

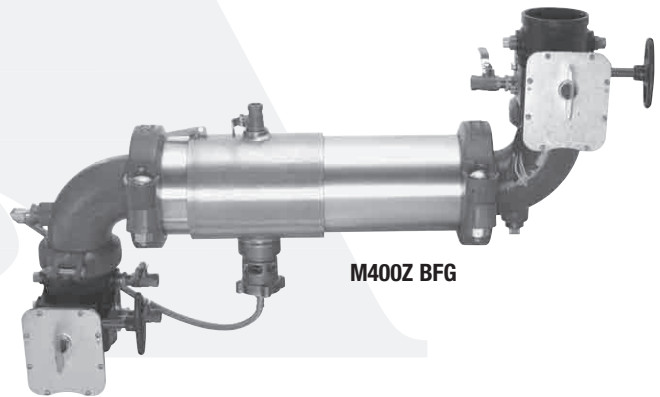
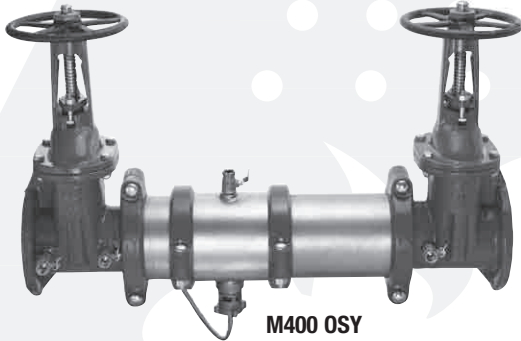


Maxim™ Series M400, M400N, M400Z

Reduced Pressure Zone Assemblies

Sizes: 2 1/2" – 10" (65 – 250mm)

LEAD FREE*



Features

- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- Available for Horizontal or N Pattern Installations
- Replaceable Check Disc Rubber

The Maxim M400, M400N, M400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Maxim 400, 400N, 400Z are normally used in health hazard applications for protection against backsiphonage, backpressure and the fouling of either check valve.

Specifications

The Reduced Pressure Zone Assemblies shall consist of two independent Link Check modules, a differential pressure relief valve located between and below the two modules, two drip tight shut-off valves, and required test cocks. Link Check modules and the relief valve shall be contained within a sleeve accessible single housing constructed from 304 (Schedule 40) stainless steel pipe with groove end connections. Link Checks shall have reversible elastomer discs and in operation produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage. Assembly shall be Maxim M400, M400N, M400Z as manufactured by the Ames Company.

*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Ames product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Technical Service. Ames reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames products previously or subsequently sold.

Configurations

- Horizontal
- “Z” pattern horizontal
- “N” pattern horizontal

Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna ‘N’
- Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Available Models

- NRS - non-rising stem resilient seated gate valves
- OSY - UL/FM outside stem and yoke resilient seated gate valves
- BFG - UL/FM grooved gear operated butterfly valves w/tamper switch

*OSY FxG - Flanged inlet gate connection and grooved outlet gate connection

*OSY GxF - Grooved inlet gate connection and flanged outlet gate connection

*OSY GxG - Grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory*
 Post indicator plate and operating nut available - consult factory*
 *Consult factory for dimensions

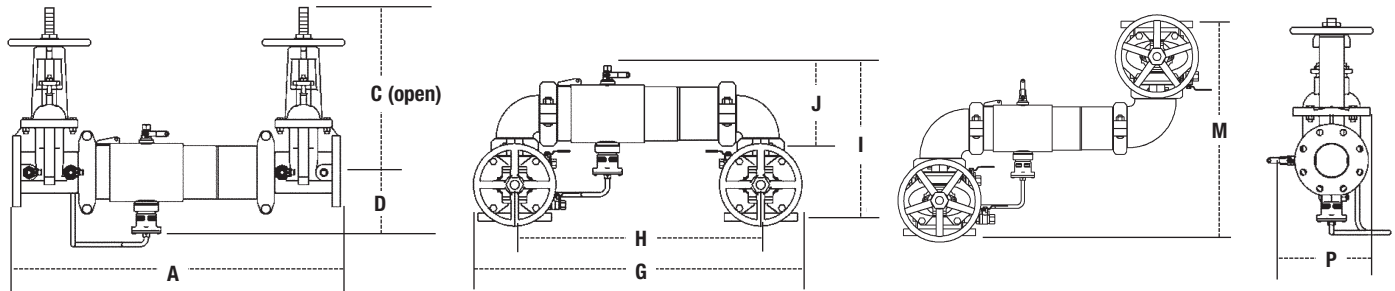
Pressure — Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C)

Maximum Working Pressure: 175psi (12.1 bar)

