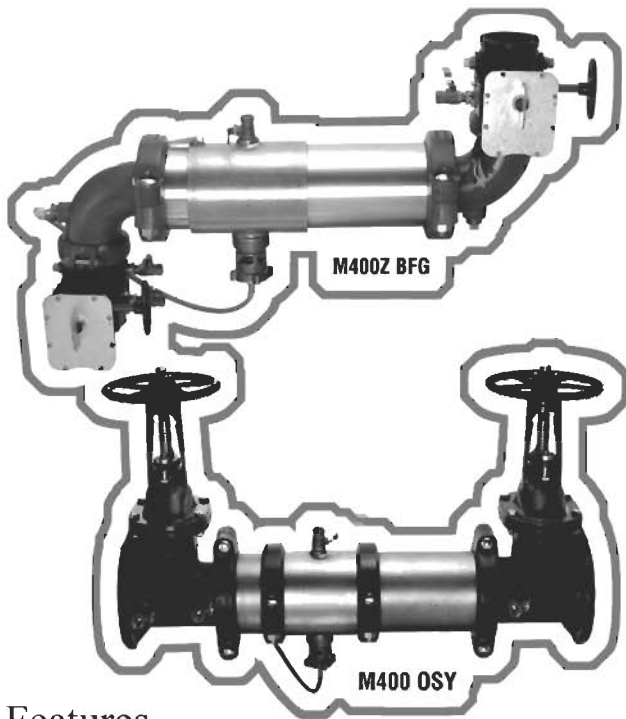




Model M400 / M400N / M400Z Reduced Pressure Zone Assemblies 2-1/2" to 10"



Models

- OSY - UL/FM outside stem and yoke resilient seated gate valves
- BFG - UL/FM grooved gear operated butterfly valves w/tamper switch
- NRS - non-rising stem resilient seated gate valves

Configurations

- Horizontal
- Vertical up
- "N" pattern horizontal

Specifications

Maxim M400/M400N/M400Z Reduced Pressure Zone Assemblies are used to prevent contamination from entering potable water supply systems. Maxim M400/M400N/M400Z may be installed under continuous pressure service and may be subjected to backpressure. For use in health hazard applications. The RP shall consist of two independent Link 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. The housing shall be constructed with groove end connections.

Installation

The system should be flushed before the valve is installed. The Series M200/M200N must be installed in accordance with the direction of the flow arrow on the assembly and according to the local water authority. The assembly should be installed with adequate clearance to allow inspection, testing and servicing. 12" should be the minimum clearance above grade.

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
- Replaceable Check Disc Rubber

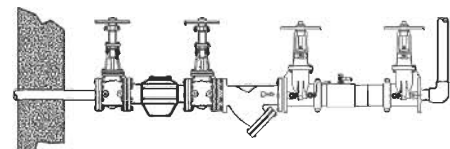
Characteristics

- Temperature Range: 33°F – 140°F
- Maximum Working Pressure: 175psi
- Housing & Sleeve: 304 (Sch 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna 'N'
- Tri-Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Approvals

ASSE 1013, UL Listed 28S6, CSA B64.4, FM Approved, USC Approved.

