

HYMAX[®]

a **MUELLER** brand

HYMAX[®] VERSA COUPLING (1.5" - 70")

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" - 70": 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" - 70" MTO (Made To Order).
- Currently sizes 1.5" - 3" are available in 5.5" And 11" lengths. Sizes 4" - 70" are available in 11" length.

MATERIALS BODY

- Stainless steel AISI 304.



LUG MATERIAL

- 1.5" - 12": Polycarbonate.
- 14" - 70": Reg. Pressure retainers made of polycarbonate.
- 14" - 70": 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" - 70": 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) | 5.5 | 11
- Width of crack (inch) | 2.5 | 8

MAX. OUT OF ROUNDNESS

- 1.5" - 5": 0.24"
- 6" - 24": 0.31"
- 26" - 70": 0.2"

MAXIMUM OFFSET FOR MISALIGNED PIPES

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

WORKING PRESSURE

	1.5" - 5"	6" - 20"	24"	26" - 70"	
	Working Pressure	Working Pressure	Working Pressure		See submittal drawings for details.
Reg. Pressure	232	175	160		
High Pressure	348	232	232		

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)	Size (mm)
111-56-0045-16	1.5	1.77 - 2.24	2 - M12	35	4.23
111-56-0052-16	2	2.05 - 2.52	2 - M12	35	4.34
111-56-0059-16	2	2.32 - 2.79	2 - M12	35	4.5
111-56-0071-16	2.5	2.79 - 3.31	2 - M12	35	4.72
111-56-0081-16	3	3.19 - 3.67	2 - M12	35	4.83

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)	Size (mm)
111-56-0045-24	1.5	1.77 - 2.24	2 - M12	35	4.45
111-56-0052-24	2	2.05 - 2.52	2 - M12	35	4.61
111-56-0059-24	2	2.32 - 2.79	2 - M12	35	4.78
111-56-0071-24	2.5	2.79 - 3.31	2 - M12	35	5.07
111-56-0081-24	3	3.19 - 3.67	2 - M12	35	5.14

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)	Size (mm)
113-56-0045-16	1.5	1.77 - 2.24	4 - M12	35	8.6
113-56-0052-16	2	2.05 - 2.52	4 - M12	35	8.82
113-56-0059-16	2	2.32 - 2.79	4 - M12	35	9.26
113-56-0071-16	2.5	2.79 - 3.31	4 - M12	35	9.7
113-56-0081-16	3	3.19 - 3.67	4 - M12	35	9.92

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)	Size (mm)
113-56-0045-24	1.5	1.77 - 2.24	4 - M12	35	9.04
113-56-0052-24	2	2.05 - 2.52	4 - M12	35	9.26
113-56-0059-24	2	2.32 - 2.79	4 - M12	35	9.7
113-56-0071-24	2.5	2.79 - 3.31	4 - M12	35	10.14
113-56-0081-24	3	3.19 - 3.67	4 - M12	35	10.36

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)	Size (mm)
283-56-0087-16	3	3.42 - 4.3	4 - M14	50	15.2
283-56-0108-16	4	4.25 - 5.15	4 - M14	50	16.1
283-56-0113-16	4	4.44 - 5.35	4 - M14	50	16.3
283-56-0121-16	4	4.76 - 5.67	4 - M14	50	16.5
283-56-0138-16	5	5.43 - 6.3	4 - M14	50	18.5
283-56-0147-16	5	5.78 - 6.65	4 - M14	50	19

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)	Size (mm)
283-56-0087-24	3	3.42 - 4.3	4 - M14	60	16.2
283-56-0108-24	4	4.25 - 5.15	4 - M14	60	17.2
283-56-0113-24	4	4.44 - 5.35	4 - M14	60	17.44
283-56-0121-24	4	4.76 - 5.67	4 - M14	60	17.7
283-56-0138-24	5	5.43 - 6.3	4 - M14	60	18.5
283-56-0147-24	5	5.78 - 6.65	4 - M14	60	19

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)
283-56-0163-12	6	6.42 - 7.68	6.42 - 7.12	7.01 - 7.68	4 - M14	65
283-56-0190-12	7	7.48 - 8.74	7.48 - 8.11	8.07 - 8.74	4 - M14	65
283-56-0217-12	8	8.54 - 9.84	8.54 - 9.3	9.13 - 9.84	4 - M14	65
283-56-0248-12	10	9.76 - 11.02	9.76 - 10.39	10.35 - 11.02	4 - M14	65
283-56-0272-12	10	10.7 - 12	10.7 - 11.37	11.33 - 12	4 - M16	80
283-56-0278-12	10	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	4 - M16	80
283-56-0320-12	12	12.58 - 13.84	12.58 - 13.21	13.15 - 13.84	4 - M16	80
283-56-0334-12	12	13.15 - 14.41	13.15 - 13.78	13.74 - 14.41	4 - M16	80

