

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

LEAD FREE*

Maxim™ Series M400, M400N, M400Z

Reduced Pressure Zone Assemblies

Sizes: 2½" – 10"

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.

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

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 Fire & Waterworks..

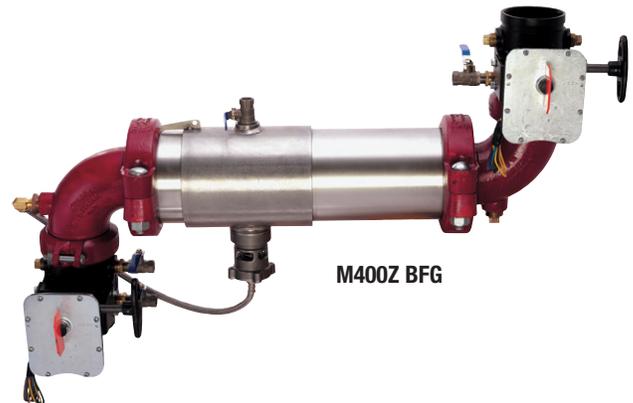
NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks 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 Fire & Waterworks products previously or subsequently sold.



M400 OSY



M400Z BFG

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.


AMES
 FIRE & WATERWORKS
 A WATTS Brand

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: Lead Free* Bronze Body
- 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 GxG - 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

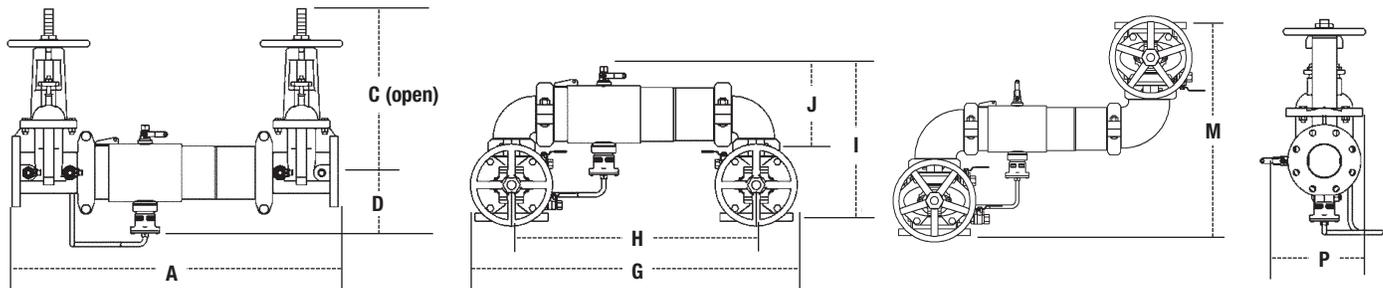
Temperature Range: 33°F – 110°F (0.5°C – 43°C)

Maximum Working Pressure: 175 psi (12.1 bar)

NOTICE

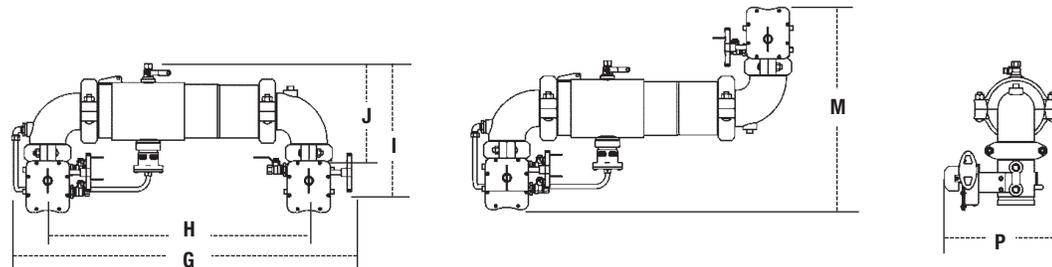
When installing a drain line on Series M400 backflow preventer use 400, 500 air gap. See ES-A-AG/EL/TC for additional information.