MAXIM SERIES

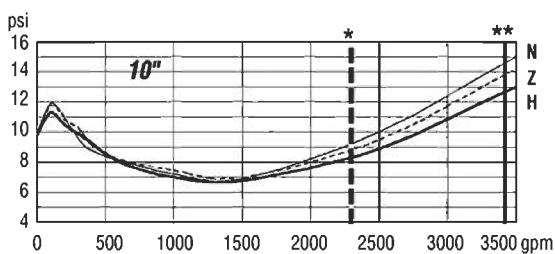
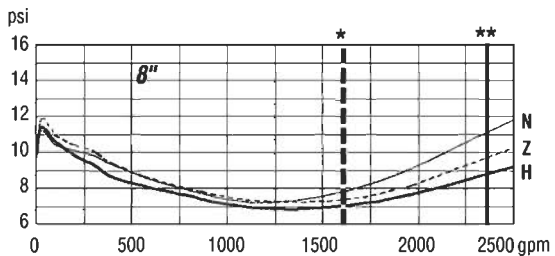
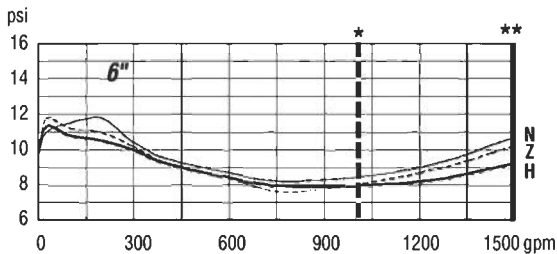
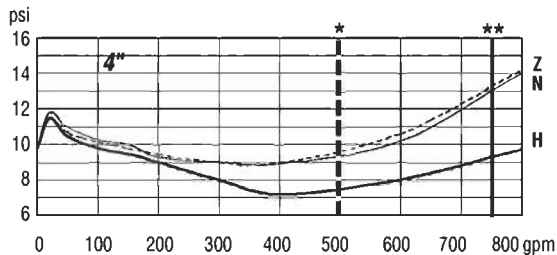
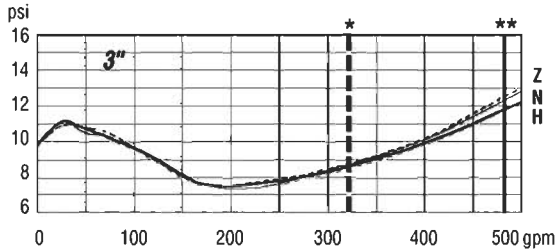
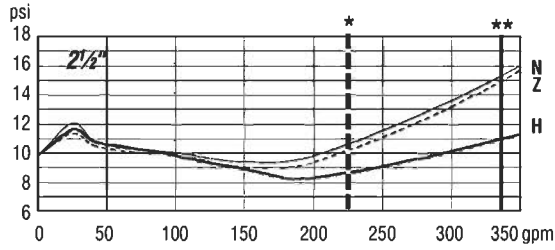


Horizontal Installation

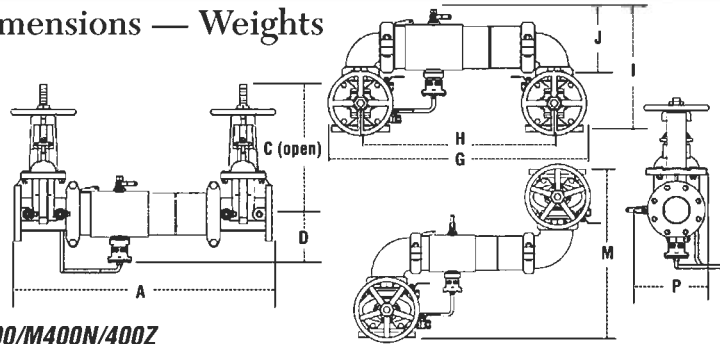
Flow Curves - Maxim 400 & 500 Series

* = Rated flow ** = UL Tested

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

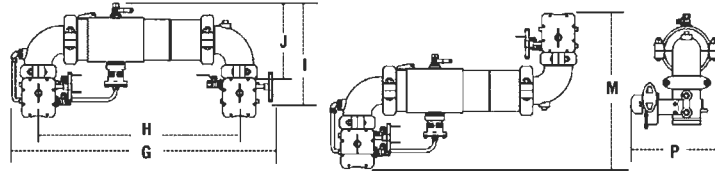


Dimensions — Weights



M400/M400N/400Z

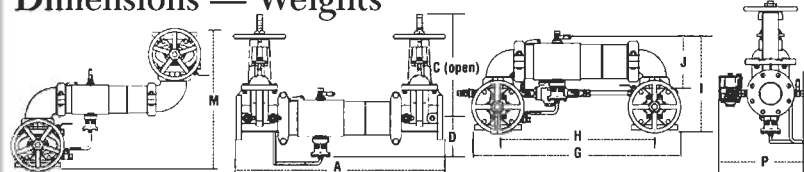
SIZE (DN)	DIMENSIONS										WEIGHT							
	A	C (OSY)	C (NRS)	D	H	I	P	M	G	J	M400OSY	M400NRS	M400OSY	M400NRS				
2 1/2	31	16 3/8	9 3/8	6 1/2	22	15 5/16	9 3/8	18 1/16	29 1/2	8 13/16	128	58	118	54	136	62	126	57
3	31 11/16	18 3/8	10 1/4	6 1/8	22 3/4	16 1/4	10 11/16	19 9/16	30 1/2	9 1/16	148	67	134	61	161	73	147	67
4	40 1/2	22 3/4	12 3/8	8	30 3/4	19 11/16	11 3/8	21 1/2	39 3/4	11	222	101	222	101	245	111	245	111
6	48 3/16	30 1/8	16	9 1/2	38	23 9/16	15 1/2	28 3/16	49	14 1/8	393	178	371	168	433	196	411	186
8	55	37 3/4	9 1/2	10 1/2	45 3/8	27 3/16	17 3/8	36 3/8	59 1/8	16 3/4	567	257	525	238	643	292	601	273
10	57 1/2	45 1/4	23 3/8	11 1/4	50	32 1/2	20 3/8	44 3/8	66	17 3/8	784	784	724	356	954	433	894	406



