

HYMAX GRIP® COUPLING RESTRAINT (1.5" - 12")

Product Specifications

FEATURES

- Joins and restrains a wide range of piping types and diameters
- Unique radial gripping system prevents pipe motion
- Universal gripping teeth fit metal and plastic pipes
- Ready to use, stab-fit design
- Allows 4° dynamic deflection per end, 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 END RINGS

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

CENTER RINGS

- 1.5" 12" ductile iron casting ASTM A536 Grade 65-45-12.
- Product sizes 3" 12" with handle.



GASKETS

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

GRIP CHAIN

Gripping teeth:

- Size 1.5" 3": Fe4Nio5Mo.
- Sizes 4" 12": AISI 420.
- Sizes 4" 12" High Pressure: Fe4Nio5Mo.

BRIDGE

Available in AISI 304 or 316 Stainless Steel.

SPHERICAL SPACERS

Available in AISI 304 or 316 Stainless Steel.

COATING

- 100% fusion bonded epoxy for enhanced corrosion protection.
- Average thickness 14 mm.

NUTS, BOLTS & WASHERS

 Available in AISI 304 or 316 Stainless Steel. Rolled thread with anti-galling coating.





REPAIR







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"

MAXIMUM OFFSET FOR MISALIGNED PIPES

• 0.25"

MAXIMUM OUT OF ROUNDNESS

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

VACUUM TEST

• 12 psi

*Registered patent

PRESSURES & AT

• Δ T - HDPE pipe expands and contracts with changes in temperature and exerts large pull-load forces on the coupling. Δ T for HDPE pipe is the change in temperature the coupling can withstand when installed on HDPE pipe.

 GRIP									
Steel, DI,	CI, PVC & SS		HDPE						
ND (inch)	Working Pressure (psi)		Working Pressure (psi)	AT for HDPE SDR 9 (°F)					
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					

163

155

50

35

Standard Pressure

High Pressure GRIP								
Steel, DI, Cl, PVC, HDPE & SS								
ND (inch) Working Pressure (psi) (°F)								
4	250	100						
6	250	100						
8	250	100						
10	250	100						
12	250	70						

PRODUCT TABLES

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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					

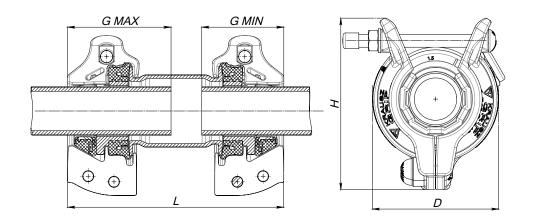
PRODUCT CONFIGURATIONS

The product is offered in several different configurations. Note that the "xx" marking in the Cat. no. should be replaced as directed: Part Number 890-XX

- 56 Standard Pressure Grip with EPDM gasket, Fasteners AISI 304SS
- 57 Standard Pressure Grip with NBR gasket, Fasteners AISI 304SS
- 58 High Pressure Grip with EPDM gasket, Fasteners AISI 304SS
- 59 High Pressure Grip with NBR gasket, Fasteners AISI 304SS
- 96 Standard Pressure Grip with EPDM gasket, Fasteners AISI 316SS

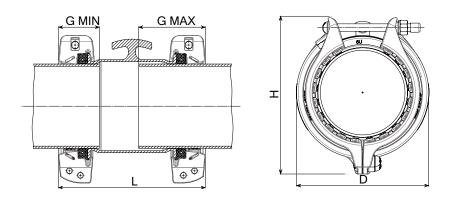
For example -

890-XX-015039-16 should be read as 890-56-015039-16 for EPDM gasket and 890-57-015039-16 for NBR gasket.



HYMAX GRIP NOMINAL SIZE 1.5" - 3" (*)										
HYMAX Part Number	HYMAX Part Nominal Overall R Number Diameter Range Of (inch) (inch)		Before Removal of the Inner Layer (inch)	After Removal of the Inner Layer (inch)	L (inch)	D (inch)	H (inch)	Bolts Qty Size	G - Max Stab Depth (inch)	Approx. Weight (lbs)
890-XX-015039-16	1.5/2	1.54 - 2.64	1.54 - 2.20	2.17 - 2.64	10	5.35	7.48	2 - M14	4.5	15.45
890-XX-025059-16	2.5	2.32 - 3.43	2.32 - 2.99	2.95 - 3.43	10	6.18	8.07	2 - M14	4.5	20.26
890-XX-030080-16	3	3.15 - 4.17	3.15 - 3.74	3.70 - 4.17	11.93	6.93	9.06	2 - M14	5.5	25.53

^{*} NOTE: configs 58 & 59 are not relevant for 1.5 $^{\prime\prime}$ - 3 $^{\prime\prime}$ sizes



HYMAX GRIP NOMINAL SIZE 4" - 12"									
HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	L (inch)	D (inch)	H (inch)	G - Max Stab Depth (inch)	Bolts Qty Size	Approx. Weight (lbs)	
890-XX-04111-16	4	4.40 - 5.10	11.4	8.7	10.6	5.3	2 - 5/8	32	
890-XX-06165-16	6	6.50 - 7.20	12.8	10.9	12.9	5.9	2 - 5/8	43	
890-XX-08216-16	8	8.50 - 9.40	13.3	13.8	15.7	6.1	2 - 3/4	74	
890-XX-10270-16	10	10.65 - 11.55	13.5	16.2	18.2	6.3	2 - 3/4	92	
890-XX-12322-16	12	12.68 - 13.39	13.5	17.4	19.8	6.3	2 - 3/4	100	

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Service Representative concerning any other application(s).