   | 6        | 14  | M8          | RAP-2D-58-5-M-W1                     |
|                 |     | 11.34              | 2.28 | 1.10 | 1.18 | .20 | .24      | .55 | 5/16-18 UNC | RAP-2D-58-5-U-W1                     |
| 3D              | 3   | 358                | 72   | 35   | 30   | 5   | 6        | 14  | M8          | RAP-3D-72-5-M-W1                     |
|                 |     | 14.09              | 2.83 | 1.37 | 1.18 | .20 | .24      | .55 | 5/16-18 UNC | RAP-3D-72-5-U-W1                     |
| 4D              | 4   | 444                | 90   | 42   | 30   | 5   | 6        | 14  | M8          | RAP-4D-90-5-M-W1                     |
|                 |     | 17.48              | 3.54 | 1.65 | 1.18 | .20 | .24      | .55 | 5/16-18 UNC | RAP-4D-90-5-U-W1                     |
| 5D              | 5   | 558                | 112  | 55   | 30   | 5   | 6        | 14  | M8          | RAP-5D-112-5-M-W1                    |
|                 |     | 21.97              | 4.41 | 2.16 | 1.18 | .20 | .24      | .55 | 5/16-18 UNC | RAP-5D-112-5-U-W1                    |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Weld Plate

**\*RAP-\*1D-\*40-\*5-\*M-\*W1**

|                               |                                     |     |
|-------------------------------|-------------------------------------|-----|
| * Group Weld Plate            |                                     | RAP |
| * STAUFF Group                |                                     | 1D  |
| * Pipe Center Spacing L2 (mm) |                                     | 40  |
| * Number of Clamps            |                                     | 5   |
| * Thread code                 | Metric ISO thread                   | M   |
|                               | Unified coarse (UNC) thread         | U   |
| * Material code               | Carbon Steel, uncoated              | W1  |
|                               | Carbon Steel, phosphated            | W2  |
|                               | Carbon Steel, zinc/nickel-plated    | W3  |
|                               | Stainless Steel V2A                 | W4  |
|                               | 1.4301 / 1.4305 (AISI 304 / 303)    | W4  |
|                               | Stainless Steel V4A                 | W5  |
|                               | 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W5  |

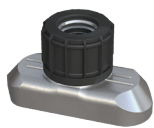




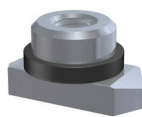
## Hexagon Rail Nut

(for Use with Mounting Rail TS)

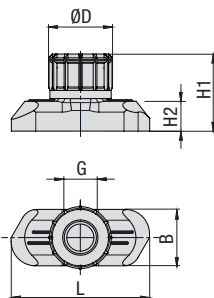
### Type SM



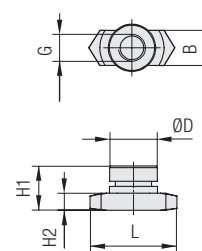
STAUFF Group 1D



STAUFF Group 2D to 5D



STAUFF Group 1D



STAUFF Group 2D to 5D

### Ordering Codes

#### Hexagon Rail Nut \*SM-\*1-8/1D-\*M-\*W3

|                    |                                                                                                                                                           |                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| * Hexagon Rail Nut |                                                                                                                                                           | <b>SM</b>                           |
| * STAUFF Group     | 1D (DIN Group 1)<br>2D to 5D (DIN Group 2 to 5)                                                                                                           | <b>1-8/1D</b><br><b>2-5D</b>        |
| * Thread code      | Metric ISO thread<br>Unified coarse (UNC) thread                                                                                                          | <b>M</b><br><b>U</b>                |
| * Material code    | Carbon Steel, zinc/nickel-plated<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) | <b>W3</b><br><b>W4</b><br><b>W5</b> |

| Group<br>STAUFF | DIN | Dimensions (mm/in) |      |      |      |     |     | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------|------|------|------|-----|-----|--------------------------------------|
|                 |     | Thread G           | L    | B    | H1   | H2  | ØD  |                                      |
| 1D              | 1   | M6                 | 25,5 | 10,4 | 14,2 | 5,5 | 12  | SM-1-8/1D-M-W3                       |
|                 |     | 1/4-20 UNC         | 1.00 | .41  | .56  | .22 | .47 | SM-1-8/1D-U-W3                       |
| 2D              | 2   |                    |      |      |      |     |     |                                      |
| 3D              | 3   |                    |      |      |      |     |     |                                      |
| 4D              | 4   | M8                 | 25,5 | 10,4 | 13   | 5   | 14  | SM-2-5D-M-W3                         |
|                 |     | 5/16-18 UNC        | 1.00 | .41  | .51  | .20 | .55 | SM-2-5D-U-W3                         |
| 5D              | 5   |                    |      |      |      |     |     |                                      |

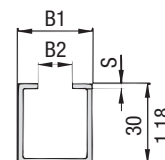
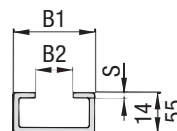
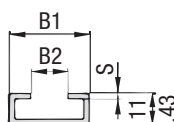
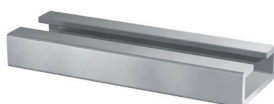
The Hexagon Rail Nut, type SM-1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Mounting Rail

(for Use with Hexagon Rail Nut SM)

### Type TS



Mounting Rail TS-11

Mounting Rail TS-14

Mounting Rail TS-30

### Ordering Codes

#### Mounting Rail \*TS-\*11-\*1M-\*W1

|                  |                                                                                                                                                                                     |                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| * Mounting Rail  |                                                                                                                                                                                     | <b>TS</b>                                         |
| * Height of rail | 11 mm / .43 in<br>14 mm / .55 in<br>30 mm / 1.18 in                                                                                                                                 | <b>11</b><br><b>14</b><br><b>30</b>               |
| * Length of rail | 1 m / 3.28 ft<br>2 m / 6.56 ft                                                                                                                                                      | <b>1M</b><br><b>2M</b>                            |
|                  | Alternative lengths available upon request. Contact STAUFF for further information.                                                                                                 |                                                   |
| * Material code  | Carbon Steel, uncoated<br>Carbon Steel, hot-dip galvanised<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) | <b>W1</b><br><b>W98</b><br><b>W4</b><br><b>W5</b> |

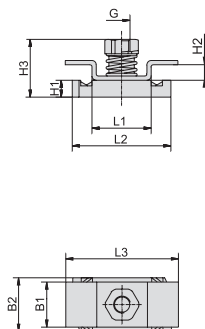
| Group<br>STAUFF | DIN | Dimensions (mm/in) |           |          | Ordering Codes (Standard Options)            |                                              |
|-----------------|-----|--------------------|-----------|----------|----------------------------------------------|----------------------------------------------|
|                 |     | B1                 | B2        | S        | Length of Rail: 1 m / 3.28 ft                | Length of Rail: 2 m / 6.56 ft                |
| 1D              | 1   |                    |           |          | Height 11 mm / .43 in<br><b>TS-11-1M-W1</b>  | Height 11 mm / .43 in<br><b>TS-11-2M-W1</b>  |
| 2D              | 2   |                    |           |          |                                              |                                              |
| 3D              | 3   | 28<br>1.10         | 11<br>.43 | 2<br>.08 | Height 14 mm / .55 in<br><b>TS-14-1M-W1</b>  | Height 14 mm / .55 in<br><b>TS-14-2M-W1</b>  |
| 4D              | 4   |                    |           |          |                                              |                                              |
| 5D              | 5   |                    |           |          | Height 30 mm / 1.18 in<br><b>TS-30-1M-W1</b> | Height 30 mm / 1.18 in<br><b>TS-30-2M-W1</b> |

Mounting Rails, type TS-11/14/30 are suitable for all Twin Series and Standard Series group sizes.

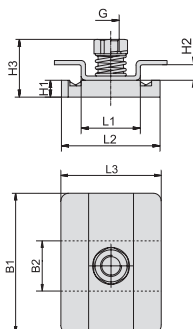
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).



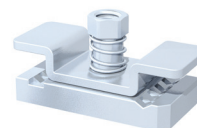


STAUFF Group 1D



STAUFF Group 2-3D / 4-5D

## Channel Rail Adaptor (for Use with Various Channel Rails) Type CRA



| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G | L1  | L2   | L3   | B1   | B2  | H1  | H2  | H3   | Ordering Codes<br>(Standard Options) |
|-----------------|-----|--------------------------------|-----|------|------|------|-----|-----|-----|------|--------------------------------------|
| 1D              | 1   | M6                             | 21  | 35   | 40   | 16   | 19  | 6   | 5,5 | 20,5 | CRA-1-8/1D-M-W3                      |
|                 |     | 1/4-20 UNC                     | .83 | 1.38 | 1.57 | .63  | .75 | .24 | .22 | .81  | CRA-1-8/1D-U-W3                      |
| 2D              | 2   | M8                             | 21  | 35   | 38   | 53   | 19  | 9   | 5,5 | 23,5 | CRA-2-3D-M-W3                        |
|                 |     | 5/16-18 UNC                    | .83 | 1.38 | 1.50 | 2.09 | .75 | .35 | .22 | .93  | CRA-2-3D-U-W3                        |
| 3D              | 3   |                                |     |      |      |      |     |     |     |      |                                      |
| 4D              | 4   | M8                             | 21  | 35   | 38   | 80   | 19  | 9   | 5,5 | 23,5 | CRA-4-5D-M-W3                        |
|                 |     | 5/16-18 UNC                    | .83 | 1.38 | 1.50 | 3.15 | .75 | .3  | .22 | .93  | CRA-4-5D-U-W3                        |
| 5D              | 5   |                                |     |      |      |      |     |     |     |      |                                      |

## Ordering Codes

### Adaptor \*CRA-\*1-8/1D-\*M-\*W3

|                        |                                     |
|------------------------|-------------------------------------|
| * Channel Rail Adaptor | CRA                                 |
| * STAUFF Group         | 1D (DIN Group 1) 1-8/1D             |
|                        | 2D to 3D (DIN Group 2 to 3) 2-3D    |
|                        | 4D to 5D (DIN Group 4 to 5) 4-5D    |
| * Thread code          | Metric ISO thread M                 |
|                        | Unified coarse (UNC) thread U       |
| * Material code        | Carbon Steel, zinc/nickel-plated W3 |
|                        | Stainless Steel V4A W5              |
|                        | 1.4401 / 1.4571 (AISI 316 / 316 Ti) |

The Channel Rail Adaptor, type CRA 1-8/1D is also suitable for Standard Series, STAUFF Group 1 to 8.

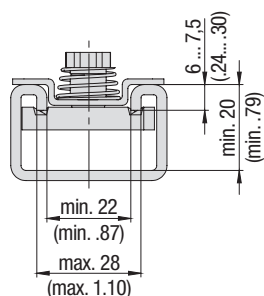
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Compatibility with Channel Rails

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various channel rails, including the following types:

| HALFEN             | HILTI                      | UNISTRUT®                                  | STAUFF (Cushion Clamp Series)           |
|--------------------|----------------------------|--------------------------------------------|-----------------------------------------|
| HM 41/41           | MQ-21, MQ-41, MQ-52, MQ-72 | P1000, P1000T, P1000V, P1000VT, P1001      | SCS-048-1-PL, SCS-048-1-GR              |
| HZA 41/22          | MQ-21U, MQ-41U, MQ-72U     | P2000, P2000T                              | SCS-120-1-PL, SCS-120-1-GR              |
| HZM 41/41          | MQ-21D, MQ-41D, MQ-52-72D  | P3003, P3003T, P3300V, P3300VT, P3301      | See page 149 for technical information. |
| HZM 41/22          |                            | P4000, P4000T                              |                                         |
| HL 41/41, HL 41/B2 |                            | P5000, P5000T, P5001, P5500, P5500T, P5501 |                                         |

Contact STAUFF to check compatibility with additional types of channel rails.

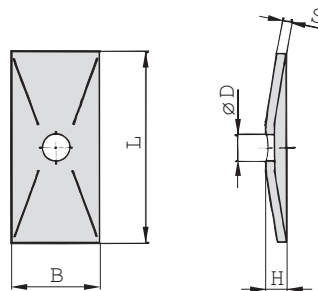
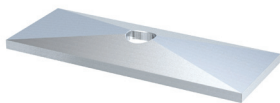


Basic dimensional requirements for channel rails to be used with  
STAUFF Channel Rail Adaptors, type CRA

Dimensional drawings: All dimensions in mm (in).



## Cover Plate Type GD



### Ordering Codes

#### Cover Plate

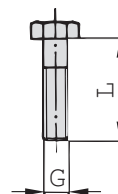
**\*GD-\*1D-\*W3**

|                 |                                            |
|-----------------|--------------------------------------------|
| * Cover Plate   | <b>GD</b>                                  |
| * STAUFF Group  | <b>1D</b>                                  |
| * Material code | Carbon Steel, zinc/nickel-plated <b>W3</b> |
|                 | Stainless Steel V2A <b>W4</b>              |
|                 | 1.4301 / 1.4305 (AISI 304 / 303)           |
|                 | Stainless Steel V4A <b>W5</b>              |
|                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti)        |

| Group<br>STAUFF | DIN | Dimensions (mm /in) |      |     |     |     | Ordering Codes<br>(Standard Options) |
|-----------------|-----|---------------------|------|-----|-----|-----|--------------------------------------|
|                 |     | L                   | B    | H   | S   | ØD  |                                      |
| 1D              | 1   | 34                  | 30   | 7   | 3   | 7   | GD-1D-W3                             |
|                 |     | 1.34                | 1.18 | .28 | .12 | .28 |                                      |
| 2D              | 2   | 52                  | 30   | 7   | 3   | 9   | GD-2D-W3                             |
|                 |     | 2.05                | 1.18 | .28 | .12 | .35 |                                      |
| 3D              | 3   | 65                  | 30   | 7   | 3   | 9   | GD-3D-W3                             |
|                 |     | 2.56                | 1.18 | .28 | .12 | .35 |                                      |
| 4D              | 4   | 79                  | 30   | 7   | 3   | 9   | GD-4D-W3                             |
|                 |     | 3.11                | 1.18 | .28 | .12 | .35 |                                      |
| 5D              | 5   | 102                 | 30   | 7   | 3   | 9   | GD-5D-W3                             |
|                 |     | 4.02                | 1.18 | .28 | .12 | .35 |                                      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Hexagon Head Bolt Type AS



**Hexagon Head Bolt AS**

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Cover Plate GD

### Ordering Codes

**Hexagon Head Bolt \*AS-\*M8x35-\*W3**

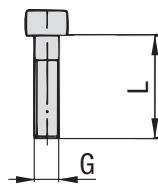
|                                                |                                                                              |       |
|------------------------------------------------|------------------------------------------------------------------------------|-------|
| * Type of bolt                                 | Hexagon Head Bolt<br>(according to DIN 931 / 933<br>or ANSI / ASME B18.2.1.) | AS    |
| * Thread type and size acc. to dimension table |                                                                              | M8x35 |
| * Material code                                | Carbon Steel, zinc/nickel-plated                                             | W3    |
|                                                | Stainless Steel V2A                                                          | W4    |
|                                                | 1.4301 / 1.4305 (AISI 304 / 303)                                             |       |
|                                                | Stainless Steel V4A                                                          | W5    |
|                                                | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                                          |       |

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes<br>(Standard Options) |
|-----------------|-----|------------------------------------|--------------------------------------|
| 1D              | 1   | M6 x 35                            | AS-M6x35-W3                          |
|                 |     | 1/4-20 UNC x 1-3/8                 | AS-1/4-20UNCx1-3/8-W3                |
| 2D              | 2   | M8 x 35                            | AS-M8x35-W3                          |
|                 |     | 5/16-18 UNC x 1-3/8                | AS-5/16-18UNCx1-3/8-W3               |
| 3D              | 3   | M8 x 45                            | AS-M8x45-W3                          |
|                 |     | 5/16-18 UNC x 1-3/4                | AS-5/16-18UNCx1-3/4-W3               |
| 4D              | 4   | M8 x 50                            | AS-M8x50-W3                          |
|                 |     | 5/16-18 UNC x 2                    | AS-5/16-18UNCx2-W3                   |
| 5D              | 5   | M8 x 60                            | AS-M8x60-W3                          |
|                 |     | 5/16-18 UNC x 2-1/2                | AS-5/16-18UNCx2-1/2-W3               |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Socket Cap Screw Type IS



**Socket Cap Screw IS**  
(according to ISO 4762 or ANSI / ASME B18.3)  
Dimensions applicable only when used with Cover Plate GD



| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes<br>(Standard Options) |
|-----------------|-----|------------------------------------|--------------------------------------|
| 1D              | 1   | M6 x 35                            | IS-M6x35-W3                          |
|                 |     | 1/4-20 UNC x 1-3/8                 | IS-1/4-20UNCx1-3/8-W3                |
| 2D              | 2   | M8 x 35                            | IS-M8x35-W3                          |
|                 |     | 5/16-18 UNC x 1-3/8                | IS-5/16-18UNCx1-3/8-W3               |
| 3D              | 3   | M8 x 45                            | IS-M8x45-W3                          |
|                 |     | 5/16-18 UNC x 1-3/4                | IS-5/16-18UNCx1-3/4-W3               |
| 4D              | 4   | M8 x 50                            | IS-M8x50-W3                          |
|                 |     | 5/16-18 UNC x 2                    | IS-5/16-18UNCx2-W3                   |
| 5D              | 5   | M8 x 60                            | IS-M8x60-W3                          |
|                 |     | 5/16-18 UNC x 2-1/2                | IS-5/16-18UNCx2-1/2-W3               |

### Ordering Codes

#### Socket Cap Screw **\*IS-\*M8x35-\*W3**

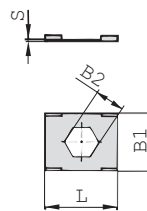
|                                                |                                                                                                                                                           |                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| * Type of bolt                                 | Socket Cap Screw<br>(according to ISO 4762<br>or ANSI / ASME B18.3)                                                                                       | <b>IS</b>                           |
| * Thread type and size acc. to dimension table | <b>M8x35</b>                                                                                                                                              |                                     |
| * Material code                                | Carbon Steel, zinc/nickel-plated<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) | <b>W3</b><br><b>W4</b><br><b>W5</b> |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.  
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Safety Locking Plate

### Type SI (for Use with Stacking Bolt AF)



**Safety Locking Plate SI**  
(Prevents Stacking Bolt from Loosening)

#### Ordering Codes

##### Safety Locking Plate **\*SI-\*1D-\*W3**

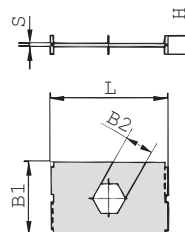
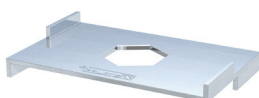
|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Safety Locking Plate | <b>SI</b>                                                                                                                                                                               |
| * STAUFF Group         | 1D (DIN Group 1) <b>1D</b><br>2D to 5D (DIN Group 2 to 5) <b>2-5D</b>                                                                                                                   |
| * Material code        | Carbon Steel, zinc/nickel-plated <b>W3</b><br>Stainless Steel V2A <b>W4</b><br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A <b>W5</b><br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |

| Group  | DIN | Dimensions (mm/in) |     |      |     | Ordering Codes<br>(Standard Options) |
|--------|-----|--------------------|-----|------|-----|--------------------------------------|
| STAUFF |     | L                  | B1  | B2   | S   |                                      |
| 1D     | 1   | 27                 | 22  | 11,2 | 0,5 | SI-1D-W3                             |
|        |     | 1.06               | .86 | .44  | .02 |                                      |
| 2D     | 2   | 27                 | 22  | 12,2 | 0,5 | SI-2-5D-W3                           |
| 3D     | 3   |                    |     |      |     |                                      |
| 4D     | 4   |                    |     |      |     |                                      |
| 5D     | 5   |                    |     |      |     |                                      |
|        |     | 1.06               | .86 | .48  | .02 |                                      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Safety Locking Plate

### Type SIV (for Use with Stacking Bolt AF)



**Safety Locking Plate SIV**  
(Prevents Stacking Bolt from Loosening and Upper Clamp from Turning)

#### Ordering Codes

##### Safety Locking Plate **\*SIV-\*1D-\*W3**

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| * Safety Locking Plate | <b>SIV</b>                                                                                                         |
| * STAUFF Group         | 1D (DIN Group 1) <b>1D</b><br>2D to 3D (DIN Group 2 to 3) <b>2-3D</b>                                              |
| * Material code        | Carbon Steel, zinc/nickel-plated <b>W3</b><br>Stainless Steel V4A <b>W5</b><br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |

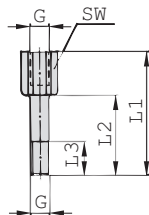
| Group  | DIN | Dimensions (mm/in) |      |      |     |     | Ordering Codes<br>(Standard Options) |
|--------|-----|--------------------|------|------|-----|-----|--------------------------------------|
| STAUFF |     | L                  | B1   | B2   | S   | H   |                                      |
| 1D     | 1   | 27                 | 28   | 11,1 | 1   | 7   | SIV-1D-W3                            |
|        |     | 1.06               | 1.10 | .44  | .04 | .27 |                                      |
| 2D     | 2   | 45                 | 28   | 12,1 | 1   | 7   | SIV-2-3D-W3                          |
| 3D     | 3   |                    |      |      |     |     |                                      |
|        |     | 1.77               | 1.10 | .48  | .04 | .27 |                                      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Stacking Bolt

(for Use with Safety Locking Plates SI / SIV) Type AF



C

| Group  | Dimensions (mm/in) |             |      |      |         |     | Ordering Codes     |
|--------|--------------------|-------------|------|------|---------|-----|--------------------|
| STAUFF | DIN                | Thread G    | L1   | L2   | L3 min. | Hex | (Standard Options) |
| 1D     | 1                  | M6          | 34   | 20   | 12      | 11  | AF-1/1A/1D-M-W3    |
|        |                    | 1/4-20 UNC  | 1.33 | .78  | .47     | .43 | AF-1/1A/1D-U-W3    |
| 2D     | 2                  | M8          | 33   | 20   | 12      | 12  | AF-2D-M-W3         |
|        |                    | 5/16-18 UNC | 1.30 | .78  | .47     | .47 | AF-2D-U-W3         |
| 3D     | 3                  | M8          | 44   | 29   | 12      | 12  | AF-3D-M-W3         |
|        |                    | 5/16-18 UNC | 1.73 | 1.14 | .47     | .47 | AF-3D-U-W3         |
| 4D     | 4                  | M8          | 49   | 34   | 12      | 12  | AF-4D-M-W3         |
|        |                    | 5/16-18 UNC | 1.92 | 1.33 | .47     | .47 | AF-4D-U-W3         |
| 5D     | 5                  | M8          | 61   | 46   | 12      | 12  | AF-5D-M-W3         |
|        |                    | 5/16-18 UNC | 2.40 | 1.81 | .47     | .47 | AF-5D-U-W3         |

### Ordering Codes

#### Stacking Bolt \*AF-\*1/1A/1D-\*M-\*W3

|                 |                                     |    |
|-----------------|-------------------------------------|----|
| * Stacking Bolt |                                     | AF |
| * STAUFF Group  |                                     | 1D |
| * Thread code   | Metric ISO thread                   | M  |
|                 | Unified coarse (UNC) thread         | U  |
| * Material code | Carbon Steel, zinc/nickel-plated    | W3 |
|                 | Stainless Steel V2A                 |    |
|                 | 1.4301 / 1.4305 (AISI 304 / 303)    | W4 |
|                 | Stainless Steel V4A                 |    |
|                 | 1.4401 / 1.4571 (AISI 316 / 316 Ti) | W5 |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.







Please see page 63 with detailed order examples for some of the most popular Twin Series clamp assemblies.

## ① Type of Installation

Please select the type of installation (e.g. weld plates, rail nuts, etc.) and add the corresponding **Code** to position ① of the order code for your clamp assembly.



**Without Installation Equipment**  
Code: **none**

### Installation on Weld Plate



**Single Weld Plate**  
Code: **SP**



**Group Weld Plate**  
Code: **RAP**

### Installation on Mounting / Channel Rail



**Mounting Rail Nut**  
Code: **SM**



**Channel Rail Adaptor**  
Code: **CRA**

## ② Group Size & Diameters

Please select the required group size and diameter and add the corresponding **Code** to position ② of the order code for your clamp assembly.

| Group        | Outside Diameter | Availability of Clamp Body Materials & Designs |        |            |
|--------------|------------------|------------------------------------------------|--------|------------|
| STAUFF (DIN) | P / T / H (mm)   | Profiled Design                                | Type H | Code       |
| 1D (1)       | 6                | ●                                              | ●      | 106/06     |
|              | 6,4              | ●                                              | ●      | 106.4/06.4 |
|              | 8                | ●                                              | ●      | 108/08     |
|              | 9,5              | ●                                              | ●      | 109.5/09.5 |
|              | 10               | ●                                              | ●      | 110/10     |
| 2D (2)       | 12               | ●                                              | ●      | 112/12     |
|              | 12,7             | ●                                              | ●      | 212.7/12.7 |
|              | 13,5             | ●                                              | ●      | 213.5/13.5 |
|              | 14               | ●                                              | ●      | 214/14     |
|              | 15               | ●                                              | ●      | 215/15     |
|              | 16               | ●                                              | ●      | 216/16     |
| 3D (3)       | 17,2             | ●                                              | ●      | 217.2/17.2 |
|              | 18               | ●                                              | ●      | 218/18     |
|              | 19               | ●                                              | ●      | 319/19     |
|              | 20               | ●                                              | ●      | 320/20     |
|              | 21,3             | ●                                              | ●      | 321.3/21.3 |
|              | 22               | ●                                              | ●      | 322/22     |
| 4D (4)       | 25               | ●                                              | ●      | 325/25     |
|              | 25,4             | ●                                              | ●      | 325.4/25.4 |
|              | 26,9             | ●                                              | ●      | 426.9/26.9 |
| 5D (5)       | 28               | ●                                              | ●      | 428/28     |
|              | 30               | ●                                              | ●      | 430/30     |
|              | 32               | ●                                              | ●      | 532/32     |
|              | 33,7             | ●                                              | ●      | 533.7/33.7 |
|              | 35               | ●                                              | ●      | 535/35     |
|              | 38               | ●                                              | ●      | 538/38     |
|              | 40               | ●                                              | ●      | 540/40     |
|              | 42               | ●                                              | ●      | 542/42     |

● Standard Option

## ③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

### Profiled Design



**Polypropylene**  
Code: **PP**



**Polypropylene (Colour: Black)**  
Code: **PP-BK**



**Polyamide**  
Code: **PA**

### Type H (Smooth)



**Polypropylene**  
Code: **PP-H**



**Polypropylene (Colour: Black)**  
Code: **PP-H-BK**



**Polyamide**  
Code: **PA-H**

See pages 154 / 155 for material properties and technical information.

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards.

## ④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. Bolts, Cover Plates, etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

### Installation with Cover Plate and Bolt

**Cover Plate GD with Hexagon Head Bolt AS**  
Code: **GD-AS**

**Cover Plate GD with Socket Cap Screw IS**  
Code: **GD-IS**

### Installation with Locking Plate and Bolt

**Safety Locking Plate SI with Stacking Bolt AF**  
Code: **SI-AF**

**Safety Locking Plate SIV with Stacking Bolt AF**  
Code: **SIV-AF** (for STAUFF Group 1D to 3D only)

## ⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

**Metric ISO thread**  
Code: **M**

**Unified coarse (UNC) thread**  
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

## ⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## ⑦ Assembling & Kitting

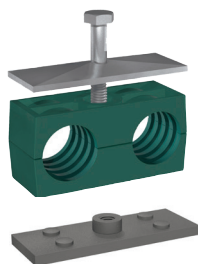
If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.

**Components supplied separately**  
Code: **none** (standard option)

**Components assembled**  
Code: **A** (special option)

**Components packed in kits**  
Code: **K** (special option)



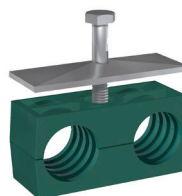


- 1x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 1D (DIN 1)  
both O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Weld Plate**  
Surface: W2  
Thread: Metric

### Order Code

**SP-106/06-PP-GD-AS-M-W10**

W10 is the standard option for this type of installation.



- 1x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 1D (DIN 1)  
both O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**106/06-PP-GD-AS-M-W3**

W3 is the standard option for this type of installation.

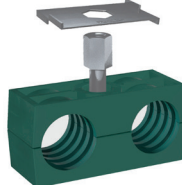


- 1x **Stacking Bolt**  
Surface: W3  
Thread: Metric
- 1x **Safety Locking Plate (Type SI)**  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 1D (DIN 1)  
both O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**106/06-PP-SI-AF-M-W3**

W3 is the standard option for this type of installation.



- 1x **Stacking Bolt**  
Surface: W3  
Thread: Metric
- 1x **Safety Locking Plate (Type SIV)**  
Surface: W3  
Thread: Metric
- 1x **Clamp Body** (two halves)  
STAUFF Group 1D (DIN 1)  
both O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance

### Order Code

**106/06-PP-SIV-AF-M-W3**

W3 is the standard option for this type of installation.  
This type of installation is available up to STAUFF Group 3D only.



- 1x **Hexagon Head Bolt**  
Surface: W3  
Thread: Metric
- 1x **Cover Plate**  
Surface: W3
- 1x **Clamp Body** (two halves)  
STAUFF Group 1D (DIN 1)  
both O.D. 6 mm / .24 in  
Material: Polypropylene  
Profiled inside surface  
with tension clearance
- 1x **Hexagon Rail Nut**  
Surface: W3  
Thread: Metric

### Order Code (Mounting Rail TS not included.)

**SM-106/06-PP-GD-AS-M-W3**

W3 is the standard option for this type of installation.

### Thread Codes

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Metric ISO thread  
Unified coarse (UNC) thread

M  
U












### Material Codes

The below listed material codes describe the materials and surface finishings of metal parts that are most relevant for Twin Series clamp assemblies. Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

|                                                                              |            |
|------------------------------------------------------------------------------|------------|
| Metal parts made of Carbon Steel, zinc/nickel-plated                         | <b>W3</b>  |
| Metal parts made of Stainless Steel V2A: 1.4301 / 1.4305 (AISI 304 / 303)    | <b>W4</b>  |
| Metal parts made of Stainless Steel V4A: 1.4401 / 1.4571 (AISI 316 / 316 Ti) | <b>W5</b>  |
| Weld Plate made of Carbon Steel, phosphated                                  | <b>W10</b> |
| Other metal parts made of Carbon Steel, zinc/nickel-plated                   |            |



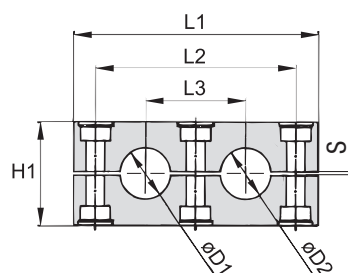
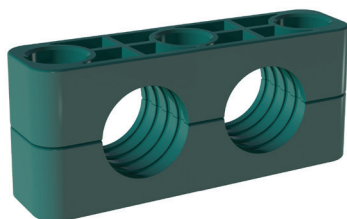


|                                                                                     |                                                                     |    |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|----|
|    | <b>Clamp Body</b><br>Profiled Inside Surface with Tension Clearance | 66 |
|    | <b>Clamp Body with Elastomer Inserts</b>                            | 66 |
|    | <b>Weld Plate</b><br>SPAD                                           | 67 |
|    | <b>Cover Plate</b><br>DPAD                                          | 67 |
|    | <b>Hexagon Head Bolt</b><br>AS                                      | 68 |
|    | <b>Mounting Rail Nut</b><br>GMV                                     | 68 |
|    | <b>Mounting Rail</b><br>STSV                                        | 68 |
|    | <b>Channel Rail Adaptor</b><br>CRA                                  | 68 |
|  | <b>Socket Cap Screw</b><br>IS                                       | 68 |
|  | <b>Safety Locking Plate</b><br>SIP                                  | 68 |
|  | <b>Stacking Bolt</b><br>AF                                          | 68 |
|                                                                                     | <b>Clamp Assemblies</b>                                             | 69 |



## Clamp Body ▪ Profiled Design

Profiled Inside Surface with Tension Clearance



D

### Ordering Codes

**Clamp Body** \*4\*012.7/12.7-\*PP

One clamp body is consisting of two clamp halves.

- \* 1<sup>st</sup> part of STAUFF Group **4**
- \* Exact outside diameters Ø D1 / Ø D2 (mm) **012.7/12.7**
- \* Material code (see below) **PP**

### Standard Materials



**Polypropylene**  
Colour: Green  
Material code: **PP**



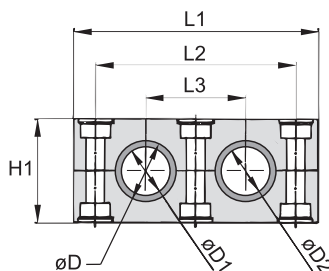
**Polyamide**  
Colour: Black  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

| Group  | Outside Diameter<br>Pipe / Tube<br>Ø D1 / Ø D2 |       | Nominal Bore<br>Pipe | Copper Tube<br>ASTM B88 | Ordering Codes<br>(2 Clamp Halves) | Dimensions (mm/in) |             |            |            |            |            |
|--------|------------------------------------------------|-------|----------------------|-------------------------|------------------------------------|--------------------|-------------|------------|------------|------------|------------|
| STAUFF | (mm)                                           | (in)  | (in)                 | (in)                    | (** = Material)                    | L1                 | L2          | L3         | H1         | S          | Width      |
| 4S-D   | 12,7                                           | 1/2   |                      | 3/8                     | 4012.7/12.7-**-**                  | 115<br>4.53        | 90<br>3.54  | 45<br>1.77 | 48<br>1.89 | 1,2<br>.05 | 30<br>1.18 |
|        | 19                                             | 3/4   |                      |                         | 4019/19-**-**                      |                    |             |            |            |            |            |
|        | 20                                             |       |                      |                         | 4020/20-**-**                      |                    |             |            |            |            |            |
|        | 21,3                                           |       | 1/2                  |                         | 4021.3/21.3-**-**                  |                    |             |            |            |            |            |
|        | 22                                             |       |                      | 3/4                     | 4022/22-**-**                      |                    |             |            |            |            |            |
|        | 25,4                                           | 1     |                      |                         | 4025.4/25.4-**-**                  |                    |             |            |            |            |            |
| 5S-D   | 26,9                                           |       | 3/4                  |                         | 4026.9/26.9-**-**                  | 145<br>5.71        | 120<br>4.72 | 60<br>2.36 | 60<br>2.36 | 2,0<br>.08 | 30<br>1.18 |
|        | 32                                             | 1-1/4 |                      |                         | 5032/32-**-**                      |                    |             |            |            |            |            |
|        | 33,7                                           |       | 1                    |                         | 5033.7/33.7-**-**                  |                    |             |            |            |            |            |
|        | 38                                             | 1-1/2 |                      |                         | 5038/38-**-**                      |                    |             |            |            |            |            |
|        | 42                                             |       | 1-1/4                |                         | 5042/42-**-**                      |                    |             |            |            |            |            |
|        |                                                |       |                      |                         |                                    |                    |             |            |            |            |            |

Additional outside diameters and Clamp Bodies, type H (smooth inside surface without tension clearance) are available upon request. Please contact STAUFF for further information.

## Clamp Body with Elastomer Inserts Type RI



For use with Elastomer Inserts of the Heavy Series, STAUFF Group 4S and 5S (see page 39 for details)

### Ordering Codes

**Clamp Assembly** \*4\*006/06-\*PP-R

One assembly is consisting of one clamp body and two inserts.

- \* 1<sup>st</sup> part of STAUFF Group **4**
- \* Exact outside diameters Ø D1 / Ø D2 (mm) **006/06**
- \* Material code (see below) **PP-R**

### Standard Materials



**Polypropylene**  
Colour: Black  
Material code: **PP-R**



**Polyamide**  
Colour: Black  
Material code: **PA-R**

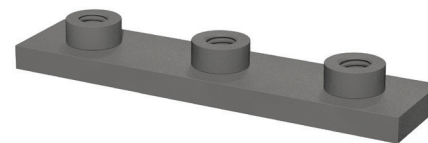
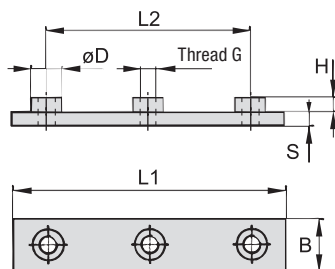


**Elastomer Inserts**  
**Thermoplastic Elastomer** (73 Shore-A)  
Colour: Black

| Group  | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D1 / Ø D2 |       | Ordering Codes<br>(Clamp Assembly) | Dimensions<br>(mm/in) |             |             |            |            |            |  |
|--------|-------------------------------------------------------|-------|------------------------------------|-----------------------|-------------|-------------|------------|------------|------------|--|
| STAUFF | (mm)                                                  | (in)  | (**R = Material)                   | Ø D                   | L1          | L2          | L3         | H1         | Width      |  |
| 4S-D   | 6                                                     |       | 4006/06-**-R                       | 25<br>.98             | 115<br>4.53 | 90<br>3.54  | 45<br>1.77 | 48<br>1.89 | 30<br>1.18 |  |
|        | 8                                                     | 5/16  | 4008/08-**-R                       |                       |             |             |            |            |            |  |
|        | 10                                                    |       | 4010/10-**-R                       |                       |             |             |            |            |            |  |
|        | 12                                                    |       | 4012/12-**-R                       |                       |             |             |            |            |            |  |
|        | 12,7                                                  | 1/2   | 4012.7/12.7-**-R                   |                       |             |             |            |            |            |  |
|        | 14                                                    |       | 4014/14-**-R                       |                       |             |             |            |            |            |  |
|        | 15                                                    |       | 4015/15-**-R                       |                       |             |             |            |            |            |  |
|        | 16                                                    | 5/8   | 4016/16-**-R                       |                       |             |             |            |            |            |  |
|        | 17,2                                                  |       | 4017.2/17.2-**-R                   |                       |             |             |            |            |            |  |
|        | 18                                                    |       | 4018/18-**-R                       |                       |             |             |            |            |            |  |
|        | 19                                                    | 3/4   | 4019/19-**-R                       |                       |             |             |            |            |            |  |
|        | 20                                                    |       | 5020/20-**-R                       |                       |             |             |            |            |            |  |
| 5S-D   | 21,3                                                  |       | 5021.3/21.3-**-R                   | 38<br>1.50            | 145<br>5.71 | 120<br>4.72 | 60<br>2.36 | 60<br>2.36 | 30<br>1.18 |  |
|        | 22                                                    | 7/8   | 5022/22-**-R                       |                       |             |             |            |            |            |  |
|        | 25                                                    |       | 5025/25-**-R                       |                       |             |             |            |            |            |  |
|        | 26,9                                                  |       | 5026.9/26.9-**-R                   |                       |             |             |            |            |            |  |
|        | 28                                                    |       | 5028/28-**-R                       |                       |             |             |            |            |            |  |
|        | 30                                                    |       | 5030/30-**-R                       |                       |             |             |            |            |            |  |
|        | 32                                                    | 1-1/4 | 5032/32-**-R                       |                       |             |             |            |            |            |  |
|        |                                                       |       |                                    |                       |             |             |            |            |            |  |

See pages 154 / 155 for properties and technical information. Additional outside diameters are available upon request. Please contact STAUFF for further information.



**Weld Plate  
Type SPAD**


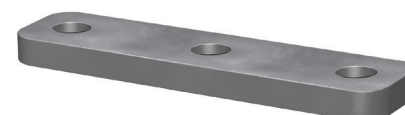
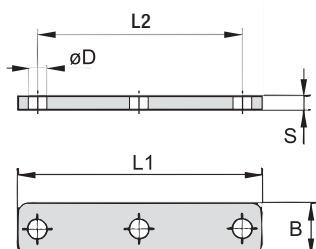
| Group<br>STAUFF | Dimensions (mm/in) |      | B    | S   | H   | Thread G   | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|--------------------|------|------|-----|-----|------------|-----|--------------------------------------|
|                 | L1                 | L2   |      |     |     |            |     |                                      |
| 4S-D            | 130                | 90   | 30   | 8   | 8,5 | M10        | 18  | SPAD-4S-M-W1                         |
|                 | 5.12               | 3.54 | 1.18 | .31 | .33 | 3/8-16 UNC | .71 | SPAD-4S-U-W2*                        |
| 5S-D            | 160                | 120  | 30   | 8   | 8,5 | M10        | 18  | SPAD-5S-M-W1                         |
|                 | 6.30               | 4.72 | 1.18 | .31 | .33 | 3/8-16 UNC | .71 | SPAD-5S-U-W2*                        |

All threaded parts are available with Metric ISO thread or unified Coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

\* Standard finishing option in North America is W2 (Carbon Steel, phosphated).

**Ordering Codes**
**Weld Plate**
**\*SPAD-\*4S-\*M-\*W1**

|                 |                                                                                                                                                                                                                 |                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| * Weld Plate    |                                                                                                                                                                                                                 | SPAD                       |
| * STAUFF Group  | 4S-D<br>5S-D                                                                                                                                                                                                    | 4S<br>5S                   |
| * Thread code   | Metric ISO thread<br>Unified coarse (UNC) thread                                                                                                                                                                | M<br>U                     |
| * Material code | Carbon Steel, uncoated<br>Carbon Steel, phosphated<br>Carbon Steel, zinc/nickel-plated<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) | W1<br>W2<br>W3<br>W4<br>W5 |

**Cover Plate  
Type DPAD**


| Group<br>STAUFF | Dimensions (mm/in) |      | B    | S   | ØD  | Ordering Codes<br>(Standard Options) |
|-----------------|--------------------|------|------|-----|-----|--------------------------------------|
|                 | L1                 | L2   |      |     |     |                                      |
| 4S              | 115                | 90   | 30   | 8   | 11  | DPAD-4S-W1*                          |
|                 | 4.53               | 3.54 | 1.18 | .31 | .43 |                                      |
| 5S              | 145                | 120  | 30   | 8   | 11  | DPAD-5S-W1*                          |
|                 | 5.71               | 4.72 | 1.18 | .31 | .43 |                                      |

All threaded parts are available with Metric ISO thread or unified Coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

\* Standard finishing option in North America is W3 (Carbon Steel, phosphated).

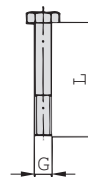
**Ordering Codes**
**Cover Plate**
**\*DPAD-\*4S-\*W1**

|                 |                                                                                                                                                                                                                 |                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| * Cover Plate   |                                                                                                                                                                                                                 | DPAD                       |
| * STAUFF Group  | 4S-D<br>5S-D                                                                                                                                                                                                    | 4S<br>5S                   |
| * Material code | Carbon Steel, uncoated<br>Carbon Steel, phosphated<br>Carbon Steel, zinc/nickel-plated<br>Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) | W1<br>W2<br>W3<br>W4<br>W5 |





## Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with Cover Plate DPAD

### Ordering Codes

#### Hexagon Head Bolt \*AS-\*M10x70-\*W1

|                                                |                                                                              |           |
|------------------------------------------------|------------------------------------------------------------------------------|-----------|
| * Type of bolt                                 | Hexagon Head Bolt<br>(according to DIN 931 / 933<br>or ANSI / ASME B18.2.1.) | <b>AS</b> |
| * Thread type and size acc. to dimension table | <b>M10x70</b>                                                                |           |
| * Material code                                | Carbon Steel, uncoated                                                       | <b>W1</b> |
|                                                | Carbon Steel, zinc/nickel-plated                                             | <b>W3</b> |
|                                                | Stainless Steel V2A<br>1.4301 / 1.4305 (AISI 304 / 303)                      | <b>W4</b> |
|                                                | Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)                   | <b>W5</b> |

| Group<br>STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Codes<br>(Standard Options) |
|-----------------|-----|------------------------------------|--------------------------------------|
| 4S              | 2   | M10 x 60                           | AS-M10x60-W1                         |
|                 |     | 3/8-16 UNC x 2-1/4                 | AS-3/8-16UNCx2-1/4-W3*               |
| 5S              | 3   | M10 x 70                           | AS-M10x70-W1                         |
|                 |     | 3/8-16 UNC x 2-3/4                 | AS-3/8-16UNCx2-3/4-W3*               |

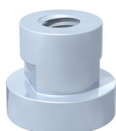
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

If required, use Safety Washers, type SI as locking devices to prevent Hexagon Head Bolts, type AS from loosening. See page 46 for details.

\* Standard finishing option in North America is W3 (Carbon Steel, zinc/nickel-plated).

## Further Metal Hardware

For Use with the Heavy Twin Series



### Mounting Rail Nut Type GMV

Heavy Series, STAUFF Group 4S and 5S  
(See page 42 for details)



### Mounting Rail Type STSV

Heavy Series  
(See page 42 for details)



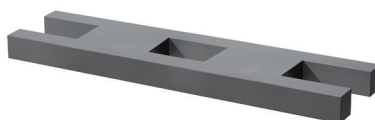
### Channel Rail Adaptor Type CRA

Heavy Series, STAUFF Group 4S and 5S  
(See page 43 for details)



### Socket Cap Screw Type IS

Heavy Series, STAUFF Group 4S and 5S  
(See page 45 for details)



### Safety Locking Plate Type SIPD

Heavy Twin Series, STAUFF Group 4S-D and 5S-D  
(Contact STAUFF for details)



### Stacking Bolt Type AF

Heavy Series, STAUFF Group 4S and 5S  
(See page 47 for details)



SPAD - 4012.7/12.7 - PP - DPAD-AS - M - W1 - K

①      ②      ③      ④      ⑤      ⑥      ⑦

## ① Type of Installation

Please select the type of installation (e.g. Weld Plates, Rail Nuts etc.) and add the corresponding **Code** to position ① of the order code for your clamp assembly.



**Without Installation Equipment**  
Code: **none**

### Installation on Weld Plate



**Single Weld Plate**  
Code: **SPAD**

### Installation on Mounting / Channel Rail



**Mounting Rail Nut**  
Code: **GMV**



**Channel Rail Adaptor**  
Code: **CRA**

## ② Group Size & Diameters

Please select the required group size and diameter and add the corresponding **Code** to position ② of the order code for your clamp assembly.

| Group  | Outside Diameter P / T / H (mm) | Availability of Clamp Body Materials & Designs | Type RI | Code        |
|--------|---------------------------------|------------------------------------------------|---------|-------------|
| STAUFF |                                 | Profiled Design                                |         |             |
| 4S-D   | 6                               | ○                                              | ●       | 4006/06     |
|        | 8                               | ○                                              | ●       | 4008/08     |
|        | 10                              | ○                                              | ●       | 4010/10     |
|        | 12                              | ○                                              | ●       | 4012/12     |
|        | 12.7                            | ●                                              | ●       | 4012.7/12.7 |
|        | 14                              | ○                                              | ●       | 4014/14     |
|        | 15                              | ○                                              | ●       | 4015/15     |
|        | 16                              | ○                                              | ●       | 4016/16     |
|        | 17.2                            | ○                                              | ●       | 4017.2/17.2 |
|        | 18                              | ○                                              | ●       | 4018/18     |
|        | 19                              | ●                                              | ●       | 4019/19     |
|        | 20                              | ●                                              | ○       | 4020/20     |
|        | 21.3                            | ●                                              | ○       | 4021.3/21.3 |
|        | 22                              | ●                                              | ○       | 4022/22     |
|        | 25.4                            | ●                                              | ○       | 4025.4/25.4 |
|        | 26.9                            | ●                                              | ○       | 4026.9/26.9 |
| 5S-D   | 20                              | ○                                              | ●       | 5020/20     |
|        | 21.3                            | ○                                              | ●       | 5021.3/21.3 |
|        | 22                              | ○                                              | ●       | 5022/22     |
|        | 25                              | ○                                              | ●       | 5025/25     |
|        | 26.9                            | ○                                              | ●       | 5026.9/26.9 |
|        | 28                              | ○                                              | ●       | 5028/28     |
|        | 30                              | ○                                              | ●       | 5030/30     |
|        | 32                              | ●                                              | ●       | 5032/32     |
|        | 33.7                            | ●                                              | ○       | 5033.7/33.7 |
|        | 38                              | ●                                              | ○       | 5038/38     |
|        | 42                              | ●                                              | ○       | 5042/42     |

● Standard Option

## ③ Clamp Body Design & Material

Please select the design and material of your clamp body and add the corresponding **Code** to position ③ of the order code for your clamp assembly.

Please check the availability of the selected clamp body design and material according to the matrix table in ②.

### Profiled Design



**Polypropylene**  
Code: **PP**



**Polyamide**  
Code: **PA**

### Type RI (with Elastomer Insert)



**Polypropylene**  
Code: **PP-R**



**Polyamide**  
Code: **PA-R**

Clamp Bodies, Type H (smooth Inside surface without tension clearance) are available upon request. Please contact STAUFF for further information.

## ④ Mounting & Fitting Combination

Please select the mounting and fitting combination (e.g. Bolts, Cover Plates etc.) and add the corresponding **Code** to position ④ of the order code for your clamp assembly.

### Installation with Cover Plate and Bolts

**Cover Plate DPAD with Hexagon Head Bolt AS**  
Code: **DPAD-AS**

### Installation with Locking Plate and Bolts

**Safety Locking Plate SIPD with Stacking Bolt AF**  
Code: **SIPD-AF**

## ⑤ Thread Type

Please select the required thread type and add the corresponding **Code** to position ⑤ of the order code for your clamp assembly.

**Metric ISO thread**  
Code: **M**

**Unified coarse (UNC) thread**  
Code: **U**

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

## ⑥ Material & Surface Finishing

Please select the required material & surface finishing of the metal parts and add the corresponding **Code** to position ⑥ of the order code for your clamp assembly.

Metal parts made of Carbon Steel, uncoated **W1**

Metal parts made of Carbon Steel, phosphated **W2**

Metal parts made of Carbon Steel, zinc/nickel-plated **W3**

Metal parts made of Stainless Steel V2A 1.4301 / 1.4305 (AISI 304 / 303) **W4**

Metal parts made of Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Weld Plate made of Carbon Steel, phosphated; Other metal parts made of Carbon Steel, zinc/nickel-plated **W10**

Weld Plate and Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W12**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W13**

Weld Plate / Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W15**

Mounting Rail Nuts made of Carbon Steel, zinc/nickel-plated; Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W16**

Safety Locking Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, zinc/nickel-plated **W17**

Safety Locking Plate made of Carbon Steel, uncoated; Bolts made of Carbon Steel, phosphated **W18**

Cover Plate made of Carbon Steel, phosphated; Bolts made of Carbon Steel, uncoated **W19**

Individual combinations of alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## ⑦ Assembling & Kitting

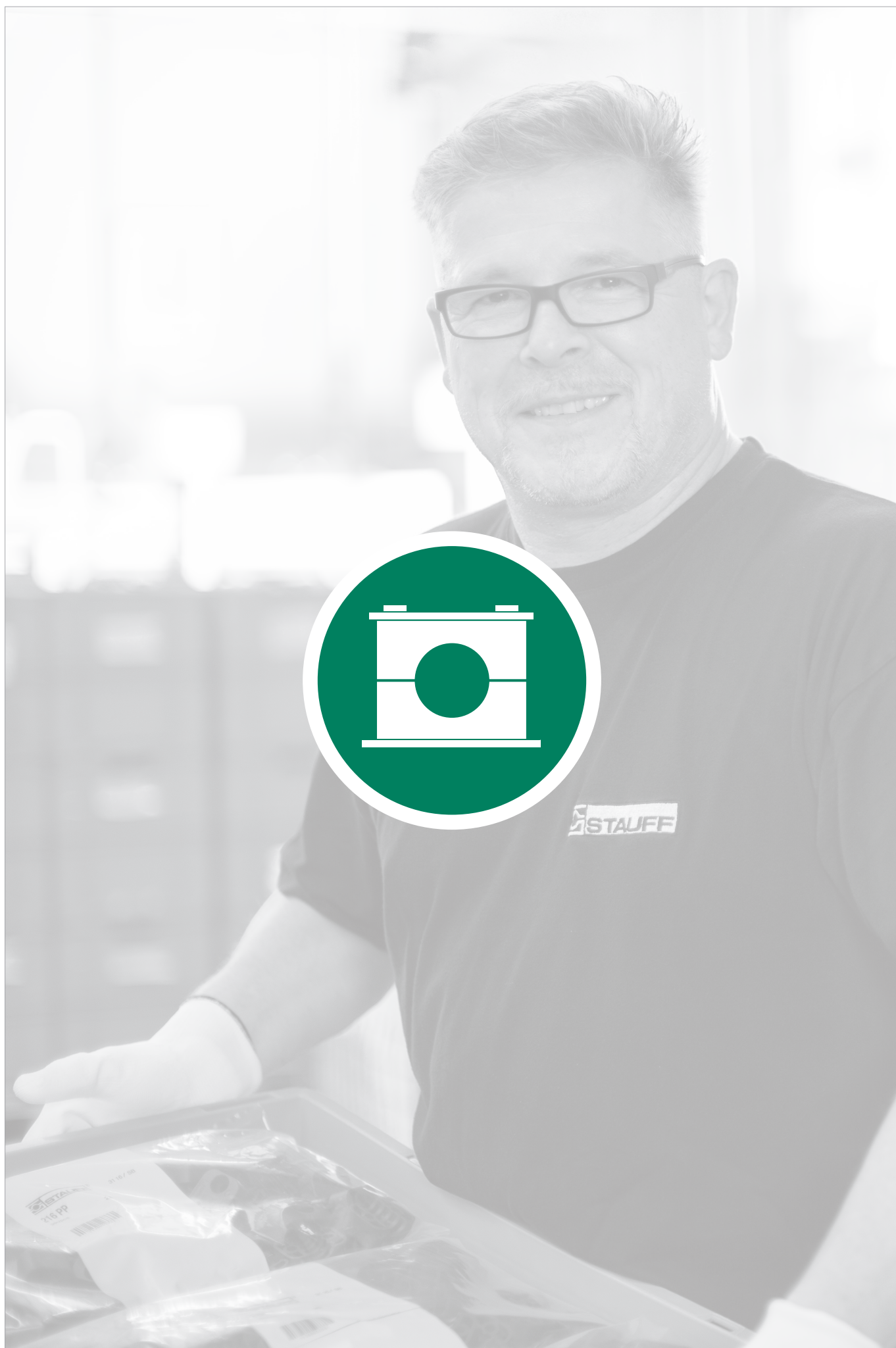
If required, please select an additional assembling and kitting option and add the corresponding **Code** to the last position of the order code for your clamp assembly.