Dimensions – Weights



M400, M400N, M400Z

SIZE	DIMENSIONS										WEIGHT			
	A	C (OSY)	C (NRS)	D	H	I	P	M	G	J	M400OSY	M400NRS	M400NOSY	M400NNRS
in.	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	30¾ 781	16¾ 416	9¾ 238	6½ 165	21½ 546	15¾ 395	9¾ 238	21¼ 540	29½ 749	8½ 216	128 58	118 54	136 62	126 57
3	31¾ 806	18¾ 479	10¼ 260	6½ 170	22¼ 565	16¼ 413	10½ 271	23 584	30½ 775	9¾ 233	148 67	134 61	161 73	147 67
4	40½ 1029	22¾ 578	12¾ 310	8 203	32¼ 819	19¾ 500	11¾ 287	26¼ 667	39¾ 1010	11 280	222 101	222 101	245 111	245 111
6	47¾ 1213	30¾ 765	16 406	9½ 241	39¾ 1003	23¾ 580	15½ 394	34¼ 870	49 1244	14¾ 358	393 178	371 168	433 196	411 186
8	54¾ 1391	37¾ 959	9¾ 250	10½ 267	45¾ 1146	27¾ 690	17¾ 448	36¾ 937	59¾ 1502	16¼ 425	567 257	525 238	643 292	601 273
10	57¾ 1476	45¾ 1162	23¾ 605	11¾ 285	49½ 1257	32½ 825	20¾ 516	44½ 1124	66 1676	17¾ 440	784 784	724 356	954 433	894 406



M400NBF, M400ZBF

SIZE	DIMENSIONS						WEIGHT	
	H	I	P	M	G	J	lbs.	kgs.
in.	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm		
2½	23 584	15½ 398	11¾ 300	19¾ 502	32½ 825	9½ 242	67	30
3	24 610	16¾ 415	12¾ 308	21¼ 540	34 864	10½ 255	70	32
4	32¼ 819	18¾ 466	13¾ 354	23½ 597	42½ 1080	12 305	145	66
6	39½ 1003	21¼ 553	16¾ 418	27¼ 692	50¾ 1291	15¾ 386	254	115

Approvals

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC) (2 1/2" – 10" horizontal, 2 1/2" – 6" N and Z pattern)
- AWWA C511-97

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



Flow capacity chart identifies valve performance based upon rated water velocity up to 25fps