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)
283-56-0163-16	6	6.42 - 7.68	6.42 - 7.12	7.01 - 7.68	4 - M14	90
283-56-0190-16	7	7.48 - 8.74	7.48 - 8.11	8.07 - 8.74	4 - M14	90
283-56-0217-16	8	8.54 - 9.84	8.54 - 9.3	9.13 - 9.84	4 - M14	90
283-56-0248-16	10	9.76 - 11.02	9.76 - 10.39	10.35 - 11.02	4 - M14	100
283-56-0272-16	10	10.7 - 12	10.7 - 11.37	11.33 - 12	4 - M16	100
283-56-0278-16	10	10.96 - 12.26	10.96 - 11.63	11.59 - 12.26	4 - M16	100
283-56-0320-16	12	12.58 - 13.84	12.58 - 13.21	13.15 - 13.84	4 - M16	100
283-56-0334-16	12	13.15 - 14.41	13.15 - 13.78	13.74 - 14.41	4 - M16	100

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)
283-56-0387-12	14	15.22 - 16.48	15.22 - 15.85	15.84 - 16.48	4 - M16	90
283-56-0398-12	14	15.69 - 16.95	15.69 - 16.32	16.31 - 16.95	4 - M16	90
283-56-0435-12	16	17.11 - 18.37	17.11 - 17.74	17.73 - 18.37	4 - M16	90
283-56-0440-12	16	17.32 - 18.66	17.32 - 17.95	17.90 - 18.66	4 - M16	110
283-56-0481-12	16	18.93 - 20.20	18.93 - 19.56	19.55 - 20.20	4 - M16	110
283-56-0493-12	18	19.42 - 20.68	19.42 - 20.06	20.05 - 20.68	4 - M16	110
283-56-0531-12	18	20.90 - 22.16	20.90 - 21.53	21.52 - 22.16	4 - M16	110
283-56-0562-12	20	22.14 - 23.40	22.14 - 22.77	22.76 - 23.40	4 - M16	150
283-56-0599-12	20	23.60 - 24.86	23.60 - 24.24	24.22 - 24.86	4 - M16	150
283-56-0634-11	24	24.98 - 26.24	24.98 - 25.61	25.60 - 26.24	4 - M16	150
283-56-0653-11	24	25.72 - 26.98	25.72 - 26.37	26.35 - 26.98	4 - M16	150
283-56-0688-11	24	27.08 - 28.36	27.08 - 27.71	27.70 - 28.36	4 - M16	150

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)
283-56-0387-165	14	15.22 - 16.48	15.22 - 15.85	15.84 - 16.48	4 - M16	105
283-56-0398-165	14	15.69 - 16.95	15.69 - 16.32	16.31 - 16.95	4 - M16	105
283-56-0435-165	16	17.11 - 18.37	17.11 - 17.74	17.73 - 18.37	4 - M16	105
283-56-0440-165	16	17.32 - 18.66	17.32 - 17.95	17.90 - 18.66	4 - M16	125
283-56-0481-165	16	18.93 - 20.20	18.93 - 19.56	19.55 - 20.20	4 - M16	125
283-56-0493-165	18	19.42 - 20.68	19.42 - 20.06	20.05 - 20.68	4 - M16	125
283-56-0531-165	18	20.90 - 22.16	20.90 - 21.53	21.52 - 22.16	4 - M16	125
283-56-0562-165	20	22.14 - 23.40	22.14 - 22.77	22.76 - 23.40	4 - M16	160
283-56-0599-165	20	23.60 - 24.86	23.60 - 24.24	24.22 - 24.86	4 - M16	160
283-56-0634-165	24	24.98 - 26.24	24.98 - 25.61	25.60 - 26.24	4 - M16	160
283-56-0653-165	24	25.72 - 26.98	25.72 - 26.37	26.35 - 26.98	4 - M16	160
283-56-0688-165	24	27.08 - 28.36	27.08 - 27.71	27.70 - 28.36	4 - M16	160

PRODUCT TABLES

HYMAX VERSA NOMINAL SIZES 26" - 70"/LENGTH 11"

Per Request	Nominal Diameter (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (psi)	Rated Pressure (psi)
Available in all size variations while keeping a range of 0.4"	26 - 28	8 - M16	100	100	150
	28 - 38	8 - M16	165	100	150
	38 - 48	8 - M16	200	72	108
	48 - 54	8 - M16	200	58	87
	54 - 66	8 - M16	200	43	64
	66 - 70	8 - M16	200	29	43

HYMAX VERSA NOMINAL SIZES 26" - 70"/LENGTH 11" HIGH PRESSURE

Per Request	Nominal Diameter (inch)	Bolt Qty. and Size (mm)	Torque (ft-lbs)	Working Pressure (psi)	Rated Pressure (psi)
Available in all size variations while keeping a range of 0.4"	26 - 28	8 - M16	115	232	348
	28 - 30	8 - M16	190	203	305
	30 - 34	8 - M16	190	174	260
	34 - 38	8 - M16	190	150	220
	38 - 42	8 - M16	210	150	220
	42 - 50	8 - M16	210	116	174
	50 - 54	8 - M16	210	87	130
	54 - 66	8 - M16	210	72	108
	66 - 70	8 - M16	210	58	87

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