**Components Supplied Separately**  
Code: **none** (Standard Option)

**Components Assembled**  
Code: **A** (Special Option)

**Components Packed in Kits**  
Code: **K** (Special Option)






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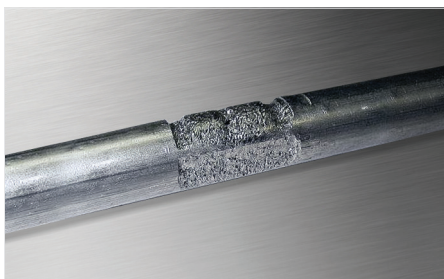
**Twin Series**
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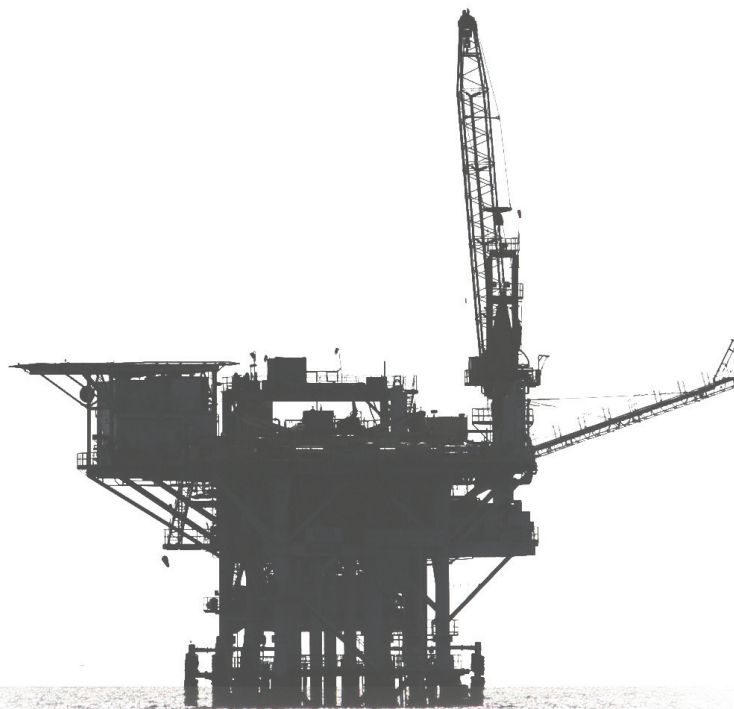

## STAUFF ACT Anti-Corrosion Technology



Crevice corrosion formed under a regular plastic clamp



Crevice corrosion formed under a regular plastic clamp



### Stainless Steel Pipework

Stainless steel pipework on oil and gas platform and processing plants (that are located offshore and up to 50 km inland) is used over a wide range of temperature, flow and pressure conditions, e.g. for process instrumentation and sensing, as well as for chemical inhibition, hydraulic or utility lines.

The typical tubing material selected for these particular applications is AISI 316 stainless steel, although in more recent times other tube materials have been utilized to try and counteract the offshore corrosion issue.

In all major offshore oil and gas regions – including the Gulf of Mexico, the North Sea, the Gulf of Guinea and the China Sea – corrosion of AISI 316 stainless steel pipework can be observed, and has been a researched and well documented problem as well as a costly and time consuming issue with regard to maintenance processes for many years.

### Pitting Corrosion

One of the most prevalent forms of localised corrosion is pitting corrosion: Under certain specific conditions – particularly involving chlorides (such as sodium chloride in seawater) and exacerbated by elevated temperatures – small pits can form in a stainless steel surface.

Dependent upon both the environment and the stainless steel itself, these pits may continue to grow and eventually lead to perforation of tubing walls and leaks, while the majority of the surface may still be totally unaffected.

Pitting corrosion is often quite easy to recognise: small individual pits and – in later stages – sometimes deeper and connected pits can be observed by visual inspection with the unaided eye.

### Crevice Corrosion

Another dominant type is crevice corrosion, which is a lot more difficult to observe: It usually tends to occur in shielded areas such as crevices, formed under gaskets, washers, fastener heads, insulating material, surface deposits, disbanded coatings, threads and lap joints.

Pipe clamps made of plastic in particular have also been prone to inducing crevice corrosion in the past, because the plastic deforms around the tubing and creates even tighter crevices.

Crevice corrosion is always initiated by changes in the local chemistry within the shielded area, usually associated with a stagnant solution on the micro-environmental level:

- Trapped seawater becomes stagnant
- Depletion of inhibitor and oxygen
- A shift to acid conditions
- Build-up of aggressive ion species (such as sodium chloride in seawater)
- Accelerated corrosion process

Crevice corrosion can have serious and adverse consequences eventually leading to perforation of tubing walls and the escape of highly flammable and hazardous fluids and chemicals.

### Material Selection

Hence, the selection of proper materials and the use of robust design and safe construction practices are mandatory, even if crevices are sometimes difficult or even impossible to avoid in tubing installations when using regular types of tubing supports and clamps.

This is where STAUFF ACT Clamps come into play ...

### Corrosion Facts

Corrosion in general is a naturally occurring phenomenon commonly defined as the deterioration of a substance (usually a metal) or its properties because of a reaction with its environment. Like other natural hazards, corrosion can cause not only expensive but also dangerous damage to almost everything from automobiles, home appliances and drinking water systems to pipelines, bridges and public buildings.

Figures provided by the U.S. National Climatic Data Center underline that major weather related disasters the U.S. incurred total losses of averaging USD 17 billion annually (1980 – 2001). According to U.S. corrosion studies, the estimated direct cost of metallic corrosion in general was USD 276 billion on an annual basis in 1998. This represented 3,1% of the U.S. Gross Domestic Product.

Direct corrosion costs associated with the domestic oil and gas production activities in the U.S. were determined to be about USD 1,4 billion annually, with USD 0,6 billion attributed to surface piping and facility costs, USD 0,5 billion to downhole tubing, and USD 0,3 billion to capital expenditures related to corrosion.

The U.S. refineries represent approximately 23% of the world's petroleum production in 1996 supplying more than 18 million barrels of refined petroleum products per day, with a total corrosion related direct cost of USD 3,7 billion. Maintenance expenses make up USD 1,8 billion of this total, vessel expenses are USD 1,4 billion and fouling costs are approximately USD 0,5 billion annually.

*Source of Information:* Report No. FHWA-RD-01-156, September 2001  
**Corrosion Costs and Preventive Strategies in the United States**  
Report by CC Technologies Laboratories, Inc. to Federal Highway Administration Office of Infrastructure Research and Development



## Main Features

**Efficient Prevention of Crevice Corrosion under Pipe Clamps on Stainless Steel Pipework  
Middle- and Long-Term Cost Savings due to Extended Service and Maintenance Intervals**

### Construction based on STAUFF Clamps

- Design based on Original STAUFF Clamps according to DIN 3015, Parts 1 and 3 (Standard Series and Twin Series), the tried and tested industry standard for several decades
- Covering the most commonly used metric and imperial pipe diameters from 6 mm to 42 mm (from 1/4 inch to 1 1/2 inch)
- Alternative configurations and pipe diameters on request
- Installation time reduction (compared to alternative designs)

### Independent Testing and Approval

- Subject to stringent testing at the STAUFF in-house laboratories located in Werdohl (Germany)
- Salt spray tests according to ASTM B117 applied in controlled laboratory environments
- Long-term field tested on a rig in the Dutch sector of the North Sea
- Tests results independently assessed by Centre for Corrosion Technology at Sheffield Hallam University
- Fully detailed, independent test reports available on request

### Innovative Design and Materials

- Material and design in compliance with section 7.3 (Tubing Installation) of the Norwegian offshore standard Norsok Z-010 (Revision 3, published in October 2000), API RP 552 and NACE SP 0108-2008 (section 13)
- ① Clamp body made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94
- ② Integrated ACE anti-corrosion elastomer strips avoid the accumulation of seawater between clamp body and pipe
- ③ Drainage channels aid the dispersal of seawater (self-draining)



- ④ ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling (delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport)
- High UV stability of the clamp body material; resistant against seawater, rain and oil
- Suitable for continuous exposure to temperatures from -25 °C to +80 °C (from -13 °F to +176 °F)
- To be used in sub-sea and top-side environments; alleviating the requirement for two different products



Salt-spray testing of ACT Mounting Hardware (above of the picture) compared to contaminated hardware made of Stainless Steel V4A (below of the picture)

## Design

STAUFF ACT Clamps are an innovatively designed solution for the installation of instrumentation pipework where anti-corrosion properties are of paramount importance (e.g. in the fields of offshore oil and gas exploration and processing).

The design – based on the tried and tested STAUFF Clamps according to DIN 3015 – offers installation time reduction and long term cost savings due to extended service intervals.

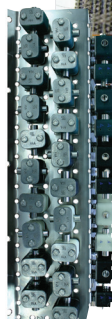
The STAUFF ACT clamp body design is available for the Standard Series (DIN 3015, Part 1) and the Twin Series (DIN 3015, Part 3) to cover the most commonly used metric and imperial pipe diameters from 6 mm to 42 mm (1/4 inch to 1 1/2 inch).

### Development

Throughout their development, STAUFF ACT Clamps have been subject to stringent testing at the STAUFF in-house laboratories located in Werdohl, Germany.

In order to ensure credibility of the product, the development process has also involved independent testing.

In a controlled laboratory environment, continuous hot salt spray tests according to ASTM B117 have been applied for periods of 2000 hours to various clamp configurations holding AISI 316 stainless steel tubing.



In addition to that, independent field test samples – located on an oil rig in the Dutch sector of the North Sea – have also been assessed at the Sheffield Hallam University facilities.

Both independent tests have recorded positive results in favour of the anti-corrosion attributes of the STAUFF ACT Clamp. Fully detailed test reports are available upon request.



To achieve this, the services of the Centre for Corrosion Technology at Sheffield Hallam University's Materials and Engineering Research Institute have been utilized, applying advanced techniques with equipment such as high resolution surface metrology and form measurement systems.

### Conformity

Using flame-retardant PP-V0 plastic material for the clamp body and ACE anti-corrosion elastomer material for the rubber strips, STAUFF ACT Clamps have been constructed in compliance with section 7.3 (Tubing Installation) of the Norwegian offshore standard Norsok Z-010 (Revision 3, published in October 2000). They also comply with Norsok I-001 (Revision 4, published in January 2010), API RP 552 and NACE SP 0108-2008 (section 13).

### The Norsok Organisation



Norsok is a Norwegian industry initiative to add value, reduce cost and lead time and remove unnecessary activities in offshore field developments and operations.

The Norsok standards are developed by the Norwegian petroleum industry and are jointly issued by the Norwegian Oil Industry Association (OLF) and the Federation of Norwegian Engineering Industries (TBL). They are administered by the Norwegian Technology Standards Institution (NTS).

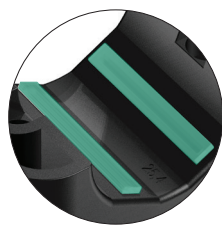
The purpose of the Norsok industry standards is to replace the individual oil company specifications for use in existing and future petroleum industry developments, subject to the individual company's review and application.



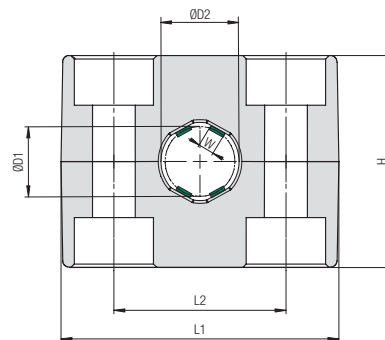


Standard Series according to DIN 3015, Part 1

## ACT Clamp Body



Integrated Rubber Strips  
made of Anti-Corrosion Elastomer (ACE)



### Ordering Codes

**Clamp Body** \*2-\*12.7-\*ACT  
**Clamp Body, STAUFF Group 1A** \*1-\*06.4A-\*ACT

One clamp body consists of two identical clamp halves, each with two integrated rubber strips.

- \* STAUFF Group
- \* Exact outside diameter Ø D1 (mm)
- \* Material code

**2**  
**12.7**  
**ACT**

| Group Size |     | Outside Diameter<br>Ø D1 |       | Ordering Code    | Packaging Unit    | Dimensions (mm/in) |            |            |            |              |            |
|------------|-----|--------------------------|-------|------------------|-------------------|--------------------|------------|------------|------------|--------------|------------|
| STAUFF     | DIN | (mm)                     | (in)  | (2 Clamp Halves) | (in pieces / bag) | ØD2                | W          | L1         | L2         | H            | Width      |
| 1A         | 1   | 3,2                      | 1/8   | 103.2A-ACT       | 25                | 6,2<br>.24         | 1,1<br>.04 | 37<br>1.46 | 20<br>.79  | 26<br>1.06   | 30<br>1.18 |
|            |     | 6                        |       | 106A-ACT         | 25                | 9<br>.35           | 1,4<br>.06 |            |            |              |            |
|            |     | 6,4                      | 1/4   | 106.4A-ACT       | 25                | 9,4<br>.37         | 1,5<br>.06 |            |            |              |            |
|            |     | 8                        |       | 108A-ACT         | 25                | 11,0<br>.43        | 1,8<br>.07 |            |            |              |            |
|            |     | 9,5                      | 3/8   | 109.5A-ACT       | 25                | 12,5<br>.49        | 2,2<br>.09 |            |            |              |            |
|            |     | 10                       |       | 110A-ACT         | 25                | 13<br>.51          | 2,3<br>.09 |            |            |              |            |
|            |     | 12                       |       | 112A-ACT         | 25                | 15<br>.59          | 2,8<br>.11 |            |            |              |            |
| 2          | 2   | 12,7                     | 1/2   | 212.7-ACT        | 25                | 15,7<br>.62        | 3,5<br>.14 | 42<br>1.65 | 26<br>1.02 | 32<br>1.30   | 30<br>1.18 |
|            |     | 14                       |       | 214-ACT          | 25                | 17<br>.67          | 3,5<br>.14 |            |            |              |            |
|            |     | 14,3                     | 9/16  | 214.3-ACT        | 25                | 17,3<br>.68        | 3,5<br>.14 |            |            |              |            |
|            |     | 15                       |       | 215-ACT          | 25                | 18<br>.71          | 3,5<br>.14 |            |            |              |            |
|            |     | 16                       | 5/8   | 216-ACT          | 25                | 19<br>.74          | 3,5<br>.14 |            |            |              |            |
|            |     | 18                       |       | 218-ACT          | 25                | 21<br>.83          | 3,5<br>.14 |            |            |              |            |
| 3          | 3   | 19                       | 3/4   | 319-ACT          | 25                | 22<br>.87          | 3,5<br>.14 | 50<br>1.97 | 33<br>1.30 | 35,5<br>1.42 | 30<br>1.18 |
|            |     | 20                       |       | 320-ACT          | 25                | 23<br>.91          | 3,5<br>.14 |            |            |              |            |
|            |     | 21,3                     |       | 321.3-ACT        | 25                | 24,3<br>.96        | 3,5<br>.14 |            |            |              |            |
|            |     | 25                       |       | 325-ACT          | 25                | 28<br>1.10         | 3,5<br>.14 |            |            |              |            |
|            |     | 25,4                     | 1     | 325.4-ACT        | 25                | 28,4<br>1.12       | 3,5<br>.14 |            |            |              |            |
| 4          | 4   | 26,9                     |       | 426.9-ACT        | 25                | 31,1<br>1.22       | 6,0<br>.24 | 59<br>2.32 | 40<br>1.57 | 42<br>1.65   | 30<br>1.18 |
|            |     | 28                       |       | 428-ACT          | 25                | 32,2<br>1.27       | 6,0<br>.24 |            |            |              |            |
|            |     | 30                       |       | 430-ACT          | 25                | 34,2<br>1.35       | 6,0<br>.24 |            |            |              |            |
| 5          | 5   | 32                       | 1 1/4 | 532-ACT          | 25                | 36,2<br>1.43       | 7<br>.28   | 71<br>2.80 | 52<br>2.05 | 58<br>2.28   | 30<br>1.18 |
|            |     | 35                       |       | 535-ACT          | 25                | 39,2<br>1.54       | 7<br>.28   |            |            |              |            |
|            |     | 38                       | 1 1/2 | 538-ACT          | 25                | 42,2<br>1.66       | 8<br>.31   |            |            |              |            |
|            |     | 42                       |       | 542-ACT          | 25                | 46,2<br>1.82       | 8<br>.31   |            |            |              |            |

Additional sizes and outside diameters are available upon request.  
Please contact STAUFF for further information.





## ACT Mounting Hardware

### Installation on Single Weld Plates

**Required components (for use with single weld plate):**

- 2 ACT Hexagon Head Bolts AS...W55
- 1 ACT Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the ACT Weld Plate is suitable for the expected loads.

Material Code  
**W55**

## ACT Mounting Hardware

### Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

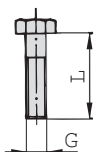
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

**Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)**

## ACT Hexagon Head Bolt

### Type AS ... W55 (according to DIN 931 / 933)



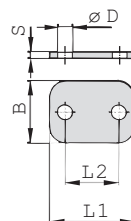
Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



| Group STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|------------------------------------|---------------|-------------------------------------|
| 1A           | 1   | M6 x 30                            | AS-M6x30-W55  | 25                                  |
|              |     | M6 x 1.18                          |               |                                     |
| 2            | 2   | M6 x 35                            | AS-M6x35-W55  | 25                                  |
|              |     | M6 x 1.38                          |               |                                     |
| 3            | 3   | M6 x 40                            | AS-M6x40-W55  | 25                                  |
|              |     | M6 x 1.57                          |               |                                     |
| 4            | 4   | M6 x 45                            | AS-M6x45-W55  | 25                                  |
|              |     | M6 x 1.77                          |               |                                     |
| 5            | 5   | M6 x 60                            | AS-M6x60-W55  | 25                                  |
|              |     | M6 x 2.36                          |               |                                     |

## ACT Cover Plate

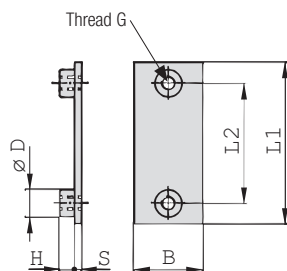
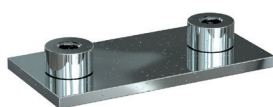
### Type DP ... W55



| Group STAUFF | DIN | Dimensions (mm/in) |      |      |     |     |     | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|------|------|-----|-----|-----|---------------|-------------------------------------|
| 1A           | 1   | L1                 | L2   | B    | S   | H   | ØD  | DP-1A-W55     | 25                                  |
|              |     | 34                 | 20   | 30   | 3   | 7   | .28 |               |                                     |
|              |     | 1.34               | .79  | 1.18 | .12 | .28 |     |               |                                     |
| 2            | 2   | L1                 | L2   | B    | S   | H   | ØD  | DP-2-W55      | 25                                  |
|              |     | 40.5               | 26   | 30   | 3   | 7   | .28 |               |                                     |
|              |     | 1.59               | 1.02 | 1.18 | .12 | .28 |     |               |                                     |
| 3            | 3   | L1                 | L2   | B    | S   | H   | ØD  | DP-3-W55      | 25                                  |
|              |     | 48                 | 33   | 30   | 3   | 7   | .28 |               |                                     |
|              |     | 1.89               | 1.30 | 1.18 | .12 | .28 |     |               |                                     |
| 4            | 4   | L1                 | L2   | B    | S   | H   | ØD  | DP-4-W55      | 25                                  |
|              |     | 57                 | 40   | 30   | 3   | 7   | .28 |               |                                     |
|              |     | 2.24               | 1.57 | 1.18 | .12 | .28 |     |               |                                     |
| 5            | 5   | L1                 | L2   | B    | S   | H   | ØD  | DP-5-W55      | 25                                  |
|              |     | 70                 | 52   | 30   | 3   | 7   | .28 |               |                                     |
|              |     | 2.76               | 2.05 | 1.18 | .12 | .28 |     |               |                                     |

## ACT Single Weld Plate

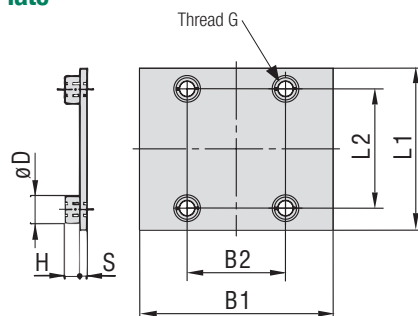
### Type SP ... W55



| Group STAUFF | DIN | Dimensions (mm/in) |    |    |    |   |     |    | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|----|----|----|---|-----|----|---------------|-------------------------------------|
| 1A           | 1   | G                  | L1 | L2 | B  | S | H   | ØD | SP-1A-M-W55   | 25                                  |
|              |     | M6                 | 36 | 20 | 30 | 3 | 6.5 | 12 |               |                                     |
| 2            | 2   | G                  | L1 | L2 | B  | S | H   | ØD | SP-2-M-W55    | 25                                  |
|              |     | M6                 | 42 | 26 | 30 | 3 | 6.5 | 12 |               |                                     |
| 3            | 3   | G                  | L1 | L2 | B  | S | H   | ØD | SP-3-M-W55    | 25                                  |
|              |     | M6                 | 50 | 33 | 30 | 3 | 6.5 | 12 |               |                                     |
| 4            | 4   | G                  | L1 | L2 | B  | S | H   | ØD | SP-4-M-W55    | 25                                  |
|              |     | M6                 | 60 | 40 | 30 | 3 | 6.5 | 12 |               |                                     |
| 5            | 5   | G                  | L1 | L2 | B  | S | H   | ØD | SP-5-M-W55    | 25                                  |
|              |     | M6                 | 71 | 52 | 30 | 3 | 6.5 | 12 |               |                                     |

## ACT Double Weld Plate

### Type SPD ... W55

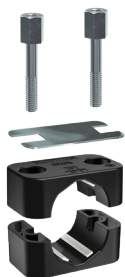


| Group STAUFF | DIN | Dimensions (mm/in) |    |    |    |      |   |     |    | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|----|----|----|------|---|-----|----|---------------|-------------------------------------|
| 1A           | 1   | G                  | L1 | L2 | B1 | B2   | S | H   | ØD | SPD-1A-M-W55  | 25                                  |
|              |     | M6                 | 36 | 20 | 60 | 30.5 | 3 | 6.5 | 12 |               |                                     |
| 2            | 2   | G                  | L1 | L2 | B1 | B2   | S | H   | ØD | SPD-2-M-W55   | 25                                  |
|              |     | M6                 | 42 | 26 | 60 | 30.5 | 3 | 6.5 | 12 |               |                                     |
| 3            | 3   | G                  | L1 | L2 | B1 | B2   | S | H   | ØD | SPD-3-M-W55   | 25                                  |
|              |     | M6                 | 50 | 33 | 60 | 30.5 | 3 | 6.5 | 12 |               |                                     |



Alternative types of weld plates are available upon request. Please contact STAUFF for further information.





## ACT Mounting Hardware Multi-Level Installation (with Weld Plate)

### Required components for each level:

- 2 ACT Stacking Bolt AF...W55
- 1 ACT Safety Locking Plate SIG...ACT-W55
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer is secured by a cover plate and hexagon head bolts. The lower layer has to be mounted to a weld plate (with a recommended maximum of two levels in total).

Material Code  
**W55**

## ACT Mounting Hardware Material Properties and Handling Instructions

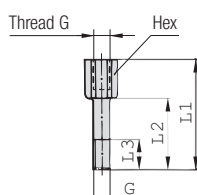
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

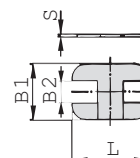
Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## ACT Stacking Bolt Type AF ... W55



| Group | STAUFF | DIN | Dimensions (mm/in)  | Ordering Code    | Packaging Unit<br>(in pieces / bag) |
|-------|--------|-----|---------------------|------------------|-------------------------------------|
|       |        |     | G L1 L2 L3 min. Hex |                  |                                     |
| 1A    | 1      | M6  | 34 20 12 11         | AF-1/1A/1D-M-W55 | 25                                  |
|       |        |     | 1.34 .79 .47 .43    |                  |                                     |
| 2     | 2      | M6  | 40 26 12 11         | AF-2-M-W55       | 25                                  |
|       |        |     | 1.57 1.24 .47 .43   |                  |                                     |
| 3     | 3      | M6  | 44 30 12 11         | AF-3-M-W55       | 25                                  |
|       |        |     | 1.73 1.18 .47 .43   |                  |                                     |
| 4     | 4      | M6  | 49 35 12 11         | AF-4-M-W55       | 25                                  |
|       |        |     | 1.93 1.38 .47 .43   |                  |                                     |
| 5     | 5      | M6  | 64 50 12 11         | AF-5-M-W55       | 25                                  |
|       |        |     | 2.52 1.97 .47 .43   |                  |                                     |

## ACT Safety Locking Plate Type SIG ... ACT-W55



| Group | STAUFF | DIN | Dimensions (mm/in) | Ordering Code  | Packaging Unit<br>(in pieces / bag) |
|-------|--------|-----|--------------------|----------------|-------------------------------------|
|       |        |     | L B1 B2 S          |                |                                     |
| 1A    | 1      |     | 33 28 11,2 2       | SIG-1A-ACT-W55 | 25                                  |
|       |        |     | 1.30 1.10 .44 .08  |                |                                     |
| 2     | 2      |     | 39 28 11,2 2       | SIG-2-ACT-W55  | 25                                  |
|       |        |     | 1.54 1.10 .44 .08  |                |                                     |
| 3     | 3      |     | 47 28 11,2 2       | SIG-3-ACT-W55  | 25                                  |
|       |        |     | 1.85 1.10 .44 .08  |                |                                     |
| 4     | 4      |     | 56 28 11,2 2       | SIG-4-ACT-W55  | 25                                  |
|       |        |     | 2.20 1.10 .44 .08  |                |                                     |
| 5     | 5      |     | 69 28 11,2 2       | SIG-5-ACT-W55  | 25                                  |
|       |        |     | 2.72 1.10 .44 .08  |                |                                     |





## ACT Mounting Hardware

### Installation with Channel Rail Adaptors

#### Required components:

- 2 ACT Hexagon Head Bolts AS...W55
- 1 ACT Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Channel Rail Adaptors CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).

Material Code  
**W55**

## ACT Mounting Hardware

### Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

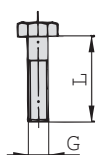
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## ACT Hexagon Head Bolt

### Type AS ... W55 (according to DIN 931 / 933)



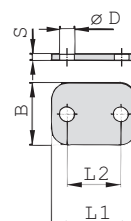
Dimensions applicable only when used with Cover Plate DP and Weld Plate SP



| Group STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|------------------------------------|---------------|-------------------------------------|
| 1A           | 1   | M6 x 30                            | AS-M6x30-W55  | 25                                  |
|              |     | M6 x 1.18                          |               |                                     |
| 2            | 2   | M6 x 35                            | AS-M6x35-W55  | 25                                  |
|              |     | M6 x 1.38                          |               |                                     |
| 3            | 3   | M6 x 40                            | AS-M6x40-W55  | 25                                  |
|              |     | M6 x 1.57                          |               |                                     |
| 4            | 4   | M6 x 45                            | AS-M6x45-W55  | 25                                  |
|              |     | M6 x 1.77                          |               |                                     |
| 5            | 5   | M6 x 60                            | AS-M6x60-W55  | 25                                  |
|              |     | M6 x 2.36                          |               |                                     |

## ACT Cover Plate

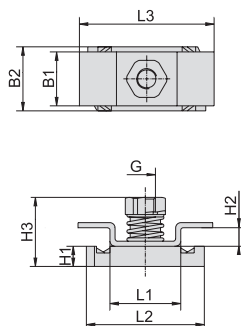
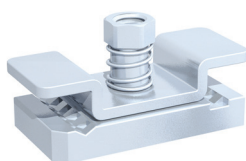
### Type DP ... W55



| Group STAUFF | DIN | Dimensions (mm/in) |      |      |     |     | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|------|------|-----|-----|---------------|-------------------------------------|
| 1A           | 1   | L1                 | L2   | B    | S   | ØD  | DP-1A-W55     | 25                                  |
|              |     | 34                 | 20   | 30   | 3   | 7   |               |                                     |
|              |     | 1.34               | .79  | 1.18 | .12 | .28 |               |                                     |
| 2            | 2   | 40,5               | 26   | 30   | 3   | 7   | DP-2-W55      | 25                                  |
|              |     | 1.59               | 1.02 | 1.18 | .12 | .28 |               |                                     |
|              |     | 48                 | 33   | 30   | 3   | 7   |               |                                     |
| 3            | 3   | 1.89               | 1.30 | 1.18 | .12 | .28 | DP-3-W55      | 25                                  |
|              |     | 57                 | 40   | 30   | 3   | 7   |               |                                     |
|              |     | 2.24               | 1.57 | 1.18 | .12 | .28 |               |                                     |
| 4            | 4   | 70                 | 52   | 30   | 3   | 7   | DP-4-W55      | 25                                  |
|              |     | 2.76               | 2.05 | 1.18 | .12 | .28 |               |                                     |
|              |     |                    |      |      |     |     |               |                                     |

## ACT Channel Rail Adaptor

### Type CRA ... W55

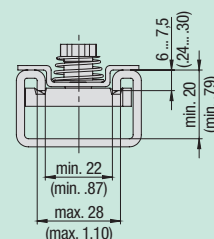


| Group STAUFF | DIN | Dimensions (mm/in) |     |      |      |     |     |     |     |      | Ordering Code    | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|-----|------|------|-----|-----|-----|-----|------|------------------|-------------------------------------|
| 1A           | 1   | G                  | L1  | L2   | L3   | B1  | B2  | H1  | H2  | H3   | CRA-1-8/1D-M-W55 | 25                                  |
| 2            | 2   |                    |     |      |      |     |     |     |     |      |                  |                                     |
| 3            | 3   | M6                 | 21  | 35   | 40   | 16  | 19  | 6   | 5,5 | 20,5 |                  |                                     |
| 4            | 4   |                    | .83 | 1.38 | 1.57 | .63 | .75 | .24 | .22 | .81  |                  |                                     |
| 5            | 5   |                    |     |      |      |     |     |     |     |      |                  |                                     |

### Suitability Chart for ACT Channel Rail Adaptors in the Standard Series

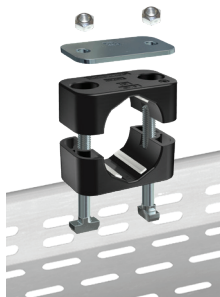
The STAUFF Channel Rail Adaptor, type CRA, is suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.). The drawing describes the basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA.

In case of doubt, please do not hesitate to contact STAUFF prior to field application.



## ACT Mounting Hardware

### Installation in Field Trays / Cable Ladders



#### Required components:

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

Material Code  
**W55**

## ACT Mounting Hardware

### Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

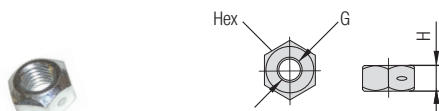
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## All-Metal Self-Locking ACT Nut

### Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



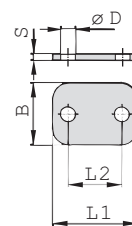
For use with ACT Hammerhead Bolts HKS ... W55



| Group | STAUFF | DIN | Dimensions (mm/in) | Hex | Ordering Code  | Packaging Unit (in pieces / bag) |
|-------|--------|-----|--------------------|-----|----------------|----------------------------------|
|       |        |     | Thread G           | H   |                |                                  |
| 1A    | 1      |     |                    |     |                |                                  |
| 2     | 2      |     |                    |     |                |                                  |
| 3     | 3      |     | M6                 | 5   | MUS-HKS-M6-W55 | 25                               |
| 4     | 4      |     |                    | .20 |                |                                  |
| 5     | 5      |     |                    | .39 |                |                                  |

## ACT Cover Plate

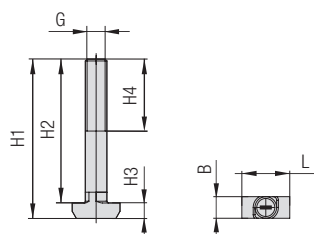
### Type DP ... W55



| Group  |     | Dimensions (mm / in) |      |      |     |     | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------|-----|----------------------|------|------|-----|-----|---------------|-------------------------------------|
| STAUFF | DIN | L1                   | L2   | B    | S   | ØD  |               |                                     |
| 1A     | 1   | 34                   | 20   | 30   | 3   | 7   | DP-1A-W55     | 25                                  |
|        |     | 1.34                 | .79  | 1.18 | .12 | .28 |               |                                     |
| 2      | 2   | 40,5                 | 26   | 30   | 3   | 7   | DP-2-W55      | 25                                  |
|        |     | 1.59                 | 1.02 | 1.18 | .12 | .28 |               |                                     |
| 3      | 3   | 48                   | 33   | 30   | 3   | 7   | DP-3-W55      | 25                                  |
|        |     | 1.89                 | 1.30 | 1.18 | .12 | .28 |               |                                     |
| 4      | 4   | 57                   | 40   | 30   | 3   | 7   | DP-4-W55      | 25                                  |
|        |     | 2.24                 | 1.57 | 1.18 | .12 | .28 |               |                                     |
| 5      | 5   | 70                   | 52   | 30   | 3   | 7   | DP-5-W55      | 25                                  |
|        |     | 2.76                 | 2.05 | 1.18 | .12 | .28 |               |                                     |

## ACT Hammerhead Bolt

### Type HKS ... W55

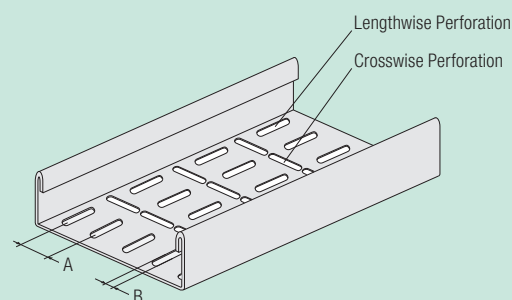


For use with Self-Locking ACT Nuts MUS-HKS ... W55



| STAINLESS STEEL |     |                    |      |      |     |        |     |      |               |                                   |
|-----------------|-----|--------------------|------|------|-----|--------|-----|------|---------------|-----------------------------------|
| Group           |     | Dimensions (mm/in) |      |      |     |        |     |      | Ordering Code | Packaging Unit<br>(in pcs. / bag) |
| STAUFF          | DIN | G                  | H1   | H2   | H3  | H4 min | B   | L    |               |                                   |
| 1A              | 1   | M6                 | 44,3 | 40   | 4,3 | 20     | 6,1 | 13,3 | HKS-M6x40-W55 | 25                                |
|                 |     |                    | 1.74 | 1.57 | .17 | .79    | .24 | .52  |               |                                   |
| 2               | 2   | M6                 | 49,3 | 45   | 4,3 | 20     | 6,1 | 13,3 | HKS-M6x45-W55 | 25                                |
|                 |     |                    | 1.94 | 1.77 | .17 | .79    | .24 | .52  |               |                                   |
| 3               | 3   | M6                 | 54,3 | 50   | 4,3 | 20     | 6,1 | 13,3 | HKS-M6x50-W55 | 25                                |
|                 |     |                    | 2.14 | 1.97 | .17 | .79    | .24 | .52  |               |                                   |
| 4               | 4   | M6                 | 59,3 | 55   | 4,3 | 20     | 6,1 | 13,3 | HKS-M6x55-W55 | 25                                |
|                 |     |                    | 2.33 | 2.17 | .17 | .79    | .24 | .52  |               |                                   |
| 5               | 5   | M6                 | 74,3 | 70   | 4,3 | 20     | 6,1 | 13,3 | HKS-M6x70-W55 | 25                                |
|                 |     |                    | 2.93 | 2.76 | .17 | .79    | .24 | .52  |               |                                   |

## Suitability Chart for ACT Hammerhead Bolts in the Standard Series

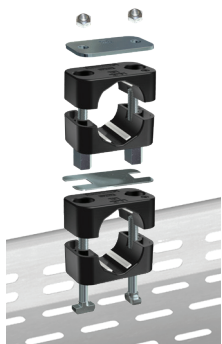


ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- Dimension A:** Equal to the bolt center spacing of the clamp assembly
- Dimension B:** 6,2 mm ... 7,0 mm / .24 in ... .28 in (Min ... Max)

In case of doubt, please do not hesitate to contact STAUFF prior to field application.





## ACT Mounting Hardware Multi-Level Installation (with Stacking & Hammerhead Bolts)

**Required components (for a recommended maximum of two levels in total):**

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Safety Locking Plate SIG...ACT-W55
- 2 ACT Stacking Bolts AF-HKSK...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HKSK ... W55

Material Code  
**W55**

## ACT Mounting Hardware Material Properties and Handling Instructions

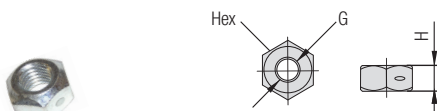
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

**Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)**

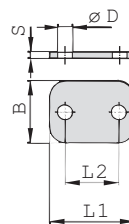
## All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Stacking Bolts AF-HKS ... W55

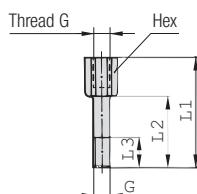
| Group | STAUFF | DIN | Dimensions (mm/in) | Hex | Ordering Code  | Packaging Unit (in pieces / bag) |
|-------|--------|-----|--------------------|-----|----------------|----------------------------------|
|       |        |     | Thread G           | H   |                |                                  |
| 1A    | 1      |     |                    |     |                |                                  |
| 2     | 2      | M6  | 5                  | 10  | MUS-HKS-M6-W55 | 25                               |
| 3     | 3      |     | .20                | .39 |                |                                  |

## ACT Cover Plate Type DP ... W55



| Group | STAUFF | DIN | Dimensions (mm/in)     | Ordering Code | Packaging Unit (in pieces / bag) |
|-------|--------|-----|------------------------|---------------|----------------------------------|
|       |        |     | L1 L2 B S ØD           |               |                                  |
| 1A    | 1      |     | 34 20 30 3 7           | DP-1A-W55     | 25                               |
|       |        |     | 1.34 .79 1.18 .12 .28  |               |                                  |
| 2     | 2      |     | 40,5 26 30 3 7         | DP-2-W55      | 25                               |
|       |        |     | 1.59 1.02 1.18 .12 .28 |               |                                  |
| 3     | 3      |     | 48 33 30 3 7           | DP-3-W55      | 25                               |
|       |        |     | 1.89 1.30 1.18 .12 .28 |               |                                  |

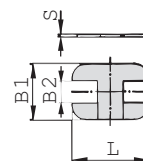
## ACT Stacking Bolt Type AF-HKSK ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

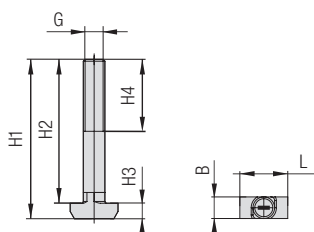
| Group | STAUFF | DIN | Dimensions (mm/in)  | Ordering Code    | Packaging Unit (in pieces / bag) |
|-------|--------|-----|---------------------|------------------|----------------------------------|
|       |        |     | G L1 L2 L3 min. Hex |                  |                                  |
| 1A    | 1      | M6  | 44 30 12 11         | AF-HKSK-1A-M-W55 | 25                               |
|       |        |     | 1.73 1.18 .47 .43   |                  |                                  |
| 2     | 2      | M6  | 54 40 12 11         | AF-HKSK-2-M-W55  | 25                               |
|       |        |     | 2.13 1.57 .47 .43   |                  |                                  |
| 3     | 3      | M6  | 54 40 12 11         | AF-HKSK-3-M-W55  | 25                               |
|       |        |     | 2.13 1.57 .47 .43   |                  |                                  |

## ACT Safety Locking Plate Type SIG ... ACT-W55



| Group | STAUFF | DIN | Dimensions (mm/in) | Ordering Code  | Packaging Unit (in pieces / bag) |
|-------|--------|-----|--------------------|----------------|----------------------------------|
|       |        |     | L B1 B2 S          |                |                                  |
| 1A    | 1      |     | 33 28 11,2 2       | SIG-1A-ACT-W55 | 25                               |
|       |        |     | 1.30 1.10 .44 .08  |                |                                  |
| 2     | 2      |     | 39 28 11,2 2       | SIG-2-ACT-W55  | 25                               |
|       |        |     | 1.54 1.10 .44 .08  |                |                                  |
| 3     | 3      |     | 47 28 11,2 2       | SIG-3-ACT-W55  | 25                               |
|       |        |     | 1.85 1.10 .44 .08  |                |                                  |

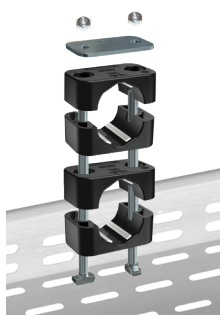
## ACT Hammerhead Bolt Type HKSK ... W55



| Group | STAUFF | DIN | Dimensions (mm/in)        | Ordering Code  | Packaging Unit (in pcs. / bag) |
|-------|--------|-----|---------------------------|----------------|--------------------------------|
|       |        |     | G H1 H2 H3 H4 min B L     |                |                                |
| 1A    | 1      | M6  | 29,3 25 4,3 20 6,1 13,3   | HKSK-M6x25-W55 | 25                             |
|       |        |     | 1.15 .98 .17 .79 .24 .52  |                |                                |
| 2     | 2      | M6  | 36,3 32 4,3 20 6,1 13,3   | HKSK-M6x32-W55 | 25                             |
|       |        |     | 1.43 1.26 .17 .79 .24 .52 |                |                                |
| 3     | 3      | M6  | 39,3 35 4,3 20 6,1 13,3   | HKSK-M6x35-W55 | 25                             |
|       |        |     | 1.55 1.38 .17 .79 .24 .52 |                |                                |







## ACT Mounting Hardware

### Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)

**Required components (for a recommended maximum of two levels in total):**

- 2 ACT Self-Locking Nuts MUS-HKS ... W55
- 1 ACT Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 ACT Hammerhead Bolts HKSV ... W55

Material Code  
**W55**

## ACT Mounting Hardware

### Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

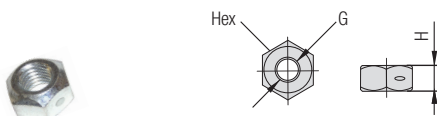
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

**Details:** [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## All-Metal Self-Locking ACT Nut

### Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)

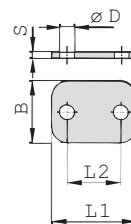


For use with ACT Hammerhead Bolts HKS ... W55

| Group | STAUFF | DIN | Dimensions (mm/in) | Hex | Ordering Code  | Packaging Unit (in pieces / bag) |
|-------|--------|-----|--------------------|-----|----------------|----------------------------------|
|       |        |     | Thread G           | H   |                |                                  |
| 1A    | 1      |     |                    |     |                |                                  |
| 2     | 2      |     | M6                 | 5   | MUS-HKS-M6-W55 | 25                               |
|       |        |     |                    | .20 |                |                                  |
| 3     | 3      |     |                    | 10  |                |                                  |
|       |        |     |                    | .39 |                |                                  |

## ACT Cover Plate

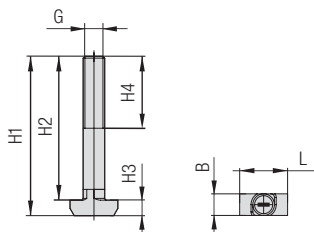
### Type DP ... W55



| Group  |     | Dimensions (mm/in) |            |            |          |          |           | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------|-----|--------------------|------------|------------|----------|----------|-----------|---------------|-------------------------------------|
| STAUFF | DIN | L1                 | L2         | B          | S        | ØD       |           |               |                                     |
| 1A     | 1   | 34<br>1.34         | 20<br>.79  | 30<br>1.18 | 3<br>.12 | 7<br>.28 | DP-1A-W55 | 25            |                                     |
| 2      | 2   | 40,5<br>1.59       | 26<br>1.02 | 30<br>1.18 | 3<br>.12 | 7<br>.28 |           |               |                                     |
| 3      | 3   | 48<br>1.89         | 33<br>1.30 | 30<br>1.18 | 3<br>.12 | 7<br>.28 | DP-3-W55  | 25            |                                     |

## ACT Hammerhead Bolt

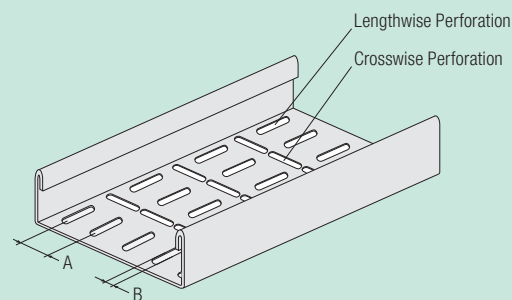
### Type HKSV ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

| Group  |     | Dimensions (mm / in) |              |            |            |           |            |             |                | Ordering Code   | Packaging Unit |
|--------|-----|----------------------|--------------|------------|------------|-----------|------------|-------------|----------------|-----------------|----------------|
| STAUFF | DIN | G                    | H1           | H2         | H3         | H4 min    | B          | L           |                | (in pcs. / bag) |                |
| 1A     | 1   | M6                   | 68,3<br>2.69 | 64<br>2.52 | 4,3<br>.17 | 20<br>.79 | 6,1<br>.24 | 13,3<br>.52 | HKSV-M6x64-W55 | 25              |                |
| 2      | 2   | M6                   | 80,3<br>3.16 | 76<br>2.99 | 4,3<br>.17 | 20<br>.79 | 6,1<br>.24 | 13,3<br>.52 | HKSV-M6x76-W55 | 25              |                |
| 3      | 3   | M6                   | 87,3<br>3.44 | 83<br>3.27 | 4,3<br>.17 | 20<br>.79 | 6,1<br>.24 | 13,3<br>.52 | HKSV-M6x83-W55 | 25              |                |

## Suitability Chart for ACT Hammerhead Bolts in the Standard Series



ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- **Dimension A:** Equal to the bolt center spacing of the clamp assembly
- **Dimension B:** 6,2 mm ... 7,0 mm / .24 in ... .28 in (Min ... Max)

In case of doubt, please do not hesitate to contact STAUFF prior to field application.



**Installation on Weld Plate**
Required components:

- 2 Hexagon Head Bolts AS...W55
- 1 Cover Plate DP...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the weld plate is suitable for the expected loads.

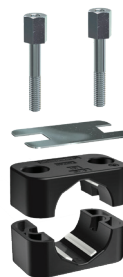

**Order Code**
**SP-110a-ACT-DP-AS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation (with Weld Plate)**
Required components (for each level)  
for a maximum of two levels in total:

- 2 Stacking Bolt AF...W55
- 1 Safety Locking Plate SIG...ACT-W55
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer has to be secured by a cover plate and hexagon head bolts.  
The lower level has to be mounted to a weld plate.


**Order Code**
**110a-ACT-SIG-AF-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Installation with Channel Rail Adaptors**
Required components:

- 2 Hexagon Head Bolts AS...W55
- 1 Cover Plate DP...W55
- 1 Clamp Body (2 Clamp Halves)
- 2 Channel Rail Adaptors CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).


**Order Code**
**CRA-110a-ACT-DP-AS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Installation in Field Trays / Cable Ladders**
Required components:

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


**Order Code**
**HKS-110a-ACT-DP-MUS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation  
in Field Trays / Cable Ladders**
Required components  
(for a maximum of two levels in total):

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Safety Locking Plate SIG...ACT-W55
- 2 Stacking Bolts AF-HKSK...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKSK ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


**Order Codes**

Upper Level: **HKSK-212.7-ACT-DP-MUS-M-W55**  
Lower Level: **212.7-ACT-SIG-AF-HKSK-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation  
in Field Trays / Cable Ladders**
Required components  
(for a maximum of two levels in total):

- 2 Self-Locking Nuts MUS-HKS ... W55
- 1 Cover Plate DP ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Clamp Body (2 Clamp Halves)
- 2 Hammerhead Bolts HKSV ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


**Order Codes**

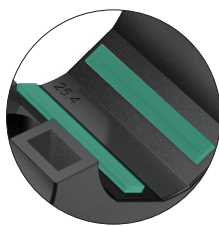
Upper Level: **212.7-ACT** (Clamp Body only)  
Lower Level: **HKSV-212.7-ACT-DP-MUS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

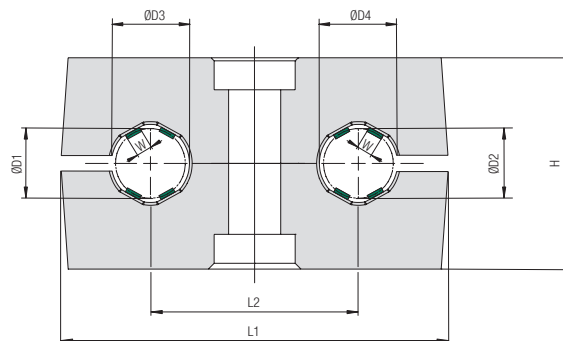


## Twin Series according to DIN 3015, Part 3

### ACT Clamp Body



Integrated Rubber Strips  
made of Anti-Corrosion Elastomer (ACE)



#### Ordering Codes

##### Clamp Body

**\*2\*12.7/12.7-\*ACT**

One clamp body consists of two identical clamp halves, each with four integrated rubber strips.

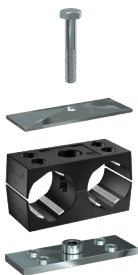
- \* 1<sup>st</sup> Part of STAUFF Group **2**
- \* Exact outside diameters Ø D1 / Ø D2 (mm) **12.7/12.7**
- \* Material code **ACT**

| Group Size |     | Outside Diameters<br>Ø D1 / Ø D2<br>(mm) (in) |     | Ordering Code<br>(2 Clamp Halves) | Packaging Unit<br>(in pieces / bag) | Dimensions (mm/in) |            |            |            |              |       |      |
|------------|-----|-----------------------------------------------|-----|-----------------------------------|-------------------------------------|--------------------|------------|------------|------------|--------------|-------|------|
| STAUFF     | DIN |                                               |     |                                   |                                     | ØD3 /<br>ØD4       | W          | L1         | L2         | H            | Width |      |
| 1D         | 1   | 6                                             |     | 106/06-ACT                        | 25                                  | 9<br>.35           | 1,4<br>.06 |            |            |              |       |      |
|            |     | 6,4                                           | 1/4 | 106.4/06.4-ACT                    | 25                                  | 9,4<br>.37         | 1,5<br>.06 |            |            |              |       |      |
|            |     | 9,5                                           | 3/8 | 109.5/09.5-ACT                    | 25                                  | 12,5<br>.49        | 2,2<br>.09 | 36<br>1.42 | 20<br>.79  | 26,6<br>1.05 | 30    | 1.18 |
|            |     | 10                                            |     | 110/10-ACT                        | 25                                  | 13<br>.51          | 2,3<br>.09 |            |            |              |       |      |
|            |     | 12                                            |     | 112/12-ACT                        | 25                                  | 15<br>.59          | 2,8<br>.11 |            |            |              |       |      |
| 2D         | 2   | 12,7                                          | 1/2 | 212.7/12.7-ACT                    | 25                                  | 15,7<br>.62        | 3,5<br>.14 | 53<br>2.09 | 29<br>1.14 | 26,6<br>1.05 | 30    | 1.18 |
|            |     | 14                                            |     | 214/14-ACT                        | 25                                  | 17<br>.67          | 3,5<br>.14 |            |            |              |       |      |
| 3D         | 3   | 18                                            |     | 318/18-ACT                        | 25                                  | 21<br>.83          | 3,5<br>.14 |            |            |              |       |      |
|            |     | 19                                            | 3/4 | 319/19-ACT                        | 25                                  | 22<br>.87          | 3,5<br>.14 |            |            |              |       |      |
|            |     | 20                                            |     | 320/20-ACT                        | 25                                  | 23<br>.91          | 3,5<br>.14 | 67<br>2.64 | 36<br>1.42 | 36,6<br>1.44 | 30    | 1.18 |
|            |     | 21,3                                          |     | 321.3/21.3-ACT                    | 25                                  | 24,3<br>.96        | 3,5<br>.14 |            |            |              |       |      |
|            |     | 25,4                                          | 1   | 325.4/25.4-ACT                    | 25                                  | 28,4<br>1.12       | 3,5<br>.14 |            |            |              |       |      |

Additional outside diameters and combinations of different outside diameters are available upon request.  
Please contact STAUFF for further information.



## ACT Mounting Hardware Installation on Single Weld Plates



### Required components:

- 1 ACT Hexagon Head Bolt AS...W55
- 1 ACT Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the ACT Weld Plate is suitable for the expected loads.

Material Code  
**W55**

## ACT Mounting Hardware Material Properties and Handling Instructions

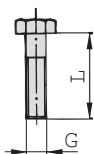
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)

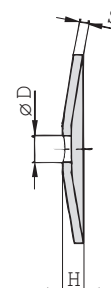
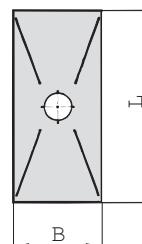
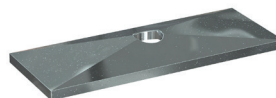


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



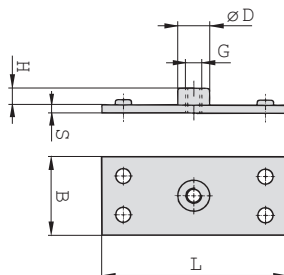
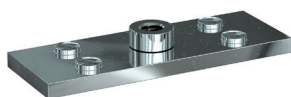
| Group STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|------------------------------------|---------------|-------------------------------------|
| 1D           | 1   | M6 x 35                            | AS-M6x35-W55  | 25                                  |
|              |     | M6 x 1.38                          |               |                                     |
| 2D           | 2   | M8 x 35                            | AS-M8x35-W55  | 25                                  |
|              |     | M8 x 1.38                          |               |                                     |
| 3D           | 3   | M8 x 45                            | AS-M8x45-W55  | 25                                  |
|              |     | M8 x 1.77                          |               |                                     |

## ACT Cover Plate Type GD ... W55



| Group STAUFF | DIN | Dimensions (mm/in) |      |     |     |     |           | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|------|-----|-----|-----|-----------|---------------|-------------------------------------|
|              |     | L                  | B    | H   | S   | ØD  |           |               |                                     |
| 1D           | 1   | 34                 | 30   | 7   | 3   | 7   | GD-1D-W55 | 25            |                                     |
|              |     | 1.34               | 1.18 | .28 | .12 | .28 |           |               |                                     |
| 2D           | 2   | 52                 | 30   | 7   | 3   | 9   | GD-2D-W55 | 25            |                                     |
|              |     | 2.05               | 1.18 | .28 | .12 | .35 |           |               |                                     |
| 3D           | 3   | 65                 | 30   | 7   | 3   | 9   | GD-3D-W55 | 25            |                                     |
|              |     | 2.56               | 1.18 | .28 | .12 | .35 |           |               |                                     |

## ACT Single Weld Plate Type SP ... W55



| Group STAUFF | DIN | Dimensions (mm/in) |      |      |     |     |     | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|------|------|-----|-----|-----|---------------|-------------------------------------|
|              |     | G                  | L    | B    | S   | H   | ØD  |               |                                     |
| 1D           | 1   | M6                 | 37   | 30   | 3   | 6.5 | 12  | SP-1D-M-W55   | 25                                  |
|              |     |                    | 1.46 | 1.18 | .12 | .26 | .47 |               |                                     |
| 2D           | 2   | M8                 | 55   | 30   | 5   | 6   | 14  | SP-2D-M-W55   | 25                                  |
|              |     |                    | 2.17 | 1.18 | .20 | .24 | .55 |               |                                     |
| 3D           | 3   | M8                 | 70   | 30   | 5   | 6   | 14  | SP-3D-M-W55   | 25                                  |
|              |     |                    | 2.76 | 1.18 | .20 | .24 | .55 |               |                                     |





## ACT Mounting Hardware Multi-Level Installation (with Weld Plate)

### Required components for each level:

- 1 ACT Stacking Bolt AF...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer is secured by a cover plate and hexagon head bolts. The lower layer has to be mounted to a weld plate (with a recommended maximum of two levels in total).

