

HYMAX[®]

a **MUELLER** brand

HYMAX VERSA[®] COUPLING (1.5" - 80")

Product Specifications

FEATURES

- Unique versatile coupling, can be stab fit or wrapped around pipe
- Durable stainless steel, monoblock design
- Allows 3° dynamic deflection per end, reducing future pipe damage
- Fast and easy to install
- Substantially reduces inventory
- Durable under extreme conditions
- 1.5" - 24": One closing mechanism. 26" - 80": Two closing mechanisms
- Available in standard and high-pressure versions

SPECIFICATIONS STANDARDS

- HYMAX Versa meets or exceeds standards AWWA C219, AWWA C227, NSF 61, NSF 372, EN 681.

SIZE LENGTH

- Available in nominal diameter range of 1.5" - 24" standard.
- 26" - 80" MTO (Made To Order).
- Currently sizes 1.5" - 3" are available in 5.5" And 11" lengths. Sizes 4" - 80" are available in 11" length.

MATERIALS BODY

- Stainless steel AISI 304.



LUG MATERIAL

- 1.5" - 12": Polycarbonate.
- 14" - 80": Reg. Pressure retainers made of polycarbonate.
- 14" - 80": High Pressure retainers made of stainless steel casting type AISI 304 (ASTM A351 CF8).

COMPRESSION BEAM & ADJUSTING PIN

- Casting AISI 304/304L OF ASTM A351 CF8.

GASKET

- EPDM compounded for water and sewerage, meets international standards for contact with drinking water.

GASKET BRIDGE

- AISI 304 stainless steel.

INNER PLATE

- AISI 304 stainless steel.

INNER PLATE ATTACHMENT

- 1.5" - 24": Connected to the body by reinforced bolts manufactured of ultem resin 1000 with insert socket set screw AISI 316.
- 24" - 80": AISI 304 stainless steel (special bolts, nuts and washers).



JOIN



REPAIR



RESTRAIN



TAP

MUELLER

NUTS AND BOLTS

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

PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE

- -20° F up to +180° F

DYNAMIC DEFLECTION

- 3° on each side

TRANSITION CAPABILITY

- Up to 0.4". See submittal drawings for details.

MIN. PIPE INSERTION

- From 1.8" - 3". See submittal drawings for details.

MAX. WIDTH OF CRACK OR HOLE

Product Length (inch)	Width of Crack (inch)
5.5	2.5
11	8

MAX. OUT OF ROUNDNESS

- 1.5" - 5": 0.24"
- 6" - 24": 0.31"
- 26" - 80": 0.2"

MAXIMUM OFFSET FOR MISALIGNED PIPES

- Up to 0.25" in length 5.5"
- Up to 0.4" in length 11"

PRODUCT TABLES

HYMAX VERSA NOMINAL SIZES 1.5" - 3"/LENGTH 5.5"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
111-56-0045-16	1.5	1.77 - 2.24	2 - M12	35	232
111-56-0052-16	2	2.05 - 2.52	2 - M12	35	232
111-56-0059-16	2	2.32 - 2.79	2 - M12	35	232
111-56-0071-16	2.5	2.79 - 3.31	2 - M12	35	232
111-56-0081-16	3	3.19 - 3.67	2 - M12	35	232

HYMAX VERSA NOMINAL SIZES 1.5" - 3"/LENGTH 5.5" HIGH PRESSURE

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
111-56-0045-24	1.5	1.77 - 2.24	2 - M12	35	348
111-56-0052-24	2	2.05 - 2.52	2 - M12	35	348
111-56-0059-24	2	2.32 - 2.79	2 - M12	35	348
111-56-0071-24	2.5	2.79 - 3.31	2 - M12	35	348
111-56-0081-24	3	3.19 - 3.67	2 - M12	35	348

HYMAX VERSA NOMINAL SIZES 1.5" - 3"/LENGTH 11"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
113-56-0045-16	1.5	1.77 - 2.24	4 - M12	35	232
113-56-0052-16	2	2.05 - 2.52	4 - M12	35	232
113-56-0059-16	2	2.32 - 2.79	4 - M12	35	232
113-56-0071-16	2.5	2.79 - 3.31	4 - M12	35	232
113-56-0081-16	3	3.19 - 3.67	4 - M12	35	232

PRODUCT TABLES

HYMAX VERSA NOMINAL SIZES 1.5" - 3"/LENGTH 11" HIGH PRESSURE

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
113-56-0045-24	1.5	1.77 - 2.24	4 - M12	35	348
113-56-0052-24	2	2.05 - 2.52	4 - M12	35	348
113-56-0059-24	2	2.32 - 2.79	4 - M12	35	348
113-56-0071-24	2.5	2.79 - 3.31	4 - M12	35	348
113-56-0081-24	3	3.19 - 3.67	4 - M12	35	348