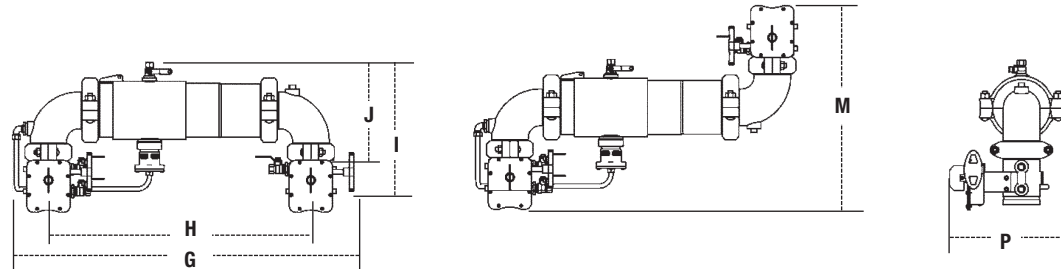
Note: When installing a drain line on Series M400 backflow preventer use 400, 500 air gap. See ES-A-AG/EL/TC for additional information.

Dimensions — Weights



M400, M400N, M400Z

SIZE (DN)		DIMENSIONS										WEIGHT					
A	C (OSY)	C (NRS)	D	H	I	P	M	G	J	M400SY	M400NRS	M400OSY	M400NRS	lbs. kgs.		lbs. kgs.	
in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs. kgs.	lbs. kgs.	lbs. kgs.	lbs. kgs.
2½ 65	31 787	16¾ 416	9¾ 238	6½ 165	22 559	15¾ 395	9¾ 238	18½ 459	29½ 749	8½ 216	223	128 58	118 54	136 62	126 57		
3 80	31½ 805	18¾ 479	10¼ 260	6½ 170	22¾ 578	16¼ 413	10½ 271	19¾ 497	30½ 775	9¾ 233	233	148 67	134 61	161 73	147 67		
4 100	40½ 1029	22¾ 578	12¾ 310	8 203	30¾ 768	19¾ 500	11¾ 287	21½ 546	39¾ 1010	11 280	222 101	222 101	245 111	245 111			
6 150	48¾ 1224	30¾ 765	16 406	9½ 241	38 965	23¾ 580	15½ 394	28¾ 719	49 1244	14¾ 358	393 178	371 168	433 196	411 186			
8 200	55 1397	37¾ 959	9¾ 241	10½ 267	45¾ 1159	27¾ 690	17¾ 448	36¾ 924	59¾ 1502	16¾ 425	567 257	525 238	643 292	601 273			
10 250	57½ 1460	45¾ 1162	23¾ 605	11¾ 285	50 1270	32½ 825	20¾ 516	44¾ 1133	66 1676	17¾ 440	784 784	724 356	954 433	894 406			



M400NBF, M400ZBF

SIZE (DN)		DIMENSIONS				WEIGHT									
		H		I		P		M		G		J		lbs. kgs.	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	65	23½	597	15½	398	11½	300	22¾	580	32½	825	9½	242	67	30
3	80	24½	622	16¾	415	12½	308	23¾	600	34	864	10½	255	70	32
4	100	32¾	832	18¾	466	13¾	354	24¾	633	42½	1080	12	305	145	66
6	150	40	1016	21¾	553	16¾	418	28¾	718	50¾	1291	15¾	386	254	115

Approvals



For additional approval information please contact the factory or visit our website at www.amesfirewater.com