Material Code  
**W55**

## ACT Mounting Hardware Material Properties and Handling Instructions

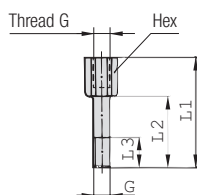
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

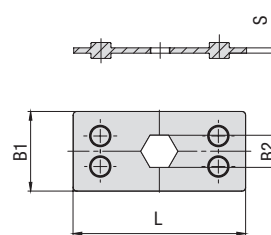
Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## ACT Stacking Bolt Type AF ... W55



| Group  |     | Dimensions (mm /in) |            |            |           |           |                  | Order Code | Packaging Unit    |
|--------|-----|---------------------|------------|------------|-----------|-----------|------------------|------------|-------------------|
| STAUFF | DIN | G                   | L1         | L2         | L3 min.   | Hex       |                  |            | (in pieces / bag) |
| 1D     | 1   | M6                  | 34<br>1.33 | 20<br>.78  | 12<br>.47 | 11<br>.43 | AF-1/1A/1D-M-W55 | 25         |                   |
| 2D     | 2   | M8                  | 33<br>1.30 | 20<br>.78  | 11<br>.43 | 12<br>.47 | AF-2D-M-W55      | 25         |                   |
| 3D     | 3   | M8                  | 44<br>1.73 | 29<br>1.14 | 15<br>.59 | 12<br>.47 | AF-3D-M-W55      | 25         |                   |

## ACT Safety Locking Plate Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

| Group  |     | Dimensions (mm/in) |            |             |          | Order Code       | Packaging Unit<br>(in pieces / bag) |
|--------|-----|--------------------|------------|-------------|----------|------------------|-------------------------------------|
| STAUFF | DIN | L                  | B1         | B2          | S        |                  |                                     |
| 1D     | 1   | 34<br>1.39         | 30<br>1.18 | 11,2<br>.44 | 2<br>.08 | SIV-1D-PP-V0-ACT | 25                                  |
| 2D     | 2   | 52<br>2.05         | 30<br>1.18 | 12,1<br>.48 | 2<br>.08 | SIV-2D-PP-V0-ACT | 25                                  |
| 3D     | 3   | 65<br>2.56         | 30<br>1.18 | 12,1<br>.48 | 2<br>.08 | SIV-3D-PP-V0-ACT | 25                                  |



## ACT Mounting Hardware Installation with Channel Rail Adaptors



### Required components:

- 1 ACT Hexagon Head Bolt AS...W55
- 1 ACT Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Channel Rail Adaptor CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).

## Material Code **W55** ACT Mounting Hardware Material Properties and Handling Instructions

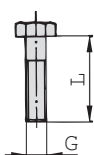
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## ACT Hexagon Head Bolt Type AS ... W55 (according to DIN 931 / 933)

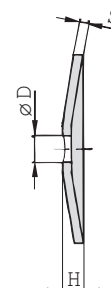
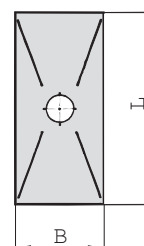


Dimensions applicable only when used with Cover Plate GD and Weld Plate SP



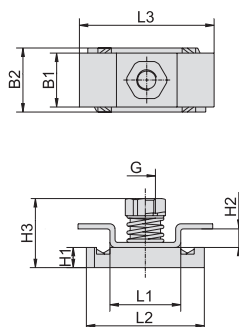
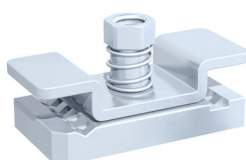
| Group STAUFF | DIN | Dimensions (mm/in)<br>Thread G x L | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|------------------------------------|---------------|-------------------------------------|
| 1D           | 1   | M6 x 35                            | AS-M6x35-W55  | 25                                  |
|              |     | M6 x 1.38                          |               |                                     |
| 2D           | 2   | M8 x 35                            | AS-M8x35-W55  | 25                                  |
|              |     | M8 x 1.38                          |               |                                     |
| 3D           | 3   | M8 x 45                            | AS-M8x45-W55  | 25                                  |
|              |     | M8 x 1.77                          |               |                                     |

## ACT Cover Plate Type GD ... W55



| Group STAUFF | DIN | Dimensions (mm/in) |      |     |     |     |  | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|--------------------|------|-----|-----|-----|--|---------------|-------------------------------------|
|              |     | L                  | B    | H   | S   | ØD  |  |               |                                     |
| 1D           | 1   | 34                 | 30   | 7   | 3   | 7   |  | GD-1D-W55     | 25                                  |
|              |     | 1.34               | 1.18 | .28 | .12 | .28 |  |               |                                     |
| 2D           | 2   | 52                 | 30   | 7   | 3   | 9   |  | GD-2D-W55     | 25                                  |
|              |     | 2.05               | 1.18 | .28 | .12 | .35 |  |               |                                     |
| 3D           | 3   | 65                 | 30   | 7   | 3   | 9   |  | GD-3D-W55     | 25                                  |
|              |     | 2.56               | 1.18 | .28 | .12 | .35 |  |               |                                     |

## Channel Rail Adaptor Type CRA ... W55

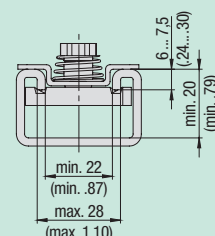


| Group STAUFF | DIN | Dimensions (mm/in)<br>G | L1  | L2   | L3   | B1   | B2  | H1  | H2  | H3   | Order Code       | Packaging Unit<br>(in pieces / bag) |
|--------------|-----|-------------------------|-----|------|------|------|-----|-----|-----|------|------------------|-------------------------------------|
| 1D           | 1   | M6                      | 21  | 35   | 40   | 16   | 19  | 6   | 5,5 | 20,5 | CRA-1-8/1D-M-W55 | 25                                  |
|              |     |                         | .83 | 1.38 | 1.57 | .63  | .75 | .24 | .22 | .81  |                  |                                     |
| 2D           | 2   | M8                      | 21  | 35   | 38   | 53   | 19  | 9   | 5,5 | 23,5 | CRA-2-3D-M-W55   | 25                                  |
|              |     |                         | .83 | 1.38 | 1.50 | 2.09 | .75 | .35 | .22 | .93  |                  |                                     |
| 3D           | 3   |                         |     |      |      |      |     |     |     |      |                  |                                     |

### Suitability Chart for ACT Channel Rail Adaptors in the Twin Series

The STAUFF Channel Rail Adaptor, type CRA, is suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.). The drawing describes the basic dimensional requirements for channel rails to be used with STAUFF Channel Rail Adaptors, type CRA.

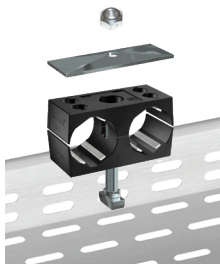
In case of doubt, please do not hesitate to contact STAUFF prior to field application.





## ACT Mounting Hardware

### Installation in Field Trays / Cable Ladders



#### Required components:

- 1 ACT Self-Locking Nut MUS-HKS ... W55
- 1 ACT Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.

Material Code  
**W55**

## ACT Mounting Hardware

### Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

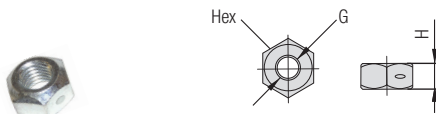
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## All-Metal Self-Locking ACT Nut

### Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)

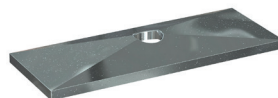


For use with ACT Hammerhead Bolts HKS ... W55

| Group | STAUFF | DIN | Dimensions (mm/in) |     |     | Ordering Code  | Packaging Unit    |
|-------|--------|-----|--------------------|-----|-----|----------------|-------------------|
|       |        |     | Thread G           | H   | Hex |                | (in pieces / bag) |
| 1D    | 1      | M6  | 5                  | 10  |     | MUS-HKS-M6-W55 | 25                |
|       |        |     | .20                | .39 |     |                |                   |
| 2D    | 2      | M8  | 6,5                | 13  |     | MUS-HKS-M8-W55 | 25                |
| 3D    | 3      |     | .26                | .51 |     |                |                   |

## ACT Cover Plate

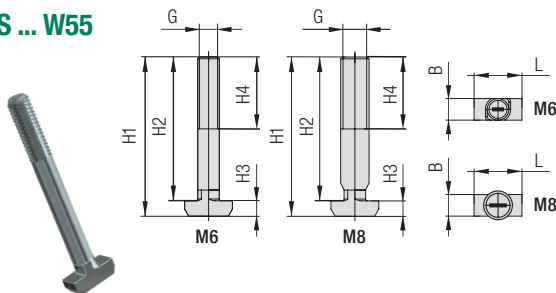
### Type GD ... W55



| Group  |     | Dimensions (mm/in) |            |          |          |          |           | Ordering Code | Packaging Unit<br>(in pieces / bag) |
|--------|-----|--------------------|------------|----------|----------|----------|-----------|---------------|-------------------------------------|
| STAUFF | DIN | L                  | B          | H        | S        | ØD       |           |               |                                     |
| 1D     | 1   | 34<br>1.34         | 30<br>1.18 | 7<br>.28 | 3<br>.12 | 7<br>.28 | GD-1D-W55 | 25            |                                     |
| 2D     | 2   | 52<br>2.05         | 30<br>1.18 | 7<br>.28 | 3<br>.12 | 9<br>.35 |           |               |                                     |
| 3D     | 3   | 65<br>2.56         | 30<br>1.18 | 7<br>.28 | 3<br>.12 | 9<br>.35 | GD-3D-W55 | 25            |                                     |

## ACT Hammerhead Bolt

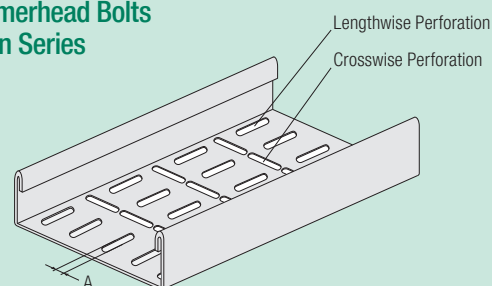
### Type HKS ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

| Group  |     | Dimensions (mm/in) |              |            |            |           |            |             |               | Ordering Code | Packaging Unit<br>(in pcs. / bag) |
|--------|-----|--------------------|--------------|------------|------------|-----------|------------|-------------|---------------|---------------|-----------------------------------|
| STAUFF | DIN | G                  | H1           | H2         | H3         | H4 min    | B          | L           |               |               |                                   |
| 1D     | 1   | M6                 | 49,3<br>1.94 | 45<br>1.77 | 4,3<br>.17 | 20<br>.79 | 6,1<br>.24 | 13,3<br>.52 | HKS-M6x45-W55 | 25            |                                   |
| 2D     | 2   | M8                 | 49,3<br>1.94 | 45<br>1.77 | 4,3<br>.17 | 20<br>.79 | 6<br>.24   | 13,3<br>.52 |               |               |                                   |
| 3D     | 3   | M8                 | 59,3<br>2.33 | 55<br>2.17 | 4,3<br>.17 | 20<br>.79 | 6<br>.24   | 13,3<br>.52 | HKS-M8x55-W55 | 25            |                                   |

## Suitability Chart for ACT Hammerhead Bolts in the Twin Series

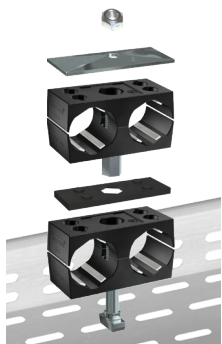


ACT Hammerhead Bolts are suitable for field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations that meet the following requirements:

- Dimension A: 6,2 mm ... 7,0 mm / .24 in ... .28 in (Min ... Max)

In case of doubt, please do not hesitate to contact STAUFF prior to field application.





## ACT Mounting Hardware Multi-Level Installation (with Stacking & Hammerhead Bolts)

**Required components (for a recommended maximum of two levels in total):**

- 1 ACT Self-Locking Nut MUS-HKS ... W55
- 1 ACT Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Stacking Bolt AF-HSK...W55
- 1 ACT Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HSK ... W55

Material Code  
**W55**

## ACT Mounting Hardware Material Properties and Handling Instructions

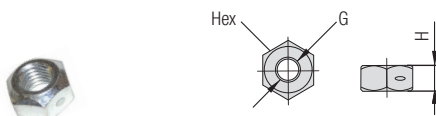
ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

**Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)**

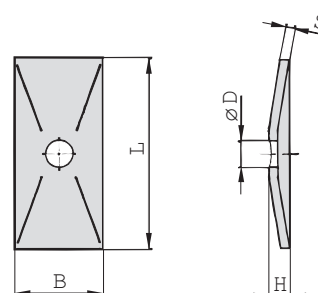
## All-Metal Self-Locking ACT Nut Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)



For use with ACT Stacking Bolts AF-HKS ... W55

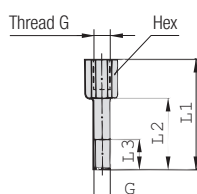
| Group | STAUFF | DIN | Dimensions (mm/in) | Ordering Code  | Packaging Unit    |
|-------|--------|-----|--------------------|----------------|-------------------|
|       |        |     | Thread G           |                | (in pieces / bag) |
|       |        |     | H                  |                |                   |
|       |        |     | Hex                |                |                   |
| 1D    | 1      | M6  | 5<br>.20           | MUS-HKS-M6-W55 | 25                |
| 2D    | 2      | M8  | 6.5<br>.26         | MUS-HKS-M8-W55 | 25                |
| 3D    | 3      | M8  | 13<br>.51          |                |                   |

## ACT Cover Plate Type GD ... W55



| Group | STAUFF | DIN | Dimensions (mm/in) | Ordering Code | Packaging Unit    |
|-------|--------|-----|--------------------|---------------|-------------------|
|       |        |     | L                  |               | (in pieces / bag) |
|       |        |     | B                  |               |                   |
|       |        |     | H                  |               |                   |
|       |        |     | S                  |               |                   |
|       |        |     | ØD                 |               |                   |
| 1D    | 1      |     | 34<br>1.34         | GD-1D-W55     | 25                |
| 2D    | 2      |     | 30<br>1.18         | GD-2D-W55     | 25                |
| 3D    | 3      |     | 7<br>.28           | GD-3D-W55     | 25                |

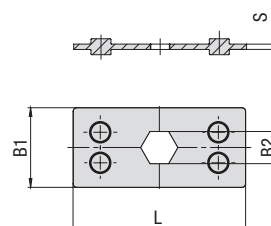
## ACT Stacking Bolt Type AF-HSK ... W55



For use with Self-Locking ACT Nuts MUS-HKS ... W55

| Group | STAUFF | DIN | Dimensions (mm/in) | Order Code      | Packaging Unit    |
|-------|--------|-----|--------------------|-----------------|-------------------|
|       |        |     | G                  |                 | (in pieces / bag) |
|       |        |     | L1                 |                 |                   |
|       |        |     | L2                 |                 |                   |
|       |        |     | L3 min.            |                 |                   |
|       |        |     | Hex                |                 |                   |
| 1D    | 1      | M6  | 49<br>1.93         | AF-HSK-1D-M-W55 | 25                |
| 2D    | 2      | M8  | 35<br>1.38         | AF-HSK-2D-M-W55 | 25                |
| 3D    | 3      | M8  | 12<br>.47          | AF-HSK-3D-M-W55 | 25                |

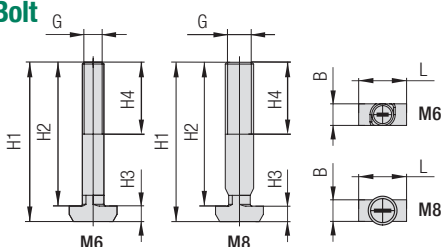
## ACT Safety Locking Plate Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

| Group | STAUFF | DIN | Dimensions (mm/in) | Order Code       | Packaging Unit    |
|-------|--------|-----|--------------------|------------------|-------------------|
|       |        |     | L                  |                  | (in pieces / bag) |
|       |        |     | B1                 |                  |                   |
|       |        |     | B2                 |                  |                   |
|       |        |     | S                  |                  |                   |
| 1D    | 1      |     | 34<br>1.39         | SIV-1D-PP-V0-ACT | 25                |
| 2D    | 2      |     | 30<br>1.18         | SIV-2D-PP-V0-ACT | 25                |
| 3D    | 3      |     | 11.2<br>.44        | SIV-3D-PP-V0-ACT | 25                |

## ACT Hammerhead Bolt Type HSK ... W55



| Group | STAUFF | DIN | Dimensions (mm/in) | Ordering Code | Packaging Unit  |
|-------|--------|-----|--------------------|---------------|-----------------|
|       |        |     | G                  |               | (in pcs. / bag) |
|       |        |     | H1                 |               |                 |
|       |        |     | H2                 |               |                 |
|       |        |     | H3                 |               |                 |
|       |        |     | H4 min             |               |                 |
|       |        |     | B                  |               |                 |
|       |        |     | L                  |               |                 |
| 1D    | 1      | M6  | 29.3<br>1.15       | HSK-M6x25-W55 | 25              |
| 2D    | 2      | M8  | 25<br>.98          | HSK-M8x28-W55 | 25              |
| 3D    | 3      | M8  | 4.3<br>.17         | HSK-M8x38-W55 | 25              |





## ACT Mounting Hardware

### Multi-Level Installation in Field Trays / Cable Ladders (with Hammerhead Bolts)

**Required components (for a recommended maximum of two levels in total):**

- 1 ACT Self-Locking Nut MUS-HKS ... W55
- 1 ACT Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Safety Locking Plate SIV-ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 ACT Hammerhead Bolt HKSV ... W55

Material Code  
**W55**

## ACT Mounting Hardware

### Material Properties and Handling Instructions

ACT Mounting Hardware is made of Stainless Steel V4A (Material Code: W55) with enhanced corrosion resistance by practically excluding metallic and non-metallic impurities during production, processing and handling.

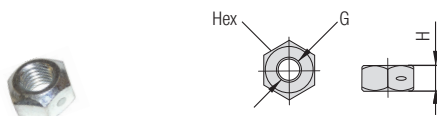
ACT Mounting Hardware is always delivered in hermetically-sealed quality storage bags with 25 pieces each to avoid contamination during transport.

**Always make sure that ACT Mounting Hardware is stored separately from carbon steel and any other metals, and that appropriate tools are used to assemble the clamps.**

Details: [www.stauff.com/act/assembly](http://www.stauff.com/act/assembly)

## All-Metal Self-Locking ACT Nut

### Type MUS-HKS ... W55 (similar to DIN 980 / Biloc)

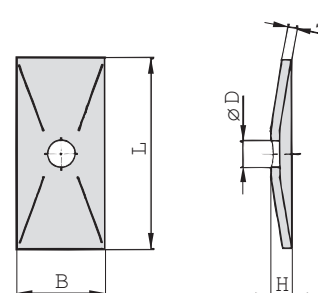
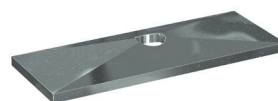


For use with ACT Hammerhead Bolts HKS ... W55

| Group | STAUFF | DIN | Dimensions (mm/in) | Hex       | Ordering Code  | Packaging Unit (in pieces / bag) |
|-------|--------|-----|--------------------|-----------|----------------|----------------------------------|
|       |        |     | Thread G           | H         |                |                                  |
| 1D    | 1      | M6  | 5<br>.20           | 10<br>.39 | MUS-HKS-M6-W55 | 25                               |
| 2D    | 2      | M8  | 6.5<br>.26         | 13<br>.51 | MUS-HKS-M8-W55 | 25                               |
| 3D    | 3      |     |                    |           |                |                                  |

## ACT Cover Plate

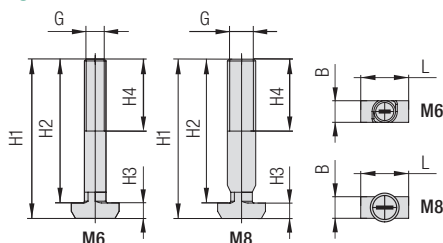
### Type GD ... W55



| Group | STAUFF | DIN | Dimensions (mm/in)                   | Ordering Code | Packaging Unit (in pieces / bag) |
|-------|--------|-----|--------------------------------------|---------------|----------------------------------|
|       |        |     | L B H S ØD                           |               |                                  |
| 1D    | 1      |     | 34 30 7 3 7<br>1.34 1.18 .28 .12 .28 | GD-1D-W55     | 25                               |
| 2D    | 2      |     | 52 30 7 3 9<br>2.05 1.18 .28 .12 .35 | GD-2D-W55     | 25                               |
| 3D    | 3      |     | 65 30 7 3 9<br>2.56 1.18 .28 .12 .35 | GD-3D-W55     | 25                               |

## ACT Hammerhead Bolt

### Type HKSV ... W55

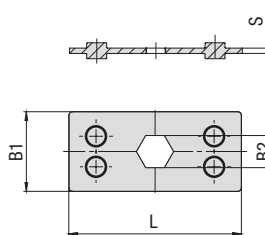


For use with Self-Locking ACT Nuts MUS-HKS ... W55

| Group | STAUFF | DIN | Dimensions (mm/in)                                   | Ordering Code  | Packaging Unit (in pcs. / bag) |
|-------|--------|-----|------------------------------------------------------|----------------|--------------------------------|
|       |        |     | G H1 H2 H3 H4 min B L                                |                |                                |
| 1D    | 1      | M6  | 76,3 72 4,3 20 6,1 13,3<br>3.00 2.83 .17 .79 .24 .52 | HKSV-M6x72-W55 | 25                             |
| 2D    | 2      | M8  | 77,3 73 4,3 20 6 13,3<br>3.04 2.87 .17 .79 .24 .52   | HKSV-M8x73-W55 | 25                             |
| 3D    | 3      | M8  | 97,3 93 4,3 20 6 13,3<br>3.83 3.66 .17 .79 .24 .52   | HKSV-M8x93-W55 | 25                             |

## ACT Safety Locking Plate

### Type SIV ... ACT



Made of flame-retardant PP-V0 plastic material; tested and V0 classified according to UL 94

| Group | STAUFF | DIN | Dimensions (mm/in)                | Order Code       | Packaging Unit (in pieces / bag) |
|-------|--------|-----|-----------------------------------|------------------|----------------------------------|
|       |        |     | L B1 B2 S                         |                  |                                  |
| 1D    | 1      |     | 34 30 11,2 2<br>1.39 1.18 .44 .08 | SIV-1D-PP-V0-ACT | 25                               |
| 2D    | 2      |     | 52 30 12,1 2<br>2.05 1.18 .48 .08 | SIV-2D-PP-V0-ACT | 25                               |
| 3D    | 3      |     | 65 30 12,1 2<br>2.56 1.18 .48 .08 | SIV-3D-PP-V0-ACT | 25                               |



**Installation on Weld Plate**
Required components:

- 1 Hexagon Head Bolt AS...W55
- 1 Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Single Weld Plate SP...W55

Before welding, always make sure that the designated position of the weld plate is suitable for the expected loads.


**Order Code**
**SP-110/10-ACT-GD-AS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation (with Weld Plate)**
Required components (for each level)  
for a maximum of two levels in total:

- 1 Stacking Bolt AF...W55
- 1 Safety Locking Plate SIG...W55
- 1 ACT Clamp Body (2 Clamp Halves)

The upper layer has to be secured by a cover plate and hexagon head bolts.  
The lower level has to be mounted to a weld plate.


**Order Code**
**110/10-ACT-SIV-ACT-AF-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Installation with Channel Rail Adaptors**
Required components:

- 1 Hexagon Head Bolt AS...W55
- 1 Cover Plate GD...W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Channel Rail Adaptor CRA...W55

Suitable for various brands and types of channel rails (including Halfen, Hilti, Unistrut® etc.).


**Order Code**
**CRA-110/10-ACT-GD-AS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Installation in Field Trays / Cable Ladders**
Required components:

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKS ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


**Order Code**
**HKS-110/10-ACT-GD-MUS-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation  
in Field Trays / Cable Ladders**
Required components  
(for a maximum of two levels in total):

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Stacking Bolt AF-HKSK...W55
- 1 Safety Locking Plate SIV...ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKSK ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.


**Order Codes**

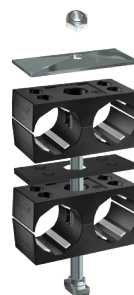
Upper Level: **HKSK-212.7/12.7-ACT-GD-MUS-M-W55**  
Lower Level: **212.7/12.7-ACT-SIV-ACT-AF-HKSK-M-W55**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.

**Multi-Level Installation  
in Field Trays / Cable Ladders**
Required components  
(for a maximum of two levels in total):

- 1 Self-Locking Nut MUS-HKS ... W55
- 1 Cover Plate GD ... W55
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Safety Locking Plate SIV-ACT
- 1 ACT Clamp Body (2 Clamp Halves)
- 1 Hammerhead Bolt HKSV ... W55

Suitable for commonly used field trays and cable ladders with diagonal, lengthwise and/or crosswise slots and perforations.













**Order Codes**

Upper Level: **HKSV-212.7/12.7-ACT-GD-MUS-M-W55**  
Lower Level: **212.7/12.7-ACT-SIV-ACT**

W55 is the recommended option for metal hardware to be used with STAUFF ACT Clamps.





|                                                                                     |                                                           |           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
|                                                                                     | <b>Introduction</b>                                       | <b>92</b> |
|    | <b>Weld Stud with Female Thread</b><br>SWG-SF             | <b>92</b> |
|    | <b>Distance Plate for DIN 3015 Clamps</b><br>SWG-DIP      | <b>93</b> |
|    | <b>Cable Tie Holder</b><br>SWG-CTH-11-M6                  | <b>93</b> |
|    | <b>Cable Tie / Tension Belt Holder</b><br>SWG-CTH-30-M6-1 | <b>93</b> |
|    | <b>Cable Tie / Tension Belt Holder</b><br>SWG-CTH-30-M6-2 | <b>93</b> |
|    | <b>Starterkit</b><br>SWG-WI06-Starterkit                  | <b>94</b> |
|    | <b>Weld Inverter</b><br>SWG-WI06                          | <b>94</b> |
|   | <b>Weld Gun - Arc Ignition</b><br>SWG-WG                  | <b>94</b> |
|  | <b>Distance Adaptor</b><br>SWG-AGS                        | <b>95</b> |
|  | <b>Distance Tube</b><br>DIT-SR6-SWG                       | <b>95</b> |
|  | <b>Stud Retainer</b><br>SWG-SR6                           | <b>95</b> |
|                                                                                     | <b>Ground Cable</b><br>SWG-GC                             | <b>95</b> |





## STAUFF SWG Stud Welding System

In many areas, stud welding is considered to be the most economic fastening method for components and is sometimes even the only technically feasible solution. Because the stud is joined with the substructure over the entire surface of the stud, a high strength of the joint can be achieved.

STAUFF is now using this proven principle for the installation of pipe, tube, hose and cable clamps in the Standard Series (according to DIN 3015, part 1) as well as in the Twin Series (according to DIN 3015, part 3) with M6 mounting thread, where female threaded weld studs replace the regular weld plates; distance plates made from plastic provide the necessary spacing between the clamp bodies and the substructure.

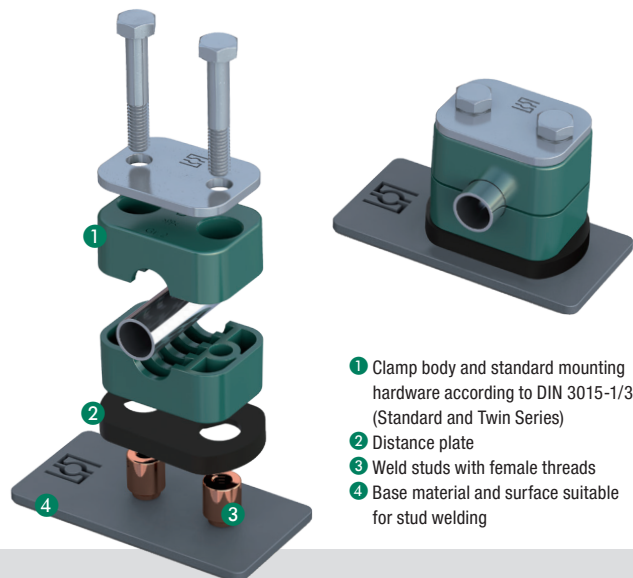
If required, the system can also be adopted for alternative fastening methods, e.g. for clamping belts, cable ties or conduit hoses.

In addition to the individual components – weld studs, distance plates, clamp bodies and metal hardware required – STAUFF also provides the correspondingly designed assembly tools such as the weld inverter and the weld gun with distance tube, stud retainer and distance adaptor for DIN 3015 clamps. The lightweight and compact weld inverter works without high-voltage current.

Thanks to increased productivity and flexibility for the installation of clamps, the system offers considerable savings potentials for users with significant processing volumes, especially when working in horizontal or overhead position. The amount of rework on welding locations can be significantly decreased, and material distortion is reduced to a minimum through low thermal stress.

The joint of the weld stud with the substructure impresses in particular with a high degree of strength and safety, which is at least at the same level as for regular weld plates.

- Developed and optimised to the functions of original STAUFF Clamps in the Standard Series (DIN 3015, Part 1)
- Versatile combination and adaptation options available (e.g. fastening elements for conduit hoses, clamping belts and cable ties)
- All installation options are fully covered by only one weld stud
- Significant time and cost savings by a quicker welding process and reduced rework on welding locations
- Material distortion reduced to a minimum through low thermal stress (particularly significant when handling thin metal sheets)
- High degree of safety and protection against corrosion due to a welded joint over the whole surface
- Lightweight and compact designed welding inverter
- By default no shielding gas or ceramic ferrule required
- Works without high-voltage current



- 1 Clamp body and standard mounting hardware according to DIN 3015-1/3 (Standard and Twin Series)
- 2 Distance plate
- 3 Weld studs with female threads
- 4 Base material and surface suitable for stud welding

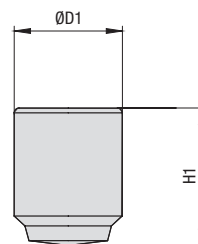
Assembly using  
weld plates  
100%

Reduction of the  
assembly time  
per clamp\*

Assembly using the  
stud welding system  
23%

\*For a typical assembly procedure in production environments.

## Weld Stud with Female Thread Type SWG-SF



### Ordering Codes

**Weld Stud** \*SWG-SF-\*M6x11x14-\*W124

\* Weld Stud with Female Thread **SWG-SF**

\* Thread code Metric ISO thread **M6x11x14**  
Unified coarse (UNC) thread **UNC1/4-20x11x14**

\* Material code Steel 4.8 with galvanised copper coating C1E **W124**  
(DIN EN ISO 4042)

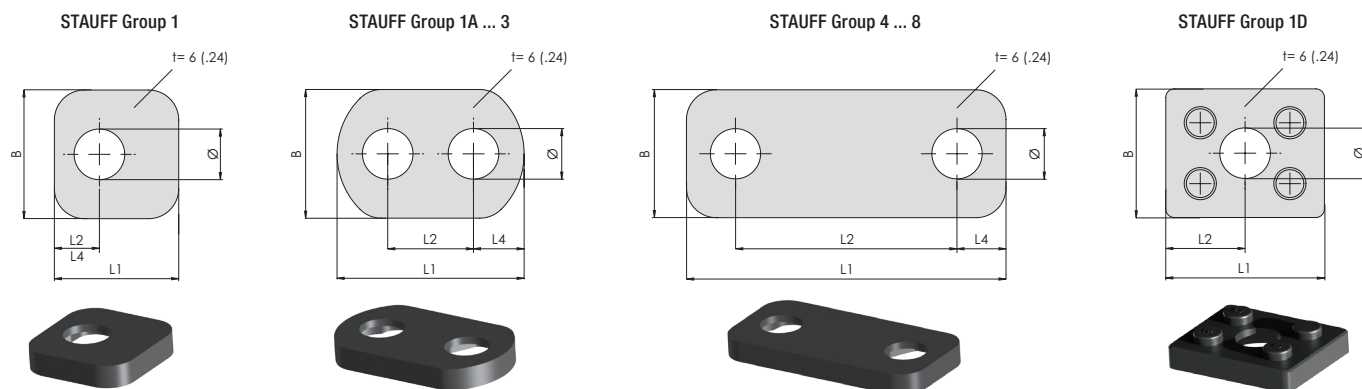
| Group   | STAUFF  | DIN        | Dimensions (mm/in) |     |     | Order Codes (Standard Options) | Packaging Units (in pcs. / per bag) |
|---------|---------|------------|--------------------|-----|-----|--------------------------------|-------------------------------------|
|         |         |            | Thread G           | ØD1 | H1  |                                |                                     |
| 1 ... 8 | 0 ... 8 | M6         |                    | 11  | 14  | SWG-SF-M6x11x14-W124           | 100                                 |
|         |         |            |                    | .43 | .55 |                                |                                     |
|         |         | 1/4-20 UNC |                    | 11  | 14  | SWG-SF-UNC1/4-20x11x14-W124    | 100                                 |
|         |         |            |                    | .43 | .55 |                                |                                     |

Alternative materials are available upon request. Please contact STAUFF for further information.

Maximum torque rating: 6 N-m / 4.43 ft-lb. Specific series can further limit the torque rating.  
The maximum loads in pipe direction listed on page 161 reduce accordingly.  
In case of doubt, please contact STAUFF in advance.



## Distance Plate for DIN 3015 Clamps Type SWG-DIP



| Group<br>STAUFF | DIN | Pipe/Tube-Ø (mm/in)<br>Clamp Body | Dimensions (mm/in) |      |      |    |      | Order Codes<br>(Standard Options) | Packaging Units<br>(in pcs. / per bag) |
|-----------------|-----|-----------------------------------|--------------------|------|------|----|------|-----------------------------------|----------------------------------------|
| 1               | 0   | 6 ... 12<br>.24 ... .48           | 29                 | 10,5 | 10,5 | 30 | 11,8 | SWG-DIP-1-PP-BK                   | 25                                     |
| 1A              | 1   | 6 ... 12<br>.24 ... .48           | 43,5               | 20   | 11,8 | 30 | 11,8 | SWG-DIP-1A-PP-BK                  | 25                                     |
| 2               | 2   | 12,7 ... 18<br>.50 ... .71        | 48,5               | 26   | 11,3 | 30 | 11,8 | SWG-DIP-2-PP-BK                   | 25                                     |
| 3               | 3   | 19 ... 25,4<br>.75 ... 1.00       | 56,5               | 33   | 11,8 | 30 | 11,8 | SWG-DIP-3-PP-BK                   | 25                                     |
| 4               | 4   | 26,9 ... 32<br>1.06 ... 1.26      | 62                 | 40   | 11   | 30 | 11,8 | SWG-DIP-4-PP-BK                   | 25                                     |
| 5               | 5   | 32 ... 42<br>1.26 ... 1.65        | 75                 | 52   | 11,5 | 30 | 11,8 | SWG-DIP-5-PP-BK                   | 25                                     |
| 6               | 6   | 44,5 ... 54<br>1.75 ... 2.12      | 88                 | 66   | 11   | 30 | 11,8 | SWG-DIP-6-PP-BK                   | 25                                     |
| 7               | 7   | 57,2 ... 76,1<br>2.25 ... 3.00    | 121                | 94   | 13,5 | 30 | 11,8 | SWG-DIP-7-PP-BK                   | 10                                     |
| 8               | 8   | 88,9 ... 102<br>3.50 ... 4.00     | 147                | 120  | 13,5 | 30 | 11,8 | SWG-DIP-8-PP-BK                   | 10                                     |
| 1D              | 1   | 6 ... 12<br>.24 ... .48           | 37                 | 18,5 | -    | 30 | 11,8 | SWG-DIP-1D-PP-BK                  | 25                                     |

### Ordering Codes

#### Distance Plate

**\*SWG-DIP\*2\*PP-BK**

\* Distance Plate

SWG-DIP

\* STAUFF Group

2

\* Material code Polypropylene (Colour: Black) **PP-BK**

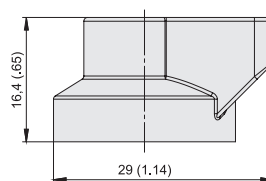
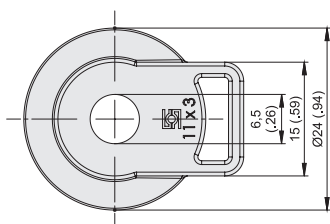
Alternative materials are available upon request. Please contact STAUFF for further information.

\* ±0,1(.003)

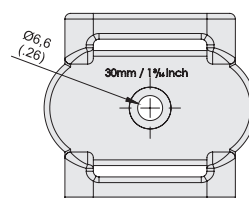
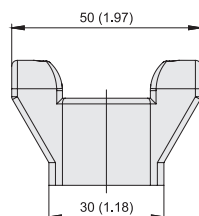
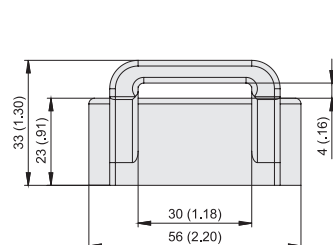
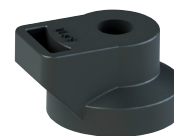
Material: Polyamide (reinforced)

Suitable for hexagon socket button cap screws M6x12 (ISO 7380-1)

Standard packaging unit: 25 pcs.



### Cable Tie Holder Type SWG-CTH-11-M6



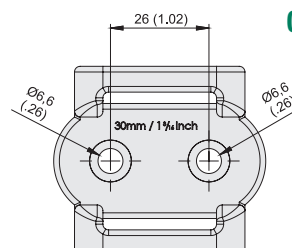
### Cable Tie / Tension Belt Holder Type SWG-CTH-30-M6-1



Material: Polyamide (reinforced)

Suitable for socket cap screws M6x12 (ISO 4762)  
or hexagon socket button cap screws M6x12 (ISO 7380-1)

Standard packaging unit: 25 pcs.



### Cable Tie / Tension Belt Holder Type SWG-CTH-30-M6-2



Dimensional drawings: All dimensions in mm (in).



## Starterkit Type SWG-WI06-Starterkit



### Starterkit including:

- 1 Weld Inverter **SWG-WI06**
- 1 Weld Gun **SWG-WG**
- 1 Ground Cable **SWG-GC**
- 1 Distance Tube **DIT-SR6-SWG-WG30**  
(for STAUFF Groups 2 to 8)
- 5 Stud Retainer **SWG-SR6**
- 1 Toolkit (Box Spanner/Hex Wrench)
- Operating Manual (English / German)

### Required Accessories:

- Distance Adaptor **SWG-AGS-...** for DIN 3015 Clamps
- Weld Stud **SWG-SF**
- Distance Tube **DIT-SR6-SWG-WG25**  
(for STAUFF Group 1A, if required)

## Weld Inverter Type SWG-WI06



### Characteristics

- Works without high-voltage current
- No heavy extension cords required
- Extremely powerful and robust
- Compact in design
- Lightweight with only 18 kg / 40 lbs
- Welding current: 100 ... 650 A (stepless control)
- Welding time: 5 ... 200 ms (stepless control)
- Connection Cable: 3 m / 9.84 ft

### Required Accessories

- Weld Gun **SWG-WG** and Accessories
- Ground Cable **SWG-GC**

### Technical Data

#### Primary Power

- 100 V to 240 V, 1 phase, 50/60 Hz, 16 AT

#### Primary Plug

- 16 A 2-pin grounded safety plug (plug type F CEE 7/4)

#### IP Code

- IP 44 (also permits operation outdoors)

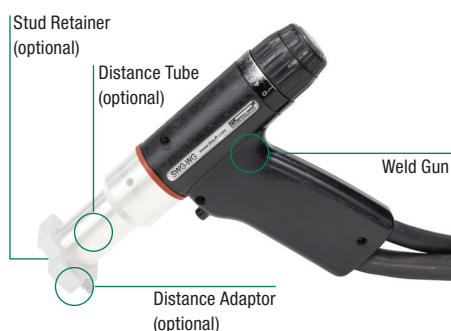
#### Ambient Temperature Limits

- $\pm 0^{\circ}\text{C}$  ...  $+40^{\circ}\text{C}$  /  $+32^{\circ}\text{F}$  ...  $+104^{\circ}\text{F}$

#### Dimensions (L x W x H)

- 474 x 337 x 351 mm / 18.66 x 13.27 x 13.82 in

## Weld Gun - Arc Ignition Type SWG-WG



### Characteristics

- Compact in design
- Lightweight with only 0,8 kg / 1.8 lbs (without cable)
- Ergonomic handle
- Comfortable setup
- Connection Cable: 5 m / 16.40 ft

### Required Accessories

- Distance Adaptor **SWG-AGS-...** for DIN 3015 Clamps
- Distance Tube **DIT-SR6-SWG-WG30** (for STAUFF Groups 2 to 8)
- Distance Tube **DIT-SR6-SWG-WG25** (for STAUFF Group 1A)
- Stud Retainer **SWG-SR6**

### Technical Data

#### Lift

- Adjustment range 3 mm / .11 in, lockable

#### Workplace noise level

- Up to 90 dB (A) may occur during welding

#### Dimensions (L x W x H)

- 200 x 65 x 140 mm / 7.87 x 2.56 x 5.51 in  
(without cable, without distance tube)



**Distance Adaptor  
Type SWG-AGS**

| Group<br>STAUFF | DIN | for use with                | Ordering Codes               |
|-----------------|-----|-----------------------------|------------------------------|
| 1               | 0   | Distance Tube <b>Type A</b> | NO DISTANCE ADAPTOR REQUIRED |
| 1A              | 1   | Distance Tube <b>Type A</b> | SWG-AGS-1A                   |
| 2               | 2   | Distance Tube <b>Type B</b> | SWG-AGS-2                    |
| 3               | 3   | Distance Tube <b>Type B</b> | SWG-AGS-3                    |
| 4               | 4   | Distance Tube <b>Type B</b> | SWG-AGS-4                    |
| 5               | 5   | Distance Tube <b>Type B</b> | SWG-AGS-5                    |
| 6               | 6   | Distance Tube <b>Type B</b> | SWG-AGS-6                    |
| 7               | 7   | Distance Tube <b>Type B</b> | SWG-AGS-7                    |
| 8               | 8   | Distance Tube <b>Type B</b> | SWG-AGS-8                    |
| 1D              | 1D  | Distance Tube <b>Type A</b> | NO DISTANCE ADAPTOR REQUIRED |


**Distance Tube  
Type DIT-SR6-SWG**

| Type | for use with                          | Ordering Codes   |
|------|---------------------------------------|------------------|
| A    | Distance Adaptor <b>SWG-AGS-1A</b>    | DIT-SR6-SWG-WG25 |
| B    | Distance Adaptor <b>SWG-AGS-2...8</b> | DIT-SR6-SWG-WG30 |


**F**
**Stud Retainer  
Type SWG-SR6**
**Order Code**

**1**
**① Type**

Stud Retainer

**SWG-SR6**

Standard packaging unit: 5 pcs.


**Order Code**

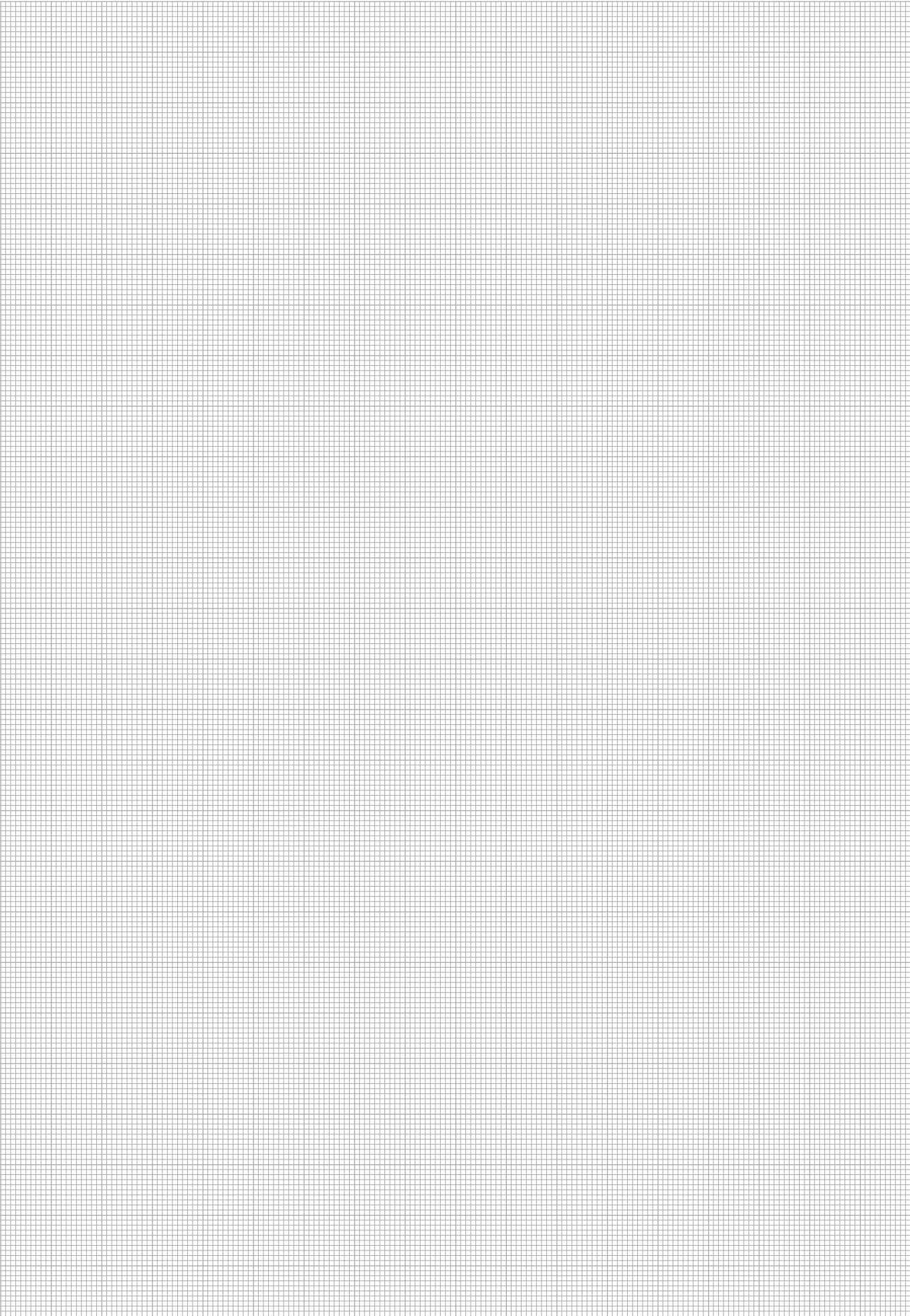
**1**
**① Type**

Ground Cable

**SWG-GC**
**Characteristics**

- Cable length: 5 m / 16.40 ft
- Equipped with 2 vice grips 10"

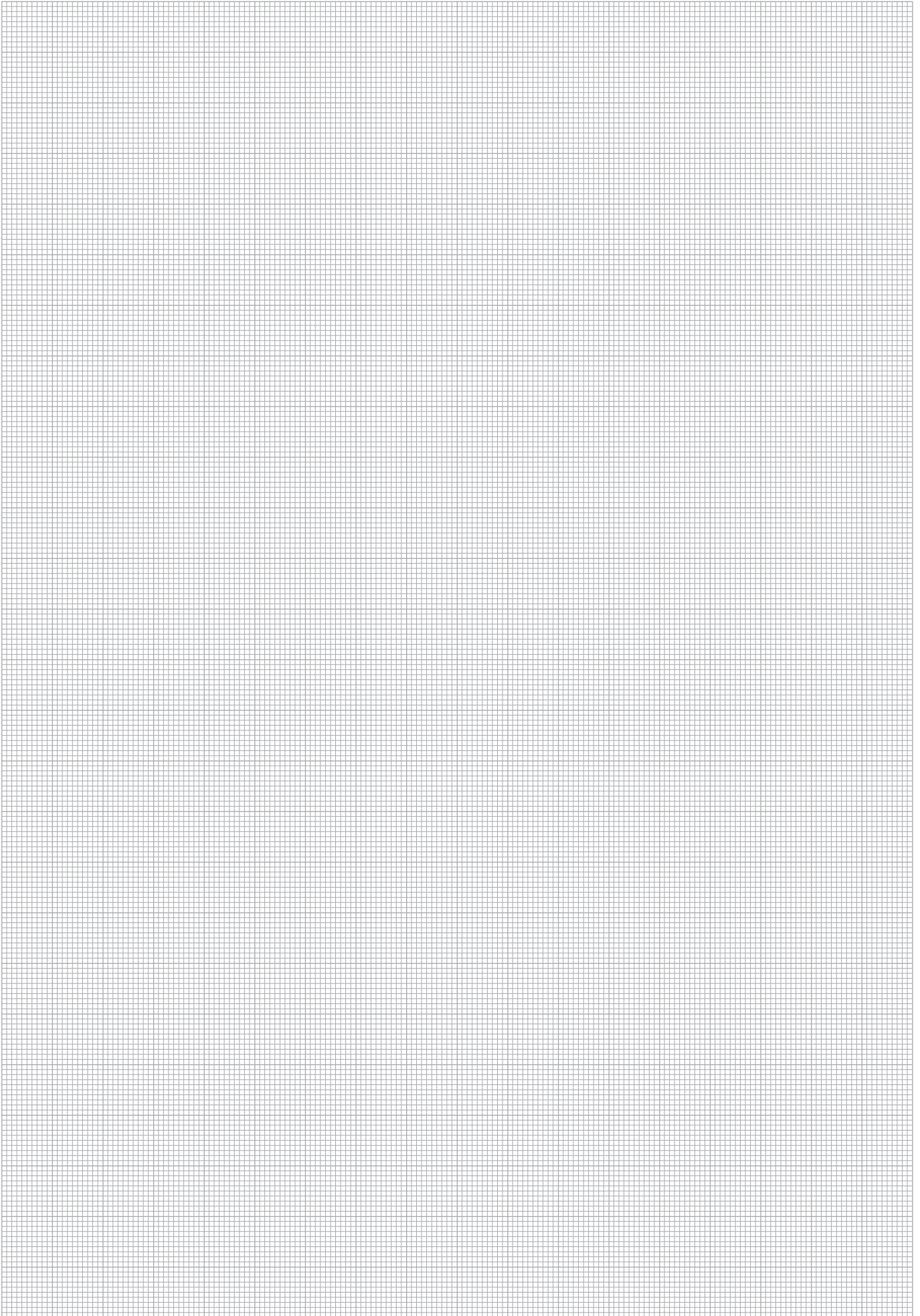
**Ground Cable  
Type SWG-GC**

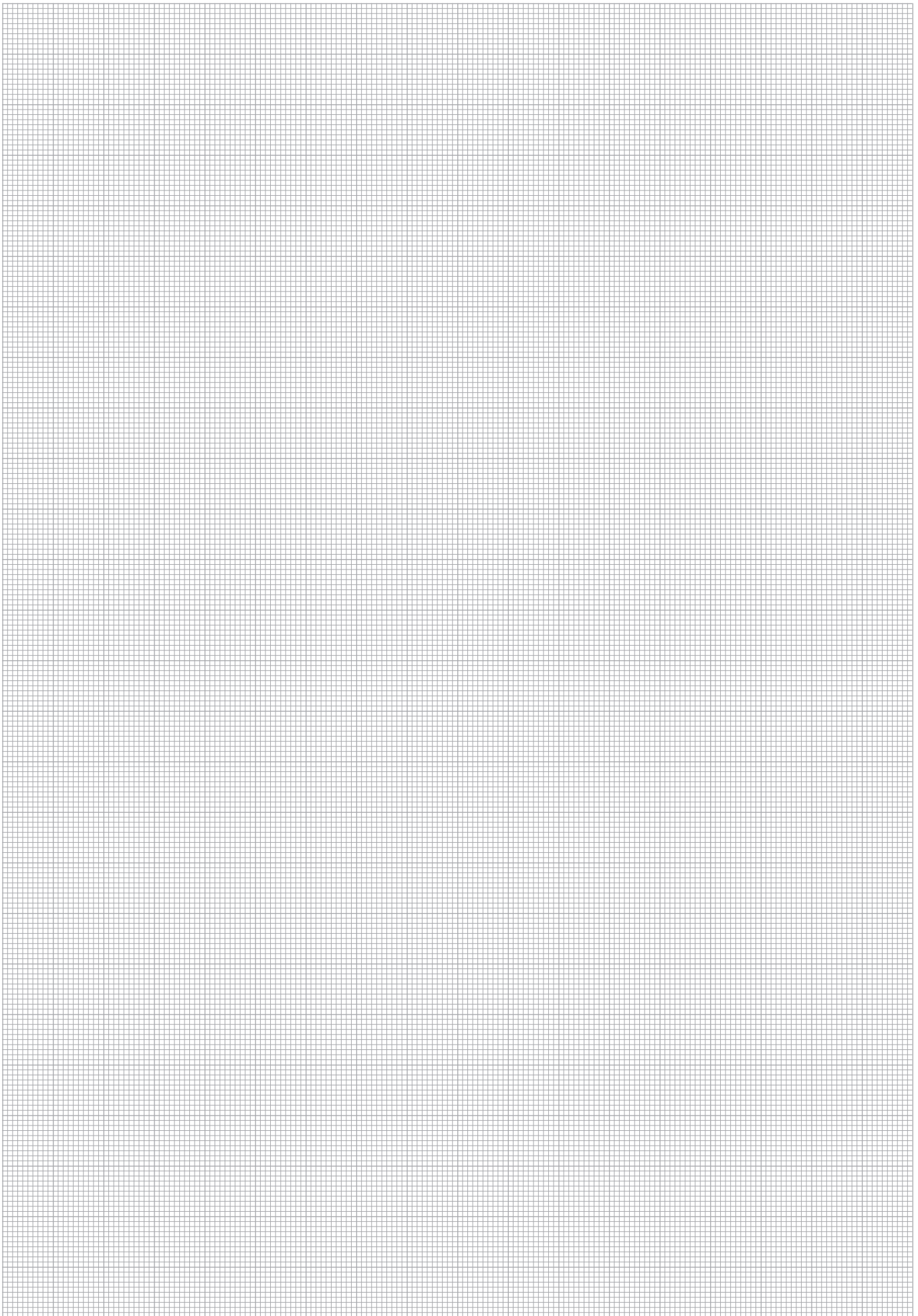







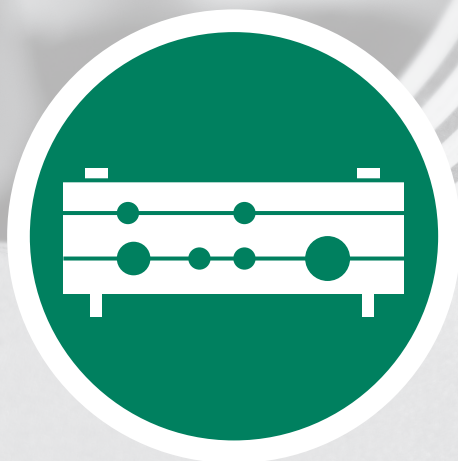














**Machined Versions**

**104**



**Injection Moulded Version**

**106**



**Metal Versions and Accessories**

**107**

**Enquiry Form for Custom-Designed Special Clamps**

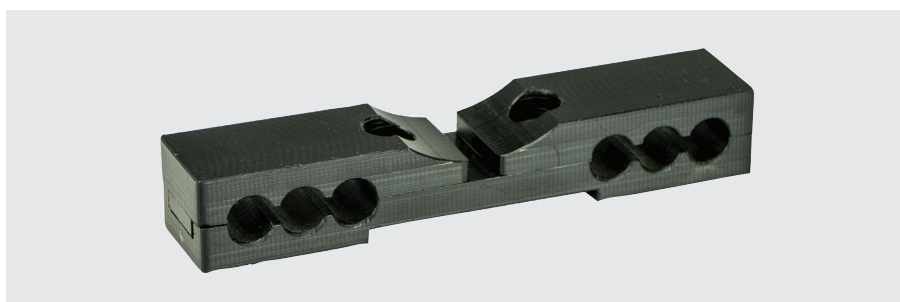
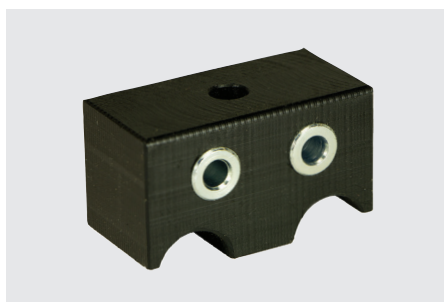
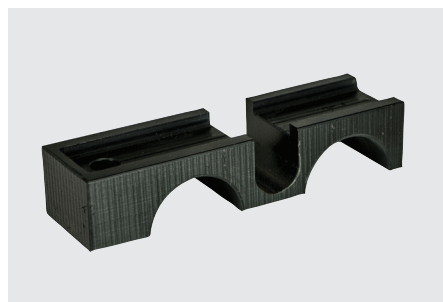
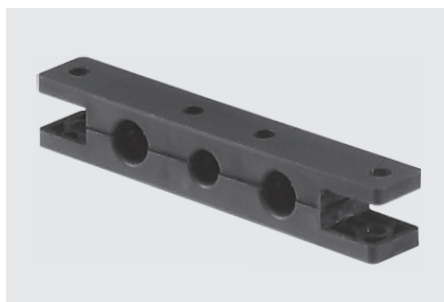
**108**





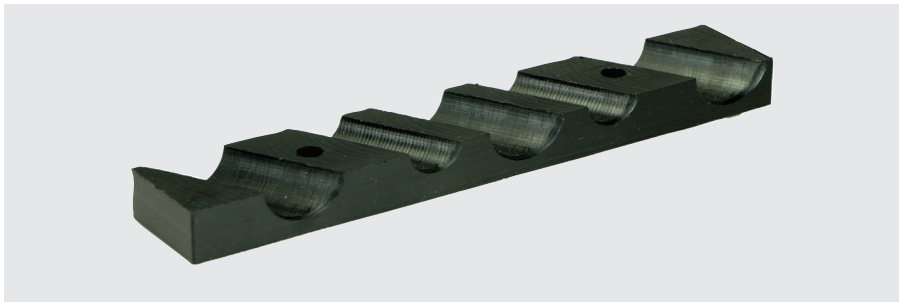
## Machined Versions

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications or based on STAUFF developments, made of thermoplastics, metals and non-ferrous metals.

