

# NORMA Americas Distribution Services Product Catalog





## The Widest Range of Joining Technology

The NORMA Group of companies represent the world's leading joining technology manufacturers. We offer clamps and joining solutions to meet the needs of a wide range of applications and industries – automotive, commercial vehicle, general industrial, marine, and commercial development. Our products have reshaped what is possible with cooling systems, air suction and induction, auxiliary systems and infrastructure.

NORMA Group products are distributed through a global network of highly valued brands – ABA, Breeze, Clamp-All, NORMA, R.G.RAY, Torca, and FiveStar — who specialize in volume distribution within their markets, ensuring that the commercial aftermarket is served economically and efficiently.

With more than 35,000 SKUs available to the global market, NORMA Group is the world's premier supplier of clamping and joining products, helping customers with mission-critical solutions to their unique challenges in the automotive, heavy vehicle, agricultural, marine, and construction industries.



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# Engineering Excellence

NORMA Group brands have been leaders in the development of joining technologies for over a century. With four engineering centers of excellence and specialists working in a variety of engineering disciplines, we are able to develop and refine products to meet the most exacting needs of a growing customer base. Because of our engineering capability, we are able to customize products for unique applications and provide solutions to meet to the most stringent specifications.

Our commitment to product development, thorough quality assurance measures, and rapid distribution, means the right part gets to the right place with the greatest efficiency – and performs flawlessly.

NORMA Group products meet or exceed all applicable standards in each product group, and we are accustomed to having to work within the strict tolerances of the automotive, aerospace, and military manufacturing communities. We look forward to helping you meet your toughest clamping and retaining challenges.



# A World of Solutions, Delivered to You

The NORMA Group's Distribution Services within NORMA Americas offers access to a full range of products produced in North America and Europe through our Distribution Center in Lake Orion, Michigan. Utilizing over 74,000 square feet of warehouse space, and stocking more than 2,500 SKUs, this center offers a full spectrum of packaging, shipping, and labeling solutions to meet the needs of customers.

Our logistical expertise allows us to fill even complex orders rapidly – in-stock SKUs are guaranteed to ship within 48 hours, and many leave our docks within 24 hours of order receipt.

Our corporate culture has always been driven by the desire to exceed the expectations of our customers. This vision is shared by our employees worldwide, and our Distribution Center staff takes pride in their key role in delivering on this promise.



Many of the products featured in this catalog are part of our NORMA Americas QuickShip program and are ready to ship within 48 hours of receipt of your order\*. The NORMA Americas QuickShip program is designed to offer you the highest quality products when you need them.

\*Orders must comply with program specifications. Contact your sales manager for guidelines.

## Helpful Tools to Find Your Products

Our goal is to help you find the right joining solution, quickly and easily. To find all the information you need, this catalog is organized by each brand, and divided into three main sections:

Feature Benefits & Education	Portfolio Quick Reference	Product Reference Pages
Graphically displays and highlights the most important attributes of each brand and product type	Enables you to see, at-a-glance, everything each brand has to offer	Delivers essential technical information and part numbers needed to efficiently order your product

## Get to Know Our Product Reference Pages

These easy-to-read pages are designed to deliver all the information you need to choose and order your product.

**Product name**

**Detailed product description and attributes**

Each color-coded bar indicates a change of product attribute(s) and aligns with the details in the table below.

Simply match the colors.

Each detailed product table contains sizes, part numbers and other essential information needed for ordering. Color-coded columns make this information easier to find

Products proudly made in the USA will show this badge

For your convenience, our website and phone number are located at the bottom of every page

### Breeze Aero-Seal®

The original perforated stainless steel worm-drive clamp for aircraft and industrial applications.

9/16" Band with Arcial Perforations | Quadra-Lock Construction | Per SAE Standard J1508 Type F | Diameter Range 7/16" – 1 1/4"

**100 AERO-SEAL**  
5/16" Plated Hex Screw  
9/16" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

**200 AERO-SEAL**  
5/16" 410 SS Hex Screw  
9/16" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

**300 AERO-SEAL**  
5/16" 300 Series SS Hex Screw  
9/16" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

Units: inches

SAE	100 AERO-SEAL		200 AERO-SEAL		300 AERO-SEAL		Inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
6	100 06 H	0360 0000 016	200 06 H	0360 0020 016	300 06 H	0360 0030 016	7/16	25/32	11	20
8	100 08 H	0360 0000 018	200 08 H	0360 0020 018	300 08 H	0360 0030 018	1/2	29/32	13	23
10	100 10 H	0360 0000 021	200 10 H	0360 0020 021	300 10 H	0360 0030 021	9/16	1 1/16	14	27
12	100 12 H	0360 0000 025	200 12 H	0360 0020 025	300 12 H	0360 0030 025	11/16	1 1/4	17	32
16	100 16 H	0360 0000 030	200 16 H	0360 0020 030	300 16 H	0360 0030 030	13/16	1 1/2	21	38
20	100 20 H	0360 0000 033	200 20 H	0360 0020 033	300 20 H	0360 0030 033	13/16	1 3/4	21	44
24	100 24 H	0360 0000 039	200 24 H	0360 0020 039	300 24 H	0360 0030 039	1 1/16	2	27	51
28	100 28 H	0360 0000 045	200 28 H	0360 0020 045	300 28 H	0360 0030 045	1 5/16	2 1/4	33	57
32	100 32 H	0360 0000 052	200 32 H	0360 0020 052	300 32 H	0360 0030 052	1 9/16	2 1/2	40	64
36	100 36 H	0360 0000 058	200 36 H	0360 0020 058	300 36 H	0360 0030 058	1 13/16	2 3/4	46	70
40	100 40 H	0360 0000 064	200 40 H	0360 0020 064	300 40 H	0360 0030 064	2 1/16	3	52	76
44	100 44 H	0360 0000 071	200 44 H	0360 0020 071	300 44 H	0360 0030 071	2 5/16	3 1/4	59	83
48	100 48 H	0360 0000 077	200 48 H	0360 0020 077	300 48 H	0360 0030 077	2 9/16	3 1/2	65	89
52	100 52 H	0360 0000 083	200 52 H	0360 0020 083	300 52 H	0360 0030 083	2 13/16	3 3/4	71	95
56	100 56 H	0360 0000 090	200 56 H	0360 0020 090	300 56 H	0360 0030 090	3 1/16	4	78	102
60	100 60 H	0360 0000 096	200 60 H	0360 0020 096	300 60 H	0360 0030 096	3 5/16	4 1/4	84	108
64	100 64 H	0360 0010 103	200 64 H	0360 0020 103	300 64 H	0360 0030 103	3 9/16	4 1/2	91	114
72	100 72 H	0360 0000 088	200 72 H	0360 0020 088	300 72 H	0360 0030 088	1 7/8	5	48	127
80	100 80 H	0360 0000 102	200 80 H	0360 0020 102	300 80 H	0360 0030 102	2 1/2	5 1/2	64	140
88	100 88 H	0360 0000 116	200 88 H	0360 0020 116	300 88 H	0360 0030 116	3 1/8	6	79	152
96	100 96 H	0360 0000 129	200 96 H	0360 0020 129	300 96 H	0360 0030 129	3 5/8	6 1/2	92	165
104	100 104 H	0360 0000 142	200 104 H	0360 0020 142	300 104 H	0360 0030 142	4 1/8	7	105	178
128	100 128 H	0360 0000 180	200 128 H	0360 0020 180	300 128 H	0360 0030 180	5 5/8	8 1/2	143	216
152	100 152 H	0360 0000 218	200 152 H	0360 0020 218	300 152 H	0360 0030 218	7 1/8	10	181	254
188	100 188 H	0360 0000 275	200 188 H	0360 0020 275	300 188 H	0360 0030 275	9 3/8	12 1/4	238	311

22 [www.normaAmericasDS.com](http://www.normaAmericasDS.com) | 1.855.NORMA2U

**Application Icons**

- Residential
- Commercial Vehicle
- Passenger Vehicle
- Infrastructure
- Industrial

**Prominent product images and drawings provide valuable visual information**

**Diameter ranges can always be found at the end of each table**

Note: The part numbers featured in this catalog represent the most popular sizes and styles for each product. For many products, other part numbers exist for unique sizes, styles, or materials which may not be included in this catalog. If you don't see the size or style you are looking for, please call the NORMA Americas DS sales team for more information.

## AISI Material Standards

Material	Description
Aluminized	Steel coated with aluminum/silicon on both sides. Provides strength and heat protection

### 200-Series

Material	Description
201	General purpose stainless steel, very economical
202	General purpose stainless steel, very economical. Has more Chromium (Cr), Manganese (Mn), and Nickel (Ni) than 201

### 300-Series

Material	Description
301	Highly ductile stainless steel that has excellent weldability, strength and corrosion resistance
302	Higher strength (due to increased carbon content) than 304, but with the same corrosion resistance
303	Strength and corrosion resistance characteristics similar to 304, but with sulfur and phosphorus for free machining
304	Most common grade of stainless steel, with 18/8 (18% chromium, 8% nickel). Excellent strength and corrosion resistance
309	Strength and corrosion resistance similar to 304, but with better heat resistance
316	Marine-grade stainless steel that contains molybdenum to prevent specific forms of corrosion (especially chloride)

### 400-Series

Material	Description
409	Very economical stainless steel, used principally in automotive exhaust systems
410	High strength stainless steel with excellent wear-resistance
420	High strength, cutlery grade stainless steel, with excellent polishability
430	Good formability, but temperature and corrosion resistance is reduced. Widely used for automotive trim applications
431	Excellent impact strength at high hardness levels. Used in a variety of aircraft and general industrial applications.
439	Higher chromium content than 409 for increased temperature, corrosion, and oxidation resistance
441	Higher grade version of 409, stabilized with titanium and columbium for increased oxidation, creep resistance, and improved formability

## DIN Material Standards

Material	Description
W1	All Parts Entirely Made From Galvanized Steel
W2	Band & Housing: Stainless Steel AISI 430 Screw: Galvanized Steel
W3	All Parts Entirely Made From Stainless Steel AISI 430
W4	All Parts Entirely Made From Stainless Steel AISI 304
W5	All Parts Entirely Made From Stainless Steel AISI 316

## Swedish Material Standards

Material	Description
S10	Material and surface treatment chosen by the manufacturer. Min 72 hours to red rust.* Comparable to W1
S20	Material and surface treatment chosen by the manufacturer. Min. 200 hours to red rust*
S30	All parts in chrome steel 1.4016/AISI 430/SS2320. Min. time to red rust is 500 hours.* Comparable to W3
S40	All parts in stainless steel 1.4301/AISI 304/SS2333. Min. time to red rust is 500 hours.* Comparable to W4
S50	All parts in acid resistant steel 1.4436/AISI 316/ SS2343. Min. time to red rust is 2.000 hours.* Comparable to W5
S60	All parts in acid resistant steel. Min. time to red rust—well over 2.000 hours.* Screw & housing in 1.4436/AISI 316/SS2343 and band in higher grade 1.4547/SS-EN 10 088-1

\*Using industry standard neutral salt-spray test

## International Material Standard Designations

Material	DIN	AISI/AS	BS	AFNOR NF	SS	SUS
S10, W1	Completely Galvanized Steel					
S20	Manufacturer's Choice: Minimum 200 Hours To Red Rust*					
W2	1.4016 In Housing And Band. Screw: 72 Hours To Red Rust*					
S30, W3	1.4016	430	430 S 17	Z8 C17	2320	430
S40, W4	1.4301	304	304 S 15	Z6 CN 18-09	2332	304
S50, W5	1.4401	316	316 S 31	Z3 CND 17-11-1	2343	316
S60	1.4436	316	—	—	2347	—

SS = Swedish Standard    DIN = Deutsches Institut für Normung    AISI/AS = American Iron and Steel Institute / American Standard    BS = British Standard  
AFNOR NF = Association Francaise de Normalisation    SUS = Stainless Use Steel    \*Using industry standard neutral salt-spray test



## The Strength of American Ingenuity

The Breeze Brand introduced, pioneered, and has been supplying perforated worm-drive hose clamps for over 65 years. With a comprehensive product line of OEM preferred worm-drive, T-Bolt, V-Band, and specialty clamps, Breeze joining products are ideal for the demands of the aftermarket as well. Breeze clamps are proudly designed, engineered, tested, and manufactured in America.





residential



commercial



passenger



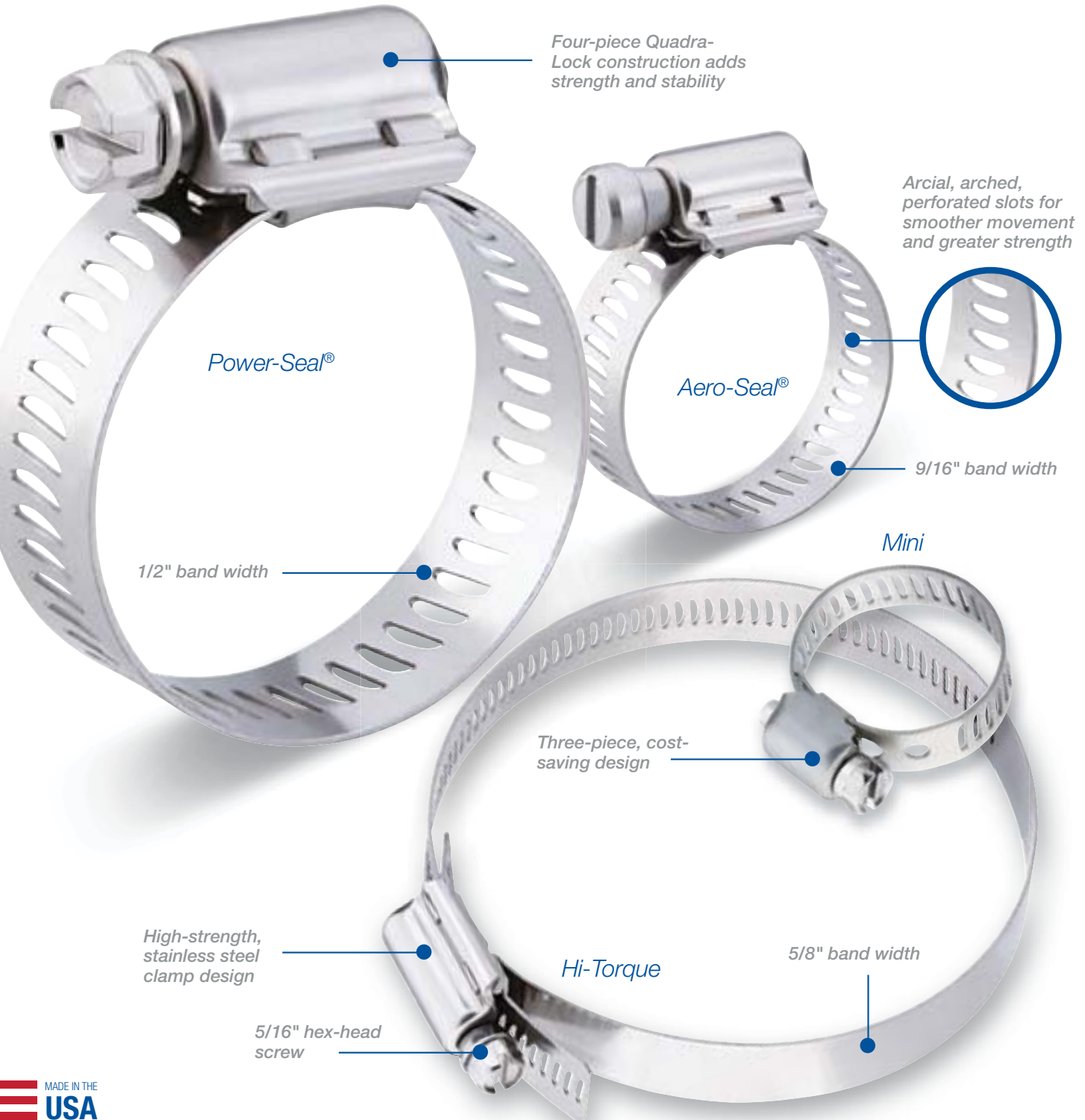
infrastructure

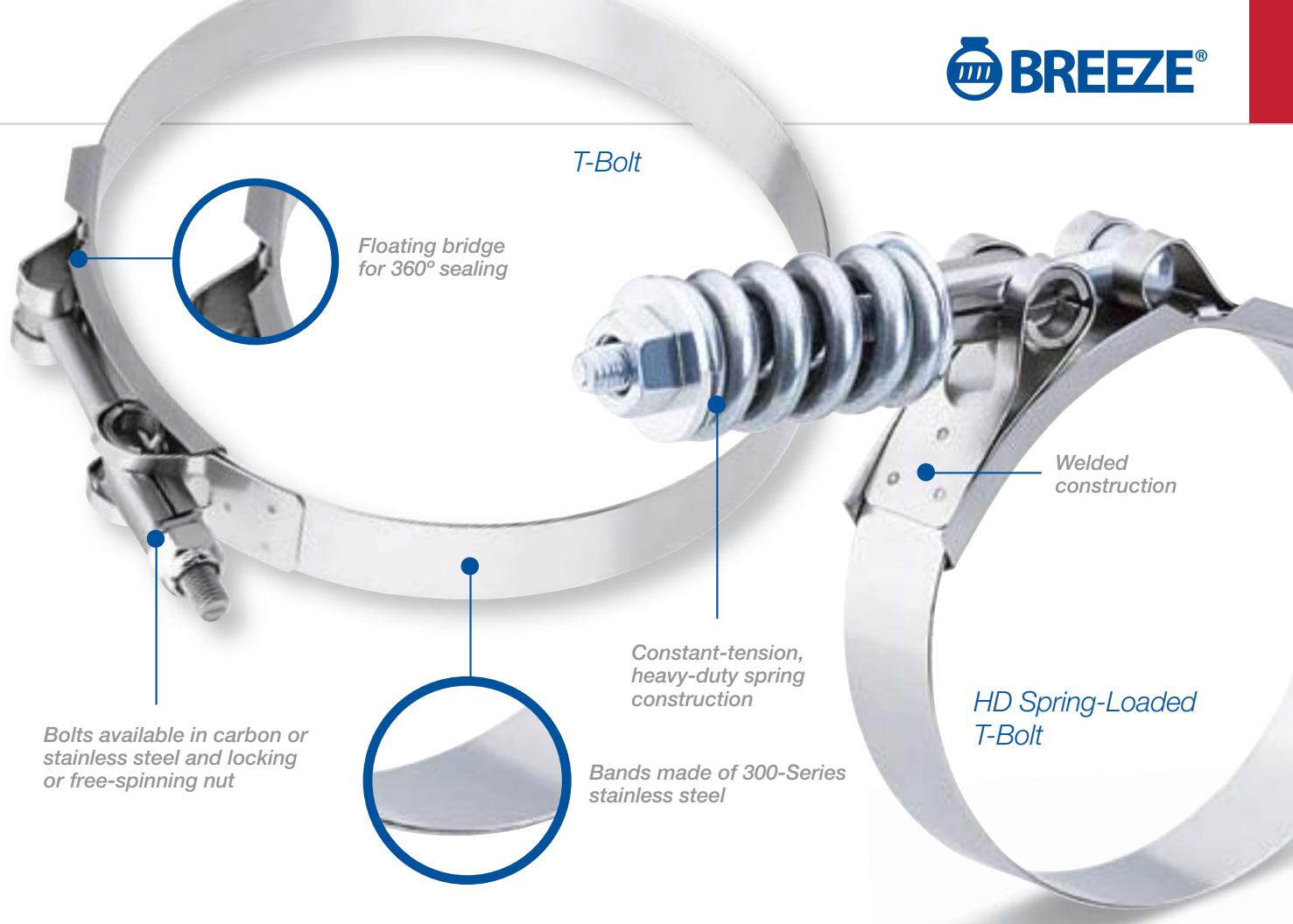


industrial

# Worm-Drive Hose Clamps

Breeze pioneered the worm-drive hose clamp over 65 years ago, and we remain one of the world's foremost producers and innovators of worm-drive clamps for automotive, industrial and marine applications. Breeze worm-drive hose clamps offer a wide range of diameters to meet your requirements and are available with a variety of screw types, housings, and materials to satisfy the needs of nearly any application.





T-Bolt

Floating bridge for 360° sealing

Welded construction

Constant-tension, heavy-duty spring construction

HD Spring-Loaded T-Bolt

Bolts available in carbon or stainless steel and locking or free-spinning nut

Bands made of 300-Series stainless steel

## T-Bolt Hose Clamps

Breeze T-Bolt hose clamps demonstrate the perfect blend of high-strength durability and installation ease. Available in several styles – including standard and heavy-duty Spring versions – Breeze T-Bolts are the industry standard for automotive, industrial and marine uses. A full range of diameter sizes and a wide variety of material choices make Breeze T-Bolts the clear choice for nearly any operational environment.



Constant-tension, standard spring construction

Floating bridge for 360° loading

Spring-Loaded T-Bolt



Merchandisers

See pages 38-39



## Constant-Tension Hose Clamps

Product development innovation has been a Breeze tradition from the very beginning. Nowhere is this more evident than in the Breeze constant-tension hose clamps that maintain performance when there are changes in hose diameter due to fluctuations in operational or environmental temperature.

# V-Band Clamps

Breeze V-Band clamps are designed for flanged joint connections in demanding environments, like heavy-duty diesel exhaust and turbochargers. Available in T-Bolt, Hi-Torque and Aero-Seal design options, Breeze V-Band clamps come in two- and three-segment configurations to provide high-strength joints with positive sealing integrity in a variety of applications.



*V-insert available in two or three segments, ideal for connecting flanged joints*

*V-Band*

*300-Series stainless steel band and insert*



*Available in T-Bolt, Hi-Torque and Aero-Seal designs*

*Locking and free-spinning nut options*

*Welded construction*

# Specialty Clamps

Breeze Aerospace, 'Mil'-Spec, and Jet Aero-Seal® clamps are designed to meet the demanding specifications of military and aerospace applications. These clamps feature corrosion-resistant stainless steel construction and are available in a wide variety of diameter ranges, screw styles and band widths, and can be modified and customized to meet the unique needs of specialty applications.



Smooth band construction minimizes leak paths

Secure-Seal Center-Punch

Bands available in 201 stainless steel or galvanized steel

Double-wrapped for added strength

Heavy-duty stainless steel buckles

Secure-Seal J-Series

## Permanent Band Clamps

Breeze Permanent Band Clamps are ideal for medium- to heavy-duty industrial hose and strapping applications. Breeze Secure-Strap, available in rolled and self-dispensing totes, and Breeze Secure-Seal, available in preformed J-Series or Center-Punch versions, are offered in 201 stainless steel or high-strength galvanized steel. Breeze also offers a wide variety of manual tools along with innovative power-tool solutions to make installation quick and easy.



**Tools & Accessories**  
See pages 35 & 37

## Product Portfolio Quick Reference



### Mini

- | 5/16" Band Width
- | Diameter Range 7/32"– 2 1/2"
- | Plated, 410, 300-Series SS & 316 Stainless Steel
- | SAE Standard J1508 Type M

Page 18



### Make-A-Clamp®

- | 1/2" Band Width, 9/16" Fasteners
- | Continuous Roll of Banding
- | 410 Stainless Steel Screw
- | Various Kit Combinations

Page 21



### Fuel Injection

- | 9mm Band Width
- | Diameter Range 10.5–15.5mm
- | Plated Combi-Slot Hex Screw
- | For All OEM Applications

Page 18



### Aero-Seal®

- | 9/16" Band Width
- | Diameter Range 7/16"– 12 1/4"
- | Three Screw Options
- | SAE Standard J1508 Type F

Pages 22-23



### Power-Seal®

- | 1/2" Band Width
- | Diameter Range 7/16"– 7"
- | Plated, 410, 300-Series SS & 316 Stainless Steel
- | SAE Standard J1508 Type F

Page 19



### Jet Aero-Seal®

- | 9/16" Band Width
- | Diameter Range 9/16"– 12 1/4"
- | All 300-Series SS
- | Quadra-Lock Construction

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### Liner

- | 1/2" Band Width
- | Diameter Range 7/16"– 7"
- | Plated, 410 Stainless Steel
- | SAE Standard J1508 Type F

Page 20



### Aerospace & 'Mil' Spec

- | 9/16" Band Width
- | Diameter Range 7/16"– 10 5/16"
- | Federal Supply Class 4730
- | SAE Standard J1508 Low Pressure Type F

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### Hi-Torque

- | 5/8" Band Width
- | Diameter Range 1"– 9 1/8"
- | 410, 300-Series SS & 316 Stainless Steel Screw
- | SAE Standard J1508 Type HD

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### T-Bolt

- | 3/4" Band Width
- | Diameter Range 1 1/4"– 8 13/16"
- | Plated or 300-Series SS Bolt
- | SAE Standard J1508 Type TB

Page 29



### Constant-Torque® AS

- | 9/16" Band Width
- | Diameter Range 9/16"– 3 3/4"
- | 410 Stainless Steel Screw
- | SAE Standard J1508 Type SLF

Page 27



### Spring-Loaded T-Bolt

- | 3/4" Band Width
- | Diameter Range 1 3/4"– 7 13/16"
- | Standard-Duty Spring
- | SAE Standard J1508 Type SLTB

Page 30



### Constant-Torque® HD

- | 5/8" Band Width
- | Diameter Range 1"– 9 1/8"
- | Plated or 410 Stainless Steel Screw
- | SAE Standard J1508 Type SLHD

Page 27



### HD Spring-Loaded T-Bolt

- | 3/4" Band Width
- | Diameter Range 2 1/16"– 8 5/8"
- | Heavy-Duty Spring
- | SAE Standard J1508 Type SLTB

Page 31



### Super-Seal / Super-Seal HD

- | Worm-Drive Closure
- | Diameter Range 1.42"– 4.64"
- | Plated or 410 Stainless Steel Screw
- | HD includes Ten Belleville Washers

Page 28



### V-Band

- | TB, AS, and Quick-Latch Styles
- | Nominal Diameter Range 2.11"– 14"
- | 400-Series SS Bolt/Screw
- | 40 Degree Insert Angle

Pages 32-33

## Product Portfolio Quick Reference



### Secure-Strap Light-Duty Economy

- | 1/2" Band Width
- | 200' Coil in 201 Stainless Steel
- | .020" Thick Band

Page 34



### Secure-Strap Self-Dispensing

- | Multiple Band Widths
- | 100' Coil in 201 Stainless Steel
- | .030" Thick Band

Page 34



### Secure-Strap Self-Dispensing Tote

- | Multiple Band Widths
- | 100' Coil in 201 Stainless Steel
- | Blue, Green or Red Plastic Totes

Page 34



### Secure-Strap Big-Binder

- | 1 1/4" Band Width
- | 100' Coil in 201 Stainless Steel
- | .044" Thick Band
- | For Heavy-Duty Applications

Page 34



### Seals & Buckles

- | All Heavy-Duty Stainless Steel
- | Ear, Heavy-Duty and Winged Models

Page 35



### Brackets

- | All Heavy-Duty Stainless Steel
- | Threaded Brackets with Bolt & Washer

Page 35



### Spin Tools

- | Spring-Loaded Gripper
- | For All Band Widths
- | J-Series Adaptor Available
- | Pulls up to 6,000 lbs of tension

Page 35



### Tensioner Tools

- | Use with 3/8"– 3/4" Band Widths
- | Light-Duty Pistol Grip Available
- | Heavy-Duty, Light and Portable
- | Rugged Ratchet Action

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### Secure-Seal J-Series

- | Multiple Band Widths
- | Diameter Range 1 1/4"– 8"
- | Galvanized or 201 SS Band
- | Heavy-Duty Buckles

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### 6000 Merchandiser

- | Three Product Assortments
- | Wall Mount or Table Top
- | Full Diameter Coverage
- | 22" x 23" x 8"

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### Secure-Seal Center-Punch

- | 5/8" Band Width
- | Diameter Range 1 1/4"– 8"
- | Galvanized or 201 SS Band

Page 36



### 6100 Merchandiser

- | Two Product Assortments
- | Wall Mount or Table Top
- | Full Diameter Coverage
- | 14" x 18" x 8"

Page 39



### PowerGrip Tool

- | Use with 5/8" or 3/4" Band Widths
- | Tensions, Bolts and Cuts
- | Unlimited Take-up
- | Ergonomic Grip

Page 37



### 6200 Merchandiser

- | Three Product Assortments
- | Wall Mount or Table Top
- | Full Diameter Coverage
- | 22" x 17" x 6"

Page 39



### Center-Punch Tool

- | Use with 5/8" or 3/4" Band Widths
- | For Center-Punch Style Clamps
- | Lightweight
- | Rugged Ratchet Action

Page 37

# Breeze Mini



A lightweight, streamlined hose clamp generally used in small diameter applications, such as air and fuel lines.

5/16" Band with Arcial Perforations | Three-Piece Construction | SAE Standard J1508 Type M | Diameter Range 7/32" – 2 1/2"

### 3500 MINI

1/4" Plated Hex Screw  
5/16" Band in 300-Series SS  
One-Piece Housing in 300-Series SS

### 3600 MINI

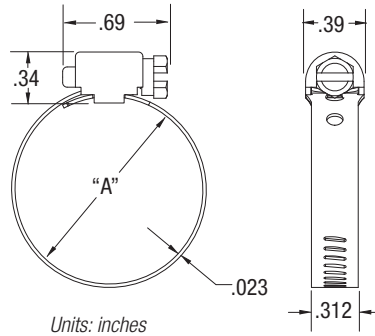
1/4" 410 Stainless Steel Hex Screw  
5/16" Band in 300-Series SS  
One-Piece Housing in 300-Series SS

### 3700 MINI

1/4" 300-Series SS Hex Screw  
5/16" Band in 300-Series SS  
One-Piece Housing in 300-Series SS

### 3800 MINI

1/4" 316 Stainless Steel Hex Screw  
5/16" Band in 316 Stainless Steel  
One-Piece Housing in 316 Stainless Steel



SAE	3500 MINI		3600 MINI		3700 MINI		3800 MINI		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
4	3504	0360 0102 011	3604	0360 0103 011	3704	0360 0104 011	3804	0360 0105 011	7/32	5/8	6	16
6	3506	0360 0102 016	3606	0360 0103 016	3706	0360 0104 016	3806	0360 0105 016	7/16	25/32	11	20
8	3508	0360 0102 018	3608	0306 0103 018	3708	0360 0104 018	3808	0360 0105 018	1/2	29/32	13	23
10	3510	0360 0102 021	3610	0306 0103 021	3710	0360 0104 021	3810	0360 0105 021	9/16	1 1/16	14	27
12	3512	0360 0102 025	3612	0306 0103 025	3712	0360 0104 025	3812	0360 0105 025	11/16	1 1/4	17	32
16	3516	0360 0102 031	3616	0306 0103 031	3716	0360 0104 031	3816	0360 0105 031	15/16	1 1/2	24	38
20	3520	0360 0102 037	3620	0306 0103 037	3720	0360 0104 037	3820	0360 0105 037	1 3/16	1 3/4	30	44
24	3524	0360 0102 044	3624	0306 0103 044	3724	0360 0104 044	3824	0360 0105 044	1 7/16	2	37	51
28	3528	0360 0102 050	3628	0306 0103 050	3728	0360 0104 050	3828	0360 0105 050	1 11/16	2 1/4	43	57
32	3532	0360 0102 057	3632	0306 0103 057	3732	0360 0104 057	3832	0360 0105 057	1 15/16	2 1/2	49	64

# Breeze Fuel Injection



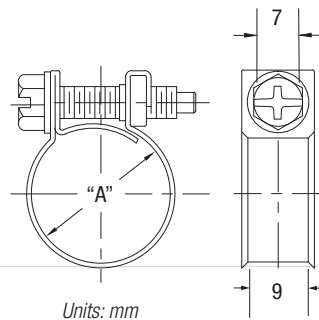
A small-diameter clamp for automotive fuel injection hoses; approved for all OEM applications.

Socket or Screwdriver Adjustable | SAE Standard J1508 Type FE | Diameter Range 10.5mm–15.5mm

### FUEL INJECTION

Zinc-Plated Combi-Slot Hex Head Screw  
9mm Band in Plated Steel  
Clamp Secured Nut

FUEL INJECTION		inches		mm (A)	
Brand PN	Global PN	min	max	min	max
FI 4 PB	0363 0000 012	0.41	0.49	10.5	12.5
FI 5 PB	0363 0000 014	0.49	0.57	12.5	14.5
FI 6 PB	0363 0000 015	0.53	0.61	13.5	15.5



# Breeze Power-Seal®



A general purpose automotive and industrial worm-drive hose clamp with arcial perforations for added strength.

1/2" Band with Arcial Perforations | Quadra-Lock Construction | SAE Standard J1508 Type F | Diameter Range 7/16" – 7"

## 62000 POWER-SEAL

5/16" Plated Hex Screw  
1/2" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

## 64000 POWER-SEAL

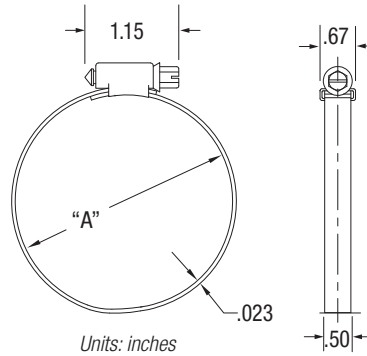
5/16" 410 Stainless Steel Hex Screw  
1/2" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

## 63000 POWER-SEAL

5/16" 300-Series SS Hex Screw  
1/2" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

## 66000 POWER-SEAL

5/16" 316 Stainless Steel Hex Screw  
1/2" Band in 316 Stainless Steel  
Two-Piece Housing in 316 Stainless Steel



SAE	62000 POWER-SEAL		64000 POWER-SEAL		63000 POWER-SEAL		66000 POWER-SEAL		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
6	62006H	0361 0114 016	64006H	0361 0116 016	63006H	0361 0115 016	66006H	0361 0117 016	7/16	25/32	11	20
8	62008H	0361 0114 018	64008H	0361 0116 018	63008H	0361 0115 018	66008H	0361 0117 018	1/2	29/32	13	23
10	62010H	0361 0114 021	64010H	0361 0116 021	63010H	0361 0115 021	66010H	0361 0117 021	9/16	1 1/16	14	27
12	62012H	0361 0114 025	64012H	0361 0116 025	63012H	0361 0115 025	66012H	0361 0117 025	11/16	1 1/4	17	32
16	62016H	0361 0114 030	64016H	0361 0116 030	63016H	0361 0115 030	66016H	0361 0117 030	13/16	1 1/2	21	38
20	62020H	0361 0114 033	64020H	0361 0116 033	63020H	0361 0115 033	66020H	0361 0117 033	13/16	1 3/4	21	44
24	62024H	0361 0114 039	64024H	0361 0116 039	63024H	0361 0115 039	66024H	0361 0117 039	1 1/16	2	27	51
28	62028H	0361 0114 045	64028H	0361 0116 045	63028H	0361 0115 045	66028H	0361 0117 045	1 5/16	2 1/4	33	57
32	62032H	0361 0114 052	64032H	0361 0116 052	63032H	0361 0115 052	66032H	0361 0117 052	1 9/16	2 1/2	40	64
36	62036H	0361 0114 058	64036H	0361 0116 058	63036H	0361 0115 058	66036H	0361 0117 058	1 13/16	2 3/4	46	70
40	62040H	0361 0114 053	64040H	0361 0116 053	63040H	0361 0115 053	66040H	0361 0117 064	2 1/16	3	52	76
44	62044H	0361 0114 059	64044H	0361 0116 059	63044H	0361 0115 059	66044H	0361 0117 071	2 5/16	3 1/4	59	83
48	62048H	0361 0114 065	64048H	0361 0116 065	63048H	0361 0115 065	66048H	0361 0117 077	2 9/16	3 1/2	65	89
52	62052H	0361 0114 072	64052H	0361 0116 072	63052H	0361 0115 072	66052H	0361 0117 083	2 13/16	3 3/4	71	95
56	62056H	0361 0114 083	64056H	0361 0116 083	63056H	0361 0115 083	66056H	0361 0117 090	3 1/16	4	78	102
60	62060H	0361 0114 084	64060H	0361 0116 084	63060H	0361 0115 084	66060H	0361 0117 096	3 5/16	4 1/4	84	108
64	62064H	0361 0114 091	64064H	0361 0116 091	63064H	0361 0115 091	66064H	0361 1097 102	3 9/16	4 1/2	91	114
72	62072H	0361 0114 088	64072H	0361 0116 088	63072H	0361 0115 088	66072H	0361 0117 088	1 7/8	5	48	127
80	62080H	0361 0114 102	64080H	0361 0116 102	63080H	0361 0115 102	66080H 5P	0361 1093 127	2 1/2	5 1/2	64	140
88	62088H	0361 0114 116	64088H	0361 0116 116	63088H	0361 0115 116	66088H 5P	0361 0117 116	3 1/8	6	79	152
96	62096H	0361 0114 129	64096H	0361 0116 129	63096H	0361 0115 129	66096H 5P	0361 1090 152	3 5/8	6 1/2	92	165
104	62104H	0361 0114 141	64104H	0361 0116 142	63104H	0361 0115 142	66104H 5P	0361 0117 142	4 1/8	7	105	178

# Breeze Liner



Liner clamps afford maximum protection to soft hoses while providing a true concentric seal.

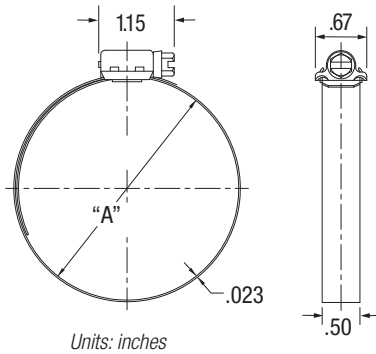
1/2" Lined Band | Quadra-Lock Construction | SAE Standard J1508 Type F | Larger Sizes have 9/16" Band | Diameter Range 7/16" – 7"

## 9200 LINER

- 5/16" Plated Hex Screw
- 1/2" Lined Band in 300-Series SS
- Two-Piece Housing in 300-Series SS

## 9400 LINER

- 5/16" 410 Stainless Steel Hex Screw
- 1/2" Lined Band in 300-Series SS
- Two-Piece Housing in 300-Series SS



SAE	9200 LINER		9400 LINER		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
6	9206H	0361 0200 016	9406H	0361 0202 016	7/16	25/32	11	20
8	9208H	0361 0200 018	9408H	0361 0122 018	1/2	29/32	13	23
10	9210H	0361 0200 021	9410H	0361 0122 021	9/16	1 1/16	14	27
12	9212H	0361 0200 025	9412H	0361 0122 025	11/16	1 1/4	17	32
16	9216H	0361 0200 030	9416H	0361 0122 030	13/16	1 1/2	21	38
20	9220H	0361 0200 033	9420H	0361 0122 033	13/16	1 3/4	21	44
24	9224H	0361 0200 039	9424H	0361 0122 039	1 1/16	2	27	51
28	9228H	0361 0200 045	9428H	0361 0122 045	1 5/16	2 1/4	33	57
32	9232H	0361 0200 052	9432H	0361 0122 052	1 9/16	2 1/2	40	64
36	9236H	0361 0200 058	9436H	0361 0122 058	1 13/16	2 3/4	46	70
40	9240H	0361 0200 064	9440H	0361 0122 064	2 1/16	3	52	76
44	9244H	0361 0200 071	9444H	0361 0122 071	2 5/16	3 1/4	59	83
48	9248H	0361 0200 077	9448H	0361 0122 077	2 9/16	3 1/2	65	89
52	9252H	0361 0200 083	9452H	0361 0122 083	2 13/16	3 3/4	71	95
56	9256H	0361 0200 090	9456H	0361 0122 090	3 1/16	4	78	102
60	9260H	0361 0200 096	9460H	0361 0122 096	3 5/16	4 1/4	84	108
64	9264H	0361 0200 103	9464H	0361 0122 103	3 9/16	4 1/2	91	114
72	9272H	0361 0200 116	9472H	0361 0122 116	4 1/8	5	105	127
80	9280H	0361 0200 129	9480H	0361 0122 129	4 5/8	5 1/2	117	140

### LINER – 9/16" BAND

88	9288	0360 0550 141	9488	0360 0560 141	5 1/8	6	130	152
96	9296	0360 0550 154	9496	0360 0560 154	5 5/8	6 1/2	143	165
104	92104	0361 0550 142	94104	0361 0560 142	6 1/8	7	156	178

# Breeze Make-A-Clamp<sup>®</sup>

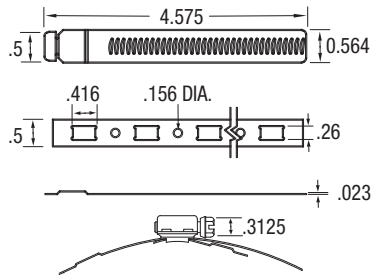


A maintenance "clamp system" that allows you to make any size 100% stainless steel worm-drive clamp.

1/2" Wide Continuous Roll of Banding Material | 9/16" Wide Fasteners | 100% Stainless Steel | Custom Diameter Ranges

## MAKE-A-CLAMP 4000

410 Stainless Steel Hex Screw  
300-Series SS Band and Housing  
Worm-Drive Clamp with Arcial Perforations  
Various Kit Combinations Available



Units: inches



MAKE-A-CLAMP 4000		Kit Sizes And Descriptions
Brand PN	Global PN	
4000	0364 0200 025	Mini Kit: 8-1/2 Ft. Band, 3 Adjustable Fasteners, 1 Band Splice
4001	0364 0201 003	Kit with 100 Ft. Band, 25 Adjustable Fasteners, 10 Band Splices
4002	0364 0202 030	Kit with 50 Ft. Band, 10 Adjustable Fasteners, 5 Band Splices
4003	0364 0203 125	Box of 25 Adjustable Fasteners
4004	0364 0204 100	Box of 10 Adjustable Fasteners
4005	0364 0205 300	Box with 100 Ft. Band, 10 Band Splices
4006	0364 0206 000	Box with 50 Ft. Band, 5 Band Splices
4007	0364 0207 050	6" Demonstrator Clamp System
4008	0364 0208 000	Box of 10 Band Splices

# Breeze Aero-Seal®



The original perforated stainless steel worm-drive clamp for aircraft and industrial applications.

9/16" Band with Arcial Perforations | Quadra-Lock Construction | Per SAE Standard J1508 Type F | Diameter Range 7/16" – 12 1/4"

## 100 AERO-SEAL

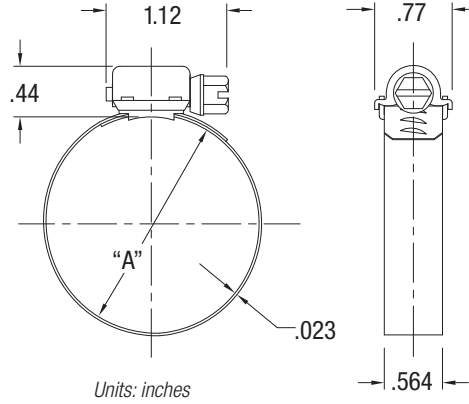
- 5/16" Plated Hex Screw
- 9/16" Band in 300-Series SS
- Two-Piece Housing in 300-Series SS

## 200 AERO-SEAL

- 5/16" 410 Stainless Steel Hex Screw
- 9/16" Band in 300-Series SS
- Two-Piece Housing in 300-Series SS

## 300 AERO-SEAL

- 5/16" 300-Series SS Hex Screw
- 9/16" Band in 300-Series SS
- Two-Piece Housing in 300-Series SS



SAE	100 AERO-SEAL		200 AERO-SEAL		300 AERO-SEAL		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
6	100 06 H	0360 0000 016	200 06 H	0360 0020 016	300 06 H	0360 0030 016	7/16	25/32	11	20
8	100 08 H	0360 0000 018	200 08 H	0360 0020 018	300 08 H	0360 0030 018	1/2	29/32	13	23
10	100 10 H	0360 0000 021	200 10 H	0360 0020 021	300 10 H	0360 0030 021	9/16	1 1/16	14	27
12	100 12 H	0360 0000 025	200 12 H	0360 0020 025	300 12 H	0360 0030 025	11/16	1 1/4	17	32
16	100 16 H	0360 0000 030	200 16 H	0360 0020 030	300 16 H	0360 0030 030	13/16	1 1/2	21	38
20	100 20 H	0360 0000 033	200 20 H	0360 0020 033	300 20 H	0360 0030 033	13/16	1 3/4	21	44
24	100 24 H	0360 0000 039	200 24 H	0360 0020 039	300 24 H	0360 0030 039	1 1/16	2	27	51
28	100 28 H	0360 0000 045	200 28 H	0360 0020 045	300 28 H	0360 0030 046	1 5/16	2 1/4	33	57
32	100 32 H	0360 0000 052	200 32 H	0360 0020 052	300 32 H	0360 0030 052	1 9/16	2 1/2	40	64
36	100 36 H	0360 0000 058	200 36 H	0360 0020 058	300 36 H	0360 0030 058	1 13/16	2 3/4	46	70
40	100 40 H	0360 0000 064	200 40 H	0360 0020 064	300 40 H	0360 0030 064	2 1/16	3	52	76
44	100 44 H	0360 0000 071	200 44 H	0360 0020 071	300 44 H	0360 0030 071	2 5/16	3 1/4	59	83
48	100 48 H	0360 0000 077	200 48 H	0360 0020 077	300 48 H	0360 0030 077	2 9/16	3 1/2	65	89
52	100 52 H	0360 0000 083	200 52 H	0360 0020 083	300 52 H	0360 0030 083	2 13/16	3 3/4	71	95
56	100 56 H	0360 0000 090	200 56 H	0360 0020 090	300 56 H	0360 0030 090	3 1/16	4	78	102
60	100 60 H	0360 0000 096	200 60 H	0360 0020 096	300 60 H	0360 0030 096	3 5/16	4 1/4	84	108
64	100 64 H	0360 0010 103	200 64 H	0360 0020 103	300 64 H	0360 0030 103	3 9/16	4 1/2	91	114
72	100 72 H	0360 0000 088	200 72 H	0360 0020 088	300 72 H	0360 0030 088	1 7/8	5	48	127
80	100 80 H	0360 0000 102	200 80 H	0360 0020 102	300 80 H	0360 0030 102	2 1/2	5 1/2	64	140
88	100 88 H	0360 0000 116	200 88 H	0360 0020 116	300 88 H	0360 0030 116	3 1/8	6	79	152
96	100 96 H	0360 0000 129	200 96 H	0360 0020 129	300 96 H	0360 0030 129	3 5/8	6 1/2	92	165
104	100 104 H	0360 0000 142	200 104 H	0360 0020 142	300 104 H	0360 0030 142	4 1/8	7	105	178
128	100 128 H	0360 0000 180	200 128 H	0360 0020 180	300 128 H	0360 0030 180	5 5/8	8 1/2	143	216
152	100 152 H	0360 0000 218	200 152 H	0360 0020 218	300 152 H	0360 0030 218	7 1/8	10	181	254
188	100 188 H	0360 0000 275	200 188 H	0360 0020 275	300 188 H	0360 0030 275	9 3/8	12 1/4	238	311



# Breeze Aero-Seal<sup>®</sup> Specialty Screw

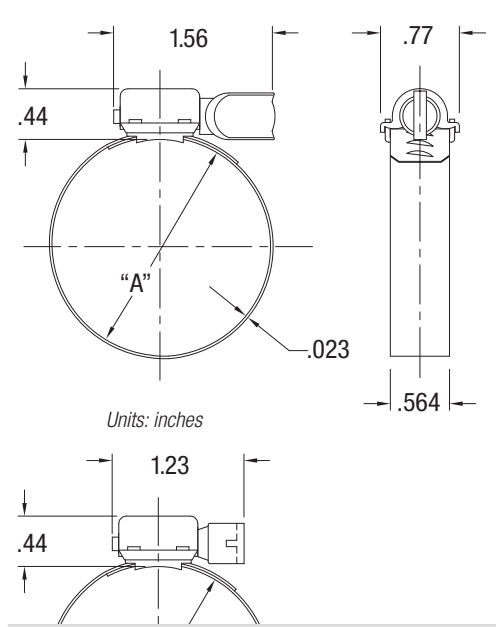
The original perforated stainless steel worm-drive clamp for aircraft and industrial applications.



Thumb Wing or Safety Screw Options | Quadra-Lock Construction | Per SAE Standard J1508 Type F | Diameter Range 7/16" – 12 1/4"

**200 AERO-SEAL THUMB WING**  
 5/16" 410 Stainless Steel Thumb Wing Screw  
 9/16" Band in 300-Series SS  
 Two-Piece Housing in 300-Series SS

**200 AERO-SEAL SAFETY**  
 5/16" 410 Stainless Steel Safety Screw  
 9/16" Band in 300-Series SS  
 Two-Piece Housing in 300-Series SS



SAE	200 AERO-SEAL THUMB WING		200 AERO-SEAL SAFETY		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
6	200 06 W	0360 0022 016	200 06 S	0360 0021 016	7/16	25/32	11	20
8	200 08 W	0360 0022 018	200 08 S	0360 0021 018	1/2	29/32	13	23
10	200 10 W	0360 0022 021	200 10 S	0360 0021 021	9/16	1 1/16	14	27
12	200 12 W	0360 0022 025	200 12 S	0360 0021 025	11/16	1 1/4	17	32
16	200 16 W	0360 0022 030	200 16 S	0360 0021 030	13/16	1 1/2	21	38
20	200 20 W	0360 0022 033	200 20 S	0360 0021 033	13/16	1 3/4	21	44
24	200 24 W	0360 0022 039	200 24 S	0360 0021 039	1 1/16	2	27	51
28	200 28 W	0360 0022 045	200 28 S	0360 0021 045	1 5/16	2 1/4	33	57
32	200 32 W	0360 0022 052	200 32 S	0360 0021 052	1 9/16	2 1/2	40	64
36	200 36 W	0360 0022 058	200 36 S	0360 0021 058	1 13/16	2 3/4	46	70
40	200 40 W	0360 0022 064	200 40 S	0360 0021 064	2 1/16	3	52	76
44	200 44 W	0360 0022 071	200 44 S	0360 0021 071	2 5/16	3 1/4	59	83
48	200 48 W	0360 0022 077	200 48 S	0360 0021 077	2 9/16	3 1/2	65	89
52	200 52 W	0360 0022 083	200 52 S	0360 0021 083	2 13/16	3 3/4	71	95
56	200 56 W	0360 0022 090	200 56 S	0360 0021 090	3 1/16	4	78	102
60	200 60 W	0360 0022 096	200 60 S	0360 0021 096	3 5/16	4 1/4	84	108
64	200 64 W	0360 0000 091	200 64 S	0360 0021 103	3 9/16	4 1/2	91	114
72	200 72 W	0360 0006 048	200 72 S	0360 0021 088	1 7/8	5	48	127
80	200 80 W	0360 1022 102	200 80 S	0360 0021 102	2 1/2	5 1/2	64	140
88	200 88 W	0360 0002 079	200 88 S	0360 0021 116	3 1/8	6	79	152
96	200 96 W	0360 0022 129	200 96 S	0360 0021 129	3 5/8	6 1/2	92	165
104	200 104 W	0360 0001 142	200 104 S	0360 0021 142	4 1/8	7	105	178
128	200 128 W	0360 0002 143	200 128 S	0360 0021 180	5 5/8	8 1/2	143	216
152	200 152 W	0360 0022 218	200 152 S	0360 0021 218	7 1/8	10	181	254
188	200 188 W	0360 0001 238	200 188 S	0360 0021 275	9 3/8	12 1/4	238	311

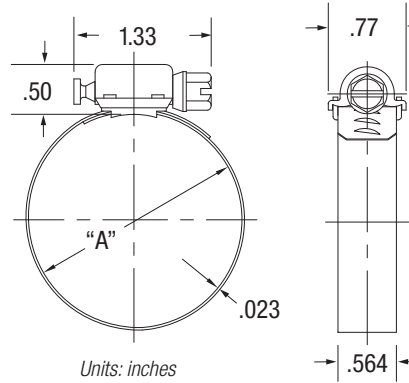
# Breeze Jet Aero-Seal®



A heavy-duty stainless steel worm-drive hose clamp designed for quick assembly in a variety of applications.

