

Backflow Prevention Products and Parts

For Fire Protection and Municipal Waterworks



EXCELLENCE MATTERS – SPECIFY IT

Since 1910 Ames Fire & Waterworks has been a leader in the manufacture of valves and fittings for all types of pipeline systems. Ames products serve the fire protection, irrigation and waterworks markets and have a reputation of excellence in the industry. Ames production process promotes consistent quality control and prompt customer service. This catalog features Ames's standard products; Ames also offers a wide variety of custom products upon request. If excellence matters to you, then specify Ames.

LEAD FREE* TRANSITION

Backflow prevention has critical implications in potable water supply systems. With the changeover to Lead Free in the United States effective January 4, 2014, Lead Free backflow prevention devices are required in many applications and/or settings. The Ames backflow preventer product line includes many Lead Free versions of our trusted and reliable backflow products.

Standard Material Products (not Lead Free) CONTAIN MORE THAN 0.25% LEAD.

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States.

Before installing standard material product, consult your local water authority, building and plumbing codes.

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

Table of Contents

Section 1 – Double Check Valve Assemblies

M200, M200N	2
C200, C200N	4
2000SS	6
LF2000B, 2000B	8

Section 2 – Double Check Detector Assemblies

LFM300, LFM300N, M300, M300N	10
LFC300, LFC300N, C300, C300N	12
3000SS	14
3000BMI	16

Section 3 – Reduced Pressure Zone Assemblies

M400, M400N, M400Z	18
C400, C400N, C400Z	20
4000SS	22
4000BLT, 6000HMB	23
LF4000B, 4000B	24

Section 4 – Reduced Pressure Detector Assemblies

LFM500, LFM500N, LFM500Z, M500, M500N, M500Z	26
LFC500, LFC500N, LFC500Z, C500, C500N, C500Z	28
5000SS	30

Section 5 – Detector Check Valves

1000SS	31
1000DCV, 1005DCV, 1010DCV	32

Section 6 – Miscellaneous Products

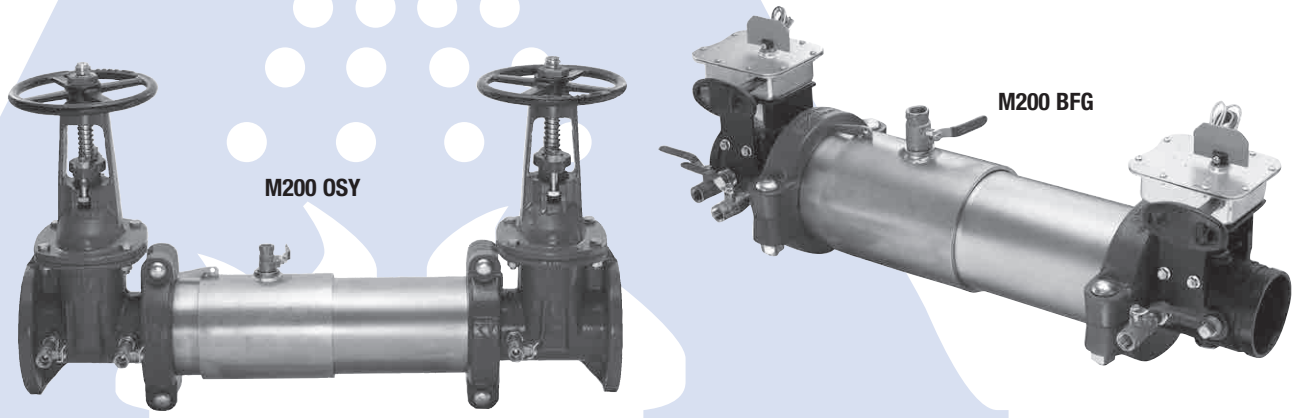
In-Building Riser	33
UL/FM Fire Service Strainers Series 7001, 7002	34
Stainless Steel Strainers Series 8000F, 8000G	34
Air Gaps, Elbows	35
Test Cocks, Caps & Tethers	36
Test Kit Model ATG-1	36
Spools, Flanges	37
Valve Setter AVS	38
ASCV	39

Section 7 – Flow Charts

Maxim™ Series M200, M200N

Double Check Valve Assemblies

Sizes: 2½" – 10" (65 – 250mm)



LEAD FREE*

The Maxim Series M200, M200N Double Check Valve Assemblies are used to prevent backflow of pollutants, that are objectionable but not toxic, from entering the potable water supply system. The Maxim M200, M200N may be installed under continuous pressure service and may be subjected to backpressure. The Maxim M200, M200N consists of two independently operating check valves, two shutoff valves, and four test cocks. For use in non-health hazard applications. The Maxim M200, M200N features Lead Free* construction to comply with Lead Free* installation requirements.

Features

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

Materials

- Housing & Sleeve: 304 (Schedule 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

Available Models

Suffix:

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: 175psi (12.1 bar)

Approvals



1015



B64.5



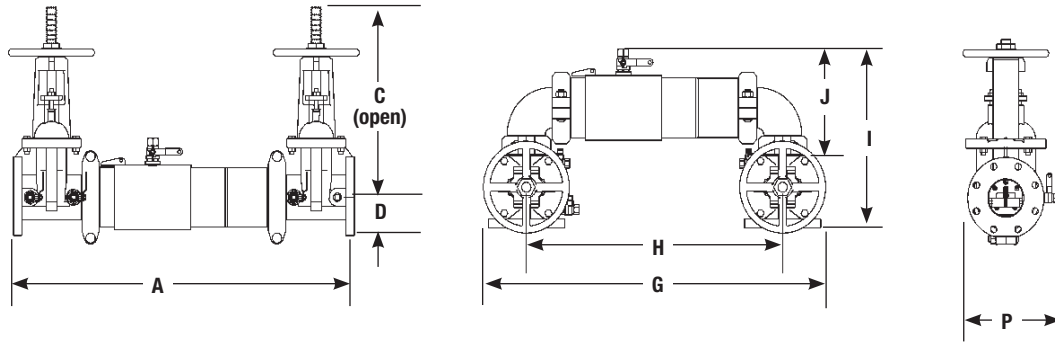
(**BFG & OSY Only)



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

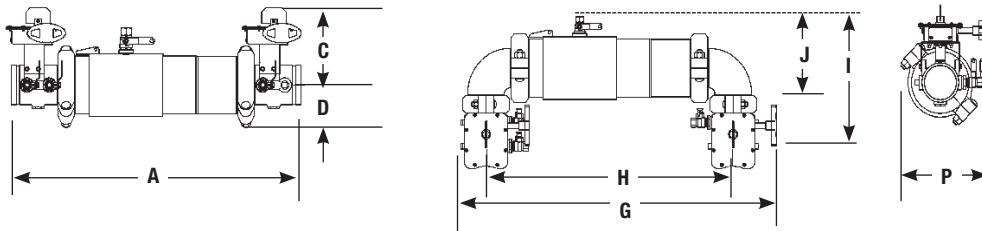
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Dimensions — Weights



M200, M200N

SIZE (DN)		DIMENSIONS (APPROX.)												WEIGHT													
in.	mm	A		C		D		G		H		I		J		P		M200		M200N							
		in.	mm	OSY	NRS	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.	lbs.	kgs.				
2 1/2	65	30 3/4	781	16 3/8	416	9 3/8	238	3 1/2	89	29 1/16	738	21 1/2	546	15 13/16	402	8 13/16	223	9 3/16	234	125	57	115	52	133	60	122	55
3	80	31 3/4	806	18 7/8	479	10 1/4	260	3 11/16	94	30 1/2	775	22 1/4	565	17 1/8	435	9 3/16	233	10 1/2	267	145	66	131	59	158	72	144	65
4	100	40 1/2	1029	22 3/4	578	12 3/16	310	5	127	39 3/4	1010	30 1/4	768	20 3/8	518	11 11/16	297	11 3/16	284	225	102	219	99	248	113	242	110
6	150	47 3/4	1213	30 1/8	765	16	406	6 1/2	165	40	1016	37 1/2	953	24 3/4	629	14 3/16	360	15 1/2	394	390	177	368	167	430	195	408	185
8	200	54 3/4	1391	37 3/4	959	19 15/16	506	7 1/2	191	59 1/8	1502	45 1/8	1146	28 3/8	721	16 3/4	425	17 1/2	445	564	256	522	237	640	290	598	271
10	250	57 3/4	1467	45 3/4	1162	23 13/16	605	8 9/16	208	66	1676	49 1/2	1257	32 1/2	826	17 5/16	440	20	508	781	354	721	327	951	431	890	404



M200BFG, M200NBFG

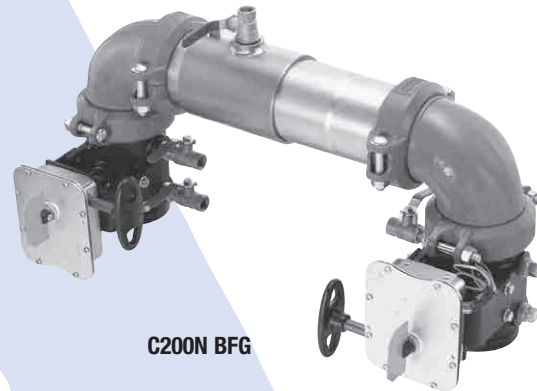
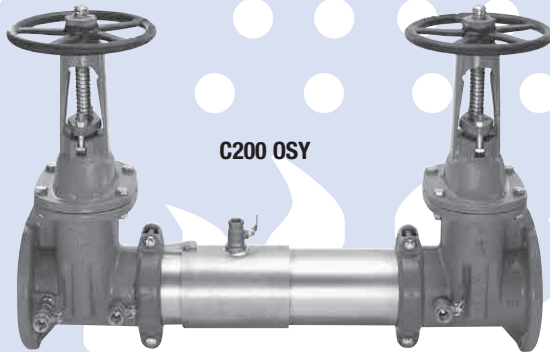
SIZE (DN)		DIMENSIONS (APPROX.)												WEIGHT							
in.	mm	A		C		D		G		H		I		J		P		M200BFG		M200NBFG	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2 1/2	65	27 3/4	705	8	203	3 1/2	89	29 7/8	759	21 1/2	546	14 15/16	379	8 3/16	223	9	229	56	25	64	29
3	80	28 1/4	718	8 5/16	211	3 11/16	94	30 3/4	781	22 1/4	565	15 7/16	392	9 3/16	233	9 1/2	241	54	24	67	30
4	100	35 3/4	908	8 11/16	221	4 13/16	122	39	991	30 1/4	768	18	457	11 11/16	297	11	279	119	54	142	64
6	150	40 3/4	1035	10	254	6	152	47 7/16	1205	37 1/2	953	20 11/16	525	14 3/16	360	15 1/2	394	211	96	251	114
8	200	47 3/4	1213	12 3/16	310	6 13/16	173	56	1422	45 5/8	1146	24 1/8	613	16 3/4	425	17 1/2	445	345	156	421	191

IMPORTANT: Inquire with governing authorities for local installation requirements

Colt™ Series C200, C200N

Double Check Valve Assemblies

Sizes: 2½" – 10" (65 – 250mm)



1 Double Check Valve Assemblies

LEAD FREE* The Colt Series C200, C200N Double Check Valve Assemblies are used to prevent backflow of pollutants, that are objectionable but not toxic, from entering the potable water supply system. The Colt C200, C200N may be installed under continuous pressure service and may be subjected to backpressure. The Colt C200, C200N consists of two independently operating check valves, two shutoff valves, and four test cocks. For use in non-health hazard applications. The Colt Series C200, C200N features Lead Free* construction to comply with Lead Free* installation requirements.

Features

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

Materials

- Housing & Sleeve: 304 (Schedule 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

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

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

Available Models

Suffix:

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 – 140°F (0.5°C – 60°C)

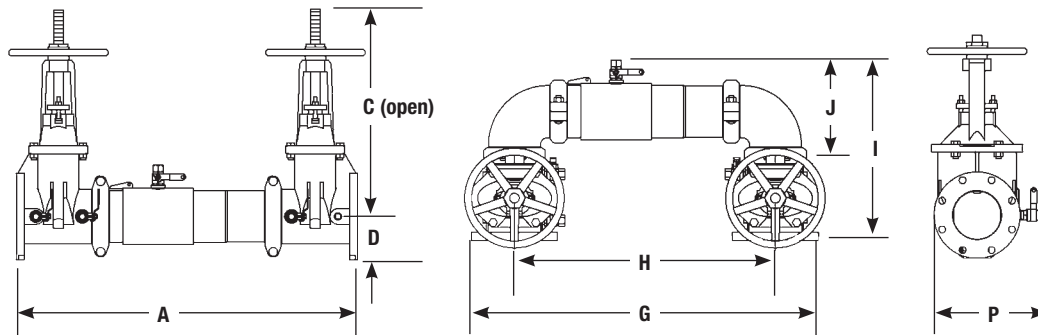
Maximum Working Pressure: 175psi (12.1 bar)

Approvals



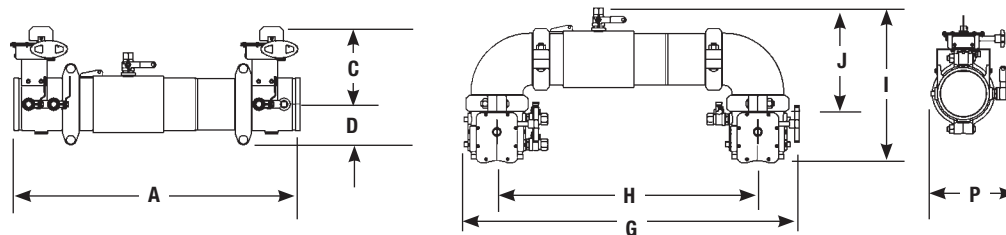
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Dimensions — Weights



C200, C200N

SIZE (DN)		DIMENSIONS										WEIGHT															
in.	mm	A	C (OSY)	C (NRS)	D	G	H	I	J	P	C200NRS	C200OSY	C200N NRS	C200N OSY													
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	65	30¾	781	16⅞	416	9⅞	238	3½	89	29⅞	738	21½	546	15½	393	8⅜	223	9⅞	234	115	52	125	57	123	56	133	60
3	80	31¾	806	18⅞	479	10¼	260	3⅞	94	30¼	768	22¼	565	17⅞	435	9⅞	233	10½	267	131	59	145	66	144	65	158	72
4	100	33¾	857	22¾	578	12⅞	310	4	102	33	838	23½	597	18½	470	9⅞	252	11¾	284	161	73	161	73	184	83	184	83
6	150	43½	1105	30⅞	765	16	406	5½	140	44¾	1137	33¼	845	23⅞	589	13⅞	332	15	381	273	124	295	134	314	142	336	152
8	200	49¾	1264	37¾	959	19⅞	506	6⅞	170	54¾	1375	40⅞	1019	27⅞	697	15⅞	399	17¾	437	438	199	480	218	513	233	555	252
10	250	57¾	1467	45¾	1162	23⅞	605	8⅞	208	66	1676	49½	1257	32½	826	17⅞	440	20	508	721	327	781	354	891	404	951	431



C200BFG, C200NBFG

SIZE (DN)		DIMENSIONS										WEIGHT									
in.	mm	A	C	D	G	H	I	J	P	C200BFG	C200NBFG										
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.		
2½	65	27¾	705	8	203	3½	89	29⅞	759	21½	546	14⅞	379	8⅜	223	9	229	56	25	64	29
3	80	28¼	718	8⅞	211	3⅞	94	30⅞	779	22¼	565	15⅞	392	9⅞	233	9½	241	54	24	67	30
4	100	29	737	8⅞	227	3⅞	94	31⅞	811	23½	597	16¼	412	9⅞	252	10	254	61	28	84	38
6	150	36½	927	10	254	5	127	43⅞	1097	33¼	845	19⅞	500	13⅞	332	10½	267	117	53	157	71
8	200	42¾	1086	12¼	311	6½	165	51⅞	1297	40⅞	1019	23⅞	592	15⅞	399	14⅞	361	261	118	337	153

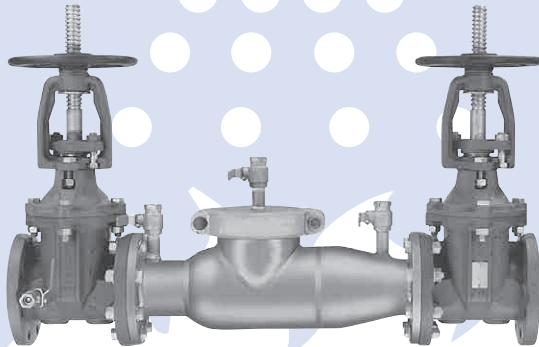
Noryl® is a registered trademark of SABIC Innovative Plastics™.

IMPORTANT: Inquire with governing authorities for local installation requirements

SilverBullet™ Series 2000SS

Double Check Valve Assemblies

2000SS: Sizes: 2½" – 12" (65 – 300mm)



2000SS

1 Double Check Valve Assemblies

LEAD FREE*

The SilverBullet™ Series 2000SS Double Check Valve Assemblies are designed to prevent the reverse flow of polluted water from entering the potable water supply. These models can be applied, where approved by the local authority having jurisdiction, on non-health hazard installations. Series 2000SS feature short end-to-end dimensions, light weight stainless steel body, and the lowest head loss available. The Series 2000SS features Lead Free* construction to comply with Lead Free* installation requirements.

Features

- Cam-Check Assembly provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless steel body is half the weight of competitive designs reducing installation and shipping costs
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- May be installed in horizontal or vertical flow up position

Available Models

Suffix:

- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- LG – without gate valves

- **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

Materials

All internal metal parts: 300 Series stainless steel

Main valve body: 300 Series stainless steel

Check assembly: Noryl®

Pressure — Temperature

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

Maximum Working Pressure: 175psi (12.1 bar)

Approvals



1015



(OSY only)



(4"-10" OSY only)

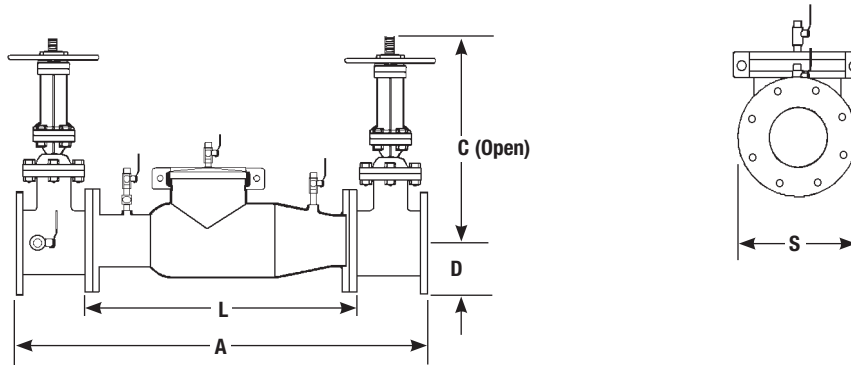
Flange dimension in accordance with AWWA Class D

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

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

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

Dimensions – Weights



200SS

SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT					
		A		C				D		L		S		w/Gates		w/o Gates	
				OSY		NRS											
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	37	965	16¾	416	9⅞	238	3½	89	22	559	7	178	140	64	53	24
3	80	38	965	18⅞	479	10¼	260	3¾	95	22	559	7½	191	215	98	55	25
4	100	40	1016	22¾	578	12¾	310	4½	114	22	559	9	229	225	102	58	26
6	150	48½	1232	30⅞	765	16	406	5½	140	27½	699	11	279	375	170	105	48
8	200	52½	1334	37¾	959	19⅝	506	6¾	171	29½	749	13½	343	561	254	169	77
10	250	55½	1410	45¾	1162	23⅓	605	8	200	29½	749	16	406	763	346	179	81
12	300	57½	1461	53⅞	1349	26¾	679	9½	241	29½	749	19	483	1033	469	209	95

IMPORTANT: Inquire with governing authorities for local installation requirements

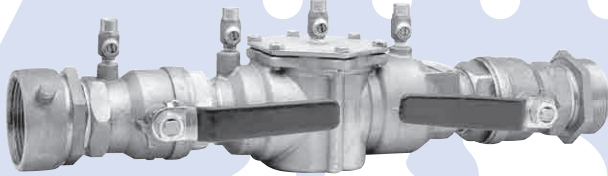
Series LF2000B, 2000B

Double Check Valve Assemblies

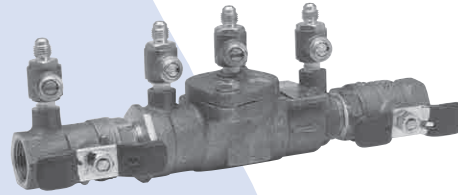
Sizes: ½" – 2" (15 – 50mm)

1

Double Check Valve Assemblies



2" 2000B HC
(50mm)



¾" 2000B
(20mm)

Features

- Ease of maintenance with only one cover
- Top entry
- Replaceable seats and seat discs
- Modular construction
- Compact design
- ½" – 2" (15 – 50mm) Cast bronze body construction
- Top mounted ball valve test cocks
- Low pressure drop
- No special tools required
- ½" – 1" (15 – 25mm) have tee handles

Pressure — Temperature

Temperature Range: 33°F – 180°F
(0.5°C – 82°C)

Maximum Working Pressure: 175psi
(12.1 bar)

LF2000B

LEAD FREE*

Series LF2000B, 2000B Double Check Valve Assemblies shall be installed at referenced cross-connections to prevent the backflow of polluted water into the potable water supply. Only those cross-connections identified by local inspection authorities as non-health hazard shall be allowed the use of an approved double check valve assembly. Check with local authority having jurisdiction regarding vertical orientation, frequency of testing or other installation requirements.

LF2000B features Lead Free* construction to comply with Lead Free installation requirements.