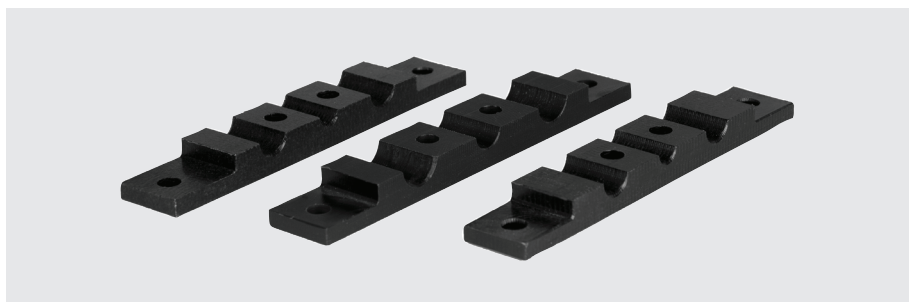


H





H



## Injection Moulded Versions (Flexi Clamps)

Custom-designed clamping systems for pipes, tubes, hoses, cables and other components according to customer's specifications or based on STAUFF developments, made of Polypropylene, Polyamide and other thermoplastics.

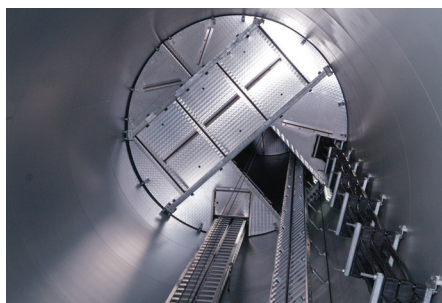


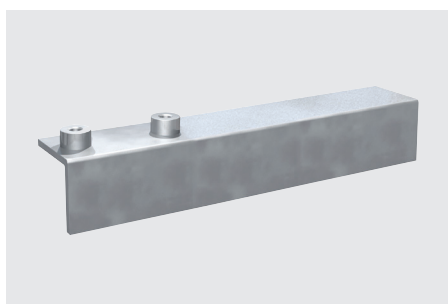
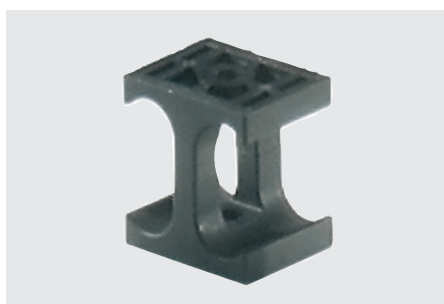
Photo Source: mm-fotowerbung.de



Photo Source: mm-fotowerbung.de







### Metal Versions and Accessories

Metal versions of custom-designed clamping systems for pipes, tubes, hoses, cables and other components as well as accessories such as weld plates, cover plates, bolts as well as elastomer inserts.



## Enquiry Form for Custom-Designed Special Clamps

Please use the following form as a guideline when preparing an enquiry for a custom-designed special clamp. Scan or copy the page from the catalogue, print and complete it with

as much information as possible, before sending it by email or fax to the closest STAUFF branch office. If possible, please also provide a sketch / drawing and let us know the quanti-

ties required, and if the enquiry is for a one-time or recurring demand. We look forward to hearing from you, and are always available for consultation, when required.

### Application Information

|                                               |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>                            | <input type="checkbox"/> Indoor                                                                                                                                                    | <input type="checkbox"/> Outdoor                                                                                                                                                                                                                                                                                                                        |
| <b>Ambient temperature</b>                    | Lowest _____ <input type="checkbox"/> °C / <input type="checkbox"/> °F                                                                                                             | Highest _____ <input type="checkbox"/> °C / <input type="checkbox"/> °F                                                                                                                                                                                                                                                                                 |
| <b>Resistance against particular media</b>    | <input type="checkbox"/> No                                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> Mineral oils<br><input type="checkbox"/> Other oils _____<br><input type="checkbox"/> Benzine<br><input type="checkbox"/> Weak acids<br><input type="checkbox"/> Solvents<br><input type="checkbox"/> Alcohols<br><input type="checkbox"/> Seawater<br><input type="checkbox"/> Other media _____ |
| <b>Fire protection requirements</b>           | <input type="checkbox"/> No                                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> UL94<br><input type="checkbox"/> BS 6853<br><input type="checkbox"/> Other standard _____                                                                                                                                                                                                         |
| <b>Material preference for the clamp body</b> | <input type="checkbox"/> Polypropylene<br><input type="checkbox"/> Aluminium<br><input type="checkbox"/> Stainless Steel <input type="checkbox"/> V2A <input type="checkbox"/> V4A | <input type="checkbox"/> Polyamide<br><input type="checkbox"/> Steel<br><input type="checkbox"/> Other material _____                                                                                                                                                                                                                                   |

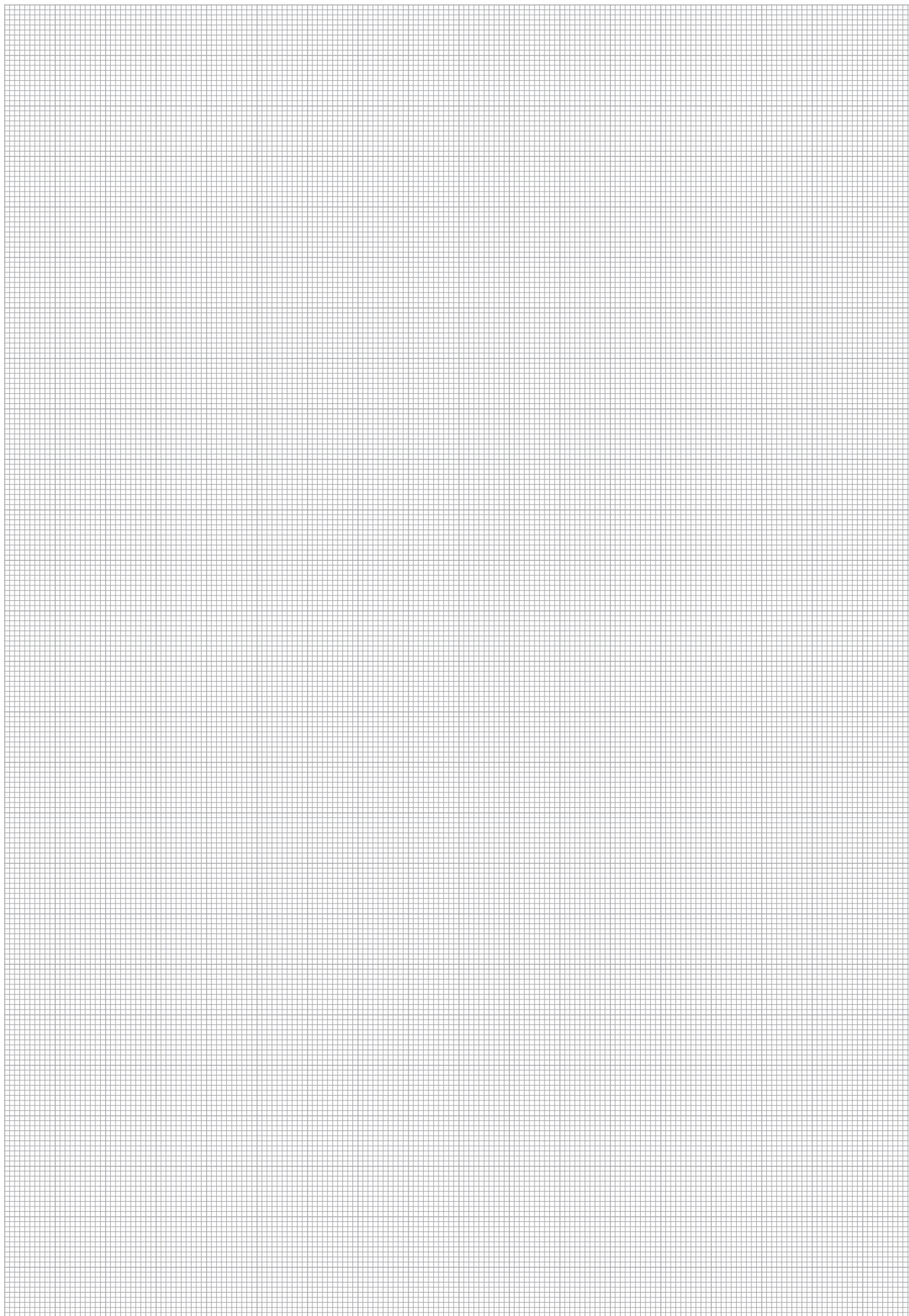
### Design Information

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type of line</b>                           | <input type="checkbox"/> Pipe / tube ( <u>fixed</u> installation)<br><input type="checkbox"/> Hose<br><input type="checkbox"/> Cable<br><input type="checkbox"/> Other components _____                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Pipe / tube ( <u>sliding</u> installation)<br><input type="checkbox"/> Conduit Hose<br><input type="checkbox"/> Mix of different types of lines                                     |
| <b>Maximum dimensions of clamp body</b>       | Length _____ x Width _____ x Height _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                              |
| <b>Total number of lines</b>                  | _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                              |
| <b>Diameters per line</b>                     | Line 1 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 2 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 3 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 4 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 5 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 6 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 7 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch<br>Line 8 _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch | Further comments _____<br>Further comments _____<br>Further comments _____<br>Further comments _____<br>Further comments _____<br>Further comments _____<br>Further comments _____<br>Further comments _____ |
| <b>Preferred centre distance of the lines</b> | _____ <input type="checkbox"/> mm / <input type="checkbox"/> inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                              |
| <b>Preferred number of screw holes</b>        | _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                              |

### Information on Mounting Hardware

|                                             |                                                                                                                                                                                               |                                                                                                                                              |                                                                                                                                     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Preferred type of bolts</b>              | <input type="checkbox"/> Hexagon head bolts (with cover plate)<br><input type="checkbox"/> Socket cap crews (with cover plate)<br><input type="checkbox"/> Socket cap crews (w/o cover plate) | <input type="checkbox"/> with metric threads<br><input type="checkbox"/> with metric threads<br><input type="checkbox"/> with metric threads | <input type="checkbox"/> with UNC threads<br><input type="checkbox"/> with UNC threads<br><input type="checkbox"/> with UNC threads |
| <b>Preferred type of installation</b>       | <input type="checkbox"/> Welding (using a weld plate)<br><input type="checkbox"/> Direct screw-fastening<br><input type="checkbox"/> Mounting rail (using a rail nut / adaptor)               | <input type="checkbox"/> Welding (using weld studs)<br><input type="checkbox"/> Adhesive bonded fastening                                    |                                                                                                                                     |
| <b>Material preference for the hardware</b> | <input type="checkbox"/> Steel                                                                                                                                                                | <input type="checkbox"/> Stainless Steel <input type="checkbox"/> V2A <input type="checkbox"/> V4A                                           |                                                                                                                                     |










**Clamp Body - Single Design**

LBBU

112


**Clamp Body - Twin Design**

LBBU

113


**Weld Plate**

LBBU-SP

114


**Sleeve**

LBBU-HUE

114


**Cover Plate**

LBBU-DP

115


**Hexagon Head Bolt**

AS

115


**Clamp Body - Single Design**

LB

116


**Clamp Body - Twin Design**

LBG / LBU

117


**Clamp Body - Single Design**

LN

118


**Clamp Body - Twin Design**

LNGF / LNUF

119


**Cover Plate**

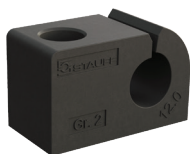
DPL

119

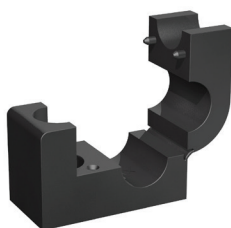


## Clamp Body ■ Single Design

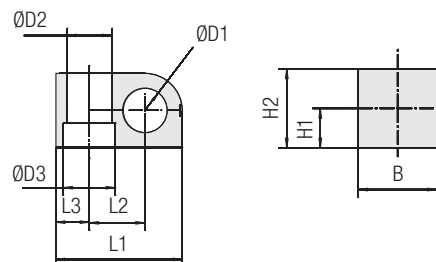
### Type LBBU



Size 2 in slotted design



Size 1 and 3 with film hinge



### Ordering Codes

**Clamp Body** \*LBBU-\*1\*06-\*SA-\*M8/U5/16

- \* Light Series LBBU **LBBU**
- \* STAUFF Group **1**
- \* Exact outside diameter Ø D1 (mm) **06**
- \* Material code (see below) **SA**
- \* Thread code (suitable for bolts M8 and U5/16) **M8/U5/16**

### Standard Materials



**Thermoplastic Elastomer** (87 Shore-A)  
 Colour: Black  
 Material code: **SA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
 Please contact STAUFF for further information.

### Product Features

- Compact and light-weight design for applications in which space is limited
- Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly

| Group  | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D1<br>(mm) (in) | Nominal<br>Bore<br>Pipe<br>(in) | Ordering Codes<br>(1 Clamp Body) | Dimensions<br>(mm/in) |      |      |      |     |     |      |      |
|--------|-------------------------------------------------------------|---------------------------------|----------------------------------|-----------------------|------|------|------|-----|-----|------|------|
| STAUFF |                                                             |                                 |                                  | Ø D2                  | Ø D3 | L1   | L2   | L3  | H1  | H2   | B    |
| 1      | 6                                                           |                                 | LBBU-106-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 6,4                                                         | 1/4                             | LBBU-106.4-SA-M8/U5/16           |                       |      |      |      |     |     |      |      |
|        | 8                                                           | 5/16                            | LBBU-108-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 9,5                                                         | 3/8                             | LBBU-109.5-SA-M8/U5/16           | 12                    | 14   | 34   | 15   | 9   | 10  | 20   | 20   |
|        | 10                                                          | 1/8                             | LBBU-110-SA-M8/U5/16             | .47                   | .55  | 1.34 | .59  | .35 | .39 | .79  | .79  |
|        | 11                                                          |                                 | LBBU-111-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 12                                                          |                                 | LBBU-112-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 12,7                                                        | 1/2                             | LBBU-112.7-SA-M8/U5/16           |                       |      |      |      |     |     |      |      |
|        | 10                                                          | 1/8                             | LBBU-210-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 11                                                          |                                 | LBBU-211-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
| 2      | 12                                                          |                                 | LBBU-212-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 12,7                                                        | 1/2                             | LBBU-212.7-SA-M8/U5/16           |                       |      |      |      |     |     |      |      |
|        | 13,5                                                        | 1/4                             | LBBU-213.5-SA-M8/U5/16           |                       |      |      |      |     |     |      |      |
|        | 14                                                          |                                 | LBBU-214-SA-M8/U5/16             | 20                    | 14   | 39   | 18   | 9   | 12  | 24   | 20   |
|        | 15                                                          |                                 | LBBU-215-SA-M8/U5/16             | .47                   | .55  | 1.54 | .71  | .35 | .47 | .94  | .79  |
|        | 16                                                          | 5/8                             | LBBU-216-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 17,2                                                        | 3/8                             | LBBU-217.2-SA-M8/U5/16           |                       |      |      |      |     |     |      |      |
|        | 18                                                          |                                 | LBBU-218-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 19                                                          | 3/4                             | LBBU-219-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 20                                                          |                                 | LBBU-220-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
| 3      | 21,3                                                        |                                 | LBBU-321.3-SA-M8/U5/16           |                       |      |      |      |     |     |      |      |
|        | 22                                                          | 7/8                             | LBBU-322-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 23                                                          |                                 | LBBU-323-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 25                                                          |                                 | LBBU-325-SA-M8/U5/16             | 12                    | 14   | 57,5 | 23,5 | 15  | 20  | 40   | 30   |
|        | 25,4                                                        | 1                               | LBBU-325.4-SA-M8/U5/16           | .47                   | .55  | 2.26 | .93  | .59 | .79 | 1.57 | 1.18 |
|        | 28                                                          |                                 | LBBU-328-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 30                                                          |                                 | LBBU-330-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |
|        | 32                                                          | 1-1/4                           | LBBU-332-SA-M8/U5/16             |                       |      |      |      |     |     |      |      |

Additional outside diameters are available upon request. Please contact STAUFF for further information.



#### Type of Mounting SP (with Weld Plate LBBU-SP)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU
- 1 Weld Plate LBBU-SP

#### Order Code

**LBBU-SP-322-SA-DP-AS-M8-W10**

**W10** (Weld Plate made of Carbon Steel, phosphated;  
 Other metal parts made of Carbon Steel, zinc/nickel-plated)  
 is the standard option for this type of installation.  
 For UNC threads / bolts, please replace M8 by U5/16.



#### Type of Mounting SM (with Hexagon Rail Nut SM-2-5D)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU
- 1 Hexagon Rail Nut SM-2-5D  
 (for use with Mounting Rail TS,  
 see page 24 for details)

**Order Code** (Mounting Rail TS not included.)  
**LBBU-SM-322-SA-DP-AS-M8-W3**

**W3** (Metal parts made of Carbon Steel, zinc/nickel-plated)  
 is the standard option for this type of installation.  
 For UNC threads / bolts, please replace M8 by U5/16.



#### Type of Mounting PM (for panel mounting without Weld Plate or Hexagon Rail Nut)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU

#### Order Code

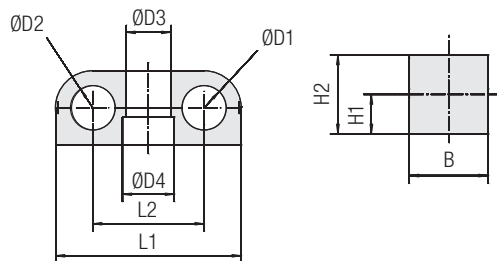
**LBBU-PM-322-SA-DP-AS-M8-W3**

**W3** (Metal parts made of Carbon Steel, zinc/nickel-plated)  
 is the standard option for this type of installation.  
 For UNC threads / bolts, please replace M8 by U5/16.

Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.



## Clamp Body ▪ Twin Design Type LBBU



Size 1 and 3 with film hinge



Size 2 in slotted design

| Group  | Outside Diameters<br>Pipe / Tube / Hose<br>Ø D1 / Ø D2<br>(mm) (in) | Nominal<br>Bore<br>Pipe<br>(in) | Ordering Codes<br>(1 Clamp Body) | Dimensions<br>(mm/in) |      |      |      |     |      |     |
|--------|---------------------------------------------------------------------|---------------------------------|----------------------------------|-----------------------|------|------|------|-----|------|-----|
| STAUFF |                                                                     |                                 |                                  | Ø D3                  | Ø D4 | L1   | L2   | H1  | H2   | B   |
| 1D     | 4                                                                   |                                 | LBBU-104/04-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 6                                                                   |                                 | LBBU-106/06-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 6,4                                                                 | 1/4                             | LBBU-106.4/06.4-SA-M8/U5/16      |                       |      |      |      |     |      |     |
|        | 8                                                                   | 5/16                            | LBBU-108/08-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 9,5                                                                 | 3/8                             | LBBU-109.5/09.5-SA-M8/U5/16      | 12                    | 14   | 50   | 30   | 10  | 20   | 20  |
|        | 10                                                                  |                                 | LBBU-110/10-SA-M8/U5/16          | .47                   | .55  | 1.97 | 1.18 | .39 | .79  | .79 |
|        | 11                                                                  | 1/8                             | LBBU-111/11-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 12                                                                  |                                 | LBBU-112/12-SA-M8/U5/16          |                       |      |      |      |     |      |     |
| 2D     | 12,7                                                                | 1/2                             | LBBU-112.7/12.7-SA-M8/U5/16      |                       |      |      |      |     |      |     |
|        | 10                                                                  |                                 | LBBU-210/10-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 11                                                                  | 1/8                             | LBBU-211/11-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 12                                                                  |                                 | LBBU-212/12-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 12,7                                                                | 1/2                             | LBBU-212.7/12.7-SA-M8/U5/16      |                       |      |      |      |     |      |     |
|        | 13,5                                                                | 1/4                             | LBBU-213.5/13.5-SA-M8/U5/16      |                       |      |      |      |     |      |     |
|        | 14                                                                  |                                 | LBBU-214/14-SA-M8/U5/16          | 12                    | 14   | 59   | 35   | 12  | 24   | 20  |
|        | 15                                                                  |                                 | LBBU-215/15-SA-M8/U5/16          | .47                   | .55  | 2.32 | 1.38 | .47 | .94  | .79 |
|        | 16                                                                  | 5/8                             | LBBU-216/16-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 17,2                                                                | 3/8                             | LBBU-217.2/17.2-SA-M8/U5/16      |                       |      |      |      |     |      |     |
|        | 18                                                                  |                                 | LBBU-218/18-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 19                                                                  | 3/4                             | LBBU-219/19-SA-M8/U5/16          |                       |      |      |      |     |      |     |
| 3D     | 20                                                                  |                                 | LBBU-220/20-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 21,3                                                                |                                 | LBBU-321.321.3-SA-M8/U5/16       |                       |      |      |      |     |      |     |
|        | 22                                                                  | 7/8                             | LBBU-322/22-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 23                                                                  |                                 | LBBU-323/23-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 25                                                                  |                                 | LBBU-325/25-SA-M8/U5/16          | 12                    | 14   | 86   | 47   | 20  | 40   | 30  |
|        | 25,4                                                                | 1                               | LBBU-325.4/25.4-SA-M8/U5/16      | .47                   | .55  | 3.39 | 1.85 | .79 | 1.57 | .79 |
|        | 28                                                                  |                                 | LBBU-328/28-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 30                                                                  |                                 | LBBU-330/30-SA-M8/U5/16          |                       |      |      |      |     |      |     |
|        | 32                                                                  | 1-1/4                           | LBBU-332/32-SA-M8/U5/16          |                       |      |      |      |     |      |     |

### Ordering Codes

**Clamp Body** \*LBBU-\*1\*06/06-\*SA-\*M8/U5/16

- \* Light Series LBBU **LBBU**
- \* 1st Part of STAUFF Group **1**
- \* Exact outside diameters Ø D1 / Ø D2 (mm) **06/06**
- \* Material code (see below) **SA**
- \* Thread code (suitable for bolts M8 and U5/16) **M8/U5/16**

### Standard Materials



**Thermoplastic Elastomer** (87 Shore-A)

Colour: Black

Material code: **SA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Product Features

- Compact and light-weight design for applications in which space is limited
- Available in 3 different sizes and covering all standard metric and imperial diameters between 4 mm and 32 mm
- Vibration-damping and noise-reducing clamp body material with UV, ozone and weathering-resistant characteristics
- Embedded metal sleeve to ensure stability of the clamp assembly

Additional outside diameters and combinations of different outside diameters are available upon request.  
Please contact STAUFF for further information.



#### Type of Mounting SP (with Weld Plate LBBU-SP)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU
- 1 Weld Plate LBBU-SP

#### Order Code

**LBBU-SP-322/22-SA-DP-AS-M8-W10**

**W10** (Weld Plate made of Carbon Steel, phosphated;  
Other metal parts made of Carbon Steel, zinc/nickel-plated)  
is the standard option for this type of installation.  
For UNC threads / bolts, please replace M8 by U5/16.



#### Type of Mounting SM (with Hexagon Rail Nut SM-2-5D)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU
- 1 Hexagon Rail Nut SM-2-5D  
(for use with Mounting Rail TS,  
see page 24 for details)

#### Order Code (Mounting Rail TS not included.)

**LBBU-SM-322/22-SA-DP-AS-M8-W3**

**W3** (Metal parts made of Carbon Steel, zinc/nickel-plated)  
is the standard option for this type of installation.  
For UNC threads / bolts, please replace M8 by U5/16.



#### Type of Mounting PM (for panel mounting without Weld Plate or Hexagon Rail Nut)

Clamp assembly consisting of:

- 1 Hexagon Head Bolt AS
- 1 Cover Plate LBBU-DP
- 1 Sleeve LBBU-HUE
- 1 Clamp Body LBBU

#### Order Code

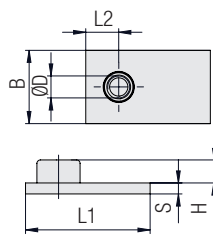
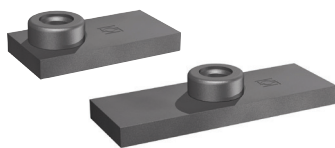
**LBBU-PM-322/22-SA-DP-AS-M8-W3**

**W3** (Metal parts made of Carbon Steel, zinc/nickel-plated)  
is the standard option for this type of installation.  
For UNC threads / bolts, please replace M8 by U5/16.

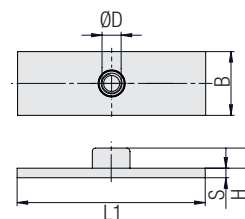
Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.



## Weld Plate Type LBBU-SP



STAUFF Group 1 to 3



STAUFF Group 1D to 3D

### Ordering Codes

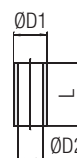
#### Weld Plate \*LBBU-SP-\*1D-\*M8-\*W2

|                     |                          |              |
|---------------------|--------------------------|--------------|
| * Light Series LBBU |                          | <b>LBBU</b>  |
| * Weld Plate        |                          | <b>-SP</b>   |
| * STAUFF Group      |                          | <b>1D</b>    |
| * Thread code       | Metric ISO thread: M8    | <b>M8</b>    |
|                     | UNC thread: 5/16-18 UNC  | <b>U5/16</b> |
| * Material code     | Carbon Steel, phosphated | <b>W2</b>    |

| Group STAUFF | Dimensions (mm/in) |      |     |      |      |     | Thread G    | Ordering Codes (Standard Options) |
|--------------|--------------------|------|-----|------|------|-----|-------------|-----------------------------------|
| 1            | 14                 | 34   | 9   | 10,3 | 20   | 5   | M8          | LBBU-SP-1-M8-W2                   |
|              | .55                | 1.34 | .35 | .41  | .79  | .20 | 5/16-18 UNC | LBBU-SP-1-U5/16-W2                |
| 2            | 14                 | 39   | 9   | 10,3 | 20   | 5   | M8          | LBBU-SP-2-M8-W2                   |
|              | .55                | 1.54 | .35 | .41  | .79  | .20 | 5/16-18 UNC | LBBU-SP-2-U5/16-W2                |
| 3            | 14                 | 57,5 | 15  | 10,3 | 30   | 5   | M8          | LBBU-SP-3-M8-W2                   |
|              | .55                | 2.26 | .59 | .41  | 1.18 | .20 | 5/16-18 UNC | LBBU-SP-3-U5/16-W2                |
| 1D           | 14                 | 50   | X   | 10,3 | 20   | 5   | M8          | LBBU-SP-1D-M8-W2                  |
|              | .55                | 1.97 |     | .41  | .79  | .20 | 5/16-18 UNC | LBBU-SP-1D-U5/16-W2               |
| 2D           | 14                 | 59   |     | 10,3 | 20   | 5   | M8          | LBBU-SP-2D-M8-W2                  |
|              | .55                | 2.32 |     | .41  | .79  | .20 | 5/16-18 UNC | LBBU-SP-2D-U5/16-W2               |
| 3D           | 14                 | 86   |     | 10,3 | 30   | 5   | M8          | LBBU-SP-3D-M8-W2                  |
|              | .55                | 3.39 |     | .41  | 1.18 | .20 | 5/16-18 UNC | LBBU-SP-3D-U5/16-W2               |

All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table. Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.

## Sleeve Type LBBU-HUE



Dimensions applicable only when used with  
Weld Plate LBBU-SP (**Type of Mounting SP**)

| Group STAUFF | Dimensions (mm/in) |     |      | Ordering Codes (Standard Options) |
|--------------|--------------------|-----|------|-----------------------------------|
| 1            | 12                 | 9   | 13,5 | LBBU-HUE-1/1D-SP-M8/U5/16-W3      |
|              | .47                | .35 | .53  |                                   |
| 2            | 12                 | 9   | 17,5 | LBBU-HUE-2/2D-SP-M8/U5/16-W3      |
|              | .47                | .35 | .69  |                                   |
| 3            | 12                 | 9   | 33,5 | LBBU-HUE-3/3D-SP-M8/U5/16-W3      |
|              | .47                | .35 | 1.32 |                                   |
| 1D           | 12                 | 9   | 13,5 | LBBU-HUE-1/1D-SP-M8/U5/16-W3      |
|              | .47                | .35 | .53  |                                   |
| 2D           | 12                 | 9   | 17,5 | LBBU-HUE-2/2D-SP-M8/U5/16-W3      |
|              | .47                | .35 | .69  |                                   |
| 3D           | 12                 | 9   | 33,5 | LBBU-HUE-3/3D-SP-M8/U5/16-W3      |
|              | .47                | .35 | 1.32 |                                   |

Dimensions applicable only when used with  
Hexagon Rail Nut SM-2-5D (**Type of Mounting SM**)

| Group STAUFF | Dimensions (mm/in) |     |      | Ordering Codes (Standard Options) |
|--------------|--------------------|-----|------|-----------------------------------|
| 1            | 12                 | 9   | 12,8 | LBBU-HUE-1/1D-SM-M8/U5/16-W3      |
|              | .47                | .35 | .50  |                                   |
| 2            | 12                 | 9   | 16,8 | LBBU-HUE-2/2D-SM-M8/U5/16-W3      |
|              | .47                | .35 | .66  |                                   |
| 3            | 12                 | 9   | 32,8 | LBBU-HUE-3/3D-SM-M8/U5/16-W3      |
|              | .47                | .35 | 1.29 |                                   |
| 1D           | 12                 | 9   | 12,8 | LBBU-HUE-1/1D-SM-M8/U5/16-W3      |
|              | .47                | .35 | .50  |                                   |
| 2D           | 12                 | 9   | 16,8 | LBBU-HUE-2/2D-SM-M8/U5/16-W3      |
|              | .47                | .35 | .66  |                                   |
| 3D           | 12                 | 9   | 32,8 | LBBU-HUE-3/3D-SM-M8/U5/16-W3      |
|              | .47                | .35 | 1.29 |                                   |

Dimensions applicable only when used for panel mounting  
without Weld Plate or Hexagon Rail Nut (**Type of Mounting PM**)

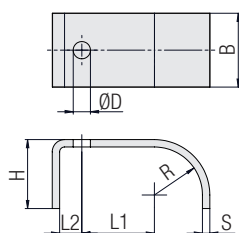
| Group STAUFF | Dimensions (mm/in) |     |      | Ordering Codes (Standard Options) |
|--------------|--------------------|-----|------|-----------------------------------|
| 1            | 12                 | 9   | 18,8 | LBBU-HUE-1/1D-PM-M8/U5/16-W3      |
|              | .47                | .35 | .74  |                                   |
| 2            | 12                 | 9   | 22,7 | LBBU-HUE-2/2D-PM-M8/U5/16-W3      |
|              | .47                | .35 | .89  |                                   |
| 3            | 12                 | 9   | 38,8 | LBBU-HUE-3/3D-PM-M8/U5/16-W3      |
|              | .47                | .35 | 1.53 |                                   |
| 1D           | 12                 | 9   | 18,8 | LBBU-HUE-1/1D-PM-M8/U5/16-W3      |
|              | .47                | .35 | .74  |                                   |
| 2D           | 12                 | 9   | 22,7 | LBBU-HUE-2/2D-PM-M8/U5/16-W3      |
|              | .47                | .35 | .89  |                                   |
| 3D           | 12                 | 9   | 38,8 | LBBU-HUE-3/3D-PM-M8/U5/16-W3      |
|              | .47                | .35 | 1.53 |                                   |

Alternative sizes (e.g. for bolts M6 and 1/4-20 UNC), materials and surface finishings are available upon request.

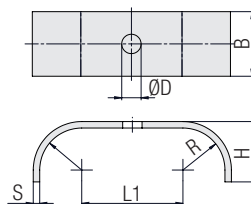




## Cover Plate Type LBBU-DP



STAUFF Group 1 to 3



STAUFF Group 1D to 3D



| Group STAUFF | Dimensions (mm/in) |      |     |      |      |      |     | Ordering Codes (Standard Options) |
|--------------|--------------------|------|-----|------|------|------|-----|-----------------------------------|
|              | Ø D                | L1   | L2  | R    | H    | B    | S   |                                   |
| 1            | 9                  | 15   | 9   | 10   | 16   | 20   | 3   | LBBU-DP-1-M8/U5/16-W3             |
|              | .35                | .59  | .35 | .39  | .63  | .79  | .12 |                                   |
| 2            | 9                  | 18   | 9   | 12   | 20   | 20   | 3   | LBBU-DP-2-M8/U5/16-W3             |
|              | .35                | .71  | .35 | .47  | .79  | .79  | .12 |                                   |
| 3            | 9                  | 23,5 | 15  | 19,5 | 28   | 30   | 3   | LBBU-DP-3-M8/U5/16-W3             |
|              | .35                | .93  | .59 | .77  | 1.10 | 1.18 | .12 |                                   |
| 1D           | 9                  | 30   |     | 10   | 16   | 20   | 3   | LBBU-DP-1D-M8/U5/16-W3            |
|              | .35                | 1.18 |     | .39  | .63  | .79  | .12 |                                   |
| 2D           | 9                  | 35   |     | 12   | 20   | 20   | 3   | LBBU-DP-2D-M8/U5/16-W3            |
|              | .35                | 1.38 |     | .47  | .79  | .79  | .12 |                                   |
| 3D           | 9                  | 47   |     | 19,5 | 28   | 20   | 3   | LBBU-DP-3D-M8/U5/16-W3            |
|              | .35                | 1.85 |     | .77  | .63  | .79  | .12 |                                   |

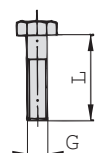
Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.

### Ordering Codes

**Cover Plate** \*LBBU-DP-\*1D-\*M8/U5/16-\*W3

|                                                  |          |
|--------------------------------------------------|----------|
| * Light Series LBBU                              | LBBU     |
| * Cover Plate                                    | -DP      |
| * STAUFF Group                                   | 1D       |
| * Thread code (suitable for bolts M8 and U5/16)  | M8/U5/16 |
| * Material code Carbon Steel, zinc/nickel-plated | W3       |

## Hexagon Head Bolt Type AS



Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used with  
Weld Plate LBBU-SP (Type of Mounting SP)  
or Hexagon Rail Nut SM-2-5D (Type of Mounting SM)

Hexagon Head Bolt AS

(according to DIN 931 / 933 or ANSI / ASME B18.2.1.)

Dimensions applicable only when used for panel mounting  
without Weld Plate or Hexagon Rail Nut  
(Type of Mounting PM)



| Group STAUFF | Dimensions (mm/in)  | Ordering Codes (Standard Options) |
|--------------|---------------------|-----------------------------------|
|              | Thread G x L        |                                   |
| 1            | M8 x 25             | AS-M8x25-W3                       |
|              | 5/16–18 UNC x 1     | AS-U5/16-18x1-W3                  |
| 2            | M8 x 28             | AS-M8x28-W3                       |
|              | 5/16–18 UNC x 1-1/8 | AS-U5/16-18x1-1/8-W3              |
| 3            | M8 x 45             | AS-M8x45-W3                       |
|              | 5/16–18 UNC x 1-3/4 | AS-U5/16-18x1-3/4-W3              |
| 1D           | M8 x 25             | AS-M8x25-W3                       |
|              | 5/16–18 UNC x 1     | AS-U5/16-18x1-W3                  |
| 2D           | M8 x 28             | AS-M8x28-W3                       |
|              | 5/16–18 UNC x 1-1/8 | AS-U5/16-18x1-1/8-W3              |
| 3D           | M8 x 45             | AS-M8x45-W3                       |
|              | 5/16–18 UNC x 1-3/4 | AS-U5/16-18x1-3/4-W3              |

| Group STAUFF | Dimensions (mm/in)  | Ordering Codes (Standard Options) |
|--------------|---------------------|-----------------------------------|
|              | Thread G x L        |                                   |
| 1            | M8 x 30             | AS-M8x30-W3                       |
|              | 5/16–18 UNC x 1-1/4 | AS-U5/16-18x1-1/4-W3              |
| 2            | M8 x 35             | AS-M8x35-W3                       |
|              | 5/16–18 UNC x 1-3/8 | AS-U5/16-18x1-3/8-W3              |
| 3            | M8 x 50             | AS-M8x50-W3                       |
|              | 5/16–18 UNC x 2     | AS-U5/16-18x2-W3                  |
| 1D           | M8 x 30             | AS-M8x30-W3                       |
|              | 5/16–18 UNC x 1-1/4 | AS-U5/16-18x1-1/4-W3              |
| 2D           | M8 x 35             | AS-M8x35-W3                       |
|              | 5/16–18 UNC x 1-3/8 | AS-U5/16-18x1-3/8-W3              |
| 3D           | M8 x 50             | AS-M8x50-W3                       |
|              | 5/16–18 UNC x 2     | AS-U5/16-18x2-W3                  |

### Ordering Codes

**Hexagon Head Bolt** \*AS-\*M8x25-\*W3

|                 |                                                                        |       |
|-----------------|------------------------------------------------------------------------|-------|
| * Type of bolt  | Hexagon Head Bolt (according to DIN 931 / 933 or ANSI / ASME B18.2.1.) | AS    |
| * Thread code   | Thread dimension according to dimension table                          | M8x25 |
| * Material code | Carbon Steel, zinc/nickel-plated                                       | W3    |

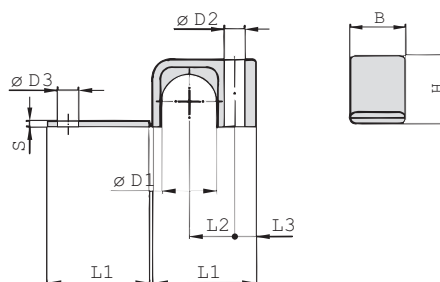
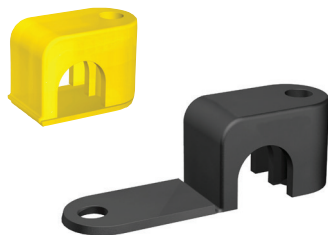
All threaded parts are available with Metric ISO thread or unified coarse (UNC) thread according to dimension table.

Alternative sizes (e.g. for bolts M6 and 1/4–20 UNC), materials and surface finishings are available upon request.



## Clamp Body ▪ Single Design

### Type LB



### Ordering Codes

#### Clamp Body

**\*LB-\*1\*03.2-\*PP**

- \* Light Series: Clamp Body / Single Design **LB**
- \* STAUFF Group **1**
- \* Exact outside diameter Ø D1 (mm) **03.2**
- \* Material code (see below) **PP**

### Standard Materials



**Polypropylene**  
Colour: Black  
Material code: **PP**



**Polyamide**  
Colour: Yellow  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Applications

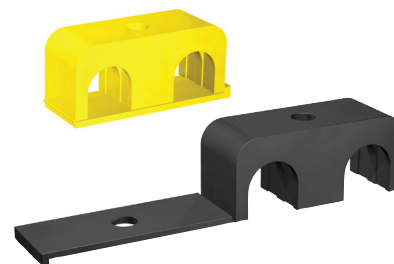
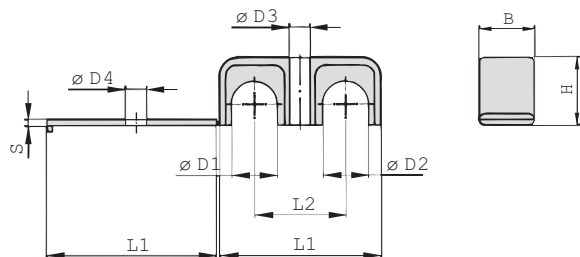
- Pneumatics, Instrumentation and Automotive Technology,  
Machine Tool Industry, Lubrication, Mechanical Engineering

| Group  | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D1 |      | Nominal<br>Bore<br>Pipe | Ordering Codes<br>(1 Clamp Body) | Dimensions<br>(mm/in) |     |     |     |      |     |      |      |
|--------|------------------------------------------------|------|-------------------------|----------------------------------|-----------------------|-----|-----|-----|------|-----|------|------|
| STAUFF | (mm)                                           | (in) | (in)                    | (** = Material)                  | L1                    | L2  | L3  | B   | H    | S   | Ø D2 | Ø D3 |
| 1      | 3,2                                            | 1/8  |                         | LB-103.2-**-**                   |                       |     |     |     |      |     |      |      |
|        | 6                                              |      |                         | LB-106-**-**                     | 22                    | 9   | 6,5 | 12  | 10,5 | 2   | 6,8  | 7    |
|        | 6,4                                            | 1/4  |                         | LB-106.4-**-**                   | .87                   | .35 | .26 | .47 | .41  | .08 | .27  | .28  |
|        | 8                                              |      |                         | LB-108-**-**                     |                       |     |     |     |      |     |      |      |
| 2      | 9,5                                            | 3/8  |                         | LB-209.5-**-**                   |                       |     |     |     |      |     |      |      |
|        | 10                                             |      | 1/8                     | LB-210-**-**                     | 27                    | 11  | 7   | 16  | 15   | 2   | 6,8  | 7    |
|        | 11,1                                           |      |                         | LB-211.1-**-**                   | 1.06                  | .43 | .28 | .63 | .59  | .08 | .27  | .28  |
|        | 12                                             |      |                         | LB-212-**-**                     |                       |     |     |     |      |     |      |      |
| 3      | 12,7                                           | 1/2  |                         | LB-312.7-**-**                   |                       |     |     |     |      |     |      |      |
|        | 13,5                                           |      | 1/4                     | LB-313.5-**-**                   |                       |     |     |     |      |     |      |      |
|        | 14                                             |      |                         | LB-314-**-**                     |                       |     |     |     |      |     |      |      |
|        | 15                                             |      |                         | LB-315-**-**                     | 34                    | 15  | 7   | 20  | 22,5 | 2   | 6,8  | 7    |
|        | 16                                             | 5/8  |                         | LB-316-**-**                     | 1.34                  | .59 | .28 | .79 | .89  | .08 | .27  | .28  |
|        | 17,2                                           |      | 3/8                     | LB-317.2-**-**                   |                       |     |     |     |      |     |      |      |
| 4      | 18                                             |      |                         | LB-318-**-**                     |                       |     |     |     |      |     |      |      |
|        | 19                                             | 3/4  |                         | LB-419-**-**                     |                       |     |     |     |      |     |      |      |
|        | 20                                             |      |                         | LB-420-**-**                     |                       |     |     |     |      |     |      |      |
|        | 21,3                                           |      | 1/2                     | LB-421.3-**-**                   | 42                    | 19  | 7   | 20  | 30   | 2   | 6,8  | 7    |
|        | 22                                             |      |                         | LB-422-**-**                     | 1.65                  | .75 | .28 | .79 | 1.18 | .08 | .27  | .28  |
|        | 25                                             |      |                         | LB-425-**-**                     |                       |     |     |     |      |     |      |      |
|        | 25,4                                           | 1    |                         | LB-425.4-**-**                   |                       |     |     |     |      |     |      |      |

Additional outside diameters are available upon request. Please contact STAUFF for further information.



## Clamp Body ▪ Twin Design Types LBG / LBU



| Group  | Outside Diameters<br>Pipe / Tube / Hose<br>Ø D1 / Ø D2 |      | Nominal<br>Bore<br>Pipe | Ordering Codes<br>(1 Clamp Body) | Dimensions<br>( <sup>mm</sup> / <sub>in</sub> ) |      |     |      |     |      |      |
|--------|--------------------------------------------------------|------|-------------------------|----------------------------------|-------------------------------------------------|------|-----|------|-----|------|------|
| STAUFF | (mm)                                                   | (in) |                         | (** = Material)                  | L1                                              | L2   | B   | H    | S   | Ø D3 | Ø D4 |
| 1      | 3,2                                                    | 1/8  |                         | LBG-103.2/03.2-**                |                                                 |      |     |      |     |      |      |
|        | 6                                                      |      |                         | LBG-106/06-**                    | 31                                              | 18   | 12  | 10,5 | 2   | 6,8  | 7    |
|        | 6,4                                                    | 1/4  |                         | LBG-106.4/06.4-**                | 1.22                                            | .71  | .47 | .41  | .08 | .27  | .28  |
|        | 8                                                      |      |                         | LBG-108/08-**                    |                                                 |      |     |      |     |      |      |
| 2      | 9,5                                                    | 3/8  |                         | LBG-209.5/09.5-**                |                                                 |      |     |      |     |      |      |
|        | 10                                                     |      | 1/8                     | LBG-210/10-**                    | 39                                              | 22   | 16  | 15   | 2   | 6,8  | 7    |
|        | 11,1                                                   |      |                         | LBG-211.1/11.1-**                | 1.54                                            | .87  | .63 | .59  | .08 | .27  | .28  |
|        | 12                                                     |      |                         | LBG-212/12-**                    |                                                 |      |     |      |     |      |      |
| 3      | 12,7                                                   | 1/2  |                         | LBG-312.7/12.7-**                |                                                 |      |     |      |     |      |      |
|        | 13,5                                                   |      | 1/4                     | LBG-313.5/13.5-**                |                                                 |      |     |      |     |      |      |
|        | 14                                                     |      |                         | LBG-314/14-**                    | 53                                              | 30   | 20  | 22,5 | 2   | 6,8  | 7    |
|        | 15                                                     |      |                         | LBG-315/15-**                    | 2.09                                            | 1.18 | .79 | .89  | .08 | .27  | .28  |
|        | 16                                                     | 5/8  |                         | LBG-316/16-**                    |                                                 |      |     |      |     |      |      |
|        | 17,2                                                   |      | 3/8                     | LBG-317.2/17.2-**                |                                                 |      |     |      |     |      |      |
|        | 18                                                     |      |                         | LBG-318/18-**                    |                                                 |      |     |      |     |      |      |
| 4      | 19                                                     | 3/4  |                         | LBG-419/19-**                    |                                                 |      |     |      |     |      |      |
|        | 20                                                     |      |                         | LBG-420/20-**                    |                                                 |      |     |      |     |      |      |
|        | 21,3                                                   |      | 1/2                     | LBG-421.3/21.3-**                | 70                                              | 38   | 20  | 30   | 2   | 6,8  | 7    |
|        | 22                                                     |      |                         | LBG-422/22-**                    | 2.76                                            | 1.50 | .79 | 1.18 | .08 | .27  | .28  |
|        | 25                                                     |      |                         | LBG-425/25-**                    |                                                 |      |     |      |     |      |      |
|        | 25,4                                                   | 1    |                         | LBG-425.4/25.4-**                |                                                 |      |     |      |     |      |      |

Additional outside diameters and combinations of different outside diameters (Clamp Body, Type LBU) are available upon request.  
Please contact STAUFF for further information.

### Ordering Codes

Clamp Body \*LBG-\*1\*03.2/03.2-\*PP

- \* Light Series: Clamp Body / Twin Design with identical diameters **LBG**
- Clamp Body / Twin Design with different diameters **LBU**
- \* STAUFF Group **1**
- \* Exact outside diameters Ø D1 / Ø D2 (mm) **03.2/03.2**
- \* Material code (see below) **PP**

### Standard Materials

**Polypropylene**  
Colour: Black  
Material code: **PP**

**Polyamide**  
Colour: Yellow  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

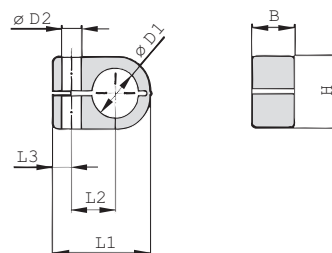
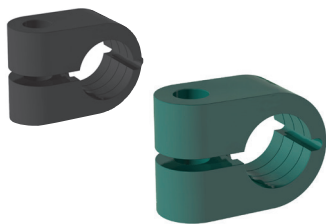
Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering



## Clamp Body ▪ Single Design Type LN



### Ordering Codes

#### Clamp Body

**\*LN-\*1\*06-\*PP**

- \* Light Series: Clamp Body / Single Design **LN**
- \* STAUFF Group **1**
- \* Exact outside diameter Ø D1 (mm) **06**
- \* Material code (see below) **PP**

### Standard Materials



#### Polypropylene

Colour: Green

Material code: **PP**



#### Polyamide

Colour: Black

Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Applications

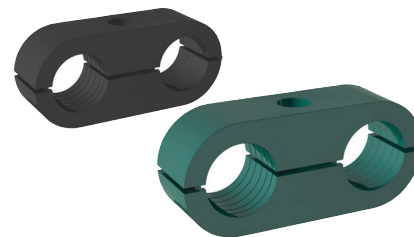
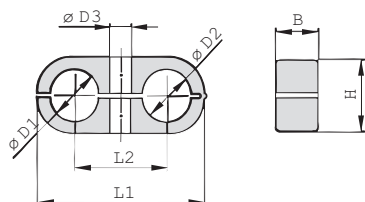
- Pneumatics, Instrumentation and Automotive Technology,  
Machine Tool Industry, Lubrication, Mechanical Engineering

| Group | Outside Diameter<br>Pipe / Tube / Hose<br>Ø D1 |     | Nominal<br>Bore<br>Pipe<br>(in) | Ordering Codes<br>(1 Clamp Body)<br>(** = Material) | Dimensions<br>(mm / in) |     |     |      |      |      |
|-------|------------------------------------------------|-----|---------------------------------|-----------------------------------------------------|-------------------------|-----|-----|------|------|------|
|       |                                                |     |                                 |                                                     | L1                      | L2  | L3  | B    | H    | Ø D2 |
| 1     | 6                                              |     |                                 | LN-106-**-                                          | 22                      | 9   | 7   | 14,5 | 13,5 | 6,8  |
|       | 6,4                                            | 1/4 |                                 | LN-106.4-**-                                        | .87                     | .35 | .28 | .57  | .53  | .27  |
|       | 8                                              |     |                                 | LN-108-**-                                          |                         |     |     |      |      |      |
| 2     | 8                                              |     |                                 | LN-208-**-                                          |                         |     |     |      |      |      |
|       | 9,5                                            | 3/8 |                                 | LN-209.5-**-                                        | 27                      | 11  | 7   | 14,5 | 18,5 | 6,8  |
|       | 10                                             |     | 1/8                             | LN-210-**-                                          | 1.06                    | .43 | .28 | .57  | .59  | .27  |
|       | 12                                             |     |                                 | LN-212-**-                                          |                         |     |     |      |      |      |
|       | 12,7                                           | 1/2 |                                 | LN-212.7-**-                                        |                         |     |     |      |      |      |
| 3     | 10                                             |     | 1/8                             | LN-310-**-                                          |                         |     |     |      |      |      |
|       | 12                                             |     |                                 | LN-312-**-                                          |                         |     |     |      |      |      |
|       | 12,7                                           | 1/2 |                                 | LN-312.7-**-                                        |                         |     |     |      |      |      |
|       | 13,5                                           |     | 1/4                             | LN-313.5-**-                                        | 33                      | 15  | 7   | 14,5 | 23,5 | 6,8  |
|       | 14                                             |     |                                 | LN-314-**-                                          | 1.30                    | .59 | .28 | .57  | .93  | .27  |
|       | 15                                             |     |                                 | LN-315-**-                                          |                         |     |     |      |      |      |
|       | 16                                             | 5/8 |                                 | LN-316-**-                                          |                         |     |     |      |      |      |
| 4     | 14                                             |     |                                 | LN-414-**-                                          |                         |     |     |      |      |      |
|       | 15                                             |     |                                 | LN-415-**-                                          |                         |     |     |      |      |      |
|       | 16                                             | 5/8 |                                 | LN-416-**-                                          |                         |     |     |      |      |      |
|       | 17,2                                           |     | 3/8                             | LN-417.2-**-                                        | 40                      | 19  | 7   | 14,5 | 30,5 | 6,8  |
|       | 18                                             |     |                                 | LN-418-**-                                          | 1.57                    | .75 | .28 | .57  | 1.20 | .27  |
|       | 19                                             | 3/4 |                                 | LN-419-**-                                          |                         |     |     |      |      |      |
|       | 20                                             |     |                                 | LN-420-**-                                          |                         |     |     |      |      |      |
|       | 21,3                                           |     | 1/2                             | LN-421.3-**-                                        |                         |     |     |      |      |      |
|       | 22                                             |     |                                 | LN-422-**-                                          |                         |     |     |      |      |      |

Additional outside diameters are available upon request. Please contact STAUFF for further information.



