

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

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

LEAD FREE*

Maxim™ Series LFM500 (Maxim 500), LFM500N (Maxim 500N), LFM500Z (Maxim 500Z) Reduced Pressure Detector Assemblies

Sizes: 2½" – 10"

The Maxim LFM500, LFM500N, LFM500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Maxim LFM500, LFM500N, LFM500Z are normally used in health hazard applications to protect against backsiphonage, backpressure and the fouling of either check valve. The Maxim LFM500, LFM500N, LFM500Z are used to monitor unauthorized use of water from the fire protection system.

Features

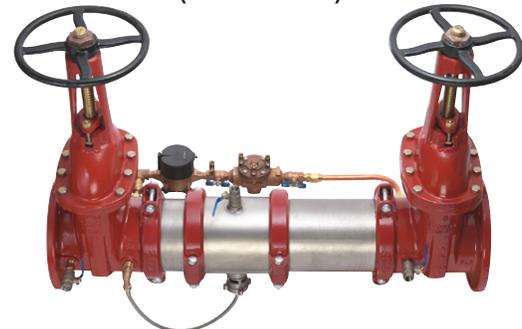
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
 - Available with Grooved Butterfly Valve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

Specifications

The Lead Free* 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 feet measurements, a Reduced Pressure Zone Assembly and required test cocks. Assembly shall be Maxim LFM500, LFM500N, LFM500Z as manufactured by the Ames Fire & Waterworks.



LFM500N OSY
(Maxim 500V GV)



LFM500 OSY
(Maxim 500)

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.

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

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* Cast Copper Silicon Alloy
 Pins & Fasteners: Series Stainless Steel
 Springs: Stainless Steel

Available Models

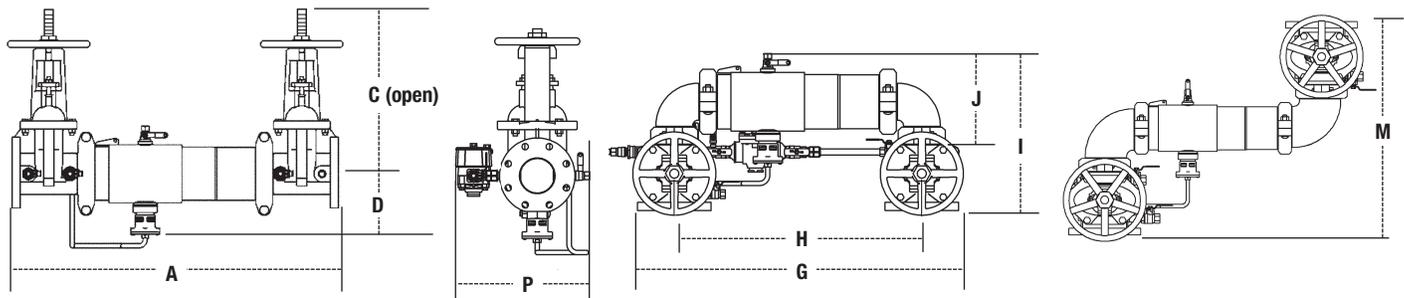
- OSY — UL/FM outside stem and yoke resilient seated gate valves
- BFG — UL/FM grooved gear operated butterfly valves w/tamper switch
- †OSY FxG — Flanged inlet gate connection and grooved outlet gate connection
- †OSY GxG — Grooved inlet gate connection and flanged outlet gate connection
- †OSY GxG — 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

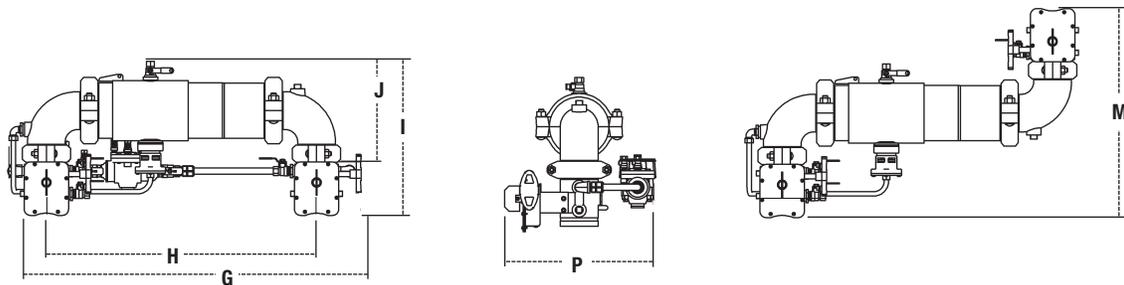
Temperature Range: 33°F – 110°F (5°C – 43°C)
 Maximum Working Pressure: 175 psi (12.06 bar)

Dimensions – Weights



LFM500, LFM500N, LFM500Z

SIZE		DIMENSIONS										WEIGHT											
in.	mm	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	76	30¾	781	16¾	416	6½	165	21½	546	15⅞	395	13¾	340	21¼	540	29½	749	8⅜	223	142	64	150	68
3	76	31¾	806	18⅞	479	6⅞	170	22¼	565	16¼	413	14⅞	372	23	584	30½	775	9⅞	233	162	73	175	79
4	102	40½	1029	22¼	578	8	203	30¼	768	19⅞	500	15⅞	389	26¼	667	39¾	1010	11	280	236	107	259	117
6	152	47¾	1213	30⅞	765	9½	241	37½	953	23⅞	605	19½	495	34¼	870	49	1245	14⅞	360	407	185	447	203
8	203	54¾	1391	37¾	959	10½	267	45⅞	1146	27⅞	690	21⅞	549	36⅞	937	59⅞	1502	16¾	425	581	264	657	298
10	254	57¾	1467	45¾	1162	11⅞	284	49½	1257	32½	825	24⅞	617	44½	1124	66	1676	17⅞	440	798	362	968	439