M400NBFG/M400ZBFG

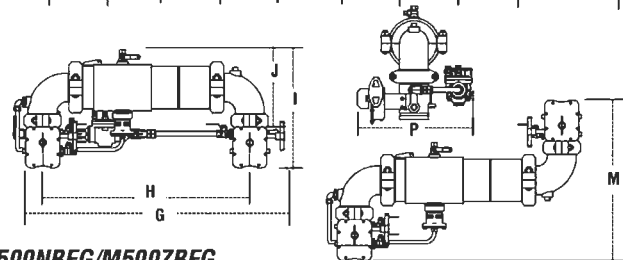
SIZE (DN)	DIMENSIONS						WEIGHT
	H	I	P	M	G	J	
2 1/2	23 1/2	15 11/16	11 13/16	22 13/16	32 1/2	9 1/2	67
3	24 1/2	16 5/16	12 1/8	23 3/8	34	10 1/16	70
4	32 3/4	18 5/16	13 15/16	24 15/16	42 1/2	12	145
6	40	21 3/4	16 1/16	28 1/4	50 13/16	15 3/16	254

Dimensions — Weights



M500/M500N

SIZE (DN)	DIMENSIONS										WEIGHT	
	A	C (OSY)	D	H	I	P	M	G	J	M500	M500N	
2 1/2	31	16 3/8	6 1/2	22	15 5/16	13 3/8	18 1/16	29 1/2	8 13/16	142	150	
3	31 11/16	18 3/8	6 11/16	22 3/4	16 1/4	14 11/16	19 9/16	30 1/2	9 1/16	162	175	
4	40 1/2	22 3/4	8	30 3/4	19 11/16	15 5/16	21 3/4	39 3/4	11	236	259	
6	48 3/16	30 1/8	9 1/2	38	23 9/16	19 1/2	28 3/16	49	14 3/16	407	447	
8	55	37 3/4	10 1/2	45 3/8	27 3/16	21 5/8	36 3/8	59 1/8	16 3/4	581	657	
10	57 1/2	45 3/4	11 3/16	50	32 1/2	24 5/16	44 5/8	66	17 5/8	798	968	



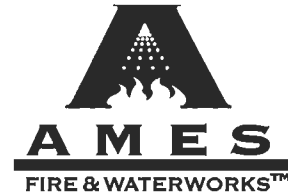
M500NBFG/M500ZBFG

SIZE (DN)	DIMENSIONS						WEIGHT
	H	I	P	M	G	J	
2 1/2	23 1/2	15 11/16	11 13/16	22 13/16	31 15/16	9 1/2	81
3	24 1/2	16 5/16	12 1/8	23 5/8	33 5/16	10 1/16	84
4	32 3/4	18 5/16	13 15/16	24 15/16	42	12	159
6	40	21 3/4	16 7/16	28 1/4	50 13/16	15 3/16	300

American Backflow Specialties

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(800) 66-BKFLO (619) 527-2525 Fax: (619) 527-2527



Model M500 / M500N / M500Z Reduced Pressure Detector Assemblies 2-1/2" to 10"

Models

- OSY - UL/FM outside stem and yoke resilient seated gate valves
- BFG - UL/FM grooved gear operated butterfly valves w/tamper switch



