



Maxim™ Series M500, M500N, M500Z

Reduced Pressure Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)



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 M500, M500N, M500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Maxim M500, M500N, M500Z are normally used in health hazard applications to protect against backsiphonage, backpressure and the fouling of either check valve. The Maxim M500, M500N, M500Z are used to monitor unauthorized use of water from the fire protection system.

Specifications

The Reduced Pressure Detector Assemblies shall consist of two independent Link Check modules, a differential pressure relief valve located between and below the two modules, two drip tight shutoff valves, and required test cocks. Link Check modules and 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. The bypass assembly consists of a meter registering either gallon or cubic measurements, a Reduced Pressure Zone Assembly and required test cocks. Assembly shall be Maxim M500, M500N, M500Z as manufactured by the Ames Company.

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 EPDMR
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Available Models

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*

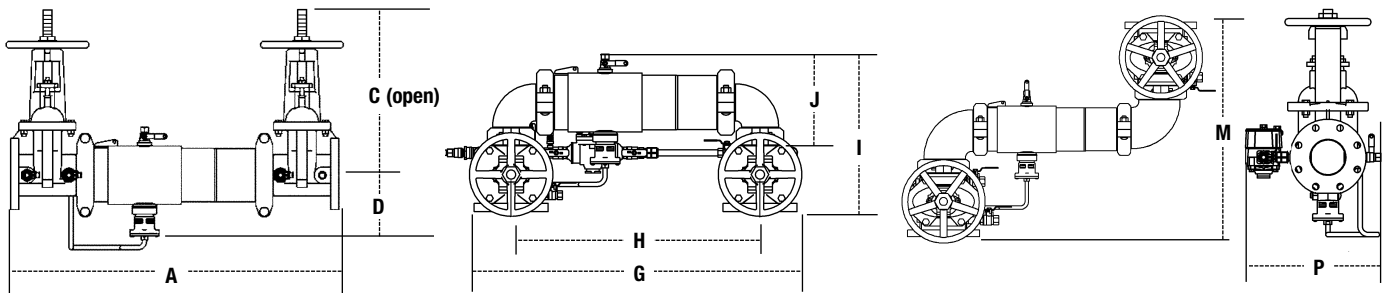
*Consult factory for dimensions

Pressure — Temperature

Temperature Range: 33°F – 110°F (5°C – 43°C)

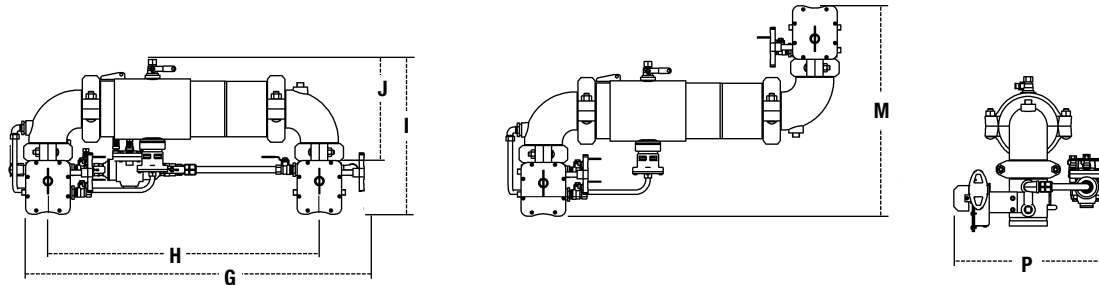
Maximum Working Pressure: 175psi (12.06 bar)