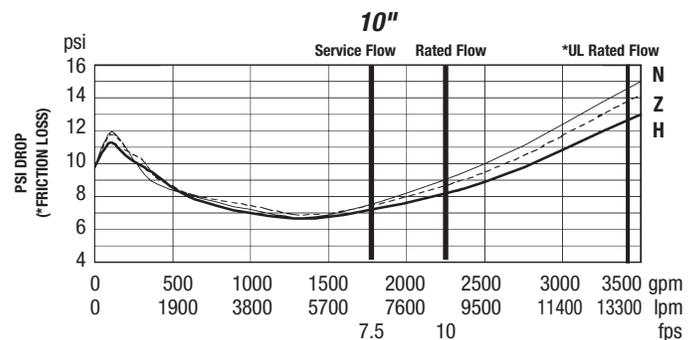
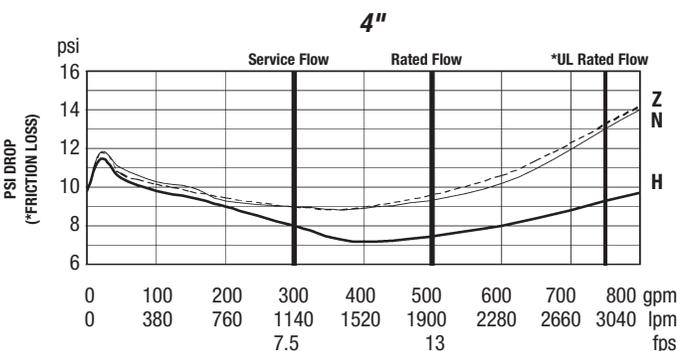
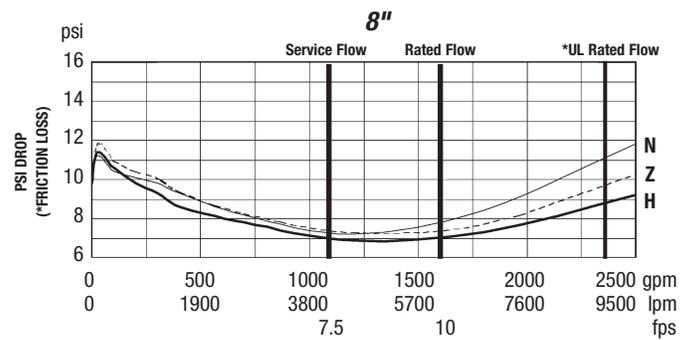
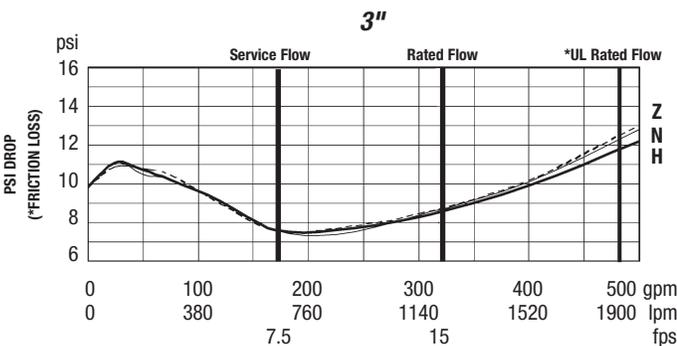
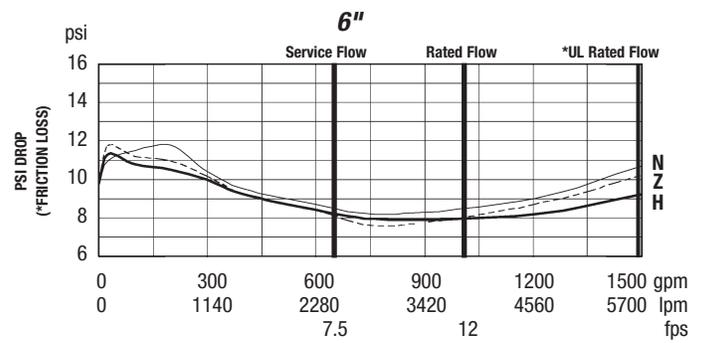
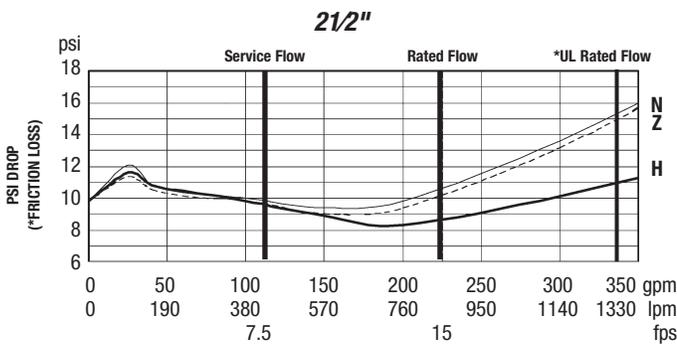
- Service Flow is typically determined by a rated velocity of 7.5fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] recommends that the maximum water velocity in services be not more than 10fps.

Capacity

UL/FM Certified Flow Characteristics

Flow characteristics collected using butterfly shutoff valves.

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



NOTICE

Inquire with governing authorities for local installation requirements

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



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USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com
USA: Control Valves Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmesFireWater.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmesFireWater.ca
Latin America: Tel: (52) 81-1001-8600 • AmesFireWater.com