

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..

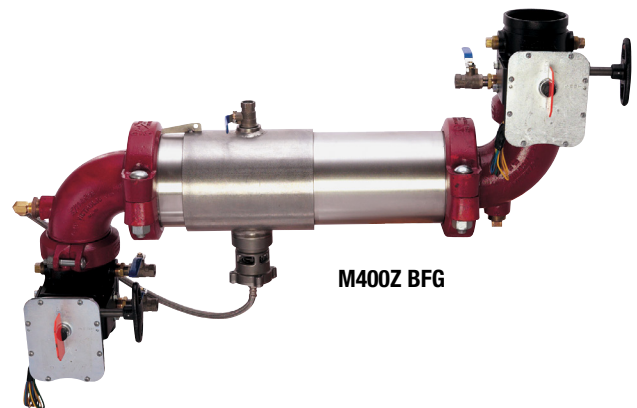
NOTICE

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

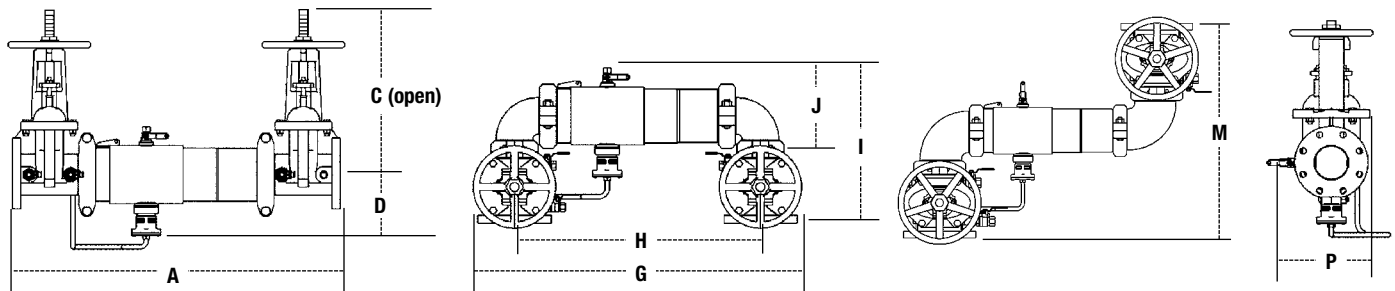
Temperature Range: 33°F – 110°F (0.5°C – 43°C)

Maximum Working Pressure: 175 psi (12.1 bar)

NOTICE

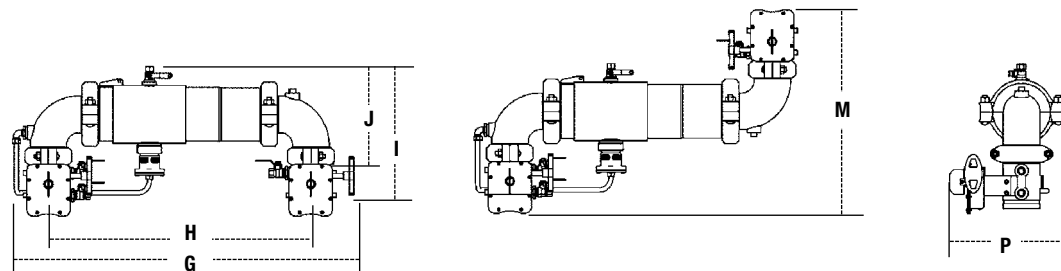
When installing a drain line on Series M400 backflow preventer use 400, 500 air gap. See ES-A-AG/EL/TC for additional information.

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	15⅞	395	9¾	238	21¼	540	29½	749	8⅞	223	128	58	118	54	136	62	126	57
3	31¾	806	18¾	479	10¼	260	6⅞	170	22¼	565	16¼	413	10⅞	271	23	584	30½	775	9⅞	233	148	67	134	61	161	73	147	67
4	40½	1029	22¾	578	12⅞	310	8	203	32¼	819	19⅞	500	11⅞	287	26¼	667	39¼	1010	11	280	222	101	222	101	245	111	245	111
6	47¾	1213	30¾	765	16	406	9½	241	39⅞	1003	23⅞	580	15½	394	34¼	870	49	1244	14⅞	358	393	178	371	168	433	196	411	186
8	54¾	1391	37¾	959	9⅞	506	10½	267	45⅞	1146	27⅞	690	17¾	448	36⅞	937	59⅞	1502	16¼	425	567	257	525	238	643	292	601	273
10	57¾	1476	45¾	1162	23⅞	605	11¾	285	49½	1257	32½	825	20⅞	516	44½	1124	66	1676	17⅞	440	784	356	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	lbs.	kgs.	
2½	23	584	15⅞	398	11⅞	300	19¾	502	32½	825	9½	242	67	30	
3	24	610	16⅞	415	12⅞	308	21¼	540	34	864	10⅞	255	70	32	
4	32¼	819	18⅞	466	13⅞	354	23½	597	42½	1080	12	305	145	66	
6	39½	1003	21¼	553	16⅞	418	27¼	692	50⅞	1291	15⅞	386	254	115	

Approvals

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCCHR-USC)
(2 1/2" – 10" horizontal, 2 1/2" – 6" N and Z pattern)
(Excluding 4" 'Z' configuration)
- AWWA C511-97