Available Models

B – quarter turn ball valves

LBV – less ball valves

Approvals



1015



B64.5



61-G



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

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

2000B

For Use in Non-Potable Applications

Series 2000B are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

Available Models

Suffix:

- B – quarter turn ball valves
- LBV – less ball valves
- SH – stainless steel ball valve handles
- HC – 2½" inlet/outlet fire hydrant fitting (2" valve)

Prefix:

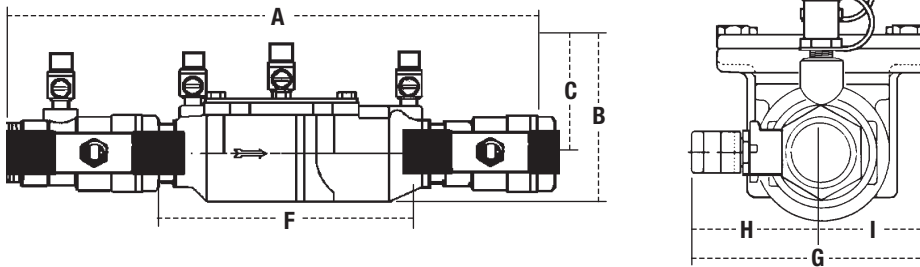
- U – union connections

Approvals



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

Dimensions – Weights



LF2000B/2000B

SIZE (DN)		DIMENSIONS										WEIGHT					
in.	mm	A		B		C		F		G		H		I		lbs.	kg.
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
½	15	10	254	4⅝	117	2⅞	62	5	127	3⅜	85	2⅝	59	2⅞	52	4.5	2
¾	20	11⅛	282	4	102	3⅞	79	6⅜	157	3⅞	87	2⅞	54	1⅝	33	5	2.3
1	25	13¼	337	5⅝	130	4	102	7½	191	3⅞	85	11⅞	43	11⅞	43	12	5.4
1¼	32	16⅜	416	5	127	3⅞	84	9½	241	5	127	3	76	2	50	15	6.8
1½	40	16¾	425	4⅞	124	3½	89	9¾	248	5⅜	148	3⅞	79	2⅞	68	15.86	7.2
2	50	19½	495	6¼	159	4	102	13⅜	340	6⅞	156	3⅞	87	2⅞	68	25.75	11.7

Standard 2000B-HC fire hydrant fittings dimension "A" = 23½" (594mm)

Strainer sold separately

IMPORTANT: Inquire with governing authorities for local installation requirements

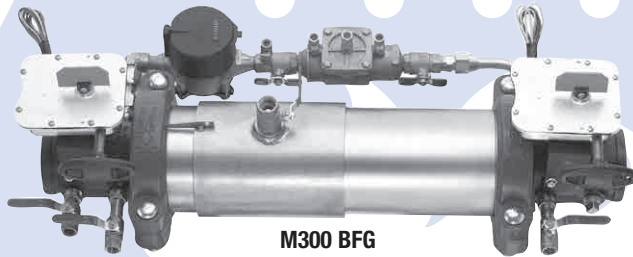
Maxim™ Series LFM300, LFM300N, M300, M300N

Double Check Detector Assemblies

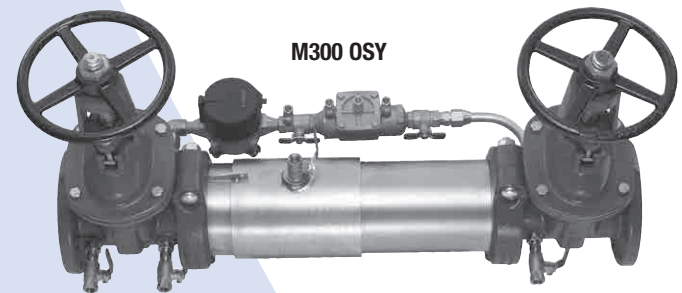
Sizes: 2½" – 10" (65 – 250mm)

2

Double Check Detector Assemblies



M300 BFG



M300 OSY

Features

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

Pressure — Temperature

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

Maximum Working Pressure: 175psi
(12.1 bar)

Approvals



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

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

The Maxim Series LFM300, LFM300N, M300, M300N Double Check Detector Assemblies are used to prevent backflow of pollutants, that are objectionable but not toxic, from entering the potable water supply system. The Maxim M300, M300N may be installed under continuous pressure service and may be subjected to backpressure. The Maxim LFM300, LFM300N, M300, and M300N are used primarily on fire line sprinkler systems when it is necessary to monitor unauthorized use of water. For use in non-health hazard applications.

LEAD FREE*

Series LFM300, LFM300N features Lead Free* construction to comply with Lead Free installation requirements.

Materials

- Housing & Sleeve: 304 (Schedule 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

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

Available Models

Suffix:

OSY – UL/FM outside stem and yoke, resilient seated gate valves

BFG – UL/FM grooved gear operated butterfly valves with 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**

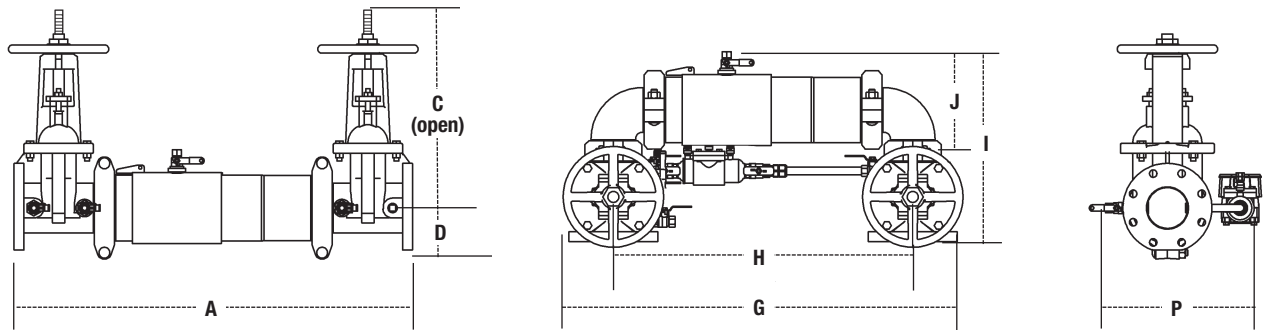
**Consult factory for dimensions

M300, M300N

For Use in Non-Potable Applications

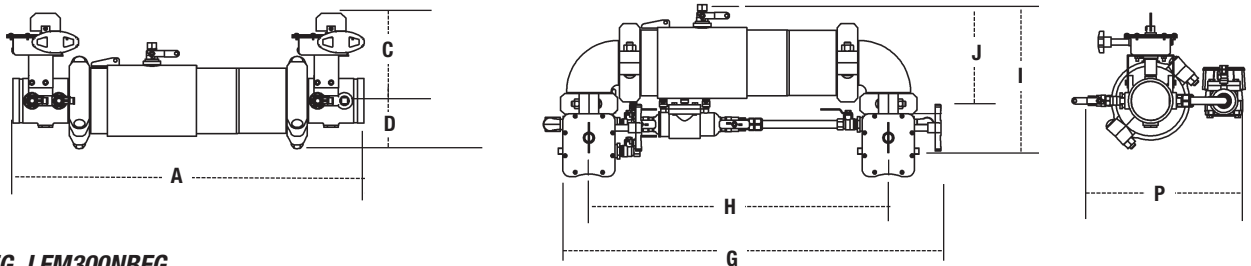
Series M300, M300N are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing code and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing.

Dimensions — Weights



LFM300, LFM300N

SIZE	DIMENSIONS										WEIGHT									
	A		C (OSY)		D		G		H		I		J		P		M300		M300N	
in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kgs.	lbs.	kgs.
2½	30¾	781	16¾	416	3½	89	29⅞	738	21½	546	15⅞	402	8⅜	223	13⅞	335	139	63	147	67
3	31¾	806	18⅞	479	3⅞	94	30½	775	22¼	565	17⅞	435	9⅞	233	14½	368	159	72	172	78
4	40½	1029	22¾	578	5	127	39¾	1010	30¼	768	20⅞	518	11⅞	297	15⅞	386	233	106	256	116
6	47¾	1213	30⅞	765	6½	165	40	1016	37½	953	24¾	629	14⅞	360	19½	495	404	183	444	201
8	54¾	1391	37¾	959	7½	191	59⅞	1502	45⅞	1146	28⅞	721	16¾	425	21½	546	578	262	654	297
10	57¾	1467	45¾	1162	8¾	208	66	1676	49½	1257	32½	826	17⅞	440	24	610	795	361	965	438



LFM300BFG, LFM300NBFG

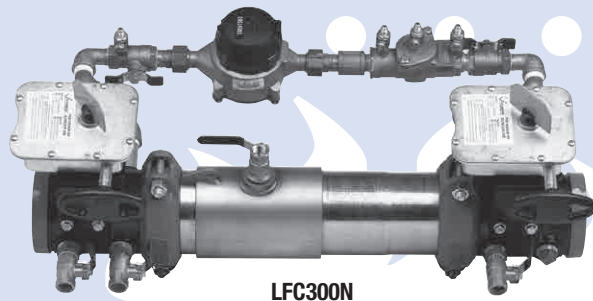
SIZE	DIMENSIONS										WEIGHT									
	A		C		D		G		H		I		J		P		M300BFG		M300NBFG	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	27¾	705	8	203	3½	89	29⅞	759	21½	546	14⅞	379	8⅜	223	13	330	70	32	78	35
3	28¼	718	8⅞	211	3⅞	94	30¾	781	22¼	565	15⅞	392	9⅞	233	13½	343	68	31	81	37
4	35¾	908	8⅞	221	4⅞	122	39	991	30¼	768	18	457	11⅞	297	15	381	133	60	156	71
6	40¾	1035	10	254	6	152	47⅞	1205	37½	953	20⅞	525	14⅞	360	19½	495	225	102	265	120
8	47¾	1213	12⅞	310	6⅞	173	56	1422	45⅞	1146	24⅞	613	16¾	425	21½	546	359	163	435	197

IMPORTANT: Inquire with governing authorities for local installation requirements

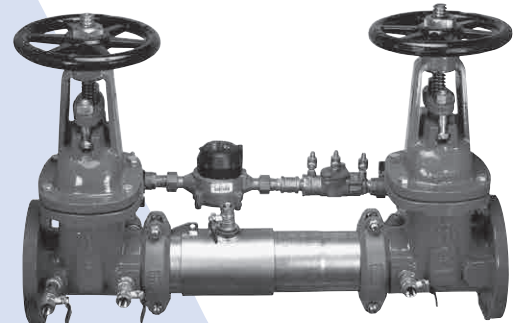
Colt™ Series LFC300, LFC300N, C300, C300N

Double Check Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)



LFC300N



LFC300

Features

- Extremely compact design
- 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented tri-link check provides lowest pressure loss
- Unmatched ease of serviceability
- Available with grooved butterfly valve shutoffs
- May be used for horizontal, vertical or N pattern installations
- Replaceable check disc rubber

Pressure-Temperature

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

Maximum Working Pressure: 175psi
(12.1 bar)

Models

Suffix:

OSY – UL/FM outside stem and yoke resilient seated gate valves

BFG – UL/FM grooved gear operated butterfly valves with 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

LFC300, LFC300N

LEAD FREE*

Series LFC300, LFC300N Double Check Detector Assemblies are used to prevent backflow of non-health hazard pollutants that are objectionable but not toxic, from entering the potable water supply system. The LFC300, LFC300N may be installed under continuous pressure service and may be subjected to backpressure and backsiphonage. Series LFC300, LFC300N is used primarily on fire line sprinkler systems when it is necessary to monitor unauthorized use of water. The LFC300 and LFC300N features Lead Free* construction to comply with Lead Free* installation requirements.

Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Lead Free* Copper Silicone Alloy Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Noryl® is a registered trademark of SABIC Innovative Plastics™

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

Approvals



C300, C300N

For Use in Non-Potable Applications

Series C300, C300N Double Check Detector Assemblies are designed to prevent backflow on non-health hazard pollutants that are objectionable but not toxic to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

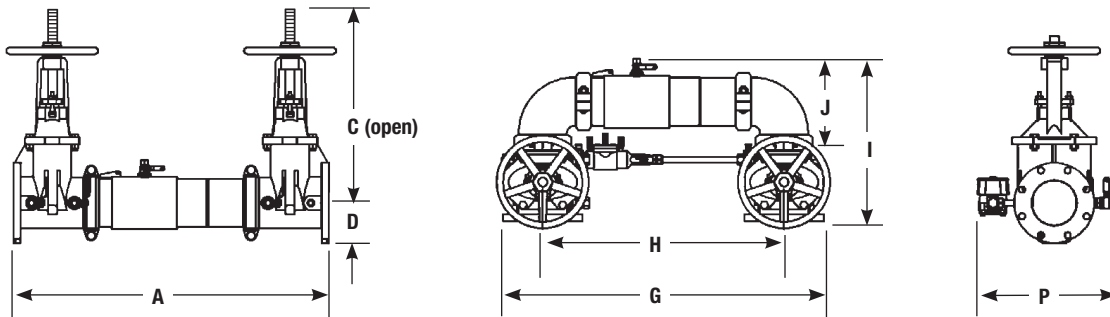
Approvals



Materials

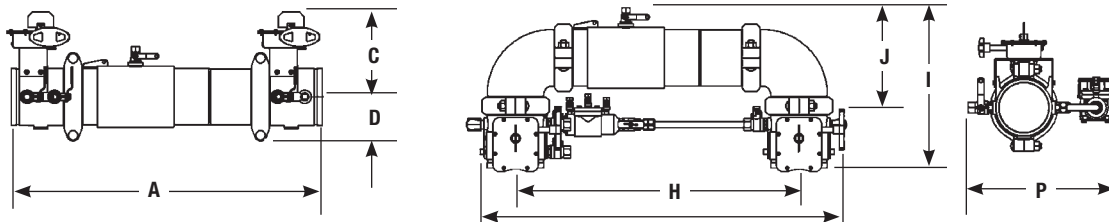
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Dimensions — Weights



C300, C300N

SIZE (DN)		DIMENSIONS (APPROX.)														WEIGHT					
		A		C (OSY)		D		G		H		I		J		P		C300		C300N	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	30¾	781	16⅞	416	3½	89	29⅞	738	21½	546	15½	393	8⅞	223	13⅞	335	139	63	147	67
3	80	31¾	806	18⅞	479	3⅞	94	30¼	768	22¼	565	17⅞	435	9⅞	233	14½	368	159	72	172	78
4	100	33¾	857	22¼	578	4	102	33	838	23½	597	18½	470	9⅞	252	15⅞	386	175	79	198	90
6	150	43½	1105	30⅞	765	5½	140	44¾	1137	33¼	845	23⅞	589	13⅞	332	19	483	309	140	350	159
8	200	49¾	1264	37¼	959	6⅞	170	54⅞	1375	40⅞	1019	27⅞	697	15⅞	399	21⅞	538	494	224	569	258
10	250	57¾	1467	45¾	1162	8⅞	208	66	1676	49½	1257	32½	826	17⅞	440	24	610	795	361	965	438



C300BFG, C300NBFG

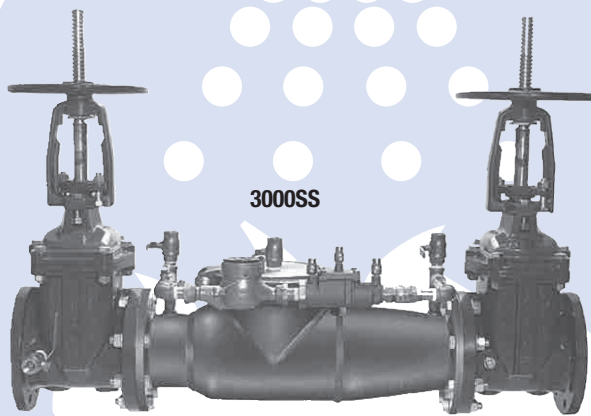
SIZE (DN)		DIMENSIONS (APPROX.)														WEIGHT					
		A		C		D		G		H		I		J		P		C300BFG		C300NBFG	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	27¾	705	8	203	3½	89	29⅞	759	21½	546	14⅞	379	8⅞	223	13	330	70	32	78	35
3	80	28¼	718	8⅞	211	3⅞	94	30⅞	779	22¼	565	15⅞	392	9⅞	233	13½	343	68	31	81	37
4	100	29	737	8⅞	227	3⅞	94	31⅞	811	23½	597	16¼	412	9⅞	252	14	356	75	34	98	44
6	150	36½	927	10	254	5	127	43⅞	1097	33¼	845	19⅞	500	13⅞	332	14½	368	131	59	171	78
8	200	42¾	1086	12¼	311	6½	165	51⅞	1297	40⅞	1019	23⅞	592	15⅞	399	18⅞	462	275	125	351	159

IMPORTANT: Inquire with governing authorities for local installation requirements

SilverBullet™ Series 3000SS

Double Check Detector Assemblies

3000SS: Sizes: 2½" – 12" (65 – 300mm)



2

Double Check Detector Assemblies

The SilverBullet™ Series 3000SS Double Check Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing.

Features

- Cam-Check Assembly provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless Steel body is half the weight of competitive designs reducing installation and shipping cost
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- Furnished with 5/8" x 3/4" bronze meter (gpm or cfm)
- Detects underground leaks and unauthorized water use
- Maybe installed horizontal or vertical "flow up" position

Materials

All internal metal parts: 300 Series stainless steel

Main valve body: 300 Series stainless steel

Check assembly: Noryl®

Available Models

Suffix:

- LG – without gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- CFM – cubic feet per minute
- GPM – gallons per minute meter
- *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 (0.5°C – 43°C)

Maximum Working Pressure: 175psi (12.1 bar)

Approvals



1048



(OSY only)

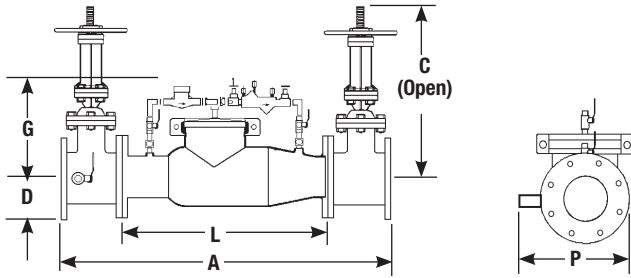


Approved

Flange dimension in accordance with AWWA Class D.

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

Dimensions – Weights



3000SS

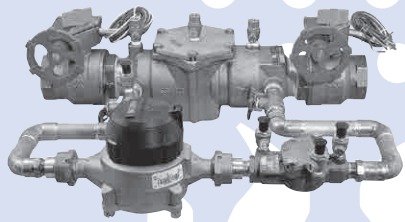
SIZE (DN)		DIMENSIONS (APPROX.)						WEIGHT									
		A		C (OSY)		D		G		L		P		w/Gates		w/o Gates	
<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>
2½	65	37	965	16¾	416	3½	89	10	250	22	559	12½	318	155	70	68	31
3	80	38	965	18⅞	479	3¾	95	10	250	22	559	13	330	230	104	70	32
4	100	40	1016	22¾	578	4½	114	10	250	22	559	14½	368	240	109	73	33
6	150	48½	1232	30⅞	765	5½	140	15	381	27½	699	15½	394	390	177	120	54
8	200	52½	1334	37¾	959	6¾	171	15	381	29½	749	18½	464	572	259	180	82
10	250	55½	1410	45¾	1162	8	200	15	381	29½	749	19½	495	774	351	190	86
12	300	57½	1461	53⅞	1349	9½	241	15	381	29½	749	21	533	1044	474	220	100

IMPORTANT: Inquire with governing authorities for local installation requirements

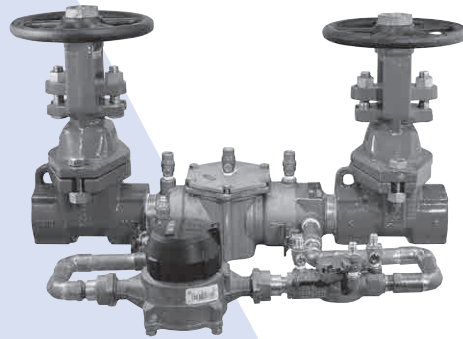
Series 3000BM1

Double Check Detector Assembly

Sizes: 2" (50mm)



3000BM1-FP-GPM



3000BM1-OSY-GPM

Series 3000B Double Check Detector Assembly are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority regulations for non-potable service applications such as irrigation, fire line, or industrial processing. The Series 3000B is ideal for use on non-health hazard fire protection systems to detect leaks or unauthorized water usage.

Modular check design concept facilitates maintenance and assembly access. All sizes are standardly equipped with resilient seated OSY shutoff valves and $\frac{5}{8}$ " x $\frac{3}{4}$ " (16 x 19mm) meter.

Features

Main Valve:

- Gear Operated Ball Valve Shutoffs with Pre-Wired Tamper Switches (2)
- Compact Design for Ease of Installation
- Inline Serviceable Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Loaded Checks
- Field Replaceable Seats & Discs
- Field Replaceable Auxiliary Bypass Line & Components

Auxiliary Bypass:

- Compact Bypass Design; Remains within Main Valve Assembly Profile
- Inline Serviceable $\frac{1}{2}$ " Backflow Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Loaded Checks
- Field Replaceable Seats & Discs
- Detect Potential Underground Water Leaks
- Detect Unauthorized Water Usage

Material Specifications

- Body: Cast Bronze ASTM B584
- Elastomers: Silicone
- O-Rings: EPDM
- Check Modules: Engineered Plastics

Pressure — Temperature

Max. Working Pressure: 175psi

Min. Working Pressure: 10psi

Hydrostatic Test Pressure: 350psi

Hydrostatic Safety Pressure Rating: 700psi

Continuous Operating Range: 33°F-110°F (0.5°C-43°C)

Intermittent Operating Range up to 140°F (60°C) Must not exceed 12 hour duration

Configurable Options

Suffix

OSY: UL/FM Approved OS&Y Gate Valves (ANSI/AWWA C515 Compliant)

FP: UL Approved Gear Operated Ball Valves

CFM: Cubic Feet per Minute $\frac{5}{8}$ " x $\frac{3}{4}$ " Water Meter (ANSI/AWWA C700 Compliant)

GPM: Gallon per Minute $\frac{5}{8}$ " x $\frac{3}{4}$ " Water Meter (ANSI/AWWA C700 Compliant)

LF: Less Shut-off valves; This is NOT an APPROVED ASSEMBLY

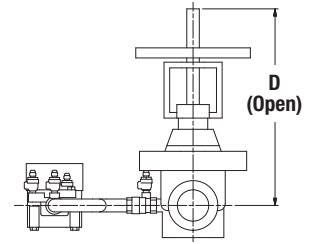
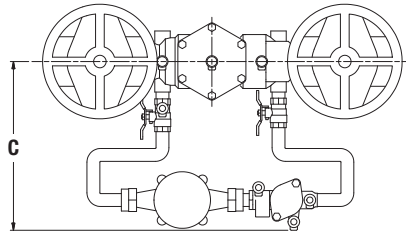
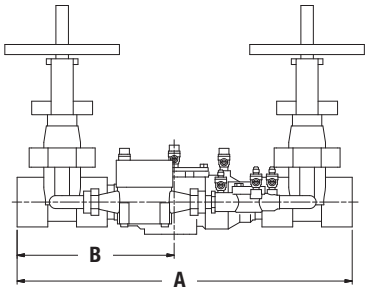
LM: No Water Meter Installed in Auxiliary Bypass Line

Approvals



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

Dimensions – Weights

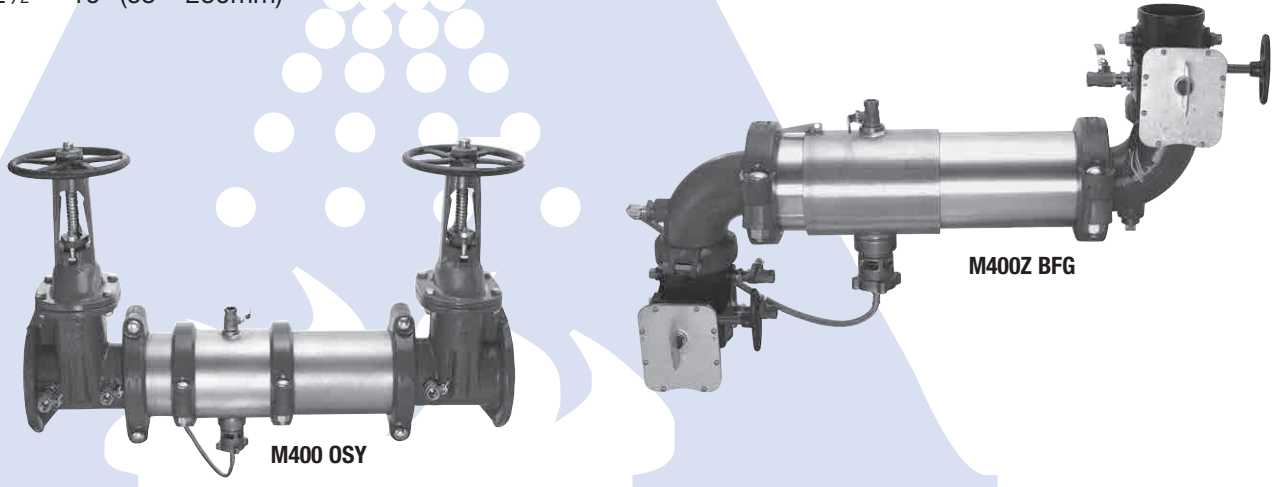


MODEL	SIZE (DN)		DIMENSIONS								WEIGHT	
	IN.	MM	A		B		C		D		LBS.	KGS.
3000BM1-OSY	2	50	22 ⁵ / ₈	575	10 ⁹ / ₁₆	268	11 ¹³ / ₁₆	300	13 ¹ / ₂	343	85	38.6
3000BM1-FP	2	50	18 ⁷ / ₈	479	8 ⁷ / ₈	225	11 ¹³ / ₁₆	300	4 ¹ / ₄	108	35	15.8

Maxim™ Series M400, M400N, M400Z

Reduced Pressure Zone Assemblies

Sizes: 2½" – 10" (65 – 250mm)



3

Reduced Pressure Zone Assemblies

LEAD FREE* The Maxim Series M400, M400N, M400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Maxim M400, M400N, M400Z are normally used in health hazard applications for protection against backsiphonage, back-pressure and the fouling of either check valve. The Series M400, M400U, M400Z features Lead Free* construction to comply with Lead Free* installation requirements.