Arcial Perforations | Quick-Connect Fastener | All 300-Series Stainless Steel | Diameter Range 9/16" – 12 1/4"

**600 JET AERO-SEAL**  
Pivoting Hex Screw Assembly  
9/16" Band in 300-Series SS  
Two-Piece Housing



SAE	600 JET AERO-SEAL		inches (A)		mm	
	Brand PN	Global PN	min	max	min	max
10	600 10 H	0361 0600 021	9/16	1 1/16	14	27
12	600 12 H	0361 0600 025	11/16	1 1/4	17	32
16	600 16 H	0361 0600 030	13/16	1 1/2	21	38
20	600 20 H	0361 0600 033	13/16	1 3/4	21	44
24	600 24 H	0361 0000 051	1 1/16	2	27	51
28	600 28 H	0361 0600 045	1 5/16	2 1/4	33	57
32	600 32 H B	0361 0600 052	1 9/16	2 1/2	40	64
36	600 36 H	0361 0600 058	1 13/16	2 3/4	46	70
40	600 40 H	0361 0600 064	2 1/16	3	52	76
44	600 44 H	0361 0600 071	2 5/16	3 1/4	59	83
48	600 48 H	0361 1600 077	2 9/16	3 1/2	65	89
52	600 52 H	0361 0002 071	2 13/16	3 3/4	71	95
56	600 56 H	0361 0001 078	3 1/6	4	78	102
60	600 60 H	0361 0001 084	3 5/16	4 1/4	84	108
64	600 64 H	0361 0001 091	3 9/16	4 1/2	91	114
72	600 72 H B	0361 0600 088	1 7/8	5	48	127
80	600 80 H	0361 0001 064	2 1/2	5 1/2	64	140
88	600 88 H	0361 0600 116	3 1/8	6	79	152
96	600 96 H B	0361 0600 129	3 5/8	6 1/2	92	165
104	600 104 H B	0361 0600 143	4 1/8	7	105	178
128	600 128 H	0361 0600 180	5 5/8	8 1/2	143	216
152	600 152 H	0361 0600 218	7 1/8	10	181	254
188	600 188 H	0361 0600 275	9 3/8	12 1/4	238	311

Unique Quick-Connect design allows for tightening the band to desired position by sliding under the screw prior to engagement



# Breeze Aerospace and 'Mil' Spec



Military and aerospace clamps that meet federal supply class 4730.

All Stainless Steel | Meets Federal Supply Class 4730 | Diameter Range 7/16" – 10 5/16"

## AN737TW - AIRCRAFT

410 Stainless Steel Thumb Wing Screw  
9/16" Band in 300-Series SS  
Two-Piece Housing

## NAS1924

5/16" 300-Series SS Hex Screw  
9/16" Band in 300-Series SS  
Two-Piece Housing

## MS35842 - MILITARY ORDNANCE

5/16" 410 Stainless Steel Hex Screw  
9/16" Band in 300-Series SS  
SAE Standard J1508 Type F

## NAS1922 - LIGHTWEIGHT AIRCRAFT

1/4" 300-Series SS Screw  
Optional Lock Wire Hole  
Three-Piece Design



AN737TW AIRCRAFT		inches (A)		mm	
Brand PN	Global PN	min	max	min	max
AN737TW-22 B	0360 0300 014	7/16	11/16	11	17
AN737TW-24 B	0360 0300 016	1/2	3/4	13	19
AN737TW-26 B	0360 0300 017	9/16	13/16	14	21
AN737TW-30 B	0360 0300 021	11/16	15/16	17	24
AN737TW26-30 B	0360 0302 019	9/16	15/16	14	24
AN737TW-34 B	0360 0300 024	13/16	1 1/16	21	27
AN737TW-38 B	0360 0300 027	15/16	1 3/16	24	30
AN737TW34-38 B	0360 0300 025	13/16	1 3/16	21	30
AN737TW-44 B	0360 0300 030	61/64	1 3/8	24	35
AN737TW-46 B	0360 0300 031	1	1 7/16	25	37
AN737TW38-46 B	0360 0302 030	15/16	1 7/16	24	37
AN737TW-48 B	0360 0300 033	1 5/64	1 1/2	27	38
AN737TW44-48 B	0360 0302 031	61/64	1 1/2	24	38
AN737TW-56 B	0360 0300 039	1 21/64	1 3/4	34	44
AN737TW-58 B	0360 0300 040	1 3/8	1 13/16	35	46
AN737TW-66 B	0360 0300 047	1 5/8	2 1/16	41	52
AN737TW56-66 B	0360 0302 043	1 21/64	2 1/16	34	52
AN737TW-74 B	0360 0300 053	1 7/8	2 5/16	48	59
AN737TW66-74 B	0360 0302 050	1 5/8	2 5/16	41	59
AN737TW-82 B	0360 0300 060	2 1/8	2 9/16	54	65
AN737TW-91 B	0360 0300 067	2 13/32	2 27/32	61	72
AN737TW74-91 B	0360 0302 060	1 7/8	2 27/32	48	72
AN737TW-98 B	0360 0300 072	2 5/8	3 1/16	67	78
AN737TW-107 B	0360 0300 079	2 29/32	3 11/32	74	85
AN737TW-114 B	0360 0300 085	3 1/8	3 9/16	79	90
AN737TW98-114 B	0360 0302 079	2 5/8	3 9/16	67	90

MS35842 MILITARY ORDNANCE		inches (A)		mm	
Brand PN	Global PN	min	max	min	max
MS35842-10 B	0360 1400 015	7/16	25/32	11	20
MS35842-11 B	0360 1400 025	11/16	1 1/4	17	32
MS35842-12 B	0360 1400 039	1 1/16	2	27	51
MS35842-13 B	0360 1400 058	1 13/16	2 3/4	46	70
MS35842-14 B	0360 1400 077	2 9/16	3 1/2	65	89
MS35842-15 B	0360 1400 096	3 5/16	4 1/4	84	108
MS35842-16 B	0360 1400 141	4 1/8	7	105	178

NAS1922 LIGHTWEIGHT AIRCRAFT		inches (A)		mm	
Brand PN	Global PN	min	max	min	max
NAS1922-0050-3	0360 0230 013	0.43	0.63	11	16
NAS1922-0075-3	0360 0230 018	0.55	0.87	14	22
NAS1922-0100-3	0360 0230 023	0.71	1.10	18	28
NAS1922-0125-3	0360 0230 030	0.94	1.42	24	36
NAS1922-0150-3	0360 0230 035	0.98	1.77	25	45
NAS1922-0175-3	0360 0230 042	1.26	2.05	32	52
NAS1922-0200-3	0360 0230 050	1.57	2.36	40	60
NAS1922-0225-3	0360 0230 057	1.85	2.64	47	67
NAS1922-0275-3	0360 0230 072	2.44	3.23	62	82
NAS1922-0350-3	0360 0230 087	3.03	3.82	77	97
NAS1922-0400-3	0360 0230 102	3.62	4.41	92	112
NAS1922-0450-3	0360 0230 117	4.21	5.00	107	127
NAS1922-0525-3	0360 0230 132	4.8	5.59	122	142
NAS1922-0575-3	0360 0230 147	5.39	6.18	137	157
NAS1922-0625-3	0360 0230 162	5.98	6.77	152	172
NAS1922-0700-3	0360 0230 177	6.57	7.36	167	187
NAS1922-0750-3	0360 0230 192	7.17	7.95	182	202
NAS1922-0825-3	0360 0230 207	7.76	8.54	197	217
NAS1922-0875-3	0360 0230 222	8.35	9.13	212	232
NAS1922-0925-3	0360 0230 237	8.94	9.72	227	247
NAS1922-1000-3	0360 0230 252	9.53	10.31	242	262

Note: NAS1922 also available with round slotted screw (shown above).

NAS1924 AIRCRAFT		inches (A)		mm	
Brand PN	Global PN	min	max	min	max
NAS1924-46	0360 0240 030	1	1 3/8	25	35
NAS1924-48	0360 0240 032	1 5/64	29/64	27	12
NAS1924-56	0360 0240 038	1 21/64	1 45/64	34	43
NAS1924-58	0360 0240 040	1 3/8	1 3/4	35	44
NAS1924-66	0360 0240 046	1 5/8	2	41	51
NAS1924-74	0360 0240 052	1 7/8	2 1/4	48	57
NAS1924-82	0360 0240 060	2 1/8	2 1/2	54	64
NAS1924-91	0360 0240 066	2 13/32	2 25/32	61	71
NAS1924-98	0360 0240 071	2 5/8	3	67	76
NAS1924-107	0360 0240 079	2 29/32	3 9/32	74	83
NAS1924-114	0360 0240 084	3 1/8	3 1/2	79	89

# Breeze Hi-Torque



The Hi-Torque is the world's strongest worm-gear clamp and features all-stainless-steel construction.

5/8" Band Width | Quadra-Lock Construction | Inner Liner Available | SAE Standard J1508 Type HD | Diameter Range 1" – 9 1/8"

### HTM / HP HI-TORQUE

5/16" 410 Stainless Steel Hex Screw  
5/8" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

### HTM L HI-TORQUE W/ LINER

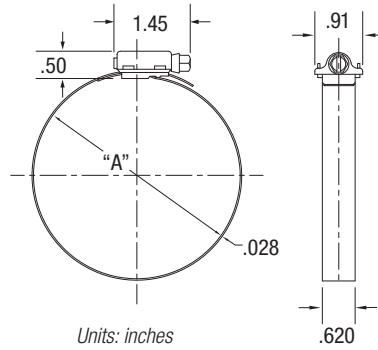
5/16" 410 Stainless Steel Hex Screw  
5/8" Band in 300-Series SS with Liner  
Two-Piece Housing in 300-Series SS

### HP SP HI-TORQUE

5/16" 300-Series SS Hex Screw  
5/8" Band in 300-Series SS  
Two-Piece Housing in 300-Series SS

### HTS / HPS HI-TORQUE

5/16" 316 Stainless Steel Hex Screw  
5/8" Band in 316 Stainless Steel  
Two-Piece Housing in 316 Stainless Steel



SAE	HTM HI-TORQUE		HTM L HI-TORQUE W/LINER		HTS HI-TORQUE		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
-	HTM 175	0156 0015 035	HTM 175 L	0156 0021 035	HTS 175	0156 0019 035	1	1 3/4	25	44
212	HTM 200	0156 0015 043	HTM 200 L	0156 0021 043	HTS 200	0156 0019 043	1 1/4	2 1/8	32	54
262	HTM 250	0156 0015 056	HTM 250 L	0156 0021 056	HTS 250	0156 0019 056	1 3/4	2 5/8	45	67
312	HTM 300	0156 0015 068	HTM 300 L	0156 0021 068	HTS 300	0156 0019 068	2 1/4	3 1/8	57	79
362	HTM 350	0156 0015 081	HTM 350 L	0156 0021 081	HTS 350	0156 0019 081	2 3/4	3 5/8	70	92
412	HTM 400	0156 0015 094	HTM 400 L	0156 0021 094	HTS 400	0156 0019 094	3 1/4	4 1/8	83	105
462	HTM 450	0156 0015 106	HTM 450 L	0156 0021 106	HTS 450	0156 0019 106	3 3/4	4 5/8	95	117
512	HTM 500	0156 0015 119	HTM 500 L	0156 0021 119	HTS 500	0156 0019 119	4 1/4	5 1/8	108	130
562	HTM 550	0156 0015 132	HTM 550 L	0156 0021 132	HTS 550	0156 0019 132	4 3/4	5 5/8	121	143
612	HTM 600	0156 0015 144	HTM 600 L	0156 0021 144	HTS 600	0156 0019 144	5 1/4	6 1/8	133	156
662	HTM 650	0156 0015 157	HTM 650 L	0156 0021 157	HTS 650	0156 0019 157	5 3/4	6 5/8	146	168
712	HTM 700	0156 0015 170	HTM 700 L	0156 0021 170	HTS 700	0156 0019 170	6 1/4	7 1/8	159	181
762	HTM 750	0156 0015 183	HTM 750 L	0156 0021 183	HTS 750	0156 0019 183	6 3/4	7 5/8	172	194
812	HTM 800	0156 0015 195	HTM 800 L	0156 0021 195	HTS 800	0156 0019 195	7 1/4	8 1/8	184	206
862	HTM 850	0156 0015 208	HTM 850 L	0156 0006 197	HTS 850	0156 0019 208	7 3/4	8 5/8	197	219
912	HTM 900	0156 0015 221	HTM 900 L	0156 0021 221	HTS 900	0156 0019 221	8 1/4	9 1/8	210	232

### EXTENDED RANGE HI-TORQUE

SAE	HP HI-TORQUE		HP SP HI-TORQUE		HPS HI-TORQUE		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
-	HP 2	0156 0015 049	HP 2 SP	0156 0036 050	HPS 2	0156 0019 049	1 1/4	2 5/8	32	67
-	HP 3	0156 0015 079	HP 3 SP	0156 0036 080	HPS 3	0156 0019 079	2 1/8	4 1/8	54	105
-	HP 4	0156 0015 129	HP 4 SP	0156 0036 129	HPS 4	0156 0019 129	4	6 1/8	102	156
-	HP 5	0156 0015 194	HP 5 SP B	0156 0036 194	HPS 5	0156 0019 194	6 1/8	9 1/8	156	232

# Breeze Constant-Torque®



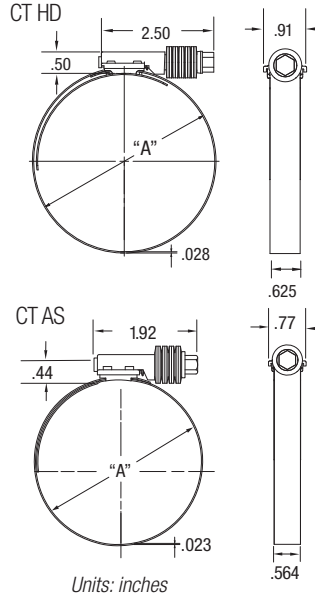
A worm-drive hose clamp that automatically increases or decreases diameter due to changes in temperature.

Extended Inner Liner | Constant-Tension Performance | SAE Standard J1508 Type SLF & SLHD | Diameter Range 9/16" – 9 1/8"

**CONSTANT-TORQUE AS**  
 5/16" 410 Stainless Steel Hex Screw  
 9/16" Band in 300-Series SS  
 Eight Stainless Steel Belleville Washers

**CONSTANT-TORQUE HD**  
 3/8" Plated Hex Screw  
 5/8" Band in 300-Series SS  
 Ten Stainless Steel Belleville Washers

**CONSTANT-TORQUE HD SS**  
 3/8" 410 Stainless Steel Hex Screw  
 5/8" Band in 300-Series SS  
 Ten Stainless Steel Belleville Washers



SAE	CONSTANT-TORQUE AS		inches (A)		mm	
	Brand PN	Global PN	min	max	min	max
10	CT 9410	0362 0302 021	9/16	1 1/16	14	27
12	CT 9412	0362 0302 025	11/16	1 1/4	17	32
16	CT 9416	0362 0302 029	13/16	1 1/2	21	38
20	CT 9420	0362 0302 033	13/16	1 3/4	21	44
24	CT 9424	0362 0302 039	1 1/16	2	27	51
28	CT 9428 B	0362 0302 049	1 5/16	2 1/4	33	57
32	CT 9432 B	0362 0302 052	1 9/16	2 1/2	40	64
36	CT 9436 B	0362 0302 058	1 13/16	2 3/4	46	70
40	CT 9440 B	0362 0302 064	2 1/16	3	52	76
44	CT 9444 B	0362 0302 075	2 5/16	3 1/4	59	83
48	CT 9448 B	0362 0302 077	2 9/16	3 1/2	65	89
52	CT 9452 B	0362 0302 083	2 13/16	3 3/4	71	95

SAE	CONSTANT-TORQUE HD		CONSTANT-TORQUE HD SS		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
28	CT 175 L	0156 0003 035	CT 175 L SS	0156 0005 035	1	1 3/4	25	44
212	CT 200 L	0156 0003 043	CT 200 L SS	0156 0005 043	1 1/4	2 1/8	32	54
262	CT 250 L	0156 0003 056	CT 250 L SS	0156 0005 056	1 3/4	2 5/8	45	67
312	CT 300 L	0156 0003 068	CT 300 L SS	0156 0005 068	2 1/4	3 1/8	57	79
362	CT 350 L	0156 0003 081	CT 350 L SS	0156 0005 081	2 3/4	3 5/8	70	92
412	CT 400 L	0156 0003 094	CT 400 L SS	0156 0005 094	3 1/4	4 1/8	83	105
462	CT 450 L	0156 0003 107	CT 450 L SS	0156 0005 107	3 3/4	4 5/8	95	117
512	CT 500 L	0156 0003 119	CT 500 L SS	0156 0005 119	4 1/4	5 1/8	108	130
562	CT 550 L	0156 0003 132	CT 550 L SS	0156 0005 132	4 3/4	5 5/8	121	143
612	CT 600 L	0156 0003 145	CT 600 L SS	0156 0005 145	5 1/4	6 1/8	133	156
662	CT 650 L	0156 0003 157	CT 650 L SS	0156 0005 157	5 3/4	6 5/8	146	168
712	CT 700 L	0156 0003 170	CT 700 L SS	0156 0005 170	6 1/4	7 1/8	159	181
762	CT 750 L	0156 0003 183	CT 750 L SS	0156 0005 183	6 3/4	7 5/8	172	194
812	CT 800 L	0156 0003 195	CT 800 L SS	0156 0005 195	7 1/4	8 1/8	184	206
862	CT 850 L	0156 0003 208	CT 850 L SS	0156 0005 208	7 3/4	8 5/8	197	219
912	CT 900 L	0156 0003 221	CT 900 L SS	0156 0005 221	8 1/4	9 1/8	210	232

# Breeze Super-Seal



A breakthrough constant tension clamp with dynamic compensation and ultra-secure sealing.

Worm-Drive Closure | Two Screw Options | Recommended Torque 90+/-5 in.-lbs. | Diameter Range 1.42" – 4.64"

## SUPER-SEAL

Plated Hex Screw  
Diameter Range 1.42"–4.64"  
Two-Piece Housing in 304 Stainless Steel

## SUPER-SEAL SS

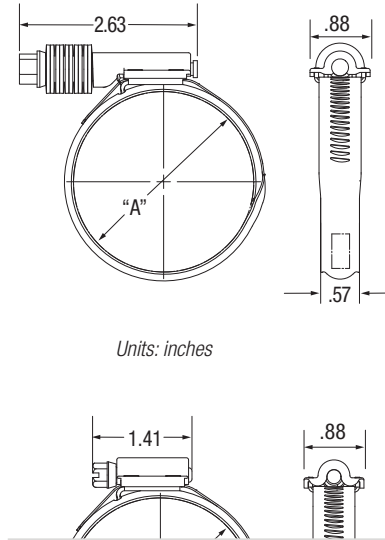
410 Stainless Steel Hex Screw  
Diameter Range 1.42"–4.64"  
Two-Piece Housing in 304 Stainless Steel

## SUPER-SEAL HD

Plated Hex Screw  
Diameter Range 1.42"–4.64"  
Two-Piece Housing in 304 Stainless Steel

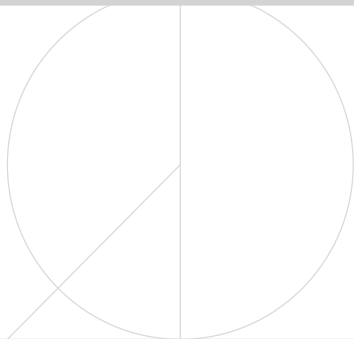
## SUPER-SEAL HD SS

410 Stainless Steel Hex Screw/Ten Belleville Washers  
Diameter Range 1.42"–4.64"  
Two-Piece Housing in 304 Stainless Steel



SUPER-SEAL		SUPER-SEAL SS		inches (A)		mm	
Global PN		Global PN		min	max	min	max
0635 0006 038	0635 0004 038	1.42	1.65	36	42		
0635 0002 046	0635 0000 046	1.57	2.17	40	55		
0635 0002 058	0635 0000 058	2.04	2.63	52	67		
0635 0002 071	0635 0000 071	2.55	3.15	65	80		
0635 0002 087	0635 0000 087	3.03	3.89	77	99		
0635 0002 106	0635 0000 106	3.78	4.64	96	118		

SUPER-SEAL HD		SUPER-SEAL HD SS		inches (A)		mm	
Global PN		Global PN		min	max	min	max
0635 0007 038	0635 0005 038	1.42	1.65	36	42		
0635 0003 046	0635 0001 046	1.57	2.17	40	55		
0635 0003 058	0635 0001 058	2.04	2.63	52	67		
0635 0003 071	0635 0001 071	2.55	3.15	65	80		
0635 0003 087	0635 0001 087	3.03	3.89	77	99		
0635 0003 106	0635 0001 106	3.78	4.64	96	118		



# Breeze T-Bolt

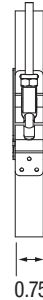
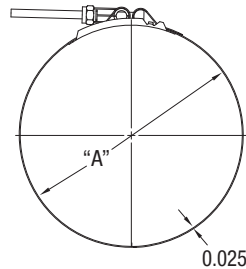
A stainless steel clamp performance-engineered for long-term durability and a wide variety of applications.



3/4" Band Width | Floating Bridge | SAE Standard J1508 Type TB | Diameter Range 1 1/4" – 8 13/16"

**TB**  
1/4"-28 Plated Bolt  
3/4" Band in 300-Series SS  
Floating Bridge

**TB SS**  
1/4"-28 300-Series SS Bolt  
3/4" Band in 300-Series SS  
Floating Bridge



Units: inches



SAE	TB		TB SS		inches (A)		mm	
	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
–	TB 125	0363 0000 034	TB 125 SS	0363 0001 034	1 1/4	1 7/16	32	37
–	TB 138	0363 0000 035	TB 138 SS	0363 0001 035	1 3/8	1 9/16	35	40
–	TB 150	0363 0000 038	TB 150 SS	0363 0001 038	1 1/2	1 5/8	38	41
–	TB 163	0363 0000 044	TB 163 SS	0363 0001 041	1 5/8	1 7/8	41	48
28	TB 175	0363 0017 048	TB 175 SS	0363 0018 048	1 3/4	2	44	51
32	TB 188	0363 0017 052	TB 188 SS	0363 0018 052	1 7/8	2 3/16	48	56
36	TB 200	0363 0017 055	TB 200 SS	0363 0018 055	2	2 5/16	51	59
40	TB 213	0363 0017 058	TB 213 SS	0363 0018 058	2 1/8	2 7/16	54	62
44	TB 225	0363 0017 061	TB 225 SS	0363 0018 061	2 1/4	2 9/16	57	65
48	TB 238	0363 0017 064	TB 238 SS	0363 0018 064	2 3/8	2 11/16	60	68
52	TB 250	0363 0017 068	TB 250 SS	0363 0018 068	2 1/2	2 13/16	64	71
56	TB 263	0363 0017 071	TB 263 SS	0363 0018 071	2 5/8	2 15/16	67	75
60	TB 275	0363 0017 074	TB 275 SS	0363 0018 074	2 3/4	3 1/16	70	78
64	TB 288	0363 0017 077	TB 288 SS	0363 0018 077	2 7/8	3 3/16	73	81
68	TB 300	0363 0017 080	TB 300 SS	0363 0018 080	3	3 5/16	76	84
72	TB 313	0363 0017 084	TB 313 SS	0363 0018 084	3 1/8	3 7/16	79	87
76	TB 325	0363 0017 087	TB 325 SS	0363 0018 087	3 1/4	3 9/16	83	90
80	TB 338	0363 0017 090	TB 338 SS	0363 0018 090	3 3/8	3 11/16	86	94
84	TB 350	0363 0017 093	TB 350 SS	0363 0018 093	3 1/2	3 13/16	89	97
88	TB 363	0363 0017 096	TB 363 SS	0363 0018 096	3 5/8	3 15/16	92	100
92	TB 375	0363 0017 099	TB 375 SS	0363 0018 099	3 3/4	4 1/16	95	103
100	TB 400	0363 0017 106	TB 400 SS	0363 0018 106	4	4 5/16	102	110
108	TB 425	0363 0017 112	TB 425 SS	0363 0018 112	4 1/4	4 9/16	108	116
116	TB 450	0363 0017 118	TB 450 SS	0363 0018 118	4 1/2	4 13/16	114	122
124	TB 475	0363 0017 125	TB 475 SS	0363 0018 125	4 3/4	5 1/16	121	129
132	TB 500	0363 0017 131	TB 500 SS	0363 0018 131	5	5 5/16	127	135
140	TB 525	0363 0017 137	TB 525 SS	0363 0018 137	5 1/4	5 9/16	133	141
148	TB 550	0363 0017 144	TB 550 SS	0363 0018 144	5 1/2	5 13/16	140	148
156	TB 575	0363 0017 150	TB 575 SS	0363 0018 150	5 3/4	6 1/16	146	154
164	TB 600	0363 0017 156	TB 600 SS	0363 0018 156	6	6 5/16	152	160
172	TB 625	0363 0017 163	TB 625 SS	0363 0018 163	6 1/4	6 9/16	159	167
180	TB 650	0363 0017 169	TB 650 SS	0363 0018 169	6 1/2	6 13/16	165	173
188	TB 675	0363 0017 175	TB 675 SS	0363 0018 175	6 3/4	7 1/16	171	179
196	TB 700	0363 0017 182	TB 700 SS	0363 0018 182	7	7 5/16	178	186
204	TB 725	0363 0017 188	TB 725 SS	0363 0018 188	7 1/4	7 9/16	184	192
212	TB 750	0363 0017 195	TB 750 SS	0363 0018 195	7 1/2	7 13/16	191	198
220	TB 775	0363 0017 201	TB 775 SS	0363 0018 201	7 3/4	8 1/16	197	205
228	TB 800	0363 0017 207	TB 800 SS	0363 0018 207	8	8 5/16	203	211
236	TB 825	0363 0017 214	TB 825 SS	0363 0018 214	8 1/4	8 9/16	210	217
244	TB 850	0363 0017 220	TB 850 SS	0363 0018 220	8 1/2	8 13/16	216	224

Note: SAE sizes 64 and smaller have a bent bolt.

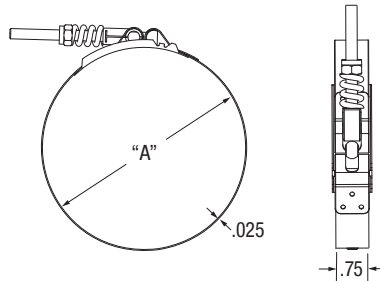
# Breeze Spring-Loaded T-Bolt



A constant-tension clamp with a spring designed for a variety of automotive, industrial, and marine applications.

3/4" Band Width | Floating Bridge | Standard Spring | SAE Standard J1508 Type SLTB | Diameter Range 1 3/4" – 7 13/16"

**B9226 SPRING-LOADED T-BOLT**  
 3/4" Band in 300-Series SS  
 1/4" - 28 Plated Bolt  
 Standard Spring for Constant-Tension



Units: inches



SAE	B9226 SPRING-LOADED T-BOLT		inches (A)		mm	
	Brand PN	Global PN	min	max	min	max
28	B9226-0175 B	0363 0006 048	1 3/4	2	44	51
36	B9226-0200 B	0363 0006 055	2	2 5/16	51	59
38	B9226-0206	0363 0006 056	2 1/16	2 3/8	52	60
40	B9226-0213 B	0363 0006 058	2 1/8	2 7/16	54	62
44	B9226-0225 B	0363 0006 061	2 1/4	2 9/16	57	65
48	B9226-0238 B	0363 0006 064	2 3/8	2 11/16	60	68
52	B9226-0250 B	0363 0006 068	2 1/2	2 13/16	64	71
54	B9226-0256	0363 0006 069	2 9/16	2 7/8	65	73
56	B9226-0263 B	0363 0006 071	2 5/8	2 15/16	67	75
58	B9226-0269 B	0363 0006 072	2 11/16	3	68	76
60	B9226-0275 B	0363 0006 074	2 3/4	3 1/16	70	78
62	B9226-0281 B	0363 0006 075	2 13/16	3 1/8	71	79
64	B9226-0288 B	0363 0006 077	2 7/8	3 3/16	73	81
66	B9226-0294 B	0363 0006 079	2 15/16	3 1/4	75	83
68	B9226-0300 B	0363 0006 080	3	3 5/16	76	84
70	B9226-0306	0363 0006 082	3 1/16	3 3/8	78	86
72	B9226-0313 B	0363 0006 084	3 1/8	3 7/16	79	87
76	B9226-0325 B	0363 0006 087	3 1/4	3 9/16	83	90
78	B9226-0331 B	0363 0006 088	3 5/16	3 5/8	84	92
80	B9226-0338 B	0363 0006 090	3 3/8	3 9/16	86	94
82	B9226-0344 B	0363 1006 091	3 7/16	3 3/4	87	95
86	B9226-0356	0363 0006 094	3 9/16	3 7/8	90	98
88	B9226-0363 B	0363 0006 096	3 5/8	3 15/16	92	100
90	B9226-0369 B	0363 0006 098	3 11/16	4	94	102
92	B9226-0375 B	0363 0006 099	3 3/4	4 1/16	95	103
96	B9226-0388 B	0363 0006 103	3 7/8	4 3/16	98	106
102	B9226-0406	0363 0006 107	4 1/16	4 3/8	103	111
104	B9226-0413 B	0363 0006 109	4 1/8	4 7/16	105	113

SAE	B9226 SPRING-LOADED T-BOLT		inches (A)		mm	
	Brand PN	Global PN	min	max	min	max
106	B9226-0419 B	0363 0006 110	4 3/16	4 1/2	106	114
108	B9226-0425 B	0363 0006 112	4 1/4	4 9/16	108	116
110	B9226-0431 B	0363 0006 113	4 5/16	4 5/8	110	117
114	B9226-0444 B	0363 0006 117	4 7/16	4 3/4	113	121
116	B9226-0450 B	0363 0006 118	4 1/2	4 13/16	114	122
118	B9226-0456	0363 0006 120	4 9/16	4 7/8	116	124
128	B9226-0488 B	0363 0006 128	4 7/8	5 3/16	124	132
130	B9226-0494 B	0363 0006 130	4 15/16	5 1/4	126	133
132	B9226-0500 B	0363 0006 131	5	5 5/16	127	135
134	B9226-0506 B	0363 1006 133	5 1/16	5 3/8	129	137
140	B9226-0525	0363 0006 137	5 1/4	5 9/16	133	141
142	B9226-0531 B	0363 0006 139	5 5/16	5 5/8	135	143
144	B9226-0538 B	0363 0006 141	5 3/8	5 11/16	137	144
146	B9226-0544 B	0363 0006 142	5 7/16	5 3/4	138	146
148	B9226-0550 B	0363 0006 144	5 1/2	5 13/16	140	148
156	B9226-0575 B	0363 0006 150	5 3/4	6 1/16	146	154
166	B9226-0606	0363 0006 158	6 1/16	6 3/8	154	162
172	B9226-0625	0363 0006 163	6 1/4	6 9/16	159	167
174	B9226-0631 B	0363 0006 164	6 5/16	6 5/8	160	168
176	B9226-0638 B	0363 0006 166	6 3/8	6 11/16	162	170
178	B9226-0644	0363 0006 168	6 7/16	6 3/4	164	171
180	B9226-0650 B	0363 0006 169	6 1/2	6 13/16	165	173
184	B9226-0663 B	0363 0006 172	6 5/8	6 15/16	168	176
196	B9226-0700 B	0363 0006 182	7	7 5/16	178	186
204	B9226-0725 B	0363 0006 188	7 1/4	7 9/16	184	192
208	B9226-0738 B	0363 0000 187	7 3/8	7 11/16	187	195
212	B9226-0750 B	0363 0006 195	7 1/2	7 13/16	191	198

Note: SAE sizes 66 and smaller have a bent bolt.



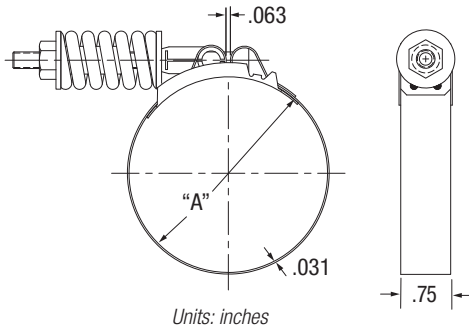
# Breeze HD Spring-Loaded T-Bolt



A constant-tension clamp with a spring designed for a variety of automotive, industrial, and marine applications.

3/4" Band Width | Floating Bridge | Heavy-Duty Spring | SAE Standard J1508 Type SLTB | Diameter Range 2 1/16" – 8 5/8"

**B9224 HD SPRING-LOADED T-BOLT**  
 3/4" Band in 300-Series SS  
 1/4"- 28 Plated Bolt  
 Heavy-Duty Spring for Constant-Tension



Units: inches

SAE	B9224 HD SPRING-LOADED T-BOLT		inches (A)		mm	
	Brand PN	Global PN	min	max	min	max
38	B9224-0206 B	0363 0004 056	2 1/16	2 3/8	52	60
40	B9224-0213 B	0363 0004 058	2 1/8	2 7/16	54	62
42	B9224-0219 B	0363 0004 060	2 3/16	2 1/2	56	64
44	B9224-0225 B	0363 0004 061	2 1/4	2 9/16	57	65
46	B9224-0231 B	0363 0004 063	2 5/16	2 5/8	59	67
48	B9224-0238 B	0363 0004 064	2 3/8	2 11/16	60	68
50	B9224-0244 B	0363 0004 066	2 7/16	2 3/4	62	70
52	B9224-0250 B	0363 0004 068	2 1/2	2 13/16	64	71
54	B9224-0256 B	0363 0004 069	2 9/16	2 7/8	65	73
56	B9224-0263 B	0363 0004 071	2 5/8	2 15/16	67	75
58	B9224-0269 B	0363 0004 072	2 11/16	3	68	76
60	B9224-0275 B	0363 0004 074	2 3/4	3 1/16	70	78
62	B9224-0281 B	0363 0004 075	2 13/16	3 1/8	71	79
68	B9224-0300 B	0363 0004 080	3	3 5/16	76	84
70	B9224-0306	0363 0004 082	3 1/16	3 3/8	78	86
72	B9224-0313	0363 0004 084	3 1/8	3 7/16	79	87
74	B9224-0319 B	0363 0004 085	3 3/16	3 1/2	81	89
76	B9224-0325 B	0363 0003 083	3 1/4	3 9/16	83	90
78	B9224-0331 B	0363 0004 088	3 5/16	3 5/8	84	92
80	B9224-0338	0363 0004 090	3 3/8	3 11/16	86	94
82	B9224-0344	0363 0204 091	3 7/16	3 3/4	87	95
84	B9224-0350 B	0363 0004 093	3 1/2	3 13/16	90	97
86	B9224-0356	0363 0004 094	3 9/16	3 7/8	90	98
88	B9224-0363	0363 0004 096	3 5/8	3 15/16	92	100
90	B9224-0369 B	0363 0004 098	3 11/16	4	94	102

SAE	B9224 HD SPRING-LOADED T-BOLT		inches (A)		mm	
	Brand PN	Global PN	min	max	min	max
92	B9224-0375 B	0363 0004 099	3 3/4	4 1/16	95	103
94	B9224-0381 B	0375 0000 097	3 13/16	4 1/8	97	105
96	B9224-0388	0363 0004 103	3 7/8	4 3/16	98	106
102	B9224-0406	0363 0004 107	4 1/16	4 3/8	103	111
104	B9224-0413	0363 0004 109	4 1/8	4 7/16	105	113
106	B9224-0419 B	0363 0004 110	4 3/16	4 1/2	106	114
108	B9224-0425 B	0363 0004 112	4 1/4	4 9/16	108	116
110	B9224-0431 B	0363 0004 113	4 5/16	4 5/8	110	117
112	B9224-0438	0363 0004 115	4 3/8	4 11/16	111	119
116	B9224-0450 B	0363 0004 118	4 1/2	4 13/16	114	122
118	B9224-0456	0363 0004 120	4 9/16	4 7/8	116	124
128	B9224-0488 B	0363 0004 128	4 7/8	5 3/16	124	132
132	B9224-0500 B	0363 0004 131	5	5 5/16	127	135
140	B9224-0525 B	0363 0004 137	5 1/4	5 9/16	133	141
142	B9224-0531 B	0363 0000 135	5 5/16	5 5/8	135	143
144	B9224-0538 B	0363 0004 141	5 3/8	5 11/16	137	144
158	B9224-0581 B	0363 0000 148	5 13/16	6 1/8	148	156
164	B9224-0600 B	0363 0004 156	6	6 5/16	152	160
172	B9224-0625	0363 0004 163	6 1/4	6 9/16	159	167
174	B9224-0631 B	0363 0000 160	6 5/16	6 5/8	160	168
176	B9224-0638	0363 0004 166	6 3/8	6 11/16	162	170
204	B9224-0725 B	0363 0004 188	7 1/4	7 9/16	184	192
206	B9224-0731 B	0363 0000 186	7 5/16	7 5/8	186	194
212	B9224-0750 B	0363 0004 195	7 1/2	7 13/16	191	198
238	B9224-0831 B	0363 0000 211	8 5/16	8 5/8	211	219

Note: SAE sizes 66 and smaller have a bent bolt.

# Breeze V-Band



V-Band clamps provide fast, secure high-strength coupling for connecting flanged joints.

40-Degree Insert Angle | Welded Band Construction | Nominal Diameter Range 2.11" – 14"

### T-BOLT V-BAND

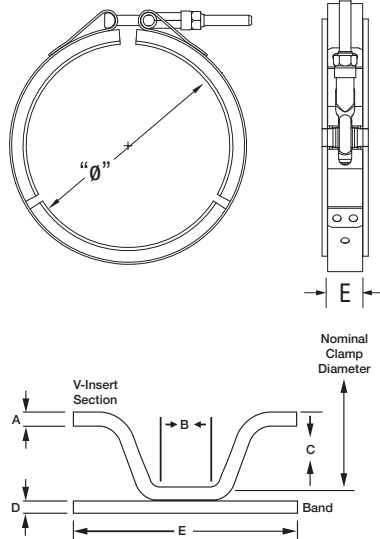
- 400-Series SS Bolt
- 300-Series SS Band
- 300-Series SS Insert

### AERO-SEAL V-BAND

- 400-Series SS Thumb Wing Screw
- 9/16" 300-Series SS Band
- 300-Series SS Insert

### QUICK-LATCH V-BAND

- 400-Series SS Bolt
- 300-Series SS Band
- 300-Series SS Insert

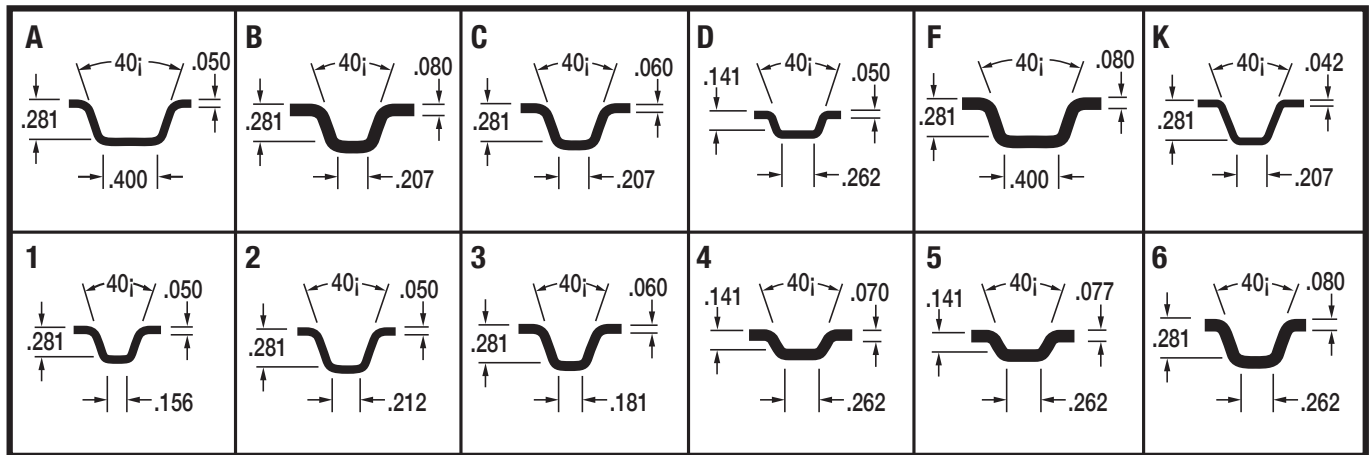


T-BOLT V-BAND		Nominal Diameter (Ø)		Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
VT10288	0365 1600 724	2.88	73.2	0.060	1.52	0.207	5.26	0.281	7.14	0.035	0.89	0.750	19.05
VT10321	0365 0431 082	3.21	81.5	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10350	0365 1680 889	3.50	88.9	0.080	2.03	0.207	5.26	0.281	7.14	0.040	1.02	0.875	22.23
VT10382	0365 0431 097	3.82	97.0	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.875	22.23
VT10388	0365 0431 099	3.88	98.6	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10406	0365 0431 103	4.06	103.1	0.077	1.96	0.239	6.07	0.281	7.14	0.050	1.27	0.875	22.23
VT10413	0365 0431 105	4.13	104.9	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10419	0365 0402 106	4.19	106.4	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10425	0365 3402 108	4.25	108.0	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10450	0365 1601 143	4.50	114.3	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10450-A	0365 0431 114	4.50	114.3	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.875	22.23
VT10461	0365 0431 117	4.61	117.1	0.050	1.27	0.156	3.96	0.218	5.54	0.035	0.89	0.750	19.05
VT10469	0365 0431 119	4.69	119.1	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10475	0365 0431 121	4.75	120.7	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10475-A	0365 0434 121	4.75	120.7	0.077	1.96	0.158	4.01	0.310	7.87	0.040	1.02	0.875	22.23
VT10481	0365 0431 122	4.81	122.2	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.875	22.23
VT10491	0365 1681 247	4.91	124.7	0.040	1.02	0.293	7.44	0.296	7.52	0.050	1.27	0.875	22.23
VT10494	0365 0431 125	4.94	125.5	0.060	1.52	0.181	4.60	0.281	7.14	0.035	0.89	0.750	19.05
VT10510	0365 1681 295	5.10	129.5	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10525	0365 0431 133	5.25	133.4	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10530	0365 1681 346	5.30	134.6	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10565	0365 1681 435	5.65	143.5	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT10581	0365 1681 476	5.81	147.6	0.077	1.96	0.207	5.26	0.281	7.14	0.062	1.57	0.875	22.23
VT10588	0365 1681 494	5.88	149.4	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10588-1	0365 1601 494	5.88	149.4	0.050	1.27	0.400	10.16	0.281	7.14	-	-	-	-
VT10592	0365 0431 150	5.92	150.4	0.090	2.29	0.293	7.44	0.296	7.52	0.050	1.27	0.875	22.23
VT10688	0365 1681 748	6.88	174.8	0.060	1.52	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
VT10808	0365 1682 052	8.08	205.2	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
VT11100B03-4HG B	0373 0000 279	11.00	279.4	0.080	2.03	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
VT11200B03-4HG B	0373 0002 305	12.00	304.8	0.080	2.03	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
VT11400B03-4HG B	0373 0001 356	14.00	355.6	0.080	2.03	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23

AERO-SEAL V-BAND		Nominal Diameter (Ø)		Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
VA10211D03-3A B	0365 0201 054	2.11	53.6	0.050	1.27	0.262	6.65	0.141	3.58	0.023	0.58	0.564	14.33
VA10264D03-3A B	0365 0201 067	2.64	67.1	0.050	1.27	0.262	6.65	0.141	3.58	0.023	0.58	0.564	14.33
VA10317D03-3A B	0365 0201 081	3.17	80.6	0.050	1.27	0.262	6.65	0.141	3.58	0.023	0.58	0.564	14.33
VA10370D03-3A B	0365 0201 094	3.70	94.1	0.050	1.27	0.262	6.65	0.141	3.58	0.023	0.58	0.564	14.33
VA10485D03-3A B	0365 0201 123	4.85	123.2	0.050	1.27	0.262	6.65	0.141	3.58	0.023	0.58	0.564	14.33

QUICK-LATCH V-BAND		Nominal Diameter (Ø)		Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
90-0011	0365 5001 081	3.18	80.8	0.060	1.52	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
90-0014	0365 0100 095	3.73	94.7	0.120	3.00	0.400	10.16	0.281	7.14	0.050	1.30	0.875	22.23
90-0012	0365 5001 121	4.75	120.7	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.750	19.05
90-0013	0365 5001 149	5.88	149.4	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.750	19.05

## Standard V-Band Segment Options



Note: V-Band profiles shown above represent the most commonly used segment configurations.

## Typical V-Band Applications

- Turbocharger Connections
- Diaphragm Pumps
- Diesel Exhaust
- Pool/Spa Filters and Pumps
- Food Processing/Dairy Equipment

# Breeze Secure-Strap



Stainless steel banding ideal for large-diameter hose assemblies, sign securement, and insulation applications.

201 Stainless Steel | Various Coiled Lengths | Optional Plastic Totes | Safe Round-Edge Band

## LIGHT-DUTY ECONOMY

200' Economy Roll  
1/2" Band Width  
.020" Thick Band

## SELF-DISPENSING

100' Self Dispensing Coil  
Multiple Band Widths  
.030" Thick Band

## SELF-DISPENSING WITH TOTE

100' Self Dispensing Coil  
Multiple Band Widths  
.030" Thick Band

## BIG BINDER

100' Self Dispensing Coil  
1 1/4" Band Width  
.044" Thick Band



Band Width	LIGHT-DUTY ECONOMY		SELF-DISPENSING		SELF-DISPENSING WITH TOTE		BIG BINDER	
	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN
1/2"	ST183/914	0560 6582 432	ST204	0560 6582 413	ST204B (blue) ●	0560 6582 421	–	–
5/8"	–	–	ST205	0560 6582 414	ST205G (green) ●	0560 6582 422	–	–
3/4"	–	–	ST206	0560 6582 415	ST206R (red) ●	0560 6582 423	–	–
1 1/4"	–	–	–	–	–	–	ST432	0560 6582 443

## Typical Secure-Strap Applications



# Breeze Secure-Strap Seals, Buckles and Brackets

Heavy-Duty stainless steel hardware for use with Secure-Strap Economy and Self-Dispensing Stainless Steel Coils.

Winged Seals | Buckles Available in Ear or Heavy-Duty Style | All Stainless Steel | Threaded Brackets Available with Bolt and Washer

SECURE-STRAP WINGED SEALS		Band Width Usage	Weight	Description
Brand PN	Global PN			
ST154SS	0560 6582 514	1/2"	1.1 lbs.	Stainless Steel Winged Seals

SECURE-STRAP BUCKLES		Band Width Usage	Weight	Description
Brand PN	Global PN			
ST254	0560 6582 503	1/2"	2.1 lbs.	Ear-Style Buckles
ST255	0560 6582 504	5/8"	2.4 lbs.	Ear-Style Buckles
ST256	0560 6582 505	3/4"	3.7 lbs.	Ear-Style Buckles
ST442	0560 6582 510	1 1/4"	3.2 lbs.	Heavy-Duty Buckles

SECURE-STRAP BRACKETS		Band Width Usage	Weight	Description
Brand PN	Global PN			
ST021	0560 6582 622	–	6 lbs.	Flared Leg Sign Bracket
ST022	0560 6582 632	–	6 lbs.	Flared Leg Sign Bracket w/Bolt & Washer



## Breeze Secure-Strap Spin Tools

The Spin Tool features a spring-loaded gripper for efficient band handling and high-tension capability. For heavy-duty applications on band widths above 3/4" use the Big Binder Spin Tool to pull up to 6,000 lbs. of tension.

Vinyl-Clad Cut-Off Handle | Accommodates 3/4" Band Widths | Chromium Finish | "Lift-and-Lock" Securement

SECURE-STRAP SPIN TOOLS		Band Width Usage	Weight	Description
Brand PN	Global PN			
ST001	0560 6582 904	Up to 3/4"	4.5 lbs.	Secure-Strap Spin Tool
ST402B	0560 6582 905	Above 3/4"	11 lbs.	Big Binder Spin Tool



## Breeze Secure-Strap Tensioner Tools

The highly portable heavy-duty windless tensioner is used with stainless steel strapping for sign hanging, insulation work and general application. The Pistol Grip tool is fast, reliable and easy to use for light applications, and is ideal for insulation.

Rugged Ratchet Action | Lightweight at Only 3 lbs. | Use with 5/8" or 3/4" Band Widths

SECURE-STRAP TENSIONER TOOLS		Band Width Usage	Weight	Description
Brand PN	Global PN			
ST101	0560 6582 907	3/8"-3/4"	3 lbs..	Tensioner Tool HD
ST1902-D	0560 6582 903	3/8"-3/4"	2.5 lbs..	Pistol Grip Tool



# Breeze Secure-Seal



High-Performance Industrial Pre-Formed Permanent Hose Clamp System.