## Clamp Body ▪ Twin Design Type LNGF / LNUF



| Group  | Outside Diameters<br>Pipe / Tube / Hose<br>Ø D1 / Ø D2 | Nominal<br>Bore<br>Pipe | Ordering Codes<br>(1 Clamp Body) | Dimensions<br>(mm/in) |      |      |      |      |
|--------|--------------------------------------------------------|-------------------------|----------------------------------|-----------------------|------|------|------|------|
| STAUFF | (mm)                                                   | (in)                    | (** = Material)                  | L1                    | L2   | B    | H    | Ø D3 |
| 1      | 6                                                      |                         | LNGF-106/06-**-                  | 32                    | 18   | 14,5 | 13,5 | 6,8  |
|        | 6,4                                                    | 1/4                     | LNGF-106.4/06.4-**-              | 1.26                  | .70  | .57  | .53  | .27  |
|        | 8                                                      |                         | LNGF-108/08-**-                  |                       |      |      |      |      |
| 2      | 8                                                      |                         | LNGF-208/08-**-                  |                       |      |      |      |      |
|        | 9,5                                                    | 3/8                     | LNGF-209.5/09.5-**-              | 41                    | 22   | 14,5 | 18,5 | 6,8  |
|        | 10                                                     |                         | LNGF-210/10-**-                  | 1.61                  | .86  | .57  | .73  | .27  |
|        | 12                                                     |                         | LNGF-212/12-**-                  |                       |      |      |      |      |
|        | 12,7                                                   | 1/2                     | LNGF-212.7/12.7-**-              |                       |      |      |      |      |
| 3      | 10                                                     | 1/8                     | LNGF-310/10-**-                  |                       |      |      |      |      |
|        | 12                                                     |                         | LNGF-312/12-**-                  |                       |      |      |      |      |
|        | 12,7                                                   | 1/2                     | LNGF-312.7/12.7-**-              |                       |      |      |      |      |
|        | 13,5                                                   | 1/4                     | LNGF-313.5/13.5-**-              | 54                    | 30   | 14,5 | 23,5 | 6,8  |
|        | 14                                                     |                         | LNGF-314/14-**-                  | 2.13                  | 1.18 | .57  | .93  | .27  |
|        | 15                                                     |                         | LNGF-315/15-**-                  |                       |      |      |      |      |
|        | 16                                                     | 5/8                     | LNGF-316/16-**-                  |                       |      |      |      |      |
| 4      | 14                                                     |                         | LNGF-414/14-**-                  |                       |      |      |      |      |
|        | 15                                                     |                         | LNGF-415/15-**-                  |                       |      |      |      |      |
|        | 16                                                     | 5/8                     | LNGF-416/16-**-                  |                       |      |      |      |      |
|        | 17,2                                                   | 3/8                     | LNGF-417.2/17.2-**-              | 70                    | 38   | 14,5 | 30,5 | 6,8  |
|        | 18                                                     |                         | LNGF-418/18-**-                  | 2.76                  | 1.50 | .57  | 1.20 | .27  |
|        | 19                                                     | 3/4                     | LNGF-419/19-**-                  |                       |      |      |      |      |
|        | 20                                                     |                         | LNGF-420/20-**-                  |                       |      |      |      |      |
|        | 21,3                                                   | 1/2                     | LNGF-421.3/21.3-**-              |                       |      |      |      |      |
|        | 22                                                     |                         | LNGF-422/22-**-                  |                       |      |      |      |      |

Additional outside diameters and combinations of different outside diameters (Clamp Body, type LNUF) are available upon request. Please contact STAUFF for further information.

### Ordering Codes

Clamp Body \*LNGF-\*1\*06/06-\*PP

- \* Light Series: Clamp Body / Twin Design with identical diameters LNGF
- Clamp Body / Twin Design with different diameters LNUF
- \* STAUFF Group 1
- \* Exact outside diameters Ø D1 / Ø D2 (mm) 06/06
- \* Material code (see below) PP

### Standard Materials

**Polypropylene**  
Colour: Green  
Material code: PP

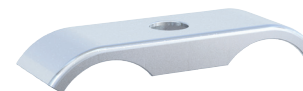
**Polyamide**  
Colour: Black  
Material code: PA

See pages 154 / 155 for material properties and technical information. Alternative materials are available upon request. Please contact STAUFF for further information.

### Applications

- Pneumatics, Instrumentation and Automotive Technology, Machine Tool Industry, Lubrication, Mechanical Engineering

## Cover Plate Type DPL



| Group  | Dimensions <sup>(mm/in)</sup> |      |      | Ordering Codes     |
|--------|-------------------------------|------|------|--------------------|
| STAUFF | L4                            | B2   | Ø D4 | (Standard Options) |
| 1      | 29,5                          | 15,5 | 6,8  | DPL-1-W3           |
|        | 1.16                          | .61  | .27  |                    |
| 2      | 40                            | 15,5 | 6,8  | DPL-2-W3           |
|        | 1.57                          | .61  | .27  |                    |
| 3      | 51                            | 16   | 6,8  | DPL-3-W3           |
|        | 2.01                          | .63  | .27  |                    |
| 4      | 63,5                          | 16   | 6,8  | DPL-4-W3           |
|        | 2.50                          | .63  | .27  |                    |

### Ordering Codes

Cover Plate \*DPL-\*1-\*W3

- \* Cover Plate for Clamp Body / Twin Design DPL
- \* STAUFF Group 1
- \* Material code Carbon Steel, zinc/nickel-plated W3

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Please note: The maximum tightening torque for bolts is 2,5 N·m (1.85 ft·lb).





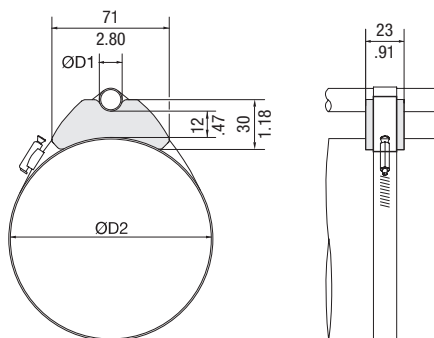


**Saddle / Piggyback Clamp**

ZR-518

**122****Custom-Designed Saddle / Piggyback Clamps****122**

## Saddle / Piggyback Clamps Type ZR



### Order Code

Saddle Clamp

ZR-518-SA73-BK

### Standard Material



Thermoplastic Elastomer (73 Shore-A)  
Colour: Black

See pages 154 / 155 for properties and technical information.

| Min/Max Outside Diameters * |             |             |               | Tightening Strap Dimensions<br>(Not Included in Scope of Delivery) |                 |       |      |
|-----------------------------|-------------|-------------|---------------|--------------------------------------------------------------------|-----------------|-------|------|
| Pipe / Tube<br>Ø D1         |             | Ø D2        |               | Length                                                             |                 | Width |      |
| (mm)                        | (in)        | (mm)        | (in)          | (mm)                                                               | (in)            | (mm)  | (in) |
| 10 ... 22                   | .39 ... .87 | 50 ... 70   | 1.96 ... 2.76 | 196 ... 254                                                        | 7.71 ... 10.00  | 13    | .51  |
|                             |             | 60 ... 80   | 2.36 ... 3.15 | 225 ... 284                                                        | 8.86 ... 11.18  |       |      |
|                             |             | 70 ... 90   | 2.76 ... 3.54 | 254 ... 314                                                        | 10.00 ... 12.36 |       |      |
|                             |             | 80 ... 105  | 3.15 ... 4.13 | 284 ... 359                                                        | 11.18 ... 14.13 |       |      |
|                             |             | 90 ... 120  | 3.54 ... 4.72 | 314 ... 404                                                        | 12.36 ... 15.90 |       |      |
|                             |             | 105 ... 140 | 4.13 ... 5.51 | 359 ... 464                                                        | 14.13 ... 18.27 |       |      |
|                             |             | 125 ... 160 | 4.92 ... 6.30 | 419 ... 525                                                        | 16.50 ... 20.66 |       |      |
|                             |             | 145 ... 180 | 5.71 ... 7.09 | 479 ... 586                                                        | 18.86 ... 23.07 |       |      |
|                             |             | 165 ... 200 | 6.50 ... 7.87 | 540 ... 647                                                        | 21.26 ... 25.47 |       |      |

\* Ø D1 depending on Ø D2!

## Saddle / Piggyback Clamps

Type ZR saddle clamps from STAUFF allow direct fixing and safe guiding of pipes, tubes and hoses on hydraulic cylinders and other round or oval structures, without causing damage to their strength or integrity as with screw-fixing or welding and without preparation or reworking of the surface coating. The simple system also allows a pipe, tube or hose with a small outer diameter to be installed on top of a significantly larger one.

The position can be adjusted at any time thanks to free axial and radial positioning of the clamps on the structure. This also makes the system suitable for retrofitting.

The standard version ZR-518 made of thermoplastic elastomer material covers diameters in a range from 50 to 200 mm / 1.96 to 7.87 in for the cylinder and from 10 to 22 mm / .39 to .87 inch for the attached tube or hose. The diameters to be covered are used to calculate the overall length of the required tightening straps or the dimensions of the steel strap or worm drive hose clamp, e.g. according to DIN 3017.

STAUFF meets deviating requirements with numerous other variants which were implemented in the past and can be manufactured again at any time.

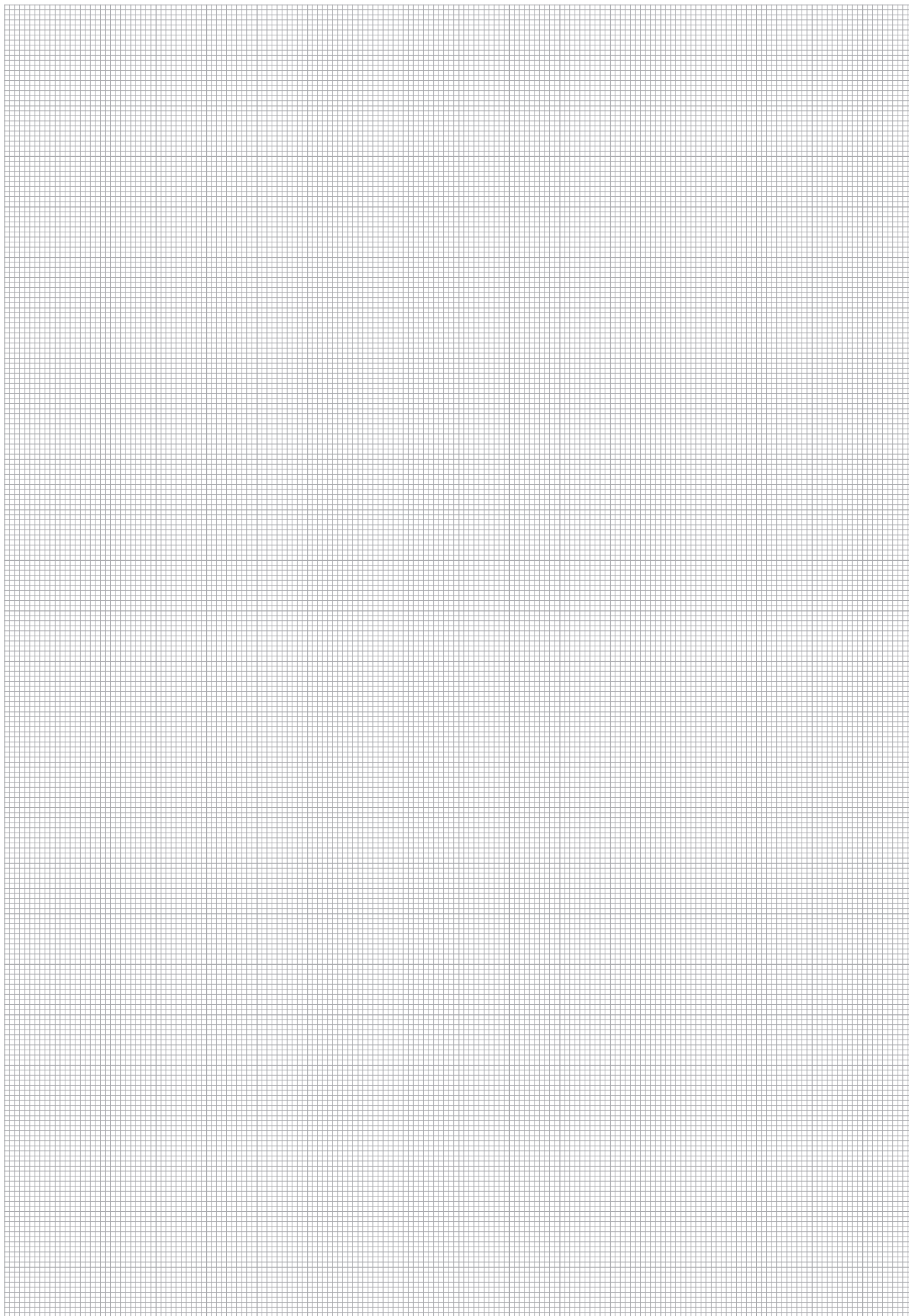
If required, customised clamps can be developed for specific requirements or manufactured based on drawings and models provided.

Please contact STAUFF for further information.



Dimensional drawings: All dimensions in mm (in).











**Flat Steel U-Bolt  
with Plastic Pipe Saddle (Short) and U-Profile**  
FB / RUK

126



**Round Steel U-Bolt  
with Plastic Pipe Saddle (Short)**  
RB / RUK

128



**Round Steel U-Bolt  
with Plastic Pipe Saddle (Long)**  
RB / RUL

130



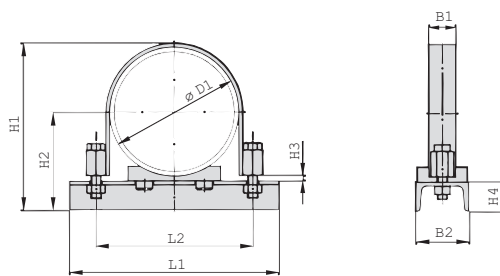
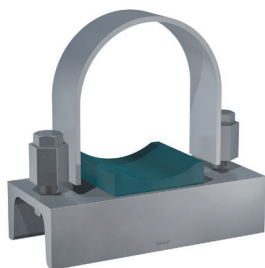
**Round Steel U-Bolt (DIN 3570, Type A)  
without Plastic Pipe Saddle**  
RBD

132





## Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile Type FB+RUK (To be used as Fixed Point Clamps only)



Flat Steel U-Bolt (type FB) with Plastic Pipe Saddle  
(type RUK), U-Profile and Hexagon Head Bolts

### Ordering Codes

#### Clamp Assembly \*FB+RUK-\*48.3-\*PP-\*W1

One clamp assembly is consisting of one Flat Steel U-Bolt (type FB), one Plastic Pipe Saddle (type RUK), one U-Profile (to DIN 1026) with two Nuts (to DIN EN ISO 4032) and two Hexagon Head Bolts (to DIN EN ISO 4014 / 4017).

\* Clamp Assembly (as listed above) **FB+RUK**

\* Exact outside diameter Ø D1 (mm) **48.3**

\* Material of Pipe Saddle (see below) **PP**

\* Material code Carbon Steel, uncoated **W1**  
Carbon Steel, zinc-plated, blue-chromated **W33**

Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) **W5**

Please note: The U-Profile (to DIN 1026) is made of Carbon Steel, uncoated.

Please note: All items are supplied assembled.

### Standard Materials for Plastic Pipe Saddles

#### Polypropylene

Colour: Green

Material code: **PP**

#### Polyamide

Colour: Black

Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Applications

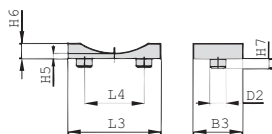
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

| Diameter<br>Nominal<br>DN | Outside Diameter<br>Pipe / Tube<br>Ø D1<br>(mm) (in) |       | Nominal<br>Bore<br>Pipe<br>(in) | Dimensions (mm/in) |       |       |       |            |             | U-Profile<br>(DIN 1026)<br>B2 x H4 |             |
|---------------------------|------------------------------------------------------|-------|---------------------------------|--------------------|-------|-------|-------|------------|-------------|------------------------------------|-------------|
|                           | Flat Steel U-Bolt (Type FB)                          |       |                                 |                    |       |       |       |            |             |                                    |             |
|                           |                                                      |       |                                 | L1                 | L2    | H1    | H2    | H3         | B1          |                                    |             |
| 40                        | 48,3                                                 | 1.93  | 1-1/2                           | 100                | 76    | 95    | 67    | 5          | 20 x 3      | 50 x 38                            |             |
|                           |                                                      |       |                                 | 3.94               | 2.99  | 3.74  | 2.64  | .20        | .78 x .12   | 1.97 x 1.50                        |             |
| 50                        | 57                                                   | 2.28  | 2                               | 115                | 85    | 103   | 71,5  | 5          | 20 x 3      | 50 x 38                            |             |
|                           |                                                      |       |                                 | 4.53               | 3.35  | 4.06  | 2.81  | .20        | .78 x .12   | 1.97 x 1.50                        |             |
|                           | 60,3                                                 | 2.41  |                                 | 115                | 88    | 106   | 73,2  | 5          | 20 x 3      | 50 x 38                            |             |
|                           |                                                      |       |                                 | 4.53               | 3.46  | 4.17  | 2.88  | .20        | .78 x .12   | 1.97 x 1.50                        |             |
| 65                        | 76,1                                                 | 3.04  | 2-1/2                           | 132                | 104   | 122   | 81    | 5          | 20 x 3      | 50 x 38                            |             |
| 80                        | 88,9                                                 | 3.56  | 3                               | 5.20               | 4.09  | 4.80  | 3.19  | .20        | .78 x .12   | 1.97 x 1.50                        |             |
|                           |                                                      |       |                                 | 160                | 121   | 146   | 97,5  | 8          | 40 x 4      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 6.30               | 4.76  | 5.75  | 3.84  | .31        | 1.57 x .16  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 170                | 140   | 165   | 107   | 8          | 40 x 4      | 80 x 45                            |             |
| 100                       | 108                                                  | 4.32  | 4                               | 6.69               | 5.51  | 6.50  | 4.21  | .31        | 1.57 x .16  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 180                | 147   | 171   | 110   | 8          | 40 x 4      | 80 x 45                            |             |
|                           | 114,3                                                | 4.57  |                                 | 7.09               | 5.79  | 6.73  | 4.33  | .31        | 1.57 x .16  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 210                | 165   | 190   | 119,5 | 8          | 40 x 4      | 80 x 45                            |             |
| 125                       | 133                                                  | 5.32  | 5                               | 8.27               | 6.50  | 7.48  | 4.70  | .31        | 1.57 x .16  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 210                | 172   | 197   | 123   | 8          | 40 x 4      | 80 x 45                            |             |
|                           | 139,7                                                | 5.59  |                                 | 8.27               | 6.77  | 7.76  | 4.84  | .31        | 1.57 x .16  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 265                | 201   | 220   | 132,5 | 8          | 40 x 6      | 80 x 45                            |             |
| 150                       | 159                                                  | 6.36  | 6                               | 1.43               | 7.91  | 8.66  | 5.22  | .31        | 1.57 x .24  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 275                | 211   | 230   | 137   | 8          | 40 x 6      | 80 x 45                            |             |
|                           | 168,3                                                | 6.73  |                                 | 1.83               | 8.31  | 9.06  | 5.39  | .31        | 1.57 x .24  | 3.15 x 1.77                        |             |
|                           |                                                      |       |                                 | 305                | 236   | 255   | 150   | 8          | 40 x 6      | 80 x 45                            |             |
| 175                       | 193,7                                                | 7.75  |                                 | 12.01              | 9.29  | 1.04  | 5.91  | .31        | 1.57 x .24  | 3.15 x 1.77                        |             |
| 200                       | 216                                                  | 8.64  | 8                               | 320                | 258   | 277   | 161   | 8          | 40 x 6      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 12.60              | 10.16 | 1.91  | 6.34  | .31        | 1.57 x .24  | 3.15 x 1.77                        |             |
|                           | 219,1                                                | 8.76  |                                 | 320                | 261   | 280   | 162,5 | 8          | 40 x 6      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 12.60              | 1.28  | 11.02 | 6.40  | .31        | 1.57 x .24  | 3.15 x 1.77                        |             |
| 250                       | 267                                                  | 10.68 | 10                              | 380                | 324   | 328   | 186,5 | 8          | 40 x 8      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 14.96              | 12.76 | 12.91 | 7.34  | .31        | 1.57 x .31  | 3.15 x 1.77                        |             |
|                           | 273                                                  | 10.92 |                                 | 385                | 330   | 334   | 189,5 | 8          | 40 x 8      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 15.16              | 12.99 | 13.15 | 7.46  | .31        | 1.57 x .31  | 3.15 x 1.77                        |             |
| 300                       | 318                                                  | 12.72 | 12                              | 440                | 375   | 382   | 212   | 8          | 40 x 8      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 17.32              | 14.76 | 15.04 | 8.35  | .31        | 1.57 x .31  | 3.15 x 1.77                        |             |
|                           | 323,9                                                | 12.96 |                                 | 450                | 381   | 390   | 215   | 8          | 40 x 8      | 80 x 45                            |             |
|                           |                                                      |       |                                 | 17.72              | 15.00 | 15.35 | 8.46  | .31        | 1.57 x .31  | 3.15 x 1.77                        |             |
| 350                       | 355,6                                                | 14.22 | 14                              | 480                | 417,5 | 421   | 235   | 12         | 60 x 8      | 100 x 50                           |             |
|                           |                                                      |       |                                 | 18.90              | 16.44 | 16.57 | 9.25  | .47        | 2.36 x .31  | 3.94 x 1.97                        |             |
|                           | 368                                                  | 14.72 |                                 | 490                | 430   | 434   | 242   | 12         | 60 x 8      | 100 x 50                           |             |
|                           |                                                      |       |                                 | 19.29              | 16.93 | 17.09 | 9.53  | .47        | 2.36 x .31  | 3.94 x 1.97                        |             |
| 400                       | 406,4                                                | 16.26 | 16                              | 550                | 468,5 | 472   | 261   | 12         | 60 x 8      | 100 x 50                           |             |
|                           |                                                      |       |                                 | 21.65              | 18.44 | 18.58 | 10.28 | .47        | 2.36 x .31  | 3.94 x 1.97                        |             |
|                           | 419                                                  | 16.76 |                                 | 550                | 481   | 485   | 267,5 | 12         | 60 x 8      | 100 x 50                           |             |
|                           |                                                      |       |                                 | 21.65              | 18.94 | 19.09 | 10.53 | .47        | 2.36 x .31  | 3.94 x 1.97                        |             |
| 450                       | 457                                                  | 18.28 | 18                              | 585                | 519   | 523   | 286,5 | 12         | 60 x 8      | 100 x 50                           |             |
|                           |                                                      |       |                                 | 23.03              | 20.43 | 20.59 | 11.28 | .47        | 2.36 x .31  | 3.94 x 1.97                        |             |
|                           | 508                                                  | 20.32 |                                 | 20                 | 630   | 570   | 574   | 312        | 12          | 60 x 8                             | 100 x 50    |
|                           |                                                      |       |                                 |                    | 24.80 | 22.44 | 22.60 | 12.28      | .47         | 2.36 x .31                         | 3.94 x 1.97 |
| 521                       | 20.84                                                | 640   | 583                             |                    | 587   | 319   | 12    | 60 x 8     | 100 x 50    |                                    |             |
|                           |                                                      | 25.20 | 22.96                           |                    | 23.11 | 12.56 | .47   | 2.36 x .31 | 3.94 x 1.97 |                                    |             |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

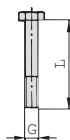


## Flat Steel U-Bolt with Plastic Pipe Saddle (Short) and U-Profile (To be used as Fixed Point Clamps only) Type FB+RUK



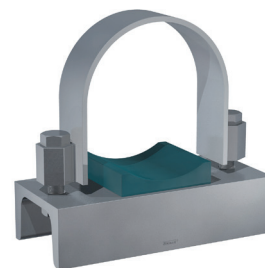
**Plastic Pipe Saddle (type RUK)**

(For size DN 40, dimension L4 is staggered by 90°)



**Hexagon Head Bolt AS**

(according to DIN EN ISO 4014 / 4017)



| Diameter<br>Nominal | Outside Diameter<br>Pipe / Tube<br>Ø D1 |       | Nominal<br>Bore<br>Pipe<br>(in) | Dimensions (""/in)             |             |            |            |          |            |           | Hexagon Head Bolt<br>(DIN EN ISO 4014 / 4017)<br>Thread G x L |
|---------------------|-----------------------------------------|-------|---------------------------------|--------------------------------|-------------|------------|------------|----------|------------|-----------|---------------------------------------------------------------|
| DN                  | (mm)                                    | (in)  |                                 | Plastic Pipe Saddle (type RUK) |             |            |            |          |            |           |                                                               |
|                     |                                         |       |                                 | L3                             | L4          | B3         | D2         | H5       | H6         | H7        |                                                               |
| 40                  | 48,3                                    | 1.93  | 1-1/2                           | 24<br>.94                      | 25<br>.98   | 35<br>1.38 | 8<br>.31   | 5<br>.20 | 8<br>.31   | 5<br>.20  | M10 x 40                                                      |
| 50                  | 57                                      | 2.28  |                                 | 38<br>1.50                     | 25<br>.98   | 50<br>1.97 | 10<br>.39  | 5<br>.20 | 10<br>.39  | 6<br>.24  | M10 x 40                                                      |
|                     | 60,3                                    | 2.41  | 2                               | 38<br>1.50                     | 25<br>.98   | 50<br>1.97 | 10<br>.39  | 5<br>.20 | 10<br>.39  | 6<br>.24  | M10 x 40                                                      |
| 65                  | 76,1                                    | 3.04  | 2-1/2                           | 38<br>1.50                     | 25<br>.98   | 50<br>1.97 | 10<br>.39  | 5<br>.20 | 10<br>.39  | 6<br>.24  | M10 x 40                                                      |
| 80                  | 88,9                                    | 3.56  | 3                               | 75<br>2.95                     | 40<br>1.57  | 70<br>2.76 | 15<br>.59  | 8<br>.31 | 17<br>.67  | 10<br>.39 | M 12 x 55                                                     |
| 100                 | 108                                     | 4.32  |                                 | 75<br>2.95                     | 40<br>1.57  | 70<br>2.76 | 15<br>.59  | 8<br>.31 | 17<br>.67  | 10<br>.39 | M 12 x 55                                                     |
|                     | 114,3                                   | 4.57  | 4                               | 75<br>2.95                     | 40<br>1.57  | 70<br>2.76 | 15<br>.59  | 8<br>.31 | 17<br>.67  | 10<br>.39 | M 12 x 55                                                     |
| 125                 | 133                                     | 5.32  |                                 | 75<br>2.95                     | 40<br>1.57  | 70<br>2.76 | 15<br>.59  | 8<br>.31 | 17<br>.67  | 10<br>.39 | M 12 x 55                                                     |
|                     | 139,7                                   | 5.59  | 5                               | 75<br>2.95                     | 40<br>1.57  | 70<br>2.76 | 15<br>.59  | 8<br>.31 | 17<br>.67  | 10<br>.39 | M 12 x 55                                                     |
| 150                 | 159                                     | 6.36  |                                 | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 16 x 75                                                     |
|                     | 168,3                                   | 6.73  | 6                               | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 16 x 75                                                     |
| 175                 | 193,7                                   | 7.75  |                                 | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 16 x 75                                                     |
| 200                 | 216                                     | 8.64  |                                 | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 16 x 75                                                     |
|                     | 219,1                                   | 8.76  | 8                               | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 16 x 75                                                     |
| 250                 | 267                                     | 10.68 |                                 | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 20 x 80                                                     |
|                     | 273                                     | 10.92 | 10                              | 140<br>5.51                    | 90<br>3.54  | 75<br>2.95 | 25<br>.98  | 8<br>.31 | 26<br>1.02 | 10<br>.39 | M 20 x 80                                                     |
| 300                 | 318                                     | 12.72 |                                 | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 20 x 80                                                     |
|                     | 323,9                                   | 12.96 | 12                              | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 20 x 80                                                     |
| 350                 | 355,6                                   | 14.22 | 14                              | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |
|                     | 368                                     | 14.72 |                                 | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |
| 400                 | 406,4                                   | 16.26 | 16                              | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |
|                     | 419                                     | 16.76 |                                 | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |
| 500                 | 457                                     | 18.28 | 18                              | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |
|                     | 508                                     | 20.32 | 20                              | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |
|                     | 521                                     | 20.84 |                                 | 220<br>8.66                    | 150<br>5.91 | 75<br>2.95 | 30<br>1.18 | 8<br>.31 | 32<br>1.26 | 10<br>.39 | M 24 x 100                                                    |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Flat Steel U-Bolt

**\*FB-\*A-48.3-\*W1**

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| * Flat Steel U-Bolt                | FB                                                         |
| * Exact outside diameter Ø D1 (mm) | A-48.3                                                     |
| * Material code                    | Carbon Steel, uncoated W1                                  |
|                                    | Carbon Steel, zinc-plated, blue-chromated W32              |
|                                    | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5 |

#### only Plastic Pipe Saddle

**\*RUK-\*48.3-\*PP**

|                                       |      |
|---------------------------------------|------|
| * Plastic Pipe Saddle (Short)         | RUK  |
| * Exact outside diameter Ø D1 (mm)    | 48.3 |
| * Material of Pipe Saddle (see below) | PP   |

Please note: All items are supplied assembled.

### Standard Materials for Plastic Pipe Saddles

**Polypropylene**  
Colour: Green  
Material code: **PP**

**Polyamide**  
Colour: Black  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

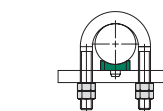
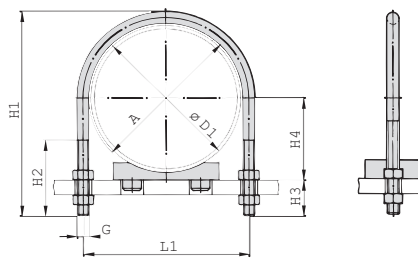
Alternative materials are available upon request. Please contact STAUFF for further information.

### Applications

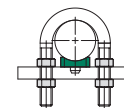
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



## Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



Recommended Installation  
<DN25



Recommended Installation  
>DN25

Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUK)

### Ordering Codes

#### Clamp Assembly \*RB+RUK-\*48.3-\*PP-\*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUK) and four Nuts (to DIN EN ISO 4032).

\* Clamp Assembly (as listed above) **RB+RUK**

\* Exact outside diameter Ø D1 (mm) **48.3**

\* Material of Pipe Saddle (see below) **PP**

\* Material code Carbon Steel, uncoated **W1**  
Carbon Steel, zinc-plated,  
blue-chromated **W32**

Stainless Steel V4A **W5**  
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: All items are supplied non-assembled.

### Standard Materials for Plastic Pipe Saddles



#### Polypropylene

Colour: Green

Material code: **PP**



#### Polyamide

Colour: Black

Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Applications

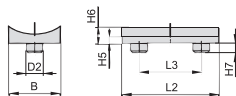
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

| Diameter Nominal<br>DN | Outside Diameter<br>Pipe / Tube<br>Ø D1<br>(mm) (in) |       | Nominal<br>Bore<br>Pipe<br>(in) | Dimensions (mm/in)           |              |              |             |            |               |          |
|------------------------|------------------------------------------------------|-------|---------------------------------|------------------------------|--------------|--------------|-------------|------------|---------------|----------|
|                        |                                                      |       |                                 | Round Steel U-Bolt (Type RB) |              |              |             |            |               |          |
|                        |                                                      |       |                                 | A                            | L1           | H1           | H2          | H3         | H4            | Thread G |
| 20                     | 25                                                   | .98   |                                 | 30                           | 40<br>1.57   | 73,5<br>2.89 | 41<br>1.61  | 30<br>1.18 | 17,5<br>.69   | M10      |
|                        | 26,9                                                 | 1.06  | 3/4                             | 1.18                         | 40<br>1.57   | 73,5<br>2.89 | 41<br>1.61  | 30<br>1.18 | 18,5<br>.73   | M10      |
| 25                     | 30                                                   | 1.18  |                                 | 38                           | 48<br>1.89   | 81<br>3.19   | 48<br>1.89  | 30<br>1.18 | 20<br>.79     | M10      |
|                        | 33,7                                                 | 1.33  | 1                               | 1.50                         | 48<br>1.89   | 81<br>3.19   | 48<br>1.89  | 30<br>1.18 | 22<br>.87     | M10      |
| 32                     | 38                                                   | 1.50  |                                 | 46                           | 56<br>2.20   | 89<br>3.50   | 48<br>1.89  | 30<br>1.18 | 24<br>.94     | M10      |
|                        | 42,4                                                 | 1.69  | 1-1/4                           | 1.81                         | 56<br>2.20   | 89<br>3.50   | 48<br>1.89  | 30<br>1.18 | 26,2<br>1.03  | M10      |
| 40                     | 44,5                                                 | 1.76  |                                 | 52                           | 62<br>2.44   | 100<br>3.94  | 55<br>2.17  | 35<br>1.38 | 27,2<br>1.07  | M10      |
|                        | 48,3                                                 | 1.90  | 1-1/2                           | 2.05                         | 62<br>2.44   | 100<br>3.94  | 55<br>2.17  | 35<br>1.38 | 29<br>1.14    | M10      |
| 50                     | 57                                                   | 2.28  |                                 | 64                           | 76<br>2.99   | 118<br>4.65  | 63<br>2.48  | 39<br>1.54 | 33,5<br>1.32  | M12      |
|                        | 60,3                                                 | 2.41  | 2                               | 2.52                         | 76<br>2.99   | 118<br>4.65  | 63<br>2.48  | 39<br>1.54 | 35,2<br>1.39  | M12      |
| 65                     | 76,1                                                 | 3.04  | 2-1/2                           | 82                           | 94<br>3.23   | 135<br>5.31  | 77<br>3.03  | 39<br>1.54 | 43<br>1.69    | M12      |
| 80                     | 88,9                                                 | 3.56  | 3                               | 94                           | 106<br>3.70  | 152<br>5.98  | 82<br>3.23  | 41<br>1.61 | 52,5<br>2.07  | M12      |
| 100                    | 108                                                  | 4.32  |                                 | 120                          | 136<br>5.35  | 190<br>7.48  | 105<br>4.13 | 49<br>1.93 | 62<br>2.44    | M16      |
|                        | 114,3                                                | 4.57  | 4                               | 4.72                         | 136<br>5.35  | 190<br>7.48  | 105<br>4.13 | 49<br>1.93 | 65<br>2.56    | M16      |
| 125                    | 133                                                  | 5.32  |                                 | 148                          | 164<br>6.46  | 217<br>8.54  | 105<br>4.13 | 49<br>1.93 | 74,5<br>2.93  | M16      |
|                        | 139,7                                                | 5.59  | 5                               | 5.83                         | 164<br>6.46  | 217<br>8.54  | 105<br>4.13 | 49<br>1.93 | 78<br>3.07    | M16      |
| 150                    | 159                                                  | 6.36  |                                 | 176                          | 192<br>7.56  | 247<br>9.72  | 105<br>4.13 | 51<br>2.01 | 87,5<br>3.44  | M16      |
|                        | 168,3                                                | 6.73  | 6                               | 6.93                         | 192<br>7.56  | 247<br>9.72  | 105<br>4.13 | 51<br>2.01 | 92<br>3.62    | M16      |
| 175                    | 193,7                                                | 7.75  |                                 | 202                          | 218<br>7.96  | 273<br>10.75 | 105<br>4.13 | 51<br>2.01 | 105<br>4.13   | M16      |
| 200                    | 216                                                  | 8.64  |                                 | 228                          | 248<br>9.76  | 311<br>12.24 | 125<br>4.92 | 59<br>2.32 | 116<br>4.57   | M20      |
|                        | 219,1                                                | 8.76  | 8                               | 8.98                         | 248<br>9.76  | 311<br>12.24 | 125<br>4.92 | 59<br>2.32 | 117,5<br>4.63 | M20      |
| 250                    | 267                                                  | 10.68 |                                 | 282                          | 303<br>11.93 | 364<br>14.33 | 125<br>4.92 | 59<br>2.32 | 141,5<br>5.57 | M20      |
|                        | 273                                                  | 10.92 | 10                              | 11.10                        | 302<br>11.89 | 364<br>14.33 | 125<br>4.92 | 59<br>2.32 | 144,5<br>5.69 | M20      |
| 300                    | 318                                                  | 12.72 |                                 | 332                          | 352<br>13.86 | 418<br>16.46 | 125<br>4.92 | 62<br>2.44 | 167<br>6.57   | M20      |
|                        | 323,9                                                | 12.96 | 12                              | 13.07                        | 352<br>13.86 | 418<br>16.46 | 125<br>4.92 | 62<br>2.44 | 170<br>6.69   | M20      |
| 350                    | 355,6                                                | 14.22 | 14                              | 378                          | 402<br>15.83 | 475<br>18.70 | 145<br>5.71 | 70<br>2.76 | 186<br>7.32   | M24      |
|                        | 368                                                  | 14.72 |                                 | 14.88                        | 402<br>15.83 | 475<br>18.70 | 145<br>5.71 | 70<br>2.76 | 192<br>7.56   | M24      |
| 400                    | 406,4                                                | 16.26 | 16                              | 428                          | 452<br>17.80 | 526<br>20.71 | 145<br>5.71 | 70<br>2.76 | 211<br>8.31   | M24      |
|                        | 419                                                  | 16.76 |                                 | 16.85                        | 452<br>17.80 | 526<br>20.71 | 145<br>5.71 | 70<br>2.76 | 217,5<br>8.56 | M24      |
| 500                    | 508                                                  | 20.32 | 20                              | 530                          | 554<br>21.81 | 627<br>24.69 | 145<br>5.71 | 70<br>2.76 | 262<br>10.31  | M24      |
|                        | 521                                                  | 20.84 |                                 | 20.87                        | 554<br>21.81 | 627<br>24.69 | 145<br>5.71 | 70<br>2.76 | 269<br>10.59  | M24      |

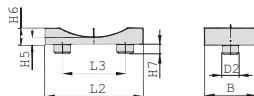
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Round Steel U-Bolt with Plastic Pipe Saddle (Short) Type RB+RUK



**Plastic Pipe Saddle (type RUK)**  
(For sizes DN 20 to DN 40)



**Plastic Pipe Saddle (type RUK)**  
(From size DN 50 on)



| Diameter<br>Nominal<br>DN | Outside Diameter<br>Pipe / Tube<br>Ø D1<br>(mm) (in) |       | Nominal<br>Bore<br>Pipe<br>(in) | Dimensions (mm/in)             |      |      |      |     |      |     |      |
|---------------------------|------------------------------------------------------|-------|---------------------------------|--------------------------------|------|------|------|-----|------|-----|------|
|                           |                                                      |       |                                 | Plastic Pipe Saddle (Type RUK) |      |      |      |     |      |     |      |
|                           |                                                      |       |                                 | A                              | L2   | L3   | B    | H5  | H6   | H7  | D2   |
| 20                        | 25                                                   | .98   |                                 | 30                             | 35   | 25   | 24   | 5   | 8    | 5   | 8    |
|                           | 26,9                                                 | 1.06  | 3/4                             | 1.18                           | 1.38 | .98  | .94  | .20 | .31  | .20 | .31  |
| 25                        | 30                                                   | 1.18  |                                 | 38                             | 35   | 25   | 24   | 5   | 8    | 5   | 8    |
|                           | 33,7                                                 | 1.33  | 1                               | 1.50                           | 1.38 | .98  | .94  | .20 | .31  | .20 | .31  |
| 32                        | 38                                                   | 1.50  |                                 | 46                             | 35   | 25   | 24   | 5   | 8    | 5   | 8    |
|                           | 42,4                                                 | 1.69  | 1-1/4                           | 1.81                           | 1.38 | .98  | .94  | .20 | .31  | .20 | .31  |
| 40                        | 44,5                                                 | 1.76  |                                 | 52                             | 35   | 25   | 24   | 5   | 8    | 5   | 8    |
|                           | 48,3                                                 | 1.90  | 1-1/2                           | 2.05                           | 1.38 | .98  | .94  | .20 | .31  | .20 | .31  |
| 50                        | 57                                                   | 2.28  |                                 | 64                             | 38   | 25   | 50   | 5   | 10   | 6   | 10   |
|                           | 60,3                                                 | 2.41  | 2                               | 2.52                           | 1.50 | .98  | 1.97 | .20 | .39  | .24 | .39  |
| 65                        | 76,1                                                 | 3.04  | 2-1/2                           | 82                             | 38   | 25   | 50   | 5   | 10   | 6   | 10   |
| 80                        | 88,9                                                 | 3.56  | 3                               | 94                             | 3.23 | 1.50 | 1.97 | .20 | .39  | .24 | .39  |
| 100                       | 108                                                  | 4.32  |                                 | 120                            | 75   | 40   | 70   | 8   | 17   | 10  | 15   |
|                           | 114,3                                                | 4.57  | 4                               | 4.72                           | 2.95 | 1.57 | 2.76 | .31 | .67  | .39 | .59  |
| 125                       | 133                                                  | 5.32  |                                 | 148                            | 75   | 40   | 70   | 8   | 17   | 10  | 15   |
|                           | 139,7                                                | 5.59  | 5                               | 5.83                           | 2.95 | 1.57 | 2.76 | .31 | .67  | .39 | .59  |
| 150                       | 159                                                  | 6.36  |                                 | 176                            | 140  | 90   | 75   | 8   | 26   | 10  | 25   |
|                           | 168,3                                                | 6.73  | 6                               | 6.93                           | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98  |
| 175                       | 193,7                                                | 7.75  |                                 | 202                            | 140  | 90   | 75   | 8   | 26   | 10  | 25   |
| 200                       | 216                                                  | 8.64  |                                 | 228                            | 140  | 90   | 75   | 8   | 26   | 10  | 25   |
|                           | 219,1                                                | 8.76  | 8                               | 8.98                           | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98  |
| 250                       | 267                                                  | 10.68 |                                 | 282                            | 140  | 90   | 75   | 8   | 26   | 10  | 25   |
|                           | 273                                                  | 10.92 | 10                              | 11.10                          | 5.51 | 3.54 | 2.95 | .31 | 1.02 | .39 | .98  |
| 300                       | 318                                                  | 12.72 |                                 | 332                            | 220  | 150  | 75   | 8   | 32   | 10  | 30   |
|                           | 323,9                                                | 12.96 | 12                              | 13.07                          | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 |
| 350                       | 355,6                                                | 14.22 | 14                              | 378                            | 220  | 150  | 75   | 8   | 32   | 10  | 30   |
|                           | 368                                                  | 14.72 |                                 | 14.88                          | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 |
| 400                       | 406,4                                                | 16.26 | 16                              | 428                            | 220  | 150  | 75   | 8   | 32   | 10  | 30   |
|                           | 419                                                  | 16.76 |                                 | 16.85                          | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 |
| 500                       | 508                                                  | 2.32  | 20                              | 530                            | 220  | 150  | 75   | 8   | 32   | 10  | 30   |
|                           | 521                                                  | 2.84  |                                 | 2.87                           | 8.66 | 5.91 | 2.95 | .31 | 1.26 | .39 | 1.18 |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Round Steel U-Bolt \*RB-\*A-52-\*W1-\*COMPL

One Round Steel U-Bolt (type RB) includes four Nuts (to DIN EN ISO 4032).

|                      |                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| * Round Steel U-Bolt | RB                                                                                                                                   |
| * Dimension A (mm)   | A-52                                                                                                                                 |
| * Material code      | Carbon Steel, uncoated<br>Carbon Steel, zinc-plated,<br>blue-chromated<br>Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti) |
|                      | W1<br>W32<br>W5                                                                                                                      |

#### only Plastic Pipe Saddle \*RUK-\*48.3-\*PP

|                                       |      |
|---------------------------------------|------|
| * Plastic Pipe Saddle (Short)         | RUK  |
| * Exact outside diameter Ø D1 (mm)    | 48.3 |
| * Material of Pipe Saddle (see below) | PP   |

### Standard Materials for Plastic Pipe Saddles

**Polypropylene**  
Colour: Green  
Material code: **PP**

**Polyamide**  
Colour: Black  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

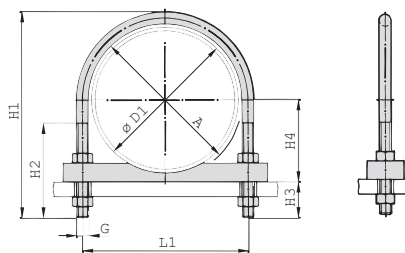
Alternative materials are available upon request. Please contact STAUFF for further information.

### Applications

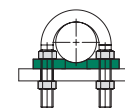
- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube



## Round Steel U-Bolt with Plastic Pipe Saddle (Long) Type RB+RUL



Round Steel U-Bolt (type RB) with Plastic Pipe Saddle (type RUL)



### Ordering Codes

#### Clamp Assembly \*RB+RUL-\*48.3-\*PP-\*W1

One clamp assembly is consisting of one Round Steel U-Bolt (type RB), one Plastic Pipe Saddle (type RUL) and four Nuts (to DIN EN ISO 4032).

|                                                         |               |
|---------------------------------------------------------|---------------|
| * Clamp Assembly (as listed above)                      | <b>RB+RUL</b> |
| * Exact outside diameter Ø D1 (mm)                      | <b>48.3</b>   |
| * Material of Pipe Saddle (see below)                   | <b>PP</b>     |
| * Material code Carbon Steel, uncoated                  | <b>W1</b>     |
| Carbon Steel, zinc-plated, blue-chromated               | <b>W32</b>    |
| Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) | <b>W5</b>     |

Please note: All items are supplied non-assembled.

### Standard Materials for Plastic Pipe Saddles

**Polypropylene**  
Colour: Green  
Material code: **PP**

**Polyamide**  
Colour: Black  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request.  
Please contact STAUFF for further information.

### Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

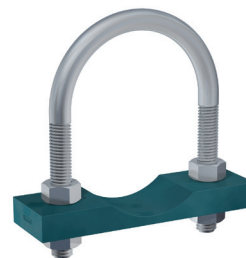
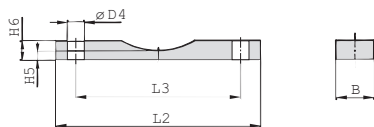
| Diameter<br>Nominal | Outside Diameter<br>Pipe / Tube<br>Ø D1 |       | Nominal<br>Bore<br>Pipe | Dimensions (mm/in)           |       |       |       |      |       |      |          |
|---------------------|-----------------------------------------|-------|-------------------------|------------------------------|-------|-------|-------|------|-------|------|----------|
| DN                  | (mm)                                    | (in)  | (in)                    | Round Steel U-Bolt (Type RB) | A     | L1    | H1    | H2   | H3    | H4   | Thread G |
| 20                  | 25                                      | .98   |                         | 30                           | 40    | 73,5  | 41    | 30   | 17,5  |      | M10      |
|                     |                                         |       |                         |                              | 1.57  | 2.89  | 1.61  | 1.18 | .69   |      |          |
|                     | 26,9                                    | 1.06  | 3/4                     | 1.18                         | 40    | 73,5  | 41    | 30   | 18,5  |      | M10      |
|                     |                                         |       |                         |                              | 1.57  | 2.89  | 1.61  | 1.18 | .73   |      |          |
| 25                  | 30                                      | 1.18  |                         | 38                           | 48    | 81    | 48    | 30   | 20    |      | M10      |
|                     |                                         |       |                         |                              | 1.89  | 3.19  | 1.89  | 1.18 | .79   |      |          |
|                     | 33,7                                    | 1.33  | 1                       | 1.50                         | 48    | 81    | 48    | 30   | 22    |      | M10      |
|                     |                                         |       |                         |                              | 1.89  | 3.19  | 1.89  | 1.18 | .87   |      |          |
| 32                  | 38                                      | 1.50  |                         | 46                           | 56    | 89    | 48    | 30   | 24    |      | M10      |
|                     |                                         |       |                         |                              | 2.20  | 3.50  | 1.89  | 1.18 | .94   |      |          |
|                     | 42,4                                    | 1.69  | 1-1/4                   | 1.81                         | 56    | 89    | 48    | 30   | 26,2  |      | M10      |
|                     |                                         |       |                         |                              | 2.20  | 3.50  | 1.89  | 1.18 | 1.03  |      |          |
| 40                  | 44,5                                    | 1.76  |                         | 52                           | 62    | 100   | 55    | 35   | 27,2  |      | M10      |
|                     |                                         |       |                         |                              | 2.44  | 3.94  | 2.17  | 1.38 | 1.07  |      |          |
|                     | 48,3                                    | 1.90  | 1-1/2                   | 2.05                         | 62    | 100   | 55    | 35   | 29    |      | M10      |
|                     |                                         |       |                         |                              | 2.44  | 3.94  | 2.17  | 1.38 | 1.14  |      |          |
| 50                  | 57                                      | 2.28  |                         | 64                           | 76    | 118   | 63    | 39   | 33,5  |      | M12      |
|                     |                                         |       |                         |                              | 2.99  | 4.65  | 2.48  | 1.54 | 1.32  |      |          |
|                     | 60,3                                    | 2.41  | 2                       | 2.52                         | 76    | 118   | 63    | 39   | 35,2  |      | M12      |
|                     |                                         |       |                         |                              | 2.99  | 4.65  | 2.48  | 1.54 | 1.39  |      |          |
| 65                  | 76,1                                    | 3.04  | 2-1/2                   | 82                           | 94    | 135   | 77    | 39   | 43    |      | M12      |
|                     |                                         |       |                         |                              | 3.23  | 3.70  | 5.31  | 3.03 | 1.54  | 1.69 |          |
| 80                  | 88,9                                    | 3.56  | 3                       | 94                           | 106   | 152   | 82    | 39   | 54,5  |      | M12      |
|                     |                                         |       |                         |                              | 3.70  | 4.17  | 5.98  | 3.23 | 1.54  | 2.15 |          |
| 100                 | 108                                     | 4.32  |                         | 120                          | 136   | 190   | 105   | 47   | 64    |      | M16      |
|                     |                                         |       |                         |                              | 5.35  | 7.48  | 4.13  | 1.85 | 2.52  |      |          |
|                     | 114,3                                   | 4.57  | 4                       | 4.72                         | 136   | 190   | 105   | 47   | 67    |      | M16      |
|                     |                                         |       |                         |                              | 5.35  | 7.48  | 4.13  | 1.85 | 2.64  |      |          |
| 125                 | 133                                     | 5.32  |                         | 148                          | 164   | 217   | 105   | 47   | 76,5  |      | M16      |
|                     |                                         |       |                         |                              | 6.46  | 8.54  | 4.13  | 1.85 | 3.01  |      |          |
|                     | 139,7                                   | 5.59  | 5                       | 5.83                         | 164   | 217   | 105   | 47   | 80    |      | M16      |
|                     |                                         |       |                         |                              | 6.46  | 8.54  | 4.13  | 1.85 | 3.15  |      |          |
| 150                 | 159                                     | 6.36  |                         | 176                          | 192   | 247   | 105   | 47   | 91,5  |      | M16      |
|                     |                                         |       |                         |                              | 7.56  | 9.72  | 4.13  | 1.85 | 3.60  |      |          |
|                     | 168,3                                   | 6.73  | 6                       | 6.93                         | 192   | 247   | 105   | 47   | 96    |      | M16      |
|                     |                                         |       |                         |                              | 7.56  | 9.72  | 4.13  | 1.85 | 3.78  |      |          |
| 175                 | 193,7                                   | 7.75  |                         | 202                          | 218   | 273   | 105   | 47   | 109   |      | M16      |
|                     |                                         |       |                         |                              | 7.96  | 8.58  | 10.75 | 4.13 | 1.85  | 4.29 |          |
| 200                 | 216                                     | 8.64  |                         | 228                          | 248   | 311   | 125   | 55   | 120   |      | M20      |
|                     |                                         |       |                         |                              | 9.76  | 12.24 | 4.92  | 2.17 | 4.72  |      |          |
|                     | 219,1                                   | 8.76  | 8                       | 8.98                         | 248   | 311   | 125   | 55   | 121,5 |      | M20      |
|                     |                                         |       |                         |                              | 9.76  | 12.24 | 4.92  | 2.17 | 4.78  |      |          |
| 250                 | 267                                     | 10.68 |                         | 282                          | 303   | 364   | 125   | 55   | 145,5 |      | M20      |
|                     |                                         |       |                         |                              | 11.93 | 14.33 | 4.92  | 2.17 | 5.73  |      |          |
|                     | 273                                     | 10.92 | 10                      | 11.10                        | 302   | 364   | 125   | 55   | 148,5 |      | M20      |
|                     |                                         |       |                         |                              | 11.89 | 14.33 | 4.92  | 2.17 | 5.85  |      |          |
| 300                 | 318                                     | 12.72 |                         | 332                          | 352   | 418   | 125   | 55   | 174   |      | M20      |
|                     |                                         |       |                         |                              | 13.86 | 16.46 | 4.92  | 2.17 | 6.85  |      |          |
|                     | 323,9                                   | 12.96 | 12                      | 13.07                        | 352   | 418   | 125   | 55   | 177   |      | M20      |
|                     |                                         |       |                         |                              | 13.86 | 16.46 | 4.92  | 2.17 | 6.97  |      |          |
| 350                 | 355,6                                   | 14.22 | 14                      | 378                          | 402   | 475   | 145   | 63   | 193   |      | M24      |
|                     |                                         |       |                         |                              | 15.83 | 18.70 | 5.71  | 2.48 | 7.60  |      |          |
|                     | 368                                     | 14.72 |                         | 14.88                        | 402   | 475   | 145   | 63   | 199   |      | M24      |
|                     |                                         |       |                         |                              | 15.83 | 18.70 | 5.71  | 2.48 | 7.83  |      |          |
| 400                 | 406,4                                   | 16.26 | 16                      | 428                          | 452   | 526   | 145   | 63   | 218   |      | M24      |
|                     |                                         |       |                         |                              | 17.80 | 20.71 | 5.71  | 2.48 | 8.58  |      |          |
|                     | 419                                     | 16.76 |                         | 16.85                        | 452   | 526   | 145   | 63   | 224,5 |      | M24      |
|                     |                                         |       |                         |                              | 17.80 | 20.71 | 5.71  | 2.48 | 8.84  |      |          |
| 500                 | 508                                     | 20.32 | 20                      | 530                          | 554   | 627   | 145   | 63   | 269   |      | M24      |
|                     |                                         |       |                         |                              | 21.81 | 24.69 | 5.71  | 2.48 | 10.59 |      |          |
|                     | 521                                     | 20.84 |                         | 20.87                        | 554   | 627   | 145   | 63   | 276   |      | M24      |
|                     |                                         |       |                         |                              | 21.81 | 24.69 | 5.71  | 2.48 | 10.87 |      |          |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





## Round Steel U-Bolt with Plastic Pipe Saddle (Long) Type RB+RUL



Plastic Pipe Saddle (type RUL)

| Diameter<br>Nominal | Outside Diameter<br>Pipe / Tube<br>Ø D1 |       | Nominal<br>Bore<br>Pipe | Dimensions (mm/in)             |       |       |      |     |      |      |
|---------------------|-----------------------------------------|-------|-------------------------|--------------------------------|-------|-------|------|-----|------|------|
| DN                  | (mm)                                    | (in)  | (in)                    | Plastic Pipe Saddle (Type RUL) |       |       |      |     |      |      |
|                     |                                         |       |                         | A                              | L2    | L3    | B    | H5  | H6   | Ø D4 |
| 20                  | 25                                      | .98   |                         | 30                             | 75    | 40    | 30   | 5   | 12   | 11   |
|                     |                                         |       |                         |                                | 2.95  | 1.57  | 1.18 | .20 | .47  | .43  |
|                     | 26,9                                    | 1.06  | 3/4                     | 1.18                           | 75    | 40    | 30   | 5   | 12   | 11   |
|                     |                                         |       |                         |                                | 2.95  | 1.57  | 1.18 | .20 | .47  | .43  |
| 25                  | 30                                      | 1.18  |                         | 38                             | 80    | 48    | 30   | 5   | 12   | 11   |
|                     |                                         |       |                         |                                | 3.15  | 1.89  | 1.18 | .20 | .47  | .43  |
|                     | 33,7                                    | 1.33  | 1                       | 1.50                           | 80    | 48    | 30   | 5   | 12   | 11   |
|                     |                                         |       |                         |                                | 3.15  | 1.89  | 1.18 | .20 | .47  | .43  |
| 32                  | 38                                      | 1.50  |                         | 46                             | 90    | 56    | 30   | 5   | 12   | 11   |
|                     |                                         |       |                         |                                | 3.54  | 2.20  | 1.18 | .20 | .47  | .43  |
|                     | 42,4                                    | 1.69  | 1-1/4                   | 1.81                           | 90    | 56    | 30   | 5   | 12   | 11   |
|                     |                                         |       |                         |                                | 3.54  | 2.20  | 1.18 | .20 | .47  | .43  |
| 40                  | 44,5                                    | 1.76  |                         | 52                             | 95    | 62    | 35   | 5   | 15   | 11   |
|                     |                                         |       |                         |                                | 3.74  | 2.44  | 1.38 | .20 | .59  | .43  |
|                     | 48,3                                    | 1.90  | 1-1/2                   | 2.05                           | 95    | 62    | 35   | 5   | 15   | 11   |
|                     |                                         |       |                         |                                | 3.74  | 2.44  | 1.38 | .20 | .59  | .43  |
| 50                  | 57                                      | 2.28  |                         | 64                             | 110   | 76    | 35   | 5   | 15   | 14   |
|                     |                                         |       |                         |                                | 4.33  | 2.99  | 1.38 | .20 | .59  | .55  |
|                     | 60,3                                    | 2.41  | 2                       | 2.52                           | 110   | 76    | 35   | 5   | 15   | 14   |
|                     |                                         |       |                         |                                | 4.33  | 2.99  | 1.38 | .20 | .59  | .55  |
| 65                  | 76,1                                    | 3.04  | 2-1/2                   | 82                             | 135   | 94    | 35   | 5   | 15   | 14   |
|                     |                                         |       |                         | 3.23                           | 5.31  | 3.70  | 1.38 | .20 | .59  | .55  |
| 80                  | 88,9                                    | 3.56  | 3                       | 94                             | 145   | 106   | 40   | 10  | 20   | 14   |
|                     |                                         |       |                         | 3.70                           | 5.71  | 4.17  | 1.57 | .39 | .79  | .55  |
| 100                 | 108                                     | 4.32  |                         | 120                            | 190   | 136   | 40   | 10  | 20   | 18   |
|                     |                                         |       |                         |                                | 7.48  | 5.35  | 1.57 | .39 | .79  | .71  |
|                     | 114,3                                   | 4.57  | 4                       | 4.72                           | 190   | 136   | 40   | 10  | 20   | 18   |
|                     |                                         |       |                         |                                | 7.48  | 5.35  | 1.57 | .39 | .79  | .71  |
| 125                 | 133                                     | 5.32  |                         | 148                            | 220   | 164   | 40   | 10  | 20   | 18   |
|                     |                                         |       |                         |                                | 8.66  | 6.46  | 1.57 | .39 | .79  | .71  |
|                     | 139,7                                   | 5.59  | 5                       | 5.83                           | 220   | 164   | 40   | 10  | 20   | 18   |
|                     |                                         |       |                         |                                | 8.66  | 6.46  | 1.57 | .39 | .79  | .71  |
| 150                 | 159                                     | 6.36  |                         | 176                            | 250   | 192   | 50   | 12  | 25   | 18   |
|                     |                                         |       |                         |                                | 9.84  | 7.56  | 1.97 | .47 | .98  | .71  |
|                     | 168,3                                   | 6.73  | 6                       | 6.93                           | 250   | 192   | 50   | 12  | 25   | 18   |
|                     |                                         |       |                         |                                | 9.84  | 7.56  | 1.97 | .47 | .98  | .71  |
| 175                 | 193,7                                   | 7.75  |                         | 202                            | 270   | 218   | 50   | 12  | 25   | 18   |
|                     |                                         |       |                         | 7.96                           | 10.63 | 8.58  | 1.97 | .47 | .98  | .71  |
| 200                 | 216                                     | 8.64  |                         | 228                            | 315   | 248   | 50   | 12  | 25   | 22   |
|                     |                                         |       |                         |                                | 12.40 | 9.76  | 1.97 | .47 | .98  | .87  |
|                     | 219,1                                   | 8.76  | 8                       | 8.98                           | 315   | 248   | 50   | 12  | 25   | 22   |
|                     |                                         |       |                         |                                | 12.40 | 9.76  | 1.97 | .47 | .98  | .87  |
| 250                 | 267                                     | 10.68 |                         | 282                            | 370   | 302   | 50   | 12  | 25   | 22   |
|                     |                                         |       |                         |                                | 14.57 | 11.89 | 1.97 | .47 | .98  | .87  |
|                     | 273                                     | 10.92 | 10                      | 11.10                          | 370   | 302   | 50   | 12  | 25   | 22   |
|                     |                                         |       |                         |                                | 14.57 | 11.89 | 1.97 | .47 | .98  | .87  |
| 300                 | 318                                     | 12.72 |                         | 332                            | 420   | 352   | 60   | 15  | 30   | 22   |
|                     |                                         |       |                         |                                | 16.54 | 13.86 | 2.36 | .59 | 1.18 | .87  |
|                     | 323,9                                   | 12.96 | 12                      | 13.07                          | 420   | 352   | 60   | 15  | 30   | 22   |
|                     |                                         |       |                         |                                | 16.54 | 13.86 | 2.36 | .59 | 1.18 | .87  |
| 350                 | 355,6                                   | 14.22 | 14                      | 378                            | 480   | 402   | 60   | 15  | 30   | 26   |
|                     |                                         |       |                         |                                | 18.90 | 15.83 | 2.36 | .59 | 1.18 | 1.02 |
|                     | 368                                     | 14.72 |                         | 14.88                          | 480   | 402   | 60   | 15  | 30   | 26   |
|                     |                                         |       |                         |                                | 18.90 | 15.83 | 2.36 | .59 | 1.18 | 1.02 |
| 400                 | 406,4                                   | 16.26 | 16                      | 428                            | 540   | 452   | 60   | 15  | 30   | 26   |
|                     |                                         |       |                         |                                | 21.26 | 17.80 | 2.36 | .59 | 1.18 | 1.02 |
|                     | 419                                     | 16.76 |                         | 16.85                          | 540   | 452   | 60   | 15  | 30   | 26   |
|                     |                                         |       |                         |                                | 21.26 | 17.80 | 2.36 | .59 | 1.18 | 1.02 |
| 500                 | 508                                     | 20.32 | 20                      | 530                            | 640   | 554   | 60   | 15  | 30   | 26   |
|                     |                                         |       |                         |                                | 25.20 | 21.81 | 2.36 | .59 | 1.18 | 1.02 |
|                     | 521                                     | 20.84 |                         | 20.87                          | 640   | 554   | 60   | 15  | 30   | 26   |
|                     |                                         |       |                         |                                | 25.20 | 21.81 | 2.36 | .59 | 1.18 | 1.02 |

### Ordering Codes

#### Round Steel U-Bolt \*RB-\*A-52-\*W1-\*COMPL

One Round Steel U-Bolt (type RB) includes four Nuts (to DIN EN ISO 4032).

|                      |                                                                        |
|----------------------|------------------------------------------------------------------------|
| * Round Steel U-Bolt | RB                                                                     |
| * Dimension A (mm)   | A-52                                                                   |
| * Material code      | Carbon Steel, uncoated<br>Carbon Steel, zinc-plated,<br>blue-chromated |
|                      | W1<br>W32                                                              |
|                      | Stainless Steel V4A<br>1.4401 / 1.4571 (AISI 316 / 316 Ti)             |
|                      | W5                                                                     |

#### only Plastic Pipe Saddle \*RUL-\*48.3-\*PP

|                                       |      |
|---------------------------------------|------|
| * Plastic Pipe Saddle (Long)          | RUL  |
| * Exact outside diameter Ø D1 (mm)    | 48.3 |
| * Material of Pipe Saddle (see below) | PP   |

### Standard Materials for Plastic Pipe Saddles

**Polypropylene**  
Colour: Green  
Material code: **PP**

**Polyamide**  
Colour: Black  
Material code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative materials are available upon request. Please contact STAUFF for further information.