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, N Pattern or Z Pattern Installations
- Replaceable Check Disc Rubber

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

Available Models

Suffix:

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 with 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 (0.5°C – 43°C)

Maximum Working Pressure: 175psi (12.1 bar)

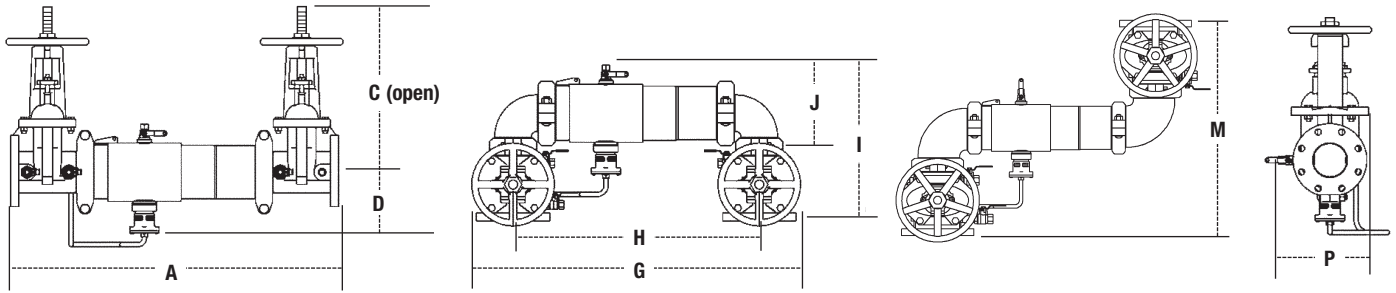
Approvals



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

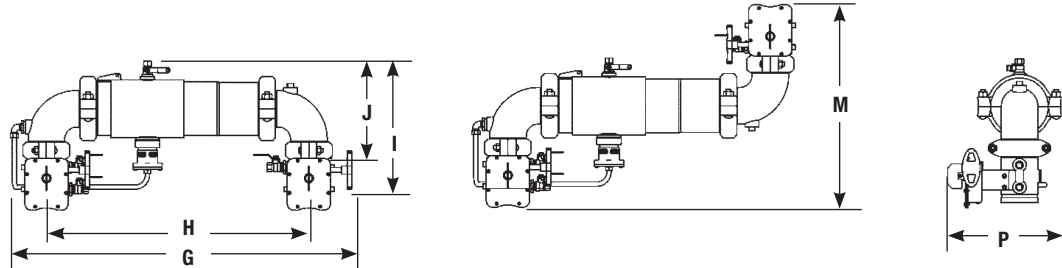
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Dimensions — Weights



M400, M400N, M400Z

SIZE (DN)		DIMENSIONS										WEIGHT																	
in.	mm	A	C (OSY)	C (NRS)	D	H	I	P	M	G	J	M400SY	M400NRS	M400NOSY	M400NNRS														
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.														
2½	65	30¾	781	16¾	416	9¾	238	6½	165	21½	546	15⅞	395	9¾	238	21¼	540	29½	749	8⅜	223	128	58	118	54	136	62	126	57
3	80	31¾	806	18⅞	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	100	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	150	47¾	1213	30⅞	765	16	406	9½	241	39½	1003	23⅞	580	15½	394	34¼	870	49	1244	14⅞	358	393	178	371	168	433	196	411	186
8	200	54¾	1391	37¾	959	9⅞	506	10½	267	45⅞	1146	27⅞	690	17⅞	448	36⅞	937	59⅞	1502	16¾	425	567	257	525	238	643	292	601	273
10	250	57¾	1476	45¼	1162	23⅞	605	11¼	285	49½	1257	32½	825	20⅞	516	44½	1124	66	1676	17⅞	440	784	356	724	356	954	433	894	406



M400NBF, M400ZBF

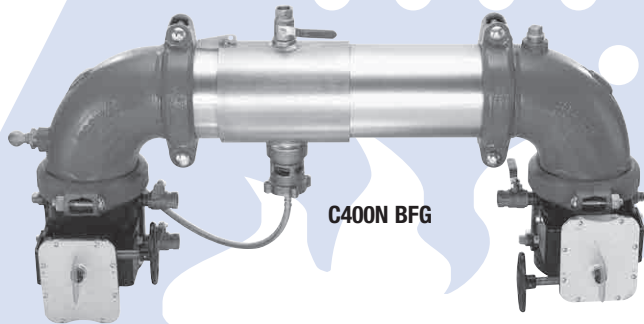
SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT			
in.	mm	H	I	P	M	G	J	lbs.	kgs.						
		in.	mm	in.	mm	in.	mm	in.	mm						
2½	65	23	584	15⅞	398	11⅞	300	19¾	502	32½	825	9½	242	67	30
3	80	24	610	16⅞	415	12⅞	308	21¼	540	34	864	10⅞	255	70	32
4	100	32¼	819	18⅞	466	13⅞	354	23½	597	42½	1080	12	305	145	66
6	150	39½	1003	21¾	553	16⅞	418	27¼	692	50⅞	1291	15⅞	386	254	115

IMPORTANT: Inquire with governing authorities for local installation requirements

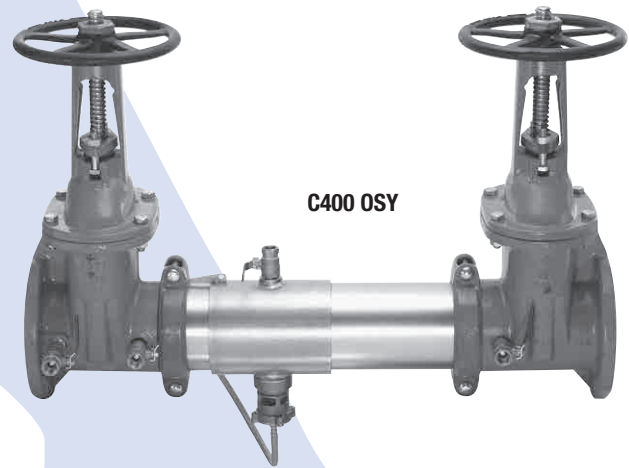
Colt™ Series C400, C400N, C400Z

Reduced Pressure Zone Assemblies

Sizes: 2½" – 10" (65 – 250mm)



C400N BFG



C400 OSY

LEAD FREE*

The Colt Series C400, C400N, C400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Colt C400, C400N, C400Z are normally used in health hazard applications for protection against backsiphonage, backpressure and the fouling of either check valve. They feature Lead Free* construction to comply with Lead Free* installation requirements.

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
- May be Used for Horizontal, N Pattern or Z Pattern Installations
- Replaceable Check Disc Rubber

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

Available Models

Suffix:

- 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 with 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 – 140°F (0.5°C – 60°C)

Maximum Working Pressure: 175psi (12.1 bar)

Approvals

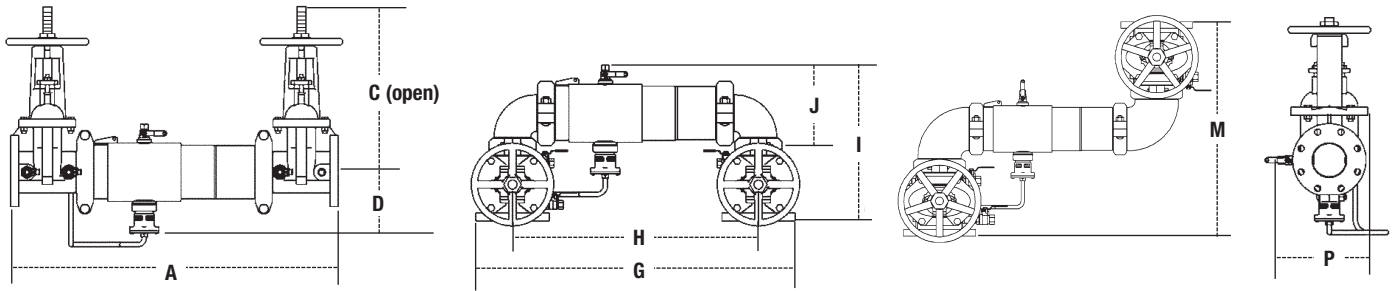


Noryl® is a registered trademark of SABIC Innovative Plastics™.

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

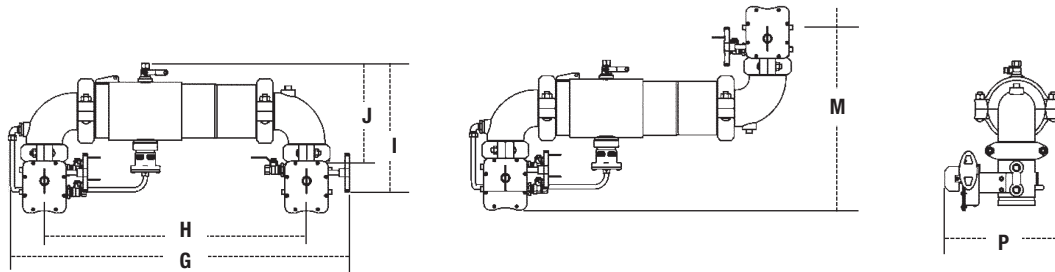
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Dimensions — Weights



C400, C400N, C400Z

SIZE (DN)		DIMENSIONS										WEIGHT																	
		A	C (OSY)		C (NRS)		D		G		H		I		J		M		P		C400		C400N						
in.	mm	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	30¾	781	16¾	416	9¾	238	6½	165	29¼	738	21½	546	15½	393	8¼	223	21¼	540	9¾	234	118	54	128	58	126	57	136	62
3	80	31¾	806	18¾	479	10¼	260	6½	170	30¼	768	22¼	565	17¾	435	9¾	233	23	584	10½	267	134	61	148	67	147	67	161	73
4	100	33¾	857	22¾	578	12¾	310	7	178	33	838	23½	597	18½	470	9¾	252	26¼	667	11¾	284	164	74	164	74	187	85	187	85
6	150	43½	1105	30¾	765	16	406	8½	216	44¾	1137	35¼	895	23¾	589	13¾	332	34¼	870	15	381	276	125	298	135	317	144	339	154
8	200	49¾	1264	37¾	959	19¾	506	9½	246	54¾	1375	40½	1019	27¾	697	15½	399	36¾	937	17¾	437	441	200	483	219	516	234	558	253
10	250	57¾	1467	45¾	1162	23¾	605	11¾	285	66	1676	49½	1257	32½	826	17¾	440	44½	1124	20	508	723	328	783	355	893	405	950	431

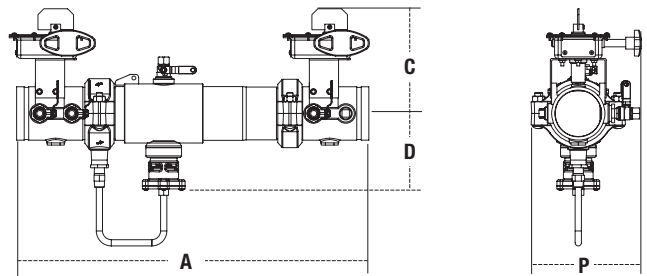


C400N BFG/C400Z BFG

SIZE (DN)		DIMENSIONS						WEIGHT							
		G		H		I		J		M		P		C400N, C400Z	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	65	23	584	23	584	15½	394	9½	241	19¾	502	11¾	300	67	30
3	80	24	610	24	610	16½	414	10¼	256	21¼	540	12¾	308	70	32
4	100	25½	648	25½	648	17¾	437	10½	279	23½	597	12¾	321	87	39
6	150	35¼	895	35¼	895	20½	521	13½	343	27¼	692	15	382	160	73

C400 BFG

SIZE (DN)		DIMENSIONS				WEIGHT					
		A	C		D		P				
in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.		
4	100	29	737	7¾	197	6¾	162	9½	241	66	30
6	150	36½	927	9¼	246	7¾	189	14¼	362	122	55



IMPORTANT: Inquire with governing authorities for local installation requirements

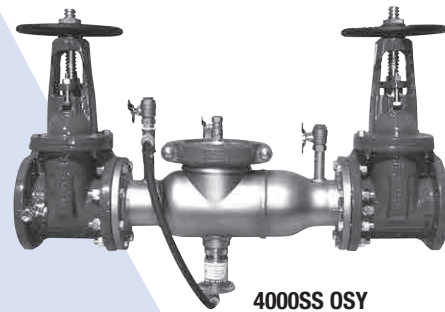
SilverBullet™ Series 4000SS

Reduced Pressure Zone Assemblies

Sizes: 2½" – 10" (65 – 250mm)

LEAD FREE*

The SilverBullet™ Series 4000SS Reduced Pressure Zone Assemblies are designed to provide protection of the potable water supply in accordance with national codes. This series can be used where approved by the local authority having jurisdiction on health hazard cross-connections. Series 4000SS features short lay length, lightweight stainless steel body, corrosive resistant stainless steel relief valve, and cam-check assembly.



4000SS OSY

Features

- Stainless steel construction provides long term corrosion resistance and maximum strength
- Stainless steel body is half the weight of competitive designs reducing installation & shipping costs
- Short end-to-end dimensions makes retrofit easy
- Cam-check assembly provides maximum flow at low pressure drop
- No special tools required for servicing
- Compact construction allows for smaller enclosures
- Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs

Materials

All internal metal parts: 300 Series stainless steel
 Main valve body: 300 Series stainless steel
 Check assembly: Noryl®
 Flange dimension in accordance with AWWA Class D

Pressure — Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C)
 Maximum Working Pressure: 175psi (12.1 bar)

Approvals



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

Available Models

Suffix:

NRS – non-rising stem resilient seated gate valves
 OSY – UL/FM outside stem and yoke resilient seated gate valves

LG – without gate valves

**OSY FxG – flanged inlet gate connection and grooved outlet gate connection

**OSY GxF – grooved inlet gate connection and flanged outlet gate connection

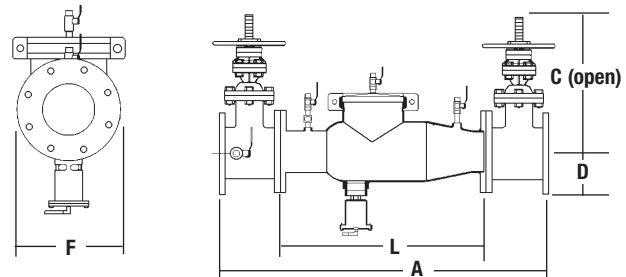
**OSY GxG – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory**

Post indicator plate and operating nut available - consult factory**

**Consult factory for dimensions

Dimensions – Weights



SIZE (DN)	DIMENSIONS (APPROX.)												WEIGHT				
	A		C				D		F		L		w/Gates		w/o Gates		
	in.	mm	OSY		NRS		in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.	
2½	65	37	940	16¾	416	9¾	238	10½	267	7	178	22	559	148	67	60	27
3	80	38	965	18¾	479	10¼	260	10½	267	7½	191	22	559	226	103	62	28
4	100	40	1016	22¾	578	12¾	310	10½	267	9	229	22	559	235	107	65	30
6	150	48½	1232	30¾	765	16	406	11½	292	11	279	27½	699	380	172	110	50
8	200	52½	1334	37¾	959	19½	506	12½	318	13½	343	29½	749	571	259	179	81
10	250	55½	1410	45¾	1162	23½	605	12½	318	16	406	29½	749	773	351	189	86

NOTICE

The installation of a drain line is recommended. When installing a drain line, an air gap is necessary. The 4000SS should be installed with a minimum clearance of 12" between lowest point of the assembly and the floor drain or grade.

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

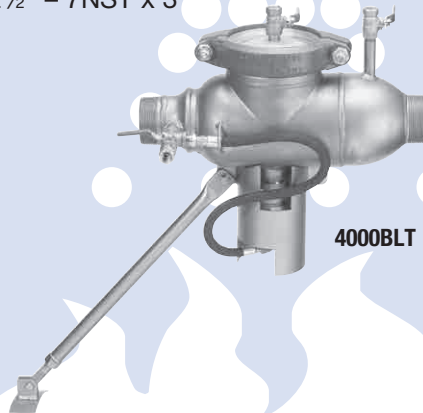
Noryl® is a registered trademark of SABIC Innovative Plastics™.

Series 4000BLT, 6000HMB

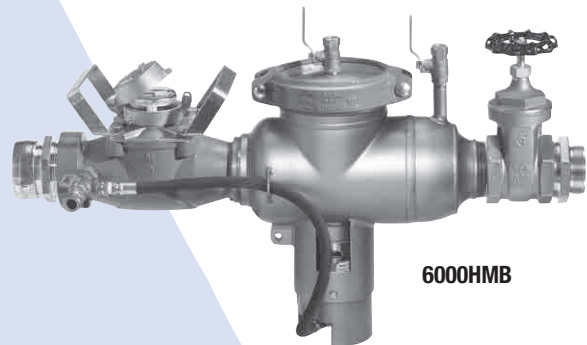
Hydrant Meter Backflow Preventers

4000BLT: Size: 2½" FNPT x 3" MNPT

6000HMB: Size: 2½" – 7NST x 3"



4000BLT



6000HMB

Series 4000BLT, 6000HMB Portable Hydrant Backflow Preventers are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

For use in protection of water from a fire hydrant or other nonpermanent installation where flow is in one direction only and the possibility of a cross-connection exists. This model can be used where approved by the local authority having jurisdiction on health hazard cross-connections.

Ideal for use with client's existing hydrant meter hookup.

Features

- Heavy duty relief valve cover prevents vandalism and protects valve from damage when 6000HMB is transported to another fire hydrant location
- In-line flow restrictor protects the meter measuring element and the backflow preventer components from damage due to excessive flow (6000HMB only)
- Backflow preventer made from 300 Series stainless steel for corrosion resistance
- Portable lightweight design makes device easily transportable between job sites
- Accurately measures flow (HMB Series) and protects the water supply from possible contamination
- Series 4000BLT comes less meter
- Built-In support leg with surface saddle is adjustable in the field
- Factory assembled and tested; no field assembly required; eliminates leaks and improper assembly

Options (BLT Series)

Inlet modules

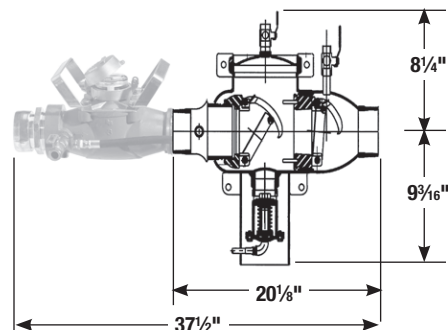
- 3" female or male hydrant thread
- 2½" female or male hydrant thread
- 2½" male NPT thread
- Customer specified

Outlet modules

- 3" gate w/female or male hose thread
- 2½" gate w/female or male hose thread
- 3" gate valve only, w/3" INPT thread
- 2½" gate valve only, w/2½" FNPT thread
- Customer specified

Dimensions – Weights

MODEL	WEIGHT	
	lbs.	kgs.
4000BLT	62	28
6000HMB-GPM	66	30
6000HMB-CFM	66	30



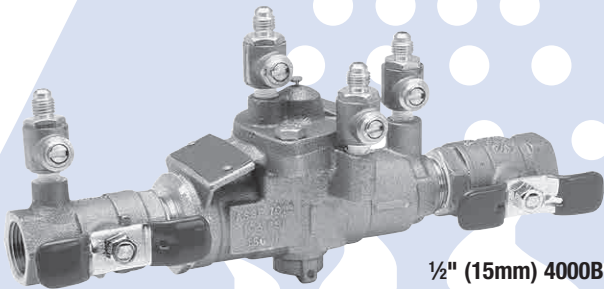
IMPORTANT: Inquire with governing authorities for local installation requirements

For additional information, request literature [ES-A-4000BLT](#) or [ES-A-6000HMB](#). Flow Charts on p. 48

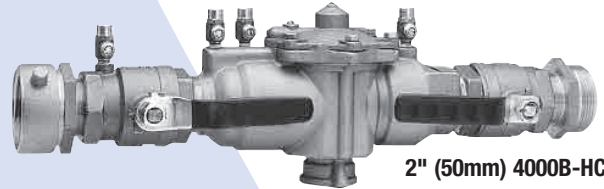
Series LF4000B, 4000B

Reduced Pressure Zone Assemblies

Sizes: ½" – 2" (15 – 50mm)



½" (15mm) 4000B



2" (50mm) 4000B-HC

3

Reduced Pressure Zone Assemblies

Features

- Single access cover and modular check construction for ease of maintenance
- Top entry - all internals immediately accessible
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Lead Free* cast copper silicon alloy body construction for durability ¼" – 2"
- Ball valve test cocks — screwdriver slotted
- Large body passages provides low pressure drop
- Compact, space saving design
- No special tools required for servicing

Pressure-Temperature

Series LF4000B, 4000B:

¼" - 2" (8 – 50mm)

Suitable for supply pressure up to 175psi (12.1 bar).

Water temperature: 33°F – 180°F (0.5° – 75°C).

LF4000B

LEAD FREE

Series LF4000B Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety of installations, including the prevention of health hazard cross-connections in piping systems or for containment at the service line entrance. The LF4000B features Lead Free* construction to comply with Lead Free* installation requirements.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes ¼" – 1" shut-offs have tee handles.

Materials

- Lead Free* cast copper silicon alloy body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts.
- Furnished with quarter-turn, full port, resilient seated, Lead Free* cast copper silicon alloy body ball valve shutoffs.

Models

Suffix:

B - quarter-turn ball valves

Approvals



ASSE, AWWA, CSA, IAPMO

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

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

4000B

For Use in Non-Potable Applications

Series 4000B Reduced Pressure Zone Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes ¼" – 1" shutoffs have tee handles.