201 Stainless or Galvanized Steel Band | Two Pre-Formed Styles | Heavy-Duty Stainless Steel Buckles | Diameter Range 1 1/4" – 8"

## HBJS 200 J SERIES

201 Stainless Steel  
.030" Thick Band  
Stainless Steel Buckle

## HBJS 300 J-SERIES

Galvanized Steel  
.027" Thick Band  
Stainless Steel Buckle

## HBC S CENTER PUNCH

201 Stainless Steel  
5/8" Wide X .025" Thick Band  
Stainless Steel Buckle

## HBC CENTER PUNCH

Galvanized Steel  
5/8" Wide X .027" Thick Band  
Stainless Steel Buckle



Band Width	HBJS 200 J-SERIES		HBJS 300 J-SERIES		Inside Diameter	
	Brand PN	Global PN	Brand PN	Global PN	in	mm
1/2"	HBJS-204	0560 6582 204	HBJS-304	0560 6582 304	1 1/4	32
5/8"	HBJS-205	0560 6582 205	HBJS-305	0560 6582 305	1 1/2	38
5/8"	HBJS-206	0560 6582 206	HBJS-306	0560 6582 306	1 3/4	44
3/4"	HBJS-212	0560 6582 212	HBJS-312	0560 6582 312	3 1/2	89
3/4"	HBJS-213	0560 6582 213	HBJS-313	0560 6582 313	4	102
3/4"	HBJS-214	0560 6582 214	HBJS-314	0560 6582 314	4 1/2	114
3/4"	HBJS-215	0560 6582 215	–	–	5	127
3/4"	HBJS-216	0560 6582 216	–	–	6	152
3/4"	HBJS-218	0560 6582 218	–	–	7	178
3/4"	HBJS-219	0560 6582 219	–	–	8	203

Band Width	HBC S CENTER PUNCH		HBC CENTER PUNCH		Inside Diameter	
	Brand PN	Global PN	Brand PN	Global PN	in	mm
5/8"	HBC5S	0560 6582 005	HBC5	0560 6582 105	1 1/4	32
5/8"	HBC6S	0560 6582 006	HBC6	0560 6582 106	1 1/2	38
5/8"	HBC8S	0560 6582 008	HBC8	0560 6582 108	2	51
5/8"	HBC10S	0560 6582 010	HBC10	0560 6582 110	2 1/2	64
5/8"	HBC11S	0560 6582 011	–	–	2 3/4	70
5/8"	HBC12S	0560 6582 012	HBC12	0560 6582 112	3	76
5/8"	HBC14S	0560 6582 014	HBC14	0560 6582 114	3 1/2	89
5/8"	HBC16S	0560 6582 016	HBC16	0560 6582 116	4	102
5/8"	HBC18S	0560 6582 018	–	–	4 1/2	114
5/8"	HBC20S	0560 6582 020	HBC20	0560 6582 120	5	127
5/8"	HBC24S	0560 6582 024	–	–	6	152
5/8"	HBC28S	0560 6582 028	–	–	7	178
5/8"	HBC32S	0560 6582 032	–	–	8	203

## Breeze Secure-Seal PowerGrip Tool

The new battery powered PowerGrip tool tensions, locks, and cuts all J-Series brand straps, eliminating the need for multiple tools.

**Unlimited Take-up – No Re-Feeding** | **Ergonomic Grip with Single Button Control** | **18-volt Lithium-ion Battery** | **Use with 5/8" or 3/4" Band Widths**

SECURE-SEAL POWERGRIP TOOL		Description
Brand PN	Global PN	
800500	0560 6582 910	Secure-Seal PowerGrip Tool Kit: Tool   Charger   Battery
800505	0560 6582 911	Secure-Seal PowerGrip Tool System: Tool   Battery   Charger   Bench Mount Fixture & Foot pedal
800497	0560 6582 912	Secure-Seal PowerGrip Tool Bench Mount Fixture
800521	0560 6582 913	Secure-Seal PowerGrip Tool Power Pack: 18-Volt Lithium-ion Battery and Charger
800293	0560 6582 914	Secure-Seal PowerGrip 18-Volt Lithium-ion Battery
800294	0560 6582 915	Secure-Seal PowerGrip 18-Volt Lithium-ion Battery Charger



## Breeze Secure-Seal Center Punch Tool

The Secure-Seal Center Punch Tool is designed for efficient application of center punch style clamps.

**Rugged Ratchet Action** | **Lightweight at Only 3 lbs.** | **Use with 5/8" or 3/4" Band Widths**

SECURE-SEAL CENTER PUNCH TOOL		Description
Brand PN	Global PN	
HBC300	0560 6582 901	Secure-Seal Center Punch Tool



## Breeze Secure-Strap Spin Tool w/J-Series Adaptor

The Spin Tool features a spring-loaded gripper for efficient band handling and high tension capability. (Use Adaptor with J-Series clamps.)

**Vinyl-Clad Cut-Off Handle** | **Lightweight at Only 4 1/2 lbs.** | **Accommodates 3/4" Band Widths** | **Chromium Finish** | **"Lift-and-Lock" Securement**

SECURE-STRAP SPIN TOOL		Description
Brand PN	Global PN	
ST001	0560 6582 904	Secure-Strap Spin Tool
HBJ001	0560 6582 906	Secure-Strap J-Series Adaptor



# Merchandising Display Racks

These durable display racks complement and accommodate Breeze brand clamps as versatile counter top or hanging displays. Available with a variety of product assortment options to meet your needs.

## 6000 EMPTY RACK and Assortments

Full Diameter Coverage | Less Shelf Space | Mounting Versatility | Sturdy Construction | 22"W x 23"H x 8"D

6000 EMPTY RACK HD PN 1047 0000 138	
Description	QTY
6000 EMPTY RACK HD	1

6000 EMPTY RACK BZ PN 1047 0000 139	
Description	QTY
6000 EMPTY RACK BZ	1

62420 ASSORTMENT WL PN 0361 0016 000	
Description	QTY
6000 EMPTY RACK	1
3704 CC Mini	60
3706 CC Mini	60
62006H CC Power-Seal	30
62008H CC Power-Seal	30
62010H CC Power-Seal	70
62012H CC Power-Seal	70
62016H CC Power-Seal	40
62020H CC Power-Seal	20
62024H CC Power-Seal	10
62028H CC Power-Seal	10
62032H CC Power-Seal	10
62036H CC Power-Seal	10

62440 ASSORTMENT PN 0361 0008 000	
Description	QTY
6000 EMPTY RACK	1
3504 Mini	60
3506 Mini	20
4000 Make-A-Clamp	5
62006H Power-Seal	20
62008H Power-Seal	20
62010H Power-Seal	60
62012H Power-Seal	60
62016H Power-Seal	50
62020H Power-Seal	50
62024H Power-Seal	50
62028H Power-Seal	10
62032H Power-Seal	10
62036H Power-Seal	10
HP 2 B Hi-Torque	5
HP 3 B Hi-Torque	5
HP 4 B Hi-Torque	5



6130 ASSORTMENT HD PN 0361 0005 000		Applications	QTY
6000 EMPTY RACK			1
CT 9410 Constant-Torque AS	Heater Hose 1/2-5/8		10
CT 9412 Constant-Torque AS	Heater Hose 3/4		10
CT 9416 Constant-Torque AS	Coolant 7/8-1		10
CT 9420 Constant-Torque AS	Coolant 1 1/8-1 1/4		10
CT 9424 Constant-Torque AS	Coolant 1 3/8-1 1/2		10
CT 250 LSS Constant-Torque HD	Coolant 1 3/4-2 1/8		10
CT 300 LSS Constant-Torque HD	Coolant 2 1/4-2 5/8		10
CT 350 LSS Constant-Torque HD	Coolant 2 3/4-3		10
HP 3 Hi-Torque	Air Intake 2 1/4-3 1/2		10
HP 4 Hi-Torque	Air Intake 4-5 1/2		10
HP 5 Hi-Torque	Air Intake 6-8		10
B9226-0406 Spring-Loaded T-Bolt	4" Charge-Air Cooling		10
B9224-0406 HD Spring-Loaded T-Bolt	Air-to-Air Aftercooling		10



## So Much More than Just a Box!

Breeze brand merchandise carries a powerful marketing message in its packaging. Professional product photography is incorporated into a dynamic design that also has descriptive copy in three languages to communicate the product benefits to the widest possible audience. It is an eye-catching sales tool that works wherever it is displayed. When used in conjunction with our product racks, the handsome merchandising sets our products apart – and helps boost your sales!



## 6100 EMPTY RACK and Assortments

Full Diameter Coverage | Less Shelf Space | Two Assortment Options | Sturdy Construction | 14"W x 18"H x 8"D

### 6100 EMPTY RACK HD PN 1047 0000 140

Description	QTY
6100 EMPTY RACK	1

### 9150 ASSORTMENT HD PN 0361 0004 000

Description	QTY
6100 EMPTY RACK	1
9210H Liner	20
9212H Liner	20
9216H Liner	10
9220H Liner	20
9224H Liner	20
9228H Liner	10
9232H Liner	10
9236H Liner	10
9240H Liner	10
9244H Liner	20

### 6300 ASSORTMENT PN 0361 0006 000

Description	QTY
6100 EMPTY RACK	1
3504 Mini	60
3506 Mini	60
62010H Power-Seal	50
62012H Power-Seal	50
62020H Power-Seal	20
62024H Power-Seal	20
62028H Power-Seal	20
62032H Power-Seal	10
62036H Power-Seal	10



## 6200 EMPTY RACK and Assortments

Full Diameter Coverage | Less Shelf Space | Mounting Versatility | Sturdy Construction | 22"W x 17"H x 6"D

### 6200 EMPTY RACK PN 1047 0000 134

Description	QTY
6200 EMPTY RACK	1

### 6210 ASSORTMENT PN 0361 0001 000

Description	QTY
6200 EMPTY RACK	1
3504 Mini	30
3506 Mini	30
62010H Power-Seal	20
62012H Power-Seal	20
62020H Power-Seal	20
62024H Power-Seal	20
62028H Power-Seal	20
62032H Power-Seal	20
62036H Power-Seal	20

### 6210 ASSORTMENT OR PN 0361 0015 000

Description	QTY
6200 EMPTY RACK	1
3604 CC Mini	30
3606 CC Mini	30
64010H CC Power-Seal	20
64012H CC Power-Seal	20
64020H CC Power-Seal	20
64024H CC Power-Seal	20
64028H CC Power-Seal	20
64032H CC Power-Seal	20
64036H CC Power-Seal	20

### 62300 ASST CC PN 0361 0012 000

Description	QTY
6200 EMPTY RACK	1
3504 CC Mini	60
3506 CC Mini	60
62010H CC Power-Seal	50
62012H CC Power-Seal	50
62020H CC Power-Seal	40
62028H CC Power-Seal	20
62036H CC Power-Seal	20





## Premium Exhaust Clamping Technology for the Automotive Industry

For more than 30 years, the Torca brand has been the industry leader in the design and manufacture of high-quality exhaust connections. Torca, which invented the original reaction block technology, set the industry standard for 360° sealing performance in exhaust clamps for passenger and commercial vehicle exhaust systems. A trusted partner to the OEMs, Torca exhaust clamps are designed, engineered and tested to meet the stringent OEM specifications and will provide consistent sealing for all of your aftermarket exhaust applications.





passenger



commercial

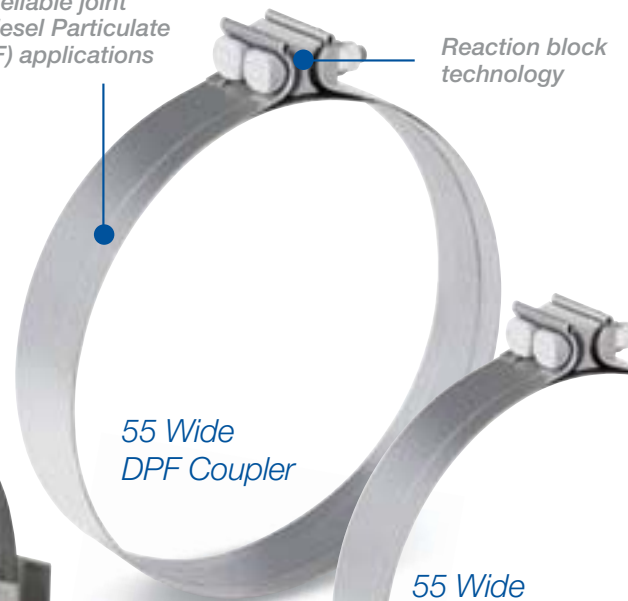
## Exhaust Clamps

Torca Exhaust Clamps are utilized by OEMs, relied upon by the leading repair professionals, and the choice of serious DIY enthusiasts, worldwide. Innovative designs, like our SwivelSeal and AccuLock systems, and time-saving features like EasySeal<sup>®</sup> technology make Torca clamps ideal for a wide-range of applications, from heavy-duty diesel exhaust to performance automotive uses. Our available finishes also allow the user to choose the blend of strength and corrosion-resistance that is right for their needs.



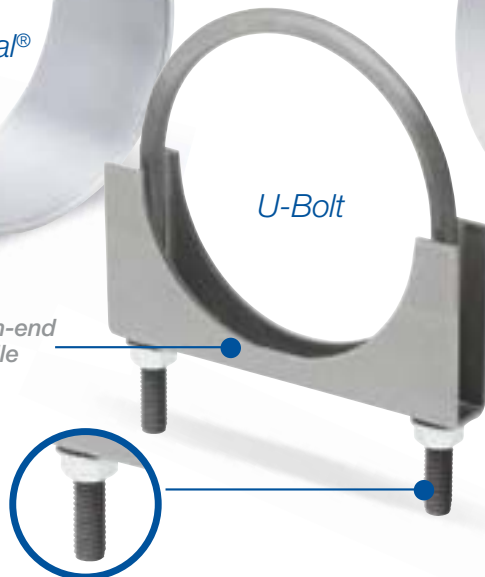


Provides reliable joint seal for Diesel Particulate Filter (DPF) applications



High clamp load capability

Open-end saddle



Available with gasket

55 Wide DPF Coupler w/Gasket

## Product Portfolio Quick Reference



### AccuSeal®

- | 1 1/4" Band Width
- | Diameter Range 1 3/4" – 7"
- | Aluminized, 409 & 430 Stainless Steels
- | Slotted Lap Joint Connection

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### AccuSeal® Coupler

- | 360° Equal Force Distribution
- | Diameter Range 1 13/16" – 2 13/16"
- | 304 & 409 Stainless Steel
- | Butt Joint Style Connection

*Page 49*



### AccuSeal® w/Sleeve

- | 1 7/16" Band Width
- | Diameter Range 2 1/2" – 5"
- | 304 & 409 Stainless Steel Band
- | Slotted Lap Joint Connection

*Page 47*



### Couplers

- | Multiple Band Widths
- | Diameter Ranges 1 3/4" – 13 9/16"
- | 409 & 441 Stainless Steels
- | Butt Joint Style Connection

*Page 50*



### Double AccuSeal®

- | Corrosion-Resistant
- | Diameter Range 4" – 5 1/4"
- | Slotted Lap Joint Connection
- | Aluminized & Stainless Steels

*Page 48*



### Euro Coupler

- | Durable Lightweight Design
- | Diameter Range 1 3/4" – 2 9/16"
- | 304, 409 & 441 Stainless Steels
- | Butt Joint Style Connection

*Page 51*



### DuraSeal®

- | 1 1/4" Band Width
- | Diameter Range 2"– 5"
- | 304 & 409 Stainless Steel
- | Slotted Lap Joint Connection

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### EasySeal®

- | 3" Band Width
- | Diameter Range 2"– 8"
- | 304 Stainless Steel Band
- | Lap & Butt-Style Joint Connections

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### SwivelSeal & Kit

- | 1 1/4" Band Width
- | Diameter Range 2"– 3 1/2"
- | 304 Stainless Steel
- | Angle Adjustable up to 6°
- | Ball & Flare Joint Style Connection

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### U-Bolt

- | 3/8" Bolt
- | Diameter Range 1 1/2"– 6"
- | Carbon or Zinc-Plated Steels
- | Lap Joint Style Connection

Page 57



### TorcTite®

- | 3 7/16" Band Width
- | Diameter Range 2"– 6"
- | Aluminized & 304 Stainless Steel
- | Lap & Butt-Style Joint Connections

Page 54-55



### Application Specific Products

- | AccuLock & UniStrap
- | Custom Designed
- | High-Strength/Low-Weight Construction

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# AccuSeal®



Durable sealing performance for slotted overlap joint automotive exhaust systems.

For Slotted Lap Joint Connection | Superior Clamp Load Capacity | Reaction Block Technology | Diameter Range 1 3/4" – 7"

### AF ACCUSEAL

Aluminized Steel  
Corrosion-Resistant Hardware

### SF ACCUSEAL

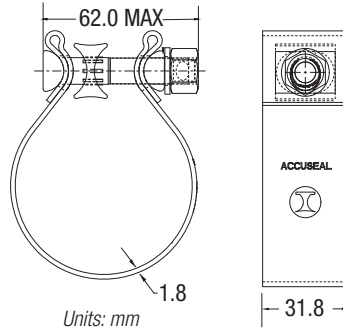
409 Stainless Steel  
Corrosion-Resistant Hardware

### BF ACCUSEAL

430 Stainless Steel  
Corrosion-Resistant Hardware

### PF ACCUSEAL

430 Stainless Steel Polished  
Corrosion-Resistant Hardware

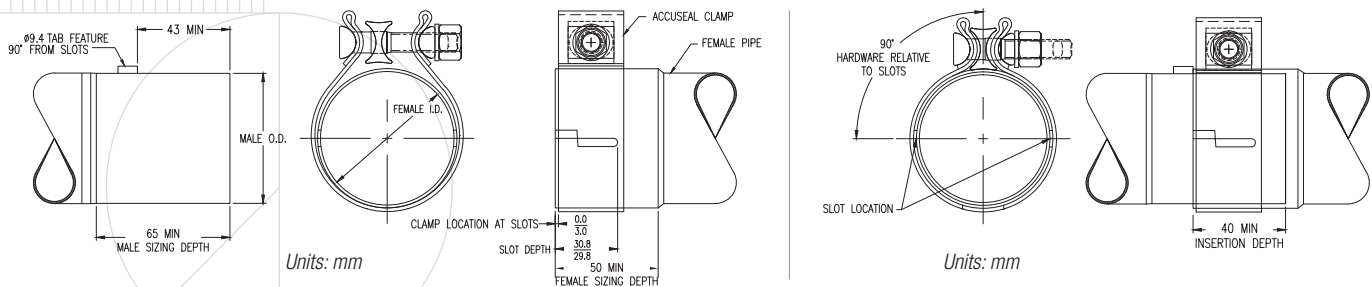


AF ACCUSEAL		SF ACCUSEAL		BF ACCUSEAL		PF ACCUSEAL		Nominal Joint Diameter	
Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	inches	mm
A17AF	0366 0050 500	A17SF	0366 0050 499	A17BF	0366 0080 500	A17PF	0366 0090 500	1 3/4	44.5
A20AF	0366 0060 564	A20SF	0366 0040 564	A20BF	0366 0000 564	A20PF	03660 020 564	2	50.8
A22AF	0366 0020 627	A22SF	0366 0080 627	A22BF	0366 0060 627	A22PF	0366 0070 627	2 1/4	57.2
A25AF	0366 0030 691	A25SF	0366 1200 691	A25BF	0366 0000 691	A25PF	0366 0090 691	2 1/2	63.5
A27AF	0366 0020 754	A27SF	0366 0070 754	A27BF	0366 0050 754	A27PF	0366 1200 754	2 3/4	69.9
A30AF	0366 0070 818	A30SF	0366 0030 818	A30BF	0366 1200 818	A30PF	0366 0040 818	3	76.2
A35AF	0366 0060 949	A35SF	0366 0000 949	A35BF	0366 0020 949	A35PF	0366 0010 949	3 1/2	88.9
A40AF	0366 0071 072	A40SF	0366 1241 072	A40BF	0366 1221 072	A40PF	0366 0091 072	4	101.6
A45AF	0366 0021 199	A45SF	0366 0001 188	A45BF	0366 0011 199	A45PF	0366 0071 199	4 1/2	114.3
A50AF	0366 0061 326	A50SF	0366 1211 326	A50BF	0366 0021 326	A50PF	0366 0041 326	5	127.0
A60AF	0366 0041 580	A60SF	0366 0061 580	A60BF	0366 0021 580	A60PF	0366 0071 580	6	152.4
A70AF	0366 0021 841	—	—	A70BF	0366 0031 841	A70PF	0366 0051 841	7	177.8

Note: AccuSeal® connections require 'sized' and slotted pipe. Torca recommends the Torca Seal-Slot design (see below).

Note: Additional sizes are available to meet specific application requirements.

## Torca Seal-Slot Lap-Style Joint Connection





# AccuSeal<sup>®</sup> with Sleeve

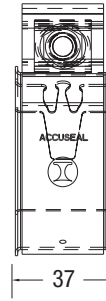
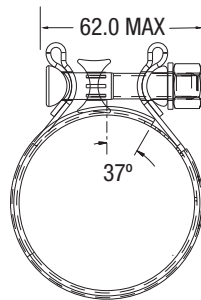


High-quality exhaust clamp with protective sleeve; clamp and sleeve are both stainless steel.

For Slotted Lap Joint Connection | Protective Sleeve Prevents Thin-Walled Pipe From Damage | Reaction Block Technology | Diameter Range 2 1/2" – 5"

**304 SS ACCUSEAL W/SLEEVE**  
304 Stainless Steel  
Corrosion-Resistant Hardware

**409 SS ACCUSEAL W/SLEEVE**  
409 Stainless Steel  
Corrosion-Resistant Hardware



Units: mm

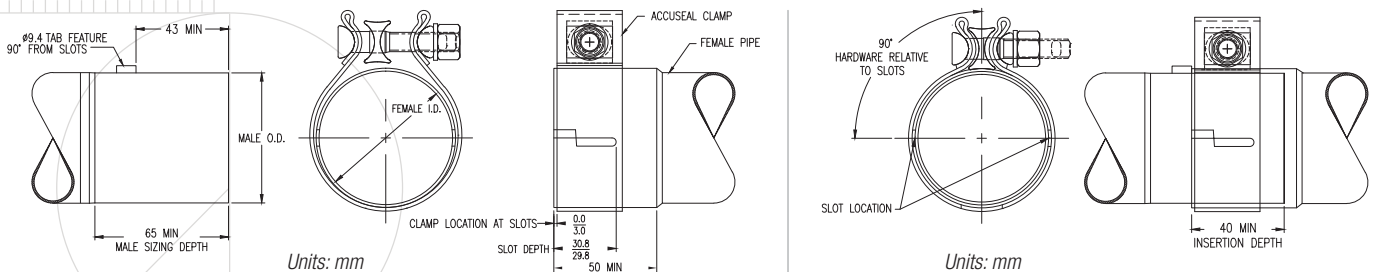


304 SS ACCUSEAL W/SLEEVE		Band Material	Sleeve Material	Nominal Joint Diameter	
Brand PN	Global PN			inches	mm
18-0005	0366 0010 673	304 Stainless Steel	304 Stainless Steel	2 1/2	63.5
18-0006	0366 0000 736	304 Stainless Steel	304 Stainless Steel	2 3/4	69.9
18-0007	0366 0010 800	304 Stainless Steel	304 Stainless Steel	3	76.2
18-0008	0366 0010 927	304 Stainless Steel	304 Stainless Steel	3 1/2	88.9
18-0009	0366 0011 054	304 Stainless Steel	304 Stainless Steel	4	101.6
18-0010	0366 0001 308	304 Stainless Steel	304 Stainless Steel	5	127.0

409 SS ACCUSEAL W/SLEEVE		Band Material	Sleeve Material	Nominal Joint Diameter	
Brand PN	Global PN			inches	mm
18-0011	0366 0000 673	409 Stainless Steel	304 Stainless Steel	2 1/2	63.5
18-0012	0366 0010 736	409 Stainless Steel	304 Stainless Steel	2 3/4	69.9
18-0013	0366 0000 800	409 Stainless Steel	304 Stainless Steel	3	76.2
18-0014	0366 0000 927	409 Stainless Steel	304 Stainless Steel	3 1/2	88.9
18-0015	0366 0001 054	409 Stainless Steel	304 Stainless Steel	4	101.6
18-0016	0366 0011 308	409 Stainless Steel	304 Stainless Steel	5	127.0

Note: AccuSeal<sup>®</sup> connections require 'sized' and slotted pipe. Torca recommends the Torca Seal-Slot design (see below).  
Note: Additional sizes are available to meet specific application requirements.

## Torca Seal-Slot Lap-Style Joint Connection



# Double AccuSeal®

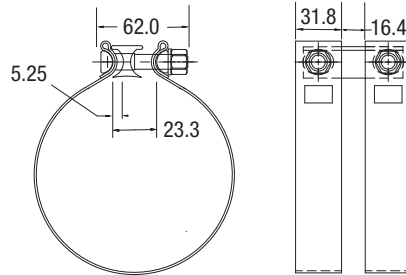


Dual-fastener exhaust clamp makes a secure connection.

For Slotted Lap Joint Connections | Superior Clamp Load Capacity | Aluminized, 409 or 430 Stainless Steels | Diameter Range 4" – 5 1/4"

## DOUBLE ACCUSEAL

- Aluminized, 409 or 430 Stainless Steels
- Corrosion-Resistant Hardware
- Reaction Block Serves as Connection Point



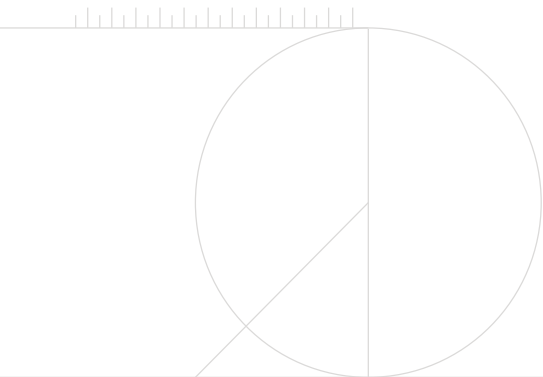
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DOUBLE ACCUSEAL		Band Material		Nominal Joint Diameter	
Brand PN	Global PN	Left Band	Right Band	inches	mm
13-0005	0369 0001 072	Aluminized Steel	Aluminized Steel	4	101.6
10-0319	0369 0001 326	Aluminized Steel	430 Stainless Steel	5	127.0
13-0008	0369 0011 072	Aluminized Steel	430 Stainless Steel	5	127.0
13-0001	0369 0031 326	Aluminized Steel	430 Stainless Steel	5	127.0
13-0007	0369 0051 326	Aluminized Steel	Aluminized Steel	5	127.0
13-0011	0369 0061 326	430 Stainless Steel	430 Stainless Steel	5	127.0
13-0012	0369 0071 326	409 Stainless Steel	430 Stainless Steel	5 1/8, 5 1/4	129.5, 132.0
13-0013	0369 0091 326	430 Stainless Steel	409 Stainless Steel	5 1/4, 5 1/8	132.0, 129.5

Note: AccuSeal® connections require 'sized' and slotted pipe. Torca recommends the Torca Seal-Slot design.

Note: Additional sizes are available to meet specific application requirements.



# AccuSeal® Coupler

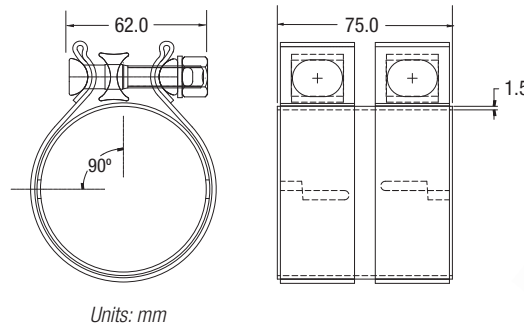


Joins exhaust system components without the need for slotting.

For Butt Joint Style Connections | Full 360° Equal Force Distribution | Slotted Band for Optimal Seal | Diameter Range 1 13/16" – 2 13/16"

**304 SS ACCUSEAL COUPLER**  
304 Stainless Steel Band and Sleeve  
Corrosion-Resistant Hardware

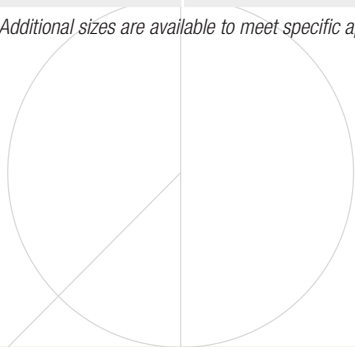
**409 SS ACCUSEAL COUPLER**  
409 Stainless Steel Band and Sleeve  
Corrosion-Resistant Hardware



304 SS ACCUSEAL COUPLER		Sleeve Length		Nominal Joint Diameter (Pipe O.D.)	
Brand PN	Global PN	inches	mm	inches	mm
12-0049	0367 0002 058	3	75	2	52
12-0040	0367 0001 061	2 3/4	70	2 3/16	55
12-0039	0367 0000 067	3	75	2 3/8	60
12-0048	0367 0401 065	3	75	2 5/8	65
12-0047	0367 0002 080	3	75	2 13/16	70

409 SS ACCUSEAL COUPLER		Sleeve Length		Nominal Joint Diameter (Pipe O.D.)	
Brand PN	Global PN	inches	mm	inches	mm
12-0045	0367 0006 051	3 1/8	80	1 13/16	45
12-0073	0367 0001 069	4 11/16	120	2	50
12-0006	0367 0002 056	3 1/8	80	2	50
12-0004	0367 0001 056	3 1/8	80	2	51
12-0003	0367 0017 060	3 1/8	80	2 1/8	54
12-0001	0367 0000 060	3 1/8	80	2 3/16	57
12-0002	0367 0000 066	3 1/8	80	2 3/8	60
12-0005	0367 0005 051	3 1/8	80	2 1/2	64
12-0074	0367 0004 056	4 11/16	120	2 1/2	64

Note: Additional sizes are available to meet specific application requirements.



# Coupler

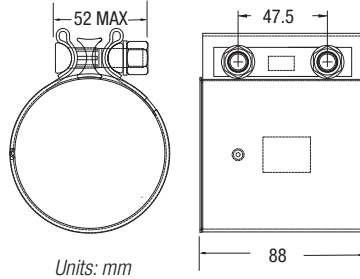


Pre-assembled sealing performance and superior clamp load capacity without pipe overlap.

For Butt Joint Style Connections | 15mm Max Gap Allows 33.5–44mm Insertions per Pipe | Diameter Range 1 3/4 – 3 1/2"

## 409 SS COUPLER

All 409 Stainless Steel  
9/16" Fastener Drive  
3 7/16" Band Width  
Diameter Range 1 3/4" – 3 1/2"



409 SS COUPLER		Nominal Joint Diameter (Pipe O.D.)	
Brand PN	Global PN	inches	mm
96-0125	0367 0000 058	2 1/4	57
96-0115	0367 0001 064	2 1/2	63
96-0159	0367 0000 070	2 3/4	69
96-0131	0367 0002 076	3	76
96-0158	0367 0001 089	3 1/2	90

Note: Additional sizes are available to meet specific application requirements.

# 55 Wide DPF Coupler

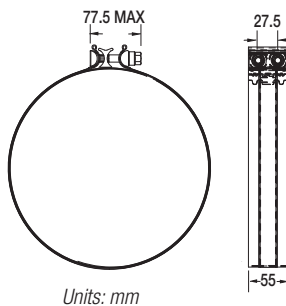


Large Diameter Diesel Particulate Filter (DPF) clamp creates a reliable joint seal between separate sections of DPF.

For Butt Joint Style Connections | Tall Hardware for Socket Clearance | Low Profile for Tight Packaging Space | Diameter Ranges 10 9/16" – 13 9/16"

## 55 WIDE DPF COUPLER

409 and 441 Stainless Steel  
10mm Max Gap Allows 22.5-27.5mm Insertions  
Gasket Available for Lowest Leak Rate



55 WIDE DPF COUPLER		Material	Gasket	Nominal Joint Diameter (Pipe O.D.)	
Brand PN	Global PN			inches	mm
96-0239	0367 0000 269	409 SS	Yes	10 9/16	267.6
–	0367 0000 301	441 SS	No	11 13/16	300.75
96-0261	0367 0000 345	441 SS	No	13 9/16	345.2

# Euro Coupler



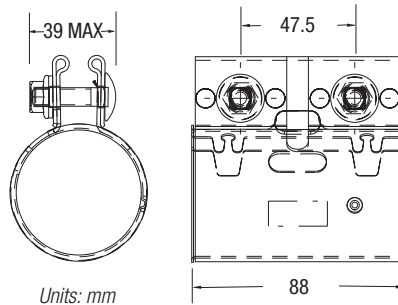
Joins exhaust system components without the need for slotting.

For Butt Joint Style Connections | 10mm Max Gap Allows 39–44mm Insertions per Pipe | Diameter Range 1 3/4" – 2 9/16"

**409 SS EURO COUPLER**  
409 Stainless Steel  
Corrosion-Resistant Hardware

**304 SS EURO COUPLER**  
304 Stainless Steel  
Corrosion-Resistant Hardware

**441 SS EURO COUPLER**  
441 Stainless Steel  
Corrosion-Resistant Hardware

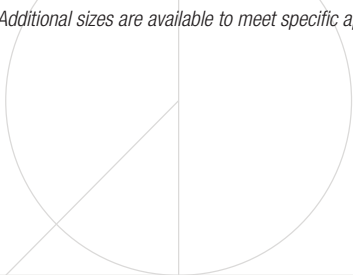


409 SS EURO COUPLER		Nominal Joint Diameter (Pipe O.D.)	
Global PN	inches	mm	
0367 6203 045	1 3/4	45	
0367 6203 050	1 15/16	50	
0367 6203 055	2 3/16	55	
0367 6203 060	2 3/8	60	
0367 0003 065	2 9/16	65	

304 SS EURO COUPLER		Nominal Joint Diameter (Pipe O.D.)	
Global PN	inches	mm	
0367 6202 045	1 3/4	45	
0367 6202 050	1 15/16	50	
0367 6202 055	2 3/16	55	
0367 6202 060	2 3/8	60	
0367 6202 065	2 9/16	65	

441 SS EURO COUPLER		Nominal Joint Diameter (Pipe O.D.)	
Global PN	inches	mm	
0367 6201 045	1 3/4	45	
0367 6201 050	1 15/16	50	
0367 6201 055	2 3/16	55	
0367 6201 060	2 3/8	60	
0367 6201 065	2 9/16	65	

Note: Additional sizes are available to meet specific application requirements.



# DuraSeal®



Clamp for thicker exhaust pipes or large pipe gap applications.

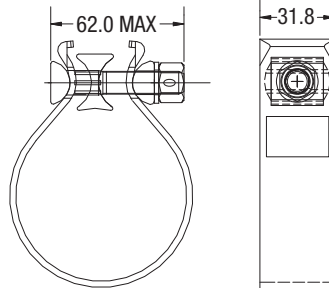
For Lap-Style Joint Connections | Reaction Block Technology | One Torque Point | Pre-Assembled For Easy Installation | Diameter Range 2" – 5"

## HEX SCREW DURASEAL

Hex Screw  
409 SS Band

## OVAL BOLT DURASEAL

Oval Bolt and Flange Nut  
304 SS Band



Units: mm



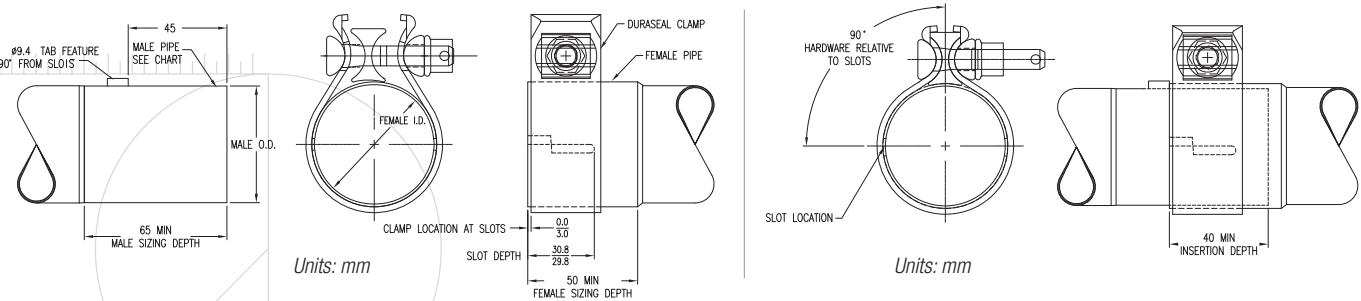
HEX SCREW DURASEAL		Band Material	Nominal Joint Diameter	
Brand PN	Global PN		inches	mm
94-0051	0371 0001 056	409 Stainless Steel	2	50.8
94-0052	0371 0001 062	409 Stainless Steel	2 1/4	57.2
94-0053	0371 0003 068	409 Stainless Steel	2 1/2	63.5
94-0054	0371 0003 075	409 Stainless Steel	2 3/4	69.85
94-0055	0371 0004 081	409 Stainless Steel	3	76.2
94-0056	0371 0000 093	409 Stainless Steel	3 1/2	88.9
94-0057	0371 0001 107	409 Stainless Steel	4	101.6
94-0050	0371 0000 132	409 Stainless Steel	5	127.0

OVAL BOLT DURASEAL		Band Material	Nominal Joint Diameter	
Brand PN	Global PN		inches	mm
94-0060	0371 0004 068	304 Stainless Steel	2 1/2	63.5
94-0061	0371 0004 075	304 Stainless Steel	2 3/4	69.9
94-0062	0371 0005 081	304 Stainless Steel	3	76.2
94-0071	0371 0003 107	304 Stainless Steel	4	101.6
94-0080	0371 0000 126	304 Stainless Steel	5	127.0

Note: DuraSeal® connections require 'sized' and slotted pipe. Torca recommends the Torca Seal-Slot design (see below).

Note: Additional sizes are available to meet specific application requirements.

## Torca Seal-Slot Lap-Style Joint Connection



Units: mm

Units: mm

# SwivelSeal (and SwivelSeal Kit)



Durable exhaust coupling that allows joint serviceability while providing high clamp-load capability.

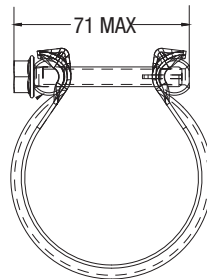
Angle Adjustable up to 6 Degrees | Low-Weight and Low Leakage Rate | Higher Torsion than Conventional Ball-Shaped Flange Connections

### SWIVELSEAL\*

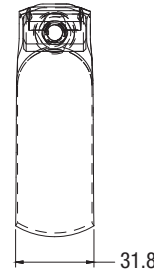
Hex-Head Screw with Integrated Washer  
All 304 Stainless Steel  
Solid Chromium-Free Trunnion Hardware

### SWIVELSEAL KIT

One 8" Flanged Pipe  
One 8" Mating Flare Pipe  
SwivelSeal Exhaust Clamp in 304 Stainless Steel



Units: mm

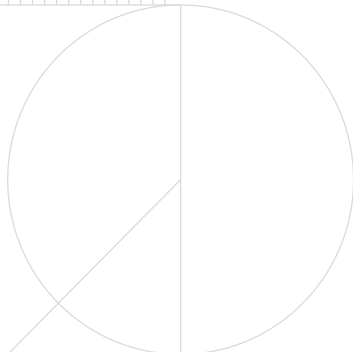


SWIVELSEAL*		Nominal Joint Diameter	
Brand PN	Global PN	inches	mm
93-0098	0595 8084 055	2	55
93-0099	0595 8084 060	2 1/4	60
93-0100	0595 8084 065	2 1/2	65
93-0101	0595 8084 070	2 3/4	70
–	0595 8081 075	3	75
93-0097	0595 8902 090	3 1/2	90

\*Clamp requires special formed ball and flare pipe ends.

Note: Additional sizes are available to meet specific application requirements.

SWIVELSEAL KIT Global PN	Nominal Joint Diameter	
	inches	mm
0595 7000 065	2 1/2	65
0595 7000 070	2 3/4	70
0595 7000 075	3	75



# TorcTite® with Lap-Style Joint



Durable clamping performance for pipes, flex and mufflers.

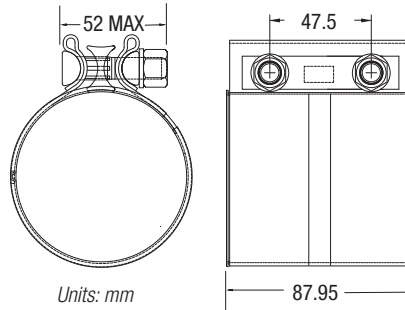
Superior Clamp Load Capacity | Pre-Assembled | Lap-Style Joint | Aluminized and 304 Stainless Steels | Diameter Range 2" – 6"

## TORC TITE ALUMINIZED LAP-STYLE JOINT

Joint Available with Gasket  
Aluminized Steel Pre-Formed Band with Step  
High-Strength Plated Fasteners

## TORC TITE 304 SS LAP-STYLE JOINT

Joint Available with Gasket  
304 Stainless Steel Pre-Formed Band with Step  
304 Stainless Steel Polished Finish Available



TORC TITE ALUMINIZED LAP-STYLE JOINT		Joint Style	Nominal Joint Diameter	
Brand PN	Global PN		inches	mm
L20AA	0368 0107 051	Lap-Style Joint	2	50.8
L22AA	0368 0103 056	Lap-Style Joint	2 1/4	57.2
L25AA	0368 0108 064	Lap-Style Joint	2 1/2	63.5
L27AA	0368 0103 069	Lap-Style Joint	2 3/4	69.9
L30AA	0368 0123 076	Lap-Style Joint	3	76.2
L35AA	0368 0107 089	Lap-Style Joint	3 1/2	88.9
L40AA	0368 0133 102	Lap-Style Joint	4	101.6
L45AA	0368 0115 114	Lap-Style Joint	4 1/2	114.3
L50AA	0368 0132 127	Lap-Style Joint	5	127.0
L60AA	0368 0112 152	Lap-Style Joint	6	152.4

L30AA-G	0368 0119 076	Lap-Style Joint w/Gasket	3	76.2
L35AA-G	0368 0125 089	Lap-Style Joint w/Gasket	3 1/2	88.9
L40AA-G	0368 0120 102	Lap-Style Joint w/Gasket	4	101.6
L50AA-G	0368 0122 127	Lap-Style Joint w/Gasket	5	127.0

TORC TITE 304 SS LAP-STYLE JOINT		Joint Style	Nominal Joint Diameter	
Brand PN	Global PN		inches	mm
L20SA	0368 0110 051	Lap-Style Joint	2	50.8
L22SA	0368 0103 057	Lap-Style Joint	2 1/4	57.2
L25SA	0368 0113 064	Lap-Style Joint	2 1/2	63.5
L27SA	0368 0105 070	Lap-Style Joint	2 3/4	69.9
L30SA	0368 0112 076	Lap-Style Joint	3	76.2
L35SA	0368 0110 089	Lap-Style Joint	3 1/2	88.9
L40SA	0368 0122 102	Lap-Style Joint	4	101.6
L45SA	0368 0112 114	Lap-Style Joint	4 1/2	114.3
L50SA	0368 0113 127	Lap-Style Joint	5	127.0
L60SA	0368 0110 152	Lap-Style Joint	6	152.4

L40BA*	0368 0126 102*	Lap-Style Joint	4	101.6
L50BA*	0368 0110 127*	Lap-Style Joint	5	127.0
L60BA*	0368 0121 152*	Lap-Style Joint	6	152.4

L30SA-G	0368 0118 076	Lap-Style Joint w/Gasket	3	76.2
L35SA-G	0368 0124 089	Lap-Style Joint w/Gasket	3 1/2	88.9
L40SA-G	0368 0119 102	Lap-Style Joint w/Gasket	4	101.6
L50SA-G	0368 0124 127	Lap-Style Joint w/Gasket	5	127.0

Note: Additional sizes are available to meet specific application requirements.  
\*304 Stainless Steel Polished



# TorcTite® with Butt-Style Joint



Durable clamping performance for pipes, flex and mufflers.

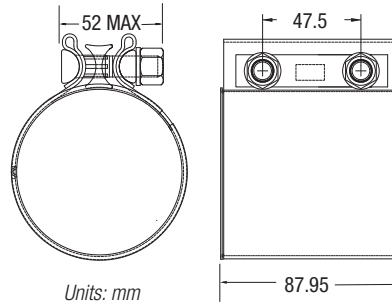
Superior Clamp Load Capacity | Pre-Assembled | Butt-Style Joint | Aluminized and 304 Stainless Steels | Diameter Range 2" – 6"

## TORCTITE ALUMINIZED BUTT-STYLE JOINT

Joint Available with Gasket  
Aluminized Steel Pre-Formed Band with Step  
High-Strength Plated Fasteners

## TORCTITE 304 SS BUTT-STYLE JOINT

Reaction Block Technology  
304 Stainless Steel Pre-Formed Band with Step  
High-Strength Plated Fasteners



TORCTITE ALUMINIZED BUTT-STYLE JOINT		Joint Style	Nominal Joint Diameter	
Brand PN	Global PN		inches	mm
B20AA	0368 0305 051	Butt-Style Joint	2	50.8
B25AA	0368 0305 064	Butt-Style Joint	2 1/4	57.2
B27AA	0368 0300 069	Butt-Style Joint	2 1/2	63.5
B30AA	0368 0305 076	Butt-Style Joint	2 3/4	69.9
B35AA	0368 0304 076	Butt-Style Joint	3	76.2
B35AA	0368 0304 076	Butt-Style Joint	3 1/2	88.9
B40AA	0368 0307 102	Butt-Style Joint	4	101.6
B45AA	0368 0301 114	Butt-Style Joint	4 1/2	114.3
B50AA	0368 0307 127	Butt-Style Joint	5	127.0
B60AA	0368 0301 152	Butt-Style Joint	6	152.4
L35BA-G	0368 0123 089	Butt-Style Joint w/Gasket	3 1/2	88.9
L40BA-G	0368 0116 102	Butt-Style Joint w/Gasket	4	101.6
L50BA-G	0368 0127 127	Butt-Style Joint w/Gasket	5	127.0

TORCTITE 304 SS BUTT-STYLE JOINT		Joint Style	Nominal Joint Diameter	
Brand PN	Global PN		inches	mm
B20SA	0368 0300 051	Butt-Style Joint	2	50.8
B22SA	0368 0300 057	Butt-Style Joint	2 1/4	57.2
B25SA	0368 0302 064	Butt-Style Joint	2 1/2	63.5
B27SA	0368 0302 070	Butt-Style Joint	2 3/4	69.9
B30SA	0368 0301 076	Butt-Style Joint	3	76.2
B35SA	0368 0302 089	Butt-Style Joint	3 1/2	88.9
B40SA	0368 0303 102	Butt-Style Joint	4	101.6
B45SA	0368 0304 114	Butt-Style Joint	4 1/2	114.3
B50SA	0368 0304 127	Butt-Style Joint	5	127.0
B60SA	0368 0304 152	Butt-Style Joint	6	152.4

Note: Additional sizes are available to meet specific application requirements.



## TorcTite® with Gasket

# EasySeal®



Service-specific sealing solution that does not require the use of slotted pipe ends.

For Lap and Butt Style Joint Connections | Unique Sealing Performance | Easy, Fast Accurate Installation | 304 Stainless Steel | Diameter Range 2" – 8"

## EASYSEAL

Pre-Attached Hardware  
High-Strength Grade-8 Fasteners  
304 Stainless Steel Band



Units: mm



EASYSEAL		Nominal Joint Diameter	
Brand PN	Global PN	inches	mm
E20ST	0368 0000 051	2	50.8
E22ST	0368 0000 056	2 1/4	57.2
E25ST	0368 0000 064	2 1/2	63.5
E27ST	0368 0000 069	2 3/4	69.9
E30ST	0368 0000 076	3	76.2
E35ST	0368 0000 089	3 1/2	88.9
E40ST	0368 0000 102	4	101.6
E45ST	0368 0000 114	4 1/2	114.3
E50ST	0368 0000 127	5	127.0
E60ST	0368 0000 152	6	152.4
E70ST	0368 0000 178	7	177.8
E80ST	0368 0000 203	8	203.2

Note: Additional sizes are available to meet specific application requirements.

## Installation Instructions:



Center clamp around the joint.



Insert bolts through the clamp end and force bar and install nuts.



Tighten clamp from either side.  
Torque to 48-60 ft.-lbs. (65-80 Nm).

# U-Bolt

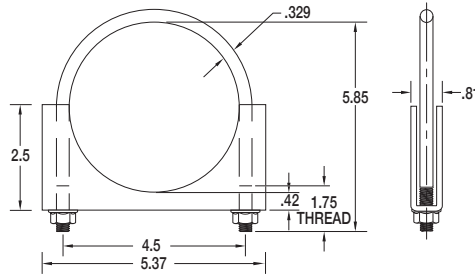


Low-cost alternative for pipe joining applications, suitable for a wide range of non-slotted pipe diameters.

For Lap Style Joint Connections | Open End Saddle | Carbon or Zinc-Plated Steel | Serrated Flange Nut | Diameter Range 1 1/2" – 6"

**U-BOLT ZINC PLATED**  
Double Edge Clamp  
3/8" Bolt

**U-BOLT CARBON STEEL**  
Double Edge Clamp  
3/8" Bolt



Units: inches



U-BOLT ZINC PLATED		U-BOLT CARBON STEEL		Nominal Joint Diameter	
Global PN		Global PN		inches	mm
0152 8003 038		0152 8002 038		1 1/2	38.0
0152 8005 044		0152 8004 044		1 3/4	44.5
0152 8007 048		0152 8006 048		1 7/8	47.6
0152 8009 051		0152 8008 051		2	50.8
0152 8011 057		0152 8010 057		2 1/4	57.15
0152 8013 064		0152 8012 064		2 1/2	63.5
0152 8015 076		0152 8014 076		3	76.2
0152 8017 089		0152 8016 089		3 1/2	88.9
0152 8018 102		0152 8001 102		4	101.6
0152 8020 127		0152 8019 127		5	127.0
0152 8022 152		0152 8021 152		6	152.4

Note: Additional sizes are available to meet specific application requirements.

## Application Specific Products

Torca is a trusted supplier to many of the world's leading manufacturers, and many of our products are included as original equipment on a wide range of commercial and passenger vehicles. To find specific OEM applications, part numbers and availability in the aftermarket, please call 1-855-NORMA2U for more details.

### AccuLock

A lightweight alternative to flat flanges, offering superior flexibility.

- | Positive Axial Retention
- | Low-Leak, After-Treatment Applications
- | 301, 409 and 439 Stainless Steels
- | Rotational and Axial Alignment Flexibility



### Uni-Strap

High-Strength unitary clamp/bracket system.

