

HYMAX[®]

a **MUELLER** brand

HYMAX GRIP[®] FLANGE ADAPTOR (1.5" - 12")

Product Specifications

FEATURES

- Joins and restrains a wide range of piping types and diameters
- Unique radial gripping system
- Universal gripping teeth fit many pipe types. Check with your local salesperson for pipe material verification
- Ready to use, stab-fit design
- Allows 4° dynamic deflection per side, potentially reducing future damage
- Durable ductile iron body
- Patented hydraulically-assisted gasket with 2-stage sealing

SPECIFICATIONS

STANDARDS

- HYMAX GRIP meets or exceeds standards AWWA C219, NSF 61, NSF 372.

SIZE

- Available in nominal diameter from 1.5" - 12".

MATERIALS

FLANGE BODY

- Ductile iron casting ASTM A536 Grade 65-45-12.
- 1.5" - 2.5" Oval flange .
- 3" Compatible with ANSI B16.5 .
- 4" - 12" Flange compatible with AWWA Class D, ANSI Class 125 .
- 150lb. drilling bolt circles.
- product sizes 4" - 12" contain a lifting eye.

END RINGS

- 1.5" - 3": Made of cast steel ASTM A216 WCB.
- 4" - 12": Ductile iron casting ASTM A536 Grade 65-45-12.



GASKETS

- EPDM and NBR available. Both are compounded for water and sewage in accordance with ASTM D2000, meet international standards for contact with drinking water.

GRIP CHAIN

Gripping teeth:

- Size 1.5" - 3": FN-0405 (Fe4Ni05Mo).
- Sizes 4" - 12": AISI 420.
- Sizes 4" - 12" High Pressure: FN-0405 (Fe4Ni05Mo).

BRIDGE

- Available in AISI 304 or 316 Stainless Steel. ASTM A240.

SPHERICAL SPACERS

- Available in AISI 304 (ASTM A351 CF8) or AISI 316 (ASTM A351 CF8M) Stainless Steel.

COATING

- 100% fusion bonded epoxy for enhanced corrosion protection.
- Average thickness 14 mm.
- Meets AWWA C116 standard.

BOLTS, NUTS AND WASHERS

- Available in AISI 304 or 316 Stainless Steel. Rolled thread with anti-galling coating. ASTM F593, ASTM F594, ASTM A240 respectively.



JOIN



REPAIR



RESTRAIN



TAP

MUELLER

PRODUCT PERFORMANCE

WORKING TEMPERATURE

- EPDM: -20° F up to +125° F
- NBR: -4° F up to +125° F

DYNAMIC DEFLECTION

- Up to 4° per side

MIN. PIPE INSERTION

- 3.6"

PRESSURES & ΔT

- ΔT - HDPE pipe expands and contracts with changes in temperature and exerts large pull-load forces on the coupling. ΔT for HDPE pipe is the change in temperature the coupling can withstand when installed on HDPE pipe.
- Insert stiffeners are required when installing this product on HDPE pipe

MAXIMUM OFFSET FOR MISALIGNED PIPES

- 0.12"

MAXIMUM OUT OF ROUNDNESS

- ND 1.5" - ND 3": 0.12"
- ND 4" - ND 12": 0.16"

VACUUM TEST

- 12 psi

| ND (inch) | Standard Pressure GRIP | | ΔT for HDPE SDR 9 (°F) |
|-----------|------------------------|------|------------------------|
| | Steel, DI, CI & PVC II | HDPE | |
| 1.5/2 | 232 | 232 | 85 |
| 2.5 | 232 | 232 | 85 |
| 3 | 232 | 232 | 85 |
| 4 | 232 | 232 | 85 |
| 6 | 232 | 232 | 85 |
| 8 | 232 | 193 | 50 |
| 10 | 232 | 163 | 50 |
| 12 | 232 | 155 | 35 |

| ND (inch) | High Pressure GRIP | |
|-----------|------------------------|------------------------|
| | Steel, DI, CI & PVC II | ΔT for HDPE SDR 9 (°F) |
| 4 | 250 | 100 |
| 6 | 250 | 100 |
| 8 | 250 | 100 |
| 10 | 250 | 100 |
| 12 | 250 | 70 |

PRODUCT TABLES

| TORQUE | | |
|-----------|--------------|-------------|
| ND (inch) | EPDM (ft-lb) | NBR (ft-lb) |
| 1.5/2 | 50 | 50 |
| 2.5 | 50 | 50 |
| 3 | 50 | 50 |
| 4 | 90 | 105 |
| 6 | 110 | 110 |
| 8 | 200 | 200 |
| 10 | 200 | 200 |
| 12 | 200 | 200 |

PRODUCT CONFIGURATIONS

The product is offered in several different configurations. Note that the "xx" marking in the Cat. no. should be replaced as directed:

