

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Maxim™ Series M500, M500N, M500Z

Reduced Pressure Detector Assemblies

Sizes: 2½" – 10"

The Maxim M500, M500N, M500Z Reduced Pressure Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for health-hazard non-potable service applications such as irrigation, fire line, or industrial processing. The Maxim M500, M500N, M500Z are used to monitor unauthorized use of water from the fire protection system.

Features

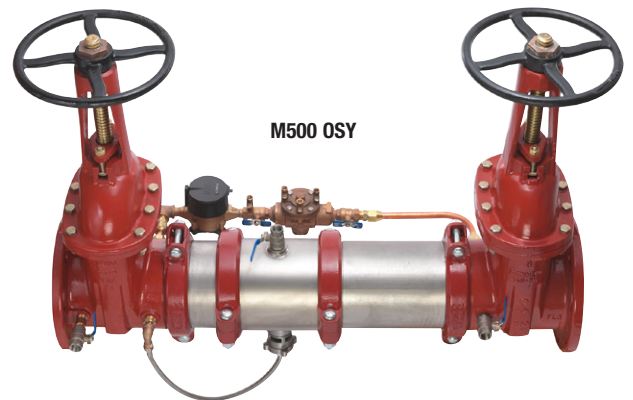
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs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

Specifications

The Reduced Pressure 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 Fire & Waterworks.

⚠ WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dish-washing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.



M500 OSY



M500N OSY

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.



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 EPDMr
 Test Cocks: Lead Free* Bronze Body
 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 GxF** - Grooved inlet gate connection and flanged outlet gate connection

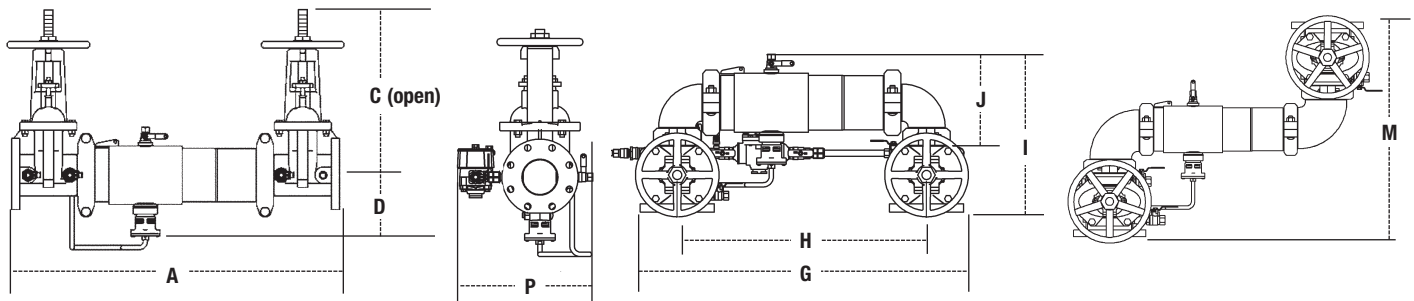
***OSY GxG** - Grooved inlet gate connection and grooved outlet gate connection

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

Pressure – Temperature

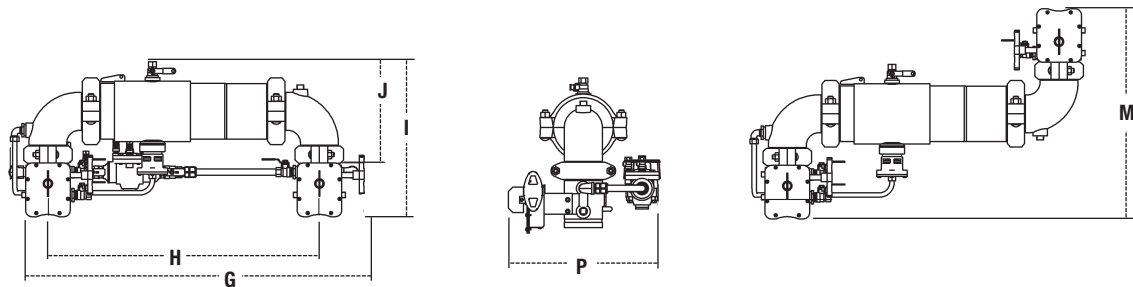
Temperature Range: 33°F – 110°F (5°C – 43°C)
 Maximum Working Pressure: 175psi (12.06 bar)