- | Application-Specific Designs and Sizes
- | Eliminates Welds and Corrosion
- | Aluminized Steel, 409 and 430 Stainless Steel



## Your Partner for Innovative Connections

Founded in Germany in 1949, NORMA has been a world leader in the development and production of engineered joining technology for more than 65 years. By working in close collaboration with customers to fully understand their needs, NORMA creates highly engineered products that have re-defined what is possible. Our products enable cleaner more efficient use of valuable resources within areas such as cooling systems, air suction and induction, auxiliary systems and infrastructure. NORMA's products provide reliable connections, even in difficult installation conditions, with time-saving design innovations and improved durability.





residential



commercial



passenger



infrastructure



industrial



## Worm-Drive Hose Clamps

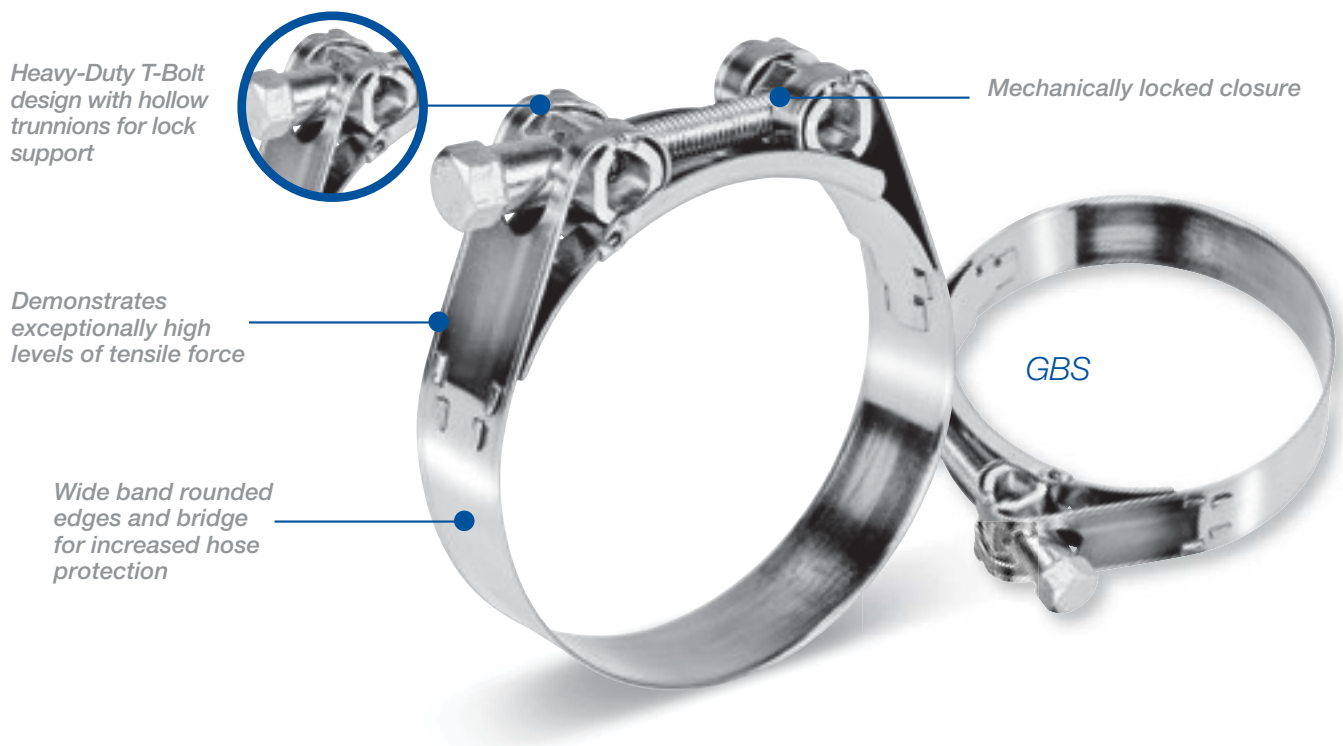
NORMA brings legendary German craftsmanship to hose clamp technology, creating world-class worm-drive clamps for automotive, industrial and marine applications. With their hallmark asymmetrical construction and standard-setting embossed band strength, they are ideal for applications with high mechanical loads. We offer clamps in standard and constant-tension styles, with a wide range of diameters and choices of materials to meet nearly any need.



**NORMACLAMP®**

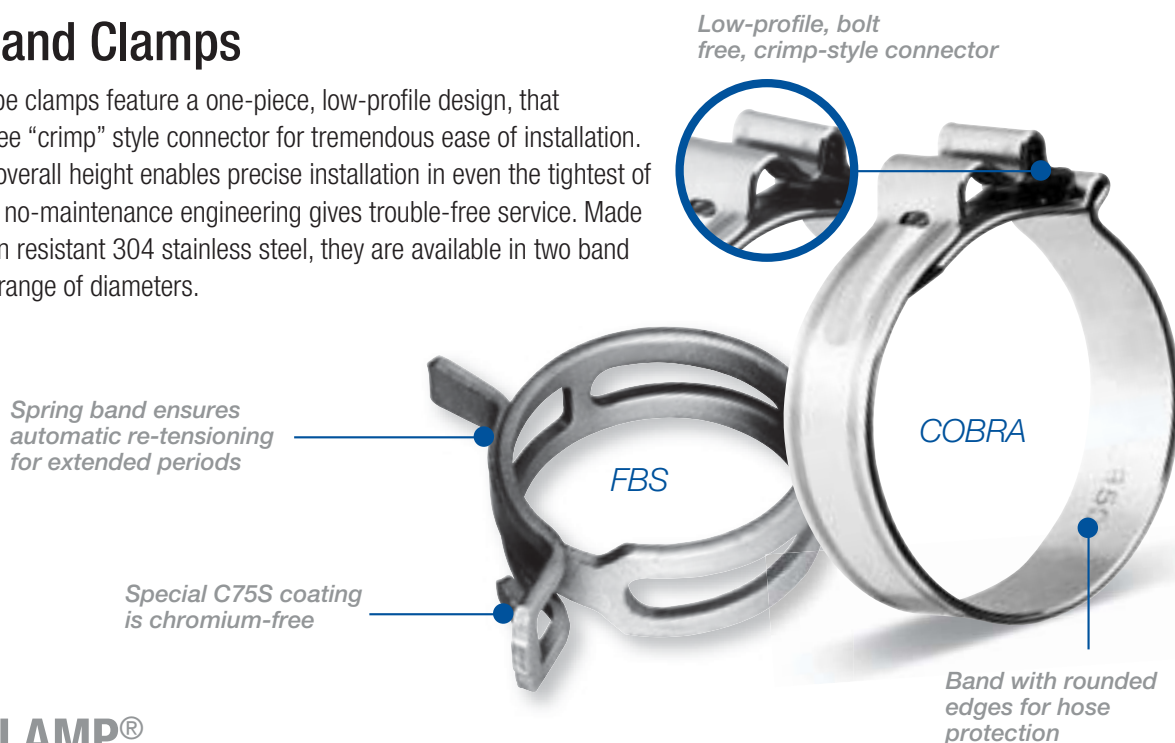
## Barrel-Style Clamps

NORMA barrel-style clamps feature robust T-Bolt closures for heavy-duty applications, such as fastening compressed air hoses with high degrees of hardness or plastic/steel reinforcement. Available in a wide range of band widths and diameters to meet virtually any need, they feature exceptionally high levels of band tensile force. Clamps are available in aluzinc and several hardnesses of stainless steel to allow for the ideal blend of corrosion-resistance and strength.



## Spring-Band Clamps

NORMA pinch-type clamps feature a one-piece, low-profile design, that provides a bolt-free “crimp” style connector for tremendous ease of installation. The clamp’s low overall height enables precise installation in even the tightest of spaces, and their no-maintenance engineering gives trouble-free service. Made of highly corrosion resistant 304 stainless steel, they are available in two band widths and a full range of diameters.



# Pressure-Pipe Couplings

NORMA produces a full range of pipe connecting clamps, designed for both axial restraint and non-restraint applications. Engineered to stand up in the harshest environments, these couplings come with a variety of closure options and anchoring enhancements to allow secure connections without damage to softer pipe materials. Flame-protective housings are available for new and retro-fit installations, as well as a special clamp to repair damaged pipes.

*COMBI-GRIP E*

*Stainless steel housing with EPDM/NBR inner ring*

*Integrated flame-protective housing can withstand up to 850° C*

*GRIP E-FP*

*Anchoring rings with conical teeth*

*Low-weight and made with environmentally friendly materials*

*Patented double-lip sealing system*

*Hollow trunnions with heavy-duty lock bars*

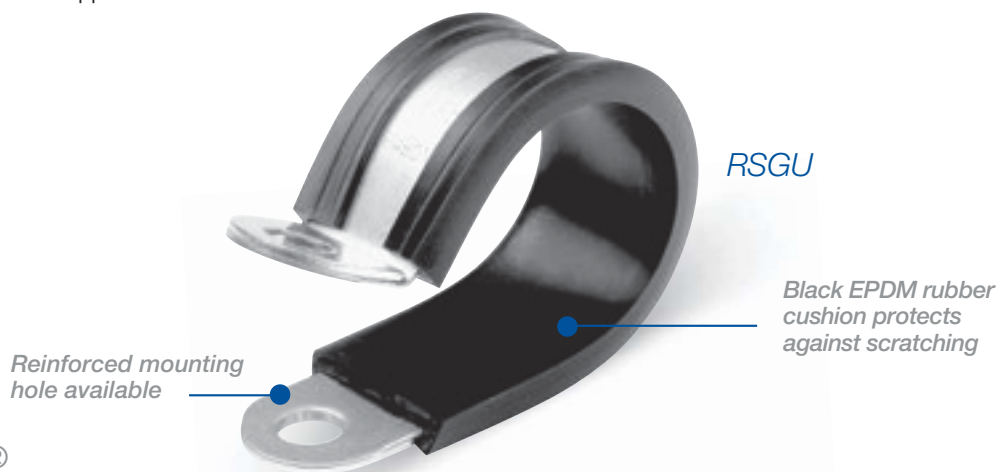
*Optional support sleeve available to reduce deformation of plastic pipes*

*PLAST-GRIP*



## Retaining/Mounting Clamps

NORMAFIX® pipe retaining clips are suitable for securing pipes, cables, cable harnesses, cable protection pipes, hoses and other lines. Available in a range of band widths and diameters, and aluzinc, galvanized and stainless steel construction, NORMA mounting and retaining clips provide secure retention with superior protection of soft hose and pipe materials. They are ideal for industrial, automotive and construction applications.



NORMAFIX®

## Quick Connectors

NORMA quick connectors are the ideal coupling technology for a wide range of applications, particularly the transfer of media in heating and cooling lines and charged air systems. Available with a variety of housing and liner materials, including EPDM and polyamide 6.6, and offered in a host of sizes to meet a full spectrum of uses, NORMA quick connectors feature innovations such as our push and seal technology with secure “click” sound to indicate proper seating. NORMA quick connectors, the proven choice of OEMs, are available for the automotive aftermarket.



NORMAQUICK®

## Product Portfolio Quick Reference



### NORMACLAMP®

#### TORRO®

- | 7.5mm–12mm Band Widths
- | Diameter Range 8mm – 160mm
- | Aluzinc, Galvanized & Other Stainless Steels

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#### FBS HC

- | 12mm Band Width
- | Diameter Range 14.5mm – 63mm
- | C75S with Zinc (no chromium)
- | Pre-Opened w/Plastic Clip

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#### TORRO® WF

- | 9mm & 12mm Band Widths
- | Diameter Range 8mm – 130mm
- | Aluzinc, Galvanized & Other Stainless Steels
- | Constant-Tension Spring Insert

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#### GBS

- | 18mm-30mm Band Widths
- | Diameter Range 17mm – 304mm
- | Aluzinc, Galvanized & Other Stainless Steels
- | Hollow Trunnions

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#### COBRA

- | 7mm & 8mm Band Widths
- | Diameter Range 8mm – 32mm
- | 304 Stainless Steel
- | Bolt-Free Construction

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### NORMAFIX®

#### RS/RSGU

- | 12mm, 15mm & 20mm Band Widths
- | Diameter Range 6mm – 40mm
- | EPDM Rubber Cushion

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#### FBS

- | 12mm Band Width
- | Diameter Range 14.5mm – 83mm
- | C75S with Zinc (no chromium)
- | Automatic Re-Tensioning

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## NORMACONNECT®



### FGR FLEX E

- | Diameter Range 33mm – 1219mm
- | 304 & 316 Stainless Steels
- | EPDM/NBR Inner Ring
- | For Hot or Cold Applications

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### FGR PLAST-GRIP E

- | Diameter Range 39mm – 170mm
- | 304, 316 Stainless Steels
- | EPDM/NBR Inner Ring
- | For Hot or Cold Applications

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### FGR REP E

- | Diameter Range 44mm – 1219mm
- | 316 Stainless Steel
- | EPDM/NBR Inner Ring
- | For Hot or Cold Applications

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### FGR GRIP E-FP

- | Diameter Range 33mm – 422mm
- | 316 Stainless Steel
- | EPDM/NBR Inner Ring
- | For Hot or Cold Marine Applications

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### FGR GRIP E

- | Diameter Range 26mm – 613mm
- | 304 & 316 Stainless Steels
- | EPDM/NBR Inner Ring
- | For Hot or Cold Applications

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### FGR RFP

- | Diameter Range 27mm – 273mm
- | 316 Stainless Steel
- | For Hot or Cold Marine Applications

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### FGR COMBI-GRIP E

- | Diameter Range 39mm – 170mm
- | 316 Stainless Steel
- | EPDM/NBR Inner Ring
- | For Hot or Cold Applications

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## NORMAQUICK®

### Quick Connectors

- | For SAE and VDA Connections
- | 0°, 45° & 90° Profiles
- | Injection Molded Thermoplastics
- | For Hot or Cold Applications

Page 86-87

# TORRO®

A non-perforated worm-drive hose clamp ideally suited to applications with high mechanical loads

7.5mm – 12mm Band Widths | Three-Piece Construction | Diameter Range 8mm – 160mm

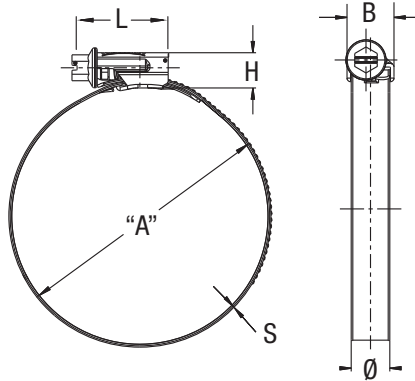


**TORRO (W2)**  
Slotted Hex Screw  
Non-Perforated Band  
Asymmetric Housing

**TORRO (W3)**  
Slotted Hex Screw  
Non-Perforated Band  
Asymmetric Housing

**TORRO (W4)**  
Slotted Hex Screw  
Non-Perforated Band  
Asymmetric Housing

**TORRO (W5)**  
Slotted Hex Screw  
Non-Perforated Band  
Asymmetric Housing



Band Width (Ø)		B	H	L	S	TORRO (W2)	TORRO (W3)	TORRO (W4)	TORRO (W5)	inches		mm (A)	
inches	mm	mm	mm	mm	mm					min	max	min	max
5/16	7.5	11.5	9	17	0.6	0116 6602 010	0116 6603 010	–	–	5/16	1/2	8	12
5/16	7.5	11.5	9	17	0.6	0116 6602 013	0116 6603 013	–	–	3/8	5/8	10	16
5/16	7.5	11.5	9	17	0.6	0116 6602 015	0116 6603 015	–	–	1/2	11/16	12	18
5/16	7.5	11.5	9	17	0.6	0116 6602 017	0116 6603 017	–	–	1/2	7/8	12	22
5/16	7.5	11.5	9	17	0.6	0116 6602 021	0116 6603 021	–	–	5/8	1 1/16	16	27
3/8	9	13	11	21	0.65	0126 6702 010	0126 6703 010	0126 6704 010	–	5/16	1/2	8	12
3/8	9	13	11	21	0.65	0126 6702 013	0126 6703 013	0126 6704 013	0126 6705 013	5/16	5/8	8	16
3/8	9	13	11	24	0.65	0126 6702 017	0126 6703 017	0126 6704 017	0126 6705 017	1/2	7/8	12	22
3/8	9	13	11	24	0.65	0126 6702 021	0126 6703 021	0126 6704 021	0126 6705 021	5/8	1 1/16	16	27
3/8	9	13	11	24	0.65	0126 6702 026	0126 6703 026	0126 6704 026	0126 6705 026	13/16	1 1/4	20	32
3/8	9	13	11	24	0.65	0126 6702 029	0126 6703 029	0126 6704 029	0126 6705 029	15/16	1 3/8	23	35
3/8	9	13	11	26	0.65	0126 6702 032	0126 6703 032	0126 6704 032	0126 6705 032	1	1 9/16	25	40
3/8	9	13	11	26	0.65	0126 6702 037	0126 6703 037	0126 6704 037	0126 6705 037	1 3/16	1 3/4	30	45
3/8	9	13	11	26	0.65	0126 6702 041	0126 6703 041	0126 6704 041	0126 6705 041	1 3/8	2	32	50
3/8	9	13	11	26	0.65	0126 6702 050	0126 6703 050	0126 6704 050	0126 6705 050	1 9/16	2 3/8	40	60
3/8	9	13	11	26	0.65	0126 6702 060	0126 6703 060	0126 6704 060	0126 6705 060	2	2 3/4	50	70
3/8	9	13	11	26	0.65	0126 6702 070	0126 6703 070	0126 6704 070	0126 6705 070	2 3/8	3 1/8	60	80
3/8	9	13	11	26	0.65	0126 6702 080	0126 6703 080	0126 6704 080	0126 6705 080	2 3/4	3 9/16	70	90
3/8	9	13	11	26	0.65	0126 6702 090	0126 6703 090	0126 6704 090	0126 6705 090	3 1/8	3 15/16	80	100
3/8	9	13	11	26	0.65	0126 6702 100	0126 6703 100	0126 6704 100	0126 6705 100	3 9/16	4 5/16	90	110
3/8	9	13	11	26	0.65	0126 6702 110	0126 6703 110	0126 6704 110	0126 6705 110	3 15/16	4 3/4	100	120
3/8	9	13	11	26	0.65	0126 6702 120	0126 6703 120	0126 6704 120	0126 6705 120	4 5/16	5 1/8	110	130
3/8	9	13	11	26	0.65	0126 6702 130	0126 6703 130	0126 6704 130	0126 6705 130	4 3/4	5 1/2	120	140
3/8	9	13	11	26	0.65	0126 6702 140	0126 6703 140	0126 6704 140	0126 6705 140	5 1/8	5 15/16	130	150

Band Width (Ø)		B	H	L	S	TORRO (W2)	TORRO (W3)	TORRO (W4)	TORRO (W5)	inches		mm (A)	
inches	mm	mm	mm	mm	mm					min	max	min	max
1/2	12	14.6	12.5	30	0.8	0136 6702 021	0136 6703 021	0136 6704 021	0136 6705 021	5/8	1 1/16	16	27
1/2	12	14.6	12.5	30	0.8	0136 6702 026	0136 6703 026	0136 6704 026	0136 6705 026	13/16	1 1/4	20	32
1/2	12	14.6	12.5	30	0.8	0136 6702 029	0136 6703 029	0136 6704 029	0136 6705 029	15/16	1 3/8	23	35
1/2	12	14.6	12.5	30	0.8	0136 6702 032	0136 6703 032	0136 6704 032	0136 6705 032	1	1 9/16	25	40
1/2	12	14.6	12.5	30	0.8	0136 6702 037	0136 6703 037	0136 6704 037	0136 6705 037	1 3/16	1 3/4	30	45
1/2	12	14.6	12.5	30	0.8	0136 6702 043	0136 6703 043	0136 6704 043	0136 6705 043	1 3/8	2	32	50
1/2	12	14.6	12.5	30	0.8	0136 6702 050	0136 6703 050	0136 6704 050	0136 6705 050	1 9/16	2 3/8	40	60
1/2	12	14.6	12.5	30	0.8	0136 6702 060	0136 6703 060	0136 6704 060	0136 6705 060	2	2 3/4	50	70
1/2	12	14.6	12.5	30	0.8	0136 6702 070	0136 6703 070	0136 6704 070	0136 6705 070	2 3/8	3 1/8	60	80
1/2	12	14.6	12.5	36	0.8	0136 6702 080	0136 6703 080	0136 6704 080	0136 6705 080	2 3/4	3 9/16	70	90
1/2	12	14.6	12.5	36	0.8	0136 6702 090	0136 6703 090	0136 6704 090	0136 6705 090	3 1/8	3 15/16	80	100
1/2	12	14.6	12.5	36	0.8	0136 6702 100	0136 6703 100	0136 6704 100	0136 6705 100	3 9/16	4 5/16	90	110
1/2	12	14.6	12.5	36	0.8	0136 6702 110	0136 6703 110	0136 6704 110	0136 6705 110	3 15/16	4 3/4	100	120
1/2	12	14.6	12.5	36	0.8	0136 6702 120	0136 6703 120	0136 6704 120	0136 6705 120	4 5/16	5 1/8	110	130
1/2	12	14.6	12.5	36	0.8	0136 6702 130	0136 6703 130	0136 6704 130	0136 6705 130	4 3/4	5 1/2	120	140
1/2	12	14.6	12.5	36	0.8	0136 6702 140	0136 6703 140	0136 6704 140	0136 6705 140	5 1/8	5 15/16	130	150
1/2	12	14.6	12.5	36	0.8	0136 6702 150	0136 6703 150	0136 6704 150	0136 6705 150	5 1/2	6 5/16	140	160

Note: Call for a complete list of part numbers and materials.

Available in these materials:

W1	W2	W3	W4	W5
X	X	X	X	X

**Additional TORRO® Versions (call for details)**



# TORRO® WF



A constant-tension clamp equipped with a spring insert on the inside of the clamp band.

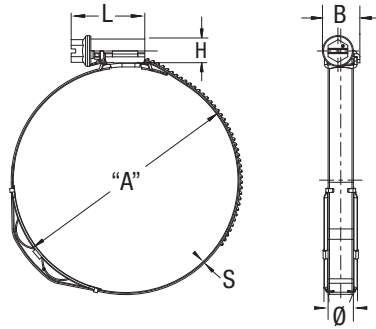
9mm & 12mm Band Widths | Three-Piece Construction | Diameter Range 8mm – 110mm

**TORRO WF (W3)**

Combi-Screw  
Non-Perforated Band with Spring  
Asymmetric Housing

**TORRO WF (W4)**

Combi-Screw  
Non-Perforated Band with Spring  
Asymmetric Housing



Band Width (Ø)		B	H	L	S	TORRO WF (W3)	TORRO WF (W4)	inches		mm (A)	
inches	mm	mm	mm	mm	mm			min	max	min	max
3/8	9	13	11	21	0.65	0127 6708 013	0127 6711 013	5/16	5/8	8	16
3/8	9	13	11	24	0.65	0127 6708 018	0127 6711 015	1/2	11/16	12	18
3/8	9	13	11	24	0.65	0127 6708 016	0127 6711 016	1/2	13/16	12	20
3/8	9	13	11	24	0.65	0127 6708 017	0127 6711 017	1/2	7/8	12	22
3/8	9	13	11	24	0.65	0127 6708 020	0127 6711 020	5/8	1	16	25
3/8	9	13	11	24	0.65	0127 6708 021	0127 6711 021	5/8	1 1/16	16	27
3/8	9	13	11	24	0.65	0127 6708 026	0127 6711 026	13/16	1 1/4	20	32
3/8	9	13	11	24	0.65	0127 6708 029	0127 6711 029	15/16	1 3/8	23	35
3/8	9	13	11	26	0.65	0127 6708 032	0127 6711 032	1	1 9/16	25	40
3/8	9	13	11	26	0.65	0127 6708 037	0127 6711 037	1 3/16	1 3/4	30	45
3/8	9	13	11	26	0.65	0127 6708 041	0127 6711 041	1 3/8	2	32	50
3/8	9	13	11	26	0.65	0127 6708 050	0127 6711 050	1 9/16	2 3/8	40	60
3/8	9	13	11	26	0.65	0127 6708 055	0127 6711 055	1 3/4	2 9/16	45	65
3/8	9	13	11	26	0.65	0127 6708 060	0127 6711 060	2	2 3/4	50	70
3/8	9	13	11	26	0.65	0127 6708 070	0127 6711 070	2 3/8	3 1/8	60	80
3/8	9	13	11	26	0.65	0127 6708 080	0127 6711 080	2 3/4	3 9/16	70	90
3/8	9	13	11	26	0.65	0127 6708 090	0127 6711 090	3 1/8	3 15/16	80	100
3/8	9	13	11	26	0.65	0127 6708 100	0127 6711 100	3 9/16	4 5/16	90	110
3/8	9	13	11	26	0.65	0127 6708 110	0127 6711 110	3 15/16	4 3/4	100	120
3/8	9	13	11	26	0.65	0127 6708 120	0127 6711 120	4 3/8	5 1/8	110	130
1/2	12	14.6	12.5	30	0.8	0137 6708 021	0137 6711 021	5/8	1 1/16	16	27
1/2	12	14.6	12.5	30	0.8	0137 6708 026	0137 6711 026	13/16	1 1/4	20	32
1/2	12	14.6	12.5	30	0.8	0137 6708 032	0137 6711 032	1	1 9/16	25	40
1/2	12	14.6	12.5	30	0.8	0137 6708 037	0137 6711 037	1 3/16	1 3/4	30	45
1/2	12	14.6	12.5	30	0.8	0137 6708 043	0137 6711 043	1 3/8	2	35	50
1/2	12	14.6	12.5	30	0.8	0137 6708 050	0137 6711 050	1 9/16	2 3/8	40	60
1/2	12	14.6	12.5	30	0.8	0137 6708 060	0137 6711 060	2	2 3/4	50	70
1/2	12	14.6	12.5	30	0.8	0137 6708 070	0137 6711 070	2 3/8	3 1/8	60	80
1/2	12	14.6	12.5	36	0.8	0137 6708 080	0137 6711 080	2 3/4	3 9/16	70	90
1/2	12	14.6	12.5	36	0.8	0137 6708 090	0137 6711 090	3 1/8	3 15/16	80	100
1/2	12	14.6	12.5	36	0.8	0137 6708 100	0137 6711 100	3 9/16	4 5/16	90	110

Note: Call for a complete list of part numbers and materials.

Available in these materials:

W1	W2	W3	W4	W5
		X	X	

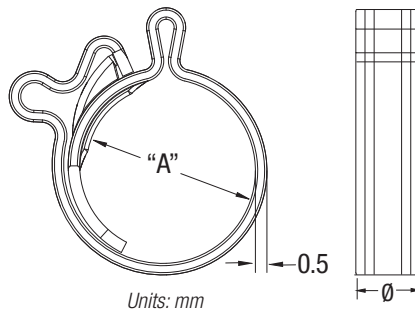
# COBRA

One-piece, bolt-free, low-profile "crimp" style connectors.



7mm & 8mm Band Widths | Bolt-Free | All 304 Stainless Steel | Diameter Range 8mm – 32mm

**COBRA (W4)**  
 Bolt-Free Crimp Style  
 7mm & 8mm Bands in 304 Stainless Steel (W4)  
 Color-Coded For Field Visibility  
 One-Piece Construction



Band Width (Ø)		COBRA (W4)	Color	Nominal Diameter		inches		mm (A)	
inchea	mm			inches	mm	min	max	min	max
1/4	7	0107 7000 075	White	5/16	7.5	5/16	3/8	8	9
1/4	7	0107 7000 008	Yellow	5/16	8	5/16	3/8	8.5	9.5
1/4	7	0107 7000 085	Green	5/16	8.5	3/8	3/8	9	10
1/4	7	0107 7000 009	Purple	3/8	9	3/8	3/8	9.5	10.5
1/4	7	0107 7000 095	Black	3/8	9.5	3/8	7/16	10	11
1/4	7	0107 7000 010	White	3/8	10	3/8	7/16	10.5	11.5
1/4	7	0107 7000 105	Yellow	7/16	10.5	7/16	1/2	11	12
1/4	7	0107 7000 011	Green	7/16	11	7/16	1/2	11.5	12.5
1/4	7	0107 7000 115	Purple	7/16	11.5	1/2	1/2	12	13
5/16	8	0108 7006 012	Black	1/2	12	1/2	9/16	12.5	14
5/16	8	0108 7006 013	Yellow	1/2	13	1/2	5/8	13.5	15
5/16	8	0108 7006 014	Purple	9/16	14	9/16	5/8	14.5	16
5/16	8	0108 7006 015	White	5/8	15	5/8	11/16	15.5	17
5/16	8	0108 7006 016	Green	5/8	16	5/8	3/4	16.5	18
5/16	8	0108 7006 017	Black	11/16	17	11/16	3/4	17.5	19
5/16	8	0108 7006 018	Yellow	3/4	18	3/4	13/16	18.5	20
5/16	8	0108 7006 019	Purple	3/4	19	3/4	13/16	19.5	21
5/16	8	0108 7006 020	White	13/16	20	13/16	7/8	20.5	22
5/16	8	0108 7006 021	Green	13/16	21	13/16	7/8	21.5	23
5/16	8	0108 7006 022	Black	7/8	22	7/8	15/16	22.5	24
5/16	8	0108 7006 023	Yellow	7/8	23	7/8	1	23.5	25
5/16	8	0108 7006 024	Purple	15/16	24	15/16	11/16	24.5	26
5/16	8	0108 7006 025	White	1	25	1	11/16	25.5	27
5/16	8	0108 7006 026	Green	11/16	26	1 1/16	1 1/8	26.5	28
5/16	8	0108 7006 027	Black	11/16	27	1 1/16	1 1/8	27.5	29
5/16	8	0108 7006 028	Yellow	1 1/8	28	1 1/8	1 3/16	28.5	30
5/16	8	0108 7006 029	Purple	1 1/8	29	1 1/8	1 1/4	29.5	31
5/16	8	0108 7006 030	White	1 3/16	30	1 3/16	1 1/4	30.5	32

Note: Call for a complete list of part numbers and materials.

Available in these materials:

W1	W2	W3	W4	W5
			x	

### COBRA Install Pliers

These handheld pliers enable precise installation and removal. The tips of the pliers' heads enable a secure grip on the clip's tool gripping points. The integrated smooth-running spring element keeps the pliers open continuously, allowing you to work quickly and comfortably.



**CHT1**  
0110 8420 000



**CHT2**  
0110 8420 004

# FBS

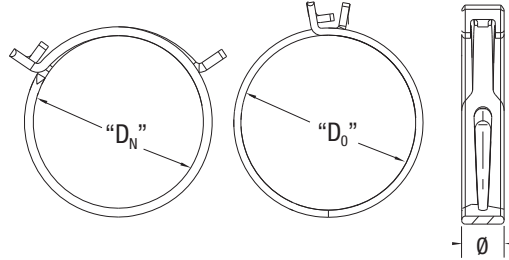


Constant-tension hose clamps, ideal for spigot systems that are exposed to significant temperature fluctuations.

12mm Band Width | C75S with Zinc/Aluminum Coating | Diameter Range 13mm – 83mm

### FBS

- Chromium-Free Coating
- 12mm Band in C75S
- Two-Color Finish Options
- Dynamic One-Piece Construction



Band Width (Ø)		FBS C75S		D <sub>n</sub>		D <sub>0</sub> (min)	
inches	mm	BLACK FINISH	SILVER FINISH	inches	mm	inches	mm
1/2	12	0112 8024 013	0112 8074 013	1/2	13	9/16	14.5
1/2	12	0112 8024 014	0112 8074 014	9/16	14	5/8	15.8
1/2	12	0112 8024 015	0112 8074 015	9/16	15	11/16	16.8
1/2	12	0112 8024 016	0112 8074 016	5/8	16	11/16	17.5
1/2	12	0112 8024 017	0112 8074 017	11/16	17	3/4	18.5
1/2	12	0112 8024 018	0112 8074 018	11/16	18	3/4	19
1/2	12	0112 8024 019	0112 8074 019	3/4	19	13/16	21
1/2	12	0112 8024 020	0112 8074 020	13/16	20	7/8	21.6
1/2	12	0112 8024 021	0112 8074 021	13/16	21	7/8	22.5
1/2	12	0112 8024 022	0112 8074 022	7/8	22	15/16	24.5
1/2	12	0112 8024 023	0112 8074 023	15/16	23	1	24.7
1/2	12	0112 8024 024	0112 8074 024	15/16	24	1	26
1/2	12	0112 8024 025	0112 8074 025	1	25	1 1/16	27
1/2	12	0112 8024 026	0112 8074 026	1	26	1 1/8	28
1/2	12	0112 8024 027	0112 8074 027	1 1/16	27	1 1/8	29
1/2	12	0112 8024 028	0112 8074 028	1 1/8	28	1 3/16	30.5
1/2	12	0112 8024 029	0112 8074 029	1 1/8	29	1 1/4	31.5
1/2	12	0112 8024 030	0112 8074 030	1 3/16	30	1 1/4	32.5
1/2	12	0112 8024 032	0112 8074 032	1 1/4	32	1 3/8	34.5
1/2	12	0112 8024 035	0112 8074 035	1 3/8	35	1 1/2	38
1/2	12	0112 8024 036	0112 8074 036	1 7/16	36	1 9/16	39
1/2	12	0112 8024 038	0112 8074 038	1 1/2	38	1 5/8	41.5
1/2	12	0112 8024 040	0112 8074 040	1 9/16	40	1 11/16	42.5
1/2	12	0112 8024 042	0112 8074 042	1 5/8	42	1 3/4	44.5
1/2	12	0112 8024 044	0112 8074 044	1 3/4	44	1 13/16	46.5
1/2	12	0112 8024 046	0112 8074 046	1 13/16	46	1 15/16	49
1/2	12	0112 8024 047	0112 8074 047	1 7/8	47	2	50
1/2	12	0112 8024 050	0112 8074 050	2	50	2 1/16	53
1/2	12	0112 8024 051	0112 8074 051	2	51	2 1/8	54
1/2	12	0112 8024 053	0112 8074 053	2 1/16	53	2 3/16	56
1/2	12	0112 8024 055	0112 8074 055	2 3/16	55	2 1/4	58
1/2	12	0112 8024 060	0112 8074 060	2 3/8	60	2 1/2	63
1/2	12	0112 8024 065	0112 8074 065	2 9/16	65	2 11/16	68
1/2	12	0112 8024 070	0112 8074 070	2 3/4	70	2 7/8	73
1/2	12	0112 8024 075	0112 8074 075	2 15/16	75	3 1/16	78
1/2	12	0112 8024 080	0112 8074 080	3 1/8	80	3 1/4	83

Note: Call for a complete list of sizes and materials.

### FBS Handheld Tools

For professional installation of FBS clamps, two types of handheld pliers are available depending on the band width involved:

Pliers: for small nominal diameters.

Pliers with safety lever: for all diameters, with integrated safety lever for fixing the pliers in position.



**Pliers**  
0115 0000 903

**Pliers with safety lever**  
0115 0000 904



# FBS HC

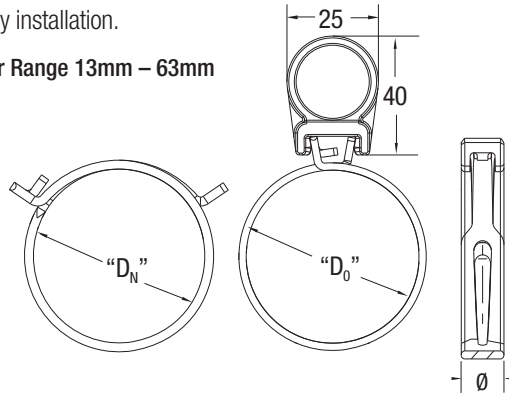
Pre-Opened FBS hose clamp with plastic clip for easy installation.

Pre-Opened HC Version with Plastic Clip | Diameter Range 13mm – 63mm



**FBS HC**

- Chromium-Free Coating
- 12mm Band in C75S
- Two-Color Finish Options
- Pre-Opened with Plastic Clip



Band Width (Ø)		FBS HC C75S (PRE-OPENED WITH CLIP)		D <sub>n</sub>		D <sub>o</sub> (min)	
inches	mm	BLACK FINISH	SILVER FINISH	inches	mm	inches	mm
1/2	12	0112 8302 013	0112 8352 013	1/2	13	9/16	14.5
1/2	12	0112 8302 014	0112 8352 014	9/16	14	5/8	15.8
1/2	12	0112 8302 015	0112 8352 015	9/16	15	11/16	16.8
1/2	12	0112 8302 016	0112 8352 016	5/8	16	11/16	17.5
1/2	12	0112 8302 017	0112 8352 017	11/16	17	3/4	18.5
1/2	12	0112 8302 018	0112 8352 018	11/16	18	3/4	19
1/2	12	0112 8302 019	0112 8352 019	3/4	19	13/16	21
1/2	12	0112 8302 020	0112 8352 020	13/16	20	7/8	21.6
1/2	12	0112 8302 021	0112 8352 021	13/16	21	7/8	22.5
1/2	12	0112 8302 022	0112 8352 022	7/8	22	15/16	24.5
1/2	12	0112 8302 023	0112 8352 023	15/16	23	1	24.7
1/2	12	0112 8302 024	0112 8352 024	15/16	24	1	26
1/2	12	0112 8302 025	0112 8352 025	1	25	1 1/16	27
1/2	12	0112 8302 026	0112 8352 026	1	26	1 1/8	28
1/2	12	0112 8302 027	0112 8352 027	1 1/16	27	1 1/8	29
1/2	12	0112 8302 028	0112 8352 028	1 1/8	28	1 3/16	30.5
1/2	12	0112 8302 029	0112 8352 029	1 1/8	29	1 1/4	31.5
1/2	12	0112 8302 030	0112 8352 030	1 3/16	30	1 1/4	32.5
1/2	12	0112 8302 032	0112 8352 032	1 1/4	32	1 3/8	34.5
1/2	12	0112 8302 035	0112 8352 035	1 3/8	35	1 1/2	38
1/2	12	0112 8302 036	0112 8352 036	1 7/16	36	1 9/16	39
1/2	12	0112 8302 038	0112 8352 038	1 1/2	38	1 5/8	41.5
1/2	12	0112 8302 040	0112 8352 040	1 9/16	40	1 11/16	42.5
1/2	12	0112 8302 042	0112 8352 042	1 5/8	42	1 3/4	44.5
1/2	12	0112 8302 044	0112 8352 044	1 3/4	44	1 13/16	46.5
1/2	12	0112 8302 046	0112 8352 046	1 13/16	46	1 15/16	49
1/2	12	0112 8302 047	0112 8352 047	1 7/8	47	2	50
1/2	12	0112 8302 050	0112 8352 050	2	50	2 1/16	53
1/2	12	0112 8302 055	0112 8352 055	2 3/16	55	2 1/4	58
1/2	12	0112 8302 060	0112 8352 060	2 3/8	60	2 1/2	63

Note: Call for a complete list of sizes and materials.

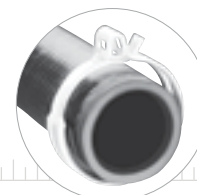
Available in these materials:

C75S: Zinc/Aluminum Base Coat with Organic Top Coat

## Additional FBS Versions (call for details)



FBS MC



FBS C



FBS R

# GBS



Heavy-Duty clamp, ideal for fastening compressed air hoses with high degrees of hardness or plastic/steel reinforcement.

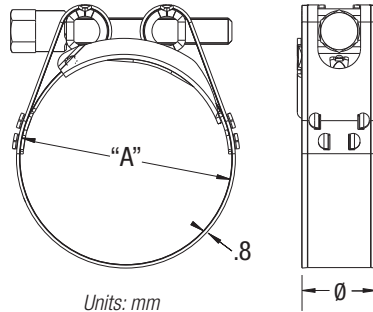
18mm – 30mm Band Widths | Exceptionally High Tensile Force | Diameter Range 17mm – 304mm

**GBS (W1)**  
Heavy-Duty T-Bolt with Hollow Trunnions  
(W1) Stainless Steel Rounded Band with Bridge

**GBS (W2)**  
Heavy-Duty T-Bolt with Hollow Trunnions  
(W2) Stainless Steel Rounded Band with Bridge

**GBS (W4)**  
Heavy-Duty T-Bolt with Hollow Trunnions  
(W4) Stainless Steel Rounded Band with Bridge

**GBS (W5)**  
Heavy-Duty T-Bolt with Hollow Trunnions  
(W5) Stainless Steel Rounded Band with Bridge



Units: mm



Band Width (Ø)		GBS (W1)	GBS (W2)	GBS (W4)	GBS (W5)	inches		mm (A)	
inches	mm					min	max	min	max
11/16	18	0591 7181 018	0591 7182 018	0591 7184 018	0591 7185 018	11/16	3/4	17	19
11/16	18	0591 7181 020	0591 7182 020	0591 7184 020	0591 7185 020	3/4	13/16	19	21
11/16	18	0591 7181 022	0591 7182 022	0591 7184 022	0591 7185 022	13/16	15/16	21	23
11/16	18	0591 7181 024	0591 7182 024	0591 7184 024	0591 7185 024	15/16	1	23	25
11/16	18	0591 7181 026	0591 7182 026	0591 7184 026	0591 7185 026	1	1 1/9	25	27
11/16	18	0591 7181 028	0591 7182 028	0591 7184 028	0591 7185 028	1 1/16	1 1/8	27	29
11/16	18	0591 7181 030	0591 7182 030	0591 7184 030	0591 7185 030	1 1/8	1 1/4	29	31
11/16	18	0591 7181 033	0591 7182 033	0591 7184 033	0591 7185 033	1 1/4	1 1/3	31	34
11/16	18	0591 7181 036	0591 7182 036	0591 7184 036	0591 7185 036	1 5/16	1 4/9	34	37
11/16	18	0591 7181 039	0591 7182 039	0591 7184 039	0591 7185 039	1 7/16	1 5/9	37	40
11/16	18	0591 7181 042	0591 7182 042	0591 7184 042	0591 7185 042	1 9/16	1 2/3	40	43
13/16	20	0591 7201 045	0591 7202 045	0591 7204 045	0591 7205 045	1 11/16	1 7/8	43	47
13/16	20	0591 7201 049	0591 7202 049	0591 7204 049	0591 7205 049	1 7/8	2	47	51
13/16	20	0591 7201 053	0591 7202 053	0591 7204 053	0591 7205 053	2	2 1/5	51	55
13/16	20	0591 7201 057	0591 7202 057	0591 7204 057	0591 7205 057	2 3/16	2 1/3	55	59
13/16	20	0591 7201 061	0591 7202 061	0591 7204 061	0591 7205 061	2 5/16	2 1/2	59	63
13/16	20	0591 7201 066	0591 7202 066	0591 7204 066	0591 7205 066	2 1/2	2 2/3	63	68
1	25	0591 7251 071	0591 7252 071	0591 7254 071	0591 7255 071	2 11/16	2 7/8	68	73
1	25	0591 7251 076	0591 7252 076	0591 7254 076	0591 7255 076	2 7/8	3 1/8	73	79
1	25	0591 7251 082	0591 7252 082	0591 7254 082	0591 7255 082	3 1/8	3 3/8	79	85
1	25	0591 7251 088	0591 7252 088	0591 7254 088	0591 7255 088	3 3/8	3 5/9	85	91
1	25	0591 7251 094	0591 7252 094	0591 7254 094	0591 7255 094	3 9/16	3 4/5	91	97
1	25	0591 7251 101	0591 7252 101	0591 7254 101	0591 7255 101	3 13/16	4 1/6	97	104
1	25	0591 7251 108	0591 7252 108	0591 7254 108	0591 7255 108	4 1/16	4 4/9	104	112
1	25	0591 7251 117	0591 7252 117	0591 7254 117	0591 7255 117	4 7/16	4 3/4	112	121
1	25	0591 7251 126	0591 7252 126	0591 7254 126	0591 7255 126	4 3/4	5 1/8	121	130

Band Width (Ø)		GBS (W1)	GBS (W2)	GBS (W4)	GBS (W5)	inches		mm (A)	
inches	mm					min	max	min	max
1 3/16	30	0591 7301 135	0591 7302 135	0591 7304 135	0591 7305 135	5 1/8	5 1/2	130	140
1 3/16	30	0591 7301 145	0591 7302 145	0591 7304 145	0591 7305 145	5 1/2	5 8/9	140	150
1 3/16	30	0591 7301 156	0591 7302 156	0591 7304 156	0591 7305 156	5 15/16	6 3/8	150	162
1 3/16	30	0591 7301 168	0591 7302 168	0591 7304 168	0591 7305 168	6 3/8	6 7/8	162	174
1 3/16	30	0591 7301 181	0591 7302 181	0591 7304 181	0591 7305 181	6 7/8	7 3/8	174	187
1 3/16	30	0591 7301 194	0591 7302 194	0591 7304 194	0591 7305 194	7 3/8	7 7/8	187	200
1 3/16	30	0591 7301 207	0591 7302 207	0591 7304 207	0591 7305 207	7 7/8	8 3/8	200	213
1 3/16	30	0591 7301 220	0591 7302 220	0591 7304 220	0591 7305 220	8 3/8	8 7/8	213	226
1 3/16	30	0591 7301 233	0591 7302 233	0591 7304 233	0591 7305 233	8 7/8	9 4/9	226	239
1 3/16	30	0591 7301 246	0591 7302 246	0591 7304 246	0591 7305 246	9 7/16	9 8/9	239	252
1 3/16	30	0591 7301 259	0591 7302 259	0591 7304 259	0591 7305 259	9 15/16	10 4/9	252	265
1 3/16	30	0591 7301 272	0591 7302 272	0591 7304 272	0591 7305 272	10 7/16	10 8/9	265	278
1 3/16	30	0591 7301 285	0591 7302 285	0591 7304 285	0591 7305 285	11	11 4/9	279	291
1 3/16	30	0591 7301 298	0591 7302 298	0591 7304 298	0591 7305 298	11 1/2	12	292	304

Note: Call for a complete list of part numbers and materials.

Available in these materials:

W1	W2	W3	W4	W5
X	X		X	X

### Additional GBS Versions Available (call for details)



GBS STC



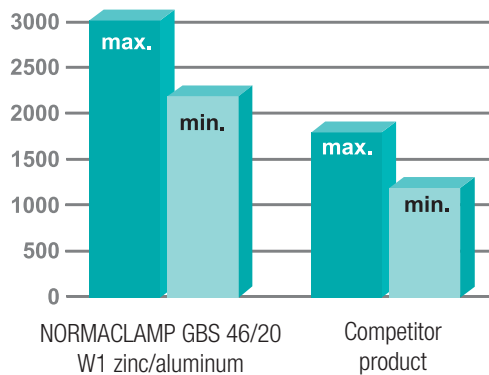
GBS QRC



GBS Multi-parts



GBS Rubber Cushion



### Band Tensile Force

This table illustrates the results of numerous series of tests underlining the technical superiority of NORMACLAMP® GBS products over their competitors.

# RS/RSGU



Retaining clip for pipes, cables, cable harnesses, cable-protection pipes, hoses and other lines.

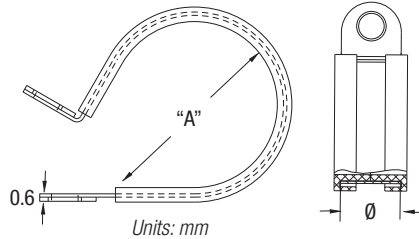
12mm – 20mm Band Widths | Aluzinc/Galvanized or 316 Stainless Steel | Diameter Range 6mm – 40mm

**RS/RSGU (W1)**

Aluzinc/Galvanized Band  
Reinforced Band End  
RSGU w/EPDM Rubber Cushion

**RS/RSGU (W5)**

316 Stainless Steel Band  
Reinforced Band End  
RSGU w/EPDM Rubber Cushion



Band Width (Ø)		RSGU (W1) with cushion	RSGU (W5) with cushion	inches	mm (A)
inches	mm				
1/2	12	0941 8912 006	0941 7712 006	1/4	6
1/2	12	0941 8912 008	0941 7712 008	5/16	8
1/2	12	0941 8912 010	0941 7712 010	3/8	10
1/2	12	0941 8912 012	0941 7712 012	1/2	12
1/2	12	0941 8912 013	0941 7712 013	1/2	13
1/2	12	0941 8912 014	0941 7712 014	9/16	14
1/2	12	0941 8912 015	0941 7712 015	5/8	15
1/2	12	0941 8912 016	0941 7712 016	5/8	16
1/2	12	0941 8912 018	0941 7712 018	3/4	18
1/2	12	0941 8912 019	0941 7712 019	3/4	19
1/2	12	0941 8912 020	0941 7712 020	13/16	20
1/2	12	0941 8912 021	0941 7712 021	13/16	21
1/2	12	0941 8912 022	0941 7712 022	7/8	22
9/16	15	0941 8915 006	0941 7715 006	1/4	6
9/16	15	0941 8915 008	0941 7715 008	5/16	8
9/16	15	0941 8915 010	0941 7715 010	3/8	10
9/16	15	0941 8915 012	0941 7715 012	1/2	12
9/16	15	0941 8915 013	0941 7715 013	1/2	13
9/16	15	0941 8915 014	0941 7715 014	9/16	14
9/16	15	0941 8915 015	0941 7715 015	5/8	15
9/16	15	0941 8915 016	0941 7715 016	5/8	16
9/16	15	0941 8915 018	0941 7715 018	3/4	18
9/16	15	0941 8915 019	0941 7715 019	3/4	19
9/16	15	0941 8915 020	0941 7715 020	13/16	20
9/16	15	0941 8915 021	0941 7715 021	13/16	21
9/16	15	0941 8915 022	0941 7715 022	7/8	22
9/16	15	0941 8915 023	0941 7715 023	7/8	23
9/16	15	0941 8915 025	0941 7715 025	1	25

Band Width (Ø)		RSGU (W1) with cushion	RSGU (W5) with cushion	inches	mm (A)
inches	mm				
9/16	15	0941 8915 026	0941 7715 026	1 1/16	26
9/16	15	0941 8915 028	0941 7715 028	1 1/8	28
9/16	15	0941 8915 030	0941 7715 030	1 3/16	30
9/16	15	0941 8915 032	0941 7715 032	1 1/4	32
9/16	15	0941 8915 034	0941 7715 034	1 5/16	34
9/16	15	0941 8915 035	0941 7715 035	1 3/8	35
13/16	20	0941 8920 009	0941 7720 010	3/8	10
13/16	20	0941 8920 011	0941 7720 012	1/2	12
13/16	20	0941 8920 012	0941 7720 013	1/2	13
13/16	20	0941 8920 013	0941 7720 014	9/16	14
13/16	20	0941 8920 014	0941 7720 015	5/8	15
13/16	20	0941 8920 015	0941 7720 016	5/8	16
13/16	20	0941 8920 017	0941 7720 018	3/4	18
13/16	20	0941 8920 018	0941 7720 019	3/4	19
13/16	20	0941 8920 019	0941 7720 020	13/16	20
13/16	20	0941 8920 021	0941 7720 022	7/8	22
13/16	20	0941 8920 022	0941 7720 023	7/8	23
13/16	20	0941 8920 023	0941 7720 024	15/16	24
13/16	20	0941 8920 024	0941 7720 025	1	25
13/16	20	0941 8920 027	0941 7720 028	11/8	28
13/16	20	0941 8920 029	0941 7720 030	13/16	30
13/16	20	0941 8920 032	0941 7720 032	11/4	32
13/16	20	0941 8920 034	0941 7720 034	15/16	34
13/16	20	0941 8920 035	0941 7720 035	13/8	35
13/16	20	0941 8920 036	0941 7720 036	17/16	36
13/16	20	0941 8920 038	0941 7720 038	11/2	38
13/16	20	0941 8920 040	0941 7720 040	19/16	40

Note: Call for a complete list of sizes and materials.