Materials

- Bronze body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts.
- Standardly furnished with NPT body connections. For optional bronze union inlet and outlet connections, specify prefix U (½" – 2"). Series 4000B furnished with quarter turn, full port, resilient seated, bronze ball valve shutoffs

Models

Size: ¼" – 2" (8 – 50mm)

Suffix:

B – quarter-turn ball valves

LBV – less ball valves

SH – stainless steel ball valve handles

HC – 2½" inlet/outlet fire hydrant fitting

S – bronze strainer

Prefix:

U – union connections

Approvals



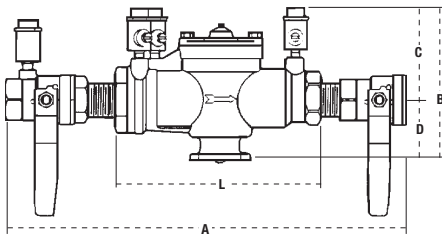
ASSE, AWWA, CSA, IAPMO

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

UL Classified ¾" – 2"

Approval models QT, U

Dimensions – Weights



LF4000B

SIZE	DIMENSIONS								WEIGHT			
	A		B		C		D		L			
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
½	10	250	4⅞	117	3⅞	86	1¼	32	5½	140	4.50	2.0
¾	10¾	273	5	127	3½	89	1½	38	6⅞	171	5.75	2.6
1	16¾	425	5½	140	3	76	2½	64	9½	241	12.25	5.6
1¼	17⅞	44	116	150	3½	89	2½	64	11⅞	289	14.62	6.6
1½	17⅞	454	6	150	3½	89	2½	64	11⅞	283	16.32	7.4
2	21⅞	543	7¾	197	4½	114	¾	83	13½	343	30.00	13.6

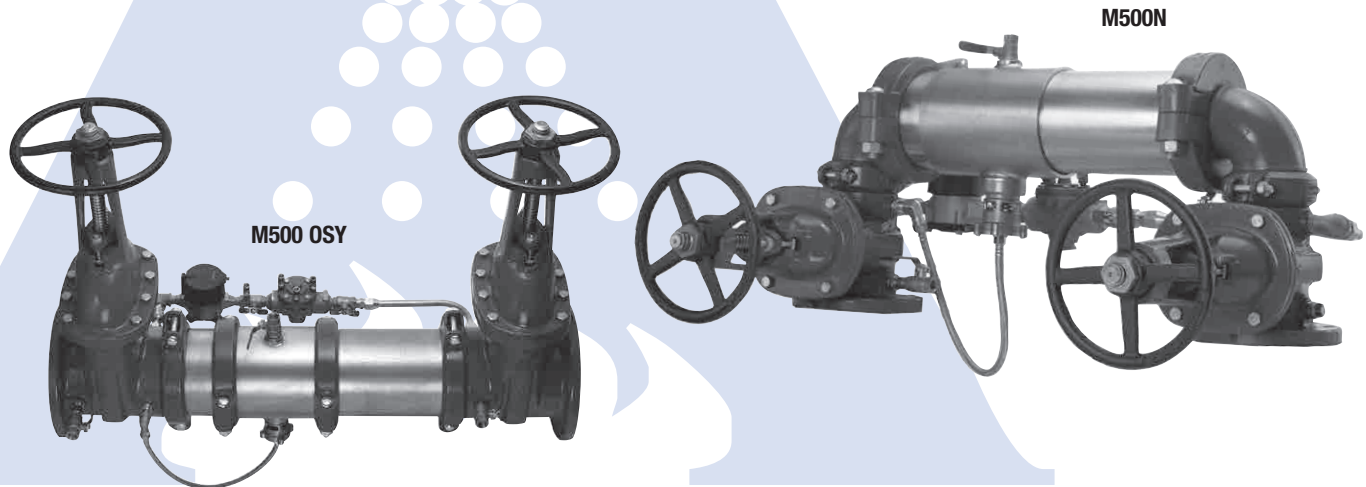
Strainer sold separately

IMPORTANT: Inquire with governing authorities for local installation requirements

Maxim™ Series LFM500, LF500N, LF500Z, M500, M500N, M500Z

Reduced Pressure Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)



LEAD FREE The Maxim Series LFM500, LFM500N, LFM500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The LFM500, LFM500N, LFM500Z are normally used in health hazard applications to protect against backsiphonage, backpressure and the fouling of either check valve. They are used to monitor unauthorized use of water from the fire protection system. LFM500, LF500N, LF500Z feature Lead Free* construction to comply with Lead Free* installation requirements.

4 Reduced Pressure Detector Assemblies

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, N Pattern or Z Pattern Installations
- Replaceable Check Disc Rubber

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
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Pressure — Temperature

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

Maximum Working Pressure: 175psi (12.1 bar)

Available Models

Suffix:

**OSY – UL/FM outside stem and yoke, resilient seated gate valves

**BFG – UL/FM grooved gear operated butterfly valves with 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

Approvals



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

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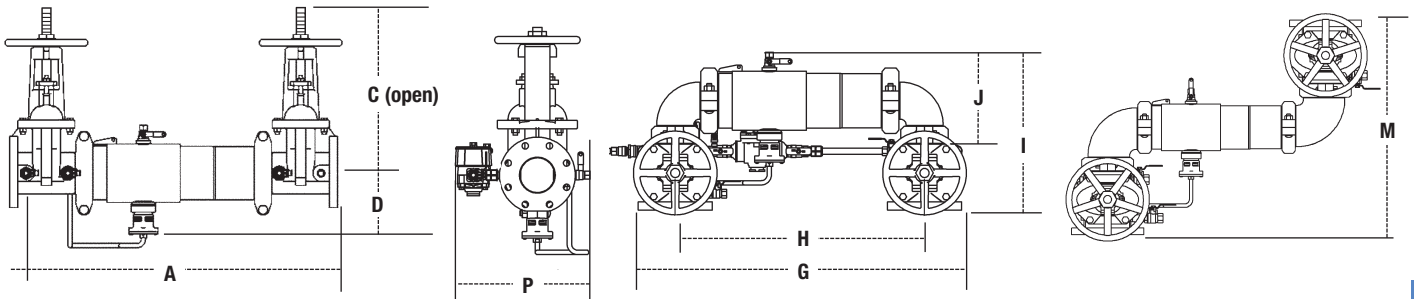
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

M500, M500N, M500Z

For Use in Non-Potable Applications

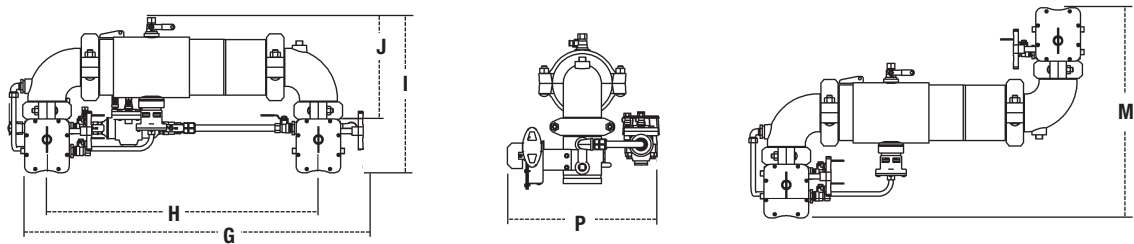
M500, M500N, M500Z are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing.

Dimensions — Weights



LFM500, LFM500N, LFM500Z

SIZE	DIMENSIONS																WEIGHT					
	A		C (OSY)		D		H		I		P		M		G		J		M500		M500N	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	30¾	781	16⅞	416	6½	165	21½	546	15 ⁹ / ₁₆	395	13 ³ / ₈	340	21¼	540	29½	749	8 ¹³ / ₁₆	223	142	64	150	68
3	31¾	806	18⅞	479	6 ¹¹ / ₁₆	170	22¼	565	16¼	413	14 ¹¹ / ₁₆	372	23	584	30½	775	9 ³ / ₁₆	233	162	73	175	79
4	40½	1029	22¾	578	8	203	30¼	768	19 ¹¹ / ₁₆	500	15 ⁵ / ₁₆	389	26¼	667	39¾	1010	11	280	236	107	259	117
6	47¾	1213	30⅞	765	9½	241	37½	953	23 ³ / ₁₆	605	19½	495	34¼	870	49	1245	14 ⁹ / ₁₆	360	407	185	447	203
8	54¾	1391	37¾	959	10½	267	45⅞	1146	27 ³ / ₁₆	690	21 ⁵ / ₈	549	36⅞	937	59⅞	1502	16¾	425	581	264	657	298
10	57¾	1467	45¾	1162	11 ³ / ₁₆	284	49½	1257	32½	825	24 ³ / ₁₆	617	44½	1124	66	1676	17 ⁵ / ₁₆	440	798	362	968	439



LFM500NBFG, LFM500ZBFG

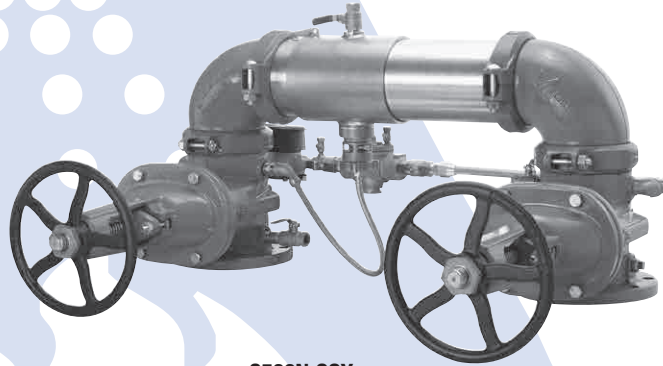
SIZE	DIMENSIONS										WEIGHT			
	H		I		P		M		G		J		lbs.	kgs.
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
2½	23	584	15 ¹¹ / ₁₆	398	11 ¹³ / ₁₆	300	19¾	502	31 ¹⁵ / ₁₆	811	9½	242	81	37
3	24	610	16 ⁵ / ₁₆	415	12 ¹ / ₈	308	21¼	540	33 ⁵ / ₁₆	846	10 ¹ / ₁₆	255	84	38
4	30¼	768	18 ⁵ / ₁₆	466	13 ¹⁵ / ₁₆	454	23½	597	42	1067	12	305	159	72.1
6	37½	953	21¾	553	16 ⁷ / ₁₆	418	27¼	692	50 ¹³ / ₁₆	1291	15 ³ / ₁₆	386	268	121.5

IMPORTANT: Inquire with governing authorities for local installation requirements

Colt™ Series LFC500, LFC500N, LFC500Z, C500, C500N, C500Z

Reduced Pressure Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)



C500N OSY

Features

- Extremely compact design
- 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented torsion spring check provides lowest pressure loss
- Unmatched ease of serviceability
- Replaceable check disc rubber
- Available with grooved butterfly valve shutoffs
- Bottom mounted cast stainless steel relief valve
- Metered bypass to detect leakage or theft of water from the fire sprinkler system

Pressure-Temperature

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

Maximum Working Pressure: 175psi
(12.1 bar)

Models

Suffix:

OSY – UL/FM outside stem and yoke, resilient seated gate valves

BFG – UL/FM grooved gear operated butterfly valves with 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

LFC500, LFC500N, LFC500Z

LEAD FREE

Series LFC500, LFC500N, LFC500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The LFC500, LFC500N, LFC500Z are normally used in health hazard applications to protect against backsiphonage and backpressure. The Series LFC500, LFC500N, LFC500Z are used to monitor unauthorized use of water from the fire protection system. They feature Lead Free* construction to comply with Lead Free* installation requirements.

Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Torsion Spring Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Lead Free* Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Approvals



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

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

Available with grooved NRS gate valves - consult factory**

Post indicator plate and operating nut available - consult factory**

**Consult factory for dimensions

4

Reduced Pressure Detector Assemblies

C500, C500N, C500Z

For Use in Non-Potable Applications

Series C500, C500N, C500Z 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 non-potable service applications such as irrigation, fireline, or industrial processing. The C500, C500N, C500Z are normally used in health hazard applications to protect against back-siphonage and backpressure. They are used to monitor unauthorized use of water from the fire protection system.

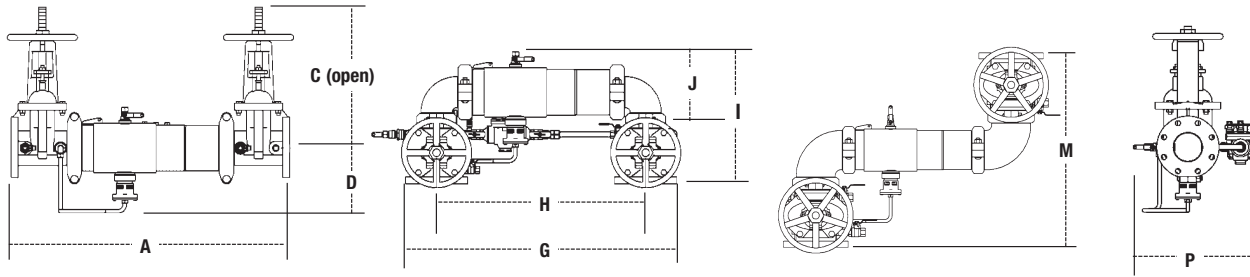
Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Torsion Spring 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

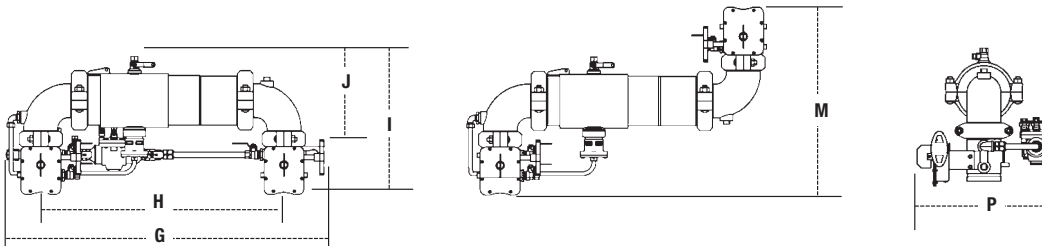


Dimensions — Weights



LFC500, LFC500N, LF500Z & C500, C500N, C500Z

SIZE	DIMENSIONS												WEIGHT									
	A		C (OSY)		D		G		H		I		J		M		P		C500		C500N	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	30¾	781	16⅝	416	6½	165	29⅛	738	21½	546	15½	393	8⅜	223	21¼	540	13⅜	335	142	64	150	68
3	31¾	806	18⅞	479	6⅞	170	30¼	768	22¼	565	17⅞	435	9⅞	233	23	584	14½	368	162	73	175	79
4	33¾	857	22¼	578	7	178	33	838	23½	597	18½	470	9⅝	252	26¼	667	15⅝	386	178	81	201	91
6	43½	1105	30⅞	765	8½	216	44¾	1137	33¼	845	23⅜	589	13⅞	332	32¼	819	19	483	312	142	353	160
8	49¾	1264	37¾	959	9⅞	246	54⅞	1375	40⅞	1019	27⅞	697	15⅞	399	36⅞	937	21⅜	538	497	225	572	259
10	57¾	1467	45¾	1162	11⅞	285	66	1676	49½	1257	32½	826	17⅞	440	44½	1124	24	610	797	362	964	437



LFC500, C500

SIZE	DIMENSIONS						WEIGHT							
	G		H		I		J		M		P		C500BFG	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	32½	826	23	584	15½	394	9½	241	19¼	502	15⅞	402	81	37
3	34	864	24	610	16⅞	414	10⅞	256	21¼	540	16⅞	410	84	38
4	35⅞	905	25½	648	17⅞	437	10⅝	279	23½	597	16⅞	422	101	46
6	46½	1181	35¼	895	20½	521	13½	343	27¼	692	19	483	174	79

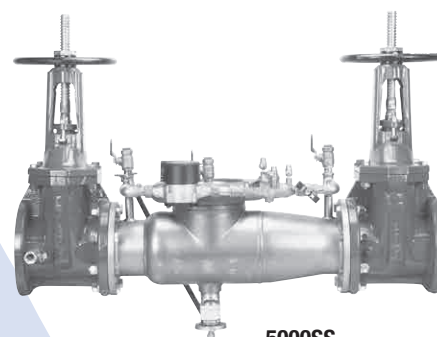
IMPORTANT: Inquire with governing authorities for local installation requirements

SilverBullet™ Series 5000SS

Reduced Pressure Detector Assemblies

Sizes: 2½" – 6" (65 – 150mm)

The SilverBullet™ Series 5000SS 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 non-potable service applications such as irrigation, fireline, or industrial processing. Used in health hazard applications.



5000SS

Features

- Stainless steel construction provides long term corrosion resistance and maximum strength
- Stainless steel body is light weight reducing installation and shipping costs
- Short end to end dimensions makes retrofit easy
- Bottom mounted relief valve reduces clearance requirements when installed against an outside wall
- Cam-check valves provides maximum flow at low pressure drop
- No special tools required for servicing
- Compact construction allows for smaller enclosures
- Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs
- Detects leaks and unauthorized water use.
- GPM or CFM meter available

Materials

- All Internal Metal Parts: 300 Series stainless steel
 - Main Valve Body: 300 Series stainless steel
 - Check Assembly: Noryl®
- Flange dimension in accordance with AWWA Class D

Pressure — Temperature

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

Maximum Working Pressure: 175psi (12.1 bar)

Approvals



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

Available Models

Suffix:

- LG – without gate valves
- OSY – outside stem and yoke resilient seated gate valves
- CFM – cubic feet per minute meter
- GPM – gallons per minute meter
- LM – less meter

*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*

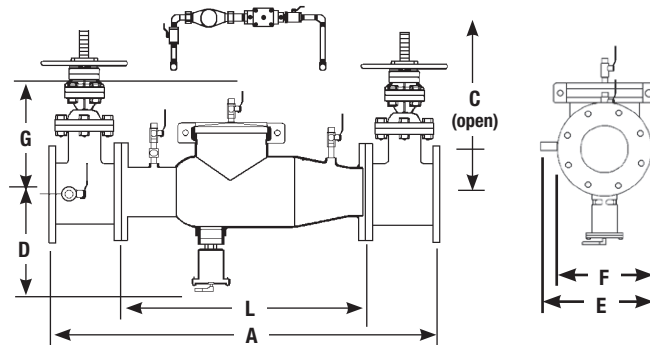
Post indicator plate and operating nut available - consult factory*

*Consult factory for dimensions

NOTICE

The installation of a drain line is recommended. When installing a drain line, an air gap is necessary.

Dimensions — Weights



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

SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHTS							
in.	mm	A		C (OSY)		D		F		G		L		E		with Gates		without Gates	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	37	940	16¾	416	10½	267	7	178	10	254	22	559	12½	318	170	77	61	28
3	80	38	965	18¾	479	10½	267	7½	191	10	254	22	559	13	330	205	93	65	29
4	100	40	1016	22¾	578	10½	267	9	229	10	254	22	559	14½	368	270	122	67	30
6	150	48½	1232	30¾	765	11½	292	11	279	11½	292	27½	699	15½	394	405	184	105	48

Series 1000SS

Detector Check Valves

Sizes: 4" – 10" (100 – 250mm)



1000SS DCV 4", 6"



1000SS DCV 8", 10"

LEAD FREE*

Series 1000SS Detector Check Valves detect any leakage or unauthorized use of water from fire or automatic sprinkler systems. The valve also isolates water from the public water mainline. During times of minimal water flow, the valve clapper remains closed so that the water flows through a bypass meter (optional). When fire flow is required, the water demand will open the clapper to all full water flow.

Features

- Lightest weight in the industry
- Designed to meet NSF standards
- Check assemblies are based on popular modular design that has been proved in field use for over 15 years
- Lifting rings standard on 8" & 10" (200 & 250mm) devices for ease of installation
- No special tools required for servicing
- Optional bypass assembly available
- Approved for mounting in horizontal/vertical positions
- Custom tap sizes available upon request
- Non-corrosive stainless steel construction

Available Models

Standard units come without bypass assembly.

For models with bypass specify Suffix:

- CFM - cubic feet per minute meter
- GPM - gallons per minute meter
- LM - without meter

Materials

Body: 300 Series stainless steel

Knuckle Joint Assembly: Stainless steel linkage

Cam-Check Assembly: Stainless steel linkage

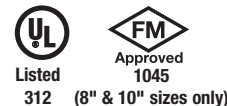
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Pressure – Temperature

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

Maximum Working Pressure: 175psi (12.1 bar)

Approvals

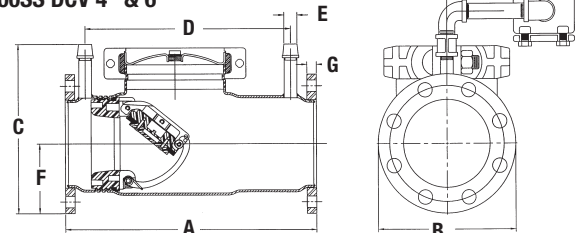


Flange bolt pattern and hole diameter in accordance with ANSI B16.5 Class 125/AWWA C207 Class D

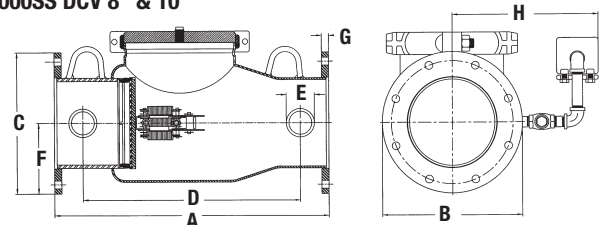
Body nameplate provides nominal size, direction of flow, PSI rating, year of manufacture and approval marks

Dimensions – Weights

1000SS DCV 4" & 6"



1000SS DCV 8" & 10"



SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT									
in.	mm	A		B		C		D		E		F		G		H		Less Bypass		w/Bypass	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
4	100	16½	419	9	229	11½	292	12⅞	327	½ NPT	13	4½	114	⅝	16	8	203	30	14	35	16
6	150	22½	559	11	279	13½	343	17	432	¾ NPT	19	5½	140	1⅛	17	10½	267	65	29	70	32
8	200	26½	665	13½	343	15½	394	21¼	540	2 NPT	51	6¾	171	1⅛	17	12¼	311	143	65	153	69
10	250	36	914	16	406	17½	445	28¼	718	2 NPT	51	8	203	1⅛	17	14½	368	163	74	173	78

IMPORTANT: Inquire with governing authorities for local installation requirements

For additional information, request literature ES-A-1000SS Flow Charts on p. 52

Series 1000DCV, 1005DCV, 1010DCV

Detector Check Valves

Sizes: 4" – 10" (100 – 250mm)

Series 1000DCV Detector Check Valves detect any leakage or unauthorized use of water from fire or automatic sprinkler systems. Series 1000DCV, 1005DCV, 1010DCV are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. During times of minimal water flow, the valve clapper remains closed so that the water flows through a bypass meter (optional). When fire flow is required, the water demand will open the clapper to allow full water flow.