LFM500NBFG, LFM500ZBFG

SIZE		DIMENSIONS										WEIGHT			
in.	mm	H		I		P		M		G		PJ			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	76	23	584	15⅞	398	11⅞	300	19¾	502	31⅞	811	9½	242	81	37
3	76	24	610	16⅞	415	12⅞	308	21¼	540	33⅞	846	10⅞	255	84	38
4	102	30¼	768	18⅞	466	13⅞	454	23½	597	42	1067	12	305	159	72.1
6	152	37½	953	21¾	553	16⅞	418	27¼	692	50⅞	1291	15⅞	386	268	121.5

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

Approvals

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)
- AWWA C511-97



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

Capacity

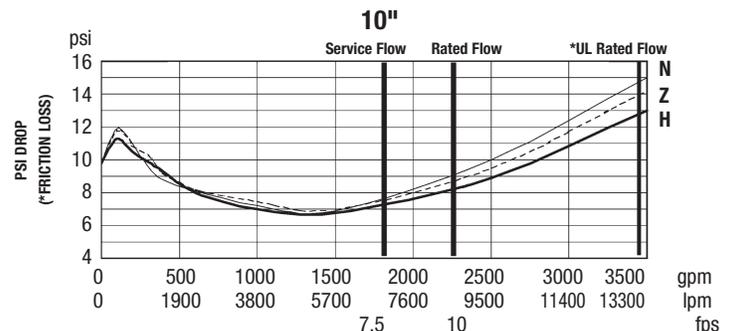
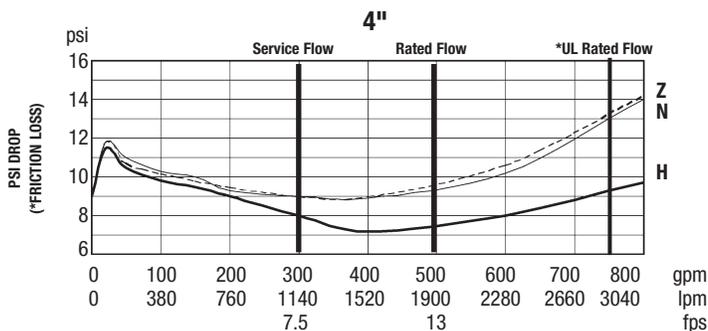
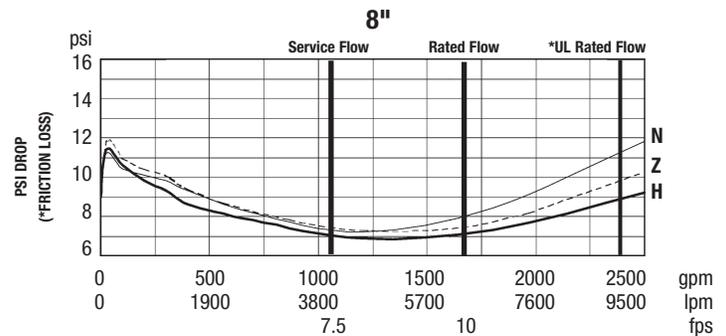
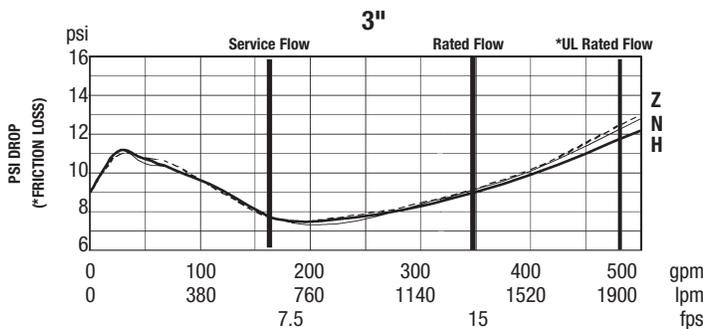
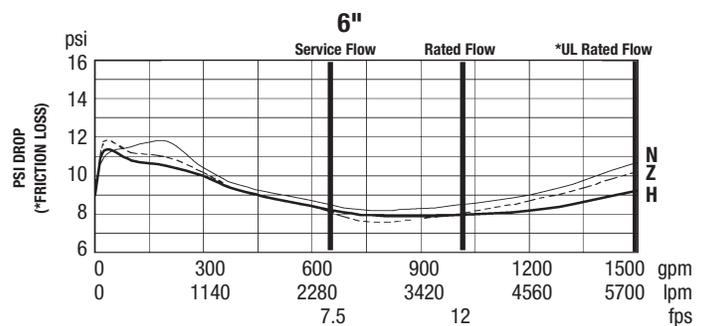
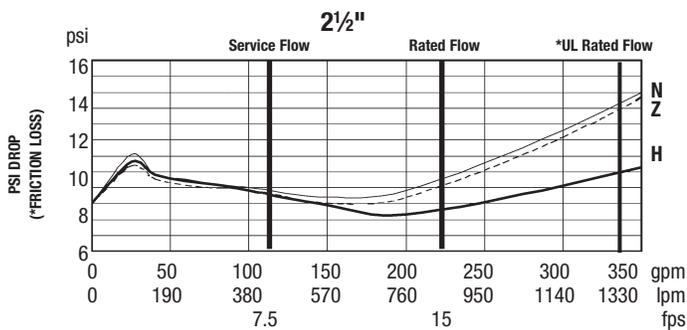
UL/FM Certified Flow Characteristics

Flow characteristics collected using butterfly shutoff valves.

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.

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



NOTICE

Inquire with governing authorities for local installation requirements



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