Dimensions — Weights



M500, M500N

SIZE (DN)		DIMENSIONS										WEIGHT											
		A		C (OSY)		D		H		I		P		M		G		J		M500		M500N	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	31	787	16 ³ / ₈	416	6½	165	22	559	15 ⁹ / ₁₆	395	13 ³ / ₈	340	18 ¹ / ₁₆	461	29½	749	8 ¹³ / ₁₆	223	142	64	150	68
3	80	31 ¹¹ / ₁₆	805	18 ⁷ / ₈	479	6 ¹¹ / ₁₆	170	22 ³ / ₄	578	16 ¹ / ₄	413	14 ¹¹ / ₁₆	372	19 ⁹ / ₁₆	497	30½	775	9 ⁹ / ₁₆	233	162	73	175	79
4	100	40½	1029	22 ³ / ₄	578	8	203	30 ³ / ₄	781	19 ¹¹ / ₁₆	500	15 ⁵ / ₁₆	389	21 ³ / ₄	552	39 ³ / ₄	1010	11	280	236	107	259	117
6	150	48 ³ / ₁₆	1224	30 ¹ / ₈	765	9½	241	38	965	23 ³ / ₁₆	605	19½	495	28 ⁵ / ₁₆	719	49	1245	14 ³ / ₁₆	360	407	185	447	203
8	200	55	1397	37 ³ / ₄	959	10½	267	45 ⁵ / ₈	1159	27 ³ / ₁₆	690	21 ⁵ / ₈	549	36 ³ / ₈	924	59 ¹ / ₈	1502	16 ³ / ₄	425	581	264	657	298
10	250	57½	1461	45 ³ / ₄	1162	11 ³ / ₁₆	284	50	1270	32½	825	24 ⁵ / ₁₆	617	44 ⁵ / ₈	1133	66	1676	17 ⁵ / ₁₆	440	798	362	968	439



M500NBF, M500ZBF

SIZE (DN)		DIMENSIONS								WEIGHT					
		H		I		P		M		G		J			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	65	23½	597	15 ¹¹ / ₁₆	398	11 ¹³ / ₁₆	300	22 ¹³ / ₁₆	580	31 ¹⁵ / ₁₆	811	9½	242	81	37
3	80	24½	622	16 ⁵ / ₁₆	415	12 ¹ / ₈	308	23 ⁵ / ₈	600	33 ⁵ / ₁₆	846	10 ¹ / ₁₆	255	84	38
4	100	32 ³ / ₄	832	18 ⁵ / ₁₆	466	13 ¹⁵ / ₁₆	454	24 ¹⁵ / ₁₆	633	42	1067	12	305	159	72.1
6	150	40	1016	21 ³ / ₄	553	16 ⁷ / ₁₆	418	28 ¹ / ₄	718	50 ¹³ / ₁₆	1291	15 ³ / ₁₆	386	268	121.5

Noryl® is a registered trademark of SABIC Innovative Plastics™.