Features

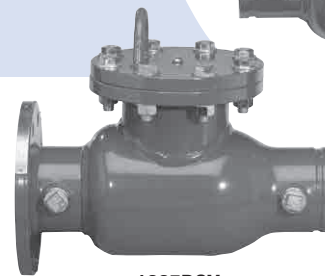
- Fabricated steel body provides a much lighter weight unit than cast steel or ductile iron
- Approved for mounting in horizontal or vertical positions
- Prevents backflow from fire prevention systems
- Used to isolate fire systems from public main during pumper boost of fire system
- Ames-Guard™ epoxy coating is rust resistant and impervious to most chemicals



1000DCV



1010DCV



1005DCV

Available Models

Standard units come without bypass

1000DCV – 4"-10" (100-250mm) 125# flanged end connections

1005DCV – 4"-6" (100-150mm) 125# flanged x grooved end connections

1010DCV – 4"-6" (100-150mm) grooved x grooved end connections

For models with bypass specify suffix:

CFM - cubic feet per minute meter

GPM - gallons per minute meter

LM - without meter

Approvals

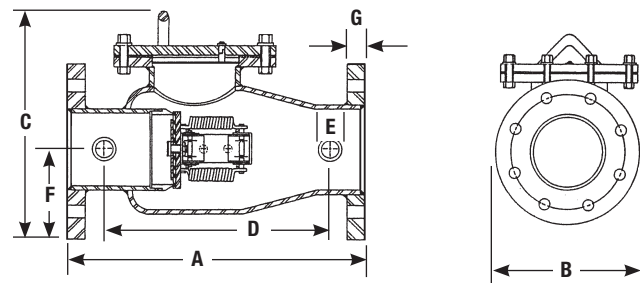


Flange bolt pattern and hole diameter in accordance with ANSI B16.5 Class 125/AWWA C207 Class D

Body nameplate provides nominal size, direction of flow, PSI rating, year of manufacture and approval marks

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

Dimensions – Weights



Materials

Body: Fabricated steel

Knuckle Joint Assembly: Stainless steel linkage

Seat: Bronze ASTM B63-82

Pressure – Temperature

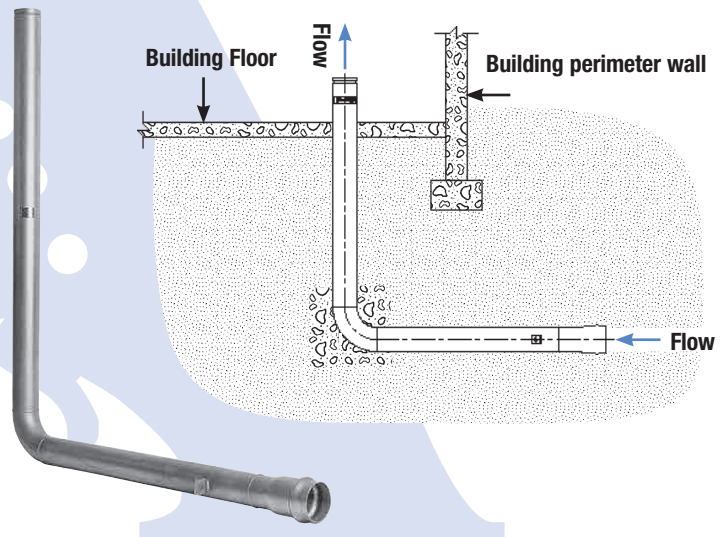
Temperature Range: 33°F – 110°F (0.5°C – 43°C)

Rated Working Pressure: 175psi (12.1 bar)

SIZE (DN)		DIMENSIONS (APPROX.)								WEIGHT							
in.	mm	A		B		C		D		E		F		G			
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
4	100	16½	419	9	229	12½	318	12⅞	308	1 NPT	25	4½	114	⅝	16	60	27
6	150	22½	559	11	279	15⅞	384	17	432	1½ NPT	38	5½	140	11/16	17	96	74
8	200	26½	665	13½	343	17¾	450	21	533	2 NPT	51	6¾	171	11/16	17	154	70
10	250	36	914	16	406	21	533	28	711	2 NPT	51	8	203	11/16	17	179	81

Consult factory for 1005DCV and 1010DCV dimensions.

In-Building Riser



LEAD FREE* The In-Building Riser is used to connect the main fire supply to the building overhead fire system. The fitting passes under the foundation without joints and extends up through the floor. Provided with installation tabs, the unit has a CIPS (Cast Iron Pipe Size) coupler for easy connection to the underground supply (AWWA C900 PVC) and (Ductile Iron Pipe) an industry standard grooved-end connection (AWWA C606) on the building side for easy connection to the overhead fire sprinkler system.

Features

- Cost savings
- Corrosion resistant stainless steel construction, type 304
- Ease of installation and lightweight allows one person to position and handle the riser
- Minimal site preparation; joint restraint one-piece-construction reduces time and labor; no missing parts, no leaks; easily identifiable for approvals
- Includes test cap and coupler
- UL/FM approved
- Sizes: available in 4" – 10" with various lengths to meet local requirements
- Designed to meet NFPA 24 Section 8-3.2
- AWWA C900 Inlet/DIP
- AWWA C606 Outlet

Standards

NFPA — Designed to allow the contractor to conform to NFPA 24 Section 8-3.2:

Where a riser is close to building foundations, underground fittings of proper design and type shall be used to avoid pipe joints being located under the foundations.

NFPA — 24, 7.1.1.8-3.4

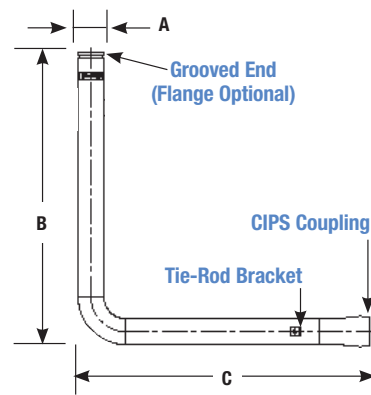
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Approvals

Fittings FM Class 1920
UL HKQA (4" - 10")



Dimensions – Weights



SIZE		A (OD)		B		C		WEIGHT	
in.	mm	in.	mm	ft.	mtr.	ft.	mtr.	lbs.	kgs.
4	100	4½	114	6	1.8	6	1.8	71	32
6	150	6⅝	168	6	1.8	6	1.8	98	44
8	200	8⅝	219	6	1.8	6	1.8	129	59
10	250	10¾	273	6	1.8	6	1.8	202	92

Consult factory for custom leg dimensions

IMPORTANT: Inquire with governing authorities for local installation requirements

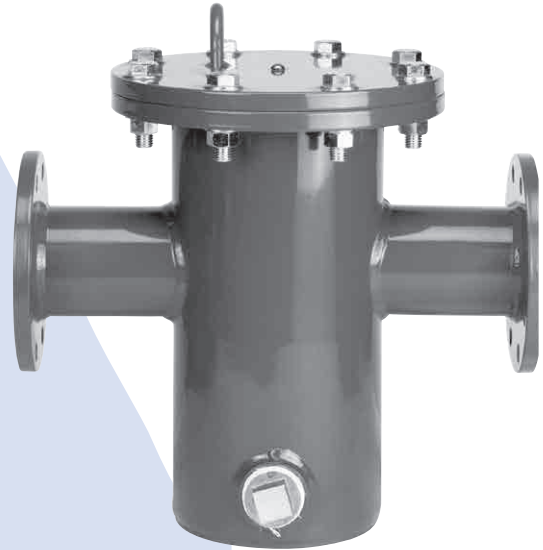
For additional information, request literature S-A-InBuildingRiser.

Series 7001, 7002

UL/FM Fire Service Strainers

Sizes: 3" – 10" (80 – 250mm)

Series 7001, 7002 UL/FM Fire Service Strainers are used in non-potable applications in conjunction with a water spray system to protect the system against clogging that can be caused by particles fouling the small discharge opening of the sprinkler heads. Strainers for fire systems are designed to trap foreign material $\frac{1}{8}$ " diameter or larger. This type of strainer is usually installed upstream of most of the devices in the system including the meters, backflow preventers (or detector check valves) and flow alarms, in order to protect these devices from damage caused by large particles.



7001-One cleanout
7002-Two cleanouts

Features

- Epoxy coated fabricated steel strainer, flange x flange, groove x groove or groove x flange with multiple cleanouts
- Large solids trap to minimize screen blockage
- 304 stainless steel strainer element

For additional information, request literature [ES-A-7001/7002](#)

Series 8000F, 8000G

Stainless Steel Flanged and Grooved Strainers

Sizes: 2½" – 12" (65 – 300mm)

LEAD FREE*

Series 8000F, 8000G Stainless Steel Strainers are lightweight, fabricated wye-pattern strainers designed to remove dirt and other debris from fluid systems. A simple cover and coupling permits easy removal of dirt from the strainer's stainless steel screen, or replacement of the screen. The 8000F and 8000G feature Lead Free* construction to comply with Lead Free* installation requirements.

Features

- 304 stainless steel body exhibits superior corrosion resistance compared to cast iron; eliminates casting porosity problems, complies with NSF 61 and FDA requirements.
- 50% lighter than cast iron valves, reducing handling and installation equipment costs.
- Lead Free* construction
- Single, two-bolt, grooved style cover provides quick and easy access, saving disassembly/assembly time.
- Screen retainer cover is tapped for strainer clean out by opening a blow-off valve, or the standardly furnished closure plug.

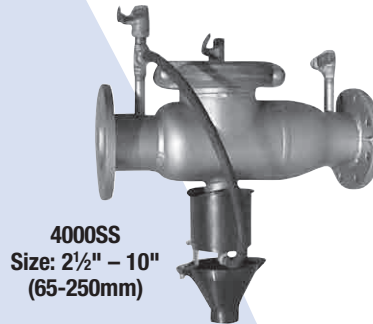
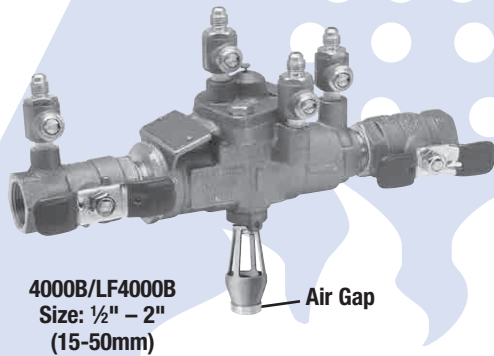
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



8000F
(Flanged)

8000G
(Grooved)

Air Gaps & Vent Elbows

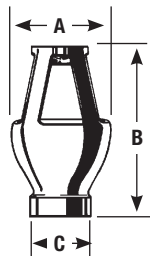


Air Gaps

The Ames Air Gap Drain is designed to collect water that is being discharged by the relief valve, due to minor check valve fouling and/or to line pressure fluctuations.

NOTICE

The Air Gap Drain is not designed to collect the full discharge capacity of the relief valve.



Vent Elbows

Used with Ames air gaps for vertical installation of reduced pressure zone assemblies.



ORDERING CODE	SIZES/SERIES	DIMENSIONS			WEIGHT	
		A in. mm	B in. mm	C in. mm	lbs	kgs
7014267	1/2", 3/4" 4000B/LF4000B	2 3/8 60	3 1/8 79	1/2 13	.63	.28
0691853	1", 1 1/4", 1 1/2" 4000B/LF4000B	3 1/4 83	4 7/8 124	1 25	1.50	.68
0691866	2" 4000B/LF4000B	4 3/8 111	6 3/4 171	2 51	3.25	1.47
0691842	2 1/2" - 10" 4000SS/5000SS	8 203	11 1/4 286	2 51	1.50	0.68
7014384	3" - 6" 4001/5001	8 203	11 1/4 286	5 3/4 146	1.50	0.68
7017299	4" - 10" 4000CIV	6 3/8 162	9 5/8 244	3 76	6.25	2.83
0690511	2 1/2" - 6" 4000SS vertical	8 203	9 1/4 235	2 3/4 70	10.3	4.67
7011361	4000RP/5000RPDA (epoxy)	10 3/4 273	6 1/4 159	2 5/8 67	6.7	3.04
7018367	2 1/2" - 10" 400/500 w/Splash Guard	7 1/2 190	10 3/16 258	2 51	1.5	.68
7018894	2 1/2" - 10" 400/500 Splash Guard	4 1 1/16 119	2 7/16 62	— —	.5	.23
0064661	3/4" - 1" 400B AG	2 3/8 60	3 1/8 79	1/2 13	0.63	0.28
0064662	1 1/4" - 2" 400B AG	4 3/8 111	8 1/2 216	2 51	3.5	1.6

SIZE / SERIES

Elbow Kits for 4000B/LF4000B

Available for sizes 1/2" - 2"

Stainless Steel Elbow Kits for N and Z pattern valves

Available for sizes 3", 4", 6", 8"

Kits consist of: (2) Elbows, Nut, Bolts, Gaskets and Ring gaskets.

Cast Iron Elbow Kits - for N pattern Colt & Maxim Series 200 & 300

Available for sizes 2 1/2", 3", 4", 6", 8", 10" **

**Kits not available for Butterfly valve units

Kits consist of: (2) grv x grv elbows and (2) Groove Couplers

Cast Iron Elbow Kits - for N and Z pattern Colt & Maxim Series 400 & 500

Available for sizes 2 1/2", 3", 4", 6", 8", 10" **

**Kits not available for Butterfly Valve units

Kits consist of: (2) grv x grv elbows and (2) Groove Couplers

IMPORTANT: Inquire with governing authorities for local installation requirements

For additional information, request literature ES-A-AG/EL/TC.

Test Cocks, Caps & Tethers

Cap & Tethers

Plastic cap and tether

(four required per backflow preventer)

- Fits 1/4" female test cocks
- Plastic dust cap and rubber tether
- ARK-TC/Ames - 1/8" - 1/4" (7017626)

SAE Brass Cap, O-ring and tether

(four required per backflow preventer)

- Fits 1/8" male x SAE test cocks
- Brass dust cap with O-ring seal and rubber tether
- ARK-SAE-TC/Ames (7017249)



Test Cocks

For use with backflow preventers, isolation valve for gauges, isolation valves for small equipment lines. Lead Free* models available.

TC/Ames

- Full port ball valve design
- Screw driver slot to open and close
- Available 1/8" male x 1/4" female - 1/8 TC/Ames (7017250) or 1/4" male x 1/4" female - 1/4" LFTC/TC/Ames (0425363)



SAE-TC/Ames

- Full port ball valve design
- Screwdriver slot operation
- Available 1/8" male x SAE - LFSAE TC/Ames (0425362)



SAE-TC Adapter/Ames

- 1/4" female SAE x 7/16" FPT
- Adapts to SAE-TC for use with pressure gauges or site tube
- SAE-TC Adapter/Ames (7017627)



1/2" TC Kit for Ames Colt/Maxim Series

- Fits 2 1/2"-4" Colt/Maxim Series
- Ordering Code: (7018394)-not shown

3/4" TC Kit for Ames Colt/Maxim Series

- Fits 6"-10" Colt/Maxim Series
- Ordering Code: (7018395)-not shown



Test Kit Model ATG-1

Backflow Preventer Test Kit

The Ames ATG-1 Backflow Preventer Test Kit is a compact portable testing device made for testing all Reduced Pressure Zone Backflow Prevention Assemblies and Double Check Valve Assemblies. The ATG-1 is easily connected to any RPZ device enabling accurate testing of 'zone' differential pressure, relief valve opening differential, fouled check valves or similar problems that visual inspections cannot locate. The unit is supplied with a rugged carrying case for easy handling and accessibility.

Specifications

- Maximum Working Pressure – 175psi (12.1 bar)
- Maximum Working Temperature – 210°F (99°C)
- Gauge – 4 1/2" diameter face dual scale
0 – 15psid and 0 – 1kg/cm², ±2% accuracy full scale
- Test Valves – (2) ball valves and (1) needle valve
- Hoses – (3) 3' with female threaded swivel couplings
- Adaptors – (3) 1/4" threaded coupling adaptors
(3) 1/2" x 1/4" bushings
(3) 3/4" x 1/4" bushings
- 1 – 16" securing strap
- 1 – Moisture resistant instruction guide
- Case – lightweight, shock resistant molded plastic with foam inserts



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



For Retrofitting Backflow Preventers

Spools

LEAD FREE* Ames has created “Make up” Spools for use when retrofitting a backflow preventer into the longer lay length of an existing assembly. Ames spools are available in lightweight 300 series stainless steel or epoxy coated carbon steel and come standard with AWWA 150# class “D” carbon steel flanges. 150# class “D” stainless steel flanges available upon special request. The Ames spools feature Lead Free* construction to comply with Lead Free* installation requirements.

Ames “Make Up” Flanges are used in piping applications where there is a need for additional fitting lay length. Ames flanges are available in AWWA 150# modified class “D” Zinc plated Carbon Steel Flanges with standard bolt pattern. 150# modified class “D” Zinc Plated Carbon Steel Flanges with standard pattern slotted. 150# modified class “D” Stainless Steel Flanges with standard bolt pattern.

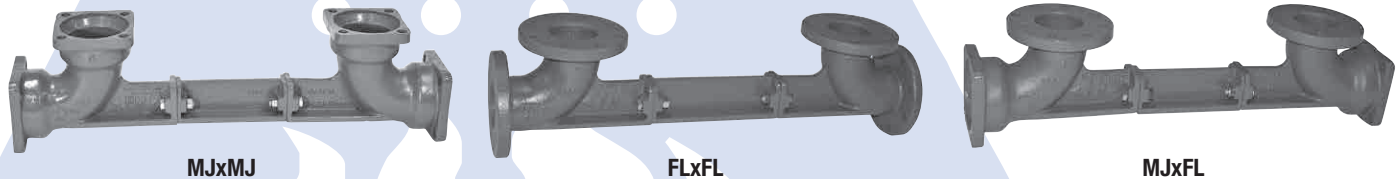
Contact factory for specific applications.

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

Valve Setters AVS

Valve Setter Assemblies

Sizes: 3" – 10" (75 – 250mm)



LEAD FREE*

The Ames Series AVS valve setters are designed to augment the installation of the "N" series backflow prevention valves.

The Series AVS are available in three connection options, Flange by Flange, Mechanical Joint by Flange, and Mechanical Joint by Mechanical Joint. They are constructed of fusion epoxy coated ductile iron. Integral ductile iron support between elbows transfers thrust downstream, thus eliminating thrust block requirements between elbows. Mechanical joint restraint devices may be used at the pipe connections, depending on local conditions.

Features

- Corrosion resistant fusion epoxy coated
- Eliminates the need for thrust blocks or other restraints at the point of installation
- Flanges: ANSI B16.1 Class 125 (Standard)
ANSI AWWA C153 A21.53-88

Materials

Body: Ductile iron A536 GR 65-45-12

Coating: Fusion epoxy coated internal and external AWWA C550

Bolts & Nuts: Stainless steel

Note: Mechanical joint accessories, flange bolts and gaskets are not included (except for center joints).

Pressure – Temperature

Maximum Working Pressure: 175psi (12.1 bar)

Temperature Range: 32°F to 140°F (0°C to 60°C)

Models

FLxFL Flange by Flange

MJxFL Mechanical Joint by Flange

MJxMJ Mechanical Joint by Mechanical Joint

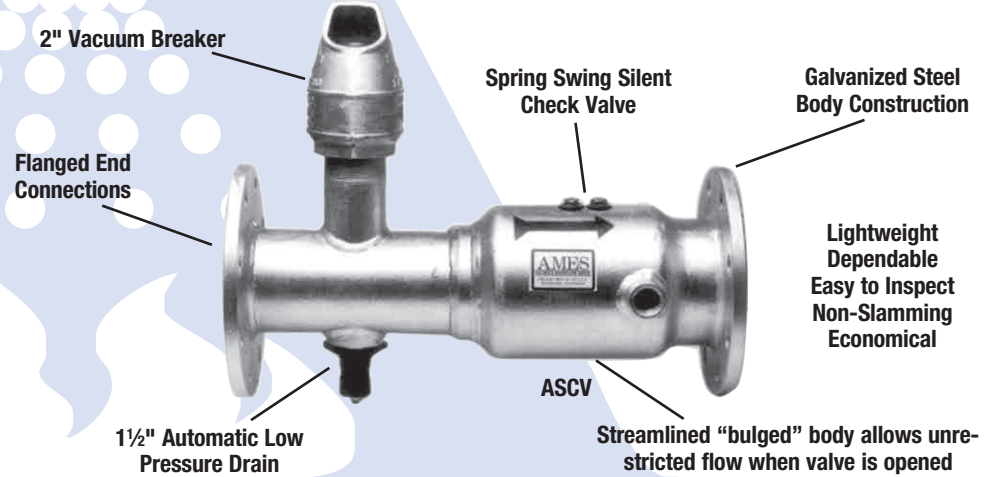
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

IMPORTANT: Inquire with governing authorities for local installation requirements

Series ASCV

Anti-Siphon/Chemigation Check Valve

Sizes: 3" – 12" (80 – 300mm)



Series ASCV Anti-Siphon/Chemigation Check Valve is designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. The spring swing silent check valve is extremely efficient in the prevention of backflow to the water supply. Spring pressure is applied to the clapper causing it to close an instant before reverse flow starts. This instantaneous closure prevents water hammer and backflow into the water supply.

Series ASCV vacuum breaker is installed on the top of the device on inlet side of check valve to provide air release and vacuum relief when flow discontinues. The vacuum breaker features a contoured machined seat for positive closure and large exhaust port and orifice for maximum air release.

Series ASCV automatic low pressure drain is installed on bottom of device on inlet side of the check to provide drainage of any water on the inlet side of check valve. Drain closes at 2.5psi (17.2 kPa).

Features

- Heavy duty galvanized steel body construction
- Prevents water hammer and backflow into the potable water supply (non-potable applications)
- Vacuum breaker provides maximum air release
- Heavy duty cast aluminum vacuum breaker body
- Durable plastic low pressure drain body with positive O-ring seal, impervious to most chemicals

Materials

Valve Body: Galvanized steel

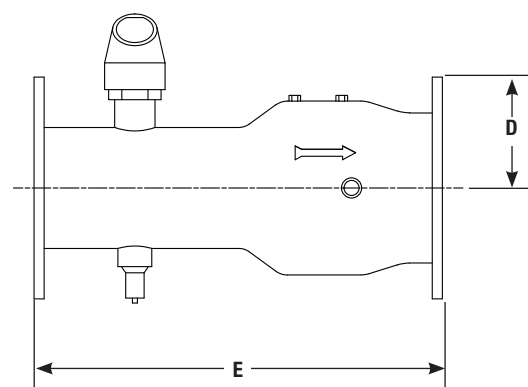
Vacuum Breaker Body: Cast aluminum

Low Pressure Drain: Plastic

Pressure

Maximum Working Pressure: 150psi (10.3 bar)

Dimensions – Weights

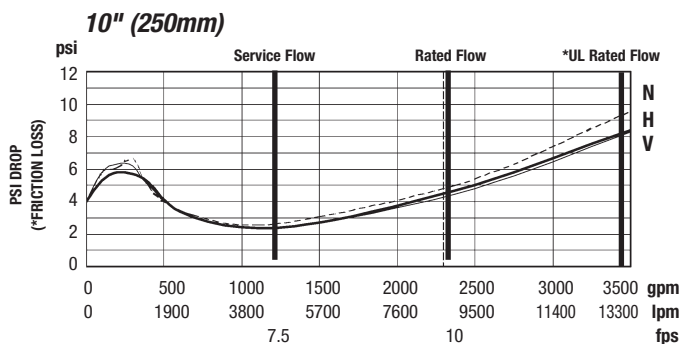
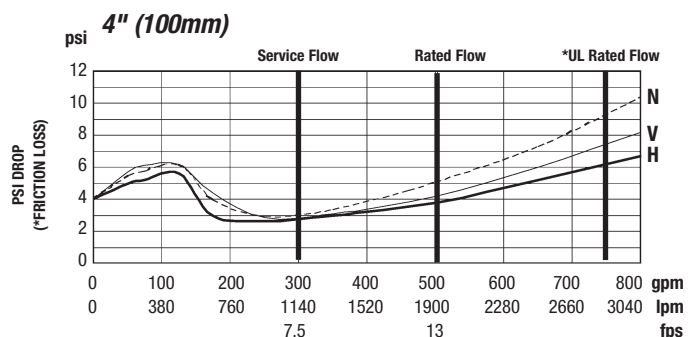
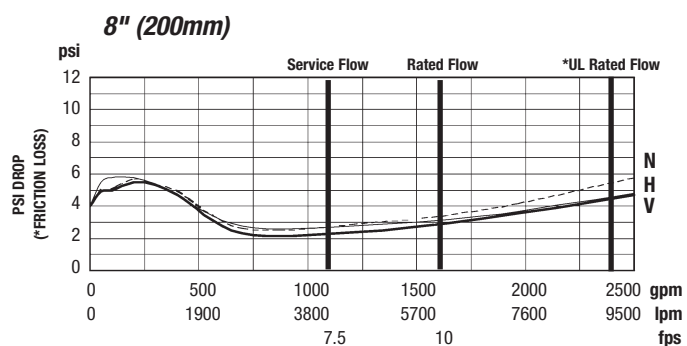
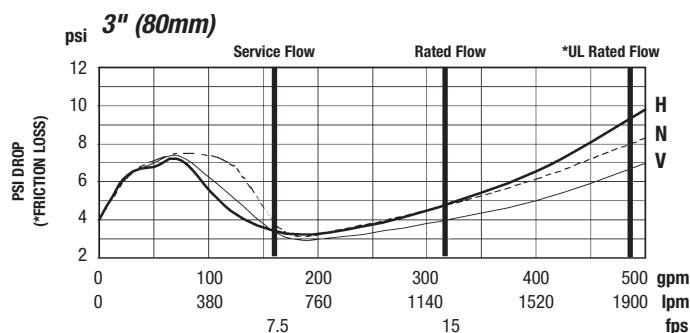
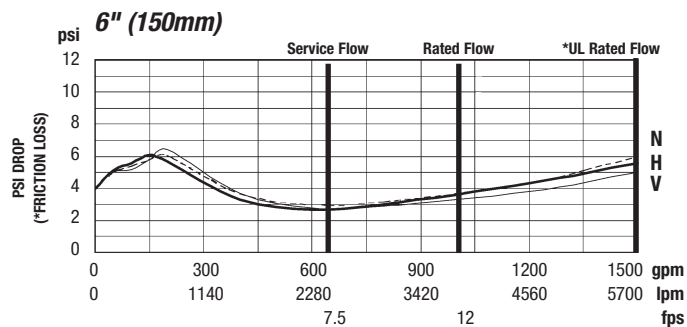
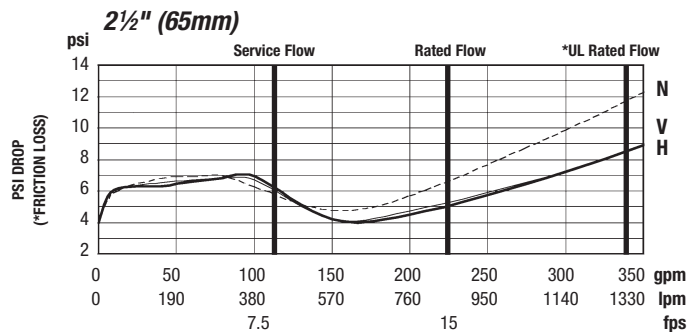