Available in these materials:

W1	W2	W3	W4	W5
X		X	X	X

RS (without EPDM Cushion)

Band Width (Ø)		RS (W1) without cushion	RS (W5) without cushion	inches	mm	Band Width (Ø)		RS (W1) without cushion	RS (W5) without cushion	inches	mm
inches	mm					inches	mm				
1/2	12	0411 8912 006	0411 7712 006	1/4	6	9/16	15	0411 8915 025	0411 7715 025	1	25
1/2	12	0411 8912 008	0411 7712 008	5/16	8	9/16	15	0411 8915 026	0411 7715 026	1 1/16	26
1/2	12	0411 8912 010	0411 7712 010	3/8	10	9/16	15	0411 8915 028	0411 7715 028	1 1/8	28
1/2	12	0411 8912 012	0411 7712 012	1/2	12	9/16	15	0411 8915 030	0411 7715 030	1 3/16	30
1/2	12	0411 8912 013	0411 7712 013	1/2	13	9/16	15	0411 8915 032	0411 7715 032	1 1/4	32
1/2	12	0411 8912 014	0411 7712 014	9/16	14	9/16	15	0411 8915 034	0411 7715 034	1 5/16	34
1/2	12	0411 8912 015	0411 7712 015	5/8	15	9/16	15	0411 8915 035	0411 7715 035	1 3/8	35
1/2	12	0411 8912 016	0411 7712 016	5/8	16	13/16	20	0411 8920 009	0411 7720 010	3/8	10
1/2	12	0411 8912 018	0411 7712 018	3/4	18	13/16	20	0411 8920 011	0411 7720 012	1/2	12
1/2	12	0411 8912 019	0411 7712 019	3/4	19	13/16	20	0411 8920 012	0411 7720 013	1/2	13
1/2	12	0411 8912 020	0411 7712 020	13/16	20	13/16	20	0411 8920 013	0411 7720 014	9/16	14
1/2	12	0411 8912 021	0411 7712 021	13/16	21	13/16	20	0411 8920 014	0411 7720 015	5/8	15
1/2	12	0411 8912 022	0411 7712 022	7/8	22	13/16	20	0411 8920 015	0411 7720 016	5/8	16
9/16	15	0411 8915 006	0411 7715 006	1/4	6	13/16	20	0411 8920 017	0411 7720 018	3/4	18
9/16	15	0411 8915 008	0411 7715 008	5/16	8	13/16	20	0411 8920 018	0411 7720 019	3/4	19
9/16	15	0411 8915 010	0411 7715 010	3/8	10	13/16	20	0411 8920 019	0411 7720 020	13/16	20
9/16	15	0411 8915 012	0411 7715 012	1/2	12	13/16	20	0411 8920 021	0411 7720 022	7/8	22
9/16	15	0411 8915 013	0411 7715 013	1/2	13	13/16	20	0411 8920 022	0411 7720 023	7/8	23
9/16	15	0411 8915 014	0411 7715 014	9/16	14	13/16	20	0411 8920 023	0411 7720 024	15/16	24
9/16	15	0411 8915 015	0411 7715 015	5/8	15	13/16	20	0411 8920 024	0411 7720 025	1	25
9/16	15	0411 8915 016	0411 7715 016	5/8	16	13/16	20	0411 8920 027	0411 7720 028	11/8	28
9/16	15	0411 8915 018	0411 7715 018	3/4	18	13/16	20	0411 8920 029	0411 7720 030	13/16	30
9/16	15	0411 8915 019	0411 7715 019	3/4	19	13/16	20	0411 8920 032	0411 7720 032	11/4	32
9/16	15	0411 8915 020	0411 7715 020	13/16	20	13/16	20	0411 8920 034	0411 7720 034	15/16	34
9/16	15	0411 8915 021	0411 7715 021	13/16	21	13/16	20	0411 8920 035	0411 7720 035	13/8	35
9/16	15	0411 8915 022	0411 7715 022	7/8	22	13/16	20	0411 8920 036	0411 7720 036	17/16	36
9/16	15	0411 8915 023	0411 7715 023	7/8	23	13/16	20	0411 8920 038	0411 7720 038	11/2	38
						13/16	20	0411 8920 040	0411 7720 040	19/16	40

Note: Call for a complete list of sizes and materials.

Available in these materials:

W1	W2	W3	W4	W5
X		X	X	X

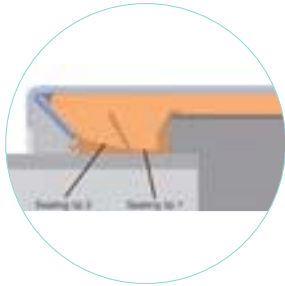
Additional RS & RSGU Versions Available (call for details)



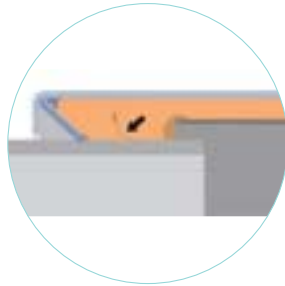
## FGR

FGR pipe couplings are a compact, economical and reliable means of connecting plain-ended pipes. They are suitable to join plastic and metal pipes, and especially pipes made from stainless steel. They can be used in mechanical engineering and construction, shipbuilding, civil engineering and in hydro technology.

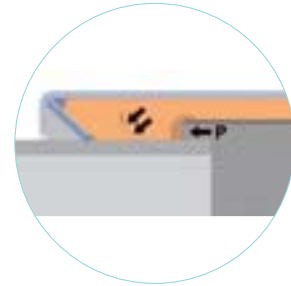
### Double-lip sealing system



(Fig. A)



(Fig. B)



(Fig. C)

The patented double-lip sealing system (Fig. A) of the FGR pipe couplings offers double safety. It provides maximum sealability at both low and high operating pressures.

When the bolts of the coupling are tightened, sealing lip 1 is pressed onto sealing lip 2, thus providing a highly reliable seal even under conditions of low pressure, vacuum or extreme loads acting on the joint (Fig. B).

The special sealing lip design means that when the internal pressure (P) increases, the sealing lips are pressed more firmly onto the pipe surface ensuring an even stronger seal (Fig. C).

### Coupling Types and Suitable Applications

Pipes to be Joined	Size (mm)	FLEX	FLEX E	FLEX 3	REP E
Metal to Metal	26.9 to 168.3	70 to 32 bar	70 to 32 bar	-	60 to 32 bar
	180.0 to 1219.2	50 to 7 bar	30 to 4 bar	-	30 to 4 bar
	326.0 to 2032.0	-	-	16.5 to 1.5 bar	-
Plastic to Plastic	26.9 to 168.3	16 bar	16 bar	-	16 bar
	180.0 to 1219.2	16 to 4 bar	16 to 4 bar	-	16 to 4 bar
Metal to Plastic	26.9 to 168.3	16 bar	16 bar	-	-
	180.0 to 1219.2	16 to 7 bar	16 to 7 bar	-	-

Pipes to be Joined	Size (mm)	GRIP	GRIP E	COMBI-GRIP E	COMBI-GRIP	PLAST-GRIP E	PLAST-GRIP	GRIP E-FP
Metal to Metal	26.9 to 168.3	70 to 32 bar	70 to 32 bar	-	-	-	-	60 to 32 bar
	180.0 to 419.0	-	20 to 2 bar	-	-	-	-	20 to 65 bar
	180.0 to 711.2	32 to 2.5 bar	-	-	-	-	-	-
Plastic to Plastic	40.0 to 168.3	-	-	-	-	16 bar	-	-
	200.0 to 406.4	-	-	-	-	-	16 to 6 bar	-
Metal to Plastic	38/40 to 160/168.3	16 bar	16 bar	16 bar	-	-	-	-
	200.0/204.0 to 406.0/406.4	-	-	-	16 to 6 bar	-	-	-

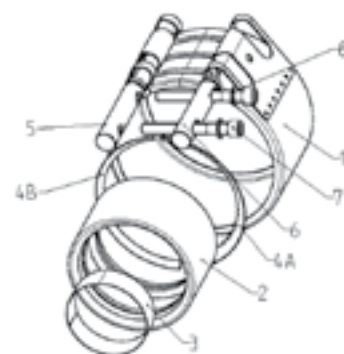
## Sealing Sleeves (Areas of application and temperature resistance)

Material of Seal	EPDM	NBR
Temperature Range	-30 °C up to +125 °C OD 26.9 up to 168.3 mm  -20 °C up to +80 °C OD > 180 mm	-20 °C up to +80 °C
Media	Drinking water Alcohols Compressed air Solids	Water Oils Gases (combustible) Fuels Hydrocarbon solutions



## FGR Materials

W4				
No.	Component	FLEX/FLEX E	GRIP/GRIP E	PLAST-GRIP / PLAST-GRIP E
1	Housing with bridge	304/304 S31	304/304 S31	304/304 S31
2	Sealing sleeve	EPDM/NBR	EPDM/NBR	EPDM/NBR
3	Strip insert <sup>1</sup>	316Ti/320 S31/PA-GR	316Ti/320 S31/PA-GR	316Ti/320 S31/PA-GR
4 A	Anchoring ring for metal pipes <sup>2</sup>	–	301/301 S21	–
4 A	Anchoring ring for plastic pipes <sup>2</sup>	–	–	PA-GF-NS <sup>3</sup>
4 B	Protection ring	316Ti/320 S31	316Ti/320 S31	–
5 + 6	Solid locking trunnions	316L	316L	1.4404
5 + 6	Hollow locking trunnions	316Ti/320 S31	316Ti/320 S31	1.4571
7	Locking bolts	A4-80/316	A4-80/316	A4-80
8	Washer	A4-80/316	A4-80/316	A4-80



<sup>1</sup> PA-GF plastic strip inserts are only for pipe couplings used in shipbuilding applications.

<sup>2</sup> COMBI GRIP couplings are equipped with two different anchoring rings (1 x for the metal end, 1 x for the plastic end).

<sup>3</sup> PA-GF: PA reinforced with fiberglass; NS: new silver.

W5						
No.	Component	FLEX/FLEX E	GRIP/GRIP E	COMBI-GRIP/ COMBI-GRIP E	PLAST-GRIP/ PLAST-GRIP E	REP E
1	Housing	316Ti/320 S31	316Ti/320 S31	316Ti/320 S31	316Ti/320 S31	316Ti/320 S31
2	Sealing sleeve	EPDM/NBR	EPDM/NBR	EPDM/NBR	EPDM/NBR	EPDM/NBR
3	Strip insert <sup>1</sup>	316Ti/320 S31/PA-GR	316Ti/320 S31/PA-GR	316Ti/320 S31/PA-GR	316Ti/320 S31/PA-GR	316Ti/320 S31/PA-GR
4 A	Anchoring ring for metal pipes <sup>2</sup>	–	301/301 S21	301/301 S21 301/301 S21	–	–
4 A	Anchoring ring for plastic pipes <sup>2</sup>	–	–	PA-GF-NS <sup>3</sup>	PA-GF-NS <sup>3</sup>	–
4 B	Protection ring	316Ti/320 S31	-	–	-	-
5 + 6	Solid locking trunnions	316L	316L	316L	316L	316L
5 + 6	Hollow locking trunnions	316Ti/320 S31	316Ti/320 S31	316Ti/320 S31	316Ti/320 S31	316Ti/320 S31
7	Locking bolts	A4-80/316	A4-80/316	A4-80/316	A4-80/316	A4-80/316
8	Washer	A4-80/316	A4-80/316	A4-80/316	A4-80/316	A4-80/316

<sup>1</sup> PA-GF plastic strip inserts are only for pipe couplings used in shipbuilding applications.

<sup>2</sup> COMBI GRIP couplings are equipped with two different anchoring rings (1 x for the metal end, 1 x for the plastic end).

<sup>3</sup> PA-GF: PA reinforced with fiberglass; NS: new silver.

# FGR FLEX E

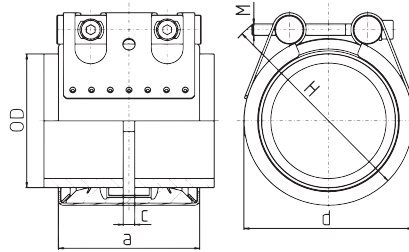


Used for axial non-restraint connections for metal, concrete and plastic pipes.

Standard Strip Insert and Protection Ring | Double-Lip Sealing System | Hollow Trunnions | Diameter Range 33mm – 1222mm

## FLEX E (W4)

316 Stainless Steel Inner Ring (EPDM/NBR)  
Heavy-Duty Lock Bars  
304 Stainless Steel Housing



FLEX E (W4)		PN <sup>1</sup>		WP <sup>2</sup>		O.D.	c (max)	Dimensions			Clamping Range			
		[bar]	psi	[bar]	psi			a	d	H	inches		mm	
NBR	EPDM					mm	mm	mm	mm	mm	min	max	min	max
0582 8500 033	0582 9200 033	16	232	60	870	34	3	67	55	75	1 5/16	1 3/8	33	34
0582 8500 048	0582 9200 048	16	232	50	725	48	8	63	70	90	1 7/8	2	48	51
0582 8500 060	0582 9200 060	16	232	40	580	60	17	78	85	105	2 3/8	2 3/8	60	61
0582 9200 073	0582 9200 073	16	232	40	580	73	25	98	95	115	2 13/16	2 15/16	72	74
0582 8500 076	0582 9200 076	16	232	35	508	76	25	98	100	120	2 15/16	3 1/16	75	77
0582 8500 088	0582 9200 088	16	232	35	508	89	25	98	110	130	3 7/16	3 9/16	87	90
0582 8500 114	0582 9200 114	16	232	35	508	114	25	98	135	155	4 7/16	4 9/16	113	116
0582 8500 139	0582 9200 139	16	232	32	464	140	35	113	165	195	5 7/16	5 9/16	138	142
0582 8500 168	0582 9200 168	16	232	32	464	168	35	113	195	225	6 9/16	6 11/16	167	170
0583 8520 219	0583 9200 219	13.5	195	23	333	219	35	139	250	280	8 1/2	8 11/16	216	221
0583 8520 229	0583 9200 229	12	174	23	333	229	35	139	260	290	9	9 1/8	228	232
0583 8520 273	0583 9200 273	12	174	20	290	273	35	139	305	335	10 5/8	10 13/16	270	275
0583 8520 306	0583 9200 306	9	130	17.5	253	306	35	139	340	370	11 7/8	12 1/8	302	308
0583 8520 355	0583 9200 355	9	130	15	217	355	35	139	390	420	11 7/8	14 1/8	352	359
0583 8520 457	0583 9200 457	5.5	79	12	174	457	35	139	490	520	17 7/8	18 1/16	454	459
0583 8520 558	0583 9200 558	5.5	79	10	145	558	35	139	590	620	21 7/8	22 1/8	556	562
0583 8520 711	0583 9200 711	4	58	7	101	711	35	139	745	775	27 13/16	28 1/8	707	715
0583 8520 914	0583 9200 914	2	29	5.5	79	914	35	139	945	1035	35 13/16	36 3/16	909	919
0583 8520 1117	0583 9200 1117	2	29	4.5	65	1117	35	139	1150	1240	43 7/8	44 1/8	1114	1120
0583 8520 1219	0583 9200 1219	2	29	4	58	1219	35	139	1250	1340	47 7/8	48 1/8	1216	1222

Note: Call for a complete list of sizes and materials.

<sup>1</sup> Nominal Pressure is the maximum admissible working pressure in shipbuilding, based on a safety factor of  $\geq 4$ .

<sup>2</sup> Working Pressure is the maximum admissible working pressure in industrial applications, as per NORMA specification.

Available in these materials:

W1	W2	W3	W4	W5
	X		X	X



# FGR REP E

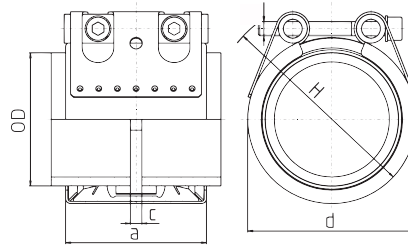


Repair coupling for axial non-restraint couplings to stop leakages at metal or plastic pipes.

Standard Strip Insert and Protection Ring | Double-Lip Sealing System | Hollow Trunnions | Diameter Range 44mm – 1222mm

**REP E (W5)**

- 316 Stainless Steel Inner Ring (EPDM/NBR)
- Heavy-Duty Lock Bars
- 316 Stainless Steel Housing



REP E (W5)		WP <sup>1</sup>		O.D.	c (max)	Dimensions			Clamping Range			
NBR	EPDM	[bar]	psi			a	d	H	inches		mm	
0572 8660 044	0572 9360 044	50	725	45	8	63	65	85	1 5/16	1 3/8	44	45
0572 8660 048	0572 9360 048	50	725	48	8	63	70	90	1 7/8	2	48	51
0572 8660 060	0572 9360 060	40	580	60	17	78	85	105	2 5/16	2 3/8	60	61
0572 8660 073	0572 9360 073	40	580	73	25	98	95	115	2 3/8	2 5/16	72	74
0572 8660 076	0572 9360 076	35	508	76	25	98	100	120	2 7/8	3	75	77
0572 8660 088	0572 9360 088	35	508	89	25	98	110	130	3 7/16	3 9/16	87	90
0572 8660 101	0572 9360 101	35	508	102	25	98	125	145	2 15/16	2 1/16	100	103
0572 8660 114	0572 9360 114	35	508	114	25	98	135	155	4 7/16	4 9/16	113	116
0572 8660 139	0572 9360 139	32	464	134	35	113	165	195	5 7/16	5 9/16	138	142
0572 8660 141	0572 9360 141	32	464	142	35	113	170	200	5 1/2	5 5/8	140	143
0572 8660 168	0572 9360 168	32	464	168	35	113	195	225	6 5/8	6 3/4	167	170
0576 8660 219	0576 9360 219	23	333	219	35	139	250	280	8 1/2	8 11/16	216	221
0576 8660 229	0576 9360 229	23	333	229	35	139	260	290	9	9 1/8	228	232
0576 8660 273	0576 9360 273	20	290	273	35	139	305	335	10 5/8	10 13/16	270	275
0576 8660 306	0576 9360 306	17.5	253	306	35	139	340	370	11 7/8	12 1/8	302	308
0576 8660 355	0576 9360 355	15	217	355	35	139	390	420	11 7/8	14 1/8	352	359
0576 8660 457	0576 9360 457	12	174	457	35	139	490	520	17 7/8	18 1/16	454	459
0576 8660 558	0576 9360 558	10	145	558	35	139	590	620	21 7/8	22 1/8	556	562
0576 8660 711	0576 9360 711	7	101	711	35	139	745	775	27 13/16	28 1/8	707	715
0576 8660 914	0576 9360 914	5.5	79	914	35	139	945	975	35 13/16	36 3/16	909	919
0576 8660 1117	0576 9360 1117	4.5	65	1117	35	139	1150	1180	43 7/8	44 1/8	1114	1120
0576 8660 1219	0576 9360 1219	4	58	1219	35	139	1250	1280	47 7/8	48 1/8	1216	1222

Note: Call for a complete list of sizes and materials.

<sup>1</sup> Working Pressure is the maximum admissible working pressure in industrial applications, as per NORMA specification.

Available in these materials:

W1	W2	W3	W4	W5
				X

# FGR GRIP E

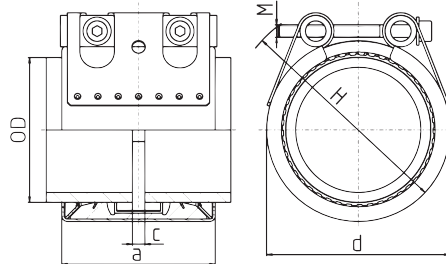


Double-lipped axial restraint pipe coupling with conically stamped teeth for metal pipes.

Conically Stamped Teeth | Double-Lip Sealing System | Hollow Trunnions | Diameter Range 26mm – 613mm

### GRIP E (W4)

- 316 Stainless Steel Inner Ring (EPDM/NBR)
- Heavy-Duty Lock Bars
- 304 Stainless Steel Housing



GRIP E (W4)		PN <sup>1</sup>		WP <sup>2</sup>		O.D.	c (max)	Dimensions			Clamping Range			
NBR	EPDM	[bar]	psi	[bar]	psi			a	d	H	inches		mm	
						mm	mm	mm	mm	mm	min	max	min	max
0579 8500 026	0579 9200 026	16	232	70	1015	27	3	67	560	70	1	1 1/16	26	28
0579 8500 033	0579 9200 033	16	232	60	870	34	3	67	55	75	1 5/16	1 3/8	33	34
0579 8500 042	0579 9200 042	16	232	50	725	42	8	63	65	85	1 11/16	1 13/16	42	43
0579 8500 048	0579 9200 048	16	232	50	725	48	8	63	70	90	1 7/8	2	48	51
0579 8500 054	0579 9200 054	16	232	50	725	54	17	78	75	95	2 1/8	2 3/16	53	55
0579 8500 057	0579 9200 057	16	232	50	725	57	17	78	80	100	2 3/16	2 1/4	56	58
0579 8500 060	0579 9200 060	16	232	40	580	60	17	78	85	105	2 5/16	2 3/8	60	61
0579 8500 073	0579 9200 073	16	232	40	580	73	25	98	95	115	2 13/16	2 15/16	72	74
0579 8500 076	0579 9200 076	16	232	35	508	76	25	98	100	120	2 7/8	3	75	77
0579 8500 088	0579 9200 088	16	232	35	508	89	25	98	110	130	3 7/16	3 9/16	87	90
0579 8500 108	0579 9200 108	16	232	35	508	108	25	98	130	150	4 3/16	4 5/16	107	109
0579 8500 114	0579 9200 114	16	232	35	508	114	25	98	135	155	4 7/16	4 9/16	113	116
0579 8500 139	0579 9200 139	16	232	32	464	140	35	115	165	195	5 7/16	5 9/16	138	142
0579 8500 154	0579 9200 154	16	232	32	464	154	35	115	180	210	6	6 1/8	152	156
0579 8500 168	0579 9200 168	16	232	32	464	168	35	115	195	225	6 5/8	6 3/4	167	170
0574 8500 219	0574 9200 219	10	145	20	290	219	35	141	250	280	8 1/2	8 11/16	216	221
0574 8500 273	0574 9200 273	5.5	79	13	188	273	35	140	305	335	10 5/8	10 13/16	270	275
0574 8500 306	0574 9200 306	5.5	79	10.5	152	306	35	140	340	370	11 7/8	12 1/8	302	308
0574 8500 323	0574 9200 323	3	43	9.5	137	324	35	140	355	385	12 5/8	12 7/8	320	327
0574 8500 355	0574 9200 355	2.7	39	8.5	123	355	35	140	390	420	13 27/32	14 1/8	352	359
0574 8500 429	0574 9200 429	2.5	36	6.5	94	429	35	140	460	490	16 25/32	16 31/32	426	431
0574 8500 457	0574 9200 457	2.5	36	6.0	87	457	35	140	490	520	17 7/8	18 1/16	454	459
0574 8500 531	0574 9200 531	1.5	22	4.0	58	531	35	140	565	595	20 25/32	21	528	534
0574 8500 609	0574 9200 609	1	15	2.0	29	609	35	140	640	670	23 27/32	24 1/8	606	613

Note: Call for a complete list of sizes and materials.

<sup>1</sup> Nominal Pressure is the maximum admissible working pressure in shipbuilding, based on a safety factor of  $\geq 4$ .

<sup>2</sup> Working Pressure is the maximum admissible working pressure in industrial applications, as per NORMA specification.

Available in these materials:

W1	W2	W3	W4	W5
	X		X	X

# FGR COMBI-GRIP E

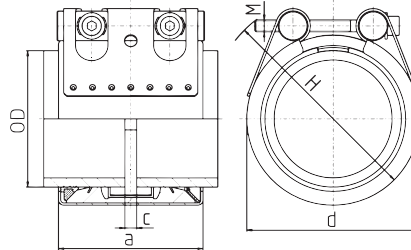


Economical axial restraint coupling for connecting metal pipes with plastic pipes.

Flat and Conically Stamped Teeth | Double-Lip Sealing System | Optional Support Sleeve\* | Hollow Trunnions | Diameter Range 39mm – 170mm

### COMBI-GRIP E (W5)

- 316 Stainless Steel Inner Ring (EPDM/NBR)
- Heavy-Duty Lock Bars
- One-Side of Flat Teeth (For Plastic)
- One-Side of Conically Stamped Teeth (For Metal)



COMBI-GRIP E (W5) INCHES		PN <sup>1</sup>		WP <sup>2</sup>		O.D. Metal Side	O.D. Plastic Side	c (max)	Dimensions			Clamping Range			
NBR	EPDM	[bar]	psi	[bar]	psi	inches	inches	inches	a	d	H	Plastic (in.)		Metal (in.)	
									inches	inches	inches	min	max	min	max
0584 8660 042	0584 9360 042	10	145	16	232	1 11/16	1 9/16	5/16	2 7/16	2 9/16	3 5/16	1 9/16	1 11/16	1 5/8	1 11/16
0584 8660 048	0584 9360 048	10	145	16	232	1 7/8	2	5/16	2 7/16	2 3/4	3 9/16	1 15/16	2	1 7/8	2
0584 8660 060	0584 9360 060	10	145	16	232	2 3/8	2.5	5/16	3 1/16	3 5/16	4 1/8	2 7/16	2 1/2	2 5/16	2 3/8
0584 8660 076	0584 9360 076	10	145	16	232	3	3	1	3 7/8	3 15/16	4 3/4	2 15/16	3	2 15/16	3
0584 8660 088	0584 9360 088	10	145	16	232	3 1/2	3 1/2	1	3 7/8	4 5/16	5 1/8	3 1/2	3 9/16	3 7/16	3 9/16
0584 8660 114	0584 9360 114	10	145	16	232	4 1/2	4 1/2	1	3 7/8	5 5/16	6 1/8	4 7/16	4 9/16	4 7/16	4 9/16
0584 8660 139	0584 9360 139	10	145	16	232	5 1/2	5 1/2	1 3/8	4 1/2	6 5/16	7 1/16	5 1/2	5 9/16	5 7/16	5 5/8
0584 8660 168	0584 9360 168	10	145	16	232	6 5/8	6 5/8	1 3/8	4 1/2	7 1/2	8.3	6 9/16	6 11/16	6 9/16	6 11/16

COMBI-GRIP E (W5) METRIC		PN <sup>1</sup>		WP <sup>2</sup>		O.D. Metal Side	O.D. Plastic Side	c (max)	Dimensions			Clamping Range			
NBR	EPDM	[bar]	psi	[bar]	psi	mm	mm	mm	a	d	H	Plastic (mm)		Metal (mm)	
									mm	mm	mm	min	max	min	max
0584 8660 042	0584 9360 042	10	145	16	232	42	40	8	62	65	85	39	40	41	43
0584 8660 048	0584 9360 048	10	145	16	232	48	50	8	62	70	90	49	50	47	50
0584 8660 060	0584 9360 060	10	145	16	232	60	63	17	78	85	105	62	63	59	61
0584 8660 076	0584 9360 076	10	145	16	232	76	75	25	98	100	120	74	75	75	77
0584 8660 088	0584 9360 088	10	145	16	232	88	90	25	98	110	130	89	91	87	90
0584 8660 114	0584 9360 114	10	145	16	232	114	114	25	98	135	155	113	115	113	115
0584 8660 139	0584 9360 139	10	145	16	232	139	140	35	115	160	180	139	141	138	143
0584 8660 168	0584 9360 168	10	145	16	232	168	168	35	115	190	210	166	170	166	170

Note: Call for a complete list of sizes and materials.

<sup>1</sup> Nominal Pressure is the maximum admissible working pressure in shipbuilding, based on a safety factor of ≥ 4.

<sup>2</sup> Working Pressure is the maximum admissible working pressure in industrial applications, as per NORMA specification.

Available in these materials:

W1	W2	W3	W4	W5
				X



\*When joining plastic pipes made from PE and PP, a support sleeve must be used. If the pipes to be joined are made from soft thermoplastic material (e.g., PE) the use of a support sleeve is mandatory. The support sleeve is inserted into the pipe end within the area to be joined and thus protects the pipe from being deformed.

# FGR PLAST-GRIP E

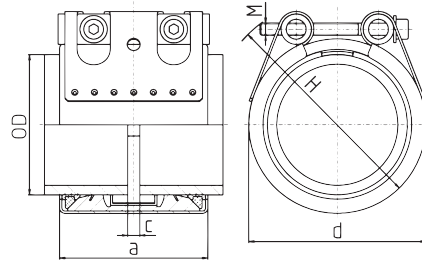


Axial restraint coupling for connecting plastic pipes without damage.

Protective Anchoring Ring With Flat Teeth | Double-Lip Sealing System | Hollow Trunnions | Diameter Range 39mm – 170mm

## PLAST-GRIP E (W5)

316 Stainless Steel Inner Ring (EPDM/NBR)  
Heavy-Duty Lock Bars  
Two Rows of Flat Teeth (For Plastic)



PLAST-GRIP E (W5)		PN <sup>1</sup>		WP <sup>2</sup>		O.D.	c (max)	Dimensions			Clamping Range			
		[bar]	psi	[bar]	psi			mm	mm	mm	mm	inches		mm
NBR	EPDM							a	d	H	min	max	min	max
0581 8660 040	0581 9360 040	10	145	16	232	40	8	62	60	80	1 17/32	1 9/16	39	40
0581 8660 042	0581 9360 042	10	145	16	232	42	8	62	65	85	1 5/8	1 11/16	41	43
0581 8660 044	0581 9360 044	10	145	16	232	44	8	62	70	90	1 21/32	1 13/16	42	46
0581 8660 048	0581 9360 048	10	145	16	232	48	8	62	70	90	1 7/8	1 15/16	47	49
0581 8660 050	0581 9360 050	10	145	16	232	50	8	62	70	90	1 15/16	1 31/32	49	50
0581 8660 060	0581 9360 060	10	145	16	232	60	17	78	85	105	2 5/16	2 3/8	59	61
0581 8660 063	0581 9360 063	10	145	16	232	63	17	78	85	105	2 7/16	2 1/2	62	63
0581 8660 075	0581 9360 075	10	145	16	232	75	25	98	100	120	2 29/32	3	74	76
0581 8660 076	0581 9360 076	10	145	16	232	76	25	98	100	120	2 15/16	3 1/32	75	77
0581 8660 088	0581 9360 088	10	145	16	232	88	25	98	110	130	3 7/16	3 9/16	88	90
0581 8660 090	0581 9360 090	10	145	16	232	90	25	98	110	130	3 1/2	3 19/32	89	91
0581 8660 101	0581 9360 101	10	145	16	232	101	25	98	125	145	3 15/16	4	100	102
0581 8660 104	0581 9360 104	10	145	16	232	104	25	98	125	145	4	4 5/32	102	106
0581 8660 108	0581 9360 108	10	145	16	232	108	25	98	130	150	4 1/4	4 3/8	108	111
0581 8660 110	0581 9360 110	10	145	16	232	110	25	98	130	150	4 5/32	4 3/8	109	111
0581 8660 114	0581 9360 114	10	145	16	232	114	25	98	135	155	4 7/16	4 9/16	113	115
0581 8660 125	0581 9360 125	10	145	16	232	125	35	115	140	160	4 7/8	5	124	126
0581 8660 129	0581 9360 129	10	145	16	232	129	35	115	140	160	5	5 5/32	127	131
0581 8660 133	0581 9360 133	10	145	16	232	133	35	115	150	170	5 5/32	5 9/32	131	134
0581 8660 140	0581 9360 140	10	145	16	232	140	35	115	160	180	5 1/2	5 9/16	139	141
0581 8660 154	0581 9360 154	10	145	16	232	154	35	115	170	190	6	6 1/8	152	156
0581 8660 159	0581 9360 159	10	145	16	232	159	35	115	180	200	6 3/16	6 9/32	157	160
0581 8660 160	0581 9360 160	10	145	16	232	160	35	115	180	200	6 1/4	6 3/8	159	162
0581 8660 168	0581 9360 168	10	145	16	232	168	35	115	190	200	6 9/16	6 11/16	166	170

Note: Call for a complete list of sizes and materials.

<sup>1</sup> Nominal Pressure is the maximum admissible working pressure in shipbuilding, based on a safety factor of ≥ 4.

<sup>2</sup> Working Pressure is the maximum admissible working pressure in industrial applications, as per NORMA specification.

Available in these materials:

W1	W2	W3	W4	W5
	X		X	X

# FGR GRIP E-FP



Pipe coupling with integral flame protection for marine and sprinkler applications.

Flame Resistant | Standard Strip Insert | For Hot/Cold Marine Applications | Double-Lip Sealing System | Diameter Range 33mm – 422mm

**GRIP E-FP (W5)**

- 316 Stainless Steel Inner Ring (EPDM/NBR)
- Conically Stamped Anchoring Ring
- Flame Protective Housing



GRIP E-FP (W5)		PN <sup>1</sup>		WP <sup>2</sup>		O.D.	c (max)	Dimensions			Clamping Range			
NBR	EPDM	[bar]	psi	[bar]	psi			mm	mm	a	d	H	inches	
								mm	mm	mm	min	max	min	max
0579 8670 033	0579 9370 033	16	232	60	870	34	3	67	65	115	1 5/16	1 3/8	33	34
0579 8670 042	0579 9370 042	16	232	50	725	42	8	75	75	125	1 5/8	1 11/16	41	43
0579 8670 044	0579 9370 044	16	232	50	725	45	8	75	75	125	1 11/16	1 3/4	44	45
0579 8670 048	0579 9370 048	16	232	50	725	48	8	75	80	130	1 7/8	2	47	50
0579 8670 060	0579 9370 060	16	232	40	580	60	17	90	95	145	2 5/16	2 3/8	59	61
0579 8670 073	0579 9370 073	16	232	40	580	73	17	90	95	145	2 13/16	2 7/8	72	73
0579 8670 076	0579 9370 076	16	232	35	508	76	25	110	105	155	2 7/8	3	75	77
0579 8670 088	0579 9370 088	16	232	35	508	89	25	110	115	165	3 7/16	3 9/16	87	89
0579 8670 114	0579 9370 114	16	232	35	508	114	25	110	145	195	4 7/16	4 1/2	113	115
0579 8670 133	0579 9370 133	16	232	32	464	133	35	125	170	220	5 5/32	5 1/4	131	134
0579 8670 141	0579 9370 141	16	232	32	464	142	35	125	180	230	5 1/2	5 5/8	139	142
0579 8670 154	0579 9370 154	16	232	32	464	154	35	125	190	240	6	6 1/8	152	156
0579 8670 168	0579 9370 168	16	232	32	464	168	35	125	205	255	6 5/8	6 3/4	166	170
0579 8670 193	0579 9370 193	10	145	20	290	193	35	125	235	285	7 9/16	7 23/32	192	196
0579 8670 219	0579 9370 219	10	145	20	290	219	35	125	260	310	8 1/2	8 11/16	216	221
0579 8670 254	0579 9370 254	5.5	79	14	203	254	35	155	285	335	9 27/32	10	250	256
0579 8670 273	0579 9370 273	5.5	79	13	188	273	35	155	315	365	10 5/8	10 13/16	270	275
0579 8670 323	0579 9370 323	3	44	9.5	138	323	35	155	365	415	12 19/32	12 7/8	320	327
0579 8670 355	0579 9370 355	2.7	39	8.5	123	355	35	155	400	450	13 27/32	14 1/8	352	359
0579 8670 419	0579 9370 419	2.5	36	6.5	94	419	35	155	460	510	4 11/32	16 19/32	415	422

Note: Call for a complete list of sizes and materials.

<sup>1</sup> Nominal Pressure is the maximum admissible working pressure in shipbuilding, based on a safety factor of ≥ 4.

<sup>2</sup> Working Pressure is the maximum admissible working pressure in industrial applications, as per NORMA specification.

Available in these materials:

W1	W2	W3	W4	W5
				X

# FGR RFP



Retrofittable flame-protective housing for use with Flex, Grip and REP E Couplings.

Flame-Resistant | Lightweight | For Hot/Cold Marine Applications | No Tools Necessary | Diameter Range 27mm – 273mm

**RFP 316 SS (W5)**  
 Flame-Resistant Fibre Mat  
 All 316 Stainless Steel



RFP 316 SS (W5)	Weight of Housing	Dimensions			Nominal Diameter	
		a	d	H*	inches	mm
	kg	mm	mm	mm		
0573 0000 026	0.09	69	60	110	1 1/16	27
0573 0000 028	0.09	69	60	110	1 1/8	28
0573 0000 030	0.10	69	60	110	1 3/16	30
0573 0000 033	0.10	69	65	115	1 5/16	34
0573 0000 038	0.11	75	70	120	1 1/2	38
0573 0000 042	0.12	75	75	125	1 5/8	42
0573 0000 044	0.12	75	75	125	1 3/4	45
0573 0000 048	0.13	75	80	130	1 7/8	48
0573 0000 054	0.14	90	90	135	2 1/8	54
0573 0000 057	0.16	90	90	140	2 1/4	57
0573 0000 060	0.16	90	95	145	2 3/8	60
0573 0000 076	0.24	110	110	160	3	76
0573 0000 088	0.26	110	120	170	3 1/2	89
0573 0000 101	0.28	110	135	185	4	102
0573 0000 104	0.29	110	135	185	4 1/16	104
0573 0000 108	0.30	110	140	190	4 1/4	108
0573 0000 114	0.31	110	145	195	4 1/2	114
0573 0000 133	0.41	125	170	220	5 1/4	133
0573 0000 139	0.43	125	175	225	5 1/2	140
0573 0000 154	0.45	125	190	240	6 1/16	154
0573 0000 159	0.49	125	195	245	6 1/4	159
0573 0000 168	0.50	125	205	255	6 5/8	168
0573 0000 219	0.73	155	260	310	8 5/8	219
0573 0000 273	0.87	155	315	365	10 3/4	273

Note: Call for a complete list of part numbers and materials.

\*Dimensions of the housing are given as assembled on a NORMACONnect Grip/Grip E/Flex/Flex E pipe coupling.

Further sizes available on request.

Available in these materials:

W1	W2	W3	W4	W5
				X



Double-locked safeguards prevent dismantling

## FGR Approvals

SHIPBUILDING		FLEX / FLEX E / RFP		GRIP / GRIP E / GRIP E-FP / RFP		COMBI-GRIP / COMBI-GRIP E	PLAST-GRIP / PLAST-GRIP E	REP E
		26.9 - 168.3MM	>180MM	26.9 - 168.3MM	>180MM			
ABS		•	•	•	•	•	•	
Bureau Veritas		•	•	•	•	•	•	
DNV		•	•	•	•			
GL		•	•	•	•			
LRS		• <sup>1</sup>	• <sup>1</sup>	• <sup>1</sup>	• <sup>1</sup>	•	•	
Class NK		•	•	•	•	•	•	
RINA		•	•	•	•			
RMRS		•	•	•	•	•	•	
PRS		• <sup>1</sup>	• <sup>1</sup>	• <sup>1</sup>	• <sup>1</sup>			
KRS		•	•	•	•	•	•	
WATER SUPPLY & TREATMENT		FLEX / FLEX E / RFP		GRIP / GRIP E / GRIP E-FP / RFP		COMBI-GRIP / COMBI-GRIP E	PLAST-GRIP / PLAST-GRIP E	REP E
		26.9 - 168.3MM	>180MM	26.9 - 168.3MM	>180MM			
KTW		•		•		•	•	•
DVGW							• <sup>2</sup>	
SVGW							• <sup>2</sup>	
NSF		EPDM		EPDM		EPDM	EPDM	
DGS		EPDM	EPDM	EPDM	EPDM	EPDM	EPDM	EPDM
GAS		FLEX / FLEX E / RFP		GRIP / GRIP E / GRIP E-FP / RFP		COMBI-GRIP / COMBI-GRIP E	PLAST-GRIP / PLAST-GRIP E	REP E
		26.9 - 168.3MM	>180MM	26.9 - 168.3MM	>180MM			
DVGW / GWI				•			•	
SVGW							•	
SPECIAL APPROVALS		FLEX / FLEX E / RFP		GRIP / GRIP E / GRIP E-FP / RFP		COMBI-GRIP / COMBI-GRIP E	PLAST-GRIP / PLAST-GRIP E	REP E
		26.9 - 168.3MM	>180MM	26.9 - 168.3MM	>180MM			
VdS				• <sup>4</sup>				
DIBT / TÜV south. Germany				•				
BWB				•	• <sup>3</sup>			
FDA		•		•		•	•	

<sup>1</sup> No Approvals for RFP

<sup>2</sup> From 40.0mm up to 160mm

<sup>3</sup> German approval for the German marine

<sup>4</sup> For the following sizes: 33.7 - 42.2 - 48.3 - 60.3 - 76.1 - 88.9 - 114.3 - 139.7

## Quick Connectors

Innovative, secure, and “quick fit” – The NORMAQUICK® Connectors range of plug-in connectors made of synthetic material are suitable for cooling water, oil, air or fuel-carrying lines. NORMAQUICK® Connectors offer a state-of-the-art means of connecting, reducing permeation rates, and helping reduce the system’s total weight.



### NORMAQUICK® Twist II

- For cooling water systems
- Designed to provide leak-proof connections
- Robust and clear locking features with a click function to ensure a correct lock
- Easy operation for disassembly
- Temperature resistance of up to 180°
- Material: Polyamide 6.6 with 30% to 50% glass fiber, EPDM O-Rings
- 0° profiles
- Application-specific sizes



*Note: Available with and without assembly indicator*

### NORMAQUICK® S (for SAE connections)

- For fluid and fuel line applications
- For both line-to-line and line-to-device connections
- Designed for SAE J2044 standard spigots
- Internal spring retainer mechanism for tight-locking seal
- Available with hose barb end for use with aftermarket hoses and clamps
- Material: Injection Molded Thermoplastics, FKM and FVMQ O-Rings
- 0°, 45°, and 90° standard profiles
- Outside Spigot Diameters: 6.35mm – 16mm (¼" – 5⁄8")



Straight Tri-Barb

90° Profile

### Series SAE-Style

- For glycol and automotive coolant applications
- For both line-to-line and line-to-device connections
- Designed for SAE J2044 standard spigots
- Internal retainer mechanism for tight-locking seal
- Available with hose barb stem for use with aftermarket hoses and clamps
- Material: Injection Molded Thermoplastics, EPDM O-Rings
- 0°, 45° and 90° profiles
- Outside Spigot Diameters: 16mm – 19mm (5⁄8" – 3⁄4")





### NORMAQUICK® V2

- For handling air and blow-by gas and fuel venting
- For both line-to-line and line-to-device connections
- Can be used with both plastic and metal spigots
- Available with hose barb end for use with aftermarket hoses and clamps
- Material: Injection Molded Thermoplastics, NBR O-Rings (air), FKM and FVMQ O-Rings (fuel and other)
- 0°, and 90° standard profiles/over 200 custom profiles
- Inside Spigot Diameters: 4mm – 33mm (<sup>5</sup>/<sub>32</sub>" – 1 <sup>5</sup>/<sub>16</sub>"



### NORMAQUICK® PS3 (for VDA connections)

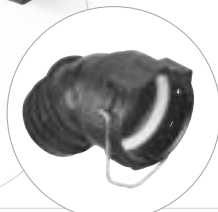
- PS3 "Push & Seal" plastic quick connectors for charged air, cooling water, and heating hoses
- Designed for VDA standard spigot
- Available with hose barb end for use with aftermarket hoses and clamps
- Material: Injection Molded Thermoplastics, EPDM O-Rings
- 0°, 45°, and 90° standard profiles
- Inside Diameters: 8mm – 50mm (<sup>1</sup>/<sub>4</sub>" – 2")



Straight



90° Profile



45° Tri-Barb

### Series C-Style (for VDA connections)

- Plastic quick connectors for coolant, glycol, and water applications.
- Designed for VDA standard spigot
- Positive retainer ring mechanism for tight locking seal
- Available with hose barb stem for use with aftermarket hoses and clamps
- Material: Injection Molded Thermoplastics, EPDM O-Rings
- 0°, 45°, and 90° standard profiles
- Inside Diameters: 12mm – 50mm (<sup>15</sup>/<sub>32</sub>" – 2")



## From Anderstorp Sweden

Founded in Sweden in 1896, ABA originally invented a new type of hose clamp to improve the effectiveness of fire-fighting operations at the time. Today, ABA is one of the world's most experienced, most-respected manufacturers of hose clamps. Industry leading SafeSeal Technology™ and a unique one-piece housing ensure ABA clamps reliably develop a 360° sealing force around the hose when tightened around the joint. Extensive in-house testing ensures that ABA products continue to set the global standard to meet the needs of a wide range of industrial and marine applications.





commercial



passenger



infrastructure



industrial

# Hose Clamps

ABA Hose Clamps feature high-torque no-joint, one-piece housings and non-perforated bands with rolled edges for the ultimate in hose protection. In both our Original and Mini versions, ABA hose clamps offer material choices in bands, housings and diameter ranges to meet the needs of virtually any application. ABA clamps are available in marine-grade corrosion-resistant materials and in a standard aluzinc finish with the iconic blue housing that has helped them stand out for more than a century.





Profiled band tongue for added strength

Mini

Pre-galvanized (W1) stainless steel 9mm band (S10)



9mm 304 stainless steel (W4) band



Mini W4 available with phillips hex-head screw (S40)

12mm band available in aluzinc plated pre-galvanized steel (W1) or 304 stainless steel (W4)



Safe™



Jointless housing features a cut-back base; better for smaller dimension hoses

9mm band is available in S20 (W1) or S50 (W5) stainless steel

Nova

Protective liner made of 300-Series stainless steel for added protection on soft hoses

## Product Portfolio Quick Reference



### ABA Mini

- | 9mm Band Width
- | Diameter Range 6.5mm – 18mm
- | S10 (W1) & S40 (W4)
- | SAE Standard J1508 FE Type

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### ABA Original S50 & SMO

- | 12mm Band Width
- | Diameter Range 15mm – 308mm
- | Acid-Resistant Steel
- | SAE Standard J1508 FE Type

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### ABA Nova

- | 9mm Band Width
- | Diameter Range 8mm – 75mm
- | S20 (W2), S40 (W4), S50 (W5)
- | SAE Standard J1508 FE Type

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### ABA Safe™

- | 12mm Band Width
- | Diameter Range 32mm – 112mm
- | S20 (W2), S40 (W4)
- | SAE Standard J1508 FE Type

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### ABA Original S20–S40

- | 12mm Band Width
- | Diameter Range 15mm – 307mm
- | S20 (W2), S40 (W4)
- | SAE Standard J1508 FE Type

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### Merchandisers & Tools

- | Two Assortment Options
- | Wall Hanging Merchandisers
- | 7mm Screw Head Drivers
- | 25 or 60cm Sturdy/Flexible Drivers

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# ABA SafeSeal Technology™

## Reliable

ABA clamps are designed to have a clamping force reserve and not break. They will reliably continue to develop a sealing force around the hose when tightened (see blue line Fig. 1) 360° around the joint.



## One-piece pressed housing

The worm-gear housing is pressed from custom-made piping to an interior tolerance of a few hundredths of a millimeter. ABA worm-gear housings withstand high breaking torques due to the design, in comparison with riveted, welded, or folded housing designs.

## High clamping force

A good clamp should be able to develop a high level of tightening force around the hose or pipe. The even tightening force secures a tight seal. Through the installation torque you decide on the level of force to apply.

## Gentle on the hose

The smooth underside and rolled-up band edges are gentle on the hose and reduce the risk of leakages.

A choice of hose clamp is a choice of clamping force. Bear in mind that settings in the rubber will, in the long term, reduce the clamping force. Is the clamping force you have selected strong enough?

Be sure – choose ABA Original clamps.

## Aluzinc

Our standard bands are made from an aluzinc material, which provides roughly three times better corrosion protection than traditional galvanization. An aluzinc band, in conjunction with our product design, provides the optimum clamping force.

## ABA – for a better environment and quality

ABA clamps are produced in factories certified to ISO 14001 and our products can be reused many times thanks to the high and constant quality continuously surveyed in our ISO 9000:2000, as well as ISO TS 16949 systems.

## ABA Mechanical efficiency and strength

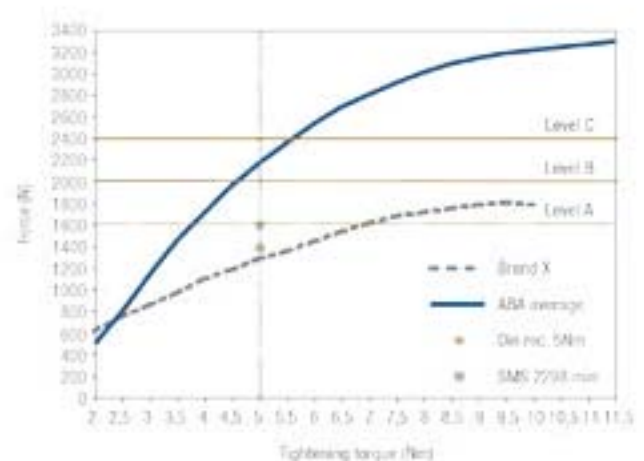


Fig 1. Mechanical efficiency of ABA clamps, i.e., the relation of tightening torque and sealing force. (2-sector “mechanical efficiency” test. Force: Newton, Speed: 200 rpm.)

# ABA Mini



A nut and bolt hose clamp with rolled band edges that is ideally suited for small, thin-walled hoses.

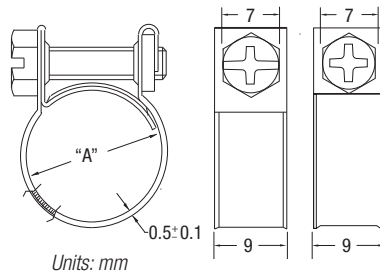
Socket or Screwdriver Adjustable | 9mm Band Width | SAE Standard J1508 Type FE | Diameter Range 6.5mm – 18mm

### MINI S10 (W1)

Zinc-Plated Combi-Slot Hex Head Screw  
9mm Band Width  
Clamp Secured Nut

### MINI S40 (W4)

304 Stainless Steel Phillips Hex Head Screw  
9mm Band Width  
Clamp Secured Nut

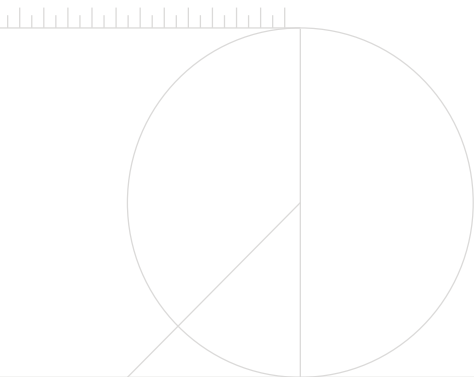


Units: mm



Band Width		MINI S10 (W1)		inches		mm (A)	
inches	mm	Brand PN	Global PN	min	max	min	max
3/8	9	21007	0810 6101 007	1/4	5/16	6.5	7.5
3/8	9	21008	0810 6101 008	9/32	11/32	7	8.5
3/8	9	21009	0810 6101 009	5/16	3/8	8	9.5
3/8	9	21010	0810 6101 010	3/8	13/32	9	10.5
3/8	9	21011	0810 6101 011	3/8	7/16	9.5	11.5
3/8	9	21012	0810 6101 012	13/32	1/2	10.5	12.5
3/8	9	21013	0810 6101 013	7/16	17/32	11.5	13.5
3/8	9	21014	0810 6101 014	1/2	9/16	12.5	14.5
3/8	9	21015	0810 6101 015	17/32	5/8	13.5	15.5
3/8	9	21016	0810 6101 016	9/16	21/32	14	16.5
3/8	9	21017	0810 6101 017	19/32	11/16	15	17.5

MINI S40 (W4)		inches		mm (A)	
Brand PN	Global PN	min	max	min	max
22008	0810 3002 008	5/16	11/32	7.5	8.5
22009	0810 3002 009	11/32	3/8	8.5	9.5
22010	0810 3002 010	3/8	7/16	9.5	11
22011	0810 3002 011	13/32	15/32	10.5	12
22012	0810 3002 012	7/16	1/2	11.5	13
22013	0810 3002 013	1/2	21/32	12.5	14
22014	0810 3002 014	17/32	19/32	13.5	15
22015	0810 3002 015	9/16	5/8	14.5	16
22016	0810 3002 016	19/32	21/32	15	17
22017	0810 3002 017	.63	23/32	16	18





# ABA Nova



A non-perforated worm-drive hose clamp with a rolled-edge band that is an ideal choice for smaller dimension hoses.