Capacity

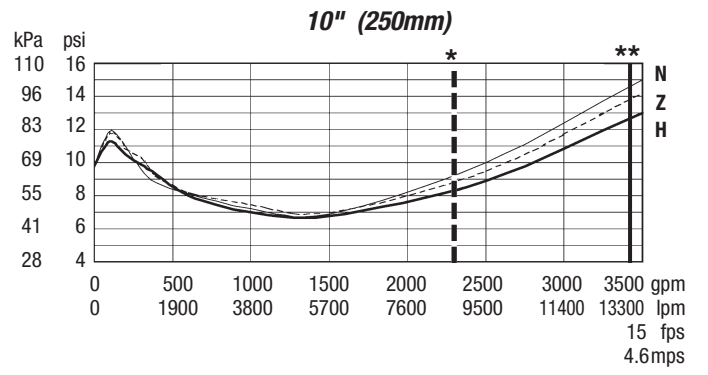
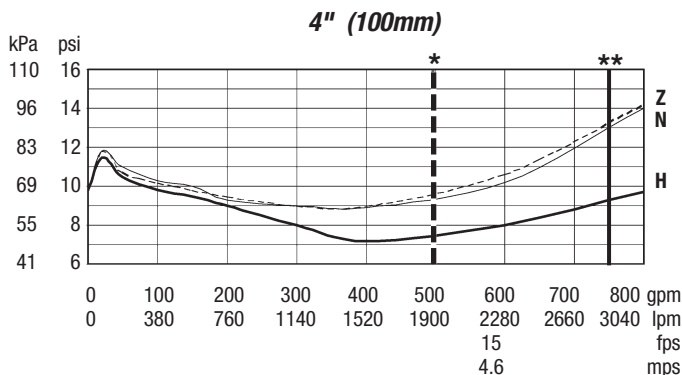
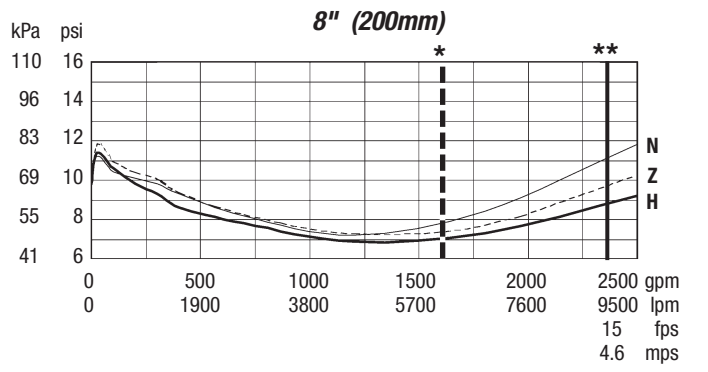
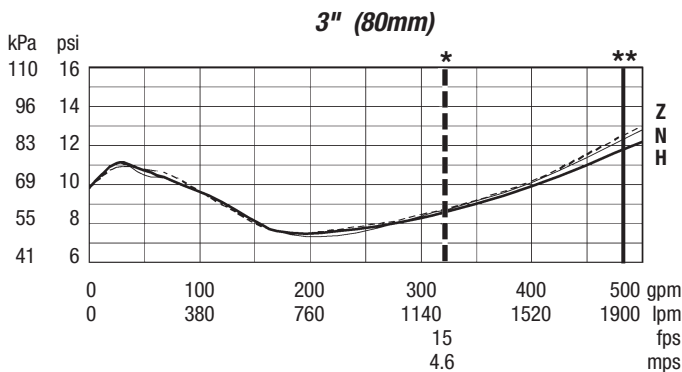
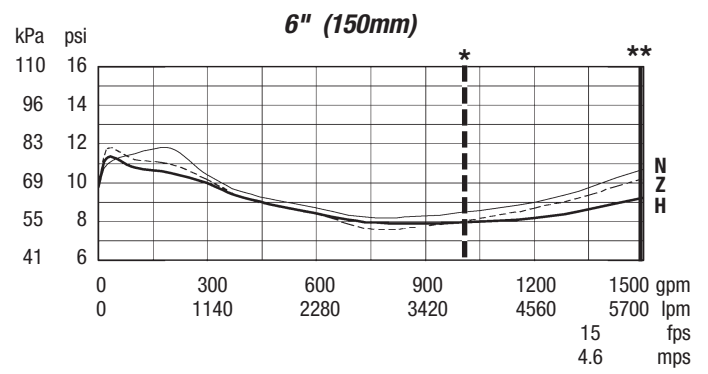
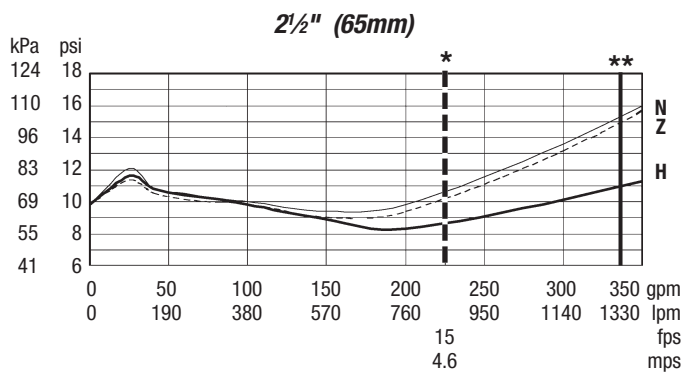
UL/FM Certified Flow Characteristics

Flow characteristics collected using butterfly shutoff valves.

See literature S-MAXIM-400, 500 for gate valve flow characteristics

* = Rated flow ** = UL Tested

— Horizontal — N-Pattern - - - - Z-Pattern



IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS

For additional information, visit our web site at: www.amesfirewater.com



www.amesfirewater.com



A Watts Water Technologies Company

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Control Valves- 18550 Hansen Road • Houston, TX 77075 • T: 713-943-0688 • F: 713-944-9445

Canada: 5435 North Service Rd. • Burlington, ONT. L7L 5H7 • T: 905-332-4090 • F: 905-332-7068

ES-A-M400/M400N/M400Z 1151

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