SIZE (DN)		DIMENSIONS (APPROX.)				WEIGHT	
		D		E			
in.	mm	in.	mm	in.	mm	lbs.	kg.
3	80	3/4	95	17	432	20	9
4	100	4 1/2	114	19	483	28	13
6	150	5 1/2	140	20	508	40	18
8	200	6 3/4	171	23	584	60	27
10	250	8	203	25	635	87	39
12	300	9 1/2	241	25	635	110	50

IMPORTANT: Inquire with governing authorities for local installation requirements

For additional information, request literature [ES-A-ASCV](#) Flow Charts on p. 53

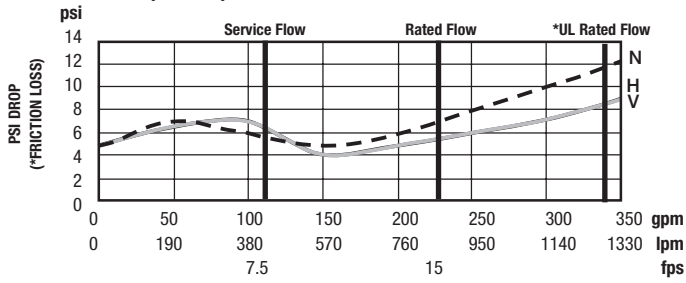
Maxim™ Series M200, M200N



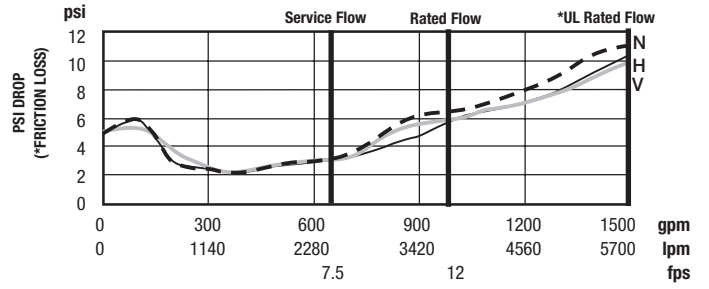
— Horizontal — Vertical - - - - N-Pattern

Colt™ Series C200, C200N

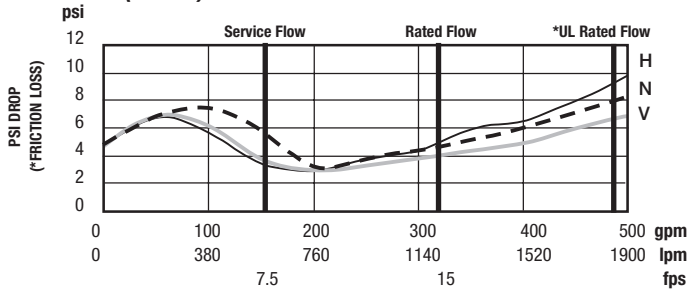
2½" (65mm)



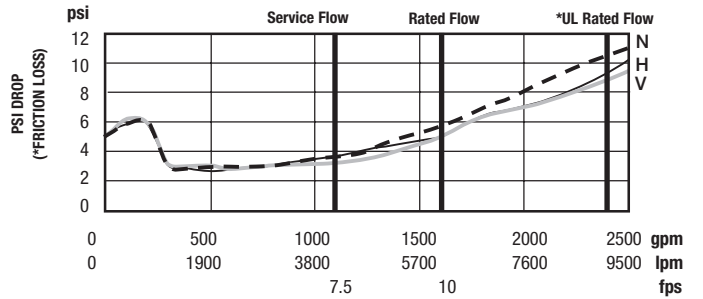
6" (150mm)



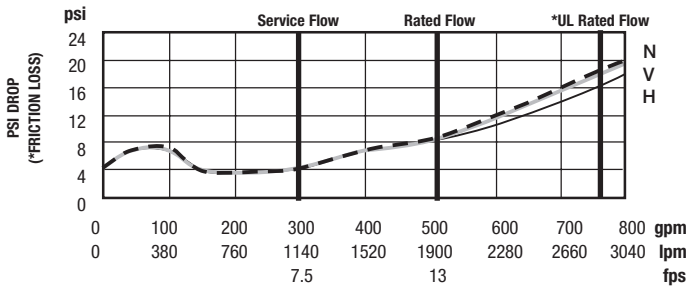
3" (80mm)



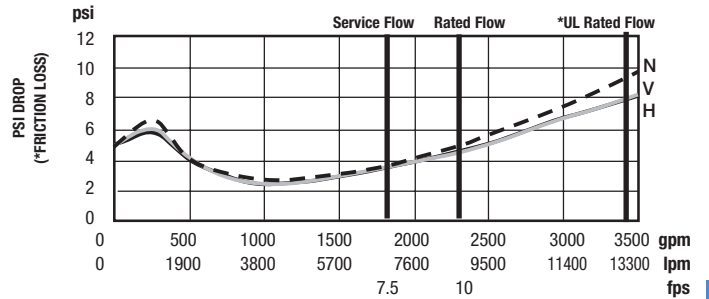
8" (200mm)



4" (100mm)

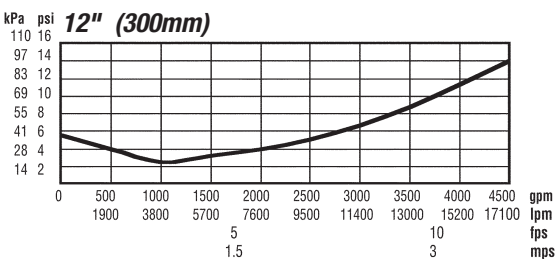
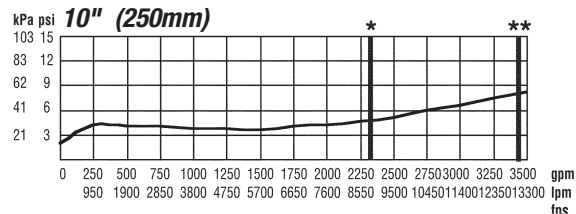
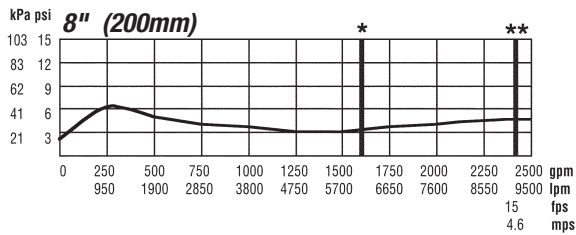
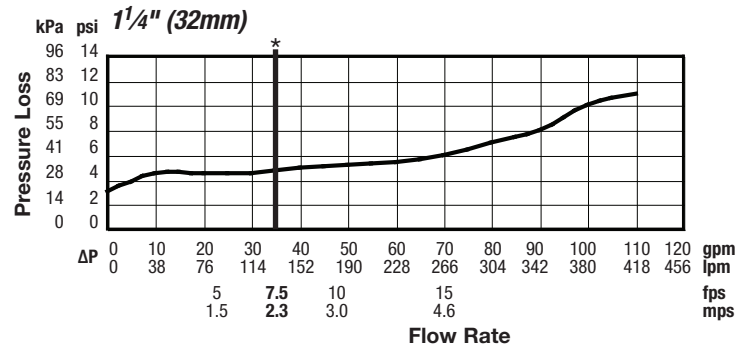
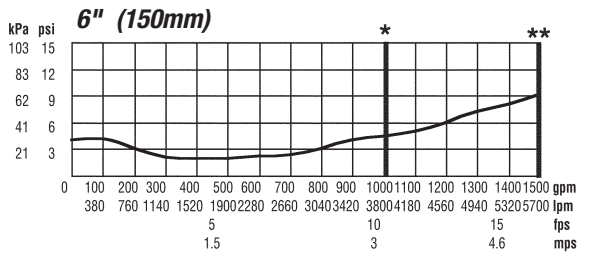
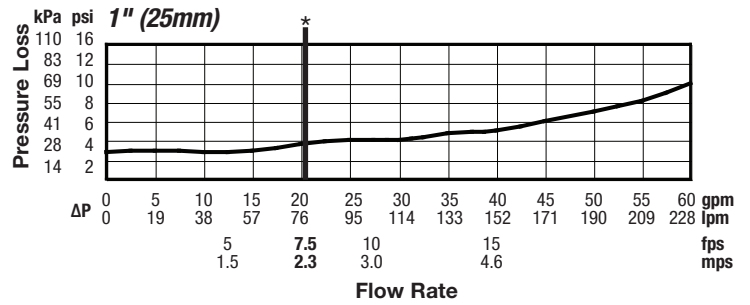
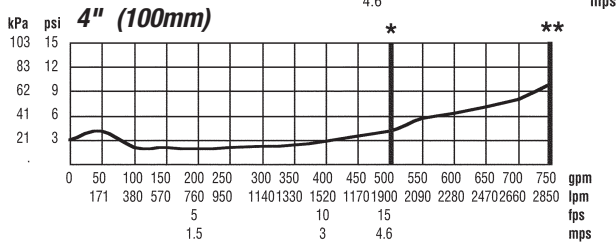
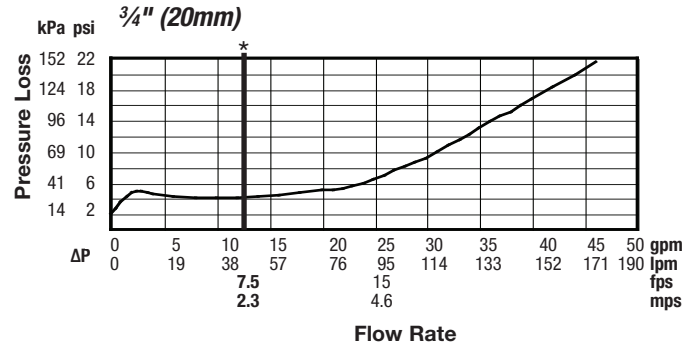
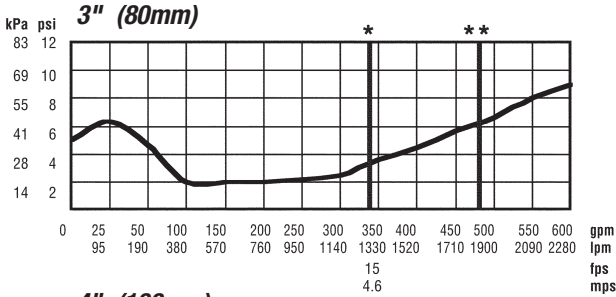
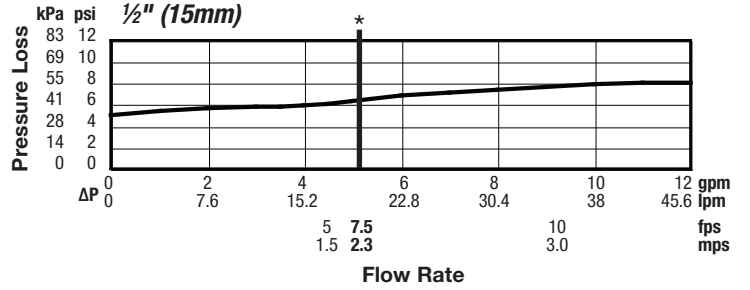
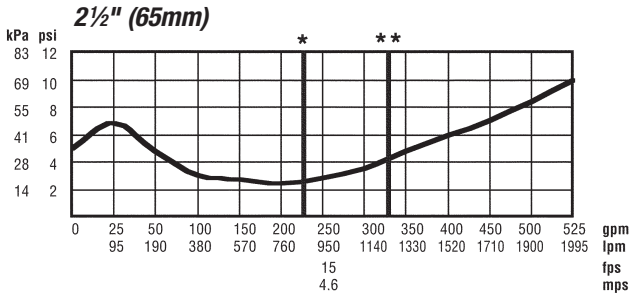


10" (250mm)

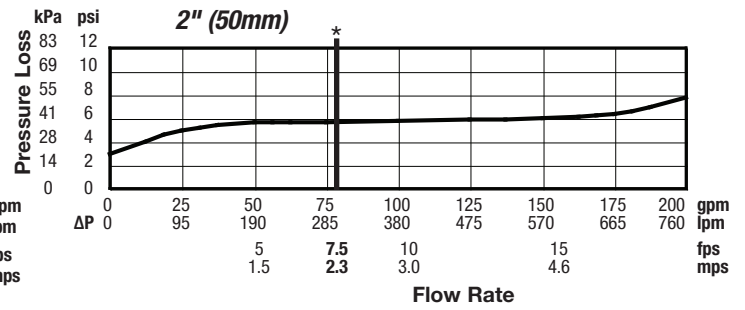
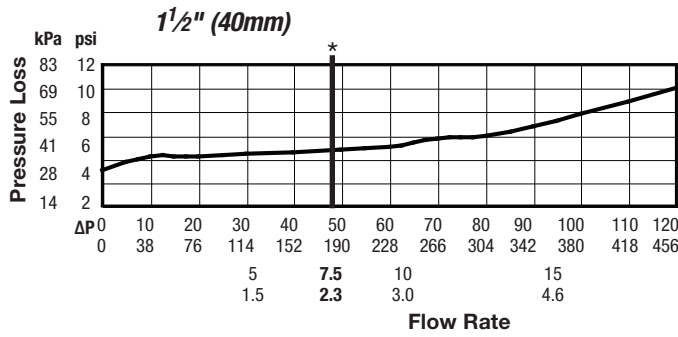


Series 2000SS

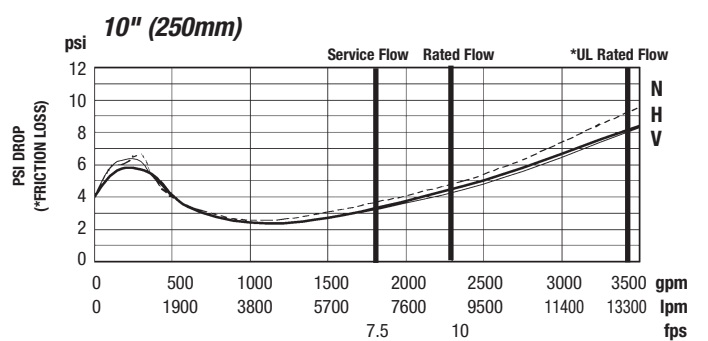
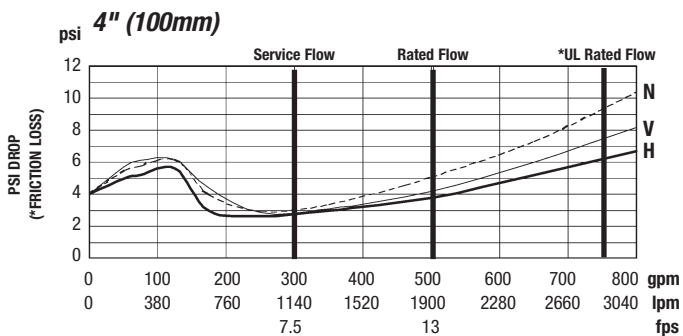
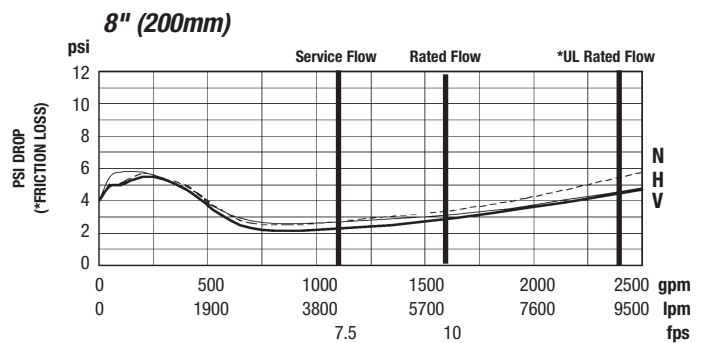
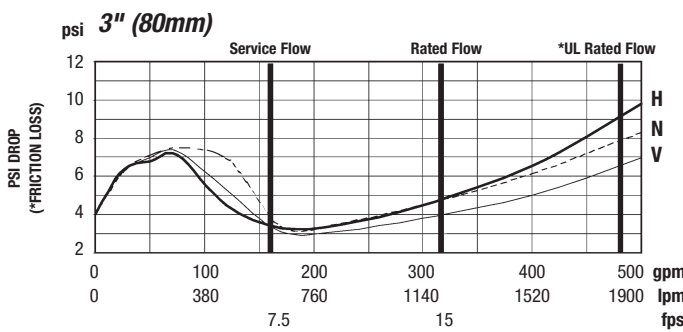
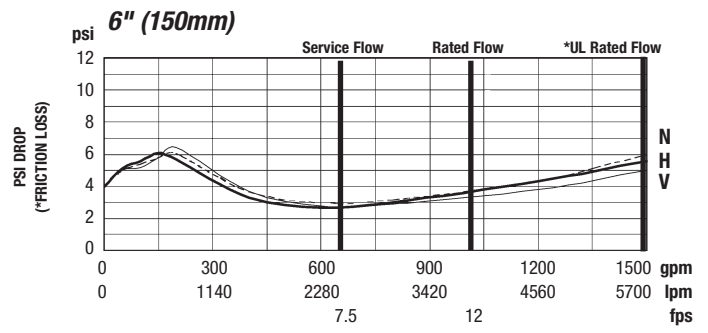
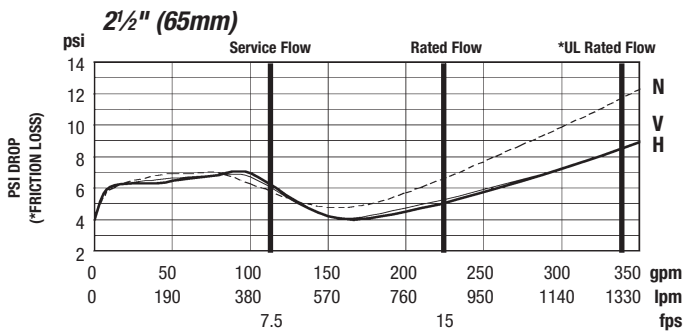
Series LF2000B, 2000B



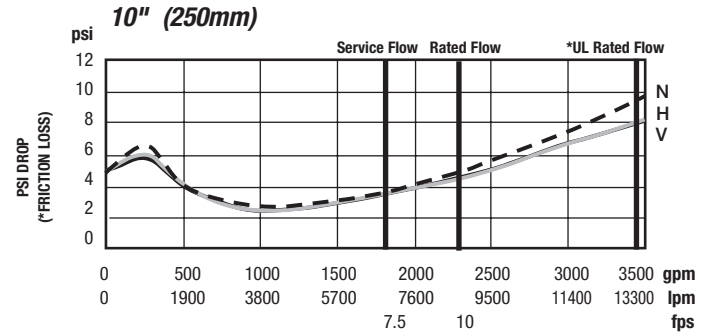
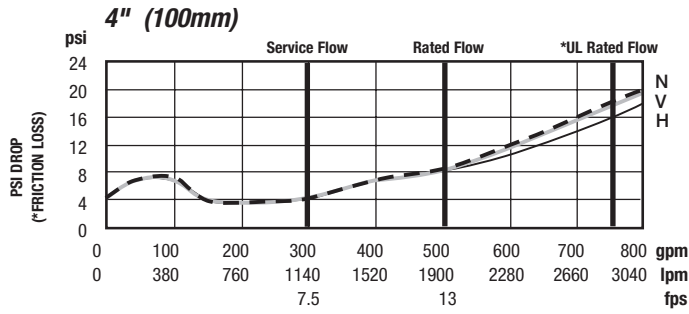
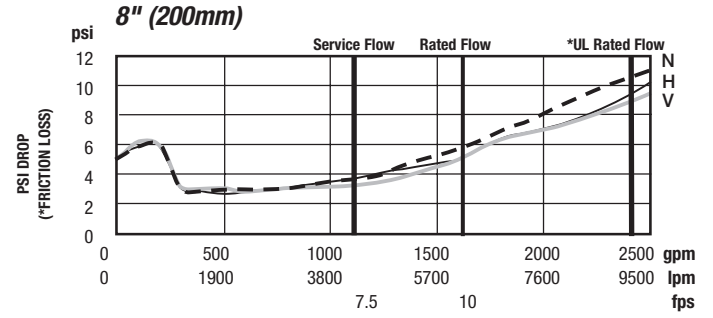
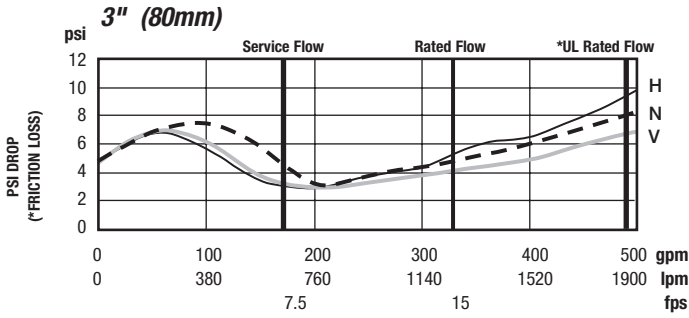
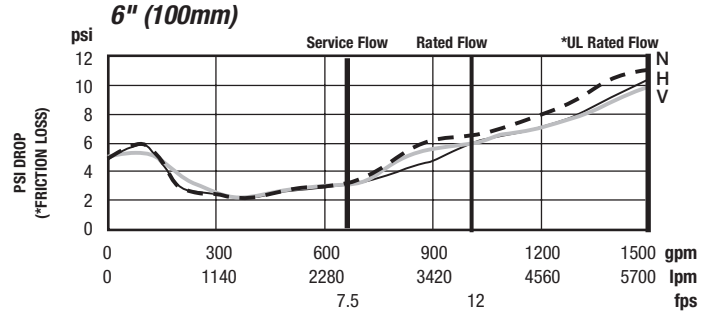
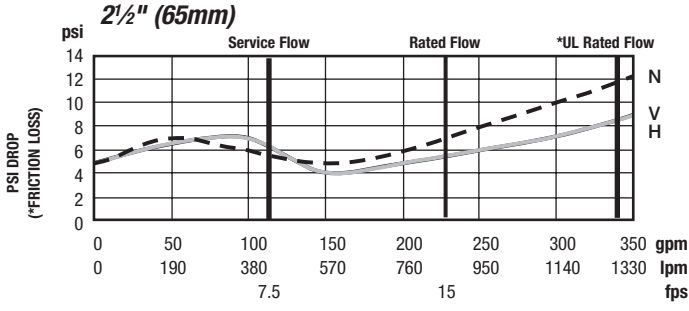
Series LF2000B, 2000B (cont.)