HYMAX VERSA NOMINAL SIZES 3" - 5"/LENGTH 11"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
283-56-0087-16	3	3.42 - 4.3	4 - M14	50	232
283-56-0108-16	4	4.25 - 5.15	4 - M14	50	232
283-56-0113-16	4	4.44 - 5.35	4 - M14	50	232
283-56-0121-16	4	4.76 - 5.67	4 - M14	50	232
283-56-0138-16	5	5.43 - 6.3	4 - M14	50	232
283-56-0147-16	5	5.78 - 6.65	4 - M14	50	232

HYMAX VERSA NOMINAL SIZES 3" - 5"/LENGTH 11" HIGH PRESSURE

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
283-56-0087-24	3	3.42 - 4.3	4 - M14	60	348
283-56-0108-24	4	4.25 - 5.15	4 - M14	60	348
283-56-0113-24	4	4.44 - 5.35	4 - M14	60	348
283-56-0121-24	4	4.76 - 5.67	4 - M14	60	348
283-56-0138-24	5	5.43 - 6.3	4 - M14	60	348
283-56-0147-24	5	5.78 - 6.65	4 - M14	60	348

HYMAX VERSA NOMINAL SIZES 6" - 12"/LENGTH 11"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before Removal of the Inner Layer (inch)	After Removal of the Inner Layer (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
283-56-0163-12	6	6.42 - 7.68	6.42 - 7.12	7.01 - 7.68	4 - M14	65	175
283-56-0190-12	7	7.48 - 8.74	7.48 - 8.11	8.07 - 8.74	4 - M14	65	175
283-56-0217-12	8	8.54 - 9.84	8.54 - 9.3	9.13 - 9.84	4 - M14	65	175
283-56-0248-12	10	9.76 - 11.02	9.76 - 10.39	10.35 - 11.02	4 - M14	65	175
283-56-0272-12	10	10.7 - 12	10.7 - 11.37	11.33 - 12	4 - M16	80	175
283-56-0278-12	10	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	4 - M16	80	175
283-56-0320-12	12	12.58 - 13.84	12.58 - 13.21	13.15 - 13.84	4 - M16	80	175
283-56-0334-12	12	13.15 - 14.41	13.15 - 13.78	13.74 - 14.41	4 - M16	80	175

PRODUCT TABLES

HYMAX VERSA NOMINAL SIZES 6" - 12"/LENGTH 11" HIGH PRESSURE

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before Removal of the Inner Layer (inch)	After Removal of the Inner Layer (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
283-56-0163-16	6	6.42 - 7.68	6.42 - 7.12	7.01 - 7.68	4 - M14	90	232
283-56-0190-16	7	7.48 - 8.74	7.48 - 8.11	8.07 - 8.74	4 - M14	90	232
283-56-0217-16	8	8.54 - 9.84	8.54 - 9.3	9.13 - 9.84	4 - M14	90	232
283-56-0248-16	10	9.76 - 11.02	9.76 - 10.39	10.35 - 11.02	4 - M14	100	232
283-56-0272-16	10	10.7 - 12	10.7 - 11.37	11.33 - 12	4 - M16	100	232
283-56-0278-16	10	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	4 - M16	100	232
283-56-0320-16	12	12.58 - 13.84	12.58 - 13.21	13.15 - 13.84	4 - M16	100	232
283-56-0334-16	12	13.15 - 14.41	13.15 - 13.78	13.74 - 14.41	4 - M16	100	232

HYMAX VERSA NOMINAL SIZES 14" - 24"/LENGTH 11"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before Removal of the Inner Layer (inch)	After Removal of the Inner Layer (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
283-56-0387-12	14	15.22 - 16.48	15.22 - 15.85	15.84 - 16.48	4 - M16	90	175
283-56-0398-12	14	15.69 - 16.95	15.69 - 16.32	16.31 - 16.95	4 - M16	90	175
283-56-0435-12	16	17.11 - 18.37	17.11 - 17.74	17.73 - 18.37	4 - M16	90	175
283-56-0440-12	16	17.32 - 18.66	17.32 - 17.95	17.90 - 18.66	4 - M16	110	175
283-56-0481-12	16	18.93 - 20.20	18.93 - 19.56	19.55 - 20.20	4 - M16	110	175
283-56-0493-12	18	19.42 - 20.68	19.42 - 20.06	20.05 - 20.68	4 - M16	110	175
283-56-0531-12	18	20.90 - 22.16	20.90 - 21.53	21.52 - 22.16	4 - M16	110	175
283-56-0562-12	20	22.14 - 23.40	22.14 - 22.77	22.76 - 23.40	4 - M16	150	175
283-56-0599-12	20	23.60 - 24.86	23.60 - 24.24	24.22 - 24.86	4 - M16	150	175
283-56-0634-11	24	24.98 - 26.24	24.98 - 25.61	25.60 - 26.24	4 - M16	150	160
283-56-0653-11	24	25.72 - 26.98	25.72 - 26.37	26.35 - 26.98	4 - M16	150	160
283-56-0688-11	24	27.08 - 28.36	27.08 - 27.71	27.70 - 28.36	4 - M16	150	160