Dimensions – Weights



M500, M500N

SIZE		DIMENSIONS										WEIGHT									
in.	A in. mm	C (OSY) in. mm		D in. mm		H in. mm		I in. mm		P in. mm		M in. mm		G in. mm		J in. mm		M500 lbs. kgs.		M500N lbs. kgs.	
2½	30¾/4 781	16¾/8	416	6½/2	165	21½/2	546	15¾/16	395	13¾/8	340	21¼/4	540	29½/2	749	8½/16	223	142	64	150	68
3	31¾/4 806	18¾/8	479	6½/16	170	22¼/4	565	16¼/4	413	14½/16	372	23	584	30½/2	775	9¾/16	233	162	73	175	79
4	40½/2 1029	22¾/4	578	8	203	30¼/4	768	19½/16	500	15¾/16	389	26¼/4	667	39¾/4	1010	11	280	236	107	259	117
6	47¾/4 1213	30¾/8	765	9½/2	241	37½/2	953	23¾/16	605	19½/2	495	34¼/4	870	49	1245	14¾/16	360	407	185	447	203
8	54¾/4 1391	37¾/4	959	10½/2	267	45¾/8	1146	27¾/16	690	21¾/8	549	36¾/8	937	59¾/8	1502	16¾/4	425	581	264	657	298
10	57¾/4 1467	45¾/4	1162	11¾/16	284	49½/2	1257	32½/2	825	24¾/16	617	44½/2	1124	66	1676	17¾/16	440	798	362	968	439



M500N, M500ZBFG

SIZE	DIMENSIONS								WEIGHT					
in.	H in. mm		I in. mm		P in. mm		M in. mm		G in. mm		J in. mm		lbs.	kgs.
2½	23	584	15½/16	398	11½/16	300	19¾/4	502	31½/16	811	9½/2	242	81	37
3	24	610	16¾/16	415	12½/8	308	21¼/4	540	33¾/16	846	10½/16	255	84	38
4	30¼/4	768	18¾/16	466	13½/16	454	23½/2	597	42	1067	12	305	159	72.1
6	37½/2	953	21¾/4	553	16¾/16	418	27¼/4	692	50½/16	1291	15¾/16	386	268	121.5