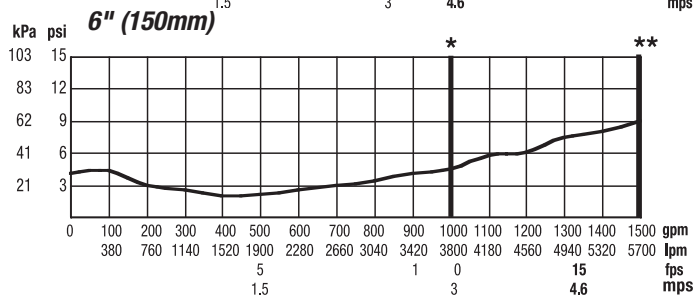
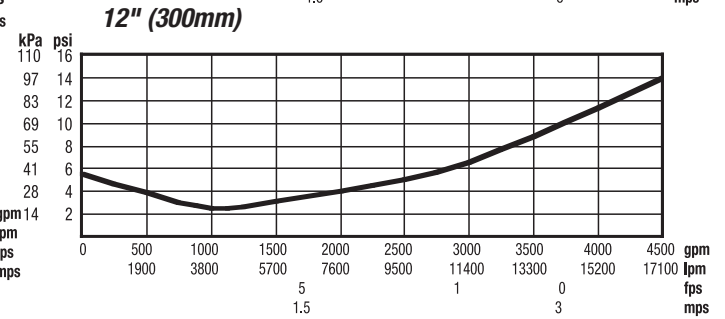
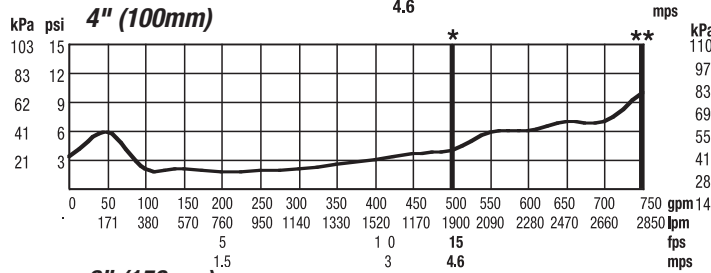
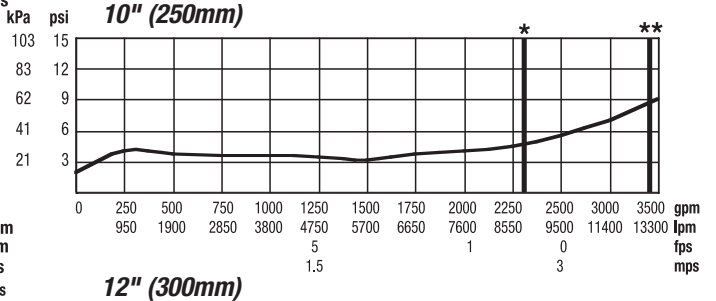
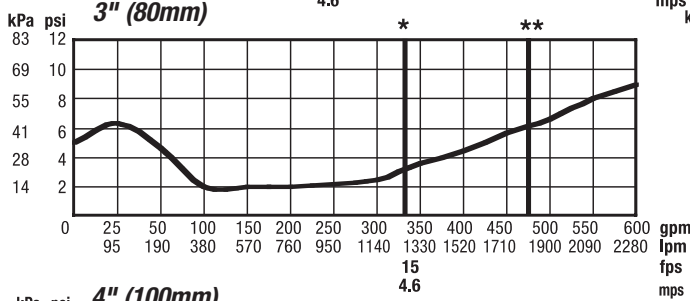
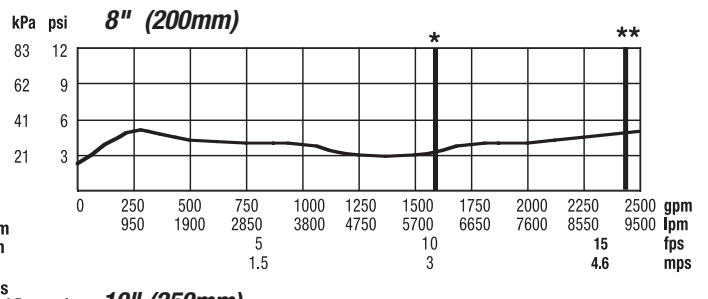
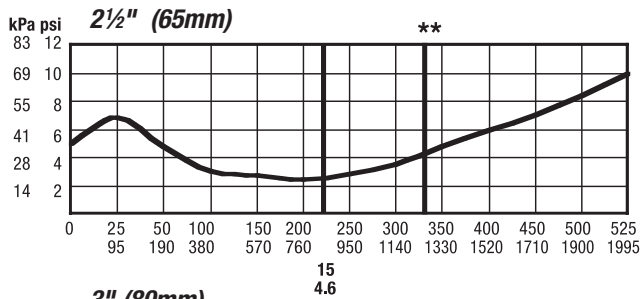
Maxim™ Series LFM300, LF300N, M300, M300N



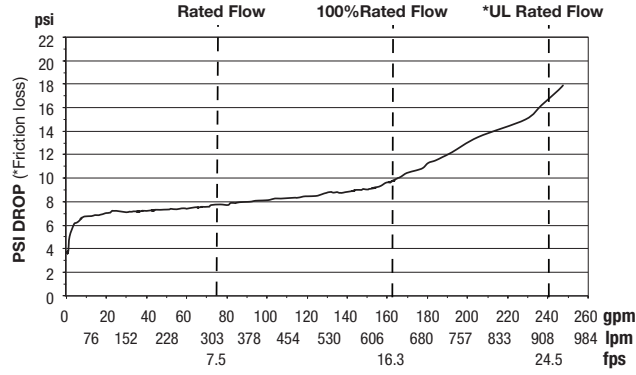
Colt™ Series LFC300, LFC300N, C300, C300N



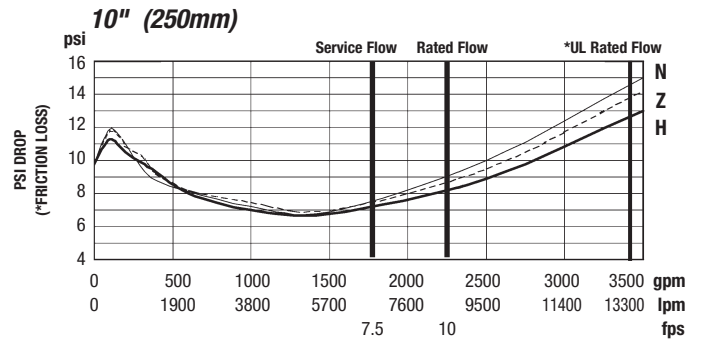
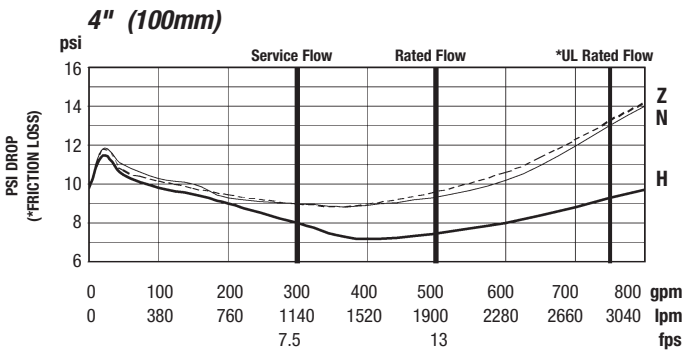
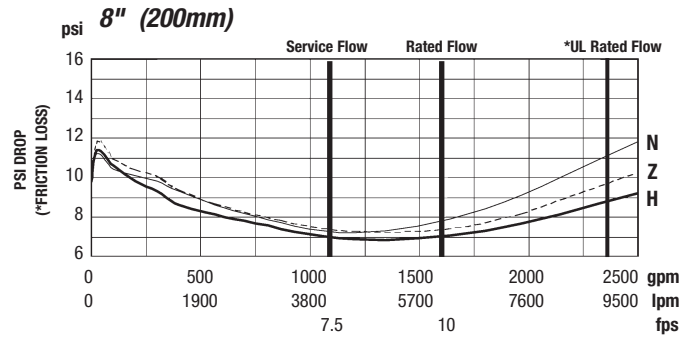
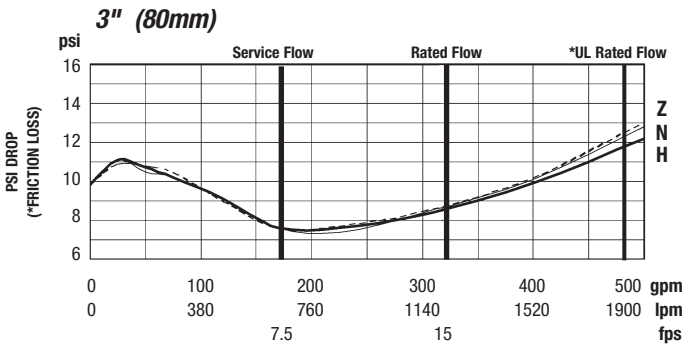
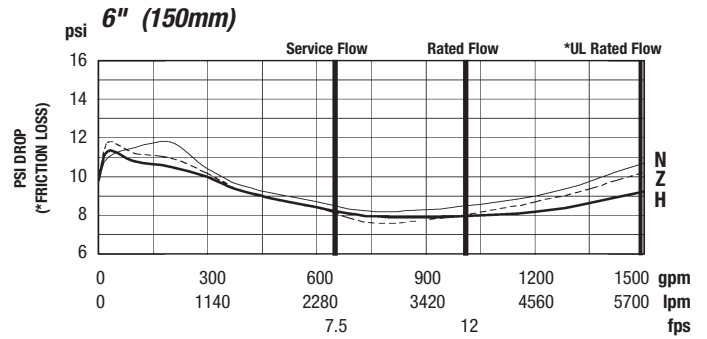
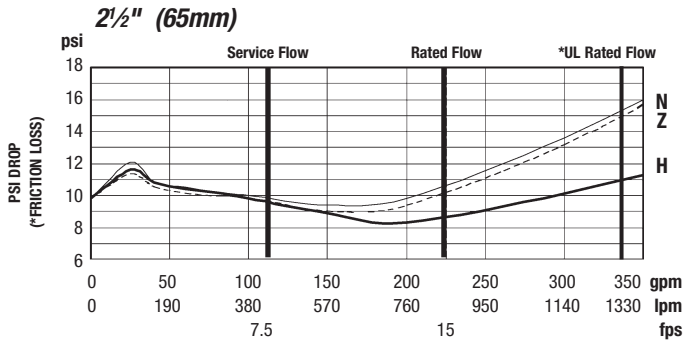
Series 3000SS



Series 3000BMI

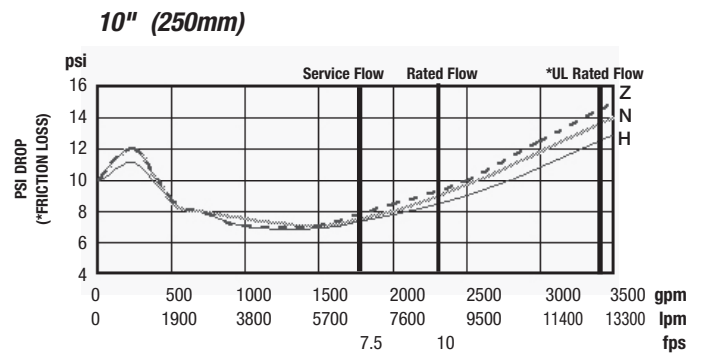
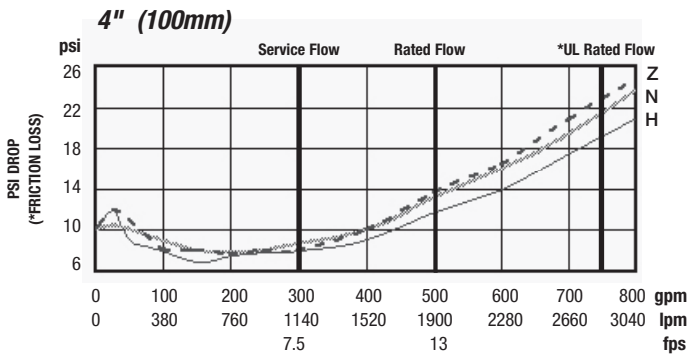
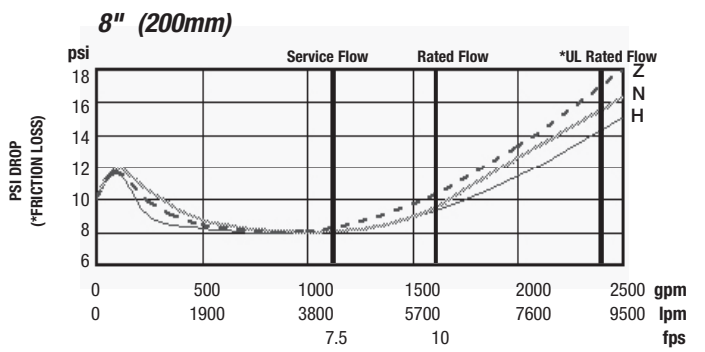
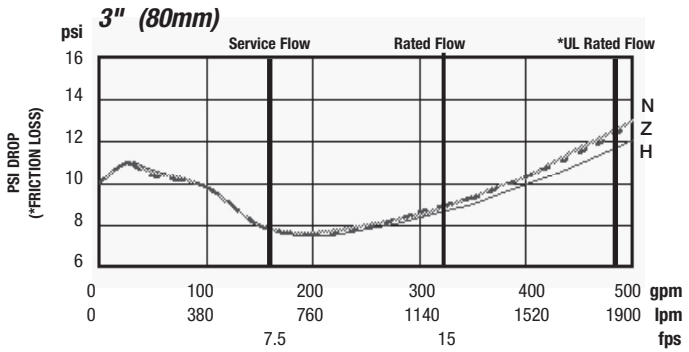
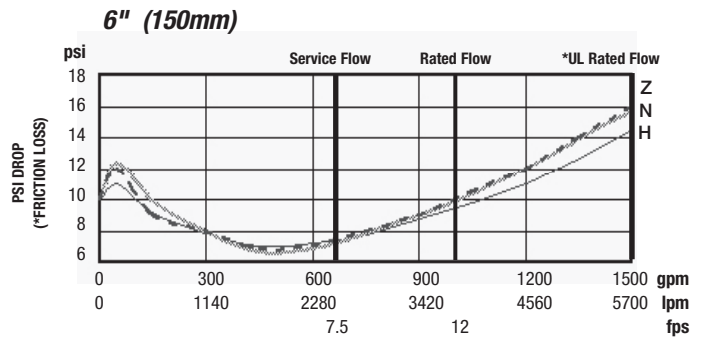
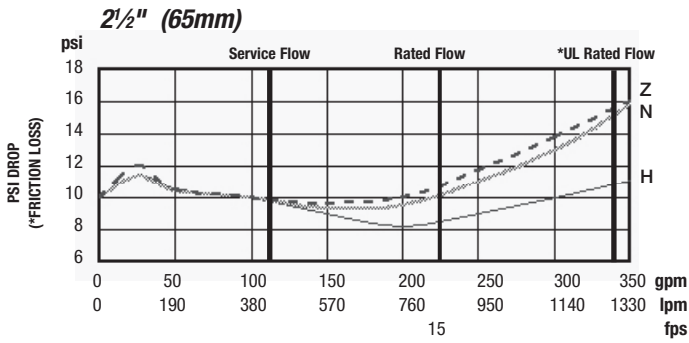


Maxim™ Series M400, M400N, M400Z

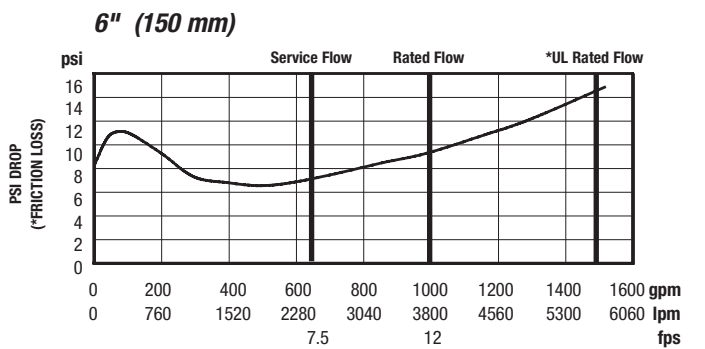
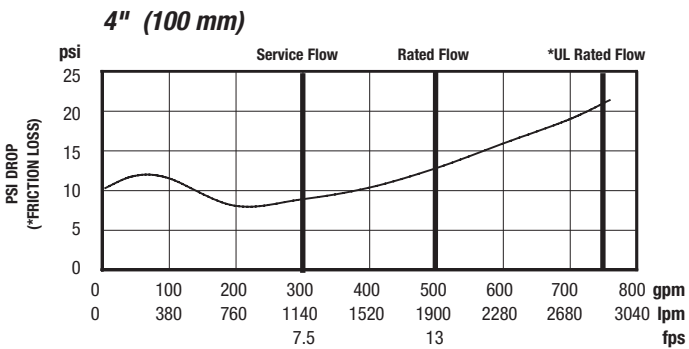


Colt™ Series C400, C400N, C400Z

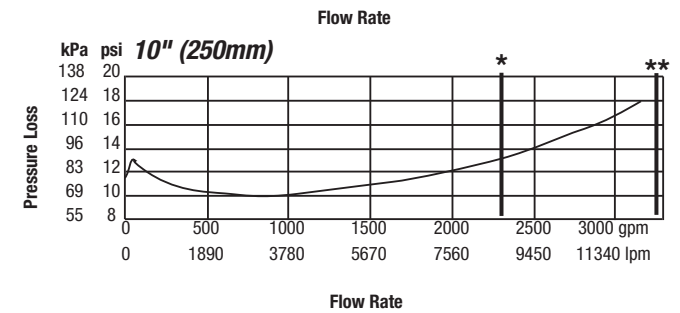
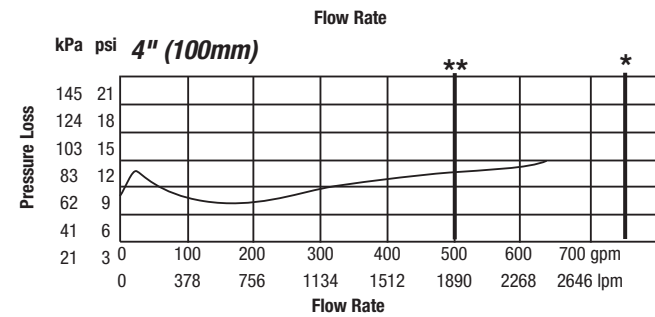
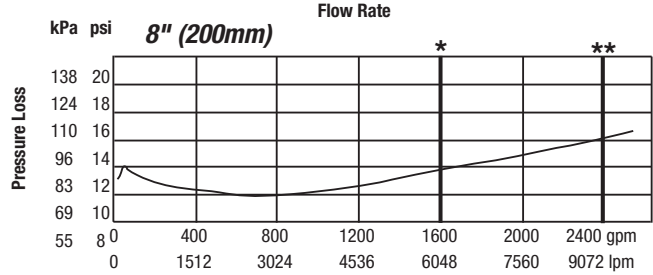
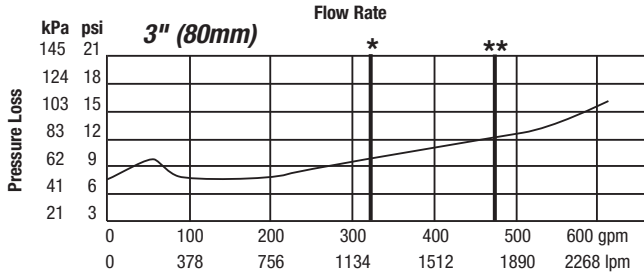
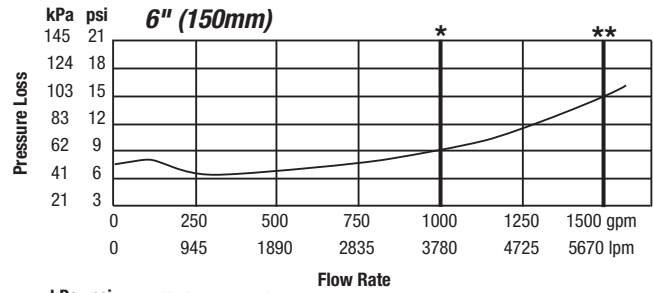
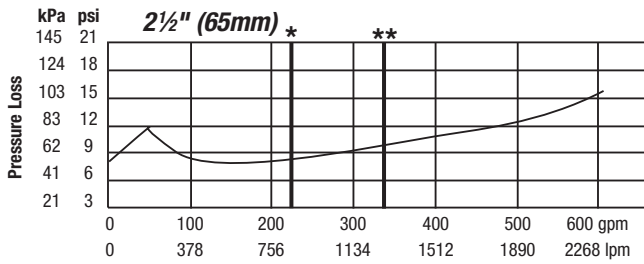
— Horizontal — N - Pattern - - - - Z - Pattern



Colt™ Series C400 BFG - Straight

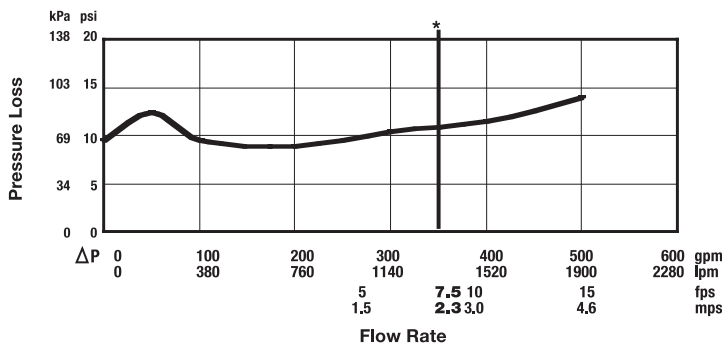


Series 4000SS



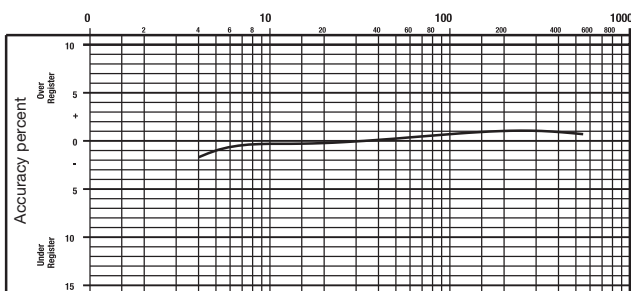
Series 4000BLT, 6000HMB

Series 4000BLT Flow Characteristics



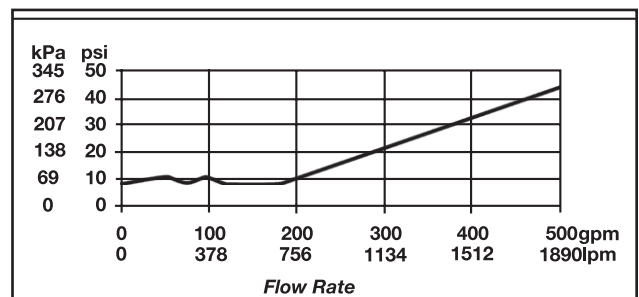
*Approximate headloss at the UL rated flow.