**Embossed 9mm Band with Rolled Edges** | **Innovative Jointless Housing** | **SAE Standard J1508 Type FE** | **Diameter Range 8mm – 75mm**

### NOVA S20 (W2)

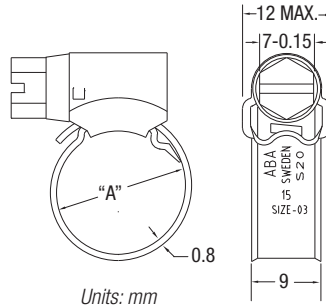
All Pre-Galvanized Steel  
Slotted Hex-Head Screw  
9mm Band Width  
Diameter Range 8mm - 75mm

### NOVA S40 (W4)

All 304 Stainless Steel  
Slotted Hex-Head Screw  
9mm Band Width  
Diameter Range 8mm- 38mm

### NOVA S50 (W5)

All 316 Stainless Steel  
Slotted Hex-Head Screw  
9mm Band Width  
Diameter Range 8mm-20mm



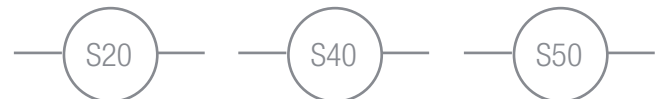
Safe S40

Safe S20



SAE*	Band Width		NOVA S20 (W2)		NOVA S40 (W4)	NOVA S50 (W5)		inches		mm (A)	
	inches	mm	Brand PN	Global PN	Global PN	Brand PN	Global PN	min	max	min	max
3	3/8	9	19015	0811 6108 011	0811 6110 011	13014A	0811 6112 011	5/16	9/16	8	14
4	3/8	9	19017A	0811 6108 014	0811 6110 014	13017	0811 6112 014	7/16	11/16	11	17
6	3/8	9	19022A	0811 6108 017	0811 6110 017	13020	0811 6112 017	1/2	13/16	13	20
8	3/8	9	19025	0811 6108 020	0811 6110 020	-	-	9/16	15/16	15	24
10	3/8	9	19028	0811 6108 024	0811 6110 024	-	-	3/4	1 1/8	19	28
12	3/8	9	19032	0811 6108 027	0811 6110 027	-	-	7/8	1 1/4	22	32
16	3/8	9	19040	0811 6108 032	0811 6110 032	-	-	1	1 1/2	26	38
20	3/8	9	19045	0811 6108 038	-	-	-	1 1/4	1 3/4	32	44
24	3/8	9	19050	0811 6108 044	-	-	-	1 1/2	2	38	50
28	3/8	9	19056	0811 6108 050	-	-	-	1 3/4	2 3/16	44	56
32	3/8	9	19065	0811 6108 058	-	-	-	2	2 9/16	50	65
40	3/8	9	19075	0811 6108 067	-	-	-	2 1/4	2 15/16	58	75

\*SAE sizes are approximate



# ABA Original

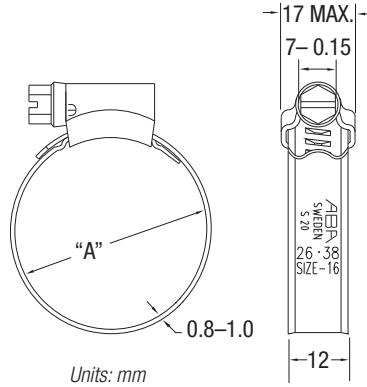


An embossed worm-drive hose clamp with a one-piece housing, and an embossed band with rolled edges.

Embossed Band with Rolled Edges | Innovative Jointless Housing | SAE Standard J1508 Type FE | Diameter Range 15mm – 307mm

**ORIGINAL S20 (W2)**  
Slotted Hex-Head Screw  
12mm Band Width  
Iconic Blue Housing

**ORIGINAL S40 (W4)**  
Slotted Hex-Head Screw  
12mm Band Width  
Stainless Steel Housing

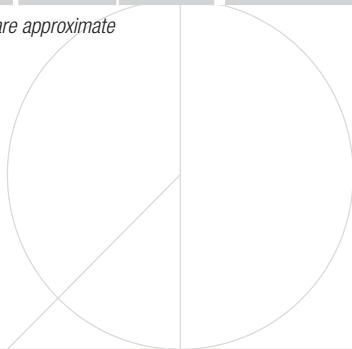


Units: mm



SAE*	Band Width		ORIGINAL S20		ORIGINAL S40		inches		mm (A)	
	inches	mm	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
8	1/2	12	11024	0813 4001 020	12024	0813 4003 020	9/16	15/16	15	24
10	1/2	12	11028	0813 4001 024	12028	0813 4003 024	3/4	1 1/8	19	28
12	1/2	12	11032	0813 4001 027	12032	0813 4003 027	7/8	1 1/4	22	32
16	1/2	12	11038	0813 4001 032	12038	0813 4003 032	1	1 1/2	26	38
20	1/2	12	11044	0813 4001 038	12044	0813 4003 038	1 1/4	1 3/4	32	44
24	1/2	12	11050	0813 4001 044	12050	0813 4003 044	1 1/2	2	38	50
28	1/2	12	11056	0813 4001 050	12056	0813 4003 050	1 3/4	2 3/16	44	56
32	1/2	12	11065	0813 4001 058	12065	0813 4003 058	2	2 9/16	50	65
40	1/2	12	11075	0813 4001 067	12075	0813 4003 067	2 1/4	2 15/16	58	75
44	1/2	12	11085	0813 4001 077	12085	0813 4003 077	2 11/16	3 3/8	68	85
52	1/2	12	11095	0813 4001 086	12095	0813 4003 086	3	3 3/4	77	95
64	1/2	12	11112	0813 4001 100	12112	0813 4003 100	3 7/16	4 7/16	87	112
80	1/2	12	11138	0813 4001 121	12138	0813 4003 121	4 1/16	5 7/16	104	138
96	1/2	12	11165	0813 4001 148	12165	0813 4003 148	5 1/8	6 1/2	130	165
104	1/2	12	11180	0813 4001 165	12180	0813 4003 165	5 15/16	7 1/16	150	180
122	1/2	12	11205	0813 4001 190	12205	0813 4003 190	6 7/8	8 1/16	175	205
138	1/2	12	11231	0813 4001 216	12231	0813 4003 216	7 7/8	9 1/16	200	231
154	1/2	12	11256	0813 4001 241	12256	0813 4003 241	8 7/8	10 1/16	226	256
170	1/2	12	11282	0813 4001 267	12282	0813 4003 267	9 7/8	11 1/8	251	282
186	1/2	12	11307	0813 4001 292	12307	0813 4003 292	10 15/16	12 1/16	277	307

\*SAE sizes are approximate



# ABA Original S50 & SMO

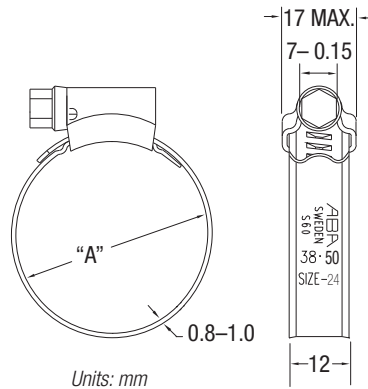


An embossed worm-drive hose clamp with a one-piece housing, and an embossed band with rolled edges.

Embossed Band with Rolled Edges | Acid-Resistant Steel | SAE Standard J1508 Type FE | Diameter Range 15mm – 308mm

**ORIGINAL S50 (W5)**  
Slotted Hex-Head Screw  
12mm Band Width  
All Acid-Resistant Steel

**ORIGINAL SMO**  
Hex Head Screw  
12mm SMO12 Band  
All Acid Resistant Steel



Units: mm



SAE*	Band Width		ORIGINAL S50 <sup>1</sup>	inches		mm (A)	
	inches	mm		min	max	min	max
8	1/2	12	0813 4037 020	9/16	15/16	15	24
10	1/2	12	0813 4037 024	3/4	1 1/8	19	28
12	1/2	12	0813 4037 027	7/8	1 1/4	22	32
16	1/2	12	0813 4037 032	1	1 1/2	26	38
20	1/2	12	0813 4037 038	1 1/4	1 3/4	32	44
24	1/2	12	0813 4037 044	1 1/2	2	38	50
28	1/2	12	0813 4037 045	1 1/4	2 1/4	32	57
32	1/2	12	0813 4037 051	1 1/2	2 1/2	38	64
36	1/2	12	0813 4037 057	1 3/4	2 3/4	44	70
40	1/2	12	0813 4037 064	2	2 15/16	51	76
42	1/2	12	0813 4037 067	2 1/8	3 1/8	54	80
44	1/2	12	0813 4037 070	2 1/4	1 1/4	57	83
48	1/2	12	0813 4037 077	2 1/2	3 1/2	64	89
52	1/2	12	0813 4037 083	2 3/4	3 3/4	70	95
56	1/2	12	0813 4037 089	3	4	76	102
60	1/2	12	0813 4037 096	1 1/4	4 1/4	83	108
64	1/2	12	0813 4037 102	3 1/2	4 1/2	89	114
72	1/2	12	0813 4037 108	4 1/2	5	89	127
80	1/2	12	0813 4037 121	4	5 1/2	102	140
88	1/2	12	0813 4037 133	4 1/2	6	114	152
96	1/2	12	0813 4037 146	5	6 1/2	127	165
104	1/2	12	0813 4037 159	5 1/2	7	140	178
112	1/2	12	0813 4037 172	6	7 1/2	152	191
122	1/2	12	0813 4037 184	6 1/2	8	165	203
128	1/2	12	0813 4037 197	7	8 1/2	178	216
138	1/2	12	0813 4037 213	7 5/8	9 1/8	194	232
154	1/2	12	0813 4037 238	8 5/8	10 1/8	219	257
170	1/2	12	0813 4037 264	9 5/8	11 1/8	244	283
186	1/2	12	0813 4037 289	10 5/8	12 1/8	270	308

SAE*	Band Width		ORIGINAL SMO	inches		mm (A)	
	inches	mm		min	max	min	max
8	1/2	12	0813 0043 020	9/16	15/16	15	24
10	1/2	12	0813 0043 024	3/4	1 1/8	19	28
12	1/2	12	0813 0043 027	7/8	1 1/4	22	32
16	1/2	12	0813 0043 032	1	1 1/2	26	38
20	1/2	12	0813 0043 038	1 1/4	1 3/4	32	44
24	1/2	12	0813 0043 044	1 1/2	2	38	50
28	1/2	12	0813 0043 050	1 3/4	2 3/16	44	56
32	1/2	12	0813 0043 058	2	2 9/16	50	65
40	1/2	12	0813 0043 067	2 1/4	2 15/16	58	75
44	1/2	12	0813 0043 077	2 11/16	3 3/8	68	85
52	1/2	12	0813 0043 086	3	3 3/4	77	95
64	1/2	12	0813 0043 100	3 7/16	4 7/16	87	112
80	1/2	12	0813 0043 121	4 1/16	5 7/16	104	138
96	1/2	12	0813 0043 148	5 1/8	6 1/2	130	165
104	1/2	12	0813 0043 165	5 15/16	7 1/16	150	180
122	1/2	12	0813 0043 190	6 7/8	8 1/16	175	205
138	1/2	12	0813 0043 216	7 7/8	9 1/16	200	231
154	1/2	12	0813 0043 241	8 7/8	10 1/16	226	256
170	1/2	12	0813 0043 267	9 7/8	11 1/8	251	282
186	1/2	12	0813 0043 292	10 15/16	12 1/16	277	307

\*SAE sizes are approximate



<sup>1</sup> This series replaces the old ABA Ultra series: SS12017ABA-SS12308ABA

# ABA Safe™



A constant-tension worm-drive clamp that protects soft hoses against damage.

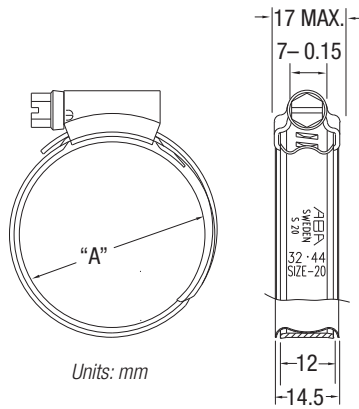
12mm Band Width | Concave Liner to Protect Soft Hoses | Innovative Jointless Housing | Diameter Range 32mm – 112mm

### SAFE S20 (W2)

- Slotted Hex-Head Screw
- 301 Stainless Steel Cold Rolled Liner
- 12mm Band Width
- Iconic Blue Housing

### SAFE S40 (W4)

- Slotted Hex-Head Screw
- 301 Stainless Steel Cold Rolled Liner
- 12mm Band Width
- SS Housing



Units: mm



SAE*	Band Width		SAFE S20 (W2)		SAFE S40 (W4)		inches		mm (A)	
	inches	mm	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
20	1/2	12	41045	0813 4008 038	42045	0813 4017 038	1 1/4	1 3/4	32	44
24	1/2	12	41050	0813 4008 044	42050	0813 4017 044	1 1/2	2	38	50
28	1/2	12	41056	0813 4008 050	42056	0813 4017 050	1 3/4	2 3/16	44	56
32	1/2	12	41065	0813 4008 058	42065	0813 4017 058	2	2 9/16	50	65
40	1/2	12	41075	0813 4008 067	42075	0813 4017 067	2 1/4	2 15/16	58	75
44	1/2	12	41085	0813 4008 077	42085	0813 4017 077	2 11/16	3 3/8	68	85
52	1/2	12	41095	0813 4008 086	42095	0813 4017 086	3	3 3/4	77	95
64	1/2	12	41112	0813 4008 100	42112	0813 4017 100	3 7/16	4 7/16	87	112



On tightening, the wave-shaped band causes maximum compression of the rubber at the two beads. The rubber is squeezed inwards towards the middle and outwards toward the edges. As the rubber between the two beads is only marginally affected it retains its elasticity and acts as an "O" ring.



On heating the band, the "O" ring flattens out. As it cools down it will assume its original shape and seal against the end fitting. The design of the Safe™ clamp makes it particularly suitable for soft hoses with relatively thick walls. Plastic piping that is relatively resistant to compression can often be sealed due to the increased pressure.

# ABA Merchandisers

Dispensers with most common clamp sizes.

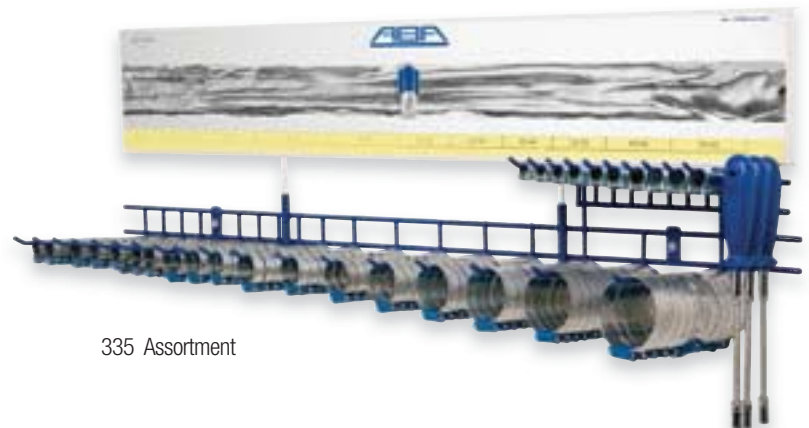
Two Assortment Options | Wall Hanging | Aluzinc

ASSORTMENT 244 -- PN 0819 0026 009	
Description	Quantity
Empty Rack 65 x 15 x 23.4 cm	1
NOVA 8-14	12
NOVA 11-17	12
NOVA 13-20	12
NOVA 15-24	24
NOVA 19-28	12
NOVA 22-32	12
NOVA 26-38	12
NOVA 32-44	12
NOVA 38-50	12
NOVA 44-56	12
NOVA 50-65	12
MINI 8	10
MINI 9	10
MINI 10	10
MINI 11	10
MINI 12	10
MINI 13	10
MINI 14	10
MINI 15	10
MINI 16	10
MINI 17	10
Flexidriver	1



244 Assortment

ASSORTMENT 335 -- PN 0819 0026 011	
Description	Quantity
Empty Rack 90 x 24 x 13.8 cm	1
NOVA 8-14	30
NOVA 11-17	30
NOVA 13-20	45
NOVA 15-24	34
NOVA 19-28	24
NOVA 22-32	12
NOVA 26-38	12
NOVA 32-44	12
NOVA 38-50	12
NOVA 44-56	12
NOVA 50-65	12
MINI 8	10
MINI 9	10
MINI 10	10
MINI 11	10
MINI 12	10
MINI 13	10
MINI 14	10
MINI 15	10
MINI 16	10
MINI 17	10
Flexidriver	1



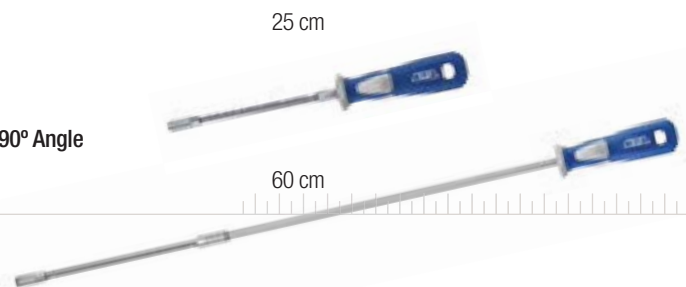
335 Assortment

## ABA Flexidriver Hand Tools

The flexible screwdriver makes installation easy and secure.

Two Sizes | 7mm Hexagonal Screw Head | Sturdy/Flexible Shaft Allows 90° Angle

ABA FLEXIDRIVER HAND TOOLS		QTY	Description
Brand PN	Global PN		
ABA DR BLUE	00000000900	1	Flexidriver 25 cm
ABA DR BLUE LG	00000000901	1	Flexidriver 60 cm





## Heavy-Duty Engineered Clamps

Since 1972, commercial and passenger vehicle manufacturers needing high-quality, heavy-duty clamping solutions for their most challenging automotive and industrial applications have relied on R.G.RAY. The result has been long-standing relationships with a diverse group of global manufacturers. R.G.RAY's application-driven approach to product design has solidified its market position among global competitors within the heavy-duty engineered clamps industry. R.G.RAY has a full range of Heavy-Duty T-Bolts, V-Band, and Strap Assemblies for a wide variety of specific applications.





commercial



passenger



infrastructure



industrial



## T-Bolt Hose Clamps

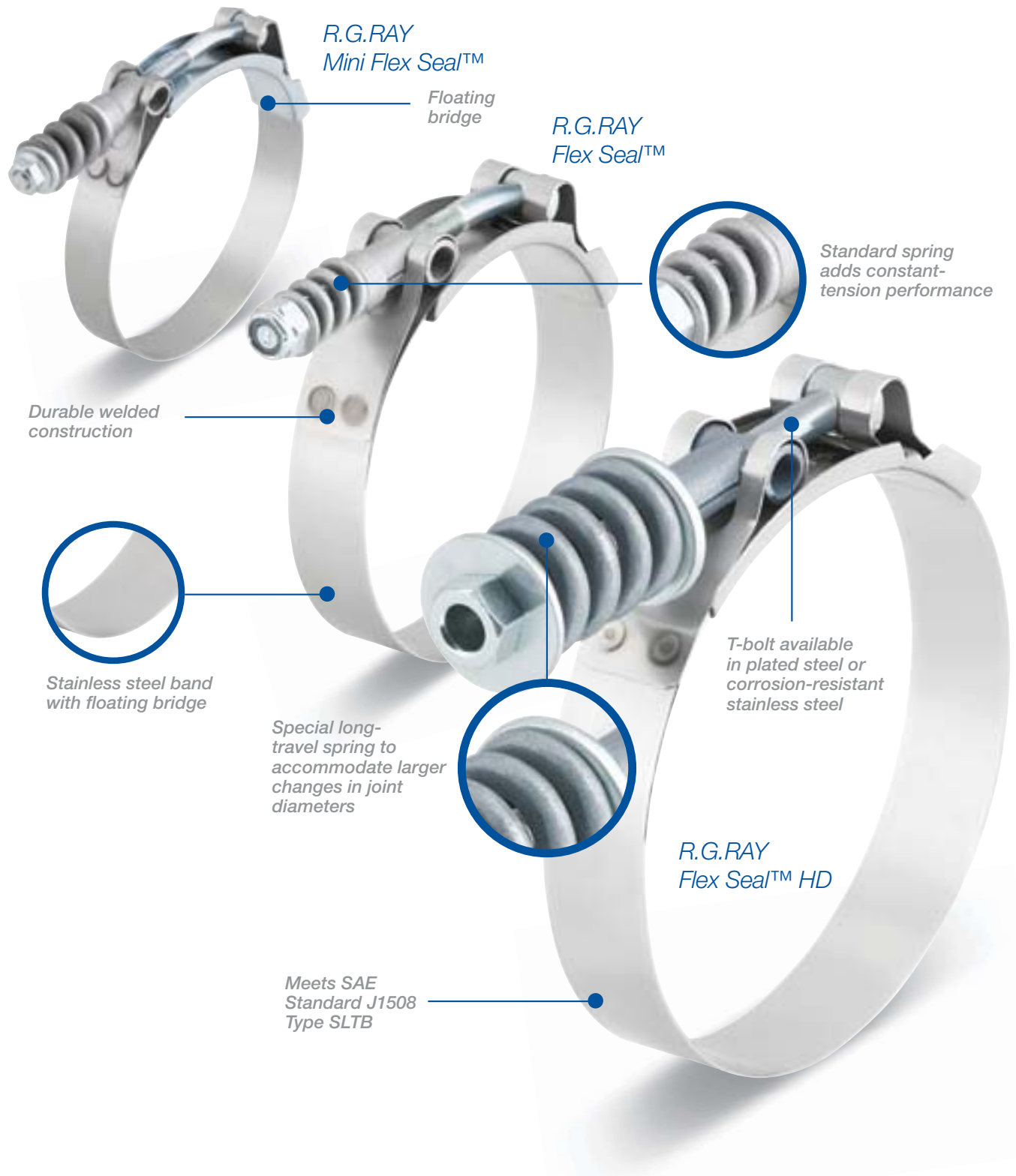
R.G.RAY T-Bolt Clamps are well suited to a wide variety of applications in the marine, automotive, industrial and diesel transportation industries. Our product lineup covers a variety of diameter ranges and we offer all-stainless, and stainless band/plated steel housing options to meet individual corrosion resistance and clamping strength needs. Constant-tension performance is available in our Flex Seal™ models.





## Constant-Tension Hose Clamps

R.G.RAY Flex Seal™ T-Bolt Clamps feature a durable, high-quality spring design in the fastener to provide constant tension in environments that undergo significant changes in temperature. All clamps feature stainless steel bands and a floating bridge design for 360° loading. Our constant-tension clamps are ideal for demanding marine, automotive and industrial applications.



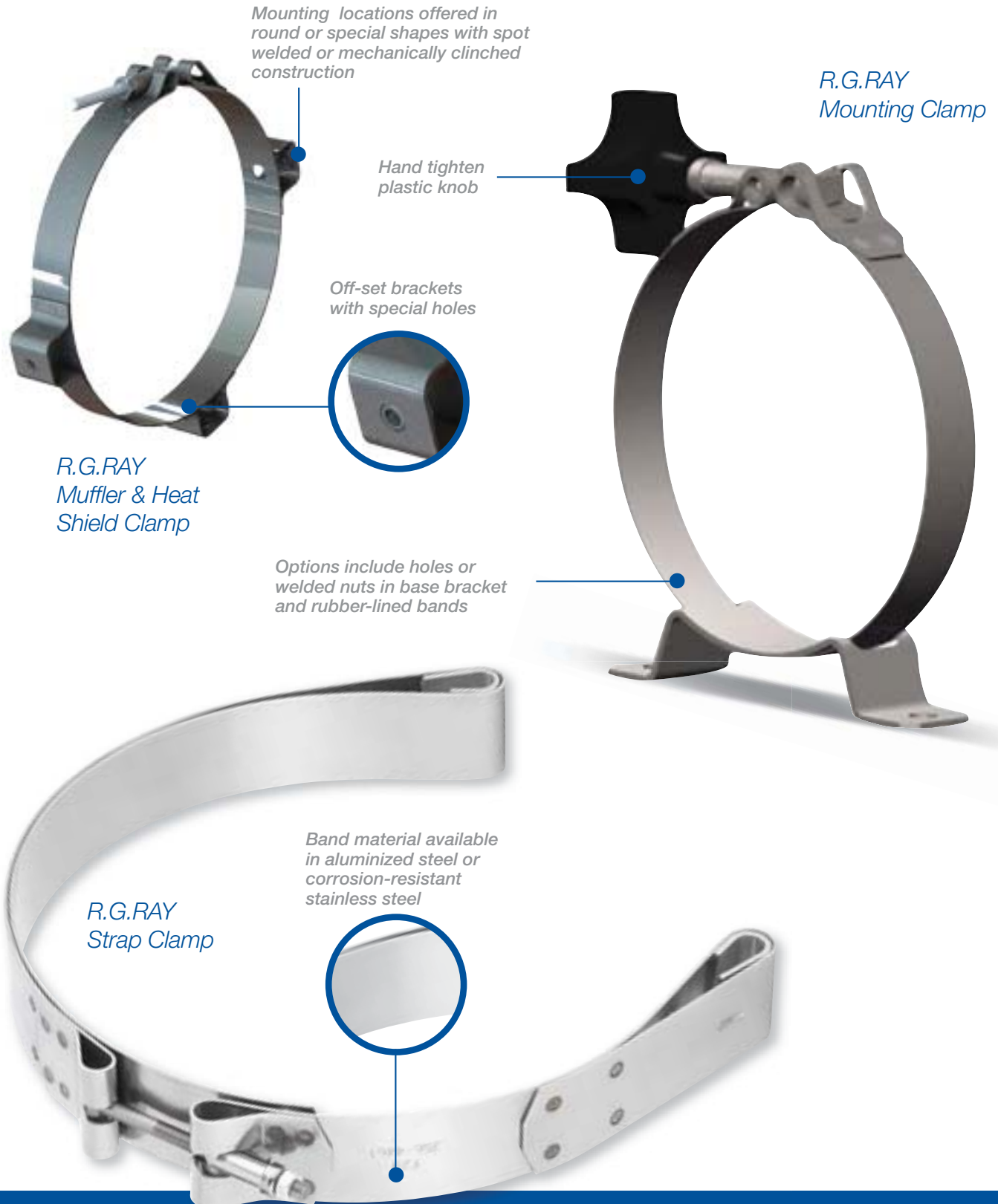
## V-Band Clamps

R.G.RAY offers V-Band Clamps to meet a wide range of uses. Because we make such a large variety of V-Band Clamps, we are able to meet the needs of industries as diverse as automotive and diesel to dairy farming. Features such as quick-connect and quick-release fasteners, and designs that include hinged construction make R.G.RAY clamps easy to use in virtually any application requiring V-Band profiles.



## Retaining and Mounting Clamps

R.G.RAY makes a variety of mounting and retaining clamps to secure everything from mufflers and heat shields, to canisters, oil coolers, tanks and reservoirs, pipes and grab bars. A range of band materials, closures and features — such as rounded band edges, quick-connect latches — make them ideal for applications in the automotive, general industrial and agricultural industries.



## Product Portfolio Quick Reference



### T-Bolt

- | 0.75" Band Width
- | Diameter Range 1.31"– 13.07"
- | 0.25" Plated Steel Bolt
- | SAE Standard J1508 Type TB

Page 108



### General Purpose V-Insert

- | 0.75"- 0.875" Band Widths
- | Diameter Range 2" and Larger
- | Corrosion-Resistant/Specialty Steels
- | Two, three or four Inserts

Page 112-113



### Mini Flex Seal™

- | 0.562" Band Width
- | Diameter Range 1.31"– 6.12"
- | Constant Tension Spring
- | Plated Steel Bridge

Page 109



### Quick Connect V-Insert

- | 0.625" - 1" Band Widths
- | Diameter Range 2.08" – 5.90"
- | Corrosion-Resistant/Specialty Steels
- | Three Welded Inserts

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### Flex Seal™

- | 0.75" Band Width
- | Diameter Range 1.69"– 13.13"
- | Constant-Tension Spring
- | SAE Standard J1508 Type SLTB

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### Quick Release V-Insert

- | 0.625" - 1" Band Widths
- | Diameter Range 2" and Larger
- | Corrosion-Resistant/Specialty Steels
- | Three Welded Inserts

Page 114



### Flex Seal™ HD

- | 0.75" Band Width
- | Diameter Range 1.69"– 14.06"
- | Heavy-Duty Constant-Tension Spring
- | SAE Standard J1508 Type SLTB

Page 111



### Light Duty V-Insert

- | Three Welded Inserts
- | Diameter Range 2"– 5.50"
- | Corrosion-Resistant Steels
- | 0.312" Slotted Hex Head Screw

Page 115



### Roll Formed V-Clamp

- | Flexible Partial Outer Band
- | Diameter Range 4.53"– 18.88"
- | Corrosion-Resistant Steels
- | Continuously Formed Insert

Page 116



### V-Clamp Halves

- | Economical Coupling
- | Diameter Range 2.51"– 6.12"
- | Corrosive/Heat-Resistant Steels
- | Weld-Free Construction

Page 119



### Flex Roll Formed V-Clamp

- | Flexible Partial Outer Band
- | Nominal Diameter 21.61"
- | Corrosion/Heat-Resistant Steels
- | 0.25", 0.312", M6 & 0.375" Fasteners

Page 117



### V-Coupling

- | Two V-Retainers with Hinge
- | Diameter Range 2"–7"
- | Corrosion/Heat-Resistant Steels
- | Weld-Free Construction

Page 119



### Uni-Flex V-Clamp

- | Cost-Effective Continuous Band
- | Diameter Range 4.19" – 5.88"
- | Corrosion/Heat-Resistant Steels
- | 0.25", 0.312", M6 & 0.375" Fasteners

Page 117



### Strap Clamps

- | Application Specific Designs
- | Various Steels Available
- | Optional Latches and Hardware
- | Custom Designed Lengths Available

Page 120



### E-Series V-Clamp

- | Economical Coupling
- | Diameter Range 2.81"– 21.25"
- | Corrosive/Heat-Resistant Steels
- | Weld-Free Construction

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### Mounting, Muffler & Heat Shield Clamps

- | Application Specific Designs
- | Various Steels Available
- | Optional Latches and Hardware
- | Custom Diameter Ranges

Page 120

## T-Bolt Hose Clamp



A heavy-duty T-Bolt clamp for automotive, industrial, and marine applications.

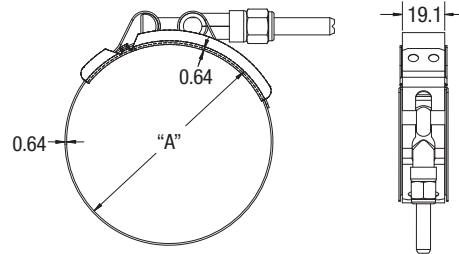
3/4" Band Width | 1/4" T-Bolt | SAE Standard J1508 Type TB | Diameter Range 1.31" – 13.07"

### T-BOLT HOSE CLAMP

- 1/4" Plated Steel Bolt
- 3/4" Stainless Steel Band
- Floating Bridge

### ALL SS T-BOLT HOSE CLAMP

- 1/4" Stainless Steel Bolt
- 3/4" Stainless Steel Band
- Floating Bridge



Units: mm



SAE	T-BOLT HOSE CLAMP		ALL SS T-BOLT HOSE CLAMP		inches		mm (A)	
	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
-	650-021	0374 0101 036	935-021	0374 0102 036	1.31	1.56	33.27	39.62
-	650-025	0374 0101 043	935-025	0374 0102 043	1.56	1.81	39.62	45.97
-	700-027	0374 0201 046	853-027	0374 0202 046	1.69	1.94	42.93	49.28
30	700-029	0374 0201 049	853-029	0374 0202 049	1.81	2.06	45.97	52.32
38	700-033	0374 0201 055	853-033	0374 0203 055	2.06	2.31	52.32	58.67
42	700-035	0374 0201 060	853-035	0374 0202 060	2.19	2.50	55.63	63.50
46	700-037	0374 0201 063	853-037	0374 0202 063	2.31	2.62	58.67	66.55
48	700-038	0374 0201 064	853-038	0374 0203 064	2.38	2.69	60.45	68.33
50	700-039	0374 0201 066	853-039	0374 0202 066	2.44	2.75	61.98	69.85
54	700-041	0374 0201 069	853-041	0374 0202 069	2.56	2.87	65.02	72.90
58	700-043	0374 0201 072	853-043	0374 0203 072	2.69	3.00	68.33	76.20
62	700-045	0374 0201 075	853-045	0374 0202 075	2.81	3.12	71.37	79.25
66	700-047	0374 0201 079	853-047	0374 0203 079	2.94	3.25	74.68	82.55
70	700-049	0374 0201 082	853-049	0374 0202 082	3.06	3.37	77.72	85.60
78	700-053	0374 0202 088	853-053	0374 0204 088	3.31	3.62	84.07	91.95
86	700-057	0374 0202 094	853-057	0374 0205 094	3.56	3.87	90.42	98.30
88	700-058	0374 0201 096	853-058	0374 0202 096	3.63	3.94	92.20	100.08
94	700-061	0374 0201 101	853-061	0374 0202 101	3.81	4.12	96.77	104.65
102	700-065	0374 0201 107	853-065	0374 0202 107	4.06	4.37	103.12	111.00
110	700-069	0374 0201 113	853-069	0374 0204 113	4.31	4.62	109.47	117.35
118	700-073	0374 0201 120	853-073	0374 0202 120	4.56	4.87	115.82	123.70
126	700-077	0374 0201 126	853-077	0374 0202 126	4.81	5.12	122.17	130.05
134	700-081	0374 0201 132	853-081	0374 0202 132	5.06	5.37	128.52	136.40
142	700-085	0374 0201 139	853-085	0374 0202 139	5.31	5.62	134.87	142.75
150	700-089	0374 0201 145	853-089	0374 0203 145	5.56	5.87	141.22	149.10
158	700-093	0374 0201 152	853-093	0374 0202 152	5.81	6.12	147.57	155.45
166	700-097	0374 0201 158	853-097	0374 0202 158	6.06	6.37	153.92	161.80
174	700-101	0374 0201 164	853-101	0374 0202 164	6.31	6.62	160.27	168.15
182	700-105	0374 0201 171	853-105	0374 0202 171	6.56	6.87	166.62	174.50
190	700-109	0374 0201 177	853-109	0374 0202 177	6.81	7.12	172.97	180.85
198	700-113	0374 0201 183	853-113	0374 0203 183	7.06	7.37	179.32	187.20
206	700-117	0374 0201 190	853-117	0374 0202 190	7.31	7.62	185.67	193.55
214	700-121	0374 0201 196	853-121	0374 0202 196	7.56	7.87	192.02	199.89
222	700-125	0374 0201 202	853-125	0374 0202 202	7.81	8.12	198.37	206.25
230	700-129	0374 0201 209	853-129	0374 0202 209	8.06	8.37	204.72	212.60
250	700-139	0374 0201 225	853-139	0374 0203 225	8.69	9.19	220.73	233.43
312	700-170	0374 0201 276	853-170	0374 0202 276	10.63	11.13	270.00	281.18
366	700-202	-	853-202	0374 0201 326	12.63	13.07	320.80	331.98

Note: Call for a complete list of sizes and materials.

# Mini Flex Seal™ Hose Clamp

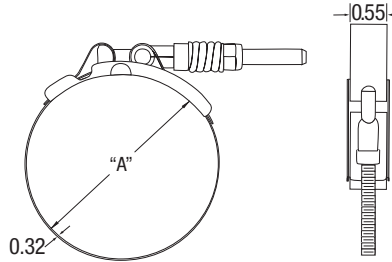


Flex Seal clamp with constant-tension spring for a wide variety of automotive, industrial, and marine applications.

9/16" Band Width | Constant-Tension Performance | Plated Steel Bridge | Diameter Range 1.31" – 6.12"

## MINI FLEX SEAL HOSE CLAMP

- Plated Steel Bridge
- M5 T-Bolt and Hardware
- Standard Constant-Tension Spring



Units: mm



MINI FLEX SEAL HOSE CLAMP		Nominal Size		inches		mm (A)	
Brand PN	Global PN	inches	mm	min	max	min	max
226-021	0374 0301 035	1.38	34.93	1.31	1.48	33.3	37.6
226-022	0374 0301 037	1.47	37.31	1.38	1.55	35.1	39.4
226-023	0374 0301 039	1.53	38.89	1.44	1.61	36.6	40.9
226-025	0374 0301 042	1.66	42.07	1.56	1.76	39.6	44.7
226-027	0374 0301 045	1.78	45.24	1.69	1.89	42.9	48
226-028	0374 0301 048	1.88	47.63	1.75	2	44.5	50.8
226-029	0374 0301 049	1.94	49.21	1.81	2.06	46	52.3
226-030	0374 0301 051	1.97	49.92	1.88	2.13	47.8	54.1
226-031	0374 0301 053	2.09	53.18	1.94	2.25	49.3	57.2
226-033	0374 0301 056	2.22	56.36	2.06	2.37	52.3	60.2
226-034	0374 0301 058	2.28	57.94	2.13	2.44	54.1	62
226-035	0374 0301 060	2.66	67.47	2.19	2.5	55.6	63.5
226-036	0374 0301 061	2.41	61.12	2.25	2.56	57.2	65
226-037	0374 0301 063	2.47	62.71	2.31	2.62	58.7	66.5
226-038	0374 0301 064	2.53	64.29	2.38	2.69	60.5	68.3
226-039	0374 0301 066	2.59	65.88	2.44	2.75	62	69.9
226-040	0374 0301 067	2.66	67.47	2.5	2.81	63.5	71.374
226-041	0374 0301 069	2.72	69.06	2.56	2.87	65.0	72.9
226-042	0374 0301 071	2.78	70.64	2.63	2.94	66.8	74.7
226-043	0374 0301 072	2.84	72.23	2.69	3	68.3	76.2
226-044	0374 0301 074	2.91	73.82	2.75	3.06	69.9	77.7
226-045	0374 0301 075	2.97	75.41	2.81	3.12	71.4	79.2
226-046	0374 0301 077	3.34	84.93	2.88	3.19	73.2	81.0
226-047	0374 0301 079	3.09	78.58	2.94	3.25	74.7	82.6
226-049	0374 0301 082	3.22	81.76	3.06	3.37	77.7	85.6
226-053	0374 0301 088	3.47	88.11	3.31	3.62	84.1	91.9
226-057	0374 0301 094	3.72	94.46	3.56	3.87	90.4	98.3
226-061	0374 0301 101	3.97	100.81	3.81	4.12	96.8	104.6
226-065	0374 0301 107	4.22	107.16	4.06	4.37	103.1	111.0
226-069	0374 0301 113	4.47	113.51	4.31	4.62	109.5	117.3
226-073	0374 0301 120	4.72	119.86	4.56	4.87	115.8	123.7
226-077	0374 0301 126	4.97	126.21	4.81	5.12	122.2	130.0
226-085	0374 0301 139	5.47	138.91	5.31	5.62	134.9	142.7
226-086	0374 0301 141	5.53	140.49	5.38	5.69	136.7	144.5
226-093	0374 0301 152	5.97	151.61	5.81	6.12	147.6	155.4

Note: Call for a complete list of sizes and materials.

## Flex Seal™ Spring Hose Clamp

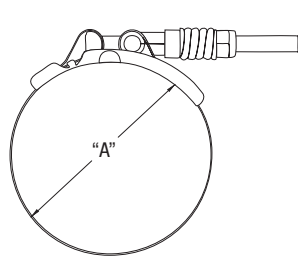


Flex-Seal clamp with constant-tension spring for a wide variety of automotive, industrial, and marine applications.

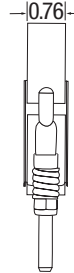
**3/4" Band Width** | **Constant-Tension Performance** | **SAE Standard J1508 Type SLTB** | **Diameter Range 1.69" – 13.13"**

### FLEX SEAL SPRING HOSE CLAMP

- 1/4" Plated Steel Bolt
- 3/4" Stainless Steel Band
- Standard Constant-Tension Spring



Units: inches



SAE	FLEX SEAL SPRING HOSE CLAMP		inches		mm (A)	
	Brand PN	Global PN	min	max	min	max
-	667-027	0363 0010 046	1.69	1.94	42.9	49.2
-	667-029	0363 0010 049	1.81	2.06	46.0	52.4
-	667-033	0363 0011 056	2.06	2.37	52.3	60.2
30	667-035	0374 0400 060	2.19	2.5	55.6	63.5
38	667-037	0374 0401 063	2.31	2.62	58.7	66.5
42	667-038	0374 0401 064	2.37	2.68	60.2	68.1
46	667-039	0374 0401 066	2.44	2.75	62.0	69.9
48	667-041	0374 0401 069	2.56	2.87	65.0	72.9
50	667-043	0374 0401 072	2.69	3.00	68.3	76.2
54	667-045	0374 0401 075	2.81	3.12	71.4	79.2
58	667-047	0363 0000 079	2.94	3.25	74.7	82.6
62	667-049	0374 0401 082	3.06	3.37	77.7	85.6
66	667-053	0374 0401 088	3.31	3.62	84.1	91.9
70	667-057	0374 0401 094	3.56	3.87	90.4	98.3
78	667-058	0374 0401 096	3.63	3.94	92.2	100.1
86	667-061	0374 0401 101	3.81	4.12	96.8	104.6
88	667-065	0374 0401 107	4.06	4.37	103.1	111.0
94	667-069	0374 0401 113	4.31	4.62	109.5	117.3
102	667-073	0374 0401 120	4.56	4.87	115.8	123.7
110	667-077	0363 0006 126	4.81	5.12	122.2	130.1
118	667-081	0363 0013 133	5.06	5.37	128.6	136.5
126	667-085	0374 0401 139	5.31	5.62	134.9	142.8
134	667-088	0374 0401 144	5.50	5.81	139.7	147.6
142	667-089	0374 0401 152	5.56	5.87	141.3	149.2
150	667-093	0374 0401 152	5.81	6.12	147.6	155.5
158	667-097	0363 0004 158	6.06	6.37	154.0	161.9
166	667-101	0374 0401 164	6.31	6.62	160.3	168.2
174	667-105	0363 0002 171	6.56	6.87	166.7	174.6
182	667-109	0363 0000 177	6.81	7.12	173.0	180.9
190	667-113	0363 0003 183	7.06	7.37	179.4	187.3
198	667-117	0374 0401 190	7.31	7.62	185.7	193.6
206	667-120	0374 0401 194	7.50	7.81	190.5	198.4
214	667-121	0374 0401 196	7.56	7.87	192.1	200.0
222	667-125	0374 0401 202	7.81	8.12	198.4	206.3
230	667-129	0363 0001 209	8.06	8.37	204.8	212.7
250	667-139	0363 0000 225	8.69	9.00	220.7	228.5
312	667-170	0363 0002 276	10.63	11.13	269.9	282.6
366	667-202	0363 0004 327	12.63	13.13	320.7	333.4

Note: Call for a complete list of sizes and materials.



# Flex Seal™ HD Spring Hose Clamp

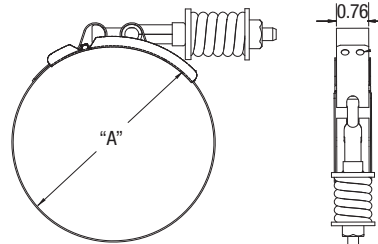


Flex-Seal clamp with constant-tension spring for a wide variety of automotive, industrial, and marine applications.

3/4" Band Width | Constant-Tension Performance | SAE Standard J1508 Type SLTB | Diameter Range 1.69" – 14.06"

**FLEX SEAL HD SPRING HOSE CLAMP**

- 1/4" Plated Steel Bolt
- 3/4" Stainless Steel Band
- Heavy-Duty Constant-Tension Spring



Units: inches



SAE	FLEX SEAL HD SPRING HOSE CLAMP		inches		mm (A)	
	Brand PN	Global PN	min	max	min	max
-	848-027	0374 0501 047	1.69	2.00	42.93	50.80
38	848-033	0374 0501 056	2.06	2.37	52.32	60.20
42	848-035	0374 0502 060	2.19	2.5	55.63	63.50
44	848-036	0374 0502 061	2.25	2.56	57.20	65.00
48	848-038	0374 0501 064	2.37	2.68	60.20	68.07
50	848-039	0374 0502 066	2.44	2.75	61.98	69.85
54	848-041	0374 0502 069	2.56	2.88	65.02	73.15
58	848-043	0374 0502 072	2.69	3.00	68.33	76.20
62	848-045	0374 0501 075	2.81	3.12	71.37	79.25
66	848-047	0374 0501 079	2.94	3.25	74.68	82.55
70	848-049	0374 0501 082	3.06	3.37	77.72	85.60
72	848-050	0374 0501 083	3.12	3.43	79.25	87.12
78	848-053	0374 0501 088	3.31	3.62	84.07	91.95
86	848-057	0374 0501 094	3.56	3.87	90.42	98.30
92	848-060	0374 0502 099	3.75	4.06	95.25	103.12
94	848-061	0374 0501 101	3.81	4.12	96.77	104.65
102	848-065	0374 0501 107	4.06	4.37	103.12	111.00
104	848-066	0374 0502 109	4.12	4.43	104.65	112.52
108	848-068	0374 0501 112	4.25	4.56	107.95	115.82
110	848-069	0374 0501 113	4.31	4.62	109.47	117.35
118	848-073	0374 0501 120	4.56	4.87	115.82	123.70
126	848-077	0374 0501 126	4.81	5.12	112.17	130.05
134	848-081	0374 0501 132	5.06	5.37	128.50	136.40
142	848-085	0374 0501 139	5.31	5.62	134.87	142.75
150	848-089	0374 0501 145	5.56	5.87	141.22	149.10
158	848-093	0374 0501 152	5.81	6.12	147.57	155.45
166	848-097	0363 0000 158	6.06	6.37	153.92	161.80
176	848-102	0374 0501 166	6.37	6.68	161.80	169.67
184	848-106	0374 0501 172	6.63	6.94	168.40	176.28
192	848-110	0363 0001 179	6.88	7.19	174.80	182.60
204	848-116	0363 0001 188	7.25	7.56	184.20	192.00
212	848-120	0363 0000 195	7.50	7.81	190.50	198.40
216	848-122	0374 0501 198	7.63	7.94	193.80	201.68
230	848-129	0363 0000 209	8.06	8.37	204.70	212.60
240	848-134	0363 0000 217	8.38	8.69	212.90	220.70
294	848-161	0363 0000 256	10.06	10.37	255.50	263.40
304	848-166	0363 0002 268	10.38	10.69	263.70	271.50
334	848-185	0363 0000 298	11.56	11.87	293.60	301.50
-	848-188	0363 0001 302	11.75	12.06	298.50	306.30
-	848-220	0363 0000 353	13.75	14.06	349.25	357.12

Note: Call for a complete list of sizes and materials.

## General Purpose V-Insert Clamp

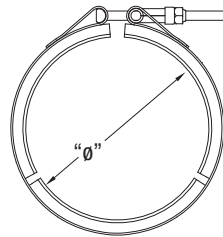
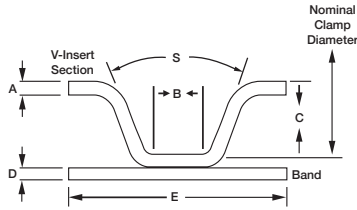


Clamps that can develop high axial clamping force with high burst pressure capability in diesel engine exhaust and turbochargers.

