

HYMAX[®]

a **MUELLER** brand

HYMAX[®] REDUCER (14" - 60")

Product Specifications

FEATURES

- Using the game-changing HYMAX technology, proven in over 1 million installations in the US
- Suitable for all types of pipes - ductile iron, cast iron, steel, copper, PE, PVC, AC, GRP
- Joins pipes of different sizes
- Patented hydraulically-assisted gasket with 2-stage sealing
- Lightweight construction enables fast and easy installation
- Allows 4° dynamic deflection on each end, reducing future pipe damage
- One product can connect pipes of two different materials

SPECIFICATIONS STANDARDS

- HYMAX REDUCER meets or exceeds standards NSF 61, NSF 372.

SIZE

- Available in nominal diameter from 14" - 24" standard.
- 26" - 60" MTO (made to order). Call Mueller for details.

MATERIALS

END RINGS

- 14" - 16" ASTM A283/A283M Grade C steel (or ductile iron casting ASTM A536 Grade 65-45-12).
- 18" - 60" ASTM A283/A283M Grade C steel.



CENTER RING

- 14" - 60" ASTM A283/A283M Grade C steel

GASKETS

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

BRIDGE

- AISI 304 stainless steel.

SPHERICAL SPACERS

- AISI 304 stainless steel.

COATING

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

NUTS AND BOLTS

- AISI 304 stainless steel. Rolled thread and anti-galling coating.



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

- 14" - 18": Up to 4° per side
- > 48": Up to 3° per side

MAXIMUM OFFSET FOR MISALIGNED PIPES

- 14" - 60": 0.51"

MAXIMUM OUT OF ROUNDNESS

- 14" - 60": 0.51"

WORKING PRESSURE

- 14" - 16": 260 psi
- 18" - 24": 232 psi
- 26" - 60": Call Mueller for details.

VACUUM TEST

- 12 psi

*See submittal drawings for details.

PRODUCT TABLES

ND 14" - 24" EPDM

ND (inch)	Torque Side 1 (ft-lb)	Torque Side 2 (ft-lb)
14x16	150	150
16x18	150	150
18x20	150	150
20x24	150	150

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 861-XX

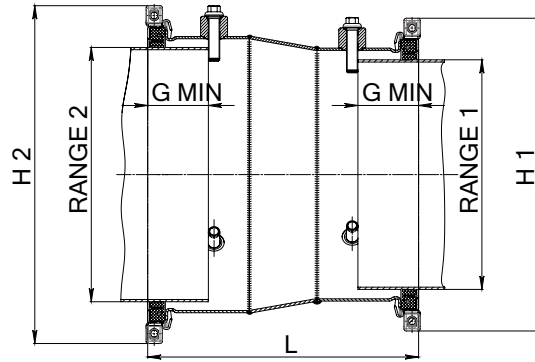
56 - Product with EPDM gasket

57 - Product with NBR gasket

For example:

861XX0054008816 should be read as 861560054008816 for EPDM gasket and 861570054008816 for NBR gasket

PRODUCT TABLES



HYMAX REDUCER NOMINAL SIZES 14" - 24"

HYMAX Part Number	ND (mm)	Overall Range 1 (inch)	Before Removal of the Inner Layer 1 (inch)	After Removal of the Inner Layer 1 (inch)	Overall Range 2 (inch)	Before Removal of the Inner Layer 2 (inch)	After Removal of the Inner Layer 2 (inch)	Bolts Qty. and Size	H1 (inch)	H2 (inch)	L (inch)	Approx. Weight (lbs)
861560378043416	14 x 16	15.00 - 17.10	15.00 - 16.10	16.02 - 17.10	17.10 - 19.20	17.10 - 18.19	18.11 - 19.20	4 - M16	23.2	25.6	23.8	142
861560434048816	16 x 18	17.10 - 19.20	17.10 - 18.19	18.11 - 19.20	19.20 - 21.30	19.20 - 20.29	20.21 - 21.30	4 - M16	25.6	27.8	23.8	162
861560488054016	18 x 20	19.20 - 21.30	19.20 - 20.29	20.21 - 21.30	21.25 - 23.35	21.25 - 22.35	22.27 - 23.35	4 - M16	27.8	29.8	23.8	172
861560540060616	20 x 24	21.25 - 23.35	21.25 - 22.35	22.27 - 23.35	23.85 - 25.95	23.85 - 24.96	24.88 - 25.95	4 - M16	29.8	31.7	23.8	180
861560540062416	20 x 24	21.25 - 23.35	21.25 - 22.35	22.27 - 23.35	24.60 - 26.70	24.60 - 25.67	25.59 - 26.70	4 - M16	29.8	33.2	23.8	182

HYMAX REDUCER NOMINAL SIZES 26" - 60"

26" - 60" - MTO (made to order) is available

To learn more, visit HymaxUSA.com.

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