Approvals



1047



28S6



B64.4



Approved

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

Capacity

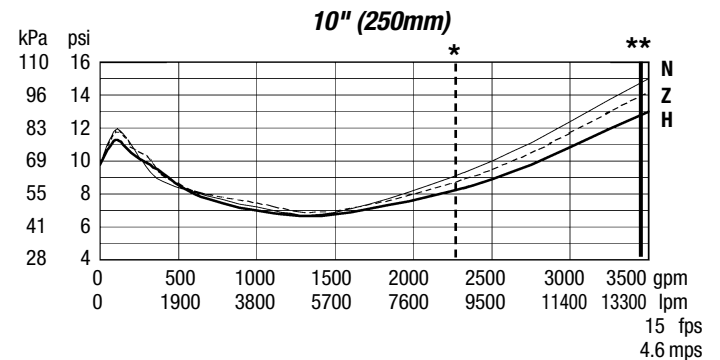
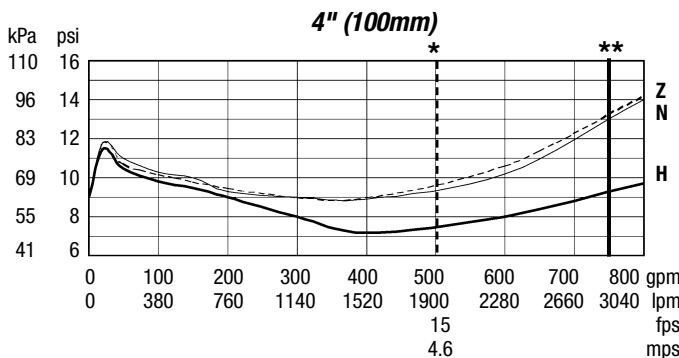
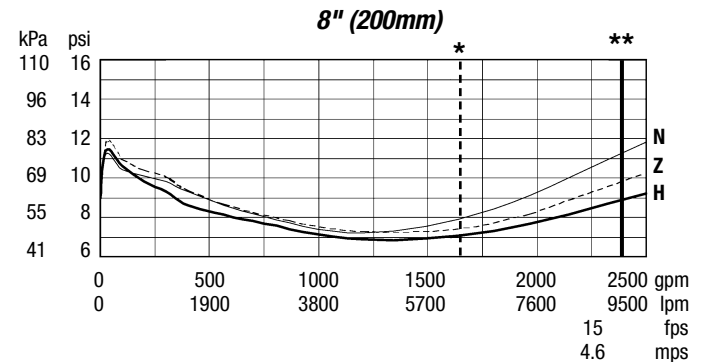
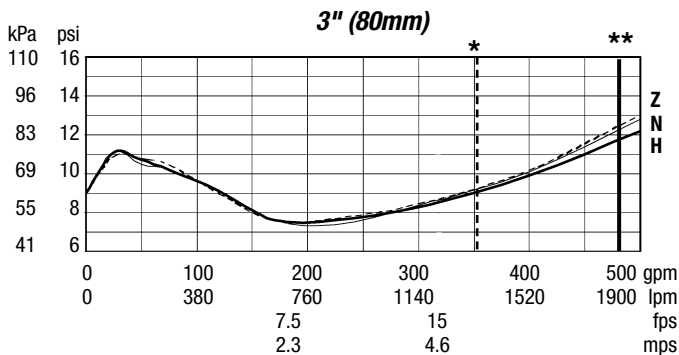
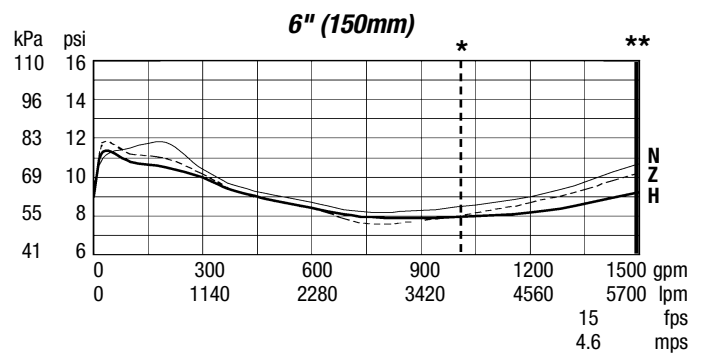
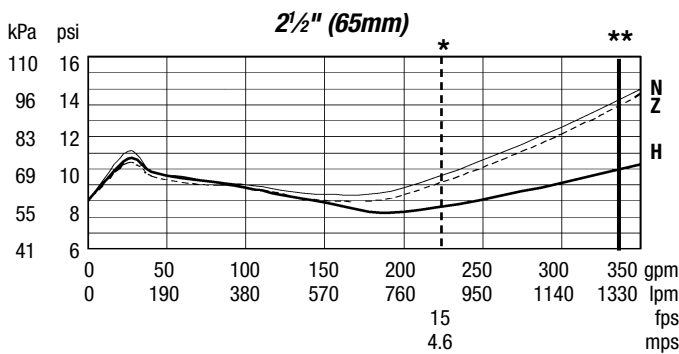
UL/FM Certified Flow Characteristics

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

USA: Backflow- Sacramento, CA • Tel: (916) 928-0123 • Fax: (916) 928-9333

Control Valves- Houston, TX • Tel: (713) 943-0688 • Fax: (713) 944-9445

Canada: Burlington, ON • Tel: (905) 332-4090 • Fax: (905) 332-7068

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