Corrosion-Resistant & Specialty Steels | Multiple Fastener Options | Diameter Range 2.31"– 14.38"

### GENERAL PURPOSE V-INSERT

Corrosion-Resistant & Specialty Steels  
Multiple Band Widths  
Available with 2, 3 or 4 Inserts



GENERAL PURPOSE V-INSERT CLAMP		Nominal Diameter (Ø)		# of Inserts	Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm				in	mm	in	mm	in	mm	in	mm	in	mm
010134-008	0373 0102 059	2.31	58.7	2	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010499-006	0373 0102 068	2.69	68.3	3	50 in lb	40	0.050	1.27	0.239	6.07	0.190	4.83	0.040	1.02	0.750	19.05
010672	0373 0105 076	3.00	76.2	3	50 in lb	40	0.050	1.27	0.340	8.64	0.190	4.83	0.040	1.02	0.875	22.23
010499-005	0373 0103 076	3.00	76.2	3	50 in lb	40	0.050	1.27	0.239	6.07	0.190	4.83	0.040	1.02	0.750	19.05
010614	0373 0104 076	3.01	76.5	3	75 in lb	40	0.050	1.27	0.281	7.14	0.157	3.99	0.040	1.02	0.750	19.05
010667	0373 0103 078	3.09	78.5	3	50 in lb	40	0.060	1.52	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010170	0373 0101 081	3.18	80.8	3	50 in lb	40	0.060	1.52	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
010301-008	0373 0110 082	3.22	81.8	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010134-002	0373 0101 082	3.22	81.8	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
050451	0373 0202 082	3.24	82.3	3	110 in lb	40	0.069	1.75	0.219	5.56	0.205	5.21	0.050	1.27	1.000/630	25.40/16.00
010636	0373 0103 083	3.25	82.6	3	150 in lb	40	0.120	3.05	0.260	6.60	0.252	6.40	0.062	1.57	1.000/500	25.40/12.70
010719	0373 0105 083	3.25	82.6	3	150 in lb	40	0.120	3.05	0.208	5.28	0.252	6.40	0.062	1.57	1.000/500	25.40/12.70
010729	0373 0102 085	3.33	84.6	3	100 in lb	40	0.077	1.96	0.331	8.41	0.281	7.14	0.040	1.02	0.875	22.23
010148-003	0373 0102 089	3.50	88.9	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010148-002	0373 0101 097	3.82	97.0	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
100020-001	0373 0104 097	3.82	97.0	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010332	0373 0102 098	3.87	98.3	3	75 in lb	40	0.077	1.96	0.425	10.80	0.312	7.92	0.050	1.27	0.875	22.23
010028-001	0373 0101 099	3.88	98.6	3	50 in lb	40	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
006021	0373 0101 102	4.03	102.4	3	75 in lb	40	0.077	1.96	0.219	5.56	0.157	3.99	0.062	1.57	0.540	13.72
010624	0373 0104 103	4.06	103.1	3	75 in lb	40	0.080	2.03	0.315	8.00	0.354	8.99	0.080	2.03	0.750	19.05
010371	0373 0103 104	4.10	104.1	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.062	1.57	0.670	17.02
010601	0373 0107 106	4.16	105.7	3	50 in lb	40	0.060	1.52	0.309	7.85	0.236	5.99	0.040	1.02	0.750	19.05
100137	0373 0114 106	4.19	106.4	3	75 in lb	40	0.077	1.96	0.400	10.16	0.281	7.14	0.062	1.57	0.875	22.23
010650	0373 0104 107	4.23	107.5	3	75 in lb	38	0.050	1.27	0.262	6.65	0.141	3.58	0.050	1.27	0.750	19.05
010028-002	0373 0102 108	4.25	108.0	3	50 in lb	40	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
100020-006	0373 0106 109	4.31	109.5	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010261-002	0373 0101 109	4.31	109.5	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.875	22.23
010325	0373 0103 109	4.31	109.5	3	50 in lb	40	0.060	1.52	0.256	6.50	0.312	7.92	0.040	1.02	0.750	19.05
010566-001	0373 0103 110	4.33	110.0	3	75 in lb	40	0.060	1.52	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
010770	0373 0105 110	4.33	110.0	3	50 in lb	40	0.040	1.02	0.207	5.26	0.281	7.14	0.025	0.64	0.750	19.05
010445	0373 0101 110	4.34	110.2	3	50 in lb	40	0.050	1.27	0.239	6.07	0.281	7.14	0.040	1.02	0.750	19.05
100020-010	0373 0104 113	4.43	112.5	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010179-003	0373 0102 114	4.48	113.8	3	150 in lb	40	0.073	1.85	0.262	6.65	0.141	3.58	0.062	1.57	0.670	17.02

GENERAL PURPOSE V-INSERT CLAMP		Nominal Diameter (Ø)		# of Inserts	Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm				in	mm	in	mm	in	mm	in	mm	in	mm
010134-005	0373 0101 114	4.50	114.3	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010261-003	0373 0100 114	4.50	114.3	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.875	22.23
100020-002	0373 0107 114	4.50	114.3	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010039	0373 0101 117	4.61	117.1	3	50 in lb	40	0.050	1.27	0.156	3.96	0.218	5.54	0.035	0.89	0.750	19.05
100076	0373 0107 119	4.69	119.1	3	75 in lb	40	0.077	1.96	0.400	10.16	0.281	7.14	0.062	1.57	0.875	22.23
100181	0373 0000 119	4.69	119.1	3	75 in lb	40	0.077	1.96	0.475	12.07	0.281	7.14	0.050	1.27	0.875	22.23
010595-001	0373 0106 119	4.69	119.1	3	50 in lb	40	0.060	1.52	0.372	9.45	0.281	7.14	0.035	0.89	0.750	19.05
100211	0373 0109 119	4.69	119.1	3	125 in lb	40	0.077	1.96	0.900	22.86	0.281	7.14	0.062	1.57	0.875	22.23
010301-004	0373 0101 120	4.71	119.6	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010028-006	0373 0101 121	4.75	120.7	3	50 in lb	40	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
100020-005	0373 0110 121	4.75	120.7	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010431	0373 0106 121	4.76	120.9	3	50 in lb	40	0.050	1.27	0.516	13.11	0.281	7.14	0.040	1.02	1.000	25.40
010667-001	0373 0011 121	4.78	121.4	3	50 in lb	40	0.060	1.52	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
100020-003	0373 0106 122	4.81	122.2	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010028-004	0373 0101 127	5.00	127.0	3	50 in lb	40	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
010149-007	0373 0102 127	5.00	127.0	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010149-001	0373 0105 133	5.24	133.1	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010134	0373 0103 133	5.25	133.4	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010149-006	0373 0101 135	5.30	134.6	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010301	0373 0102 135	5.30	134.6	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010301-005	0373 0103 140	5.50	139.7	3	50 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010149-002	0373 0101 144	5.65	143.5	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010028-003	0373 0101 149	5.88	149.4	3	50 in lb	40	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
010484	0373 0108 149	5.88	149.4	3	75 in lb	40	0.050	1.27	0.400	10.16	0.281	7.14	0.040	1.02	0.875	22.23
03730002150	0373 0002 150	5.90	149.9	3	100 in lb	38	0.080	2.03	0.402	10.21	0.276	7.01	0.080	2.03	0.875	22.23
010769	0373 0108 150	5.91	150.1	3	50 in lb	40	0.050	1.27	0.428	10.87	0.309	7.85	0.040	1.02	0.875	22.23
010768	0373 0109 150	5.92	150.4	3	50 in lb	40	0.050	1.27	0.379	9.63	0.309	7.85	0.040	1.02	0.875	22.23
100034	0373 0106 150	5.92	150.4	3	75 in lb	40	0.090	2.29	0.280	7.11	0.301	7.65	0.062	1.57	0.875	22.23
010149-003	0373 0103 152	6.00	152.4	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010149-005	0373 0101 159	6.25	158.8	3	75 in lb	40	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.89	0.750	19.05
010652-006	0373 0102 177	6.97	177.0	3	75 in lb	38	0.100	2.54	0.257	6.53	0.200	5.08	0.062	1.57	.750/.500	19.05/12.70
010652-005	0373 0101 177	6.97	177.0	3	75 in lb	38	0.100	2.54	0.257	6.53	0.200	5.08	0.062	1.57	0.750	19.05
010179-001	0373 0101 204	8.03	204.0	3	150 in lb	40	0.073	1.85	0.262	6.65	0.141	3.58	0.062	1.57	0.670	17.02
100080	0373 0102 220	8.66	220.0	3	75 in lb	40	0.077	1.96	0.181	4.60	0.281	7.14	0.077	1.96	0.875	22.23
100123	0373 0102 240	9.45	240.0	3	75 in lb	40	0.090	2.29	0.284	7.21	0.360	9.14	0.062	1.57	0.875	22.23
03730000241	0373 1000 241	9.48	240.8	3	100 in lb	40	0.080	2.03	0.400	10.16	0.281	7.14	0.062	1.57	1.000	25.40
010363-003	0373 0101 242	9.53	242.1	3	50 in lb	40	0.040	1.02	0.181	4.60	0.281	7.14	0.035	0.89	0.750	19.05
100279-004	0373 0104 264	10.38	263.7	4	100 in lb	40	0.077	1.96	0.104	2.63	0.281	7.14	0.062	1.57	0.875	22.23
100142	0373 0101 278	10.93	277.6	3	75 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.062	1.57	0.875	22.23
100275	0373 0103 278	10.94	278.0	4	75 in lb	40	0.090	2.29	0.284	7.21	0.360	9.14	0.062	1.57	0.875	22.23
010469	0373 0101 280	11.04	280.4	3	75 in lb	40	0.060	1.52	0.592	15.04	0.280	7.11	0.035	0.89	0.750	19.05
100078	0373 0101 282	11.10	281.9	4	75 in lb	40	0.090	2.29	0.312	7.92	0.425	10.80	0.062	1.57	0.875	22.23
100274	0373 0102 292	11.50	292.1	4	100 in lb	40	0.077	1.96	0.207	5.26	0.281	7.14	0.050	1.27	0.875	22.23
010514	0373 0101 300	11.80	299.7	3	35 in lb	14	0.060	1.52	0.440	11.18	0.360	9.14	0.035	0.89	0.750	19.05
100279-005	0373 0105 302	11.88	301.8	4	100 in lb	40	0.077	1.96	0.104	2.63	0.281	7.14	0.062	1.57	0.875	22.23
03730000303	0373 0000 303	11.93	303.0	4	100 in lb	40	0.080	2.03	0.510	12.95	0.435	11.05	0.062	1.57	1.118	28.40
100279-006	0373 0104 340	13.38	339.9	4	100 in lb	40	0.077	1.96	0.104	2.63	0.281	7.14	0.062	1.57	0.875	22.23
100279-007	0373 0103 365	14.38	365.3	4	100 in lb	40	0.077	1.96	0.104	2.63	0.281	7.14	0.062	1.57	0.875	22.23

Note: Call for a complete list of sizes and materials.  
 \*CRS (non-plated) band and insert  
 \*\*441 SS band and insert

## Quick Connect V-Insert Clamp

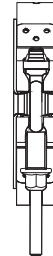
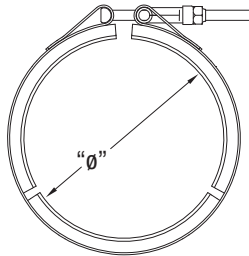
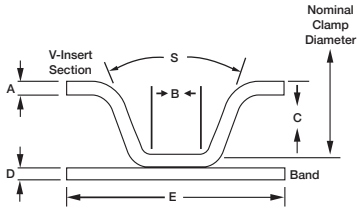


Develops high axial clamping force and burst pressure capability for diesel exhaust and turbochargers.

40 Degree Insert Angle | Three V-Inserts Welded to Outer Band | Plastic Knob Available | Diameter Range 2.08" – 5.90"

### QUICK-CONNECT V-INSERT CLAMP

1/4" or 5/16" Fasteners  
300-Series SS Band  
Three Welded Inserts / Flexible Outer Band



QUICK CONNECT V-INSERT CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm
050218-001**	0373 0201 053**	2.08	52.8	25 in.-lb.	40°	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.64	0.625	15.88
050432-002	0373 0203 056	2.19	55.6	100 in.-lb.	40°	0.060	1.52	0.212	5.38	0.281	7.14	0.040	1.02	0.875	22.23
050218-002**	0373 0201 067**	2.62	66.6	25 in.-lb.	40°	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.64	0.625	15.88
050483	0373 0203 068	2.69	68.3	100 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
050513	0373 0201 075	2.95	74.9	75 in.-lb.	40°	0.050	1.27	0.400	10.16	0.190	4.83	0.040	1.02	0.875	22.23
050424	0373 0204 076	3.00	76.2	50 in.-lb.	40°	0.050	1.27	0.340	8.64	0.190	4.83	0.040	1.02	0.875	22.23
050483-001	0373 0204 079	3.11	79.0	100 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
050218-003**	0373 0201 080	3.15	80.0	25 in.-lb.	40°	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.64	0.625	15.88
03650000093	0365 0000 093	3.66	93.0	50 in.-lb.	40°	0.080	2.03	0.311	7.90	0.281	7.14	0.040	1.02	0.750	19.05
050218-004**	0373 0202 093**	3.67	93.2	25 in.-lb.	40°	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.64	0.625	15.88
050144-002	0373 0201 097	3.82	97.0	50 in.-lb.	40°	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
050371	0373 0203 098	3.85	97.8	50 in.-lb.	40°	0.050	1.27	0.239	6.07	0.281	7.14	0.035	0.89	0.750	19.05
050498	0373 0202 106	4.16	105.7	75 in.-lb.	40°	0.060	1.52	0.309	7.85	0.236	5.99	0.040	1.02	0.750	19.05
050478	0373 0202 108	4.26	108.2	100 in.-lb.	40°	0.077	1.96	0.410	10.41	0.281	7.14	0.050	1.27	0.750	19.05
050398-007	0373 0207 111	4.37	111.0	133 in.-lb.	40°	0.077	1.96	0.290	7.37	0.328	8.33	0.050	1.27	0.750	19.05
050415	0373 0208 111	4.38	111.3	100 in.-lb.	40°	0.090	2.29	0.248	6.30	0.281	7.14	0.040	1.02	0.750	19.05
050418	0373 0209 111	4.38	111.3	100 in.-lb.	40°	0.060	1.52	0.277	7.04	0.258	6.55	0.040	1.02	0.750	19.05
050470	0373 0201 112	4.41	112.0	100 in.-lb.	40°	0.060	1.52	0.337	8.56	0.292	7.42	0.050	1.27	0.875	22.23
050144-003	0373 0201 114	4.50	114.3	50 in.-lb.	40°	0.077	1.96	0.207	5.26	0.281	7.14	0.040	1.02	0.750	19.05
050474*	0373 0202 122*	4.79	121.7	100 in.-lb.	40°	0.080	2.03	0.355	9.02	0.320	8.13	0.062	1.57	1.000	25.40
050309-001**	0373 0201 130**	5.11	129.8	50 in.-lb.	40°	0.040	1.02	0.159	4.04	0.215	5.46	0.025	0.64	0.750	19.05
050443	0373 0202 149	5.87	149.1	75 in.-lb.	40°	0.050	1.27	0.365	9.27	0.305	7.75	0.040	1.02	0.875	22.23
050487*	0373 0201 150*	5.90	149.9	100 in.-lb.	40°	0.080	2.03	0.354	8.99	0.281	7.14	0.062	1.57	1.000	25.40

Note: Call for a complete list of sizes and materials.

\*441 stainless steel band and insert

\*\*With plastic knob



## Quick Release V-Insert Clamp

- For Filters, Mixers, and Separators
- Diameter Range 2" and Larger
- Corrosive Resistant/Specialty Steels
- Three Welded Inserts

Call our sales team to find the part number that fits your application requirements.

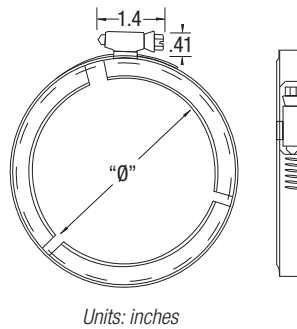
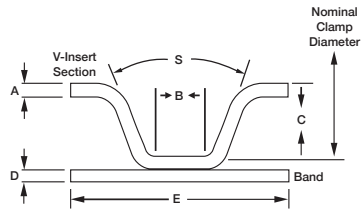
# Light Duty V-Insert Clamp



V-Insert Clamp for dairy equipment, diesel engines, and swimming pool equipment.

Installation Torque 25 in.-lbs. | Welded Band Construction | Corrosion-Resistant Steel | Nominal Diameter Range 2" – 5.50"

**LIGHT-DUTY V-INSERT**  
Worm-Drive Closure  
Three Welded Inserts  
300-Series SS Band and Insert



Units: inches

LIGHTDUTY V-INSERT CLAMP		Nominal Diameter (Ø)		Screw Type	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm
000540-001	0373 0001 051**	2.00	50.8	Thumb Wing	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.530	13.46
000555-001	0373 0002 051	2.00	50.8	Hex-Head	40°	0.060	2	0.262	6.65	0.218	5.54	0.026	0.66	0.500	12.70
000555-01S	0373 0001 053	2.08	52.8	Hex-Head	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.500	12.70
000540-002	0373 0001 067**	2.62	66.6	Thumb Wing	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.530	13.46
000555-002	0373 0002 067	2.62	66.6	Hex-Head	40°	0.060	2	0.262	6.65	0.218	5.54	0.026	0.66	0.500	12.70
000555-02S	0373 0003 067	2.62	66.6	Hex-Head	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.500	12.70
002347	0373 0001 073	2.88	73.2	Hex-Head	40°	0.050	1	0.210	5.33	0.276	7.01	0.025	0.64	0.500	12.70
000607	0373 0001 076	3.00	76.2	Hex-Head	40°	0.025	1	0.143	3.63	0.151	3.84	0.026	0.66	0.500	12.70
002337	0373 0001 078	3.06	77.7	Hex-Head	40°	0.050	1	0.265	6.73	0.348	8.84	0.023	0.58	0.500	12.70
000540-003	0373 0001 080**	3.15	80.0	Thumb Wing	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.530	13.46
000555-003	0373 0002 080	3.15	80.0	Hex-Head	40°	0.060	2	0.262	6.65	0.218	5.54	0.026	0.66	0.500	12.70
000555-03S	0373 0003 080	3.15	80.0	Hex-Head	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.500	12.70
000607-001	0373 0002 090	3.54	89.9	Hex-Head	60°	0.025	1	0.143	3.63	0.151	3.84	0.026	0.66	0.500	12.70
000551-001	0373 0001 090	3.56	90.4	Hex-Head	40°	0.035	1	0.156	3.96	0.218	5.54	0.025	0.64	0.500	12.70
000540-004	0373 0001 093**	3.67	93.2	Thumb Wing	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.530	13.46
000555-004	0373 0002 093	3.67	93.2	Hex-Head	40°	0.060	2	0.262	6.65	0.218	5.54	0.026	0.66	0.500	12.70
000555-04S	0373 0000 093	3.67	93.2	Hex-Head	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.500	12.70
002337-001	0373 0001 095	3.75	95.3	Hex-Head	40°	0.050	1	0.265	6.73	0.348	8.84	0.023	0.58	0.500	12.70
000555-005	0373 0001 107	4.21	106.9	Hex-Head	40°	0.060	2	0.262	6.65	0.218	5.54	0.026	0.66	0.500	12.70
000555-16S	0373 0002 121	4.75	120.7	Hex-Head	40°	0.035	1	0.262	6.65	0.141	3.58	0.026	0.66	0.500	12.70
000540-005	0373 0001 121**	4.78	121.4	Thumb Wing	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.530	13.46
000555-13S	0373 0001 140	5.50	139.70	Hex-Head	40°	0.050	1	0.262	6.65	0.141	3.58	0.026	0.66	0.500	12.70

Note: Call for a complete list of sizes and materials.  
\*\*410 stainless steel screw

## Roll Formed V-Clamp

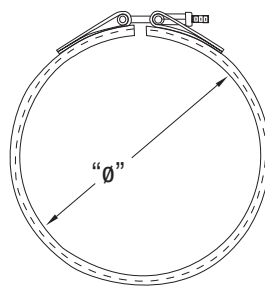
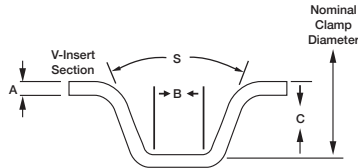


Has a continuous V-retainer and partial outer band, compact profile to fit flanges having limited clearance.

Continuously Formed with Partial Outer-Band | For Turbochargers and Exhausts | Diameter Range 4.53" – 18.88"

### ROLL FORMED V-CLAMP

300-Series SS Partial Outer Band  
300-Series SS Continuous V-Retainer  
Corrosion and Heat-Resistant Steels



ROLL FORMED V-INSERT CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
001114	0373 0602 115	4.53	115.1	75 in.-lb.	38°	0.069	1.75	0.262	6.65	0.141	3.58
001107-001	0373 0601 115	4.53	115.1	75 in.-lb.	38°	0.050	1.27	0.262	6.65	0.141	3.58
001107	0373 0602 130	5.12	130.1	75 in.-lb.	38°	0.050	1.27	0.262	6.65	0.141	3.58
001106	0373 0601 130	5.12	130.1	75 in.-lb.	40°	0.069	1.75	0.286	7.26	0.144	3.64
001071-005	0373 0602 142	5.59	142.0	120 in.-lb.	40°	0.050	1.27	0.262	6.65	0.141	3.58
001107-003	0373 0605 142	5.59	142.0	75 in.-lb.	38°	0.050	1.27	0.262	6.65	0.141	3.58
001096	0373 0001 143	5.62	142.8	35 in.-lb.	40°	0.040	1.02	0.169	4.29	0.174	4.42
001129	0373 0601 148	5.83	148.1	75 in.-lb.	38°	0.069	1.75	0.262	6.65	0.144	3.64
001111-001	0373 0602 171	6.73	170.9	75 in.-lb.	38°	0.069	1.75	0.207	5.26	0.172	4.38
001111	0373 0601 171	6.73	171.0	75 in.-lb.	38°	0.069	1.75	0.207	5.26	0.172	4.38
001107-005	0373 0602 177	6.97	177.0	75 in.-lb.	38°	0.050	1.27	0.262	6.65	0.141	3.58
001102-009	0373 0602 197	7.75	196.9	150 in.-lb.	38°	0.069	1.75	0.262	6.65	0.141	3.58
001107-006	0373 0601 199	7.83	198.9	75 in.-lb.	38°	0.050	1.27	0.262	6.65	0.141	3.58
001071-006	0373 0602 204	8.03	204.0	120 in.-lb.	40°	0.050	1.27	0.262	6.65	0.141	3.58
001108-001	0373 0603 204	8.03	204.0	75 in.-lb.	38°	0.069	1.75	0.262	6.65	0.157	3.99
001126	0373 0101 246	9.69	246.1	75 in.-lb.	38°	0.069	1.75	0.257	6.53	0.200	5.08
001108	0373 0601 246	9.69	246.1	75 in.-lb.	38°	0.069	1.75	0.262	6.65	0.157	3.99
001112	0373 0601 294	11.58	294.1	105 in.-lb.	37°	0.120	3.05	0.362	9.19	0.349	8.85
03730000316	0373 0000 316	12.42	315.5	221 in.-lb.	40°	0.115	2.92	0.370	9.4	0.320	8.13
100178	0373 0601 480	18.88	479.6	120 in.-lb.	26°	0.090	2.29	0.437	11.09	0.380	9.65

Note: Call for a complete list of sizes and materials.



## Flex Roll Formed V-Clamp

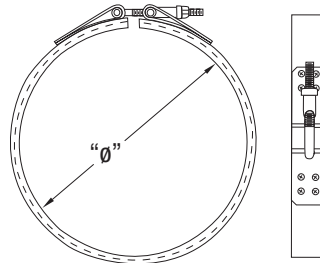
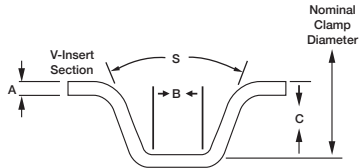


Flex-Roll-Formed V-Clamp designed for pumps and swimming pool filtration systems.

7/8" Band Width | Partial Outer Band Welded to Two V-Retainers | Added Flexible Band Segment | 28° Insert Angle | Nominal Diameter 21 1/8"

### FLEX ROLL FORMED V-CLAMP

1/4", 5/16" and 3/8" Fasteners  
7/8" Band Width in 300-Series SS  
Two 300-Series SS Inserts



FLEX ROLL FORMED V-CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
100198	0373 0101 537	21.61	536.7	75 in.-lb.	28°	0.100	2.50	1.380	35.10	0.460	11.70
100198-00	0373 0000 549	21.61	536.7	75 in.-lb.	28°	0.100	2.50	1.380	35.10	0.460	11.70

Note: Call for a complete list of sizes and materials.

## Uni-Flex V-Clamp

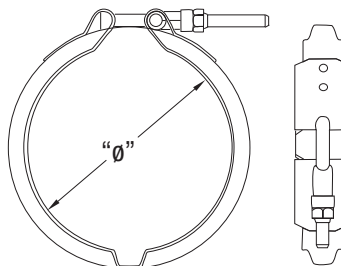
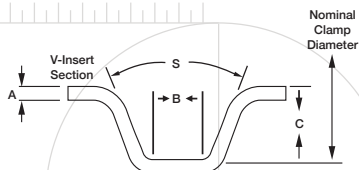


Cost-effective mounting solution for turbochargers and diesel exhaust connections.

Continuously Formed Band Having Two 180° V-Retainers | Added Hinge Point for Flexibility | 40 Degree Insert Angle | Diameter Range 4.19" – 5.88"

### UNI-FLEX V-CLAMP

1/4" or M6 Fasteners  
300-Series SS Band and Insert  
Corrosion-Resistant Steels



UNI-FLEX V-CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
001123	0373 0501 106	4.19	106.4	75 in.-lb.	40°	0.050	1.27	0.245	6.22	0.229	5.81
001010-007	0373 0500 149	5.88	149.4	75 in.-lb.	40°	0.050	1.27	0.400	10.16	0.281	7.13

Note: Call for a complete list of sizes and materials.

## E-Series V-Clamp



Economical coupling with continuously formed metal band for ducting, air, and exhaust applications.

Weld-Free Construction | Continuously Formed Band Having Two 180° V-Inserts | Diameter Range 2.81" – 21.25"

### 902 E-SERIES V-CLAMP

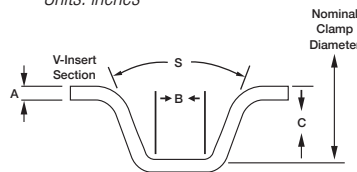
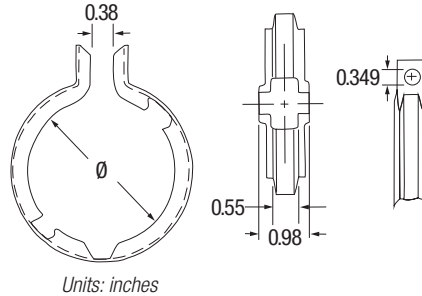
1/4", 5/16" Fasteners  
300-Series SS Insert  
40° Insert Angle

### 904 E-SERIES V-CLAMP

1/4", 5/16" Fasteners  
CRS Plated Insert  
40° Insert Angle

### 2275 E-SERIES V-CLAMP

1/4", 5/16" Fasteners  
50 in.-lb. Tightening Torque  
90° Insert Angle



902 E-SERIES V-CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
000902-281	0373 0701 071	2.81	71.4	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-334	0373 0702 085	3.34	84.8	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-384	0373 0702 098	3.84	97.5	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-434	0373 0703 110	4.34	110.2	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-484	0373 0701 123	4.84	122.9	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-534	0373 0701 136	5.34	135.6	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-584	0373 0701 148	5.84	148.3	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-634	0373 0701 161	6.34	161.0	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14
000902-684	0373 0701 174	6.84	173.7	35 in.-lb.	40°	0.060	1.52	0.207	5.26	0.281	7.14

904 E-SERIES V-CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
000904-281	0373 0702 071	2.81	71.4	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-334	0373 0703 085	3.34	84.8	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-384	0373 0703 098	3.84	97.5	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-434	0373 0704 110	4.34	110.2	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-484	0373 0702 123	4.84	122.9	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-534	0373 0702 136	5.34	135.6	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-584	0373 0702 148	5.84	148.3	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-634	0373 0702 161	6.34	161.0	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13
000904-684	0373 0702 174	6.84	173.7	35 in.-lb.	40°	0.060	1.52	0.207	5.25	0.281	7.13

2275 E-SERIES V-CLAMP		Nominal Diameter (Ø)		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
002275-013	0373 0801 365	14.38	365.1	50 in.-lb.	90°	0.075	1.905	0.375	9.52	0.410/0.440	10.40/11.10
002275-014	0373 0801 384	15.13	384.2	50 in.-lb.	90°	0.075	1.905	0.375	9.52	0.410/0.440	10.40/11.10
002275-016	0373 0801 435	17.13	435.0	50 in.-lb.	90°	0.075	1.905	0.375	9.52	0.410/0.440	10.40/11.10
002275-018	0373 0801 489	19.25	489.0	50 in.-lb.	90°	0.075	1.905	0.375	9.52	0.410/0.440	10.40/11.10
002275-020	0373 0801 540	21.25	539.8	50 in.-lb.	90°	0.075	1.905	0.375	9.52	0.410/0.440	10.40/11.10

Note: Call for a complete list of sizes and materials.



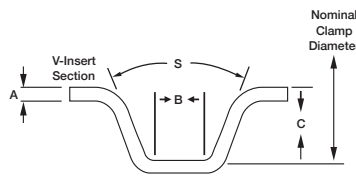
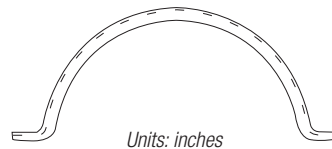


# V-Clamp Halves

Two separate V-retainers with two bolts, develops a more uniform clamping load than a single bolt clamp.

**Weld-Free Construction** | Diameter Range 2.51" – 6.12"

- V-CLAMP HALVES**
- #10, 1.4", 5/16" 3/8" Fasteners
- 300-Series SS Insert
- 410 Stainless Steel Hardware



V-CLAMP HALVES		Nominal Diameter		Installation Torque	Insert Angle (S)	Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)	
Brand PN	Global PN	in	mm			in	mm	in	mm	in	mm
002081	0373 0701 064	2.51	63.8	40 in.-lb.	42°	0.081/0.073	2.06/1.85	0.412	10.46	0.235	5.97
002081-001	0373 0701 100	3.93	99.8	40 in.-lb.	42°	0.081/0.073	2.06/1.85	0.412	10.46	0.235	5.97
002104*	0373 0702 070*	2.75	69.9	35 in.-lb.	40°	0.090	2.29	0.550	13.97	0.410	10.41
002185*	0373 0705 098*	3.87	98.3	50 in.-lb.	40°	0.090	2.29	0.582	14.78	0.410	10.41
002233**	0373 0706 098**	3.89	98.3	60 in.-lb.	40°	0.090	2.29	1.520	38.61	0.375	9.53
002233-001**	0373 0701 155**	6.12	155.5	60 in.-lb.	40°	0.090	2.29	1.520	38.61	0.375	9.53

Note: Call for a complete list of sizes and materials.

\*Hardware not included

\*\*Full Kit

## V-Coupling

- For small turbochargers, EGR systems and exhaust connections
- Two V-retainers connected with a hinge for easy installation
- Weld-free construction enhances corrosion resistance
- Corrosion/heat resistant steels
- Diameter Range 2"-7"
- 6mm Fasteners

Call our sales team to find the part number that fits your application requirements.



## Application Specific Products



### Strap Clamps

- Flat, round or special shapes with spot-welded or mechanically clinched construction
- For secure reservoirs, oil coolers, and tanks
- Steel, plated steel, corrosion-resistant, and specialty steels
- #10, 1/4", 5/16", 3/8" or metric fasteners
- Diameter range engineered to fit
- Optional two-bolt/trunnion ends
- Optional Quick Connect or Quick Release latches
- Special holes, painting, rubber lining, and other options available



### Mounting Clamps

- Convenient way to mount a cylindrical object
- For canisters filter vessels and piping
- Corrosion-Resistant Steels
- 1/4", 5/16" or metric fasteners
- Diameter range 3" and larger
- Optional clearance holes or weld nuts in base bracket
- Optional rubber lined band



### Muffler & Heat Shield Clamps

- Round or special shapes with spot welded or mechanically clinched construction
- For mufflers, heat shields, and grab bars
- Steel, plated steel, aluminized steel, and corrosion-resistant steel
- 1/4", 5/16", 3/8" or metric fasteners
- Diameter ranges are engineered to fit
- Optional weld or clinch nuts in offset brackets
- Optional Quick Connect latch
- Optional special holes





## High-Quality Clamps with Superior Craftsmanship

FiveStar, made in the USA since 1987, offers a wide variety of high-quality, heavy-duty clamp solutions to more than 50 different industries worldwide, including the Commercial Vehicle, Passenger Vehicle, and Industrial markets. FiveStar clamp products offer superior quality, service, dependability, and delivery at competitive prices. FiveStar has a long history of delivering unique solutions to tough application problems and are produced with quality procedures that were established to meet military standards resulting in superior craftsmanship in every clamp.





residential



commercial



passenger



infrastructure



industrial



## Barrel Band Clamps

FiveStar Barrel-style clamps have a low-profile design, making them ideal for tight areas and applications with limited access. The 3/4" stainless steel bands deliver durable performance and are available in a .025" standard and .040" heavy-duty thicknesses, from diameter ranges of 1" to 13.75". They are well-suited to automotive, commercial vehicle and industrial uses.



## T-Bolt Band Clamps

FiveStar T-Bolt clamps feature a heavy-duty, high-strength design and are constructed with a 3/4" stainless steel band with a shoe for even loading. They are made with 1/4"-28 hardware in both zinc-plated or all-stainless versions. Available in diameter ranges from 1" to 13.88", they are ideal for a wide variety of automotive, industrial and marine applications.



## Constant-Tension Clamps

FiveStar offers spring-regulated, constant-tension clamps in both T-Bolt and Barrel styles to meet the needs of a wide variety of applications. The innovative spring design keeps clamping loads constant, even in environments that undergo wide temperature or pressure variations. Available in zinc-plated and all-stainless versions, they are ideal for automotive, commercial vehicle, industrial and marine applications.



Spring-Loaded T-Bolt Clamp

Spring-loaded constant tension improves sealing as changes in the surrounding environment occur



Tightening options include hex nut, knob, T-handle, and wing nut designs



Quick-Release outer band for fast, easy assembly

High-quality V-inserts

Quick-Release V-Clamp

Optional electro-polish finish

## V-Band Clamps

Made of corrosion-resistant steels, FiveStar V-Band Clamps are available in general purpose and quick-release versions to meet the needs of a wide variety of applications. Generally used to connect flanged pipes, they are well-suited to service in turbocharging systems, as well as general use in diesel systems and other demanding environments. The quick release option makes these clamps perfect in applications requiring frequent service.

General Purpose V-Clamp

## Retaining and Mounting Clamps

FiveStar offers a broad portfolio of retaining and mounting clamps to meet the needs of customers in a wide range of automotive, industrial and commercial enterprises. From muffler mounting clamps to heavy-duty T-Bolt mounting systems and large strap clamps, FiveStar products deliver superior performance. They are available in a full range of materials and finishes, making them as aesthetically pleasing as they are tough.

Offered in flat, round or custom length shapes



Strap Clamp



Muffler Clamp

Band available with custom perforations and optional finishes

Quick-Release T-Bolt Mounting Clamp

Clear or yellow chromium-free bracket and hardware



## Product Portfolio Quick Reference



### V-Band Clamps

- | Three Welded Inserts
- | Diameter Range 1.06" and up
- | Corrosion Resistant Steels
- | Quick-Release and General Purpose

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### Spring T-Bolt Band Clamp

- | 0.75" Band Width
- | Diameter Range 2"– 8.5"
- | 300-Series SS Band
- | 0.25" Plated Steel T-Bolt

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### Barrel Band Clamp

- | 0.75" Band Width
- | Diameter Range 1"– 6.18"
- | 300-Series SS Band
- | CRS, Zinc-Plated Hardware

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### Quick Release Mounting Clamp

- | 0.75" Band Width
- | Diameter Range 2.187"– 9.38"
- | 300-Series SS Band, Latch/Bracket
- | Plated T-Bolt and Nut

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### Barrel Band Clamp w/Shoe

- | 0.75" Band Width
- | Diameter Range 1"– 6.18"
- | 300-Series SS Band
- | CRS, Zinc Plated Hardware

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### Muffler Mounting Clamps

- | .048" or .060" Band Thickness
- | Custom Perforations Available
- | Oval or Round Shapes
- | Annealed 300-Series SS Band

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### T-Bolt Band Clamps

- | 0.75" Band Width
- | Diameter Range 1"– 6.31"
- | 300-Series SS Band
- | 0.25" Plated Steel T-Bolt

Page 130-131



### Strap Clamps

- | 0.75" Band Width
- | Custom Lengths Available
- | 300-Series SS Band
- | Plated Hardware

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# V-Band Clamp



High-quality V-inserts welded to a band clamp with full round edges.

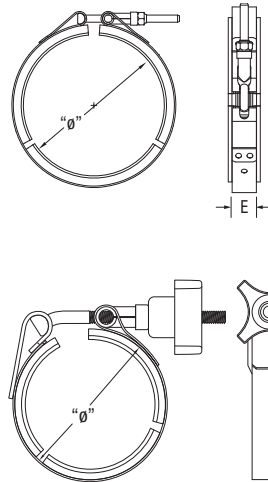
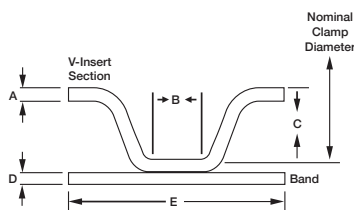
0.63", 0.88" or 0.75" Band Widths | Three-Inserts | 40° Insert Angle | Corrosion Resistant Steels | Nominal Diameter Range 1.75" – 10.69"

## GENERAL PURPOSE V-CLAMP

0.25" or 5/16" Hardware  
0.63", 0.88" and 0.75" Band Widths  
Corrosion Resistant Steel

## QUICK RELEASE V-CLAMP

0.25" Hardware  
0.63", 0.88" and 0.75" Band Widths  
Plastic Knob with Brass Insert or Nut



General Purpose



Quick Release

GENERAL PURPOSE V-CLAMP		Nominal Diameter (Ø)		Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
2026-1	0373 0001 044	1.75	44.5	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.63	0.625	15.87
2000-4	0373 0004 080	3.15	80.0	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.88	0.750	19.05
2017	0373 0004 082	3.21	81.5	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.88	0.750	19.05
2013-4	0373 0001 086	3.38	85.9	0.077	1.95	0.207	5.25	0.281	7.13	0.040	1.01	0.875	22.22
2013-1	0373 0013 097	3.82	97.0	0.077	1.95	0.207	5.25	0.281	7.13	0.040	1.01	0.875	22.22
3002-1	0373 0012 097	3.82	97.0	0.077	1.95	0.207	5.25	0.281	7.13	0.050	1.27	0.875	22.22
2002-1	0373 0003 099	3.88	98.6	0.050	1.27	0.400	10.16	0.281	7.13	0.040	1.01	0.875	22.22
3010-1	0373 0010 097	3.96	100.6	0.077	1.95	0.207	5.25	0.281	7.13	0.062	1.57	0.875	22.22
2000-20	0373 0000 103	4.04	102.6	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.88	0.750	19.05
2002-2	0373 0000 108	4.25	108.0	0.050	1.27	0.400	10.16	0.281	7.13	0.040	1.01	0.875	22.22
2013-5	0373 0001 109	4.31	109.5	0.077	1.95	0.207	5.25	0.281	7.13	0.040	1.01	0.875	22.22
2000-5	0373 0009 114	4.50	114.3	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.88	0.750	19.05
2001	0373 0009 117	4.61	117.1	0.050	1.27	0.156	3.96	0.281	7.13	0.035	0.88	0.750	19.05
2002-4	0373 0015 121	4.75	120.7	0.050	1.27	0.400	10.16	0.281	7.13	0.040	1.01	0.875	22.22
2013-3	0373 0003 122	4.81	122.2	0.077	1.95	0.207	5.25	0.281	7.13	0.040	1.01	0.875	22.22
2000-1	0373 0004 133	5.25	133.4	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.88	0.750	19.05
3014	0373 0006 148	5.81	147.6	0.050	1.27	0.207	5.25	0.281	7.13	0.062	1.57	0.875	22.22
2002-3	0373 0007 149	5.88	149.4	0.050	1.27	0.400	10.16	0.281	7.13	0.040	1.01	0.875	22.22
2000-11	0373 0004 150	5.90	149.9	0.050	1.27	0.262	6.65	0.141	3.58	0.035	0.88	0.750	19.05
2036-2	0373 0002 152	6.00	152.4	0.050	1.27	0.156	3.96	0.281	7.13	0.035	0.88	0.750	19.05
2022-1	0373 0002 243	9.56	242.8	0.050	1.27	0.530	13.46	0.215	5.46	0.035	0.88	0.750	19.05
2022-2	0373 0003 243	9.56	242.8	0.050	1.27	0.550	13.97	0.281	7.13	0.035	0.88	0.750	19.05
3026-2	0373 0001 271	10.69	271.5	0.050	1.27	0.207	5.25	0.281	7.13	0.062	1.57	0.875	22.22

QUICK RELEASE V-CLAMP		Nominal Diameter (Ø)		Insert Thickness (A)		Insert Apex Width (B)		Insert Depth (C)		Band Thickness (D)		Band Width (E)	
Brand PN	Global PN	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
20026-1 <sup>(1)</sup>	0373 0000 044 <sup>(1)</sup>	1.75	44.5	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.63	0.625	15.87
20000-1A <sup>(2)</sup>	0373 0000 053 <sup>(2)</sup>	2.08	52.8	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.63	0.750	19.05
20060-3 <sup>(3)</sup>	0373 0004 078 <sup>(3)</sup>	3.09	78.5	0.060	1.52	0.207	5.25	0.281	7.13	0.040	1.01	0.750	19.05
20000-3A <sup>(4)</sup>	0373 0000 080 <sup>(4)</sup>	3.15	80.0	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.63	0.750	19.05
20000-4A <sup>(4)</sup>	0373 0003 093 <sup>(4)</sup>	3.67	93.2	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.63	0.750	19.05
20065-1N <sup>(6)</sup>	0373 0008 117 <sup>(6)</sup>	4.62	117.4	0.050	1.27	0.210	5.33	0.281	7.13	0.025	0.63	0.750	19.05
20039-2E <sup>(4)</sup>	0373 0001 127 <sup>(4)</sup>	5.00	127.0	0.060	1.52	0.415	10.54	0.281	7.13	0.040	1.01	0.875	22.22
20036-3 <sup>(5)</sup>	0373 0002 144 <sup>(5)</sup>	5.65	143.5	0.050	1.27	0.262	6.65	0.141	3.58	0.025	0.63	0.625	15.87
20004-1HD <sup>(4)</sup>	0373 0005 148 <sup>(4)</sup>	5.81	147.6	0.077	1.95	0.207	5.25	0.281	7.13	0.040	1.01	0.875	22.22
20022-1 <sup>(3)</sup>	0373 0007 150 <sup>(3)</sup>	5.92	150.4	0.050	1.27	0.400	10.16	0.281	7.13	0.025	0.63	0.750	19.05
20023-1 <sup>(3)</sup>	0373 0000 243 <sup>(3)</sup>	9.56	242.8	0.050	1.27	0.530	13.46	0.215	5.46	0.035	0.88	0.750	19.05

Note: Call for a complete list of sizes and materials.

<sup>1</sup> 300-Series SS Bent T-Bolt   <sup>2</sup> Electropolished, 300-Series SS Bent T-Bolt   <sup>3</sup> 300-Series SS T-Bolt   <sup>4</sup> Electropolished, 300-Series SS T-Bolt   <sup>5</sup> 300-Series SS Hardware  
<sup>6</sup> No T-Bolt, must purchase separately



# Barrel Band Clamp

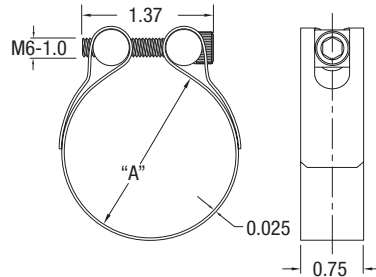


Heavy-duty, low-profile barrel-style hose clamp for automotive, commercial and industrial applications.

0.75" Band Width | CRS, Zinc-Plated Hardware | M6 Barrel Nut and Trunion | Diameter Range 1.06"– 6.19"

## BARREL BAND CLAMP

M6 Barrel Nut and Trunion  
0.75" Band Width  
CRS, Zinc-Plated Hardware



Nominal Diameter		BARREL BAND CLAMP		inches (A)		mm	
inches	mm	Brand PN	Global PN	min	max	min	max
1.06	27	27-49M	0363 0002 027	1.06	1.19	26.92	30.23
1.13	29	27-50M	0363 0000 029	1.13	1.25	28.45	31.75
1.25	32	27-51M	0363 0001 030	1.19	1.31	30.23	33.78
1.31	33	27-52M	0363 0003 032	1.25	1.38	31.75	35.31
1.31	33	27-53M	0363 0005 033	1.31	1.44	33.27	36.83
1.38	35	27-54M	0363 0005 035	1.38	1.50	35.05	38.61
1.44	37	27-55M	0363 0007 037	1.44	1.56	36.58	40.13
1.50	38	27-56M	0363 0007 038	1.50	1.63	38.10	41.66
1.56	40	27-57M	0363 0006 040	1.56	1.69	39.62	43.18
1.63	41	27-58M	0363 0006 041	1.63	1.88	41.40	47.75
1.69	43	27-59M	0363 0008 044	1.69	1.94	42.93	49.28
1.75	44	27-60M	0363 0008 046	1.75	2.00	44.45	50.80
1.81	46	27-61M	0363 0005 048	1.81	2.06	45.97	52.32
1.88	48	27-62M	0363 0003 050	1.88	2.13	47.75	54.10
1.94	49	27-63M	0363 0005 051	1.94	2.19	49.28	55.63
2.00	51	27-64M	0363 0004 052	2.00	2.25	50.80	57.15
2.06	52	27-65M	0363 0003 054	2.06	2.31	52.32	58.67
2.13	54	27-66M	0363 0002 054	2.13	2.38	54.10	60.45
2.19	56	27-67M	0363 0005 057	2.19	2.50	55.63	63.50
2.25	57	27-68M	0363 0004 059	2.25	2.56	57.15	65.02
2.38	60	27-69M	0363 0003 061	2.31	2.63	58.67	66.55
2.38	61	27-70M	0363 0025 064	2.38	2.69	60.45	68.33
2.44	62	27-71M	0363 0011 064	2.44	2.75	61.98	69.85
2.50	64	27-72M	0363 0001 066	2.50	2.81	63.50	71.37
2.56	65	27-73M	0363 0005 067	2.56	2.88	65.02	72.90
2.69	68	27-74M	0363 0002 069	2.63	2.94	66.80	74.68
2.69	69	27-75M	0363 0003 071	2.69	3.00	68.33	76.20
2.75	70	27-76M	0363 0003 072	2.75	3.06	69.85	77.72
2.88	73	27-77M	0363 0000 074	2.81	3.13	71.37	79.25
2.94	75	27-78M	0363 0001 075	2.88	3.19	73.15	81.03

Nominal Diameter		BARREL BAND CLAMP		inches (A)		mm	
inches	mm	Brand PN	Global PN	min	max	min	max
3.00	77	27-79M	0363 0009 077	2.94	3.25	74.68	82.55
3.00	78	27-80M	0363 0005 079	3.00	3.31	76.20	84.07
3.13	80	27-81M	0363 0015 082	3.06	3.38	77.72	85.60
3.25	82	27-82M	0363 0010 082	3.13	3.44	79.50	87.38
3.25	83	27-83M	0363 0011 085	3.19	3.50	81.03	88.90
3.31	85	27-84M	0363 0005 085	3.25	3.56	82.55	90.42
3.38	86	27-85M	0363 0006 086	3.31	3.63	84.07	92.20
3.44	88	27-86M	0363 0000 088	3.38	3.69	85.85	93.73
3.50	90	27-87M	0363 0008 090	3.44	3.75	87.38	95.25
3.56	91	27-88M	0363 0003 091	3.50	3.81	88.90	96.77
3.69	93	27-89M	0363 0003 093	3.56	3.88	90.42	98.55
3.69	94	27-90M	0363 0005 094	3.63	3.94	92.20	100.08
3.75	96	27-91M	0363 0010 096	3.69	4.00	93.73	101.60
3.88	98	27-92M	0363 0008 098	3.75	4.06	95.25	103.12
3.88	99	27-93M	0363 0005 099	3.81	4.13	96.77	104.65
4.00	101	27-94M	0363 0016 102	3.88	4.19	98.55	106.43
4.06	103	27-95M	0363 0007 102	3.94	4.25	100.08	107.95
4.13	104	27-96M	0363 0007 104	4.00	4.19	101.60	106.17
4.13	105	27-97M	0363 0000 105	4.06	4.25	103.12	107.70
4.19	107	27-98M	0363 0012 107	4.13	4.31	104.65	109.22
4.25	108	27-99M	0363 0012 109	4.19	4.38	106.43	111.00
4.31	110	27-100M	0363 0014 110	4.25	4.44	107.95	112.52
4.63	117	27-104M	0363 0008 117	4.50	4.69	114.30	118.87
4.81	123	27-108M	0363 0005 123	4.75	4.94	120.65	125.22
5.06	129	27-112M	0363 0005 129	5.00	5.19	127.00	131.57
5.38	136	27-116M	0363 0004 136	5.25	5.44	133.35	137.92
5.63	142	27-120M	0363 0002 142	5.50	5.69	139.70	144.27
5.81	148	27-124M	0363 0001 148	5.75	5.94	146.05	150.62
6.13	155	27-128M	0363 0002 155	6.00	6.19	152.40	156.97

Note: Call for a complete list of sizes and materials and to discuss unique requirements.

# Barrel Band Clamp with Shoe

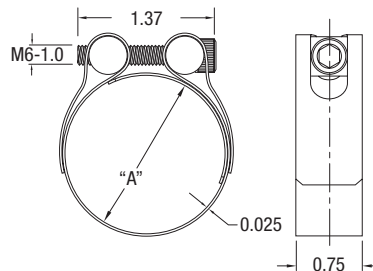


Heavy-duty, low-profile barrel-style hose clamp with shoe for automotive, commercial and industrial applications.

0.75" Band Width | CRS, Zinc-Plated Hardware | 300-Series SS Band and Shoe | Diameter Range 1.06"– 6.19"

## BARREL BAND CLAMP WITH SHOE

M6 Barrel Nut and Trunnion  
300-Series Stainless Steel Band & Shoe  
CRS, Zinc-Plated Hardware



Nominal Diameter		BARREL BAND CLAMP WITH SHOE		inches (A)		mm	
inches	mm	Brand PN	Global PN	min	max	min	max
1.06	27	27-49MSH	0363 0000 027	1.06	1.19	26.92	30.23
1.13	29	27-50MSH	0363 0006 030	1.13	1.25	28.45	31.75
1.25	32	27-51MSH	0363 0005 032	1.19	1.31	30.23	33.78
1.31	33	27-52MSH	0363 0006 034	1.25	1.38	31.75	35.31
1.31	33	27-53MSH	0363 0002 033	1.31	1.44	33.27	36.83
1.38	35	27-54MSH	0363 0003 035	1.38	1.50	35.05	38.61
1.44	37	27-55MSH	0363 0000 037	1.44	1.56	36.58	40.13
1.50	38	27-56MSH	0363 0008 040	1.50	1.63	38.10	41.66
1.56	40	27-57MSH	0363 0000 040	1.56	1.69	39.62	43.18
1.63	41	27-58MSH	0363 0000 041	1.63	1.88	41.40	47.75
1.69	43	27-59MSH	0363 0000 043	1.69	1.94	42.93	49.28
1.75	44	27-60MSH	0363 0003 044	1.75	2.00	44.45	50.80
1.81	46	27-61MSH	0363 0002 046	1.81	2.06	45.97	52.32
1.88	48	27-62MSH	0363 0002 048	1.88	2.13	47.75	54.10
1.94	49	27-63MSH	0363 0001 049	1.94	2.19	49.28	55.63
2.00	51	27-64MSH	0363 0002 051	2.00	2.25	50.80	57.15
2.06	52	27-65MSH	0363 0000 052	2.06	2.31	52.32	58.67
2.13	54	27-66MSH	0363 0001 054	2.13	2.38	54.10	60.45
2.19	56	27-67MSH	0363 0000 056	2.19	2.50	55.63	63.50
2.25	57	27-68MSH	0363 0002 057	2.25	2.56	57.15	65.02
2.38	60	27-69MSH	0363 0008 063	2.31	2.63	58.67	66.55
2.38	61	27-70MSH	0363 0026 064	2.38	2.69	60.45	68.33
2.44	62	27-71MSH	0363 0000 062	2.44	2.75	61.98	69.85
2.50	64	27-72MSH	0363 0003 064	2.50	2.81	63.50	71.37
2.56	65	27-73MSH	0363 0001 065	2.56	2.88	65.02	72.90
2.69	68	27-74MSH	0363 0014 071	2.63	2.94	66.80	74.68
2.69	69	27-75MSH	0363 0012 072	2.69	3.00	68.33	76.20
2.75	70	27-76MSH	0363 0002 070	2.75	3.06	69.85	77.72
2.88	73	27-77MSH	0363 0010 075	2.81	3.13	71.37	79.25
2.94	75	27-78MSH	0363 0016 077	2.88	3.19	73.15	81.03

Nominal Diameter		BARREL BAND CLAMP WITH SHOE		inches (A)		mm	
inches	mm	Brand PN	Global PN	min	max	min	max
3.00	77	27-79MSH	0363 0011 079	2.94	3.25	74.68	82.55
3.00	78	27-80MSH	0363 0011 080	3.00	3.31	76.20	84.07
3.13	80	27-81MSH	0363 0016 082	3.06	3.38	77.72	85.60
3.25	82	27-82MSH	0363 0017 083	3.13	3.44	79.50	87.38
3.25	83	27-83MSH	0363 0012 085	3.19	3.50	81.03	88.90
3.31	85	27-84MSH	0363 0011 086	3.25	3.56	82.55	90.42
3.38	86	27-85MSH	0363 0009 088	3.31	3.63	84.07	92.20
3.44	88	27-86MSH	0363 0016 090	3.38	3.69	85.85	93.73
3.50	90	27-87MSH	0363 0009 091	3.44	3.75	87.38	95.25
3.56	91	27-88MSH	0363 0011 093	3.50	3.81	88.90	96.77
3.69	93	27-89MSH	0363 0014 094	3.56	3.88	90.42	98.55
3.69	94	27-90MSH	0363 0015 096	3.63	3.94	92.20	100.08
3.75	96	27-91MSH	0363 0015 098	3.69	4.00	93.73	101.60
3.88	98	27-92MSH	0363 0014 099	3.75	4.06	95.25	103.12
3.88	99	27-93MSH	0363 0009 101	3.81	4.13	96.77	104.65
4.00	101	27-94MSH	0363 0017 102	3.88	4.19	98.55	106.43
4.06	103	27-95MSH	0363 0010 104	3.94	4.25	100.08	107.95
4.13	104	27-96MSH	0363 0011 104	4.00	4.19	101.60	106.17
4.13	105	27-97MSH	0363 0001 105	4.06	4.25	103.12	107.70
4.19	107	27-98MSH	0363 0013 107	4.13	4.31	104.65	109.22
4.25	108	27-99MSH	0363 0013 109	4.19	4.38	106.43	111.00
4.31	110	27-100MSH	0363 0015 110	4.25	4.44	107.95	112.52
4.63	117	27-104MSH	0363 0009 117	4.50	4.69	114.30	118.87
4.81	123	27-108MSH	0363 0006 123	4.75	4.94	120.65	125.22
5.06	129	27-112MSH	0363 0006 129	5.00	5.19	127.00	131.57
5.38	136	27-116MSH	0363 0005 136	5.25	5.44	133.35	137.92
5.63	142	27-120MSH	0363 0003 142	5.50	5.69	139.70	144.27
5.81	148	27-124MSH	0363 0002 148	5.75	5.94	146.05	150.62
6.13	155	27-128MSH	0363 0003 155	6.00	6.19	152.40	156.97

Note: Call for a complete list of sizes and materials and to discuss unique requirements.