Part Number 130-XX

56 - Standard Pressure Grip with EPDM gasket, Fasteners AISI 304

57 - Standard Pressure Grip with NBR gasket, Fasteners AISI 304

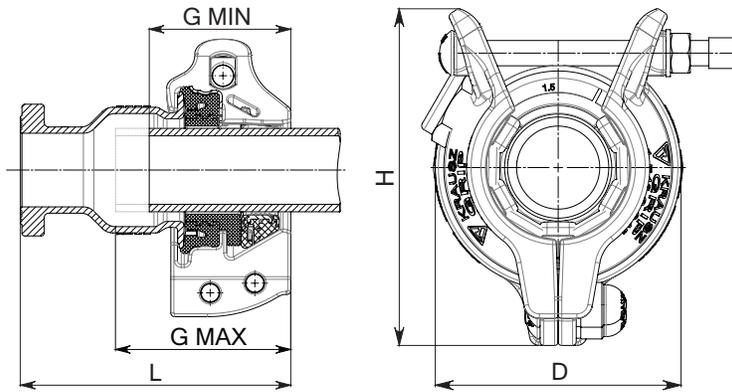
58 - High Pressure Grip with EPDM gasket, Fasteners AISI 304

59 - High Pressure Grip with NBR gasket, Fasteners AISI 304

96 - Standard Pressure Grip with EPDM gasket, Fasteners AISI 316

For example -

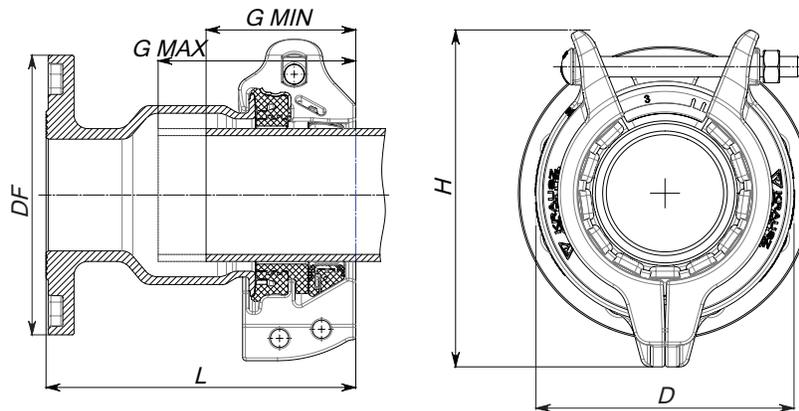
130-XX-04111-16 should be read as 130-56-04111-16 for Standard Pressure Grip with EPDM gasket and 130-57-04111-16 for Standard Pressure Grip with NBR gasket.



HYMAX GRIP OVAL FLANGE ADAPTOR NOMINAL SIZE 1.5" - 2.5" (*)

| HYMAX Part Number | Nominal Diameter (inch) | Flange Oval (inch) | Overall Range (inch) | Before Removal of the Inner Layer (inch) | After Removal of the Inner Layer (inch) | L (inch) | D (inch) | H (inch) | G - Max Stab Depth (inch) | Bolts Qty. - Size | Approx. Weight (lbs) |
|---------------------|-------------------------|--------------------|----------------------|--|---|----------|----------|----------|---------------------------|-------------------|----------------------|
| 130-XX-015039-15-16 | 1.5/2 | 1.5 | 1.54 - 2.64 | 1.54 - 2.20 | 2.17 - 2.64 | 7.1 | 5.35 | 7.48 | 4.5 | 1 - M14 | 9.72 |
| 130-XX-015039-20-16 | 1.5/2 | 2 | 1.54 - 2.64 | 1.54 - 2.20 | 2.17 - 2.64 | 7.1 | 5.35 | 7.48 | 4.7 | 1 - M14 | 9.96 |
| 130-XX-025059-20-16 | 2.5 | 2 | 2.32 - 3.43 | 2.32 - 2.99 | 2.95 - 3.43 | 7.1 | 6.18 | 8.07 | 4.5 | 1 - M14 | 11.33 |

* NOTE: configs 58 & 59 are not relevant for 1.5" - 3" sizes

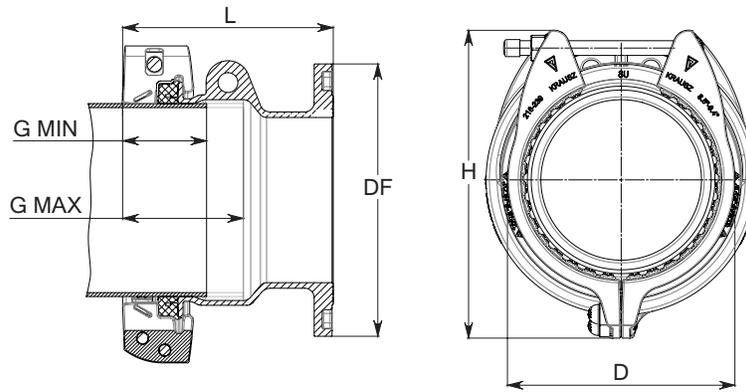


HYMAX GRIP ROUND FLANGE ADAPTOR NOMINAL SIZE 3" (*)