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

Approvals



AWWA C511-97

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

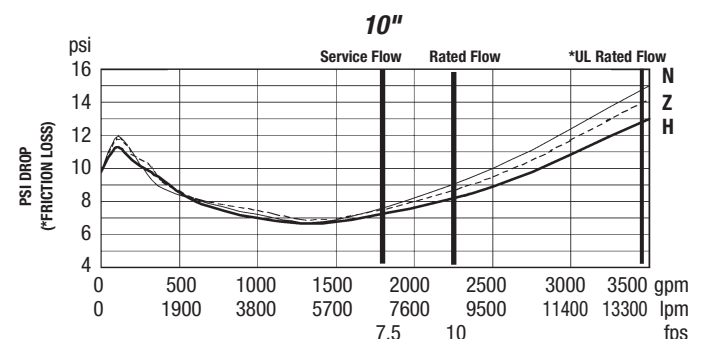
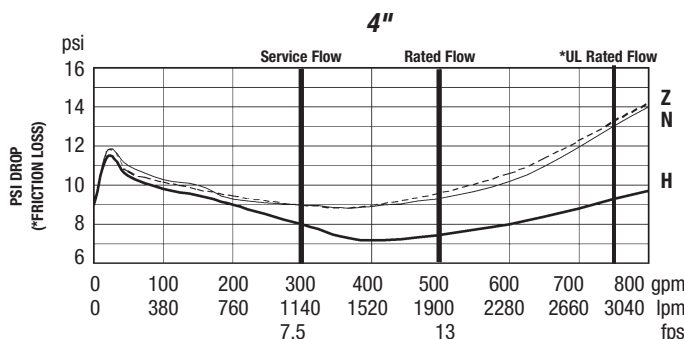
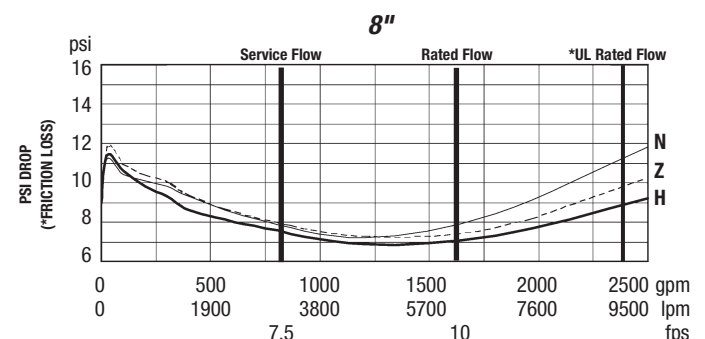
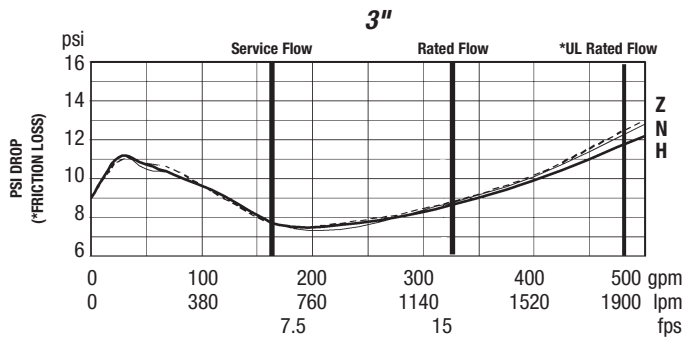
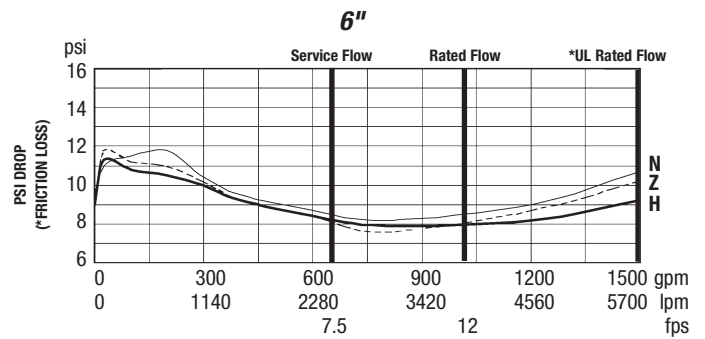
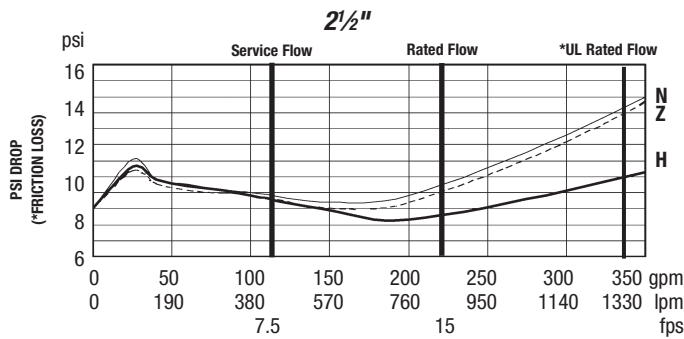
Capacity

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



A WATTS Brand

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) 55-4122-0138 • AmesFireWater.com