Configurations

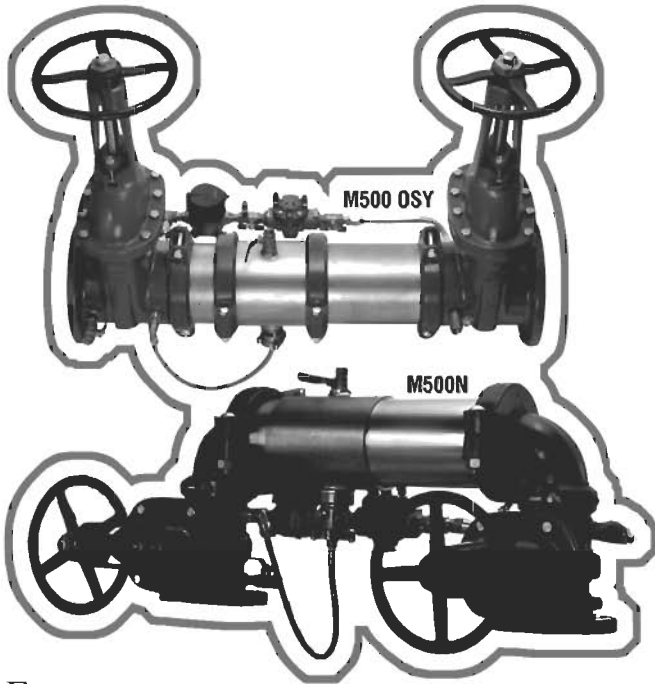
- Horizontal
- Vertical up
- "N" pattern horizontal

Specifications

Maxim M500/M500N/M500Z Reduced Pressure Detector Assemblies are used to prevent contamination from entering potable water supply systems. Maxim M500/M500N/M500Z may be installed under continuous pressure service and may be subjected to backpressure. For use in health hazard applications to monitor unauthorized water use. The RP shall consist of two independent Link 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 with groove end connections. The bypass assembly consists of a meter registering either gallon or cubic measurements, a reduced pressure zone assembly and required test cocks.

Installation

The system should be flushed before the valve is installed. The Series M500/M500N must be installed in accordance with the direction of the flow arrow on the assembly and according to the local water authority. The assembly should be installed with adequate clearance to allow inspection, testing and servicing. 12" should be the minimum clearance above grade.



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
- Replaceable Check Disc Rubber

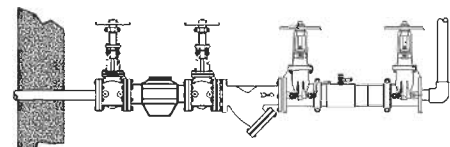
Characteristics

- Temperature Range: 33°F – 140°F
- Maximum Working Pressure: 175psi
- Housing & Sleeve: 304 (Sch 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna 'N'
- Tri-Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Approvals

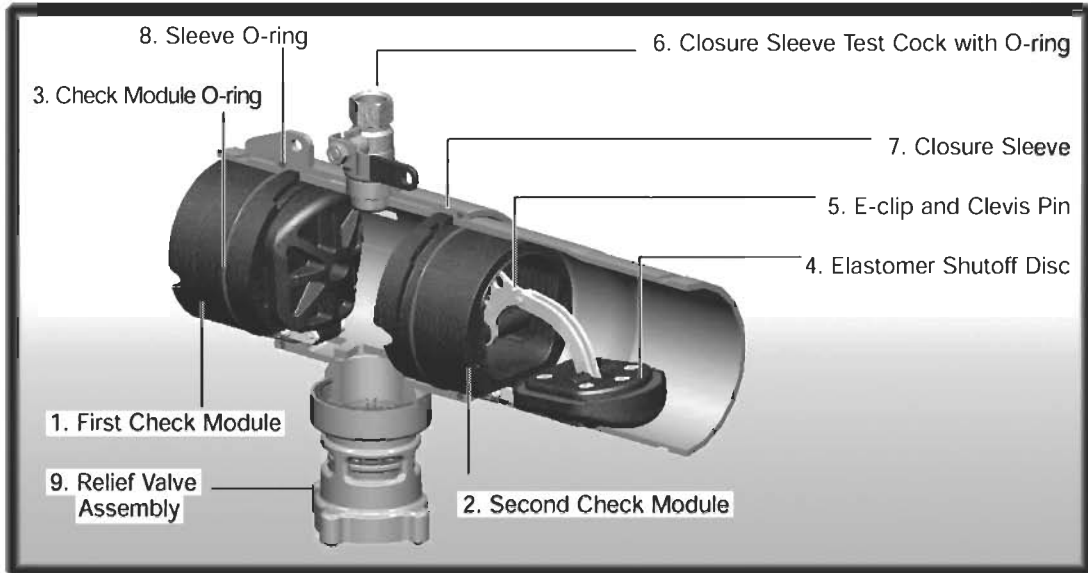
ASSE 1047, UL Listed 28S6, CSA B64.4, FM Approved, USC Approved.