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

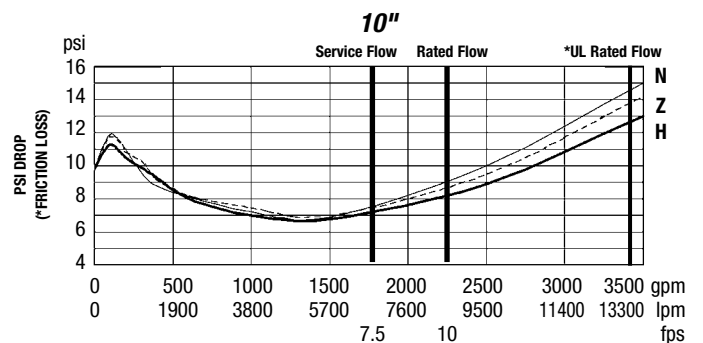
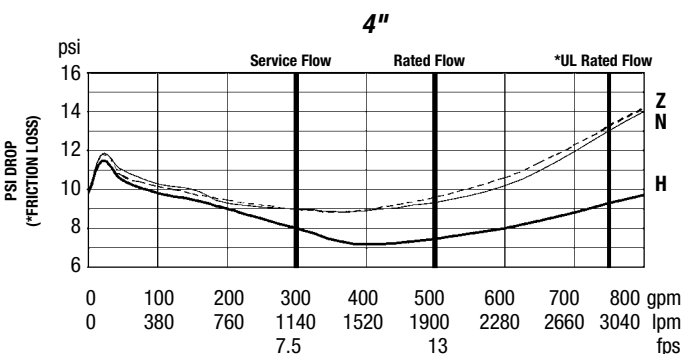
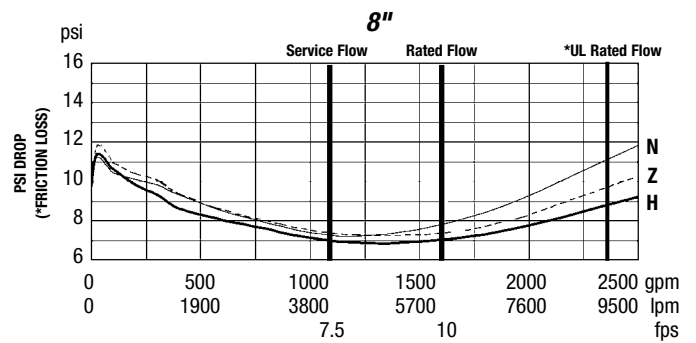
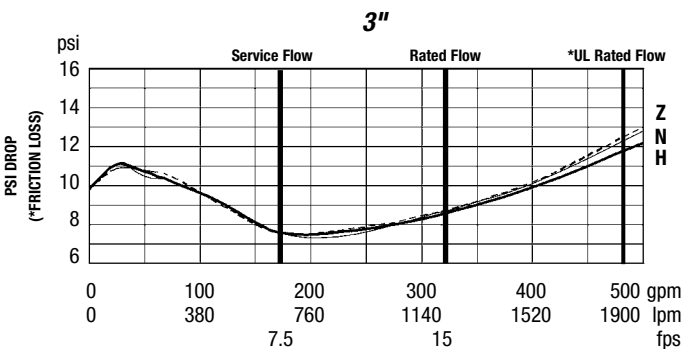
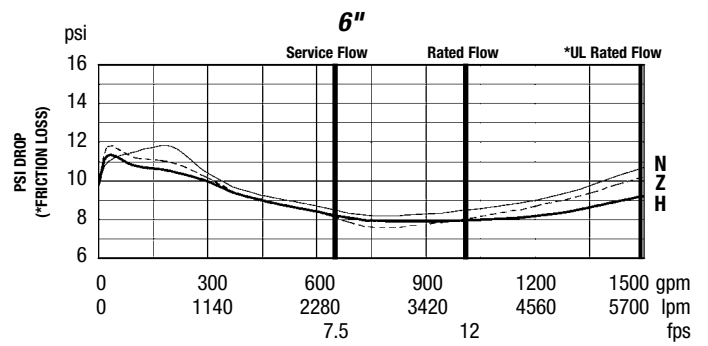
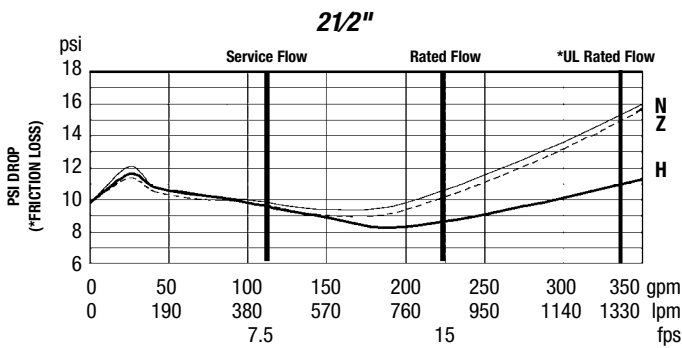


Capacity

UL/FM Certified Flow Characteristics

Flow characteristics collected using butterfly shutoff valves.

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



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.

NOTICE

Inquire with governing authorities for local installation requirements

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



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