HYMAX VERSA NOMINAL SIZES 14" - 24"/LENGTH 11" HIGH PRESSURE

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before Removal of the Inner Layer (inch)	After Removal of the Inner Layer (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
283-56-0387-165	14	15.22 - 16.48	15.22 - 15.85	15.84 - 16.48	4 - M16	105	232
283-56-0398-165	14	15.69 - 16.95	15.69 - 16.32	16.31 - 16.95	4 - M16	105	232
283-56-0435-165	16	17.11 - 18.37	17.11 - 17.74	17.73 - 18.37	4 - M16	105	232
283-56-0440-165	16	17.32 - 18.66	17.32 - 17.95	17.90 - 18.66	4 - M16	125	232
283-56-0481-165	16	18.93 - 20.20	18.93 - 19.56	19.55 - 20.20	4 - M16	125	232
283-56-0493-165	18	19.42 - 20.68	19.42 - 20.06	20.05 - 20.68	4 - M16	125	232
283-56-0531-165	18	20.90 - 22.16	20.90 - 21.53	21.52 - 22.16	4 - M16	125	232
283-56-0562-165	20	22.14 - 23.40	22.14 - 22.77	22.76 - 23.40	4 - M16	160	232
283-56-0599-165	20	23.60 - 24.86	23.60 - 24.24	24.22 - 24.86	4 - M16	160	232
283-56-0634-165	24	24.98 - 26.24	24.98 - 25.61	25.60 - 26.24	4 - M16	160	232
283-56-0653-165	24	25.72 - 26.98	25.72 - 26.37	26.35 - 26.98	4 - M16	160	232
283-56-0688-165	24	27.08 - 28.36	27.08 - 27.71	27.70 - 28.36	4 - M16	160	232

PRODUCT TABLES

HYMAX VERSA NOMINAL SIZES 26" - 80"/LENGTH 11"

Made to Order Request	Nominal Diameter (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (psi)
Available in all size variations while keeping a range of 0.4"	26 - 28	8 - M16	100	100
	28 - 38	8 - M16	165	100
	38 - 48	8 - M16	200	72
	48 - 54	8 - M16	200	58
	54 - 66	8 - M16	200	43
	66 - 80	8 - M16	200	29

HYMAX VERSA NOMINAL SIZES 26" - 80"/LENGTH 11" HIGH PRESSURE

Made to Order Request	Nominal Diameter (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (psi)
Available in all size variations while keeping a range of 0.4"	26 - 28	8 - M16	115	232
	28 - 30	8 - M16	190	203
	30 - 34	8 - M16	190	174
	34 - 38	8 - M16	190	150
	38 - 42	8 - M16	210	150
	42 - 50	8 - M16	210	116
	50 - 54	8 - M16	210	87
	54 - 66	8 - M16	210	72
	66 - 80	8 - M16	210	58

PRODUCT TABLES

HYMAX VERSA NOMINAL SIZES 16" - 80"/LENGTH 18"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
356--56-0440-16S	16	17.32-18.19	M16 - 12	150	232
356--56-0451-16S	16	17.75-18.62	M16 - 12	150	232
356--56-0547-16S	20	21.52-22.39	M16 - 12	150	232
356--56-0565-16S	20	22.23-23.10	M16 - 12	150	232
356--56-0653-16S	24	25.72-26.59	M16 - 12	150	232
156-56-0755-12S	30	29.72-30.32	M16 - 12	150	203
156-56-0808-12S	30	31.81-32.41	M16 - 12	150	174
156-56-0810-12S	30	31.90-32.50	M16 - 12	150	174
156-56-0820-12S	30	32.30-32.90	M16 - 12	150	174
156-56-0909-10S	36	35.79-36.39	M16 - 12	150	150
156-56-0970-10S	36	38.20-38.80	M16 - 12	150	150
156-56-1128-08S	42	44.40-45.00	M16 - 12	150	120
156-56-1143-08S	42	45.00-45.60	M16 - 12	150	120
156-56-1285-06S	48	50.59-51.19	M16 - 12	150	87

All other sizes and high-pressure requirements are available as Made-To -Order.

HYMAX VERSA NOMINAL SIZES 24" - 80"/LENGTH 24"

HYMAX Part Number	Nominal Diameter (inch)	Overall Range (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (PSI)
357-56-0653-16S	24	25.72-26.59	M16 - 16	150	232
157-56-0755-12S	30	29.72-30.32	M16 - 16	150	174
157-56-0808-12S	30	31.81-32.41	M16 - 16	150	174
157-56-0909-10S	36	35.79-36.39	M16 - 16	150	150
157-56-0968-10S	36	38.11-38.71	M16 - 16	150	150
157-56-1125-08S	42	44.28-44.88	M16 - 16	150	120
157-56-1285-06S	48	50.59-51.19	M16 - 16	150	87
157-56-1519-05S	60	59.79-60.39	M16 - 16	150	72

All other sizes and high-pressure requirements are available as Made-To -Order.

To learn more, visit HymaxUSA.com.

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