

# HYMAX<sup>®</sup>

a **MUELLER** brand

## HYMAX<sup>®</sup> 2 REDUCER (1.5" - 12")

### Product Specifications

#### FEATURES

- Advanced wide-range coupling with a patented flip gasket
- Eliminates gasket removal mistakes and maximizes installer work efficiency
- Using the game-changing HYMAX technology, proven in over 1M installations in the US
- Suitable for all types of pipes - ductile iron, cast iron, steel, copper, PE, PVC, AC, GRP
- Patented hydraulically-assisted gasket with 2-stage sealing
- Lightweight construction enables fast and easy installation
- Allows 4° dynamic deflection per side, reducing future pipe damage
- One product can connect pipes of two different materials

#### SPECIFICATIONS STANDARDS

- HYMAX reducer meets or exceeds requirements of standards: AWWA C-219, NSF-61, NSF 372.

#### SIZE

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

#### MATERIALS

##### END RING

- ASTM A283/A283M Grade C steel.

##### CENTER RING

- ASTM A53 Grade A steel.

##### GASKET

- EPDM. 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.
- Average thickness 14 mm

##### NUTS & 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

### DYNAMIC DEFLECTION

- Up to 4° per side

### MIN. PIPE INSERTION

- 2.25"

### MAXIMUM OFFSET FOR MISALIGNED PIPES

- ND 1.5" - 3": 0.39"
- ND 4" - 12": 0.51"

### MAXIMUM OUT OF ROUNDNESS

- ND 1.5": 0.08"
- ND 2" - 3": 0.20"
- ND 4" - 12": 0.31"

### WORKING PRESSURE

- 260 psi

### RATED PRESSURE

- 390 psi

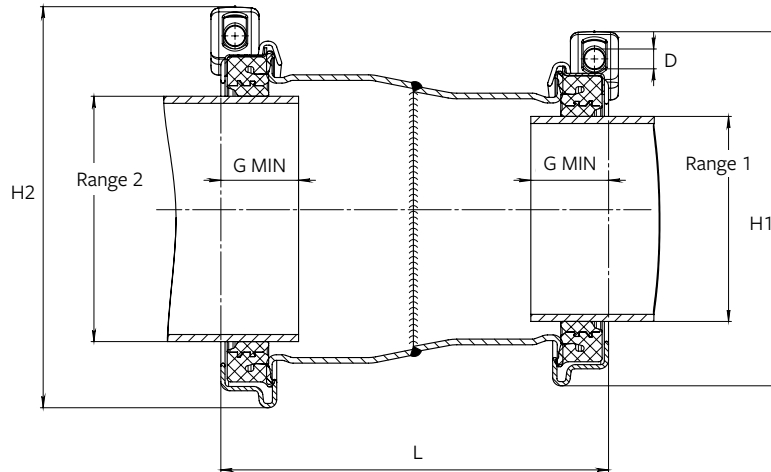
### VACUUM TEST

- 12 psi



\* See submittal drawings for details.

# PRODUCT TABLES



## HYMAX 2 REDUCER NOMINAL SIZES 1.5" - 12"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range 1 (inch)	Closed Gasket Position 1 (inch)	Open Gasket Position 1 (inch)	Overall Range 2 (inch)	Closed Gasket Position 2 (inch)	Open Gasket Position 2 (inch)	Torque Side 1 (ft - lbs)	Torque Side 2 (ft - lbs)	Bolt Qty. and Size	H1 (inch)	H2 (inch)	L (inch)	Approx. Weight (lbs)
861540041005416	1.5 x 2	1.61 - 2.13	1.61 - 1.97	1.96 - 2.13	2.10 - 3.03	2.10 - 2.60	2.56 - 3.03	35	50	2 - M12	5.0	5.7	8.6	7
861540054008816	2 x 3	2.10 - 3.03	2.10 - 2.60	2.56 - 3.03	3.46 - 4.33	3.46 - 3.90	3.86 - 4.33	50	50	2 - M12	5.7	7.1	7.8	9
861540054010816	2 x 4	2.10 - 3.03	2.10 - 2.60	2.56 - 3.03	4.25 - 5.63	4.25 - 5.00	4.92 - 5.63	50	75	2 - M14	5.7	9.3	13.7	15
861540088010816	3 x 4	3.46 - 4.33	3.46 - 3.90	3.86 - 4.33	4.25 - 5.63	4.25 - 5.00	4.92 - 5.63	50	75	2 - M14	7.1	9.3	8.8	13
861540108013016	4 x 5	4.25 - 5.63	4.25 - 5.00	4.92 - 5.63	5.12 - 6.38	5.12 - 5.75	5.71 - 6.38	75	75	2 - M14	9.3	10.0	9.8	16
861540108016316	4 x 6	4.25 - 5.63	4.25 - 5.00	4.92 - 5.63	6.42 - 7.68	6.42 - 7.05	7.01 - 7.68	75	75	2 - M14	9.3	11.3	9.8	20
861540130016316	5 x 6	5.12 - 6.38	5.12 - 5.75	5.71 - 6.38	6.42 - 7.68	6.42 - 7.05	7.01 - 7.68	75	75	2 - M14	10.0	11.3	10.8	20
861540163019016	6 x 7	6.42 - 7.68	6.42 - 7.05	7.01 - 7.68	7.48 - 8.74	7.48 - 8.11	8.07 - 8.74	75	75	2 - M14	11.3	12.2	10.8	22
861540163021716	6 x 8	6.42 - 7.68	6.42 - 7.05	7.01 - 7.68	8.54 - 9.84	8.54 - 9.17	9.13 - 9.84	75	75	2 - M14	11.3	13.1	10.8	24
861540190021716	7 x 8	7.48 - 8.74	7.48 - 8.11	8.07 - 8.74	8.54 - 9.84	8.54 - 9.17	9.13 - 9.84	75	75	2 - M14	12.2	13.1	10.8	26
861540217027216	8 x 10	8.54 - 9.84	8.54 - 9.17	9.13 - 9.84	10.70 - 12.00	10.70 - 11.37	11.33 - 12.00	75	75	2 - M14	13.1	15.6	10.8	29
861540217031516	8 x 12	8.54 - 9.84	8.54 - 9.17	9.13 - 9.84	12.40 - 13.66	12.40 - 13.03	12.99 - 13.66	75	80	2 - M14	13.1	17.5	10.8	47
861540272027816	10 x 10	10.70 - 12.00	10.70 - 11.37	11.33 - 12.00	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	75	75	2 - M14	15.6	15.8	10.8	32
861540272031516	10 x 12	10.70 - 12.00	10.70 - 11.37	11.33 - 12.00	12.40 - 13.66	12.40 - 13.03	12.99 - 13.66	75	80	2 - M14	15.6	17.5	10.8	36
861540278031516	10 x 12	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	12.40 - 13.66	12.40 - 13.03	12.99 - 13.66	75	80	2 - M14	15.8	17.5	10.8	36
861540278033416	10 x 12	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	13.15 - 14.41	13.15 - 13.78	13.74 - 14.41	75	80	2 - M14	15.8	18.1	10.8	36
861540315033416	12 x 12	12.40 - 13.66	12.40 - 13.03	12.99 - 13.66	13.15 - 14.41	13.15 - 13.78	13.74 - 14.41	80	80	2 - M14	17.5	18.1	10.8	37

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