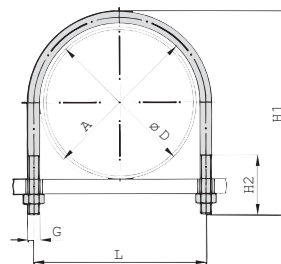
### Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Round Steel U-Bolt (without Plastic Pipe Saddle) Type RBD (DIN 3570, Type A)



Round Steel U-Bolt (type RBD)

### Ordering Codes

#### Clamp Assembly \*RBD-\*A-30-\*W1-\*COMPL

One clamp assembly is consisting of one Round Steel U-Bolt (type RBD according to DIN 3570, Type A) and two Nuts (to DIN EN ISO 4032).

\* Clamp Assembly (as listed above) **RBD**

\* Dimension A (mm) **A-30**

\* Material code Carbon Steel, uncoated **W1**  
Carbon Steel, zinc-plated, blue-chromated **W32**

Stainless Steel V4A **W5**  
1.4401 / 1.4571 (AISI 316 / 316 Ti)

Please note: All items are supplied non-assembled.

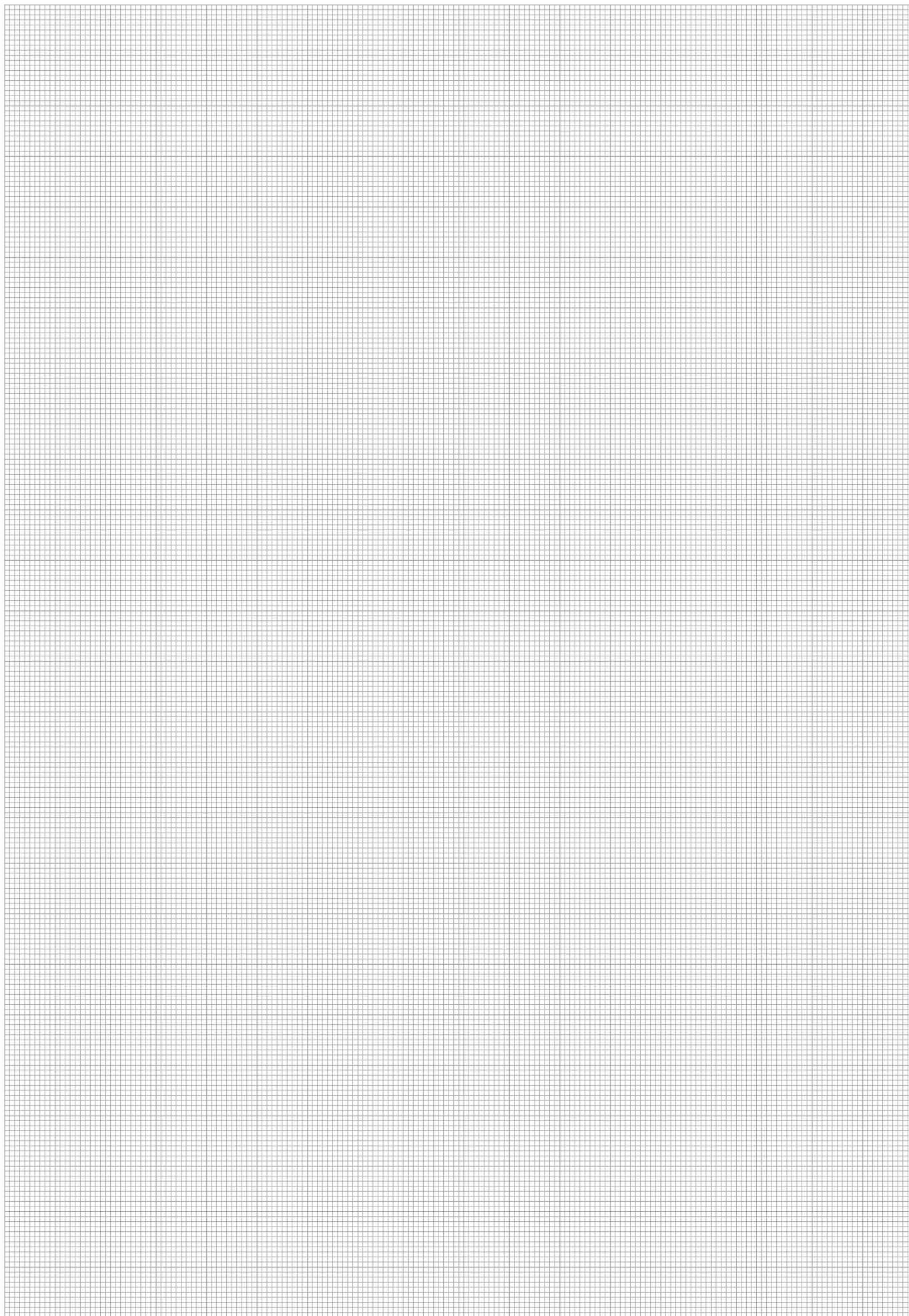
### Applications

- Standing or hanging installation of pipes and tubes on beams, profiles and consoles
- Design with two threaded ends allows for ideal adaptation to suit the exact outer diameter of the pipe or tube

| Diameter Nominal<br>DN | Outside Diameter Pipe / Tube<br>Ø D1 (mm) (in) |       | Nominal Bore Pipe (in) | Dimensions (mm/in)            |       |       |      |          |
|------------------------|------------------------------------------------|-------|------------------------|-------------------------------|-------|-------|------|----------|
|                        |                                                |       |                        | Round Steel U-Bolt (Type RBD) |       |       |      |          |
|                        |                                                |       |                        | A                             | L     | H1    | H2   | Thread G |
|                        |                                                |       |                        |                               |       |       |      |          |
| 20                     | 25                                             | .98   | 3/4                    | 30                            | 40    | 70    | 40   | M10      |
|                        | 26,9                                           | 1.06  |                        | 1.18                          | 1.57  | 2.76  | 1.57 | M10      |
| 25                     | 30                                             | 1.18  | 1                      | 38                            | 48    | 76    | 40   | M10      |
|                        | 33,7                                           | 1.33  |                        | 1.50                          | 1.89  | 2.99  | 1.57 | M10      |
| 32                     | 38                                             | 1.50  | 1-1/4                  | 46                            | 56    | 86    | 50   | M10      |
|                        | 42,4                                           | 1.69  |                        | 1.81                          | 2.20  | 3.39  | 1.97 | M10      |
| 40                     | 44,5                                           | 1.76  | 1-1/2                  | 52                            | 62    | 92    | 50   | M10      |
|                        | 48,3                                           | 1.90  |                        | 2.05                          | 2.44  | 3.62  | 1.97 | M10      |
| 50                     | 57                                             | 2.28  | 2                      | 64                            | 76    | 109   | 50   | M12      |
|                        | 60,3                                           | 2.41  |                        | 2.52                          | 2.99  | 4.29  | 1.97 | M12      |
| 65                     | 76,1                                           | 3.04  | 2-1/2                  | 82                            | 94    | 125   | 50   | M12      |
| 80                     | 88,9                                           | 3.56  | 3                      | 94                            | 106   | 138   | 50   | M12      |
| 100                    | 108                                            | 4.32  | 4                      | 120                           | 136   | 171   | 60   | M16      |
|                        | 114,3                                          | 4.57  |                        | 4.72                          | 5.35  | 6.73  | 2.36 | M16      |
| 125                    | 133                                            | 5.32  | 5                      | 148                           | 164   | 191   | 60   | M16      |
|                        | 139,7                                          | 5.59  |                        | 5.83                          | 6.46  | 7.52  | 2.36 | M16      |
| 150                    | 159                                            | 6.36  | 6                      | 176                           | 192   | 217   | 60   | M16      |
|                        | 168,3                                          | 6.73  |                        | 6.93                          | 7.56  | 8.54  | 2.36 | M16      |
| 175                    | 193,7                                          | 7.75  | 8                      | 202                           | 218   | 249   | 60   | M16      |
| 200                    | 216                                            | 8.64  |                        | 228                           | 248   | 283   | 70   | M20      |
|                        | 219,1                                          | 8.76  |                        | 8.98                          | 9.76  | 11.14 | 2.76 | M20      |
| 250                    | 267                                            | 10.68 | 10                     | 282                           | 303   | 334   | 70   | M20      |
|                        | 273                                            | 10.92 |                        | 11.10                         | 11.93 | 13.15 | 2.76 | M20      |
| 300                    | 318                                            | 12.72 | 12                     | 332                           | 352   | 385   | 70   | M20      |
|                        | 323,9                                          | 12.96 |                        | 13.07                         | 13.86 | 15.16 | 2.76 | M20      |
| 350                    | 355,6                                          | 14.22 | 14                     | 378                           | 402   | 435   | 70   | M24      |
|                        | 368                                            | 14.72 |                        | 14.88                         | 15.83 | 17.13 | 2.76 | M24      |
| 400                    | 406,4                                          | 16.26 | 16                     | 428                           | 452   | 487   | 70   | M24      |
|                        | 419                                            | 16.76 |                        | 16.85                         | 17.80 | 19.17 | 2.76 | M24      |
| 500                    | 508                                            | 20.32 | 20                     | 530                           | 554   | 589   | 70   | M24      |
|                        | 521                                            | 20.84 |                        | 20.87                         | 21.81 | 23.19 | 2.76 | M24      |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.











**Metal Pipe Clamp with Tension Clearance  
Two-Bolt Design**  
DIN 3567-A

136



**Metal Pipe Clamp with Tension Clearance  
Three-Bolt Design (Extended to One Side)**  
DIN 3567-B

137



**Heavy Saddle with Tension Clearance  
Single-Bolt Design**  
DIN 1592

138



**Heavy Saddle with Tension Clearance  
Two-Bolt Design**  
DIN 1593

139



**Light Saddle with Tension Clearance  
Single-Bolt Design**  
DIN 1596

140



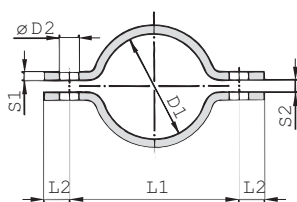
**Light Saddle with Tension Clearance  
Two-Bolt Design**  
DIN 1597

141





## Metal Pipe Clamp with Tension Clearance (DIN 3567-A) Two-Bolt Design



### Ordering Codes

#### Metal Pipe Clamp \*DIN3567-A\*-20\*W1

One metal pipe clamp is consisting of two clamp halves.  
Hexagon head bolts and nuts are not included.

\* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

\* STAUFF Group (Ø D1) **-20**

\* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

#### Clamp Assembly \*DIN3567-A\*-20\*W1\*COMPL

One clamp assembly is consisting of two clamp halves,  
two hexagon head bolts and two hexagon head nuts.

\* Metal Pipe Clamp to DIN 3567, type A **DIN3567-A**

\* STAUFF Group (Ø D1) **-20**

\* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

\* Clamp assembly with bolts and nuts **COMPL**

Please note: All items are supplied non-assembled.

### Applications

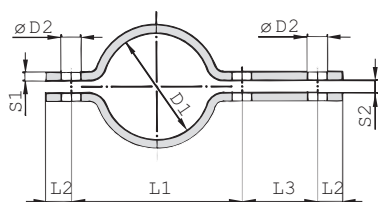
- Installation of pipes, tubes and other construction elements on beams, profiles and consoles

| STAUFF Group | Nominal Size |           | Dimensions (mm/in) |      |     |     |      |      | Accessories                                         |
|--------------|--------------|-----------|--------------------|------|-----|-----|------|------|-----------------------------------------------------|
|              | Ø D1         | Pipe (in) | L1                 | L2   | S1  | S2  | D2   | B1   | Hexagon Head Bolts (Hexagon Head Nuts)              |
| 20           | 15           |           | 57                 | 15   | 5   | 7   | 11.5 | 30   | M10 x 30 (M10)<br>3/8-16 UNC x 1-1/4 (3/8-16 UNC)   |
|              |              |           | 2.24               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 22           |              |           | 59                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.32               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 25           | 20           |           | 62                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.44               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 27           |              | 3/4       | 66                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.60               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 30           | 25           |           | 68                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.68               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 34           |              | 1         | 72                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.83               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 38           | 32           |           | 76                 | 15   | 5   | 7   | 11.5 | 30   | M12 x 35 (M12)<br>7/16-14 UNC x 1-3/8 (7/16-14 UNC) |
|              |              |           | 2.99               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 43           |              | 1-1/4     | 82                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 3.23               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 45           | 40           |           | 84                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 3.31               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 49           |              | 1-1/2     | 88                 | 15   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 3.46               | .59  | .20 | .28 | .45  | 1.18 |                                                     |
| 57           | 50           |           | 104                | 18   | 6   | 9   | 14   | 40   |                                                     |
|              |              |           | 4.09               | .71  | .24 | .35 | .55  | 1.57 |                                                     |
| 61           |              | 2         | 108                | 18   | 6   | 9   | 14   | 40   | M16 x 45 (M16)<br>5/8-11 UNC x 1-3/4 (5/8-11 UNC)   |
|              |              |           | 4.25               | .71  | .24 | .35 | .55  | 1.57 |                                                     |
| 77           | 65           | 2-1/2     | 122                | 18   | 6   | 9   | 14   | 40   |                                                     |
|              |              |           | 4.80               | .71  | .24 | .35 | .55  | 1.57 |                                                     |
| 89           | 80           | 3         | 136                | 18   | 6   | 9   | 14   | 40   |                                                     |
|              |              |           | 5.35               | .71  | .24 | .35 | .55  | 1.57 |                                                     |
| 108          | 100          |           | 172                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 6.77               | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 115          |              | 4         | 178                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 7.01               | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 133          | 125          |           | 196                | 24   | 8   | 11  | 18   | 50   | M20 x 50 (M20)<br>3/4-10 UNC x 2 (3/4-10 UNC)       |
|              |              |           | 7.72               | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 140          |              |           | 204                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 8.03               | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 159          | 150          |           | 222                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 8.74               | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 169          |              |           | 232                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 9.13               | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 194          | 175          |           | 258                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 10.16              | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 216          | 200          |           | 280                | 24   | 8   | 11  | 18   | 50   | M24 x 60 (M24)<br>7/8-9 UNC 2-3/8 (7/8-9 UNC)       |
|              |              |           | 11.02              | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 220          |              |           | 284                | 24   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 11.18              | .94  | .31 | .43 | .71  | 1.97 |                                                     |
| 267          | 250          |           | 342                | 30   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 13.46              | 1.18 | .31 | .55 | .91  | 2.36 |                                                     |
| 273          |              |           | 348                | 30   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 13.70              | 1.18 | .31 | .55 | .91  | 2.36 |                                                     |
| 318          | 300          |           | 392                | 30   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 15.43              | 1.18 | .31 | .55 | .91  | 2.36 |                                                     |
| 324          |              |           | 398                | 30   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 15.67              | 1.18 | .31 | .55 | .91  | 2.36 |                                                     |
| 368          | 350          |           | 444                | 30   | 8   | 14  | 23   | 60   | M24 x 60 (M24)<br>7/8-9 UNC 2-3/8 (7/8-9 UNC)       |
|              |              |           | 17.48              | 1.18 | .31 | .55 | .91  | 2.36 |                                                     |
| 407          | 400          |           | 498                | 36   | 10  | 18  | 27   | 70   |                                                     |
|              |              |           | 19.61              | 1.42 | .39 | .71 | 1.06 | 2.76 |                                                     |
| 419          |              |           | 510                | 36   | 10  | 18  | 27   | 70   |                                                     |
|              |              |           | 10.08              | 1.42 | .39 | .71 | 1.06 | 2.76 |                                                     |
| 521          | 500          |           | 614                | 36   | 10  | 18  | 27   | 70   |                                                     |
|              |              |           | 24.17              | 1.42 | .39 | .71 | 1.06 | 2.76 |                                                     |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Metal Pipe Clamp with Tension Clearance (DIN 3567-B) Three-Bolt Design (Extended to One Side)



| STAUFF Group | Nominal Size |           | Dimensions (mm/m) |      |      |     |     |      |      | Accessories                                         |
|--------------|--------------|-----------|-------------------|------|------|-----|-----|------|------|-----------------------------------------------------|
|              | Ø D1         | Pipe (in) | L1                | L2   | L3   | S1  | S2  | D2   | B1   | Hexagon Head Bolts (Hexagon Head Nuts)              |
| 20           | 15           |           | 57                | 15   | 46   | 5   | 7   | 11.5 | 30   | M10 x 30 (M10)<br>3/8-16 UNC x 1-1/4 (3/8-16 UNC)   |
| 22           |              |           | 2.24              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
|              |              |           | 59                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.32              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 25           | 20           |           | 62                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.44              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 27           |              | 3/4       | 66                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.60              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 30           | 25           |           | 68                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.68              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 34           |              | 1         | 72                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 2.83              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 38           | 32           |           | 76                | 15   | 46   | 5   | 7   | 11.5 | 30   | M12 x 35 (M12)<br>7/16-14 UNC x 1-3/8 (7/16-14 UNC) |
|              |              |           | 2.99              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 43           |              | 1-1/4     | 82                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 3.23              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 45           | 40           |           | 84                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 3.31              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 49           |              | 1-1/2     | 88                | 15   | 46   | 5   | 7   | 11.5 | 30   |                                                     |
|              |              |           | 3.46              | .59  | 1.81 | .20 | .28 | .45  | 1.18 |                                                     |
| 57           | 50           |           | 104               | 18   | 54   | 6   | 9   | 14   | 40   |                                                     |
|              |              |           | 4.09              | .71  | 2.13 | .24 | .35 | .55  | 1.57 |                                                     |
| 61           |              | 2         | 108               | 18   | 54   | 6   | 9   | 14   | 40   |                                                     |
|              |              |           | 4.25              | .71  | 2.13 | .24 | .35 | .55  | 1.57 |                                                     |
| 77           | 65           | 2-1/2     | 122               | 18   | 54   | 6   | 9   | 14   | 40   | M16 x 45 (M16)<br>5/8-11 UNC x 1-3/4 (5/8-11 UNC)   |
|              |              |           | 4.80              | .71  | 2.13 | .24 | .35 | .55  | 1.57 |                                                     |
| 89           | 80           | 3         | 136               | 18   | 54   | 6   | 9   | 14   | 40   |                                                     |
|              |              |           | 5.35              | .71  | 2.13 | .24 | .35 | .55  | 1.57 |                                                     |
| 108          | 100          |           | 172               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 6.77              | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 115          |              | 4         | 178               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 7.01              | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 133          | 125          |           | 196               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 7.72              | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 140          |              |           | 204               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 8.03              | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 159          | 150          |           | 222               | 24   | 70   | 8   | 11  | 18   | 50   | M20 x 50 (M20)<br>3/4-10 UNC x 2 (3/4-10 UNC)       |
|              |              |           | 8.74              | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 169          |              |           | 232               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 9.13              | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 194          | 175          |           | 258               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 10.16             | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 216          | 200          |           | 280               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 11.02             | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 220          |              |           | 284               | 24   | 70   | 8   | 11  | 18   | 50   |                                                     |
|              |              |           | 11.18             | .94  | 2.76 | .31 | .43 | .71  | 1.97 |                                                     |
| 267          | 250          |           | 342               | 30   | 86   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 13.46             | 1.18 | 3.39 | .31 | .55 | .91  | 2.36 |                                                     |
| 273          |              |           | 348               | 30   | 86   | 8   | 14  | 23   | 60   | M24 x 60 (M24)<br>7/8-9 UNC 2-3/8 (7/8-9 UNC)       |
|              |              |           | 13.70             | 1.18 | 3.39 | .31 | .55 | .91  | 2.36 |                                                     |
| 318          | 300          |           | 392               | 30   | 86   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 15.43             | 1.18 | 3.39 | .31 | .55 | .91  | 2.36 |                                                     |
| 324          |              |           | 398               | 30   | 86   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 15.67             | 1.18 | 3.39 | .31 | .55 | .91  | 2.36 |                                                     |
| 368          | 350          |           | 444               | 30   | 86   | 8   | 14  | 23   | 60   |                                                     |
|              |              |           | 17.48             | 1.18 | 3.39 | .31 | .55 | .91  | 2.36 |                                                     |
| 407          | 400          |           | 498               | 36   | 104  | 10  | 18  | 27   | 70   |                                                     |
|              |              |           | 19.61             | 1.42 | 4.09 | .39 | .71 | 1.06 | 2.76 |                                                     |
| 419          |              |           | 510               | 36   | 104  | 10  | 18  | 27   | 70   |                                                     |
|              |              |           | 10.08             | 1.42 | 4.09 | .39 | .71 | 1.06 | 2.76 |                                                     |
| 521          | 500          |           | 614               | 36   | 104  | 10  | 18  | 27   | 70   |                                                     |
|              |              |           | 24.17             | 1.42 | 4.09 | .39 | .71 | 1.06 | 2.76 |                                                     |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

### Ordering Codes

#### Metal Pipe Clamp

**\*DIN3567-B\*-20\*W1**

One metal pipe clamp is consisting of two clamp halves.  
Hexagon head bolts and nuts are not included.

\* Metal Pipe Clamp to DIN 3567, type B **DIN3567-B**

\* STAUFF Group (Ø D1) **-20**

\* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

#### Clamp Assembly \*DIN3567-B\*-20\*W1\*COMPL

One clamp assembly is consisting of two clamp halves,  
three hexagon head bolts and three hexagon head nuts.

\* Metal Pipe Clamp to DIN 3567, type B **DIN3567-B**

\* STAUFF Group (Ø D1) **-20**

\* Material code Carbon Steel, uncoated **W1**

Carbon Steel, hot-dip galvanised **W40**

Stainless Steel V4A **W5**

1.4401 / 1.4571 (AISI 316 / 316 Ti)

\* Clamp assembly with bolts and nuts **COMPL**

Please note: All items are supplied non-assembled.

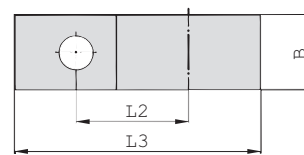
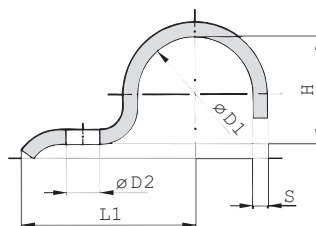
### Applications

- Installation of pipes, tubes and other construction elements on beams, profiles and consoles



## Heavy Saddle with Tension Clearance (DIN 1592)

### Single-Bolt Design



### Ordering Codes

#### Heavy Saddle

**\*DIN1592-\*7-\*W66**

\* Heavy Saddle to DIN 1592

**DIN1592**

\* STAUFF Group (Ø D1)

**7**

\* Material code Carbon Steel, uncoated

**W1**

Carbon Steel, zinc-plated  
and thick-film passivated

**W66**

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

**W5**

### Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

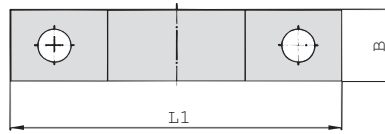
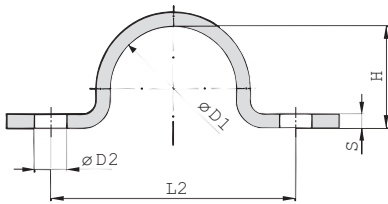
| STAUFF Group | Diameter Range |             | Dimensions (mm/in) |      |      |       |      |     |      |     |
|--------------|----------------|-------------|--------------------|------|------|-------|------|-----|------|-----|
|              | Ø D1           | (mm)        | (in)               | L1   | L2   | L3    | H    | D2  | B    | S   |
| <b>7</b>     | 5,5 ... 7      | 5,5 ... 7   | .22 ... .28        | 22   | 14   | 27,5  | 5    | 6,6 | 16   | 2   |
|              |                |             |                    | .87  | .55  | 1.08  | .20  | .26 | .63  | .08 |
| <b>9</b>     | 7 ... 9        | 7 ... 9     | .28 ... .35        | 27   | 18   | 33,5  | 6    | 6,6 | 20   | 2   |
|              |                |             |                    | 1.06 | .71  | 1.32  | .24  | .26 | .79  | .08 |
| <b>13</b>    | 9,5 ... 13     | 9,5 ... 13  | .39 ... .51        | 40   | 25   | 49,5  | 9    | 11  | 25   | 3   |
|              |                |             |                    | 1.57 | .98  | 1.95  | .35  | .43 | .98  | .12 |
| <b>15,5</b>  | 13 ... 15,5    | 13 ... 15,5 | .51 ... .61        | 41   | 26   | 52    | 12   | 11  | 25   | 3   |
|              |                |             |                    | 1.61 | 1.02 | 2.05  | .47  | .43 | .98  | .12 |
| <b>19</b>    | 15,5 ... 19    | 15,5 ... 19 | .61 ... .75        | 43   | 28   | 55,5  | 15   | 11  | 25   | 3   |
|              |                |             |                    | 1.69 | 1.10 | 2.19  | .59  | .43 | .98  | .12 |
| <b>23</b>    | 20 ... 23      | 20 ... 23   | .79 ... .91        | 51   | 35   | 67    | 19   | 14  | 30   | 5   |
|              |                |             |                    | 2.01 | 1.38 | 2.64  | .75  | .55 | 1.18 | .20 |
| <b>26</b>    | 23 ... 26      | 23 ... 26   | .91 ... 1.02       | 52   | 36   | 70    | 22   | 14  | 30   | 5   |
|              |                |             |                    | 2.05 | 1.42 | 2.76  | .87  | .55 | 1.18 | .20 |
| <b>28,5</b>  | 26 ... 28,5    | 26 ... 28,5 | 1.02 ... 1.12      | 53   | 37   | 73    | 24   | 14  | 30   | 5   |
|              |                |             |                    | 2.09 | 1.46 | 2.87  | .94  | .55 | 1.18 | .20 |
| <b>31</b>    | 28,5 ... 31    | 28,5 ... 31 | 1.12 ... 1.22      | 55   | 39   | 75,5  | 27   | 14  | 30   | 5   |
|              |                |             |                    | 2.17 | 1.54 | 2.97  | 1.06 | .55 | 1.18 | .20 |
| <b>36</b>    | 33 ... 36      | 33 ... 36   | 1.30 ... 1.42      | 57   | 41   | 81    | 32   | 14  | 40   | 5   |
|              |                |             |                    | 2.24 | 1.61 | 3.19  | 1.26 | .55 | 1.57 | .20 |
| <b>39</b>    | 36 ... 39      | 36 ... 39   | 1.42 ... 1.54      | 59   | 43   | 83,5  | 34   | 14  | 40   | 5   |
|              |                |             |                    | 2.32 | 1.69 | 3.29  | 1.34 | .55 | 1.57 | .20 |
| <b>43</b>    | 39 ... 43      | 39 ... 43   | 1.54 ... 1.69      | 68   | 48   | 94,5  | 38   | 18  | 40   | 5   |
|              |                |             |                    | 2.68 | 1.89 | 3.72  | 1.50 | .71 | 1.57 | .20 |
| <b>46</b>    | 43 ... 46      | 43 ... 46   | 1.69 ... 1.81      | 70   | 50   | 98    | 41   | 18  | 40   | 5   |
|              |                |             |                    | 2.76 | 1.97 | 3.86  | 1.61 | .71 | 1.57 | .20 |
| <b>49</b>    | 46 ... 49      | 46 ... 49   | 1.81 ... 1.93      | 73   | 53   | 105,5 | 44   | 18  | 40   | 8   |
|              |                |             |                    | 2.87 | 2.09 | 4.15  | 1.73 | .71 | 1.57 | .31 |
| <b>52 *</b>  | 49 ... 52      | 49 ... 52   | 1.93 ... 2.05      | 76   | 56   | 110   | 47   | 18  | 40   | 8   |
|              |                |             |                    | 2.99 | 2.20 | 4.33  | 1.85 | .71 | 1.57 | .31 |
| <b>58</b>    | 53 ... 58      | 53 ... 58   | 2.09 ... 2.28      | 78   | 58   | 115   | 52   | 18  | 40   | 8   |
|              |                |             |                    | 3.07 | 2.28 | 4.53  | 2.05 | .71 | 1.57 | .31 |
| <b>61</b>    | 58 ... 61      | 58 ... 61   | 2.28 ... 2.40      | 80   | 60   | 118,5 | 57   | 18  | 40   | 8   |
|              |                |             |                    | 3.15 | 2.36 | 4.67  | 2.24 | .71 | 1.57 | .31 |

\* Similar to DIN 1592.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Heavy Saddle with Tension Clearance (DIN 1593) Two-Bolt Design



| STAUFF Group | Diameter Range |               | Dimensions (mm/in) |      |      |     |      |     |
|--------------|----------------|---------------|--------------------|------|------|-----|------|-----|
|              | Ø D1           | (mm) (in)     | L1                 | L2   | H    | D2  | B    | S   |
| 7            | 5,5 ... 7      | .22 ... .28   | 44                 | 28   | 5    | 6,6 | 16   | 2   |
|              |                |               | 1.73               | 1.10 | .20  | .26 | .63  | .08 |
| 9            | 7 ... 9        | .28 ... .35   | 48                 | 32   | 6    | 6,6 | 20   | 2   |
|              |                |               | 1.89               | 1.26 | .24  | .26 | .79  | .08 |
| 13           | 9,5 ... 13     | .39 ... .51   | 52                 | 36   | 9    | 6,6 | 20   | 2   |
|              |                |               | 2.05               | 1.42 | .35  | .26 | .79  | .08 |
| 15,5         | 13 ... 15,5    | .51 ... .61   | 56                 | 40   | 12   | 6,6 | 20   | 2   |
|              |                |               | 2.20               | 1.57 | .47  | .26 | .79  | .08 |
| 19           | 15,5 ... 19    | .61 ... .75   | 60                 | 44   | 15   | 6,6 | 20   | 2   |
|              |                |               | 2.36               | 1.73 | .59  | .26 | .79  | .08 |
| 23           | 20 ... 23      | .79 ... .91   | 82                 | 56   | 19   | 11  | 25   | 3   |
|              |                |               | 3.23               | 2.20 | .75  | .43 | .98  | .12 |
| 26           | 23 ... 26      | .91 ... 1.02  | 84                 | 58   | 22   | 11  | 25   | 3   |
|              |                |               | 3.31               | 2.28 | .87  | .43 | .98  | .12 |
| 28,5         | 26 ... 28,5    | 1.02 ... 1.12 | 90                 | 64   | 24   | 11  | 25   | 3   |
|              |                |               | 3.54               | 2.52 | .94  | .43 | .98  | .12 |
| 31           | 28,5 ... 31    | 1.12 ... 1.22 | 90                 | 64   | 27   | 11  | 25   | 3   |
|              |                |               | 3.54               | 2.52 | 1.06 | .43 | .98  | .12 |
| 36           | 33 ... 36      | 1.30 ... 1.42 | 106                | 80   | 32   | 11  | 30   | 5   |
|              |                |               | 4.17               | 3.15 | 1.26 | .43 | 1.18 | .20 |
| 39           | 36 ... 39      | 1.42 ... 1.54 | 110                | 84   | 34   | 11  | 30   | 5   |
|              |                |               | 4.33               | 3.31 | 1.34 | .43 | 1.18 | .20 |
| 43           | 39 ... 43      | 1.54 ... 1.69 | 120                | 88   | 38   | 14  | 30   | 5   |
|              |                |               | 4.72               | 3.46 | 1.50 | .55 | 1.18 | .20 |
| 46           | 43 ... 46      | 1.69 ... 1.81 | 122                | 90   | 41   | 14  | 30   | 5   |
|              |                |               | 4.80               | 3.54 | 1.61 | .55 | 1.18 | .20 |
| 49           | 46 ... 49      | 1.81 ... 1.93 | 122                | 90   | 44   | 14  | 30   | 5   |
|              |                |               | 4.80               | 3.54 | 1.73 | .55 | 1.18 | .20 |
| 58           | 53 ... 58      | 2.09 ... 2.28 | 142                | 110  | 52   | 14  | 40   | 5   |
|              |                |               | 5.59               | 4.33 | 2.05 | .55 | 1.57 | .20 |
| 61           | 58 ... 61      | 2.28 ... 2.40 | 142                | 110  | 57   | 14  | 40   | 5   |
|              |                |               | 5.59               | 4.33 | 2.24 | .55 | 1.57 | .20 |
| 71           | 67 ... 71      | 2.64 ... 2.80 | 152                | 120  | 66   | 14  | 40   | 5   |
|              |                |               | 5.98               | 4.72 | 2.60 | .55 | 1.57 | .20 |
| 77           | 73 ... 77      | 2.87 ... 3.03 | 176                | 136  | 72   | 18  | 40   | 5   |
|              |                |               | 6.93               | 5.35 | 2.83 | .71 | 1.57 | .20 |
| 81           | 77 ... 81      | 3.03 ... 3.19 | 184                | 144  | 76   | 18  | 40   | 5   |
|              |                |               | 7.24               | 5.67 | 2.99 | .71 | 1.57 | .20 |
| 91           | 88 ... 91      | 3.39 ... 3.58 | 198                | 158  | 85   | 18  | 40   | 8   |
|              |                |               | 7.80               | 6.22 | 3.35 | .71 | 1.57 | .31 |
| 103          | 99 ... 103     | 3.90 ... 4.06 | 214                | 174  | 98   | 18  | 40   | 8   |
|              |                |               | 8.43               | 6.85 | 3.86 | .71 | 1.57 | .31 |
| 109          | 105 ... 109    | 4.13 ... 4.29 | 220                | 180  | 104  | 18  | 40   | 8   |
|              |                |               | 8.66               | 7.09 | 4.09 | .71 | 1.57 | .31 |
| 115          | 110 ... 115    | 4.33 ... 4.53 | 226                | 186  | 109  | 18  | 40   | 8   |
|              |                |               | 8.90               | 7.32 | 4.29 | .71 | 1.57 | .31 |

### Ordering Codes

#### Heavy Saddle

**\*DIN1593-7-W66**

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| * Heavy Saddle to DIN 1593 | DIN1593                                                    |
| * STAUFF Group (Ø D1)      | 7                                                          |
| * Material code            | Carbon Steel, uncoated W1                                  |
|                            | Carbon Steel, zinc-plated and thick-film passivated W66    |
|                            | Stainless Steel V4A 1.4401 / 1.4571 (AISI 316 / 316 Ti) W5 |

### Applications

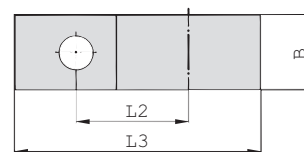
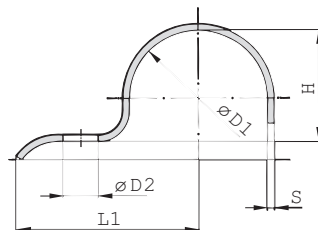
- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Light Saddle with Tension Clearance (DIN 1596)

### Single-Bolt Design



### Ordering Codes

#### Light Saddle

**\*DIN1596-\*7-\*W66**

\* Light Saddle to DIN 1596

**DIN1596**

\* STAUFF Group (Ø D1)

**7**

\* Material code Carbon Steel, uncoated  
Carbon Steel, zinc-plated  
and thick-film passivated

**W1**

**W66**

Stainless Steel V4A

1.4401 / 1.4571 (AISI 316 / 316 Ti)

**W5**

### Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

| STAUFF<br>Group | Diameter Range |               | Dimensions (mm/in) |      |       |      |     |      |     |  |
|-----------------|----------------|---------------|--------------------|------|-------|------|-----|------|-----|--|
| Ø D1            | (mm)           | (in)          | L1                 | L2   | L3    | H    | D2  | B    | S   |  |
| 7               | 5,5 ... 7      | .22 ... .28   | 26                 | 14   | 31,5  | 5    | 6,6 | 16   | 2   |  |
|                 |                |               | 1.02               | .55  | 1.24  | .20  | .26 | .63  | .08 |  |
| 9               | 7 ... 9        | .28 ... .35   | 28                 | 16   | 34,5  | 6    | 6,6 | 16   | 2   |  |
|                 |                |               | 1.10               | .63  | 1.36  | .24  | .26 | .63  | .08 |  |
| 13              | 9,5 ... 13     | .39 ... .51   | 30                 | 18   | 38,5  | 9    | 6,6 | 20   | 2   |  |
|                 |                |               | 1.18               | .71  | 1.52  | .35  | .26 | .79  | .08 |  |
| 15,5            | 13 ... 15,5    | .51 ... .61   | 32                 | 20   | 41,75 | 12   | 6,6 | 20   | 2   |  |
|                 |                |               | 1.26               | .79  | 1.64  | .47  | .26 | .79  | .08 |  |
| 19              | 15,5 ... 19    | .61 ... .75   | 34                 | 22   | 45,5  | 15   | 6,6 | 20   | 2   |  |
|                 |                |               | 1.34               | .87  | 1.79  | .59  | .26 | .79  | .08 |  |
| 23              | 20 ... 23      | .79 ... .91   | 43                 | 28   | 57,5  | 19   | 9   | 25   | 3   |  |
|                 |                |               | 1.69               | 1.10 | 2.26  | .75  | .35 | .98  | .12 |  |
| 26              | 23 ... 26      | .91 ... 1.02  | 44                 | 29   | 60    | 22   | 9   | 25   | 3   |  |
|                 |                |               | 1.73               | 1.14 | 2.36  | .87  | .35 | .98  | .12 |  |
| 28,5            | 26 ... 28,5    | 1.02 ... 1.12 | 47                 | 32   | 64,25 | 24   | 9   | 25   | 3   |  |
|                 |                |               | 1.85               | 1.26 | 2.53  | .94  | .35 | .98  | .12 |  |
| 31              | 28,5 ... 31    | 1.12 ... 1.22 | 47                 | 32   | 65,5  | 27   | 9   | 25   | 3   |  |
|                 |                |               | 1.85               | 1.26 | 2.58  | 1.06 | .35 | .98  | .12 |  |
| 33 *            | 31 ... 33      | 1.22 ... 1.30 | 56                 | 36   | 75,5  | 29   | 9   | 25   | 3   |  |
|                 |                |               | 2.20               | 1.42 | 2.97  | 1.14 | .35 | .98  | .12 |  |
| 36              | 33 ... 36      | 1.30 ... 1.42 | 57                 | 40   | 78    | 32   | 11  | 30   | 3   |  |
|                 |                |               | 2.24               | 1.57 | 3.07  | 1.26 | .43 | 1.18 | .12 |  |
| 39              | 36 ... 39      | 1.42 ... 1.54 | 59                 | 42   | 81,5  | 34   | 11  | 30   | 3   |  |
|                 |                |               | 2.32               | 1.65 | 3.21  | 1.34 | .43 | 1.18 | .12 |  |
| 43              | 39 ... 43      | 1.54 ... 1.69 | 61                 | 44   | 85,5  | 38   | 11  | 30   | 3   |  |
|                 |                |               | 2.40               | 1.73 | 3.37  | 1.50 | .43 | 1.18 | .12 |  |
| 46              | 43 ... 46      | 1.69 ... 1.81 | 62                 | 45   | 88    | 41   | 11  | 30   | 3   |  |
|                 |                |               | 2.44               | 1.77 | 3.46  | 1.61 | .43 | 1.18 | .12 |  |
| 49              | 46 ... 49      | 1.81 ... 1.93 | 67                 | 48   | 95,5  | 44   | 14  | 40   | 4   |  |
|                 |                |               | 2.64               | 1.89 | 3.76  | 1.73 | .55 | 1.57 | .16 |  |
| 52 *            | 49 ... 52      | 1.93 ... 2.05 | 72                 | 53   | 102   | 47   | 14  | 40   | 4   |  |
|                 |                |               | 2.83               | 2.09 | 4.02  | 1.85 | .55 | 1.57 | .16 |  |
| 58              | 53 ... 58      | 2.09 ... 2.28 | 76                 | 55   | 107   | 52   | 14  | 40   | 4   |  |
|                 |                |               | 2.99               | 2.17 | 4.21  | 2.05 | .55 | 1.57 | .16 |  |
| 61              | 58 ... 61      | 2.28 ... 2.40 | 77                 | 58   | 111,5 | 56   | 14  | 40   | 4   |  |
|                 |                |               | 3.03               | 2.28 | 4.39  | 2.20 | .55 | 1.57 | .16 |  |

\* Similar to DIN 1596.

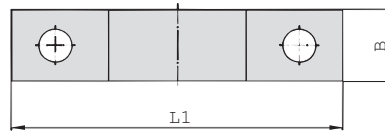
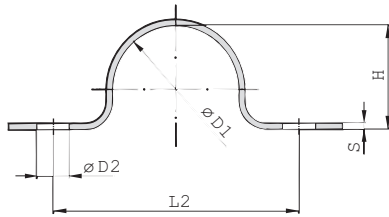
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.





## Light Saddle with Tension Clearance (DIN 1597)

### Two-Bolt Design



| STAUFF Group | Diameter Range |               | Dimensions (mm/in) |      |      |     |      |     |
|--------------|----------------|---------------|--------------------|------|------|-----|------|-----|
|              | Ø D1           | (mm) (in)     | L1                 | L2   | H    | D2  | B    | S   |
| 7            | 5,5 ... 7      | .22 ... .28   | 44                 | 28   | 5    | 5,5 | 16   | 1,5 |
|              |                |               | 1.73               | 1.10 | .20  | .22 | .63  | .06 |
| 9            | 7 ... 9        | .28 ... .35   | 48                 | 32   | 6    | 5,5 | 16   | 1,5 |
|              |                |               | 1.89               | 1.26 | .24  | .22 | .63  | .06 |
| 13           | 9,5 ... 13     | .39 ... .51   | 52                 | 36   | 9    | 5,5 | 16   | 1,5 |
|              |                |               | 2.05               | 1.42 | .35  | .22 | .63  | .06 |
| 15,5         | 13 ... 15,5    | .51 ... .61   | 56                 | 40   | 12   | 5,5 | 16   | 1,5 |
|              |                |               | 2.20               | 1.57 | .47  | .22 | .63  | .06 |
| 19           | 15,5 ... 19    | .61 ... .75   | 60                 | 44   | 15   | 5,5 | 16   | 1,5 |
|              |                |               | 2.36               | 1.73 | .59  | .22 | .63  | .06 |
| 23           | 20 ... 23      | .79 ... .91   | 76                 | 56   | 19   | 6,6 | 20   | 2   |
|              |                |               | 2.99               | 2.20 | .75  | .26 | .79  | .08 |
| 26           | 23 ... 26      | .91 ... 1.02  | 78                 | 58   | 22   | 6,6 | 20   | 2   |
|              |                |               | 3.07               | 2.28 | .87  | .26 | .79  | .08 |
| 28,5         | 26 ... 28,5    | 1.02 ... 1.12 | 84                 | 64   | 24   | 6,6 | 20   | 2   |
|              |                |               | 3.31               | 2.52 | .94  | .26 | .79  | .08 |
| 31           | 28,5 ... 31    | 1.12 ... 1.22 | 84                 | 64   | 27   | 6,6 | 20   | 2   |
|              |                |               | 3.31               | 2.52 | 1.06 | .26 | .79  | .08 |
| 33 *         | 31 ... 33      | 1.22 ... 1.30 | 92                 | 72   | 29   | 6,6 | 20   | 2   |
|              |                |               | 3.62               | 2.83 | 1.14 | .26 | .79  | .08 |
| 36           | 33 ... 36      | 1.30 ... 1.42 | 104                | 80   | 32   | 9   | 25   | 3   |
|              |                |               | 4.09               | 3.15 | 1.26 | .35 | .98  | .12 |
| 39           | 36 ... 39      | 1.42 ... 1.54 | 108                | 84   | 34   | 9   | 25   | 3   |
|              |                |               | 4.25               | 3.31 | 1.34 | .35 | .98  | .12 |
| 43           | 39 ... 43      | 1.54 ... 1.69 | 112                | 88   | 38   | 9   | 25   | 3   |
|              |                |               | 4.41               | 3.46 | 1.50 | .35 | .98  | .12 |
| 46           | 43 ... 46      | 1.69 ... 1.81 | 114                | 90   | 41   | 9   | 25   | 3   |
|              |                |               | 4.49               | 3.54 | 1.61 | .35 | .98  | .12 |
| 49           | 46 ... 49      | 1.81 ... 1.93 | 118                | 90   | 44   | 11  | 30   | 3   |
|              |                |               | 4.65               | 3.54 | 1.73 | .43 | 1.18 | .12 |
| 52 *         | 49 ... 52      | 1.93 ... 2.05 | 134                | 106  | 47   | 11  | 30   | 3   |
|              |                |               | 5.28               | 4.17 | 1.85 | .43 | 1.18 | .12 |
| 58           | 53 ... 58      | 2.09 ... 2.28 | 138                | 110  | 52   | 11  | 30   | 3   |
|              |                |               | 5.43               | 4.33 | 2.05 | .43 | 1.18 | .12 |
| 61           | 58 ... 61      | 2.28 ... 2.40 | 138                | 110  | 56   | 11  | 30   | 3   |
|              |                |               | 5.43               | 4.33 | 2.20 | .43 | 1.18 | .12 |

### Ordering Codes

#### Light Saddle

**\*DIN1597-7-\*W66**

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| * Light Saddle to DIN 1597 | DIN 1597                                            |
| * STAUFF Group (Ø D1)      | 7                                                   |
| * Material code            | Carbon Steel, uncoated                              |
|                            | Carbon Steel, zinc-plated and thick-film passivated |
|                            | Stainless Steel V4A                                 |
|                            | 1.4401 / 1.4571 (AISI 316 / 316 Ti)                 |
|                            | W1                                                  |
|                            | W66                                                 |
|                            | W5                                                  |

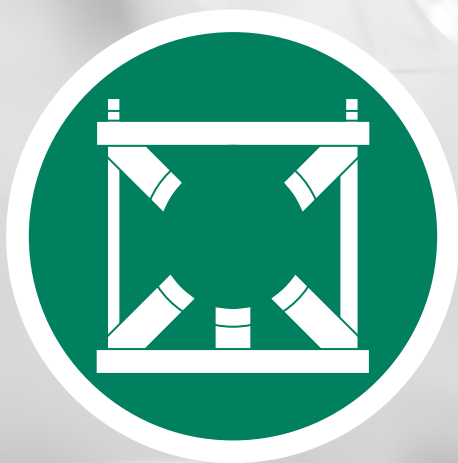
### Applications

- Installation of pipes, tubes, poles and other round components directly on the substrate (floor, wall or ceiling)

\* Similar to DIN 1597.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.







**Construction Series**

KS / DKS

144



**Construction Series  
(for Anchor Bolt Fastening)**

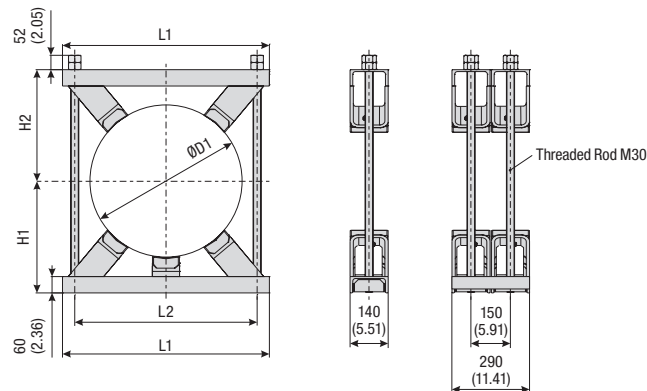
KSV / DKSV

145



## Construction Series

### Types KS (Single Version) / DKS (Double Version)



### Ordering Codes

Construction Series **\*KS-\*220-\*PA-\*W8**

\* Version      Single version      **KS**  
                          Double version      **DKS**

\* Exact outside diameter ØD1 (mm)      **220**

\* Material of Plastic Pads (see below)      **PA**

\* Material Code      Steel, prime coated (grey, RAL 7035)      **W8**

Please note: All items are supplied non-assembled.