# T-Bolt Clamp

Heavy-duty, high-strength T-Bolt with shoe.

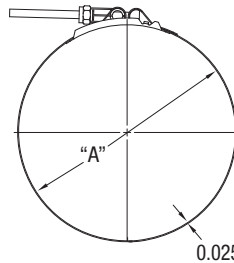


0.75" Band Width | 0.25" Plated Steel Bolt | Available with Bridge | Diameter Range 1" – 6.31"

**T-BOLT CLAMP**  
0.25" Plated Steel T-Bolt  
0.75" 300-Series SS Band

**T-BOLT CLAMP W / BRIDGE**  
0.25" Plated Steel T-Bolt w/Bridge  
0.75" 300-Series SS Band

**ALL SS T-BOLT CLAMP**  
0.25" 300-Series SS T-Bolt  
0.75" 300-Series SS Band



Nominal Diameter		T-BOLT CLAMP		inches		mm	
inches	mm	Brand PN	Global PN	min	max	min	max
1.06	27	220-48	0363 0002 027	1.00	1.13	25.40	28.70
1.13	28	220-49	0363 0000 029	1.06	1.19	26.92	30.23
1.13	29	220-50	0363 0001 030	1.13	1.25	28.45	31.75
1.25	32	220-51	0363 0003 032	1.19	1.31	30.23	33.78
1.31	33	220-52	0363 0005 033	1.25	1.38	31.75	35.31
1.38	35	220-53	0363 0005 035	1.31	1.44	33.27	36.83
1.44	36	220-54	0363 0007 037	1.38	1.50	35.05	38.61
1.50	38	220-55	0363 0007 038	1.44	1.56	36.58	40.13
1.56	40	220-56	0363 0006 040	1.50	1.63	38.10	41.66
1.63	41	220-57	0363 0006 041	1.56	1.69	39.62	43.18
1.75	44	200-58	0363 0008 044	1.63	1.88	41.40	47.75
1.81	46	200-59	0363 0008 046	1.69	1.94	42.93	49.28
1.88	47	200-60	0363 0005 048	1.75	2.00	44.45	50.80
2.00	51	200-61	0363 0009 049	1.81	2.06	45.97	52.32
2.06	52	200-62	0363 0005 051	1.88	2.13	47.75	54.10
2.06	53	200-63	0363 0004 052	1.94	2.19	49.28	55.63
2.13	54	200-64	0363 0003 054	2.00	2.25	50.80	57.15
2.19	56	200-65	0363 0010 056	2.06	2.31	52.32	58.67
2.25	57	200-66	0363 0005 057	2.13	2.38	54.10	60.45
2.31	59	200-67	0363 0004 059	2.19	2.50	55.63	63.50
2.38	61	200-68	0363 0003 061	2.25	2.56	57.15	65.02
2.50	63	200-69	0363 0000 063	2.31	2.63	58.67	66.55
2.50	64	200-70	0363 0011 064	2.38	2.69	60.45	68.33
2.56	66	200-71	0363 0001 066	2.44	2.75	61.98	69.85
2.63	67	200-72	0363 0005 067	2.50	2.81	63.50	71.37
2.69	69	200-73	0363 0002 069	2.56	2.88	65.02	72.90
2.81	71	200-74	0363 0003 071	2.63	2.94	66.80	74.68
2.81	72	200-75	0363 0003 072	2.69	3.00	68.33	76.20
2.94	74	200-76	0363 0000 074	2.75	3.06	69.85	77.72
2.94	75	200-77	0363 0001 075	2.81	3.13	71.37	79.25

Nominal Diameter		T-BOLT CLAMP		inches		mm	
inches	mm	Brand PN	Global PN	min	max	min	max
3.00	77	200-78	0363 0009 077	2.88	3.19	73.15	81.03
3.13	79	200-79	0363 0005 079	2.94	3.25	74.68	82.55
3.13	80	200-80	0363 0008 079	3.00	3.31	76.20	84.07
3.25	82	200-81	0363 0010 082	3.06	3.38	77.72	85.60
3.25	83	200-82	0363 0013 083	3.13	3.44	79.50	87.38
3.31	85	200-83	0363 0005 085	3.19	3.50	81.03	88.90
3.38	86	200-84	0363 0006 086	3.25	3.56	82.55	90.42
3.44	88	200-85	0363 0000 088	3.31	3.63	84.07	92.20
3.50	90	200-86	0363 0008 090	3.38	3.69	85.85	93.73
3.56	91	200-87	0363 0003 091	3.44	3.75	87.38	95.25
3.69	93	200-88	0363 0003 093	3.50	3.81	88.90	96.77
3.69	94	200-89	0363 0005 094	3.56	3.88	90.42	98.55
3.75	96	200-90	0363 0010 096	3.63	3.94	92.20	100.08
3.88	98	200-91	0363 0008 098	3.69	4.00	93.73	101.60
3.88	99	200-92	0363 0005 099	3.75	4.06	95.25	103.12
4.00	101	200-93	0363 0002 101	3.81	4.13	96.77	104.65
4.00	102	200-94	0363 0007 102	3.88	4.19	98.55	106.43
4.13	104	200-95	0363 0007 104	3.94	4.25	100.08	107.95
4.19	106	200-96	0363 0004 106	4.00	4.31	101.60	109.47
4.25	108	200-97	0363 0009 107	4.06	4.38	103.12	111.00
4.31	109	200-98	0363 0005 109	4.13	4.44	104.65	112.78
4.31	110	200-99	0363 0005 110	4.19	4.50	106.43	114.30
4.38	112	200-100	0363 0015 112	4.25	4.56	107.95	115.82
4.63	117	200-104	0363 0009 118	4.50	4.81	114.30	122.17
4.94	125	200-108	0363 0000 125	4.75	5.06	120.65	128.52
5.06	129	200-112	0363 0010 131	5.00	5.31	127.00	134.87
5.38	137	200-116	0363 0008 137	5.25	5.56	133.35	141.22
5.69	144	200-120	0363 0002 144	5.50	5.81	139.70	147.57
5.81	148	200-124	0363 0008 150	5.75	6.06	146.05	153.92
6.13	155	200-128	0363 0007 156	6.00	6.31	152.40	160.27

Note: Call for a complete list of sizes and materials.



# Spring-Loaded T-Bolt Band Clamp



Heavy-duty, spring-loaded T-Bolt clamp for constant tension performance.

0.75" Band Width | 0.25" Plated Steel Bolt | With or Without Bridge | Diameter Range 2.06" – 6.31"

### SPRING T-BOLT

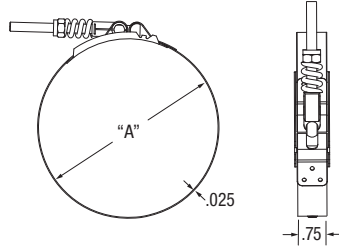
0.25" Plated Steel T-Bolt  
0.75" Stainless Steel Band

### SPRING T-BOLT W/BRIDGE

0.25" Plated Steel T-Bolt w/Bridge  
0.75" Stainless Steel Band

### ALL 316 SS SPRING T-BOLT

0.25" 316 Stainless Steel T-Bolt  
0.75" 316 Stainless Steel Band



Nominal Diameter		SPRING T-BOLT		SPRING T-BOLT W / BRIDGE		ALL 316 SS SPRING T-BOLT		inches		mm	
inches	mm	Brand PN	Global PN	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
2.19	56	250-65	0363 0005 056	250-65B	0363 0002 055	250-65-316	0363 0003 056	2.06	2.31	52.32	58.67
2.25	57	250-66	0363 0008 057	250-66B	0363 0009 057	250-66-316	0363 0010 057	2.13	2.38	54.10	60.45
2.31	59	250-67	0363 0007 059	250-67B	0363 0008 060	250-67-316	0363 0009 060	2.19	2.50	55.63	63.50
2.38	60	250-68	0363 0007 060	250-68B	0363 0011 061	250-68-316	0363 0012 061	2.25	2.56	57.15	65.02
2.50	63	250-69	0363 0003 063	250-69B	0363 0002 063	250-69-316	0363 0005 063	2.31	2.63	58.67	66.55
2.50	64	250-70	0363 0022 064	250-70B	0363 0012 064	250-70-316	0363 0023 064	2.38	2.69	60.45	68.33
2.56	66	250-71	0363 0003 066	250-71B	0363 0007 066	250-71-316	0363 0007 079	2.44	2.75	61.98	69.85
2.63	67	250-72	0363 0008 067	250-72B	0363 0009 067	250-72-316	0363 0010 067	2.50	2.81	63.50	71.37
2.63	69	250-73	0363 0005 069	250-73B	0363 0003 069	250-73-316	0363 0010 069	2.56	2.87	65.02	72.90
2.69	71	250-74	0363 0010 071	250-74B	0363 0005 071	250-74-316	0363 0011 071	2.63	2.94	66.80	74.68
2.81	72	250-75	0363 0007 072	250-75B	0363 0005 072	250-75-316	0363 0010 072	2.69	3.00	68.33	76.20
2.81	74	250-76	0363 0003 074	250-76B	0363 0014 074	250-76-316	0363 0002 074	2.75	3.06	69.85	77.72
2.94	75	250-77	0363 0003 075	250-77B	0363 0000 075	250-77-316	0363 0007 075	2.81	3.13	71.37	79.25
3.00	77	250-78	0363 0008 077	250-78B	0363 0013 077	250-78-316	0363 0014 077	2.88	3.19	73.15	81.03
3.13	79	250-79	0363 0004 079	250-79B	0363 0002 079	250-79-316	0363 0003 079	2.94	3.25	74.68	82.55
3.13	80	250-80	0363 0005 080	250-80B	0363 0007 080	250-80-316	0363 0008 080	3.00	3.31	76.20	84.07
3.25	82	250-81	0363 0009 082	250-81B	0363 0007 082	250-81-316	0363 0012 082	3.06	3.38	77.72	85.60
3.25	83	250-82	0363 0008 083	250-82B	0363 0014 083	250-82-316	0363 0015 083	3.13	3.44	79.50	87.38
3.31	85	250-83	0363 0003 085	250-83B	0363 0002 085	250-83-316	0363 0009 085	3.19	3.50	81.03	88.90
3.38	86	250-84	0363 0005 086	250-84B	0363 0003 086	250-84-316	0363 0004 086	3.25	3.56	82.55	90.42
3.44	88	250-85	0363 0003 088	250-85B	0363 0005 088	250-85-316	0363 0007 088	3.31	3.63	84.07	92.20
3.50	90	250-86	0363 0012 090	250-86B	0363 0013 090	250-86-316	0363 0014 090	3.38	3.69	85.85	93.73
3.56	91	250-87	0363 0002 091	250-87B	0363 0005 091	250-87-316	0363 0001 091	3.44	3.75	87.38	95.25
3.69	93	250-88	0363 0002 093	250-88B	0363 0007 093	250-88-316	0363 0008 093	3.50	3.81	88.90	96.77
3.69	94	250-89	0363 0003 094	250-89B	0363 0010 094	250-89-316	0363 0011 094	3.56	3.88	90.42	98.55
3.75	96	250-90	0363 0009 096	250-90B	0363 0007 096	250-90-316	0363 0012 096	3.63	3.94	92.20	100.08
3.88	98	250-91	0363 0010 098	250-91B	0363 0011 098	250-91-316	0363 0012 098	3.69	4.00	93.73	101.60
3.88	99	250-92	0363 0003 094	250-92B	0363 0011 099	250-92-316	0363 0002 099	3.75	4.06	95.25	103.12
4.00	101	250-93	0363 0003 101	250-93B	0363 0004 101	250-93-316	0363 0005 101	3.81	4.13	96.77	104.65
4.00	102	250-94	0363 0012 102	250-94B	0363 0013 102	250-94-316	0363 0014 102	3.88	4.19	98.55	106.43
4.13	104	250-95	0363 0005 104	250-95B	0363 0003 104	250-95-316	0363 0004 104	3.94	4.25	100.08	107.95
4.19	106	250-96	0363 0003 106	250-96B	0363 0002 106	250-96-316	0363 0006 106	4.00	4.31	101.60	109.47
4.19	107	250-97	0363 0003 107	250-97B	0363 0002 107	250-97-316	0363 0007 107	4.06	4.38	103.12	111.00
4.31	109	250-98	0363 0003 109	250-98B	0363 0002 109	250-98-316	0363 0010 109	4.13	4.44	104.65	112.78
4.31	110	250-99	0363 0010 110	250-99B	0363 0011 110	250-99-316	0363 0012 110	4.19	4.50	106.43	114.30
4.38	112	250-100	0363 0008 112	250-100B	0363 0014 112	250-100-316	0363 0007 112	4.25	4.56	107.95	115.82
4.63	118	250-104	0363 0005 118	250-104B	0363 0007 118	250-104-316	0363 0008 118	4.50	4.81	114.30	122.17
4.94	125	250-108	0363 0004 125	250-108B	0363 0005 125	250-108-316	0363 0007 125	4.75	5.06	120.65	128.52
5.13	131	250-112	0363 0007 131	250-112B	0363 0008 131	250-112-316	0363 0009 131	5.00	5.31	127.00	134.87
5.38	137	250-116	0363 0012 137	250-116B	0363 0014 137	250-116-316	0363 0015 137	5.25	5.56	133.35	141.22
5.69	144	250-120	0363 0008 144	250-120B	0363 0009 144	250-120-316	0363 0010 144	5.50	5.81	139.70	147.57
5.81	148	250-124	0363 0003 150	250-124B	0363 0004 150	250-124-316	0363 0007 150	5.75	6.06	146.05	153.92
6.13	155	250-128	0363 0001 156	250-128B	0363 0005 156	250-128-316	0363 0006 156	6.00	6.31	152.40	160.27

Note: Call for a complete list of sizes and materials.

# Quick-Release Mounting Clamp

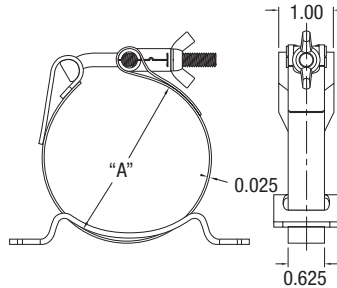


Quick-Release T-Bolt mounting clamps available with a wing nut or nylon insert lock nut.

0.625" Band Width | 0.25" Plated T-Bolt and Nut | 300-Series Stainless Steel Latch & Bracket | Diameter Range 2.19" – 6.25"

**T-BOLT MOUNTING W/ WING NUT**  
 0.25" Plated Bolt and Nut  
 0.625" Band Width  
 0.25"-1" 300-Series SS Latch

**T-BOLT MOUNTING W/NYLOCK NUT**  
 0.25" Plated Bolt and Nut  
 0.625" Band Width  
 0.25"-1" 300-Series SS Latch



Nominal Diameter		T-BOLT MOUNTING W / WING NUT		T-BOLT MOUNTING W / NYLOCK NUT		inches		mm	
inches	mm	Brand PN	Global PN	Brand PN	Global PN	min	max	min	max
2.31	59	242-67	0375 0001 059	453-67	0375 0000 059	2.19	2.44	55.63	61.98
2.38	60	242-68	0375 0001 060	453-68	0375 0000 060	2.25	2.50	57.15	63.50
2.44	62	242-69	0363 0003 062	453-69	0375 0000 063	2.31	2.56	58.67	65.02
2.50	63	242-70	0375 0001 064	453-70	0375 0000 064	2.38	2.63	60.45	66.80
2.56	65	242-71	0375 0001 065	453-71	0375 0000 066	2.44	2.69	61.98	68.33
2.63	67	242-72	0375 0001 067	453-72	0375 0000 067	2.50	2.75	63.50	69.85
2.69	68	242-73	0375 0000 068	453-73	0375 0000 070	2.56	2.81	65.02	71.37
2.75	70	242-74	0375 0001 070	453-74	0375 0001 071	2.63	2.88	66.80	73.15
2.81	71	242-75	0375 0000 072	453-75	0375 0000 071	2.69	2.94	68.33	74.68
2.88	73	242-76	0375 0000 068	453-76	0375 0000 074	2.75	3.00	69.85	76.20
2.94	74	242-77	0375 0001 075	453-77	0375 0000 075	2.81	3.06	71.37	77.72
3.00	75	242-78	0375 0000 076	453-78	0363 0002 076	2.88	3.13	73.15	79.50
3.06	78	242-79	0375 0001 078	453-79	0375 0000 078	2.94	3.19	74.68	81.03
3.13	79	242-80	0375 0001 079	453-80	0375 0000 079	3.00	3.25	76.20	82.55
3.19	81	242-81	0375 0002 081	453-81	0375 0001 081	3.06	3.31	77.72	84.07
3.25	83	242-82	0375 0002 083	453-82	0375 0001 083	3.13	3.38	79.50	85.85
3.31	84	242-83	0375 0000 084	453-83	0375 0000 085	3.19	3.44	81.03	87.38
3.38	85	242-84	0375 0001 086	453-84	0375 0000 086	3.25	3.50	82.55	88.90
3.44	87	242-85	0375 0000 087	453-85	0375 0000 088	3.31	3.56	84.07	90.42
3.50	89	242-86	0375 0003 089	453-86	0375 0004 089	3.38	3.63	85.85	92.20
3.56	90	242-87	0375 0001 091	453-87	0375 0000 091	3.44	3.69	87.38	93.73
3.63	92	242-88	0375 0003 092	453-88	0375 0002 092	3.50	3.75	88.90	95.25
3.69	93	242-89	0375 0001 094	453-89	0375 0000 094	3.56	3.81	90.42	96.77
3.75	95	242-90	0375 0000 095	453-90	0375 0000 096	3.63	3.88	92.20	98.55
3.81	97	242-91	0375 0001 097	453-91	0375 0000 098	3.69	3.94	93.73	100.08
3.88	98	242-92	0375 0001 098	453-92	0375 0000 099	3.75	4.00	95.25	101.60
3.94	99	242-93	0375 0000 100	453-93	0375 0001 101	3.81	4.06	96.77	103.12
4.00	102	242-94	0375 0000 102	453-94	0363 0004 102	3.88	4.13	98.55	104.90
4.06	104	242-95	0375 0000 103	453-95	0363 0002 104	3.94	4.19	100.08	106.43
4.13	105	242-96	0375 0001 105	453-96	0375 0000 105	4.00	4.25	101.60	107.95
4.19	106	242-97	0375 0006 106	453-97	0375 0005 106	4.06	4.31	103.12	109.47
4.25	108	242-98	0375 0002 108	453-98	0375 0000 108	4.13	4.38	104.65	111.00
4.31	110	242-99	0375 0001 106	453-99	0375 0000 110	4.19	4.44	106.43	112.78
4.38	111	242-100	0375 0001 108	453-100	0375 0000 111	4.25	4.50	107.95	114.30
4.63	117	242-104	0375 0002 117	453-104	0375 0000 118	4.50	4.75	114.30	120.65
4.81	123	242-108	0375 0002 124	453-108	0375 0001 124	4.75	5.00	120.65	127.00
5.00	127	242-112	0375 0000 127	453-112	0375 0000 130	5.00	5.25	127.00	133.35
5.38	136	242-116	0375 0000 137	453-116	0375 0001 137	5.25	5.50	133.35	139.70
5.63	142	242-120	0375 0000 143	453-120	0375 0001 143	5.50	5.75	139.70	146.05
5.81	148	242-124	0375 0000 150	453-124	0375 0001 149	5.75	6.00	146.05	152.40
6.13	155	242-128	0375 0000 156	453-128	0375 0001 156	6.00	6.25	152.40	158.75

Note: Call for a complete list of sizes and materials.

# Muffler Mounting Clamp

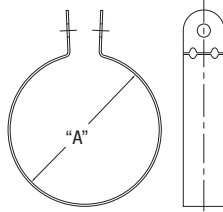


Motorcycle muffler mounting clamps with stainless steel bands that can be custom designed.

Round or Oval Clamp Shapes | Customized Perforations & Diameters | Nominal Diameter Range 3.5" – 4.94"

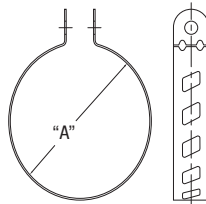
## C-SERIES ROUND MUFFLER MOUNTING

Annealed or Bright Annealed Finish  
Round Clamp Shape  
Bent or Straight Mounting Ear Styles



## CV-SERIES OVAL MUFFLER MOUNTING

Bright Annealed Finish  
Oval Clamp Shape  
Bent or Straight Mounting Ear Styles



Nominal Diameter		C-SERIES ROUND MUFFLER MOUNTING		Band Material	Mounting Ear	Band Holes	Ear Height		Ear Bolt Size	
inches	mm	Brand PN	Global PN				inches	mm	inches	mm
3.50	88.9	C-350-T10	0375 0001 089	.050x1.188" 18/8 Bright Annealed	Straight	None	1.56	39.1	0.38	10
3.63	91.9	C-350-075-8AN-1	0375 0004 092	.050x0.75" 18/8 Annealed	Straight	None	1.63	41.3	0.31	8
3.69	92.9	C-350-8AN	0375 0000 093	.050x1.188" 18/8 Annealed	Straight	None	1.25	31.7	0.31	8
3.69	92.9	C-350-8BRT	0375 0001 093	.048x1.188" 18/8 Bright Annealed	Straight	None	1.25	31.7	0.31	8
3.63	91.9	C-362-8HS	0375 0000 092	.048x1.188" 18/8 Bright Annealed	Straight	4 oval holes	1.38	35.3	0.31	8
3.63	91.9	C-362-8HSB	0375 0005 092	.048x1.188" 18/8 Bright Annealed	Bent 90° w/Gussets	4 oval holes	1.38 / 1.44	34.2 / 36.4	0.31	8
3.63	91.9	C-362-10HS	0375 0001 092	0.048x1.188" 18/8 Bright Annealed	Straight	4 oval holes	1 3/8	35.3	0.38	10
4.13	104.7	C-400-8HS	0375 0002 105	.048x1.188" 18/8 Bright Annealed	Straight	4 oval holes	1.44	36.5	0.31	8
4.06	103.1	C-400-10HS	0375 0001 103	.048x1.188" 18/8 Bright Annealed	Straight	4 oval holes	1.50	37.6	0.38	10
4.00	101.6	C-400-060-8H33B	0375 0001 102	.060x1.25" 1/8 Annealed	Bent 90° with Gussets	4 oval holes	1.25 / 3	31.7 / 76.2	0.31	8
4.50	114.3	C-450-T8	0375 0001 114	.050x1.188" 18/8 Annealed	Straight	None	1.56	39.1	0.31	8
4.50	114.3	C-450-T10	0375 0000 114	.050x1.188" 18/8 Annealed	Straight	None	1.56	39.1	0.38	10
4.75	121.4	C-478-01TH	0375 0000 121	.060X0.75" 18/8 Annealed	Straight	None	1.38	34.5	0.38	9.5
4.94	125.4	C-485-10HS-1	0375 0001 125	.048x1.188" 18/8 Bright Annealed	Straight	6 oval holes	1.25	31.6	0.38	10

Nominal Diameter		CV-SERIES OVAL MUFFLER MOUNTING		Band Material	Mounting Ear	Band Holes	Ear Height		Ear Bolt Size	
inches	mm	Brand PN	Global PN				inches	mm	inches	mm
4.00	102.6	CV-404-060-10H33	0375 0017 000	.060X1.250" 18/8 Bright Annealed	Straight	6 oval holes	1.38	35.3	0.38	10
3.50	88.9	CV-350460-8H33	0375 0044 000	.048x1.188" 18/8 Bright Annealed	Bent 145° ear angle	5 oval holes	1.13	29.2	0.31	8
3.50	88.9	CV-350460-10H33	0375 0045 000	.048x1.188" 18/8 Bright Annealed	Bent 145° ear angle	5 oval holes	1.13	29.2	0.38	10
3.63	91.44	CV-360522-10BRTHS	0375 0018 000	.048x1.188" 18/8 Bright Annealed	Straight	6 oval holes	1.50	38.1	0.38	10
4.00	102.6	CV-21137010H33	0375 0046 000	.048x1.188" 18/8 Bright Annealed	Straight	6 oval holes	1.38	35.3	0.38	10
3.81	96.5	CV-6	0375 0015 000	.048x1.188" 18/8 Bright Annealed	Straight	6 oval holes	1.44	36.5	0.38	10

Note: Call for a complete list of sizes and materials.





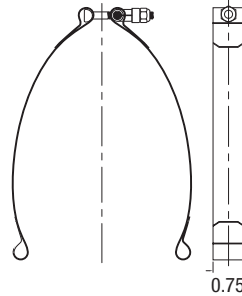


# Strap Clamp

Strap clamps with T-bolt closure in flat or round, in custom lengths and shapes.

0.75" 300-Series Stainless Steel Band | 0.25" Plated Hardware | Custom Lengths

**48-SERIES STRAP CLAMPS**  
 300-Series Stainless Steel  
 0.75" Band Width  
 T-Bolt and Trunnion Style



Strap Length		48-SERIES STRAP		Band Material	Band Width		Description
inches	mm	Brand PN	Global PN		inches	mm	
7.19	183	48-700A	0375 0030 000	300 Series SS	0.75	19	T-bolt band strap half, plated carbon steel hardware
7.19	183	48-700B	0375 0029 000	300 Series SS	0.75	19	Trunnion band strap half, plated carbon steel hardware
8.19	208	48-600A	0375 0034 000	300 Series SS	0.75	19	T-bolt band strap half, 300-Series stainless hardware
8.19	208	48-600B	0375 0032 000	300 Series SS	0.75	19	Trunnion band strap half, 300-Series stainless hardware
9.25	235	48-913A	0375 0028 000	300 Series SS	0.75	19	T-Bolt band strap half, plated carbon steel hardware
9.25	235	48-913B	0375 0027 000	300 Series SS	0.75	19	Trunnion band strap half, plated carbon steel hardware
10.50	267	48-1496A	0375 0036 000	300 Series SS	0.75	19	T-bolt band strap half, plated carbon steel hardware
10.50	267	48-1496B	0375 0035 000	300 Series SS	0.75	19	Trunnion band strap half, plated carbon steel hardware

Note: Call for a complete list of sizes and materials.

## Additional Custom Products Available

FiveStar has the engineering expertise to customize any FiveStar product to meet your unique demands and requirements.

### Spring-Loaded Barrel Band Clamp

- | Heavy-Duty constant-seal clamp design
- | Fully rounded edges to protect hoses
- | Diameter ranges from 1" to 6.5"
- | .025" x 3/4" 300-Series SS band (w/optional shoe)
- | M6-1mm hex screw, barrel nut and trunnion are CRS zinc-plated



### Barrel Band Clamp (Black Powder Coated)

- | Heavy-duty clamp design
- | Constant seal hot or cold
- | Diameter ranges from 1" to 6.5"
- | .025" x 3/4" 300 stainless steel band
- | Available in powder coated colors
- | Allen screw, barrel nut and trunnion are zinc-plated carbon steel





## Heavy-Duty No-Hub Pipe Coupling Expertise

Clamp-All is the only Pipe Coupling System you will ever need for Drain, Waste, and Vent (DWV) pipe applications. Approved by an independent source for use by the Universal Plumbing Council (UPC), Clamp-All couplings are designed to meet the plumbing industry's need for heavy-duty, commercial grade couplings to join storm and sanitary DWV piping systems, above and below ground. Clamp-All is also third-party approved to Factory Mutual FM 1680 Class I at 15 PSI and conforms to the ASTM A-888 standard for all storm and sanitary DWV piping systems. Clamp-All couplings are made in the U.S.A., and are the perfect solution for demanding jobs in schools, hospitals, jails, museums, and sports complexes, as well as commercial and industrial projects.





infrastructure

industrial



# No-Hub Plumbing Couplings

Clamp-All provides safe, secure pipe couplings to meet the plumbing industry's need for a heavy-duty, commercial grade system for critical environmental conditions. Our corrosion-resistant materials are durable and offer maximum strength for sanitary drain, waste, and vent (DWV) piping systems, above and below ground. Designed with flexible rigidity, Clamp-All couplings maintain hydrostatic integrity in the most high demand applications, and our intelligent bushing system allows pipes of differing diameters to be securely joined.



## Approvals and Listings



**FM**  
Approved to FM 1680 Class I, 15 PSI



**IAPMO**  
Listed by IAPMO - #2189



**SBCCI**  
SBCCI Evaluation Report #9488 for Code Compliance



**ICC ES**  
Refer to ICC Evaluation Report ICC-ES 94-20



**ASTM**  
Conforms to: ASTM A-666  
ASTM C-564



Unique flexible rigidity maintains hydrostatic integrity

Blue housing for ease of product identification in the field

Corrosion-resistant 305 stainless steel screw with 1/4" hex head

Hi-Torque™ 80

Multiple sealing beads to create a leak-free joint

Reduced quantity of clamps per joint for quicker installation

Neoprene complies with ASTM C-564

Outer grooves of gasket nest securely into Hi-Torq coupling gaskets

Snap-All® Transition Bushings

Engineered to work with Hi-Torq 125 and Hi-Torq 80 couplings when joining pipes of different diameters

# Clamp-All Hi-Torq™ Couplings



Plumbing connection clamps for DWV systems in above- or below-ground applications.

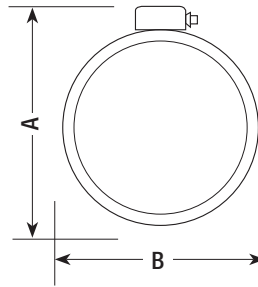
Approved to FM 1680 Class I, 15 PSI | Commercial Grade Shielded Coupling | Neoprene Gasket | Pipe Diameter Range 1 1/2" – 15"

## HI-TORQ 80

ASTM A-666 and ASTM C-564  
24-Gauge Type 304 Chromium Nickel SS Shield  
One-Piece Molded Neoprene Gasket  
High-Strength Worm-Drive Clamps  
Slotted-Shield Design

## HI-TORQ 125

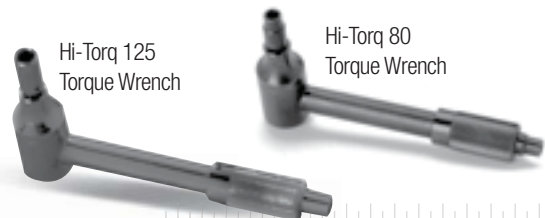
ASTM A-666 and ASTM C-564  
24-Gauge Type 304 Chromium Nickel SS Shield  
One-Piece Molded Neoprene Gasket  
High-Strength Worm-Drive Clamps  
Slotted-Shield Design



HI-TORQ 80		Pipe Size		Installed Dimension (A)		Installed Dimension (B)		Depth To Center Stop		Width Of Coupling	
Brand PN	Global PN	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
81015	0372 0000 058	1 1/2	38	2 3/4	70	2 1/4	57	1 7/16	37	3	75
81020	0372 0000 069	2	50	3 1/4	83	2 3/4	70	1 7/16	37	3	75
81030	0372 0000 094	3	75	4 1/4	108	3 3/4	95	1 7/16	37	3	75
81040	0372 0000 121	4	100	5 1/4	133	4 3/4	121	1 7/16	37	3	75
81050	0372 0000 145	5	125	6 1/4	159	5 3/4	146	1 15/16	49	4	100
81060	0372 0000 170	6	150	7 1/4	184	6 3/4	171	1 15/16	49	4	100
81080	0372 0000 224	8	200	9 1/4	235	8 3/4	222	1 15/16	49	4	100
81000	0372 0000 302	10	250	11 1/4	292	11	279	1 15/16	49	4	100

HI-TORQ 125		Pipe Size		Installed Dimension (A)		Installed Dimension (B)		Depth To Center Stop		Width Of Coupling	
Brand PN	Global PN	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
10015	0372 0206 038	1 1/2	38	2 3/4	70	2 1/4	57	1 7/16	37	3	75
10020	0372 0204 051	2	50	3 1/4	83	2 3/4	70	1 7/16	37	3	75
10030	0372 0204 076	3	75	4 1/4	108	3 3/4	95	1 7/16	37	3	75
10040	0372 0204 102	4	100	5 1/4	133	4 3/4	121	1 7/16	37	3	75
10050	0372 0202 127	5	125	6 1/4	159	5 3/4	146	1 15/16	49	4	100
10060	0372 0202 152	6	150	7 1/4	184	6 3/4	171	1 15/16	49	4	100
10080	0372 0202 203	8	200	9 1/4	235	8 3/4	222	1 15/16	49	4	100
10100	0372 0202 254	10	250	11 1/2	292	11	279	1 15/16	49	4	100
10120	0372 0200 305	12	300	13 1/2	338	13	325	2 3/4	69	5 5/8	141
10150	0372 0200 381	15	375	16 3/4	419	17 1/4	431	2 3/4	69	5 5/8	141

CLAMP-ALL TOOLS		Description
Brand PN	Global PN	
99080	1046 0000 076	Hi-Torq 80 Torque Wrench
99125	1046 0000 078	Hi-Torq 125 Torque Wrench



# Clamp-All / Snap-All® Bushings

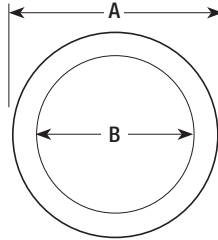


Increaser/Reducer bushings used with Clamp-All couplings when transitioning from DWV pipes of different diameters.

Interlocking Water-Tight, Gas-Tight Seal | One-Piece Molded Neoprene | Diameter Range 1 1/2" x 3/4" – 10" x 8"

## SNAP-ALL BUSHINGS

Complies with ASTM C-564  
One-Piece Molded Neoprene  
Adaptable in Most DWV Transitions



SNAP-ALL BUSHINGS		Snap-All Bushing Size		Clamp-All Coupling Diameter (A)		Snap-All Bushing Diameter (A)		Pipe Size Diameter Fits Outside (B)		Material
Brand PN	Global PN	inches	mm	inches	mm	inches	mm	inches	mm	
31575	0364 0600 038	1-1/2 x 3/4 cu	38 x 19	1 1/2	38	2 x 1 1/2	51 x 38	3/4	19	Copper
30151	0364 0603 038	1-1/2 x 1 cu	38 x 25	1 1/2	38	2 x 1 1/2	51 x 38	1	25	Copper
31512	0364 0602 038	1-1/2 x 1-1/4 cu	38 x 32	1 1/2	38	2 x 1 1/2	51 x 38	1 1/4	32	Copper
31515	0364 0601 038	1-1/2 x 1-1/2 cu	38 x 38	1 1/2	38	2 x 1 1/2	51 x 38	1 1/2	38	Copper
30215	0364 0600 051	2 x 1-1/2 cu	51 x 38	2	51	3 x 2	76 x 51	1	25	Copper
20215	0364 0602 051	2 x 1-1/2	51 x 38	2	51	3 x 2	76 x 51	1 1/2	38	CI, STL, PVC
30022	0364 0601 051	2 x 2 cu	51 x 51	2	51	3 x 2	76 x 51	2	51	Copper, XHCl
30032	0364 0602 076	3 x 2 cu	76 x 51	3	76	4 x 3	102 x 76	2	51	Copper
20032	0364 0604 076	3 x 2	76 x 51	3	76	4 x 3	102 x 76	2	51	CI, STL, PVC
30033	0364 0601 076	3 x 3 cu	76 x 76	3	76	4 x 3	102 x 76	3	76	Copper, XHCl
30043	0364 0601 102	4 x 3 cu	102 x 76	4	102	5 x 4	127 x 102	3	76	Copper
20043	0364 0602 102	4 x 3	102 x 76	4	102	5 x 4	127 x 102	3	76	CI, STL, PVC
30044	0364 0600 102	4 x 4 cu	102 x 102	4	102	5 x 4	127 x 102	4	102	Copper, XHCl
20054	0364 0600 127	5 x 4	127 x 102	5	127	6 x 5	152 x 127	4	102	CI, STL, PVC
20064	0364 0602 152	6 x 4	152 x 102	6	152	8 x 6	203 x 152	4	102	CI, STL, PVC
20065	0364 0601 152	6 x 5	152 x 127	6	152	8 x 6	203 x 152	5	127	CI, STL, PVC
20086	0364 0601 203	8 x 6	203 x 152	8	203	10 x 8	254 x 203	6	152	CI, STL, PVC
20875	0364 0600 203	8 x 7-1/2 cu	203 x 191	8	203	-	-	6	152	Copper
20108	0364 0601 254	10 x 8	254 x 203	10	254	-	-	8	203	CI, STL, PVC
21095	0364 0600 254	10 x 8	254 x 203	10	254	-	-	8	203	Clay

## NOMINAL OUTSIDE PIPE DIAMETER

Pipe Size		Hubless Cast Iron		Steel		Schedule 40-80 PVC		SDR-35 Plastic		Clay		Copper DWV	
inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
1 1/4	32	-	-	-	-	-	-	-	-	-	-	1 3/8	35
1 1/2	38	1 7/8	48	1 7/8	48	1 7/8	48	-	-	-	-	1 5/8	41
2	51	2 3/8	60	2 3/8	60	2 3/8	60	-	-	-	-	2 1/8	54
3	76	3 3/8	86	3 3/8	86	3 3/8	86	-	-	-	-	3 1/8	79
4	102	4 3/8	111	4 1/2	114	4 1/2	114	4 3/16	103	5 3/8	137	4 1/8	105
5	127	5 5/16	135	5 9/16	141	5 9/16	141	-	-	6 5/8	168	5 1/8	130
6	152	6 5/16	160	6 5/8	168	6 5/8	168	6 1/4	159	7 1/2	191	6 1/8	156
8	203	8 3/8	213	8 3/8	213	8 3/8	213	8 3/8	213	-	-	-	-
10	254	10 9/16	268	10 3/4	273	10 3/4	273	10 1/2	267	-	-	-	-

# Full-Line Application Matrix



Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
Mini	Hose Clamps	General Purpose Perforated																											
Fuel Injection	Hose Clamps	Specialty																											
Power-Seal®	Hose Clamps	General Purpose Perforated																											
Liner	Hose Clamps	General Purpose Perforated																											
Make-A-Clamp®	Hose Clamps	Specialty																											
Aero-Seal®	Hose Clamps	General Purpose Perforated																											
Jet Aero-Seal®	Hose Clamps	Specialty																											
Aerospace and "Mil" Spec	Hose Clamps	Specialty																											
Hi-Torque	Hose Clamps	Heavy Duty/ T-bolt																											
Constant-Torque® AS	Hose Clamps	Constant Tension																											
Constant-Torque® HD	Hose Clamps	Constant Tension																											
Super-Seal	Hose Clamps	Constant Tension																											
Super-Seal HD	Hose Clamps	Constant Tension																											
T-Bolt	Hose Clamps	Heavy Duty/ T-Bolt																											
Spring-Loaded T-Bolt	Hose Clamps	Spring Loaded T-Bolt																											
HD Spring-Loaded T-Bolt	Hose Clamps	Spring Loaded T-Bolt																											
V-Bands	V-Bands	V-Insert																											
Secure-Strap	Hose Clamps	Specialty																											
Secure-Seal	Hose Clamps	Specialty																											



Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
AccuSeal®	Exhaust Pipe Clamp	Pipe to Pipe																											
AccuSeal® with Sleeve	Exhaust Pipe Clamp	Pipe to Pipe																											
Double Accuseal®	Exhaust Pipe Clamp	Pipe to Pipe																											
AccuSeal® Coupler	Exhaust Pipe Clamp	Coupler																											
Coupler	Exhaust Pipe Clamp	Coupler																											
55 Wide DPF Coupler	Exhaust Pipe Clamp	Coupler																											
Euro Coupler	Exhaust Pipe Clamp	Coupler																											
DuraSeal®	Exhaust Pipe Clamp	Pipe to Pipe																											
SwivelSeal	Exhaust Pipe Clamp	Pipe to Pipe																											
TorcTite®	Exhaust Pipe Clamp	Wideband																											
EasySeal®	Exhaust Pipe Clamp	Wideband																											
U-Bolt	Exhaust Pipe Clamp	Exhaust Clamp																											
AccuLock	Exhaust Pipe Clamp	Exhaust Clamps																											
UniStrap	Exhaust Pipe Clamp	Band and Straps																											



Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
TORRO®	Hose Clamps	General Purpose Embossed																											
TORRO® WF	Hose Clamps	Constant Tension Clamps																											
GBS	Hose Clamps	Heavy Duty/ T-Bolt																											
FBS	Hose Clamps	Constant Tension Clamps																											
COBRA	Hose Clamps	Specialty Products																											
RS/RSGU	Retaining products	P-Clips																											
FGR Flex/ Flex E	Pipe Couplings	High Pressure																											
FGR REP/REP E	Pipe Couplings	High Pressure																											
FGR GRIP/GRIP E	Pipe Couplings	High Pressure																											
FGR COMBI GRIP/GRIP E	Pipe Couplings	High Pressure																											
FGR PLAST GRIP/GRIP E	Pipe Couplings	High Pressure																											
FGR GRIP E-FP	Pipe Couplings	High Pressure																											
FGR RFP	Pipe Couplings	High Pressure																											
Twist II	Quick Connectors	Specialty																											
S	Quick Connectors	SAE																											
SAE-Style	Quick Connectors	SAE																											
V2	Quick Connectors	SAE																											
PS3	Quick Connectors	VDA Connectors																											
C-Style	Quick Connectors	VDA Connectors																											



### ABA

Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
ABA MINI (W1 Combi Screw)	Hose Clamps	Specialty																											
ABA MINI (W4 Hex Screw)	Hose Clamps	Specialty																											
ABA Nova (W1)	Hose Clamps	General Purpose embossed																											
ABA Nova All Stainless S50 (W5)	Hose Clamps	General Purpose embossed																											
ABA Original S20(W2)	Hose Clamps	General Purpose embossed																											
ABA Original S40(W4)	Hose Clamps	General Purpose embossed																											
ABA Original S50(W5)	Hose Clamps	General Purpose embossed																											
ABA Original SMO	Hose Clamps	General Purpose embossed																											
ABA Safe™ W1	Hose Clamps	Constant Tension																											
ABA Safe™ W4	Hose Clamps	Constant Tension																											

### R.G.RAY®

Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
T-Bolt	Hose Clamps	Heavy Duty/T-Bolt																											
Mini Flex-Seal™	Hose Clamps	Heavy Duty/T-Bolt																											
Flex-Seal™ Spring	Hose Clamps	Constant Tension																											
Flex-Seal™ HD Spring	Hose Clamps	Constant Tension																											
General Purpose V-Insert	V-Band Clamps	V-Insert																											
Quick Connect V-Insert	V-Band Clamps	V-Insert																											
Quick Release V-Insert	V-Band Clamps	V-Insert																											
Light Duty V-Insert	V-Band Clamps	V-Insert																											
Roll Formed V-Clamp	V-Band Clamps	V-Band																											
Flex Roll Formed	V-Band Clamps	V-Band																											
Uni-Flex V-Clamp	V-Band Clamps	V-Band																											
E-Series V-Clamp	V-Band Clamps	Stamped V-Clamp																											
V-Clamp Halves	V-Band Clamps	Stamped V-Clamp																											
V-Coupling	V-Band Clamps	Stamped V-Clamp																											
Strap Coupling	Exhaust	Band and Straps																											
Mounting Clamps	Exhaust	Band and Straps																											
Muffler and Heat Shield Clamps	Exhaust	Band and Straps																											

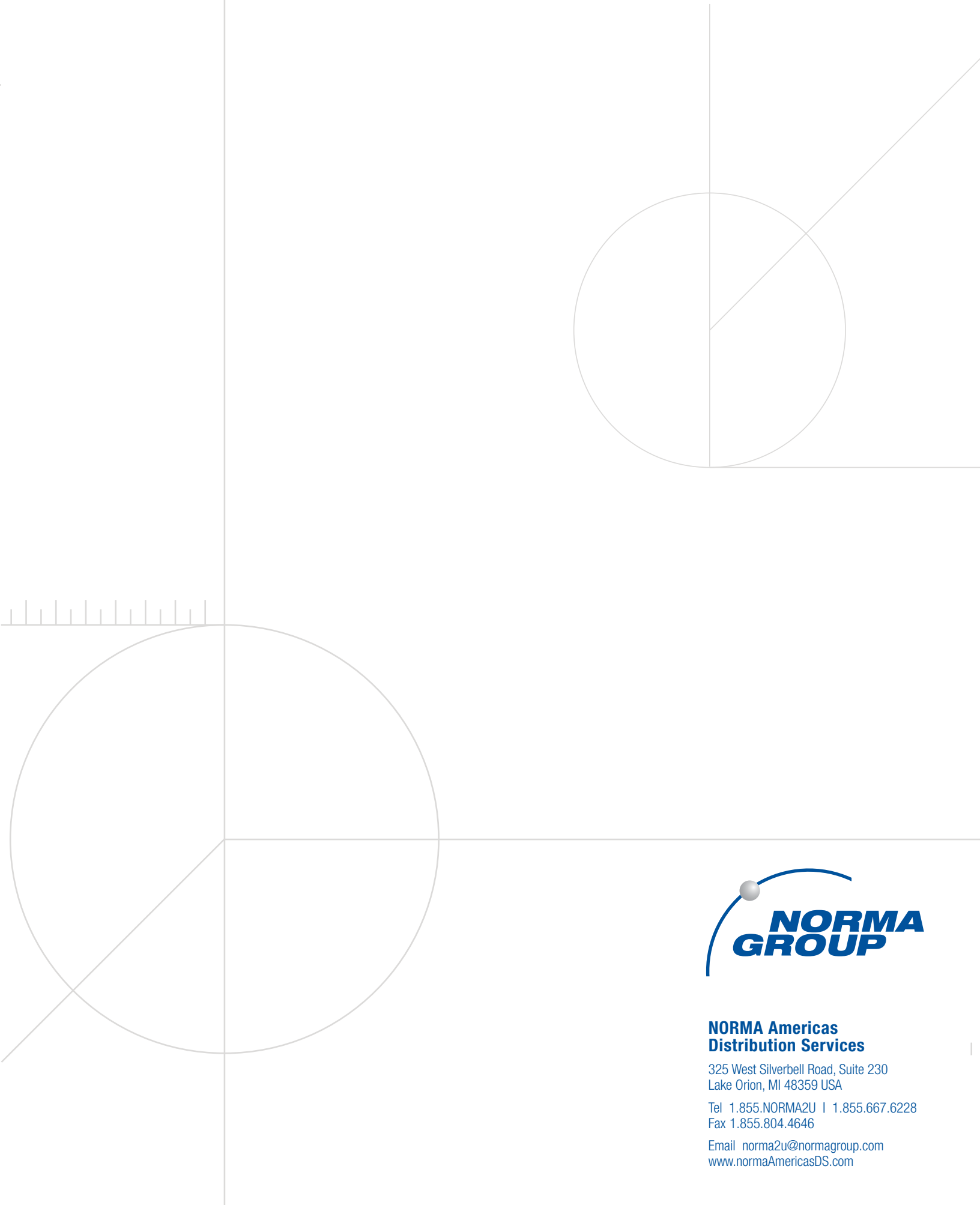
### FiveStar

Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
Quick-Release V-Band Clamp	V-Band Clamp	V-Band																											
General Purpose V-Band Clamp	V-Band Clamp	V-Band																											
Barrel Band Clamp	Hose Clamp	Barrel Band																											
Barrel Band Clamp with Shoe	Hose Clamp	Barrel Band																											
T-Bolt Band Clamp	Hose Clamp	Heavy-Duty T-Bolt																											
Spring-Loaded T-Bolt Band Clamp	Hose Clamp	Spring-Loaded T-Bolt																											
Quick Release Mounting Clamp	Mounting Clamp	Heavy-Duty T-Bolt																											
Muffler Mounting Clamp	Mounting Clamp	Band and Straps																											
Strap Clamp	Mounting Clamp	Band and Straps																											

### Clamp-All®

Product Name	Product Type	Product Sub Type	Passenger Vehicle					Commercial Vehicle					Industrial				Residential				Infrastructure								
			Exhaust	Fuel	Air	Fluid	Turbo	Retaining	Exhaust	Fuel	Air	Fluids	Turbo	Retaining	MRO	Irrigation/Agr.	Aviation	Marine	Plumbing	HVAC	General Auto	Appliances	Lawn & Garden	Building	Sanitary/Drain	Water Man.	Ship Building	Oil & Gas	Municipal
Hi-Torque™ 80	Pipe Couplings	Hubless																											
Hi-Torque™ 125	Pipe Couplings	Hubless																											
Snap-All® Bushings	Pipe Bushings	Hubless																											





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