



HYMAX REDUCER

(1.5"-60")



PRODUCT SPECIFICATIONS

FEATURES

- 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
- 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 AWWA C-219, NSF 61, NSF 372.

SIZE

AVAILABLE IN NOMINAL DIAMETERS FROM 1.5"-24" STANDARD. 26"-60" MTO (MADE TO ORDER). CALL KRAUSZ FOR DETAILS.

MATERIALS

END RINGS

1.5"-12" - ASTM A283 / A 283M GRADE C STEEL.
14" - 16" - ASTM A283 / A 283M GRADE C STEEL.
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18)
18" - 60" - ASTM A283 / A283M GRADE C STEEL.

CENTER RING

1.5" - 12" - ASTM A53 GRADE A STEEL.
14" - 60" - ASTM A283 / A283M GRADE C STEEL.

GASKETS

EPDM COMPOUNDED FOR WATER AND SEWERAGE, MEETS INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

BRIDGE

AISI 304 STAINLESS STEEL.

SPHERICAL SPACERS

AISI 304L STAINLESS STEEL.

COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. NOMINAL THICKNESS 14 MIL.

NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE	-20°F UP TO +125°F			
DYNAMIC DEFLECTION	UP TO 4° PER SIDE			
MIN. PIPE INSERTION	1.5" - 12" 2.25"	14" - 60" 4"		
MAXIMUM OFFSET FOR MISALIGNED PIPE	1.5" - 3" 0.39"	4" - 60" 0.51"		
MAXIMUM OUT OF ROUNDNESS	2"-3" 0.20"	4" - 12" 0.31"	14" - 60" 0.51"	1.5" 0.08"
WORKING PRESSURE	1.5" - 16" 260 PSI	18" - 24" 232 PSI	26" - 60" CALL KRAUSZ FOR DETAILS	
RATED PRESSURE	1.5" - 16" 390 PSI	18" - 24" 350 PSI	26" - 60" CALL KRAUSZ FOR DETAILS	
VACUUM TEST	12 PSI.			

* SEE SUBMITTAL DRAWINGS FOR DETAILS.

PRODUCT TABLES

HYMAX REDUCER NOMINAL SIZES 1.5"-12"

Krausz Part Number	Nominal Diameter (inch)	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 Num. and Size (mm)	Torque Side 1 (Ft-Lbs)	Torque Side 2 (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (lbs)
861560041005416	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	2 - M12	35	50	260	390	7.5
861560054008816	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	2 - M12	50	50	260	390	9
861560088010816	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	2 - M14	50	65	260	390	13.2
861560108013016	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	2 - M14	65	65	260	390	16.2
861560108016316	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	2 - M14	65	65	260	390	19.8
861560130016316	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	2 - M14	65	65	260	390	19.8
861560130019016	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	2 - M14	65	65	260	390	22.3
861560163021716	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	2 - M14	65	65	260	390	24.3
861560190021716	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	2 - M14	65	65	260	390	26.4
861560217027216	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	2 - M14	65	65	260	390	28.6
861560217027816	8" x 10"	8.54-9.84	8.54-9.17	9.13-9.84	10.96-12.26	10.96-11.63	11.59-12.26	2 - M14	65	65	260	390	32
861560272031516	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	2 - M14	65	65	260	390	35.6
861560278031516	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	2 - M14	65	65	260	390	35.6
861560315033416	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	2 - M14	65	65	260	390	36.5

PRODUCT TABLES

HYMAX REDUCER NOMINAL SIZES 12"-14"

Krausz Part Number	Nominal Diameter (inch)	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 Num. and Size (mm)	Torque Side 1 (Ft-Lbs)	Torque Side 2 (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
861560315035316	12" x 14"	12.40-13.66	12.40-13.03	12.99-13.66	13.90-16.00	13.90-15.00	14.92-16.00	1-M14 2-M16	65	150	260	390	90
861560315037816	12" x 14"	12.40-13.66	12.40-13.03	12.99-13.66	15.00-17.10	15.00-16.10	16.02-17.10	1-M14 2-M16	65	150	260	390	100
861560334037816	12" x 14"	13.15-14.41	13.15-13.78	13.74-14.41	15.00-17.10	15.00-16.10	16.02-17.10	1-M14 2-M16	65	150	260	390	100

HYMAX REDUCER NOMINAL SIZES 14"-24"

Krausz Part Number	Nominal Diameter (inch)	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 Num. and Size (mm)	Torque Side 1 (Ft-Lbs)	Torque Side 2 (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	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	150	150	260	390	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	150	150	232	350	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	150	150	232	350	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	150	150	232	350	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	150	150	232	350	182

HYMAX REDUCER NOMINAL SIZES 26"-60"

26"-60" - MTO (MADE TO ORDER) IS AVAILABLE