| HYMAX Part Number | Nominal Diameter (inch) | Overall Range (inch) | Before Removal of the Inner Layer (inch) | After Removal of the Inner Layer (inch) | DF (inch) | L (inch) | D (inch) | H (inch) | G - Max Stab Depth (inch) | Bolts Qty. - Size | Approx. Weight (lbs) |
|-------------------|-------------------------|----------------------|--|---|-----------|----------|----------|----------|---------------------------|-------------------|----------------------|
| 130-96-015039-16 | 1.5/2 | 1.54 - 2.64 | 1.54 - 2.20 | 2.17 - 2.64 | 6.14 | 7.0 | 5.35 | 7.48 | 4.5 | 1 - M14 | 11.5 |
| 130-XX-030080-16 | 3 | 3.15 - 4.17 | 3.15 - 3.74 | 3.70 - 4.17 | 7.87 | 8.74 | 6.93 | 9.06 | 5.5 | 1 - M14 | 21.25 |

* NOTE: configs 58 & 59 are not relevant for 1.5" - 3" sizes

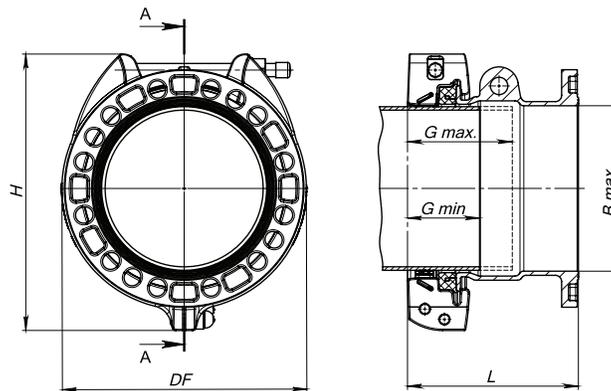
**NOTE: Sizes 3" to 12" only. For 316SS use part number prefix of "134-96"



HYMAX GRIP NOMINAL SIZE 4" - 12"

| HYMAX Part Number | Nominal Diameter (inch) | Overall Range (inch) | DF (inch) | L (inch) | D (inch) | H (inch) | G - Max Stab Depth (inch) | Bolts Qty. - Size | Approx. Weight (lbs) |
|-------------------|-------------------------|----------------------|-----------|----------|----------|----------|---------------------------|-------------------|----------------------|
| 130-XX-04111-16 | 4 | 4.40 - 5.10 | 9 | 8.6 | 8.7 | 10.6 | 5.3 | 1 - 5/8 | 27.6 |
| 130-XX-06165-16 | 6 | 6.50 - 7.20 | 11.2 | 9.9 | 10.9 | 12.9 | 5.7 | 1 - 5/8 | 39.5 |
| 130-XX-08216-16 | 8 | 8.50 - 9.40 | 13.5 | 10.4 | 13.8 | 15.7 | 5.9 | 1 - 3/4 | 61.4 |
| 130-XX-10270-16 | 10 | 10.65 - 11.55 | 16 | 10.7 | 16.2 | 18.2 | 5.9 | 1 - 3/4 | 81.3 |
| 130-XX-12322-16 | 12 | 12.68 - 13.39 | 19 | 11.7 | 17.4 | 19.8 | 6.3 | 1 - 3/4 | 106.3 |

*NOTE: Above Flange Adapters 4" - 12" are only available in 304SS hardware



HYMAX GRIP OPEN BORE FLANGE ADAPTOR NOMINAL SIZE 4" - 12"

| HYMAX Part Number | Nominal Diameter (inch) | Overall Range (inch) | DF (inch) | L (inch) | D (inch) | H (inch) | B Max (inch) | G Max (inch) | Bolts Qty. - Size | Approx. Weight (lbs) |
|-------------------|-------------------------|----------------------|-----------|----------|----------|----------|--------------|--------------|-------------------|----------------------|
| 134-96-04111-16 | 4 | 4.40 - 5.10 | 9 | 8.3 | 8.7 | 10.6 | 5.06 | 5.0 | 1 - 5/8 | 24.7 |
| 134-96-06165-16 | 6 | 6.50 - 7.20 | 11.2 | 8.6 | 10.9 | 12.9 | 7.16 | 5.4 | 1 - 5/8 | 33.9 |
| 134-96-08216-16 | 8 | 8.50 - 9.40 | 13.5 | 9.6 | 13.8 | 15.7 | 9.36 | 5.7 | 1 - 3/4 | 54.2 |
| 134-96-10270-16 | 10 | 10.65 - 11.55 | 16 | 9.9 | 16.2 | 18.2 | 11.46 | 5.7 | 1 - 3/4 | 72 |
| 134-96-12322-16 | 12 | 12.68 - 13.39 | 19 | 10.5 | 17.4 | 19.8 | 13.26 | 6.2 | 1 - 3/4 | 92.1 |

*NOTE: Above Open Bore Flange Adapters 4" - 12" are only available in 316SS hardware

To learn more, visit HymaxUSA.com.

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