### Standard Materials for Plastic Pads



#### Polyamide

Colour: Black

Material Code: **PA**

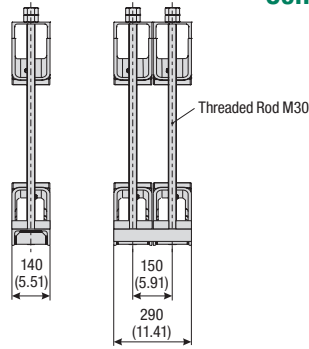
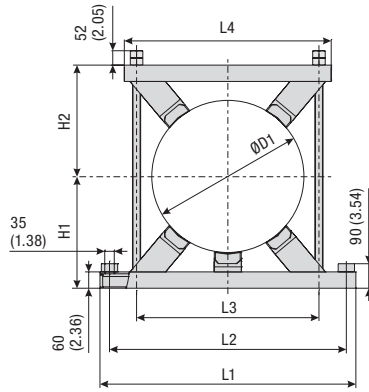
See pages 154 / 155 for material properties and technical information.

| Group  | Outside Diameter ØD1 Pipe / Tube<br>Diameter Range |                 | Standard Diameters |       | Dimensions (mm/in) |               |                |              | No. of Plastic Pads |
|--------|----------------------------------------------------|-----------------|--------------------|-------|--------------------|---------------|----------------|--------------|---------------------|
|        |                                                    |                 |                    |       | L1                 | L2            | H1             | H2           |                     |
| STAUFF | (mm)                                               | (in)            | (mm)               | (in)  |                    |               |                |              |                     |
| 1      | 220 ... 275                                        | 8.66 ... 10.85  | 220                | 8.66  | 420<br>16.54       | 330<br>12.99  | 220<br>8.66    | 220<br>8.66  | 4                   |
|        |                                                    |                 | 247                | 9.72  |                    |               |                |              |                     |
|        |                                                    |                 | 267                | 10.51 |                    |               |                |              |                     |
|        |                                                    |                 | 273                | 10.75 |                    |               |                |              |                     |
|        |                                                    |                 | 280                | 11.02 |                    |               |                |              |                     |
| 2      | 276 ... 325                                        | 10.87 ... 12.80 | 300                | 11.81 | 460<br>18.11       | 370<br>14.57  | 240<br>9.45    | 240<br>9.45  | 4                   |
|        |                                                    |                 | 318                | 12.52 |                    |               |                |              |                     |
|        |                                                    |                 | 323,9              | 12.75 |                    |               |                |              |                     |
|        |                                                    |                 |                    |       |                    |               |                |              |                     |
| 3      | 326 ... 370                                        | 12.83 ... 14.57 | 355,6              | 14.00 | 510<br>20.08       | 420<br>16.53  | 260<br>10.23   | 260<br>10.23 | 4                   |
|        |                                                    |                 | 368                | 14.49 |                    |               |                |              |                     |
| 4      | 371 ... 425                                        | 14.61 ... 16.73 | 390                | 15.35 | 570<br>22.44       | 480<br>18.89  | 290<br>11.42   | 290<br>11.42 | 4                   |
|        |                                                    |                 | 406,4              | 16.00 |                    |               |                |              |                     |
| 5      | 426 ... 485                                        | 16.77 ... 19.09 | 457,2              | 18.00 | 620<br>24.41       | 530<br>20.87  | 305<br>12.01   | 305<br>12.01 | 4                   |
|        |                                                    |                 | 470                | 18.50 |                    |               |                |              |                     |
| 6      | 486 ... 550                                        | 19.13 ... 21.65 | 490                | 19.29 | 680<br>26.77       | 590<br>23.23  | 370<br>14.57   | 370<br>14.57 | 4                   |
|        |                                                    |                 | 508                | 20.00 |                    |               |                |              |                     |
|        |                                                    |                 | 521                | 20.51 |                    |               |                |              |                     |
|        |                                                    |                 | 546                | 21.50 |                    |               |                |              |                     |
| 7      | 551 ... 630                                        | 21.69 ... 24.80 | 558,8              | 22.00 | 760<br>29.92       | 670<br>26.38  | 410<br>16.14   | 410<br>16.14 | 5                   |
|        |                                                    |                 | 609,6              | 24.00 |                    |               |                |              |                     |
| 8      | 631 ... 715                                        | 24.84 ... 28.15 | 711                | 28.00 | 845<br>33.27       | 755<br>29.72  | 452<br>17.80   | 452<br>17.80 | 5                   |
|        |                                                    |                 |                    |       |                    |               |                |              |                     |
| 9      | 716 ... 800                                        | 28.19 ... 31.50 | 762                | 30.00 | 940<br>37.00       | 850<br>33.46  | 495<br>19.49   | 495<br>19.49 | 5                   |
|        |                                                    |                 |                    |       |                    |               |                |              |                     |
| 10     |                                                    |                 | 813                | 32.00 | 990<br>38.97       | 900<br>35.43  | 500<br>19.69   | 500<br>19.69 | 5                   |
|        |                                                    |                 |                    |       |                    |               |                |              |                     |
| 11     |                                                    |                 | 1000               | 39.37 | 1200<br>47.24      | 1100<br>43.30 | 591,5<br>23.29 | 593<br>23.34 | 5                   |
|        |                                                    |                 |                    |       |                    |               |                |              |                     |
| 12     |                                                    |                 | 1016               | 40.00 | 1200<br>47.24      | 1100<br>43.30 | 602<br>23.70   | 602<br>23.70 | 5                   |
|        |                                                    |                 |                    |       |                    |               |                |              |                     |

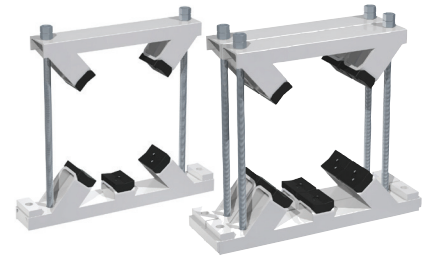
Alternative outside diameters, materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).





## Construction Series for Anchor Bolt Fastening Types KSV (Single) / DKS (Double)



| Group<br>STAUFF | Outside Diameter ØD1 Pipe / Tube<br>Diameter Range |                 | Standard Diameters |       | Dimensions (mm/in) |      |      |      |       |     | No. of<br>Plastic<br>Pads |
|-----------------|----------------------------------------------------|-----------------|--------------------|-------|--------------------|------|------|------|-------|-----|---------------------------|
|                 | (mm)                                               | (in)            | (mm)               | (in)  | L1                 | L2   | L3   | L4   | H1    | H2  |                           |
| 1               | 220 ... 275                                        | 8.66 ... 10.85  | 220                | 8.66  | 580                | 490  | 330  | 420  | 220   | 220 | 4                         |
|                 |                                                    |                 | 247                | 9.72  |                    |      |      |      |       |     |                           |
|                 |                                                    |                 | 267                | 10.51 |                    |      |      |      |       |     |                           |
|                 |                                                    |                 | 273                | 10.75 |                    |      |      |      |       |     |                           |
| 2               | 276 ... 325                                        | 10.87 ... 12.80 | 280                | 11.02 | 620                | 530  | 370  | 460  | 240   | 240 | 4                         |
|                 |                                                    |                 | 300                | 11.81 |                    |      |      |      |       |     |                           |
|                 |                                                    |                 | 318                | 12.52 |                    |      |      |      |       |     |                           |
|                 |                                                    |                 | 323,9              | 12.75 |                    |      |      |      |       |     |                           |
| 3               | 326 ... 370                                        | 12.83 ... 14.57 | 355,6              | 14.00 | 670                | 580  | 420  | 510  | 260   | 260 | 4                         |
|                 |                                                    |                 | 368                | 14.49 |                    |      |      |      |       |     |                           |
| 4               | 371 ... 425                                        | 14.61 ... 16.73 | 390                | 15.35 | 750                | 640  | 480  | 570  | 290   | 290 | 4                         |
|                 |                                                    |                 | 406,4              | 16.00 |                    |      |      |      |       |     |                           |
| 5               | 426 ... 485                                        | 16.77 ... 19.09 | 457,2              | 18.00 | 800                | 730  | 530  | 620  | 305   | 305 | 4                         |
|                 |                                                    |                 | 470                | 18.50 |                    |      |      |      |       |     |                           |
| 6               | 486 ... 550                                        | 19.13 ... 21.65 | 490                | 19.29 | 860                | 790  | 590  | 680  | 370   | 370 | 4                         |
|                 |                                                    |                 | 508                | 20.00 |                    |      |      |      |       |     |                           |
|                 |                                                    |                 | 521                | 20.51 |                    |      |      |      |       |     |                           |
|                 |                                                    |                 | 546                | 21.50 |                    |      |      |      |       |     |                           |
| 7               | 551 ... 630                                        | 21.69 ... 24.80 | 558,8              | 22.00 | 940                | 870  | 670  | 760  | 410   | 410 | 5                         |
|                 |                                                    |                 | 609,6              | 24.00 |                    |      |      |      |       |     |                           |
| 8               | 631 ... 715                                        | 24.84 ... 28.15 | 711                | 28.00 | 1025               | 955  | 755  | 845  | 452   | 452 | 5                         |
|                 |                                                    |                 |                    |       |                    |      |      |      |       |     |                           |
| 9               | 716 ... 800                                        | 28.19 ... 31.50 | 762                | 30.00 | 1120               | 1050 | 850  | 940  | 495   | 495 | 5                         |
|                 |                                                    |                 |                    |       |                    |      |      |      |       |     |                           |
| 10              |                                                    |                 | 813                | 32.00 | 1170               | 1100 | 900  | 990  | 500   | 500 | 5                         |
|                 |                                                    |                 |                    |       |                    |      |      |      |       |     |                           |
| 11              |                                                    |                 | 1000               | 39.37 | 1400               | 1300 | 1100 | 1200 | 591,5 | 593 | 5                         |
|                 |                                                    |                 |                    |       |                    |      |      |      |       |     |                           |
| 12              |                                                    |                 | 1016               | 40.00 | 1400               | 1300 | 1100 | 1200 | 602   | 602 | 5                         |
|                 |                                                    |                 |                    |       |                    |      |      |      |       |     |                           |

### Ordering Codes

#### Construction Series \*KSV-\*220-\*PA-\*W8

\* Version      Single version      **KSV**  
                         Double version      **DKSV**

\* Exact outside diameter ØD1 (mm)      **220**

\* Material of Plastic Pads (see below)      **PA**

\* Material Code      Steel, prime coated (grey, RAL 7035)      **W8**

Please note: All items are supplied non-assembled.

### Standard Materials for Plastic Pads

**Polyamide**  
Colour: Black  
Material Code: **PA**

See pages 154 / 155 for material properties and technical information.

Alternative outside diameters, materials and surface finishings are available upon request. Contact STAUFF for further information.








**Cushion Clamp Series**

STC / SPC

148


**Channel Rail**

SCS

149


**Compact Twin Series**

DS

150


**Agriculture Twin Series**

AG

150


**Pipe / Tube Bushing**

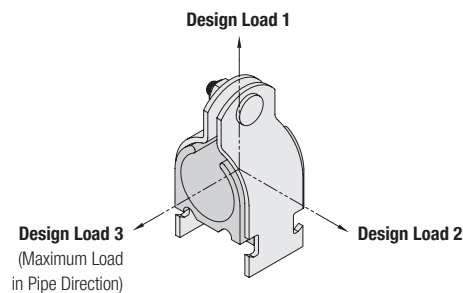
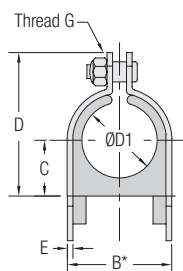
RF

151



## Clamp Assembly ■ Types STC / SPC

(for Use with Channel Rail SCS)



| Outside Diameter<br>Pipe / Tube / Hose<br>Ø D1<br>(mm) (in) |       | Nominal<br>Bore<br>Pipe<br>(in) | Ordering Codes<br>(1 Clamp Assembly)<br>(** = Material Code) | Standard<br>Packaging Units<br>pcs. | Dimensions<br>(mm/in) |              |               |            |  | Thread G    | Design Loads<br>(kN/psi) |             |             |
|-------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------|-------------------------------------|-----------------------|--------------|---------------|------------|--|-------------|--------------------------|-------------|-------------|
|                                                             |       |                                 |                                                              |                                     | B*                    | C            | D             | E          |  |             | 1                        | 2           | 3           |
| 6,4                                                         | 1/4   |                                 | STC-025-**-K                                                 | 24 / box                            | 15,7<br>.62           | 5,6<br>.22   | 28,2<br>1.11  | 2<br>.08   |  | 1/4-20 UNC  | 1,78<br>400              | 0,22<br>50  | 0,22<br>50  |
| 8                                                           | 3/8   |                                 | STC-037-**-K                                                 | 24 / box                            | 19,1<br>.75           | 7,1<br>.28   | 31,5<br>1.24  | 2<br>.08   |  | 1/4-20 UNC  | 1,78<br>400              | 0,22<br>50  | 0,22<br>50  |
| 12,7                                                        | 1/2   |                                 | STC-050-**-K                                                 | 24 / box                            | 22,1<br>.87           | 8,6<br>.34   | 34,5<br>1.36  | 2<br>.08   |  | 1/4-20 UNC  | 1,78<br>400              | 0,22<br>50  | 0,22<br>50  |
| 13,5                                                        |       | 1/4                             | SPC-025-**-K                                                 | 24 / box                            | 23,1<br>.91           | 9,1<br>.36   | 35,8<br>1.41  | 2<br>.08   |  | 1/4-20 UNC  | 1,78<br>400              | 0,22<br>50  | 0,22<br>50  |
| 16                                                          | 5/8   |                                 | STC-062-**-K                                                 | 24 / box                            | 25,4<br>1.00          | 10,4<br>.41  | 38,1<br>1.50  | 2<br>.08   |  | 1/4-20 UNC  | 1,78<br>400              | 0,22<br>50  | 0,22<br>50  |
| 17,2                                                        |       | 3/8                             | SPC-037-**-K                                                 | 24 / box                            | 27,2<br>1.07          | 11,4<br>.45  | 40,4<br>1.59  | 2<br>.08   |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 19                                                          | 3/4   |                                 | STC-075-**-K                                                 | 24 / box                            | 33,8<br>1.33          | 13,5<br>.53  | 45,2<br>1.78  | 2<br>.08   |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 21,3                                                        |       | 1/2                             | SPC-050-**-K                                                 | 24 / box                            | 36,8<br>1.45          | 15,0<br>.59  | 48,5<br>1.91  | 2<br>.08   |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 22,2                                                        | 7/8   |                                 | STC-087-**-K                                                 | 24 / box                            | 36,8<br>1.45          | 14,7<br>.58  | 48,5<br>1.91  | 2<br>.08   |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 25,4                                                        | 1     |                                 | STC-100-**-K                                                 | 12 / box                            | 42,2<br>1.66          | 16,8<br>.66  | 51,6<br>2.03  | 2,8<br>.11 |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 26,9                                                        |       | 3/4                             | SPC-075-**-K                                                 | 12 / box                            | 45,5<br>1.79          | 18,3<br>.72  | 54,9<br>2.16  | 2,8<br>.11 |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 32                                                          | 1-1/4 |                                 | STC-125-**-K                                                 | 12 / box                            | 48,8<br>1.92          | 19,8<br>.78  | 58,4<br>2.30  | 2,8<br>.11 |  | 1/4-20 UNC  | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 33,7                                                        |       | 1                               | SPC-100-**-K                                                 | 12 / box                            | 56,4<br>2.22          | 23,1<br>.91  | 69,9<br>2.75  | 3<br>.12   |  | 5/16-18 UNC | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 38                                                          | 1-1/2 |                                 | STC-150-**-K                                                 | 12 / box                            | 56,4<br>2.22          | 23,1<br>.91  | 69,9<br>2.75  | 3<br>.12   |  | 5/16-18 UNC | 2,67<br>600              | 0,33<br>75  | 0,33<br>75  |
| 42                                                          |       | 1-1/4                           | SPC-125-**-K                                                 | 12 / box                            | 62,7<br>2.47          | 26,2<br>1.03 | 77,0<br>3.03  | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 48,3                                                        |       | 1-1/2                           | SPC-150-**-K                                                 | 12 / box                            | 62,7<br>2.47          | 29,5<br>1.16 | 83,3<br>3.28  | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 50,8                                                        | 2     |                                 | STC-200-**-K                                                 | 12 / box                            | 69,1<br>2.72          | 29,5<br>1.16 | 83,3<br>3.28  | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 60,3                                                        |       | 2                               | SPC-200-**-K                                                 | 1 / bag                             | 69,1<br>3.22          | 35,8<br>1.41 | 96,0<br>3.78  | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 63,5                                                        | 2-1/2 |                                 | STC-250-**-K                                                 | 1 / bag                             | 88,1<br>3.47          | 38,9<br>1.53 | 102,4<br>4.03 | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 66,7                                                        | 2-5/8 |                                 | STC-262-**-K                                                 | 1 / bag                             | 88,1<br>3.47          | 38,9<br>1.53 | 102,4<br>4.03 | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 73                                                          |       | 2-1/2                           | SPC-250-**-K                                                 | 1 / bag                             | 94,5<br>3.72          | 42,2<br>1.66 | 108,5<br>4.27 | 3<br>.12   |  | 5/16-18 UNC | 3,56<br>800              | 0,56<br>125 | 0,56<br>125 |
| 76,2                                                        | 3     |                                 | STC-300-**-K                                                 | 1 / bag                             | 100,8<br>3.97         | 45,2<br>1.78 | 114,8<br>4.52 | 3<br>.12   |  | 5/16-18 UNC | 4,45<br>1 000            | 0,89<br>200 | 0,67<br>150 |
| 88,9                                                        |       | 3                               | SPC-300-**-K                                                 | 1 / bag                             | 110,7<br>4.36         | 50,0<br>1.97 | 124,7<br>4.91 | 3<br>.12   |  | 3/8-16 UNC  | 4,45<br>1 000            | 0,89<br>200 | 0,67<br>150 |
| 102                                                         |       | 3-1/2                           | SPC-350-**-K                                                 | 1 / bag                             | 126,2<br>4.97         | 57,9<br>2.28 | 140,5<br>5.53 | 3<br>.12   |  | 3/8-16 UNC  | 4,45<br>1 000            | 0,89<br>200 | 0,67<br>150 |
| 114                                                         |       | 4                               | SPC-400-**-K                                                 | 1 / bag                             | 138,9<br>5.47         | 64,3<br>2.53 | 153,2<br>6.03 | 3<br>.12   |  | 3/8-16 UNC  | 4,45<br>1 000            | 0,89<br>200 | 0,67<br>150 |
| 140                                                         |       | 5                               | SPC-500-**-K                                                 | 1 / bag                             | 164,3<br>6.47         | 77,0<br>3.03 | 178,6<br>7.03 | 3,6<br>.14 |  | 3/8-16 UNC  | 4,45<br>1 000            | 0,89<br>200 | 0,67<br>150 |
| 168                                                         |       | 6                               | SPC-600-**-K                                                 | 1 / bag                             | 189,7<br>7.47         | 89,7<br>3.53 | 204,0<br>8.03 | 3,6<br>.14 |  | 3/8-16 UNC  | 4,45<br>1 000            | 0,89<br>200 | 0,67<br>150 |

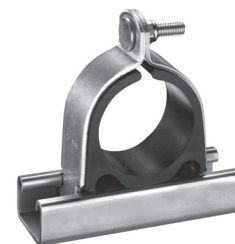
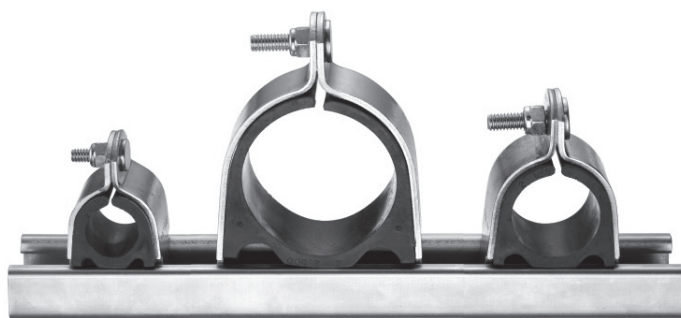
\* Minimum required for installation.

One clamp assembly is consisting of two carbon steel clamp halves (one with threaded stud), one thermoplastic cushion insert and one lock nut with Nylon insert. Channel rail not included. All threaded parts are only available with unified coarse (UNC) thread. Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



## Clamp Assembly ■ Types STC / SPC

(for Use with Channel Rail SCS)



### Standard Materials



Cushion Insert  
**Thermoplastic Elastomer** (80 Shore-A)  
 Colour: Black

The cushion material is compatible with most oils, chemicals and cleaning solvents and suitable for applications within a temperature range of -50 °C ... +125 °C (-58 °F ... +257 °F).

Alternative materials are available upon request.  
 Please contact STAUFF for further information.

### Product Features

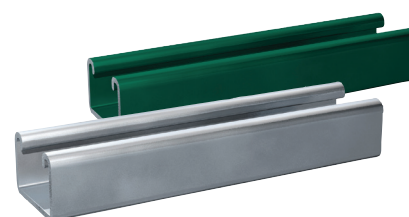
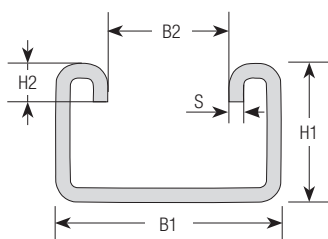
- Clamp assemblies designed to mount directly to 41,3 mm / 1-5/8 in wide strut channels, such as the STAUFF Channel Rail, type SCS
- Suitable for most Fluid Power applications ranging from mobile equipment to industrial machinery
- Reduced horizontal mounting space
- Easy installation and retro fit capability
- Reduces shock and vibration while preventing galvanic corrosion

### Ordering Codes

#### Clamp Assembly \*STC-\*125-\*W4-\*K

|                                                   |                                                                                                                                      |                 |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| * Type of clamp                                   | STC (Tube diameters)<br>SPC (Pipe diameters)                                                                                         | STC<br>SPC      |
| * Pipe / Tube O.D. (according to dimension table) |                                                                                                                                      | 125             |
| * Material code                                   | Carbon Steel, zinc-plated,<br>blue-chromated<br>Stainless Steel V2A<br>1.4301 (AISI 304)<br>Stainless Steel V4A<br>1.4401 (AISI 316) | W32<br>W4<br>W5 |
| Assembling                                        | Components packed in kits                                                                                                            | K               |

## Channel Rail ■ Type SCS



| Dimensions (mm/in) |           |      |     |     |
|--------------------|-----------|------|-----|-----|
| B1                 | B2        | H1   | H2  | S   |
| 41,3               | 22,2      | 25,4 | 7   | 2,7 |
| 1.63 (1-5/8)       | .88 (7/8) | 1.00 | .28 | .11 |

Alternative rail profiles, materials and surface finishings are available upon request. Contact STAUFF for further information.

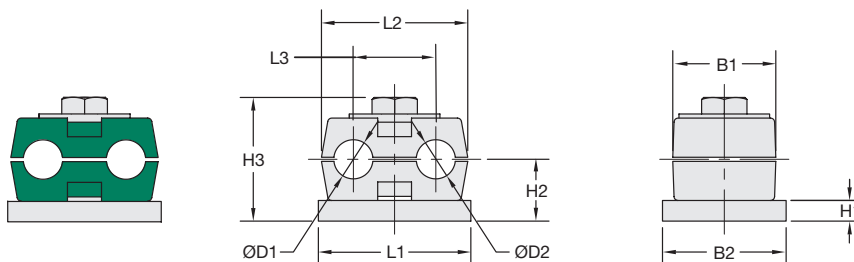
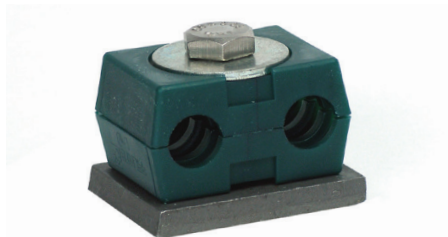
### Ordering Codes

#### Strut Channel \*SCS-\*048-\*1-\*PL

|                  |                                                        |            |
|------------------|--------------------------------------------------------|------------|
| * Strut Channel  |                                                        | SCS        |
| * Length of Rail | 1,22 m / 4.00 ft / 48 in<br>3,05 m / 10.00 ft / 120 in | 048<br>120 |
| * Height of Rail | 25,4 mm / 1.00 in                                      | 1          |
| * Material code  | Carbon Steel, uncoated<br>Carbon Steel, green painted  | PL<br>GR   |



## Compact Twin Series: Clamp Body Type DS



### Ordering Codes

#### Clamp Body **\*1-\*06/06-\*PP-\*DS**

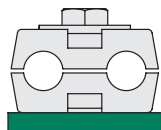
One clamp body is consisting of two clamp halves.

|                                            |              |
|--------------------------------------------|--------------|
| * STAUFF Group DS 1                        | <b>1</b>     |
| * Exact outside diameters Ø D1 / Ø D2 (mm) | <b>06/06</b> |
| * Clamp Body Material (Polypropylene)      | <b>PP</b>    |
| * Compact Twin Series                      | <b>DS</b>    |

| Group  | Outside Diameter<br>Pipe / Tube<br>Ø D1 / Ø D2<br>(mm) (in) |      | Nominal Bore<br>Pipe<br>(in) | Copper Tube<br>ASTM B88<br>(in) | Ordering Codes<br>(2 Clamp Halves) | Dimensions (mm/in) |      |     |     |     |      |     |      |
|--------|-------------------------------------------------------------|------|------------------------------|---------------------------------|------------------------------------|--------------------|------|-----|-----|-----|------|-----|------|
| STAUFF |                                                             |      |                              |                                 |                                    | L1                 | L2   | L3  | H1  | H2  | H3   | B1  | B2   |
| DS 1   | 6                                                           |      |                              |                                 | 106/06-PP-DS                       |                    |      |     |     |     |      |     |      |
|        | 6,4                                                         | 1/4  |                              |                                 | 106.4/06.4-PP-DS                   |                    |      |     |     |     |      |     |      |
|        | 8                                                           | 5/16 |                              |                                 | 108/08-PP-DS                       | 37                 | 35,5 | 20  | 5   | 15  | 30   | 25  | 30   |
|        | 9,5                                                         | 3/8  |                              | 1/4                             | 109.5/09.5-PP-DS                   | 1.46               | 1.40 | .79 | .20 | .59 | 1.18 | .98 | 1.18 |
|        | 10                                                          |      | 1/8                          |                                 | 110/110-PP-DS                      |                    |      |     |     |     |      |     |      |

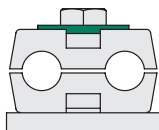
Additional outside diameters are available upon request. Please contact STAUFF for further information.

## Compact Twin Series: Metal Hardware



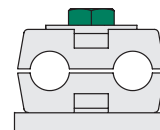
### Weld Plate, Type SP-DS

**SP-DS-1-U-W2**  
Thread size: 1/4–20 UNC  
Carbon Steel, phosphated



### Cover Plate, Type US-DS

**US-DS-1-W3**  
Carbon Steel, zinc/nickel-plated

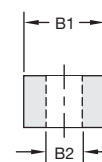
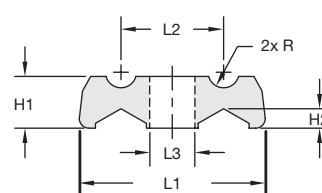
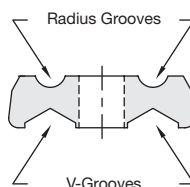


### Hexagon Bolt, Type AS

**AS-1/4-20UNCx1-W3**  
Thread size: 1/4–20 UNC  
Carbon Steel, zinc/nickel-plated

All threaded parts are only available with unified coarse (UNC) thread. Rail mount and stacking assemblies as well as alternative materials and surface finishings are available upon request.

## Agriculture Twin Series: Clamp Body Type AG



| Group  | Min/Max Outside Diameters<br>Pipe / Tube<br>Radius Grooves<br>(mm) (in) |             |          |             | V-Grooves<br>(mm) (in) | Ordering Codes<br>(1 Clamp Body) | Dimensions (mm/in) |      |      |      |     |      |      |      |
|--------|-------------------------------------------------------------------------|-------------|----------|-------------|------------------------|----------------------------------|--------------------|------|------|------|-----|------|------|------|
| STAUFF |                                                                         |             |          |             |                        |                                  | L1                 | L2   | L3   | H1   | H2  | B1   | B2   | R    |
| 2      | 3 ... 10                                                                | .12 ... .39 | 4 ... 15 | .26 ... .59 |                        | 215.8/09.6-PP-AG-BK-HV           | 57,5               | 31,7 | 14,0 | 16,0 | 7,1 | 25,0 | 11,0 | 4,8  |
|        |                                                                         |             |          |             |                        |                                  | 2.26               | 1.25 | .55  | .63  | .24 | .98  | .43  | .19  |
| 3      | 4 ... 25                                                                | .16 ... .98 | 7 ... 20 | .28 ... .79 |                        | 324.8/19.5-PP-AG-BK-HV           | 62,0               | 34,5 | 14,0 | 19,0 | 7,1 | 32,0 | 11,0 | 12,4 |
|        |                                                                         |             |          |             |                        |                                  | 2.48               | 1.36 | .55  | .75  | .28 | 1.26 | .43  | .49  |

### Standard Material



Polypropylene  
Colour: Black

See pages 154 / 155 for properties and technical information.

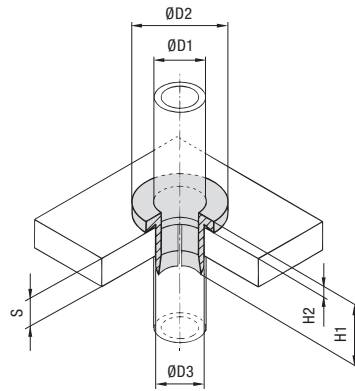
### Product Features

- Flip the clamp body to choose between the radius grooved or the v-grooved design (suitable for a range of diameters)
- Use M10 or 3/8–16 UNC bolts or screws (preferably with washers) to fasten clamp bodies directly to the machine
- Clamp bodies can be stacked for multi-level assembly

Additional outside diameters are available upon request. Please contact STAUFF for further information.







## Pipe / Tube Bushing ■ Type SRF



| Outside Diameter ØD1 |       | Nominal Bore                               | Dimensions |     |     | Wall Thickness | Mounting Bore |
|----------------------|-------|--------------------------------------------|------------|-----|-----|----------------|---------------|
| (mm)                 | (in)  |                                            | (mm/in)    | H1  | H2  | (mm/in)        | (mm/in)       |
|                      |       | (in)                                       | ØD2        |     |     | S              | ØD3           |
| 6                    | 1/4   |                                            | 18         | 22  | 4   | 4 ... 12       | 10            |
|                      |       |                                            | .71        | .87 | .16 | .16 ... .47    | .39           |
| 8                    | 5/16  |                                            | 20         | 22  | 4   | 4 ... 12       | 12            |
|                      |       |                                            | .79        | .87 | .16 | .16 ... .47    | .47           |
| 10                   | 3/8   | 1/8 Pipe<br>1/4 Copper Tube (ASTM B88)     | 22         | 22  | 4   | 4 ... 12       | 14            |
|                      |       |                                            | .87        | .87 | .16 | .16 ... .47    | .55           |
| 12                   | 1/2   | 3/8 Copper Tube (ASTM B88)                 | 24         | 22  | 4   | 4 ... 12       | 16            |
|                      |       |                                            | .94        | .87 | .16 | .16 ... .47    | .63           |
| 14                   |       | 1/4 Pipe                                   | 26         | 22  | 4   | 4 ... 12       | 18            |
|                      |       |                                            | 1.02       | .87 | .16 | .16 ... .47    | .71           |
| 15                   |       |                                            | 28         | 22  | 4   | 4 ... 12       | 20            |
|                      |       |                                            | 1.10       | .87 | .16 | .16 ... .47    | .79           |
| 16                   | 5/8   | 1/2 Copper Tube (ASTM B88)                 | 28         | 22  | 4   | 4 ... 12       | 20            |
|                      |       |                                            | 1.10       | .87 | .16 | .16 ... .47    | .79           |
| 18                   |       |                                            | 30         | 22  | 4   | 4 ... 12       | 22            |
|                      |       |                                            | 1.18       | .87 | .16 | .16 ... .47    | .87           |
| 20                   | 3/4   |                                            | 32         | 22  | 4   | 4 ... 12       | 24            |
|                      |       |                                            | 1.26       | .87 | .16 | .16 ... .47    | .94           |
| 22                   | 7/8   | 3/4 Copper Tube (ASTM B88)                 | 34         | 22  | 4   | 4 ... 12       | 26            |
|                      |       |                                            | 1.34       | .87 | .16 | .16 ... .47    | 1.02          |
| 25                   | 1     |                                            | 38         | 22  | 4   | 4 ... 12       | 30            |
|                      |       |                                            | 1.50       | .87 | .16 | .16 ... .47    | 1.18          |
| 28                   |       | 1 Copper Tube (ASTM B88)                   | 41         | 22  | 4   | 4 ... 12       | 33            |
|                      |       |                                            | 1.61       | .87 | .16 | .16 ... .47    | 1.30          |
| 30                   |       |                                            | 43         | 22  | 4   | 4 ... 12       | 34            |
|                      |       |                                            | 1.69       | .87 | .16 | .16 ... .47    | 1.39          |
| 35                   |       | 1-1/4 Copper Tube (ASTM B88)               | 48         | 22  | 4   | 4 ... 12       | 40            |
|                      |       |                                            | 1.89       | .87 | .16 | .16 ... .47    | 1.57          |
| 38                   | 1-1/2 |                                            | 51         | 22  | 4   | 4 ... 12       | 43            |
|                      |       |                                            | 2.01       | .87 | .16 | .16 ... .47    | 1.70          |
| 42                   |       | 1-1/4 Pipe<br>1-1/2 Copper Tube (ASTM B88) | 55         | 22  | 4   | 4 ... 12       | 47            |
|                      |       |                                            | 2.17       | .87 | .16 | .16 ... .47    | 1.85          |

### Ordering Codes

#### Pipe / Tube Bushing

**\*SRF-\*20-\*PP**

|                                    |     |
|------------------------------------|-----|
| * Pipe / Tube Bushing              | SRF |
| * Exact outside diameter Ø D1 (mm) | 20  |
| * Material code (see below)        | PP  |

### Standard Materials



**Polypropylene**  
Colour: Natural colour  
Material code: **PP**



**Thermoplastic Elastomer (87 Shore-A)**  
Colour: Black  
Material code: **SA**

See pages 154 / 155 for material properties and technical information.

### Product Features

- Designed to centre the pipe or tube in a through-hole (e.g. for return lines entering the hydraulic reservoir)
- Vibration and noise absorbing element
- Available for all commonly used Metric and imperial pipe and tube diameters from 6 ... 42 mm and 1/4 ... 1-1/2 in
- Easy plug-in installation

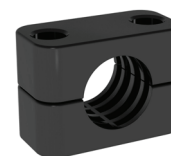
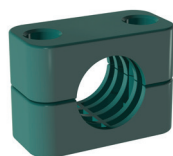




|                                                      |     |
|------------------------------------------------------|-----|
| Standard Clamp Body Materials                        | 154 |
| Standard Elastomer Insert Materials                  | 155 |
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| Standard Clamp Body Designs                          | 158 |
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| Property Classes / Grades of Bolts and Screws        | 159 |
| Thread Conversion Chart                              | 159 |
| General Installation Instructions                    | 160 |
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| Dimensions and Weights of Clamp Assemblies           | 162 |
| Packaging Units (Selection)                          | 163 |



## Standard Clamp Body Materials



| Material Code   | PP                        | PA        | AL               | SA                      |
|-----------------|---------------------------|-----------|------------------|-------------------------|
| Basic Material  | Copolymeric Polypropylene | Polyamide | Aluminium AISi12 | Thermoplastic Elastomer |
| Standard Colour | Green                     | Black     | Natural          | Black                   |

| Mechanical Properties                           |                                                                              |                                                                                |                             |                                                                                                                        |
|-------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Tensile E-Module                                | 1073 N/mm <sup>2</sup><br>(ISO 527)                                          | > 1400 N/mm <sup>2</sup><br>(ISO 527)                                          | > 65000 N/mm <sup>2</sup>   | 113 N/mm <sup>2</sup> at +23 °C / +73.4 °F<br>(ASTM D412)                                                              |
| Notch Impact Strength                           | 8 kJ/m <sup>2</sup> at +23 °C / +73.4 °F<br>(acc. to Charpy / ISO 179 / 1eU) | > 15 kJ/m <sup>2</sup> at 23 °C / +73.4 °F<br>(acc. to Charpy / ISO 179 / 1eU) |                             |                                                                                                                        |
| Low Temperature Notch Impact Strength           | 3 kJ/m <sup>2</sup> at -20 °C / -4.0 °F<br>(acc. to Charpy / ISO 179 / 1eU)  | > 3 kJ/m <sup>2</sup> at -30 °C / -22.0 °F<br>(acc. to Charpy / ISO 179 / 1eU) |                             |                                                                                                                        |
| Tensile Strength at Yield<br>(Tensile Strength) | 26 MPa<br>(ISO 527-2)                                                        | > 55 MPa<br>(ISO 527)                                                          | > 240 MPa<br>(ISO EN 10002) | 15,9 MPa<br>(ASTM D412)                                                                                                |
| Ball Indentation Hardness<br>(Brinell Hardness) | 45,4 MPa<br>(ISO 2039-1)                                                     | > 65 MPa<br>(ISO 2039-1)                                                       | > 70 HBS                    |                                                                                                                        |
| Shore Hardness                                  |                                                                              |                                                                                |                             | 87 A<br>(ISO 868)<br><small>Alternative hardnesses are available upon request!<br/>Contact STAUFF for details.</small> |

| Thermal Properties                      |                                        |                                                                                     |                               |                                         |
|-----------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------|
| Temperature Resistance<br>(Min ... Max) | -30 °C ... +90 °C / -22 °F ... +194 °F | -40 °C ... +120 °C / -40 °F ... +248 °F<br>(Brief exposure up to +140 °C / +284 °F) | up to +300 °C / up to +572 °F | -40 °C ... +125 °C / -40 °F ... +257 °F |

| Chemical Properties |                          |                          |                          |                          |
|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Weak Acids          | conditionally consistent | conditionally consistent | conditionally consistent | consistent               |
| Solvents            | conditionally consistent | conditionally consistent | conditionally consistent | conditionally consistent |
| Benzine             | conditionally consistent | consistent               | consistent               | conditionally consistent |
| Mineral Oils        | conditionally consistent | consistent               | consistent               | conditionally consistent |
| Other Oils          | consistent               | consistent               | consistent               | consistent               |
| Alcohols            | consistent               | consistent               | consistent               | consistent               |
| Seawater            | consistent               | consistent               | consistent               | consistent               |



### Special Clamp Body Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.

The information for the Polyamide material PA have been determined in a conditioned state according to ISO 1110.

For Aluminium, the tensile strength (under reversed bending stress) and impact bending strength both rise constantly at decreasing temperatures whilst the value for breaking elongation decreases.

STAUFF preserves the right to supply products made from alternative, but comparable materials with matching technical characteristics.



## Standard Clamp Insert Materials



STAUFF Group 4 and 6 (Standard Series)  
STAUFF Group 4S to 6S (Heavy Series)



STAUFF Group 7S to 10S (Heavy Series)

| SA                      | EPDM                             | Material Code   |
|-------------------------|----------------------------------|-----------------|
| Thermoplastic Elastomer | Ethylene Propylene Diene Monomer | Basic Material  |
| Black                   | Black                            | Standard Colour |

| Mechanical Properties                                    |                        |                                                 |
|----------------------------------------------------------|------------------------|-------------------------------------------------|
| 16 N/mm <sup>2</sup> at +23 °C / +73.4 °F<br>(ASTM D412) |                        | Tensile E-Module                                |
|                                                          |                        | Notch Impact Strength                           |
|                                                          |                        | Low Temperature<br>Notch Impact Strength        |
| 8,3 MPa<br>(ASTM D412)                                   | 9,0 MPa<br>(DIN 53504) | Tensile Strength at Yield<br>(Tensile Strength) |
|                                                          |                        | Ball Indentation Hardness<br>(Brinell Hardness) |
| 73 A<br>(ISO 868)                                        | 70 A<br>(DIN 53505)    | Shore Hardness                                  |

| Thermal Properties                      |                                         |                                         |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| -40 °C ... +125 °C / -40 °F ... +257 °F | -50 °C ... +120 °C / -58 °F ... +248 °F | Temperature Resistance<br>(Min ... Max) |

| Chemical Properties      |                          |              |
|--------------------------|--------------------------|--------------|
| consistent               | consistent               | Weak Acids   |
| conditionally consistent | consistent               | Solvents     |
| conditionally consistent | conditionally consistent | Benzine      |
| conditionally consistent | conditionally consistent | Mineral Oils |
| consistent               | conditionally consistent | Other Oils   |
| consistent               | consistent               | Alcohols     |
| consistent               | consistent               | Seawater     |

0



### Special Clamp Insert Materials

Please contact STAUFF for further details on fire-proof clamp body materials, tested and approved according to several international fire-protection standards (such as BS 6853, EN 45545-2, UL 94 and many more).

See pages 156 / 157 for material properties and technical information.





## Special Clamp Body Materials (Selection)

### Preventive Fire Protection



| Material Code   | PA-V0        | PP-DA         | PA-GF30-USR |
|-----------------|--------------|---------------|-------------|
| Basic Material  | Polyamide    | Polypropylene | Polyamide   |
| Standard Colour | Grey / Black | Weiss         | Black       |

| Mechanical Properties                        |                                                                               |                                                                              |                                     |
|----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------|
| Tensile E-Module                             | 1500 MPa<br>(ISO 527-2)                                                       | 1614 N/mm <sup>2</sup> (ISO 527)<br>bei +23 °C / +73.4 °F: 50 mm/min         | 8274 MPa<br>(ASTM D638)             |
| Notch Impact Strength                        | 35 kJ/m <sup>2</sup> at +23 °C / +73.4 °F<br>(acc. to Charpy / ISO 179 / 1eU) | 13 kJ/m <sup>2</sup> at +23 °C / +73.4 °F<br>(acc. to IZOD / ISO 179 / 1eA)  | 15 kJ/m <sup>2</sup><br>(ASTM D256) |
| Low Temperature Notch Impact Strength        |                                                                               | 1,5 kJ/m <sup>2</sup> at -25 °C / -13.0 °F<br>(acc. to IZOD / ISO 179 / 1eA) |                                     |
| Tensile Strength at Yield (Tensile Strength) | 45 MPa<br>(ISO 527-2)                                                         | 12,4 MPa (ISO 527)<br>at +23 °C / +73.4 °F: 50 mm/min                        | 131 MPa<br>(ASTM D638)              |
| Ball Indentation Hardness (Brinell Hardness) | 100 N/mm <sup>2</sup><br>(ISO 2039-1)                                         |                                                                              |                                     |
| Shore Hardness                               |                                                                               |                                                                              |                                     |

| Thermal Properties                   |                                         |                                        |                                         |
|--------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------|
| Temperature Resistance (Min ... Max) | -30 °C ... +120 °C / -22 °F ... +248 °F | -25 °C ... +90 °C / -13 °F ... +194 °F | -30 °C ... +120 °C / -22 °F ... +248 °F |

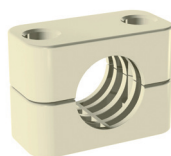
| Features               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals / Properties | <p><b>Tested and approved acc. to UL94 <sup>1</sup></b><br/>(material thickness: 3 mm)</p> <ul style="list-style-type: none"> <li>Classification: V-0 (Vertical Burning Test)</li> </ul> <p><b>Tested and approved acc. to EN 45545-2</b><br/>(material thickness: 3,5 mm)</p> <ul style="list-style-type: none"> <li>Requirements set R22 / R23 / R24 / R26</li> <li>Hazard level HL1 - HL3</li> </ul> <p><b>Tested and approved acc. to DIN 5510, Part 2</b><br/>(material thickness: 3 mm)</p> <ul style="list-style-type: none"> <li>Combustibility classification: S4</li> <li>Smoke development classification: SR2</li> <li>Dripping classification: ST2</li> </ul> <p><b>Tested and approved acc. to NF F 16-101</b><br/>(material thickness: 3 mm)</p> <ul style="list-style-type: none"> <li>Classification: I3 / F2</li> </ul> <p><b>Low Smoke Zero Halogen (LSZH)</b></p> | <p><b>Tested and approved acc. to UL94 <sup>1</sup></b><br/>(material thickness: 3 mm)</p> <ul style="list-style-type: none"> <li>Classification: V-0 (Vertical Burning Test)</li> </ul> <p><b>Tested and approved acc. to Def Stan 07-247</b></p> <ul style="list-style-type: none"> <li>Assessment: category B</li> </ul> <p><b>Approved by the UK Ministry of Defence (MoD)</b></p> <p><b>Low Smoke Zero Halogen (LSZH)</b></p> | <p><b>Tested and approved acc. to ASTM D638</b><br/>(material thickness: 1,5 mm)</p> <ul style="list-style-type: none"> <li>Classification: V-0 (Vertical Burning Test)</li> </ul> <p><b>Tested and approved acc. to NFPA 130</b><br/>(material thickness: 3 mm)</p> <ul style="list-style-type: none"> <li>no burning dripping</li> </ul> <p><b>Halogen Free Flame Retardant (HFFR)</b></p> |

<sup>1</sup> Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).  
The information for PA-V0 has been determined in a conditioned state according to ISO 1110.



## Special Clamp Body Materials (Selection)

## Preventive Fire Protection



| PP6853        | PP-V0         | SA-V0                   | Material Code   |
|---------------|---------------|-------------------------|-----------------|
| Polypropylene | Polypropylene | Thermoplastic Elastomer | Basic Material  |
| White         | Black         | Natural                 | Standard Colour |

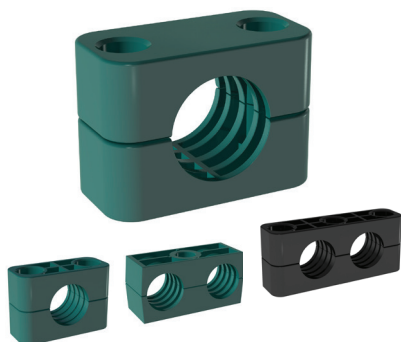
|                                                                             |                                                                 |                                                           | Mechanical Properties                           |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| 1264 MPa<br>(ICE 60811-1-1)                                                 |                                                                 | 113 N/mm <sup>2</sup><br>at +23 °C / +73.4 °F (ASTM D412) | Tensile E-Module                                |
| 17 kJ/m <sup>2</sup> at +23 °C / +73.4 °F<br>(acc. to IZOD / ISO 179 / 1eA) | 5 kJ/m <sup>2</sup> at +23 °C / +73.4 °F<br>(acc. to ISO 180/A) |                                                           | Notch Impact Strength                           |
|                                                                             |                                                                 |                                                           | Low Temperature<br>Notch Impact Strength        |
| 25 MPa<br>(ICE 60811-1-1)                                                   | 24 MPa<br>(ISO 527)                                             | 15,9 MPa<br>(ASTM D412)                                   | Tensile Strength at Yield<br>(Tensile Strength) |
|                                                                             |                                                                 |                                                           | Ball Indentation Hardness<br>(Brinell Hardness) |
|                                                                             |                                                                 | 86 A<br>(ISO 868)                                         | Shore Hardness                                  |

|                                        |                                        |                                        | Thermal Properties                      |
|----------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------|
| -25 °C ... +90 °C / -13 °F ... +194 °F | -25 °C ... +90 °C / -13 °F ... +194 °F | -55 °C ... +90 °C / -67 °F ... +194 °F | Temperature Resistance<br>(Min ... Max) |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                     | Features               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Tested and approved acc. to EN 45545-2</b><br>(material thickness: 3 mm)<br><ul style="list-style-type: none"> <li>Requirements set R22 / R23 / R24 / R26</li> <li>Hazard level HL1 - HL3</li> </ul> <b>Tested and approved acc. to BS 6853</b><br>(Code of practice for fire precautions in the design/construction of passenger carrying trains)<br><ul style="list-style-type: none"> <li>Assessment: category 1a</li> </ul> <b>Compliant to the requirements of London Underground / Metronet</b><br>(standard 2-01001-002: Fire Safety Performance of Materials)<br><b>Tested and approved acc. to DIN 5510, Part 2</b><br>(material thickness: 25 mm)<br><ul style="list-style-type: none"> <li>Combustibility classification: S4</li> <li>Smoke development classification: SR2</li> <li>Dripping classification: ST2</li> </ul> <b>Tested and approved acc. to Def Stan 07-247</b><br><ul style="list-style-type: none"> <li>Assessment: category B</li> </ul> <b>Compliant to the requirements of JRMA</b><br>(Japan Railway Rollingstock & Machinery Association)<br><ul style="list-style-type: none"> <li>Classification: extremely incombustible</li> </ul> <b>Low Smoke Zero Halogen (LSZH)</b> | <b>Tested and approved acc. to UL94 <sup>1</sup></b><br>(material thickness: 3 mm)<br><ul style="list-style-type: none"> <li>Classification: V-0 (Vertical Burning Test)</li> </ul> | <b>Tested and approved acc. to UL94 <sup>1</sup></b><br>(material thickness: 3 mm)<br><ul style="list-style-type: none"> <li>Classification: V-0 (Vertical Burning Test)</li> </ul> | Approvals / Properties |

<sup>1</sup> Successful testing and approval according to UL94 (classification V-0) is equivalent to EN 45545-2 (requirements set R26; hazard level HL3).

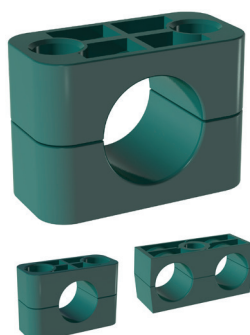
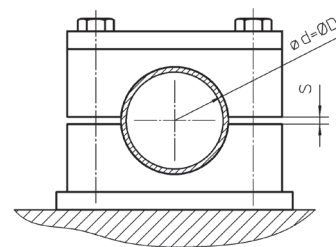

## Standard Clamp Body Designs



### Profiled Design

#### Profiled Inside Surface with Tension Clearance

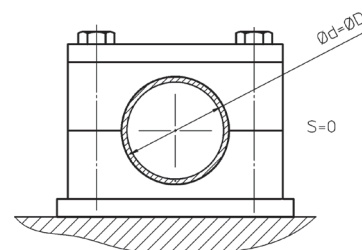
- Available in the Standard, Heavy, Twin and Heavy Twin Series
- Recommended for the safe installation of rigid pipes or tubes
- Available for all commonly used outside diameters and nominal sizes
- Vibration/noise reducing and impact absorbing effect towards the direction of the line provided by the grooves on the inside of the clamp bodies
- Clearance  $S$  between the clamp halves provides tension of the tube or pipe
- To be used as fixed point clamp preventing the line from sliding (see page 161 for Maximum Loads in Pipe Direction)



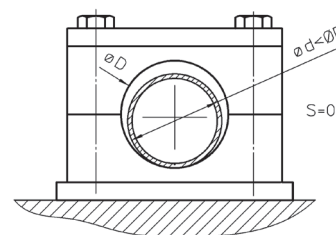
### Type H (Smooth)

#### Smooth Inside Surface w/o Tension Clearance

- Available in the Standard, Heavy and Twin Series
- Recommended for the safe installation of hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Smooth inside surface and chamfered edges avoid damaging of the hose or cable

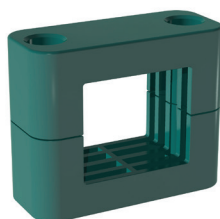


- Choose the diameter  $\phi D$  of the clamp body slightly larger (in accordance to your specific requirements) than the outside diameter  $\phi d$  of the pipe, tube, hose or cable in order to use it as a longitudinal guide allowing the line to slide



### Type RI (with Elastomer Insert)

- Available in the Standard, Heavy and Heavy Twin Series
- Recommended for the extra-gentle installation of pipes, tubes, hoses or cables
- Available for all commonly used outside diameters and nominal sizes
- Elastomer insert made of Thermoplastic Elastomer with a hardness of 73 Shore-A provides most effective reduction of vibration and noise caused by vibration



### Rectangular Design - Type VK

- Available in the Standard Series (STAUFF Group 5)
- Recommended for the safe installation of proximity switches according to DIN EN 60947-5-2 or similar, rectangular construction, with a square of 40 mm x 40 mm (1.57 in x 1.57 in) or 40 mm x 36 mm (1.57 in x 1.42 in)



## Materials and Surface Finishings of Metal Parts

### Materials

Unless otherwise stated, all metal parts (e.g. weld plates, cover plates, bolts, rail nuts etc.) are made of **Carbon Steel** (surface finishing according to material code).

Besides that, all metal parts are also available **ex stock** in two different stainless steel qualities:

#### Stainless Steel V2A

- 1.4301 / 1.4305 (AISI 304 / 303)
- Material code: W4



#### Stainless Steel V4A

- 1.4401 / 1.4571 (AISI 316 / 316 Ti)
- Material code: W5

#### Aluminium

- Aluminium EN AW-6060
- Material code: W85

Alternative materials (e.g. Aluminium) are available upon request. Contact STAUFF for further information.

### Surface Finishings

Unless otherwise stated, all metal parts made of Carbon Steel are available with the following standard surface finishings:

#### Carbon Steel, uncoated

- Material code: W1

#### Carbon Steel, phosphated

- Fe/Znph r 10 according to DIN EN 12476
- Material code: W2

#### Carbon Steel, zinc/nickel-plated

- More than 1200 hours resistance against red rust / base metal corrosion in the salt spray test to DIN EN ISO 9227
- Free of hexavalent chromium Cr(VI)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- Material code: W3

Alternative surface finishings are available upon request. Contact STAUFF for further information.



Original STAUFF Cover Plate with Zinc/Nickel-Coating:  
No signs of corrosion after 1200 hours in the salt spray chamber!



Original STAUFF Cover Plates with alternative surface finishings widely-used by competitors in the market (from left to right):

- Galvanisation and blue-chromating after 96 hours
- Galvanisation and yellow-chromating after 192 hours
- Zinc-coating, thick-film passivation and sealing after 192 hours

In all three cases, signs of white and red rust / base metal corrosion are quite clearly visible! Please do not hesitate to contact STAUFF and ask for a detailed report.

## Thread Conversion Chart

### Metric ISO vs. Unified Coarse (UNC) Thread

Unless otherwise stated, all threaded parts available with Metric ISO thread or unified coarse (UNC) thread.