MAXIM SERIES



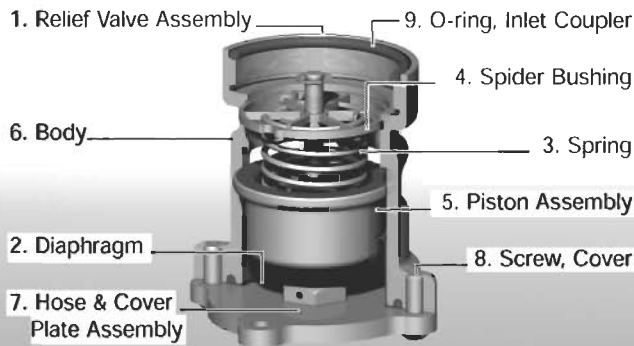
Horizontal Installation

Replacement Parts - Maxim 400 & 500 Models



ITEM NO.	PART DESCRIPTION	2 1/2"	3"	4"	6"	8"	10"
1	FIRST CHECK MODULE	7018112	7018112	7018115	7018118	7018401	7018401
2	SECOND CHECK MODULE (a)	7018120	7018120	7018121	7018398	7018402	7018402
3	CHECK MODULE O-RING	7017861	7017861	7017910	7013301	7018352	7018352
4	ELASTOMER SHUTOFF DISC	7017855	7017855	7017903	7017928	7018348	7018348
5	GROOVED CLEVIS PIN KIT (CONTAINS: "E" CLIP & CLEVIS PIN) 5 PER PACK	7018126	7018126	7018127	7018127	7018412	7018412
6	CLOSURE SLEEVE TEST-COCK WITH O-RING	7018152	7018152	7018152	7018152	7018153	7018153
7	CLOSURE SLEEVE	7017881	7017881	7017883	7017885	7017887	7017887
8	SLEEVE O-RING or GASKET (2REQ'D)	7017896	7017896	7017921	7017944	7018339	7018339
9	RELIEF VALVE ASSEMBLY	7018107	7018107	7018107	7018107	7018107	7018107
NS	CHECK REPAIR KIT (CONTAINS: O-RING, SHUTOFF DISC & E CLIP)	7018123	7018123	7018124	7018125	7018414	7018414
NS	TEST COCK, .50 FPT X FPT WITH NIPPLE	7018394	7018394	7018394	N/A	N/A	N/A
NS	TEST COCK, .75 FPT X FPT WITH NIPPLE	N/A	N/A	N/A	7018395	7018395	7018395
NS	"E" CLIP	7017870	7017870	7017821	7017821	7017974	7017974
NS	GROOVE COUPLER	7017994	7017995	7017996	7017997	7018070	7018070
NS	SLEEVE COUPLER ASSEMBLY	N/A	N/A	N/A	7018122	7018413	7018413
NS	AIR GAP DRAIN	7018367	7018367	7018367	7018367	7018367	7018367
NS	SPLASH GUARD	7018368	7018368	7018368	7018368	7018368	7018368
NS	O-RING, #3 TEST COCK	7017897	7017897	7017897	7017897	7017897	7017897
NS	STAINLESS STEEL CHECK RETAINER	7018408	7018408	7018409	7018410	7018411	7018411

Relief Valve Replacement Parts



ITEM NO.	PART DESCRIPTION	ORDERING CODE
1	RELIEF VALVE ASSEMBLY	7018107
2	DIAPHRAGM	7017809
3	SPRING	7017810
4	SPIDER BUSHING	7017811
5	PISTON ASSEMBLY	7018227
6	BODY	7017817
7	HOSE & COVER PLATE ASSEMBLY	7018228
8	SCREW, COVER	7017822
9	O-RING, INLET COUPLER	7017826
NS	SENSING ELBOW	03263004
NS	HOSE	0298120

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