#### Standard Series (DIN 3015, Part 1)

| Group STAUFF | DIN    | Thread Metric ISO | Unified Coarse |
|--------------|--------|-------------------|----------------|
| 1 to 8       | 0 to 8 | M6                | 1/4-20 UNC     |

#### Heavy Series (DIN 3015, Part 2)

| Group STAUFF | DIN     | Thread Metric ISO | Unified Coarse |
|--------------|---------|-------------------|----------------|
| 3S to 5S     | 1 to 3  | M10               | 3/8-16 UNC     |
| 6S           | 4       | M12               | 7/16-14 UNC    |
| 7S           | 5       | M16               | 5/8-11 UNC     |
| 8S           | 6       | M20               | 3/4-10 UNC     |
| 9S           | 7       | M24               | 7/8-9 UNC      |
| 10S          | 8       | M30               | 1-1/8-7 UNC    |
| 11S to 12S   | 9 to 10 | M30               | 1-1/4-7 UNC    |

#### Twin Series (DIN 3015, Part 3)

| Group STAUFF | DIN    | Thread Metric ISO | Unified Coarse |
|--------------|--------|-------------------|----------------|
| 1D           | 1      | M6                | 1/4-20 UNC     |
| 2D to 5D     | 2 to 5 | M8                | 5/16-18 UNC    |

## Property Classes / Grades of Bolts and Screws



Hexagon Head Bolt



Socket Cap Screw



Slotted Head Screw

| Bolt / Screw Type          | Material Code | Property Class / Grade Metric ISO Threaded Bolts / Screws | Unified Coarse Threaded Bolts / Screws  |
|----------------------------|---------------|-----------------------------------------------------------|-----------------------------------------|
| Hexagon Head Bolt Type AS  | W1, W2, W3    | 8.8 (according to DIN EN ISO 898)                         | 5 (according to SAE J429)               |
|                            | W4            | A2-70 (according to DIN EN ISO 3506)                      | AISI 304 / B8 (according to ASTM A193)  |
|                            | W5            | A4-70 (according to DIN EN ISO 3506)                      | AISI 316 / B8M (according to ASTM A193) |
| Socket Cap Screw Type IS   | W1, W2, W3    | 8.8 (according to DIN EN ISO 898)                         | 5 (according to SAE J429)               |
|                            | W4            | A2-70 (according to DIN EN ISO 3506)                      | AISI 304 / B8 (according to ASTM A193)  |
|                            | W5            | A4-70 (according to DIN EN ISO 3506)                      | AISI 316 / B8M (according to ASTM A193) |
| Slotted Head Screw Type LI | W1, W2, W3    | 4.8 (according to DIN EN ISO 898)                         | 2 (according to SAE J429)               |
|                            | W4            | A2-70 (according to DIN EN ISO 3506)                      | AISI 304 / B8 (according to ASTM A193)  |
|                            | W5            | A4-70 (according to DIN EN ISO 3506)                      | AISI 316 / B8M (according to ASTM A193) |

Unless otherwise stated, the above mentioned property classes / grades apply as standards for bolts and screws supplied by STAUFF. The information indicate the minimum requirements; higher property classes are available upon request. Contact STAUFF for details.



## Basic Installation Instructions



### Installation on Weld Plate

Different types of weld plates are available for all STAUFF Clamps according to DIN 3015 as well as for most of the other series and many custom-designed special clamps.

- Place weld plates in their designated positions. Please make sure these positions are suitable for the expected loads.
- Mark the positions of the weld plates to ensure best alignment.
- Weld the weld plates into position. Elongated weld plates can also be mounted to their positions by using screws or bolts.
- Push bottom clamp half onto weld plate.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

Unless otherwise stated, the bolt lengths indicated for clamps according to DIN 3015 refer to the installation on weld plates and mounting rails as well as multi-level (stacking) installation. For direct installation, different lengths may be required.

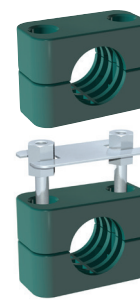


### Installation on Mounting Rail

STAUFF Mounting Rails are available in different heights. STAUFF Rail Nuts are available for all STAUFF Clamps according to DIN 3015 (Heavy Series up to STAUFF Group 6S only) as well as for many custom-designed special clamps.

- Place mounting rails in their designated positions. Please make sure these bases are suitable for the expected loads.
- Mark the positions of the mounting rails to ensure best alignment.
- Weld the mounting rails into position. Mounting rails can also be mounted to their positions by using side-mounting brackets with screws or bolts.
- Insert rail nuts into mounting rail and turn until stop to lock (Standard and Twin Series) or slide in rail nut (Heavy Series).
- Push bottom clamp half onto rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half and cover plate (optional) on top and mount clamp assembly by using screws or bolts.

The exact positions of the clamp assemblies can still be adjusted before being firmly bolted.



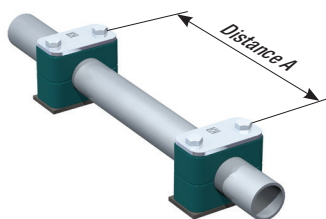
### Multi-Level (Stacking) Installation

Stacking bolts permit the multi-level assembly of clamps of identical group sizes. Safety locking plates inserted between the levels prevent the stacking bolts from turning. The Twin Series also allows stacking of different group sizes (STAUFF Groups 2D to 5D).

- Push bottom clamp half onto weld plate or rail nuts.
- Insert pipe, tube, hose, cable or any other type of line.
- Place second clamp half.
- Insert stacking bolts into the clamp assembly and tighten using the following tightening torques (or in a way that the clamp halves are in contact with the line over the entire internal contact surface):
  - Standard Series** 1 ... 2 N·m / .75 ... 1.5 ft·lb (hand-tightened)
  - Heavy Series** 5 N·m / 3.75 ft·lb
  - Twin Series** 1 ... 2 N·m / .75 ... 1.5 ft·lb (hand-tightened)
- Place safety locking plate on top of clamp assembly.
- Proceed with next levels. Top level to be assembled with cover plate and hexagon head bolts using the tightening torques as indicated on page 161.

STAUFF multi-level clamp assemblies can be mounted both to weld plates or to mounting rails (with rail nuts).

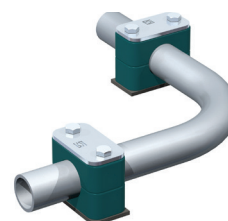
## Recommended Distance between Clamps



Please note: The recommended distances between clamps stated below are standard values and valid for static loads only.

| Outside Diameter<br>(mm) | (in)          | Distance A<br>(m) | (ft)  | Outside Diameter<br>(mm) | (in)            | Distance A<br>(m) | (ft)  |
|--------------------------|---------------|-------------------|-------|--------------------------|-----------------|-------------------|-------|
| 6,0 ... 12,7             | .23 ... .50   | 1,00              | 3,28  | 114,0 ... 168,0          | 4.50 ... 6.60   | 5,00              | 16,40 |
| 12,7 ... 22,0            | .50 ... .86   | 1,20              | 3,94  | 168,0 ... 219,0          | 6.60 ... 8.60   | 6,00              | 19,68 |
| 22,0 ... 32,0            | .86 ... 1.25  | 1,50              | 4,92  | 219,0 ... 324,0          | 8.60 ... 12.70  | 6,70              | 21,98 |
| 32,0 ... 38,0            | 1.25 ... 1.50 | 2,00              | 6,56  | 324,0 ... 356,0          | 12.70 ... 14.00 | 7,00              | 22,96 |
| 38,0 ... 57,0            | 1.5 ... 2.25  | 2,70              | 8,86  | 356,0 ... 406,0          | 14.00 ... 16.00 | 7,50              | 24,60 |
| 57,0 ... 75,0            | 2.25 ... 2.95 | 3,00              | 9,84  | 406,0 ... 419,0          | 16.00 ... 16.50 | 8,20              | 26,90 |
| 75,0 ... 76,1            | 2.95 ... 3.00 | 3,50              | 11,48 | 419,0 ... 508,0          | 16.50 ... 20.00 | 8,50              | 27,88 |
| 76,1 ... 88,9            | 3.00 ... 3.50 | 3,70              | 12,14 | 508,0 ... 521,0          | 20.00 ... 20.50 | 9,00              | 29,52 |
| 88,9 ... 102,0           | 3.50 ... 4.00 | 4,00              | 13,12 | 521,0 ... 558,0          | 20.50 ... 22.00 | 10,00             | 32,80 |
| 102,0 ... 114,0          | 4.00 ... 4.50 | 4,50              | 14,76 | 558,0 ... 800,0          | 22.00 ... 31.50 | 12,50             | 41,00 |

## Installation next to Pipe Bends, Connectors / Couplings and Valves



Please note the following information on the installation of STAUFF Clamps next to pipe bends, connectors / couplings and valves:

### Pipe Bends

Pipe bends should be supported by STAUFF Clamps as close to the bends as possible. Furthermore, it is recommended to design these clamps as fixed point clamps.

### Connections / Couplings

The first clamp should be placed directly next to the connector / coupling. This protects the connector / coupling from vibrations.

### Valves

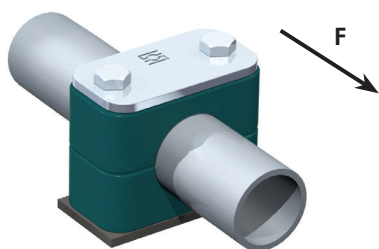
If valves are incorporated in the pipelines, it is recommended that support is provided in front of and behind these valves.

Contact STAUFF for further information.





## Tightening Torques and Maximum Loads In Pipe Direction



All tightening torques and maximum loads in pipe direction refer to STAUFF Clamp Bodies (profiled inside surface with tension clearance) with Cover Plates, Weld Plates and Hexagon Head Bolts according to DIN EN ISO 4014/4017 (DIN 931/933).

The max. load in pipe direction (according to DIN 3015-10:1999) is an average value, determined by three tests at +23 °C / +73.4 °F with a steel pipe according to DIN EN 10220, St37 – rolled surface – taking static friction into consideration.

Sliding starts when the shown values (F) are reached.

### Standard Series (DIN 3015-1:1999)

| Group  |     | Hexagon Head Bolt<br>DIN EN ISO 4014/4017 (DIN 931/933) |                                | Polypropylene (PP)                 |   |                                                   |     | Polyamide (PA)                     |   |                                                   |     | Aluminium (AL)                     |   |                                                   |      |
|--------|-----|---------------------------------------------------------|--------------------------------|------------------------------------|---|---------------------------------------------------|-----|------------------------------------|---|---------------------------------------------------|-----|------------------------------------|---|---------------------------------------------------|------|
| STAUFF | DIN | Metric<br>ISO Thread                                    | Unified Coarse<br>(UNC) Thread | Tightening Torque<br>(N-m) (ft-lb) |   | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |     | Tightening Torque<br>(N-m) (ft-lb) |   | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |     | Tightening Torque<br>(N-m) (ft-lb) |   | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |      |
| 1      | 0   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 0,6                                               | 135 | 10                                 | 7 | 0,6                                               | 135 | 12                                 | 9 | 3,5                                               | 787  |
| 1A     | 1   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 1,1                                               | 247 | 10                                 | 7 | 0,7                                               | 157 | 12                                 | 9 | 4,2                                               | 944  |
| 2      | 2   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 1,3                                               | 292 | 10                                 | 7 | 0,8                                               | 180 | 12                                 | 9 | 4,3                                               | 967  |
| 3      | 3   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 1,4                                               | 315 | 10                                 | 7 | 1,6                                               | 360 | 12                                 | 9 | 4,9                                               | 1101 |
| 4      | 4   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 1,5                                               | 337 | 10                                 | 7 | 1,7                                               | 382 | 12                                 | 9 | 5,0                                               | 1124 |
| 5      | 5   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 1,9                                               | 427 | 10                                 | 7 | 2,0                                               | 450 | 12                                 | 9 | 7,3                                               | 1641 |
| 6      | 6   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 2,0                                               | 450 | 10                                 | 7 | 2,5                                               | 562 | 12                                 | 9 | 8,9                                               | 2000 |
| 7      | 7   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 2,3                                               | 517 | 10                                 | 7 | 3,2                                               | 719 |                                    |   |                                                   |      |
| 8      | 8   | M6                                                      | 1/4-20 UNC                     | 8                                  | 6 | 2,6                                               | 585 | 10                                 | 7 | 3,5                                               | 787 |                                    |   |                                                   |      |

### Heavy Series (DIN 3015-2:1999)

| Group  |     | Hexagon Head Bolt<br>DIN EN ISO 4014/4017 (DIN 931/933) |                                | Polypropylene (PP)                 |     |                                                   |       | Polyamide (PA)                     |     |                                                   |       | Aluminium (AL)                     |     |                                                   |       |
|--------|-----|---------------------------------------------------------|--------------------------------|------------------------------------|-----|---------------------------------------------------|-------|------------------------------------|-----|---------------------------------------------------|-------|------------------------------------|-----|---------------------------------------------------|-------|
| STAUFF | DIN | Metric<br>ISO Thread                                    | Unified Coarse<br>(UNC) Thread | Tightening Torque<br>(N-m) (ft-lb) |     | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |       | Tightening Torque<br>(N-m) (ft-lb) |     | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |       | Tightening Torque<br>(N-m) (ft-lb) |     | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |       |
| 3S     | 1   | M10                                                     | 3/8-16 UNC                     | 12                                 | 9   | 1,6                                               | 360   | 20                                 | 15  | 4,2                                               | 944   | 30                                 | 22  | 12,1                                              | 2720  |
| 4S     | 2   | M10                                                     | 3/8-16 UNC                     | 12                                 | 9   | 2,9                                               | 652   | 20                                 | 15  | 4,5                                               | 1044  | 30                                 | 22  | 15,1                                              | 3395  |
| 5S     | 3   | M10                                                     | 3/8-16 UNC                     | 15                                 | 11  | 3,3                                               | 742   | 25                                 | 18  | 5,1                                               | 1146  | 35                                 | 26  | 15,5                                              | 3485  |
| 6S     | 4   | M12                                                     | 7/16-14 UNC                    | 30                                 | 22  | 8,2                                               | 1843  | 40                                 | 30  | 9,3                                               | 2090  | 55                                 | 41  | 29,5                                              | 6609  |
| 7S     | 5   | M16                                                     | 5/8-11 UNC                     | 45                                 | 33  | 11,0                                              | 2472  | 55                                 | 41  | 15,8                                              | 3551  | 120                                | 86  | 34,9                                              | 7845  |
| 8S     | 6   | M20                                                     | 3/4-10 UNC                     | 80                                 | 59  | 14,0                                              | 3147  | 150                                | 111 | 21,0                                              | 4720  | 220                                | 162 | 50,0                                              | 11240 |
| 9S     | 7   | M24                                                     | 7/8-9 UNC                      | 110                                | 81  | 28,0                                              | 6300  | 200                                | 148 | 32,0                                              | 7193  | 250                                | 184 | 70,6                                              | 15871 |
| 10S    | 8   | M30                                                     | 1-1/8-7 UNC                    | 180                                | 133 | 40,0                                              | 8992  | 350                                | 258 | 48,0                                              | 10790 | 500                                | 369 | 84,5                                              | 18996 |
| 11S    | 9   | M30                                                     | 1-1/4-7 UNC                    | 200                                | 148 | 119,0                                             | 26752 | 370                                | 273 | 125,0                                             | 27650 | 500                                | 369 | 181,5                                             | 40802 |
| 12S    | 10  | M30                                                     | 1-1/4-7 UNC                    | 270                                | 199 | 168,0                                             | 37767 | 450                                | 332 | 180,0                                             | 40465 | 600                                | 443 | 244,5                                             | 54965 |

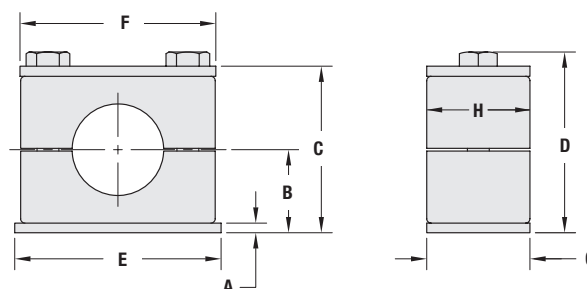
### Twin Series (DIN 3015-2:1999)

| Group  |     | Hexagon Head Bolt<br>DIN EN ISO 4014/4017 (DIN 931/933) |                                | Polypropylene (PP)                 |   |                                                   |     | Polyamide (PA)                     |   |                                                   |     |
|--------|-----|---------------------------------------------------------|--------------------------------|------------------------------------|---|---------------------------------------------------|-----|------------------------------------|---|---------------------------------------------------|-----|
| STAUFF | DIN | Metric<br>ISO Thread                                    | Unified Coarse<br>(UNC) Thread | Tightening Torque<br>(N-m) (ft-lb) |   | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |     | Tightening Torque<br>(N-m) (ft-lb) |   | Maximum Load<br>in Pipe Direction F<br>(kN) (lbf) |     |
| 1D     | 1   | M6                                                      | 1/4-20 UNC                     | 5                                  | 4 | 0,9                                               | 202 | 5                                  | 4 | 0,9                                               | 202 |
| 2D     | 2   | M8                                                      | 5/16-18 UNC                    | 12                                 | 9 | 2,1                                               | 472 | 12                                 | 9 | 2,2                                               | 495 |
| 3D     | 3   | M8                                                      | 5/16-18 UNC                    | 12                                 | 9 | 1,9                                               | 427 | 12                                 | 9 | 2,0                                               | 450 |
| 4D     | 4   | M8                                                      | 5/16-18 UNC                    | 12                                 | 9 | 2,7                                               | 607 | 12                                 | 9 | 2,9                                               | 652 |
| 5D     | 5   | M8                                                      | 5/16-18 UNC                    | 8                                  | 6 | 1,7                                               | 382 | 8                                  | 6 | 2,5                                               | 562 |

Only for the standard clamp body materials which are listed on page 154. In case of doubt, please contact STAUFF in advance.

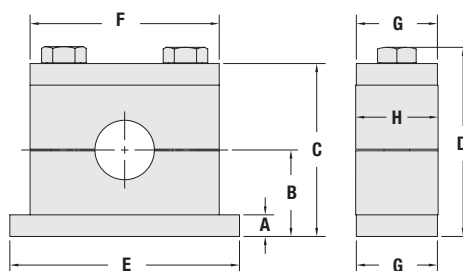


## Dimensions and Weights of Clamp Assemblies



### Standard Series (DIN 3015, Part 1)

| Group  |     | Dimensions (mm /in) |                 |                 |                 |                 |                 |      |      |      |      |      |                             | Weight per 100 Pcs. |
|--------|-----|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|------|------|------|------|-----------------------------|---------------------|
| STAUFF | DIN | A                   | B               |                 | C               |                 | D               |      | E    | F    | G    | H    | SP-**-PP-DP-AS<br>(kg /lbs) |                     |
|        |     | Profiled Design     | Type H (Smooth) | Profiled Design | Type H (Smooth) | Profiled Design | Type H (Smooth) |      |      |      |      |      |                             |                     |
| 1      | 0   | 3                   | 16,5            | 16              | 33              | 32              | 37              | 36   | 31,5 | 28   | 30   | 30   | 6,20                        |                     |
|        |     | .12                 | .65             | .63             | 1.30            | 1.26            | 1.46            | 1.42 | 1.24 | 1.10 | 1.18 | 1.18 | 13,64                       |                     |
| 1A     | 1   | 3                   | 16,5            | 16              | 33              | 32              | 37              | 36   | 36   | 34   | 30   | 30   | 8,10                        |                     |
|        |     | .12                 | .65             | .63             | 1.30            | 1.26            | 1.46            | 1.42 | 1.41 | 1.33 | 1.18 | 1.18 | 17.82                       |                     |
| 2      | 2   | 3                   | 19,5            | 19              | 39              | 38              | 43              | 42   | 42   | 40,5 | 30   | 30   | 9,40                        |                     |
|        |     | .12                 | .77             | 0.75            | 1.54            | 1.50            | 1.69            | 1.65 | 1.65 | 1.59 | 1.18 | 1.18 | 20.68                       |                     |
| 3      | 3   | 3                   | 21              | 20,75           | 42              | 41,5            | 46              | 45,5 | 50   | 48   | 30   | 30   | 11,20                       |                     |
|        |     | .12                 | .83             | .82             | 1.65            | 1.64            | 1.81            | 1.80 | 1.96 | 1.88 | 1.18 | 1.18 | 24.64                       |                     |
| 4      | 4   | 3                   | 24              | 23,75           | 48              | 47,5            | 52              | 51,5 | 60   | 57   | 30   | 30   | 13,70                       |                     |
|        |     | .12                 | .94             | .94             | 1.89            | 1.87            | 2.05            | 2.03 | 2.36 | 2.24 | 1.18 | 1.18 | 30.14                       |                     |
| 5      | 5   | 3                   | 32              | 31,25           | 64              | 62,5            | 68              | 66,5 | 71   | 70   | 30   | 30   | 17,10                       |                     |
|        |     | .12                 | 1.26            | 1.23            | 2.52            | 2.46            | 2.68            | 2.62 | 2.79 | 2.75 | 1.18 | 1.18 | 37.62                       |                     |
| 6      | 6   | 3                   | 36              | 35,25           | 72              | 70,5            | 76              | 74,5 | 88   | 86   | 30   | 30   | 21,30                       |                     |
|        |     | .12                 | 1.42            | 1.39            | 2.83            | 2.78            | 2.99            | 2.94 | 3.46 | 3.38 | 1.18 | 1.18 | 46.86                       |                     |
| 7      | 7   | 5                   | 51,5            | 51              | 103             | 102             | 107             | 106  | 122  | 118  | 30   | 30   | 42,10                       |                     |
|        |     | .20                 | 2.03            | 2.01            | 4.06            | 4.02            | 4.21            | 4.17 | 4.81 | 4.65 | 1.18 | 1.18 | 92.62                       |                     |
| 8      | 8   | 5                   | 64              | 63              | 128             | 126             | 132             | 130  | 148  | 144  | 30   | 30   | 44,00                       |                     |
|        |     | .20                 | 2.52            | 2.48            | 5.04            | 4.96            | 5.20            | 5.12 | 5.83 | 5.67 | 1.18 | 1.18 | 96.80                       |                     |

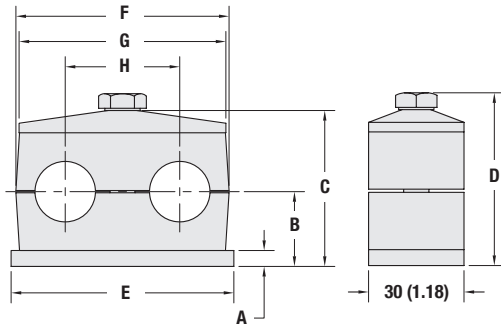


### Heavy Series (DIN 3015, Part 2)

| Group  |     | Dimensions (mm/in) |                 |                 |                 |                 |                 |                 |       |           |       |      |      | Weight per 1 Pc.   |
|--------|-----|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|-----------|-------|------|------|--------------------|
| STAUFF | DIN | A                  | B               | C               |                 | D               |                 |                 |       | F         |       |      |      | SPAL-**-PP-DPAL-AS |
|        |     |                    | Profiled Design | Type H (Smooth) | Profiled Design | Type H (Smooth) | Profiled Design | Type H (Smooth) | E     | PP/ PA/SA | AL    | G    | H    | (kg/lbs)           |
| 3S     | 1   | 8                  | 24              | 23,25           | 48              | 46,5            | 54,4            | 52,9            | 74    | 55        | 56    | 30   | 30,5 | 0,32               |
|        |     | .31                | .94             | .92             | 1.89            | 1.83            | 2.14            | 2.09            | 2.91  | 2.16      | 2.20  | 1.18 | 1.20 | .70                |
| 4S     | 2   | 8                  | 32              | 31,25           | 64              | 62,5            | 70,4            | 68,9            | 86    | 70        | 70    | 30   | 30,5 | 0,40               |
|        |     | .31                | 1.26            | 1.23            | 2.52            | 2.46            | 2.77            | 2.72            | 3.39  | 2.76      | 2.76  | 1.18 | 1.20 | .88                |
| 5S     | 3   | 8                  | 38              | 37              | 76              | 74              | 82,4            | 80,4            | 100   | 85        | 85    | 30   | 30,5 | 0,49               |
|        |     | .31                | 1.50            | 1.46            | 2.99            | 2.91            | 3.24            | 3.17            | 3.94  | 3.35      | 3.35  | 1.18 | 1.20 | 1.08               |
| 6S     | 4   | 10                 | 54,5            | 53,5            | 109             | 107             | 116,5           | 114,5           | 140   | 115       | 120   | 45   | 45   | 1,21               |
|        |     | .39                | 2.15            | 2.11            | 4.29            | 4.21            | 4.59            | 4.51            | 5.51  | 4.53      | 4.72  | 1.77 | 1,77 | 2.66               |
| 7S     | 5   | 10                 | 70              |                 | 140             |                 | 150             |                 | 180   | 154       | 152   | 60   | 60   | 2,30               |
|        |     | .39                | 2.76            |                 | 5.51            |                 | 5.91            |                 | 7.09  | 6.06      | 5.98  | 2.36 | 2,36 | 5.06               |
| 8S     | 6   | 15                 | 99              |                 | 198             |                 | 210,5           |                 | 226   | 206       | 208   | 80   | 80   | 5,56               |
|        |     | .59                | 3.90            |                 | 7.80            |                 | 8.29            |                 | 8.90  | 8.11      | 8.19  | 3.15 | 3.15 | 12.26              |
| 9S     | 7   | 15                 | 115             |                 | 230             |                 | 245             |                 | 270   | 251       | 255   | 90   | 91   | 7,97               |
|        |     | .59                | 4.53            |                 | 9.06            |                 | 9.65            |                 | 10.63 | 9.88      | 10.04 | 3.54 | 3.58 | 17.58              |
| 10S    | 8   | 25                 | 160             |                 | 320             |                 | 338,7           |                 | 340   | 336       | 326   | 120  | 120  | 22,16              |
|        |     | .98                | 6.30            |                 | 12.60           |                 | 13.33           |                 | 13.39 | 13.22     | 12.83 | 4.72 | 4.72 | 48.75              |
| 11S    | 9   | 30                 | 235             |                 | 470             |                 | 488,7           |                 | 520   | 470       | 470   | 160  | 162  | 54,11              |
|        |     | 1.18               | 9.25            |                 | 18.50           |                 | 19.24           |                 | 20.47 | 18.50     | 18.50 | 6.30 | 6.38 | 119.04             |
| 12S    | 10  | 30                 | 295             |                 | 590             |                 | 608,7           |                 | 680   | 630       | 630   | 180  | 182  | 77,40              |
|        |     | 1.18               | 11.61           |                 | 23.23           |                 | 23.96           |                 | 26.77 | 24.80     | 24.80 | 7.09 | 7.16 | 170.28             |



## Dimensions & Weights of Clamp Assemblies



### Twin Series (DIN 3015, Part 3)

| Group  |     | Dimensions <sup>(mm/in)</sup> |                 |                 |                 |                 |                 |                 |      |      |      | Weight per 100 Pcs. |                                          |
|--------|-----|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|------|------|---------------------|------------------------------------------|
| STAUFF | DIN | B                             |                 |                 | C               |                 | D               |                 | E    | F    | G    | H                   | SP-**-**-PP-GD-AS<br><sup>(kg/lbs)</sup> |
|        |     | A                             | Profiled Design | Type H (Smooth) | Profiled Design | Type H (Smooth) | Profiled Design | Type H (Smooth) |      |      |      |                     |                                          |
| 1D     | 1   | 3                             | 16,5            | 16,25           | 37              | 36,5            | 41              | 40,5            | 37   | 36   | 34   | 20                  | 7,60                                     |
|        |     | .12                           | .65             | .64             | 1.46            | 1.44            | 1.61            | 1.59            | 1.46 | 1.42 | 1.34 | .79                 | 16.72                                    |
| 2D     | 2   | 5                             | 18,5            | 18,25           | 39              | 38,5            | 44              | 43,5            | 55   | 53   | 52   | 29                  | 13,50                                    |
|        |     | .20                           | .73             | .72             | 1.54            | 1.52            | 1.73            | 1.71            | 2.17 | 2.09 | 2.05 | 1.14                | 29.70                                    |
| 3D     | 3   | 5                             | 23,5            | 23,25           | 49              | 48,5            | 54              | 53,5            | 70   | 67   | 65   | 36                  | 17,70                                    |
|        |     | .20                           | .93             | .92             | 1.93            | 1.91            | 2.13            | 2.11            | 2.76 | 2.64 | 2.56 | 1.42                | 38.94                                    |
| 4D     | 4   | 5                             | 25              | 24              | 52              | 50              | 57              | 55              | 85   | 80   | 79   | 45                  | 20,40                                    |
|        |     | .20                           | .98             | .94             | 2.05            | 1.97            | 2.24            | 2.17            | 3.35 | 3.15 | 3.11 | 1.77                | 44.88                                    |
| 5D     | 5   | 5                             | 31,5            | 31              | 65              | 64              | 70              | 69              | 110  | 106  | 102  | 56                  | 27,70                                    |
|        |     | .20                           | 1.24            | 1.22            | 2.56            | 2.52            | 2.76            | 2.72            | 4.33 | 4.17 | 4.02 | 2.20                | 60.94                                    |

## Packaging Units (Selection)

### Standard Series (DIN 3015, Part 1)

#### Clamp Bodies (Polypropylene / Polyamide)

| Group  |       | Quantity per Bag<br>(in Pcs.) |
|--------|-------|-------------------------------|
| STAUFF | DIN   |                               |
| 1 - 6  | 0 - 6 | 25                            |
| 7 + 8  | 7 + 8 | 10                            |

#### Clamp Bodies (Aluminium)

| Group  |       | Quantity per Bag |
|--------|-------|------------------|
| STAUFF | DIN   | (in Pcs.)        |
| 1 - 5  | 0 - 5 | 25               |
| 6      | 6     | 10               |

#### Weld Plates (Type SP)

#### Cover Plates (Type DP)

| Group | STAUFF | DIN | Quantity per Bag<br>(in Pcs.) |
|-------|--------|-----|-------------------------------|
| 1 - 6 | 0 - 6  | 25  |                               |
| 7 + 8 | 7 + 8  | 10  |                               |

#### Hexagon Rail Nut (Type SM)

#### Channel Rail Adaptor (Type CRA)

| Group | STAUFF | DIN | Quantity per Bag<br>(in Pcs.) |
|-------|--------|-----|-------------------------------|
| 1 - 8 | 0 - 8  | 50  |                               |

### Heavy Series (DIN 3015, Part 2)

#### Clamp Bodies (Polypropylene / Polyamide)

| Group    |        | Quantity per Bag |
|----------|--------|------------------|
| STAUFF   | DIN    | (in Pcs.)        |
| 3S - 6S  | 1 - 4  | 20               |
| 7S       | 5      | 10               |
| 8S - 12S | 6 - 10 | 1                |

#### Clamp Bodies (Aluminium)

| Group    |        | Quantity per Bag<br>(in Pcs.) |
|----------|--------|-------------------------------|
| STAUFF   | DIN    |                               |
| 3S - 6S  | 1 - 4  | 20                            |
| 7S       | 5      | 10                            |
| 8S - 12S | 6 - 10 | 1                             |

#### Weld Plates (Type SPAL)

#### Cover Plates (Type DPAL)

| Group    |        | Quantity per Bag |
|----------|--------|------------------|
| STAUFF   | DIN    | (in Pcs.)        |
| 3S - 6S  | 1 - 4  | 20               |
| 7S       | 5      | 10               |
| 8S - 12S | 6 - 10 | 1                |

#### Mounting Rail Nut (Type GMV)

#### Channel Rail Adaptor (Type CRA)

| Group   |       | Quantity per Bag<br>(in Pcs.) |
|---------|-------|-------------------------------|
| STAUFF  | DIN   |                               |
| 3S - 6S | 1 - 4 | 40                            |

### Twin Series (DIN 3015, Part 3)

#### Clamp Bodies (Polypropylene / Polyamide)

| Group   |       | Quantity per Bag |
|---------|-------|------------------|
| STAUFF  | DIN   | (in Pcs.)        |
| 1D - 4D | 1 - 4 | 25               |
| 5D      | 5     | 10               |

#### Weld Plates (Type SP)

#### Cover Plates (Type GD)

| Group<br>STAUFF |  | DIN   | Quantity per Bag<br>(in Pcs.) |
|-----------------|--|-------|-------------------------------|
| 1D - 4D         |  | 1 - 4 | 25                            |
| 5D              |  | 5     | 10                            |

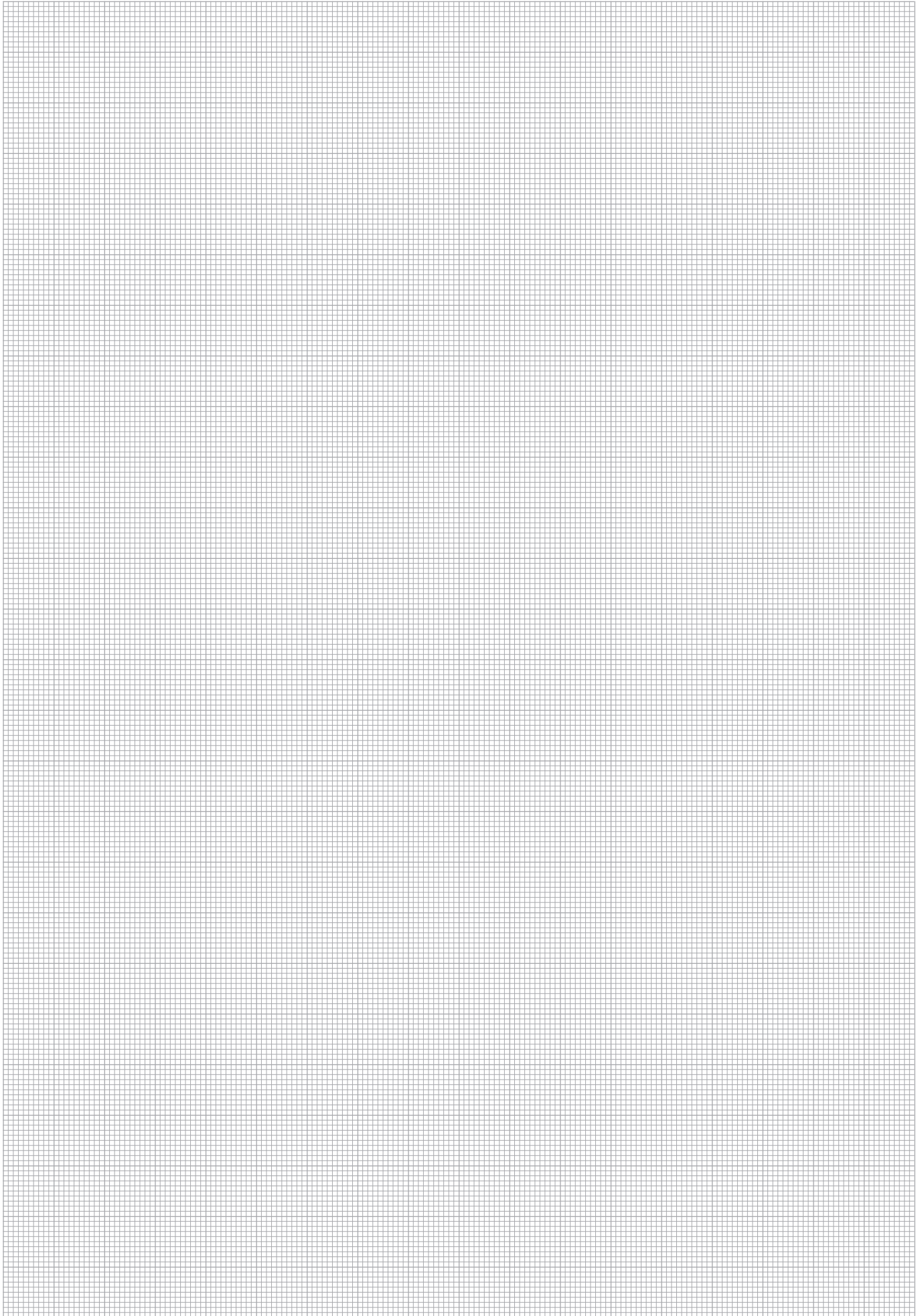
#### Hexagon Rail Nut (Type SM)

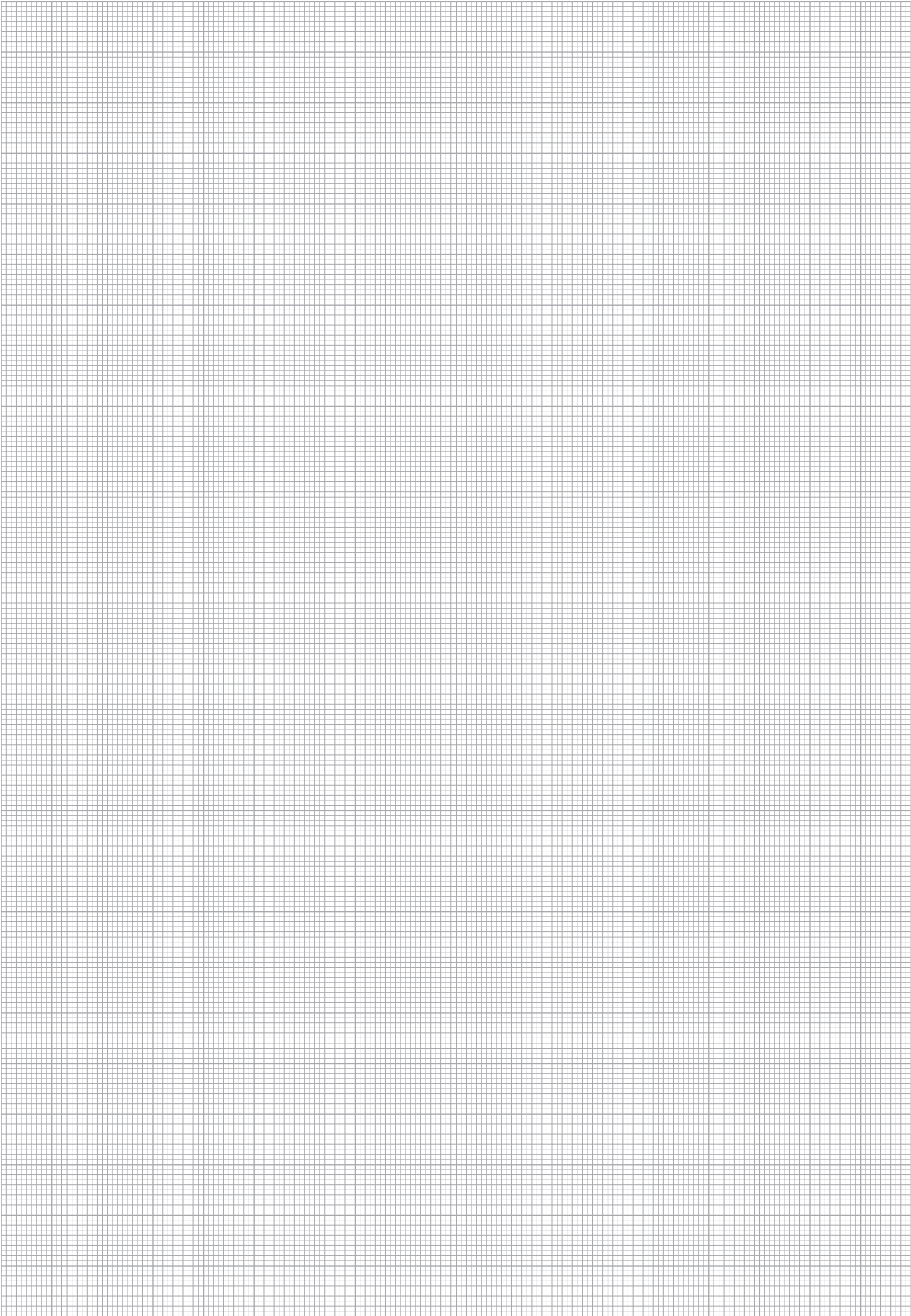
#### Channel Rail Adaptor (Type CRA)

| Group   |       | Quantity per Bag<br>(in Pcs.) |
|---------|-------|-------------------------------|
| STAUFF  | DIN   |                               |
| 1D      | 1     | 50                            |
| 2D - 5D | 2 - 5 | 25                            |

Contact STAUFF and ask for standard packaging units for further components or special packaging options.











|                                       |            |
|---------------------------------------|------------|
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| <b>Global Contact Directory</b> | <b>170</b> |
|---------------------------------|------------|



## Product-Specific Abbreviations

| Abbreviation | Product Category                              | Product Description                                            | Page |
|--------------|-----------------------------------------------|----------------------------------------------------------------|------|
| ACT          | STAUFF ACT Clamps: Anti-Corrosion Technology  | Clamp Body - Standard Series                                   | 74   |
| ACT          | STAUFF ACT Clamps: Anti-Corrosion Technology  | Clamp Body - Twin Series                                       | 82   |
| AF           | Standard Series according to DIN 3015, Part 1 | Stacking Bolt                                                  | 29   |
| AF           | Heavy Series according to DIN 3015, Part 2    | Stacking Bolt                                                  | 47   |
| AF           | Twin Series according to DIN 3015, Part 3     | Stacking Bolt                                                  | 61   |
| AF           | Heavy Twin Series                             | Stacking Bolt                                                  | 68   |
| AG           | Other Types of Clamps                         | Agriculture Twin Series                                        | 150  |
| AL           | Technical Appendix                            | Standard Clamp Body Material                                   | 154  |
| AS           | Standard Series according to DIN 3015, Part 1 | Hexagon Head Bolt                                              | 26   |
| AS           | Heavy Series according to DIN 3015, Part 2    | Hexagon Head Bolt                                              | 45   |
| AS           | Twin Series according to DIN 3015, Part 3     | Hexagon Head Bolt                                              | 59   |
| AS           | Heavy Twin Series                             | Hexagon Head Bolt                                              | 68   |
| AS           | Light Series                                  | Hexagon Head Bolt                                              | 115  |
| BSP          | Standard Series according to DIN 3015, Part 1 | Bridge Weld Plate                                              | 22   |
| CC           | Standard Series according to DIN 3015, Part 1 | Clamp Body - Compact Design                                    | 19   |
| CHC          | Standard Series according to DIN 3015, Part 1 | Clamp Body for Conduit Hoses                                   | 18   |
| CRA          | Standard Series according to DIN 3015, Part 1 | Channel Rail Adaptor                                           | 25   |
| CRA          | Heavy Series according to DIN 3015, Part 2    | Channel Rail Adaptor                                           | 43   |
| CRA          | Twin Series according to DIN 3015, Part 3     | Channel Rail Adaptor                                           | 58   |
| CRA          | Heavy Twin Series                             | Channel Rail Adaptor                                           | 68   |
| DIN1592      | Metal DIN Clamps                              | Heavy Saddle with Tension Clearance - Single-Bolt Design       | 138  |
| DIN1593      | Metal DIN Clamps                              | Heavy Saddle with Tension Clearance - Two-Bolt Design          | 139  |
| DIN1596      | Metal DIN Clamps                              | Light Saddle with Tension Clearance - Single-Bolt Design       | 140  |
| DIN1597      | Metal DIN Clamps                              | Light Saddle with Tension Clearance - Two-Bolt Design          | 141  |
| DIN3567-A    | Metal DIN Clamps                              | Metal Pipe Clamp with Tension Clearance                        | 136  |
| DIN3567-B    | Metal DIN Clamps                              | Metal Pipe Clamp with Tension Clearance (Extended to One Side) | 137  |
| DIT-SR6-SWG  | STAUFF SWG: Stud Welding System               | Distance Tube                                                  | 95   |
| DKS          | Construction Series                           | Construction Series Clamp                                      | 144  |
| DKSV         | Construction Series                           | Construction Series Clamp (for Anchor Bolt Fastening)          | 145  |
| DP           | Standard Series according to DIN 3015, Part 1 | Cover Plate                                                    | 26   |
| DPAL         | Heavy Series according to DIN 3015, Part 2    | Cover Plate for Single Clamps                                  | 44   |
| DPAS         | Heavy Series according to DIN 3015, Part 2    | Cover Plate for Double Clamps                                  | 44   |
| DPAS         | Heavy Twin Series                             | Cover Plate                                                    | 67   |
| DPL          | Light Series                                  | Cover Plate                                                    | 119  |
| DS           | Other Types of Clamps                         | Compact Twin Series                                            | 150  |
| DSP          | Standard Series according to DIN 3015, Part 1 | Twin Weld Plate                                                | 21   |
| EP           | Standard Series according to DIN 3015, Part 1 | Insert                                                         | 28   |
| EPDM         | Technical Appendix                            | Standard Clamp Insert Materials                                | 155  |
| ES           | Standard Series according to DIN 3015, Part 1 | Insert                                                         | 28   |
| FB           | Flat Steel and Round Steel U-Bolt Clamps      | Flat Steel U-Bolt                                              | 126  |
| GD           | Twin Series according to DIN 3015, Part 3     | Cover Plate                                                    | 58   |
| GMV          | Heavy Series according to DIN 3015, Part 2    | Mounting Rail Nut                                              | 42   |
| GMV          | Heavy Twin Series                             | Mounting Rail Nut                                              | 68   |
| IS           | Standard Series according to DIN 3015, Part 1 | Socket Cap Screw                                               | 28   |
| IS           | Heavy Series according to DIN 3015, Part 2    | Socket Cap Screw                                               | 45   |
| IS           | Twin Series according to DIN 3015, Part 3     | Socket Cap Screw                                               | 59   |
| KS           | Construction Series                           | Construction Series Clamp                                      | 144  |
| KSV          | Construction Series                           | Construction Series Clamp (for Anchor Bolt Fastening)          | 145  |
| LBBU         | Light Series                                  | Clamp Body - Single Design                                     | 112  |
| LBBU         | Light Series                                  | Clamp Body - Twin Design                                       | 113  |
| LBBU-DP      | Light Series                                  | Cover Plate                                                    | 115  |
| LBBU-HUE     | Light Series                                  | Sleeve                                                         | 114  |
| LBBU-SP      | Light Series                                  | Weld Plate                                                     | 114  |
| LB           | Light Series                                  | Clamp Body - Single Design                                     | 116  |
| LBG          | Light Series                                  | Clamp Body - Twin Design                                       | 117  |
| LBU          | Light Series                                  | Clamp Body - Twin Design                                       | 117  |
| LI           | Standard Series according to DIN 3015, Part 1 | Slotted Head Screw                                             | 28   |
| LN           | Light Series                                  | Clamp Body - Single Design                                     | 118  |
| LNGF         | Light Series                                  | Clamp Body - Twin Design                                       | 119  |
| LNUF         | Light Series                                  | Clamp Body - Twin Design                                       | 119  |
| NRC          | Standard Series according to DIN 3015, Part 1 | Noise Reduction Clamp                                          | 17   |



## Product-Specific Abbreviations

| Abbreviation        | Product Category                              | Product Description                                    | Page |
|---------------------|-----------------------------------------------|--------------------------------------------------------|------|
| PA                  | Technical Appendix                            | Standard Clamp Body Material                           | 154  |
| PA-V0               | Technical Appendix                            | Special Clamp Body Material                            | 156  |
| PP                  | Technical Appendix                            | Standard Clamp Body Material                           | 154  |
| PP6853              | Technical Appendix                            | Special Clamp Body Material                            | 156  |
| PP-DA               | Technical Appendix                            | Special Clamp Body Material                            | 156  |
| PP-V0               | Technical Appendix                            | Special Clamp Body Material                            | 156  |
| RAP                 | Standard Series according to DIN 3015, Part 1 | Group Weld Plate                                       | 21   |
| RAP                 | Twin Series according to DIN 3015, Part 3     | Group Weld Plate                                       | 55   |
| RAP-MGR             | Standard Series according to DIN 3015, Part 1 | Multi-Group Weld Plate                                 | 23   |
| RB                  | Flat Steel and Round Steel U-Bolt Clamps      | Round Steel U-Bolt                                     | 128  |
| RBD                 | Flat Steel and Round Steel U-Bolt Clamps      | Round Steel U-Bolt (DIN 3570, Type A)                  | 132  |
| RF                  | Other Types of Clamps                         | Pipe / Tube Bushing                                    | 151  |
| RI                  | Standard Series according to DIN 3015, Part 1 | Elastomer Insert                                       | 16   |
| RI                  | Heavy Series according to DIN 3015, Part 2    | Elastomer Insert                                       | 39   |
| RI                  | Heavy Twin Series                             | Clamp Body with Elastomer Inserts                      | 66   |
| RUK                 | Flat Steel and Round Steel U-Bolt Clamps      | Plastic Pipe Saddle (Short) for Flat Steel U-Bolts     | 126  |
| RUK                 | Flat Steel and Round Steel U-Bolt Clamps      | Plastic Pipe Saddle (Short) for Round Steel U-Bolts    | 128  |
| RUL                 | Flat Steel and Round Steel U-Bolt Clamps      | Plastic Pipe Saddle (Long) for Round Steel U-Bolts     | 130  |
| SA                  | Technical Appendix                            | Standard Clamp Body Material                           | 154  |
| SA                  | Technical Appendix                            | Standard Clamp Insert Materials                        | 155  |
| SA-V0               | Technical Appendix                            | Special Clamp Body Material                            | 156  |
| SCS                 | Other Types of Clamps                         | Channel Rail                                           | 149  |
| SI                  | Standard Series according to DIN 3015, Part 1 | Safety Washer                                          | 27   |
| SI                  | Heavy Series according to DIN 3015, Part 2    | Safety Washer                                          | 46   |
| SI                  | Twin Series according to DIN 3015, Part 3     | Safety Locking Plate                                   | 60   |
| SI                  | Heavy Twin Series                             | Socket Cap Screw                                       | 68   |
| SIG                 | Standard Series according to DIN 3015, Part 1 | Safety Locking Plate                                   | 29   |
| SIP                 | Heavy Series according to DIN 3015, Part 2    | Safety Locking Plate                                   | 47   |
| SIP                 | Heavy Twin Series                             | Safety Locking Plate                                   | 68   |
| SIV                 | Twin Series according to DIN 3015, Part 3     | Safety Locking Plate                                   | 60   |
| SM                  | Standard Series according to DIN 3015, Part 1 | Hexagon Rail Nut                                       | 24   |
| SM                  | Twin Series according to DIN 3015, Part 3     | Hexagon Rail Nut                                       | 56   |
| SM                  | Standard Series according to DIN 3015, Part 1 | Hexagon Rail Nut                                       | 24   |
| SM                  | Twin Series according to DIN 3015, Part 3     | Hexagon Rail Nut                                       | 56   |
| SP                  | Standard Series according to DIN 3015, Part 1 | Weld Plate                                             | 20   |
| SP                  | Twin Series according to DIN 3015, Part 3     | Single Weld Plate                                      | 55   |
| SPAD                | Heavy Twin Series                             | Weld Plate                                             | 67   |
| SPAL                | Heavy Series according to DIN 3015, Part 2    | Weld Plate for Single Clamps                           | 40   |
| SPAL-DUEB           | Heavy Series according to DIN 3015, Part 2    | Elongated Weld Plate for Single Clamps                 | 41   |
| SPAS-DUEB           | Heavy Series according to DIN 3015, Part 2    | Weld Plate for Double Clamps                           | 40   |
| SPAS-DUEB           | Heavy Series according to DIN 3015, Part 2    | Elongated Weld Plate for Double Clamps                 | 41   |
| SPC                 | Other Types of Clamps                         | Cushion Clamp                                          | 148  |
| SPV                 | Standard Series according to DIN 3015, Part 1 | Elongated Weld Plate                                   | 20   |
| STC                 | Other Types of Clamps                         | Cushion Clamp                                          | 148  |
| STSV                | Heavy Series according to DIN 3015, Part 2    | Mounting Rail                                          | 42   |
| STSV                | Heavy Twin Series                             | Mounting Rail                                          | 68   |
| SWG-AGS             | STAUFF SWG: Stud Welding System               | Distance Adaptor                                       | 95   |
| SWG-CTH-11-M6       | STAUFF SWG: Stud Welding System               | Cable Tie Holder                                       | 93   |
| SWG-CTH-30-M6-1     | STAUFF SWG: Stud Welding System               | Cable Tie / Tension Belt Holder                        | 93   |
| SWG-CTH-30-M6-2     | STAUFF SWG: Stud Welding System               | Cable Tie / Tension Belt Holder                        | 93   |
| SWG-DIP             | STAUFF SWG: Stud Welding System               | Distance Plate for DIN 3015 Clamps                     | 93   |
| SWG-GC              | STAUFF SWG: Stud Welding System               | Ground Cable                                           | 95   |
| SWG-SF              | STAUFF SWG: Stud Welding System               | Weld Stud with Female Thread                           | 92   |
| SWG-SR6             | STAUFF SWG: Stud Welding System               | Stud Retainer                                          | 95   |
| SWG-WG              | STAUFF SWG: Stud Welding System               | Weld Gun - Arc Ignition                                | 94   |
| SWG-WI06            | STAUFF SWG: Stud Welding System               | Weld Inverter                                          | 94   |
| SWG-WI06-Starterkit | STAUFF SWG: Stud Welding System               | Starterkit                                             | 94   |
| TS                  | Standard Series according to DIN 3015, Part 1 | Mounting Rail                                          | 24   |
| TS                  | Twin Series according to DIN 3015, Part 3     | Mounting Rail                                          | 57   |
| VK                  | Standard Series according to DIN 3015, Part 1 | Clamp Body - Rectangular Design for Proximity Switches | 19   |
| WSP                 | Standard Series according to DIN 3015, Part 1 | Angled Weld Plate                                      | 22   |
| ZR                  | Saddle / Piggyback Clamps                     | Custom-Designed Saddle / Piggyback Clamps              | 122  |
| ZR-518              | Saddle / Piggyback Clamps                     | Saddle / Piggyback Clamp                               | 122  |





## Global Contact Directory

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact information on this page may be subject to changes and additions over time. Frequently updated and complete contact information can always be found at [www.stauff.com](http://www.stauff.com).

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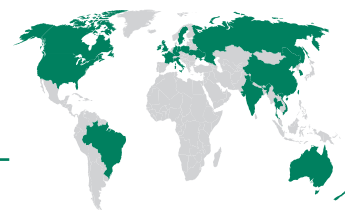
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Introduction

Standard Series according to DIN 3015, Part 1

Heavy Series according to DIN 3015, Part 2

Twin Series according to DIN 3015, Part 3

Heavy Twin Series

STAUFF ACT Clamps: Anti-Corrosion Technology

STAUFF SWG: Stud Welding System

STAUFF Bond: Adhesive Bonded Fastening

Custom-Designed Special Clamps

Light Series

Saddle / Piggyback Clamps

Flat Steel and Round Steel U-Bolt Clamps

Metal DIN Clamps

Construction Series

Other Types of Clamps

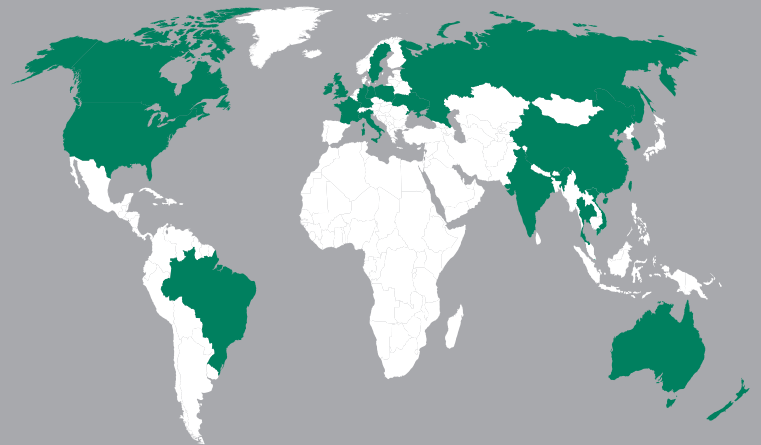
Technical Appendix

Appendix



## Catalogue 1

### STAUFF Clamps



#### Germany

Walter Stauffenberg GmbH & Co. KG  
Im Ehrenfeld 4  
58791 Werdohl

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact STAUFF:

[www.stauff.com/contact](http://www.stauff.com/contact)