6000HMB Accuracy Chart
Rate of Flow in Gallons per Minute

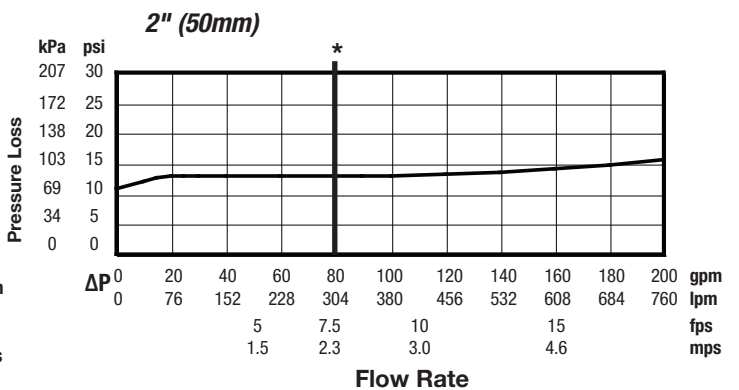
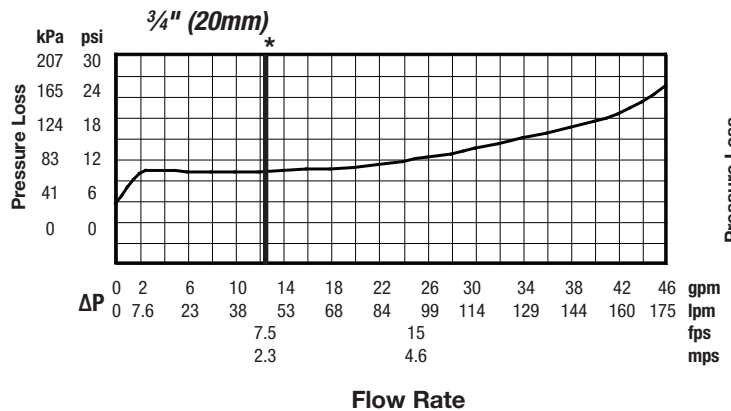
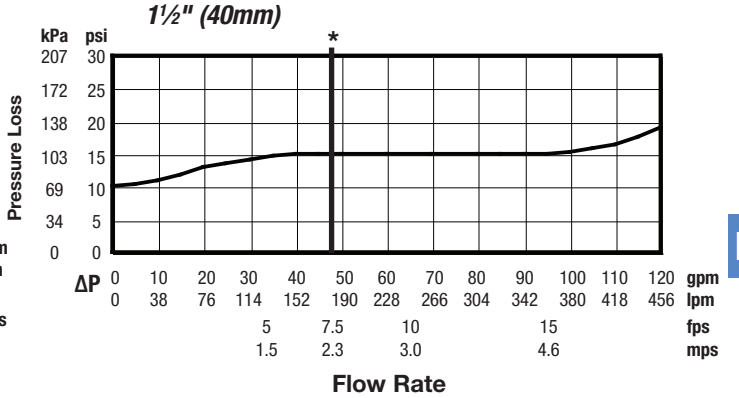
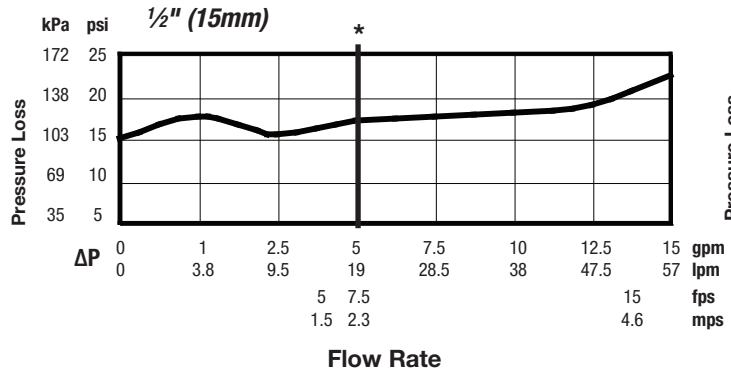
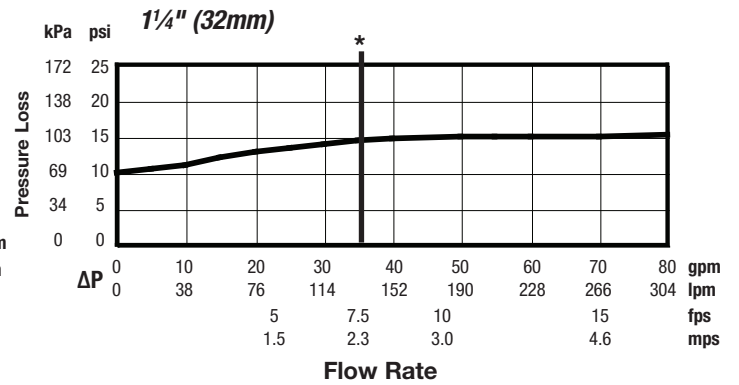
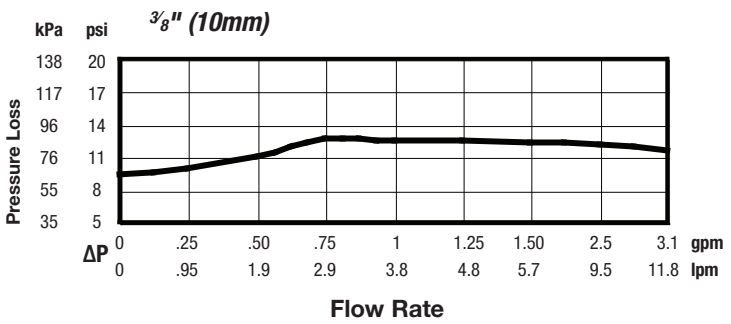
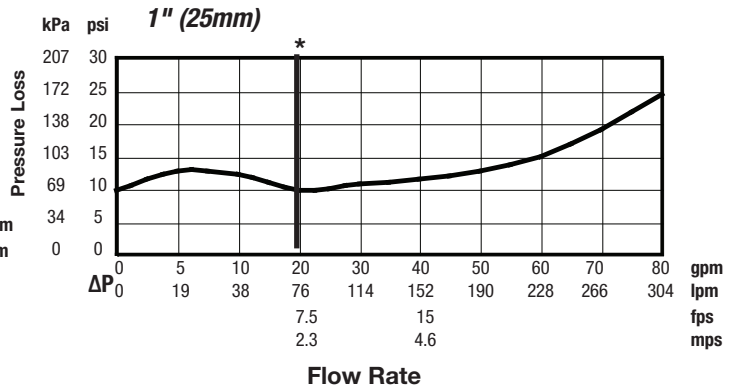
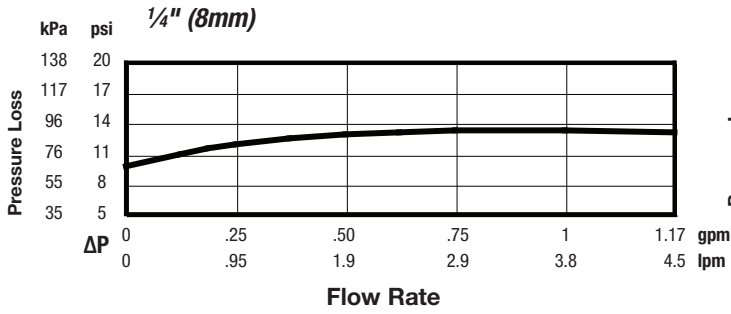


6000HMB

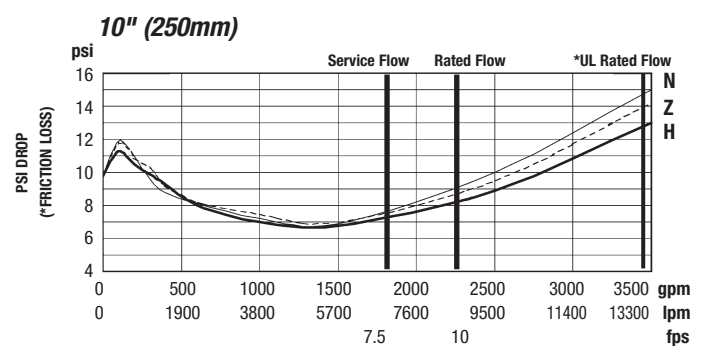
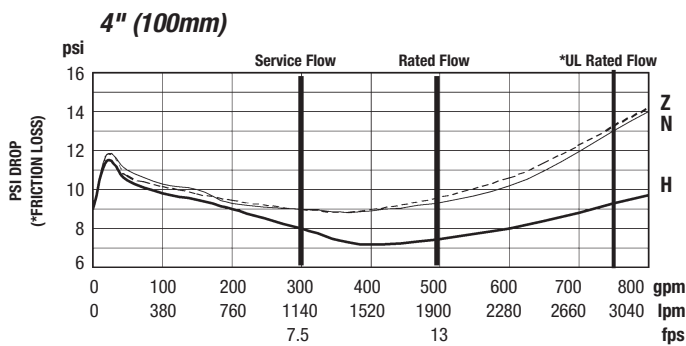
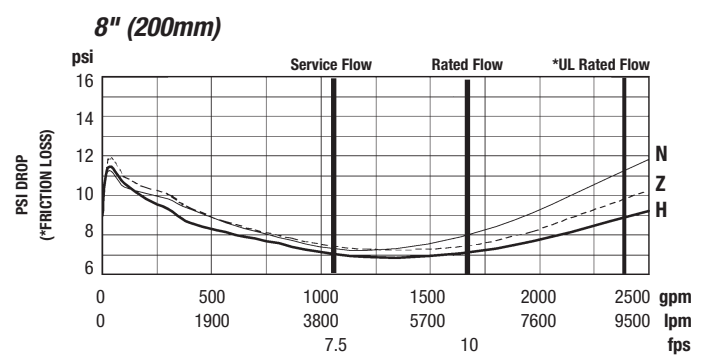
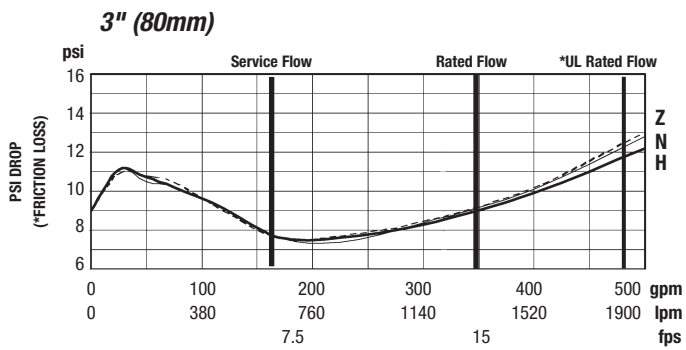
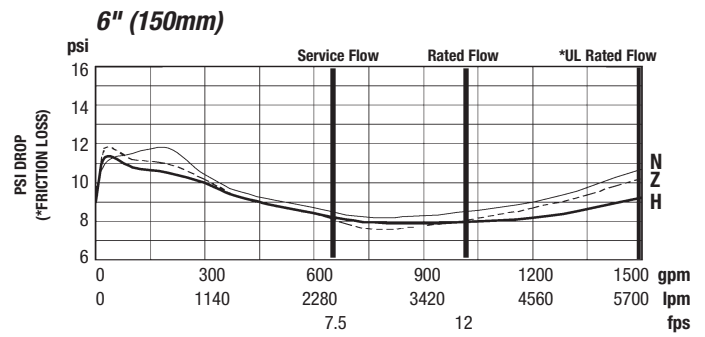
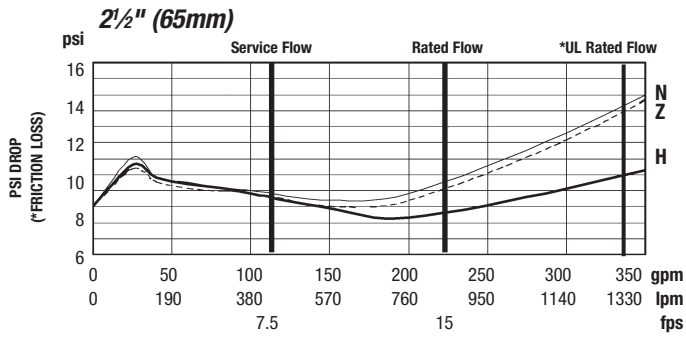
Pressure Loss Chart



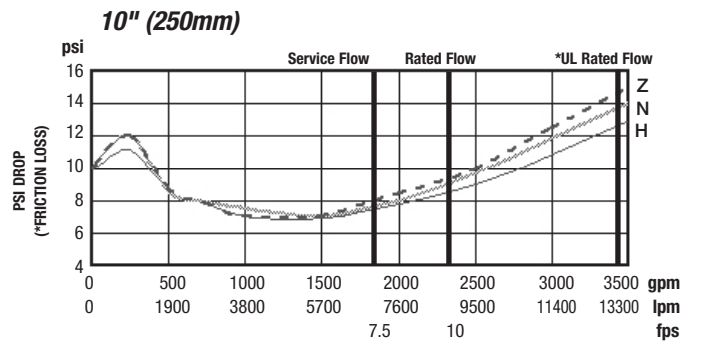
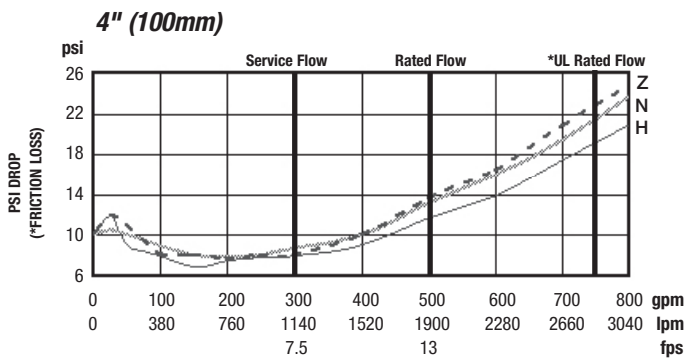
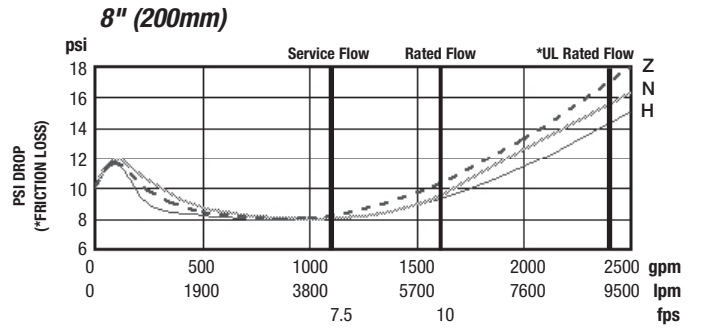
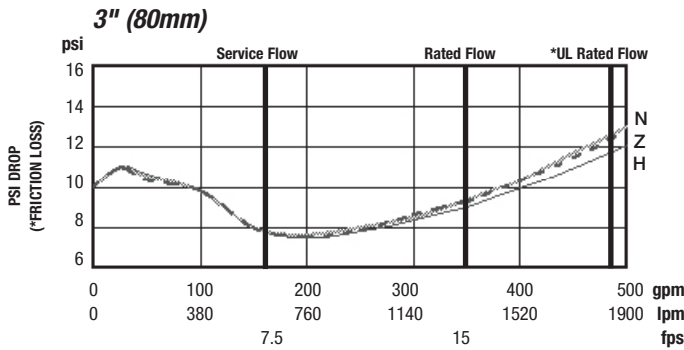
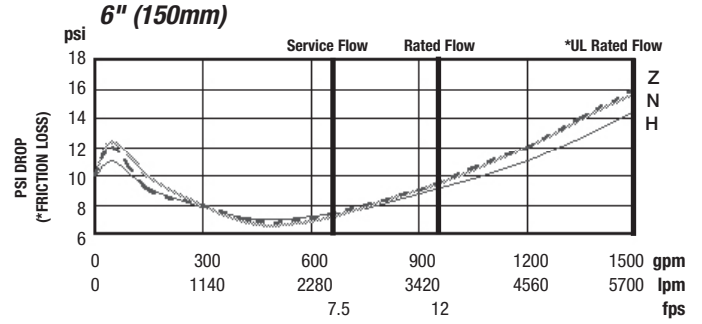
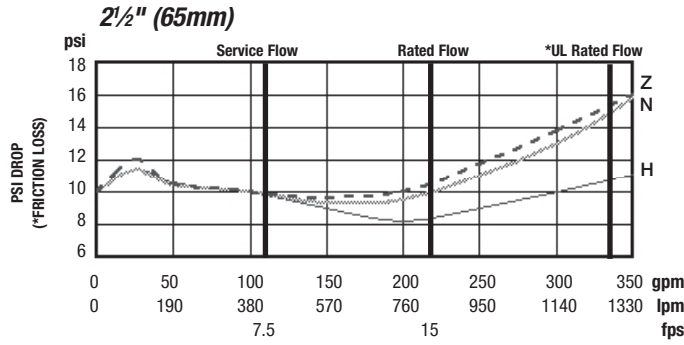
Series LF4000B, 4000B



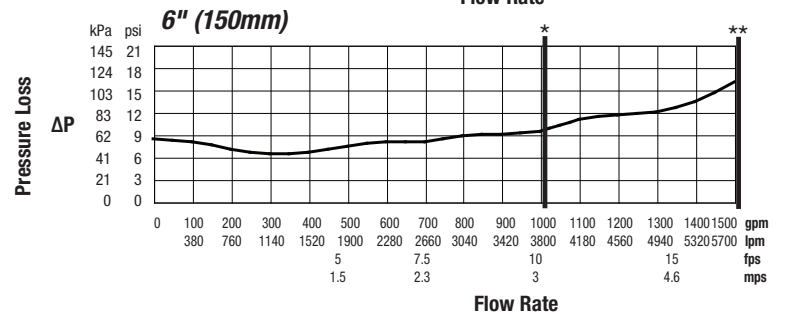
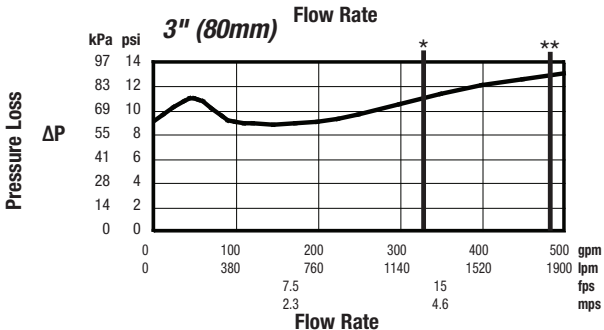
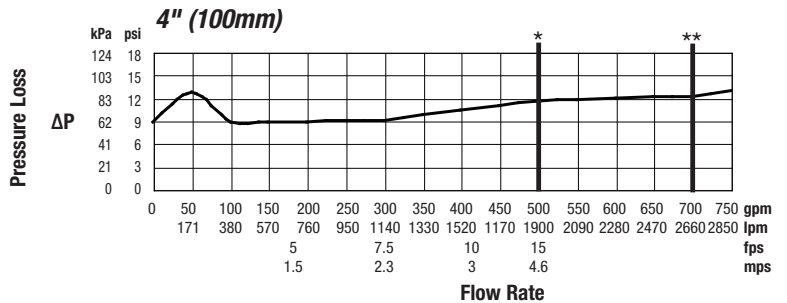
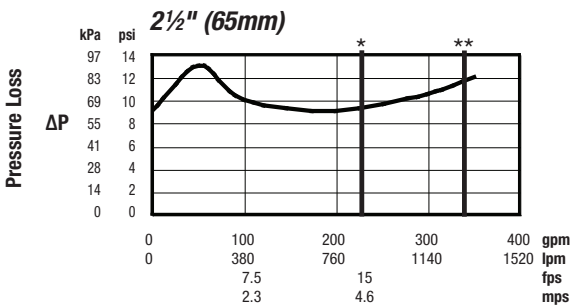
Maxim™ Series LFM500, LFM500N, LFM500Z, M500, M500N, M500Z



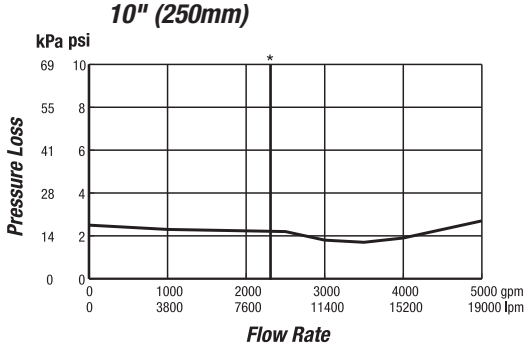
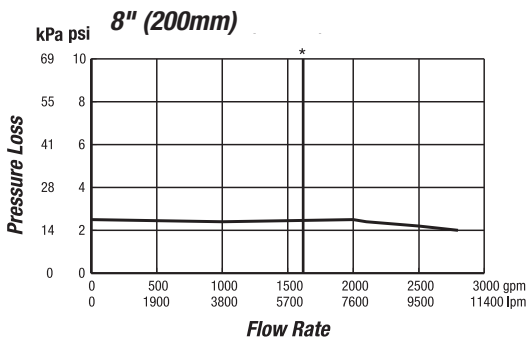
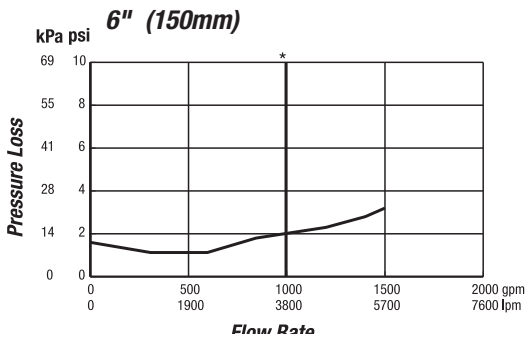
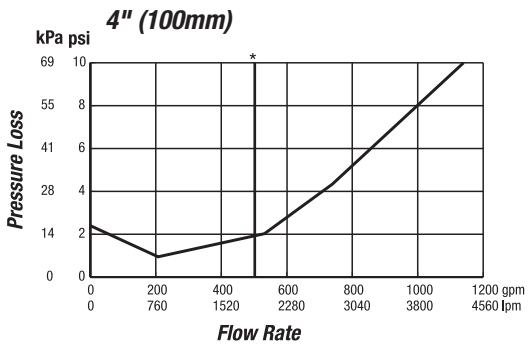
Colt™ Series LFC500, LFC500N, LFC500Z, C500, C500N, C500Z



Series 5000SS

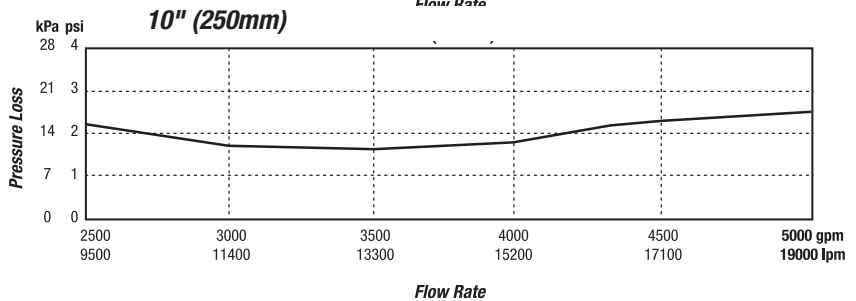
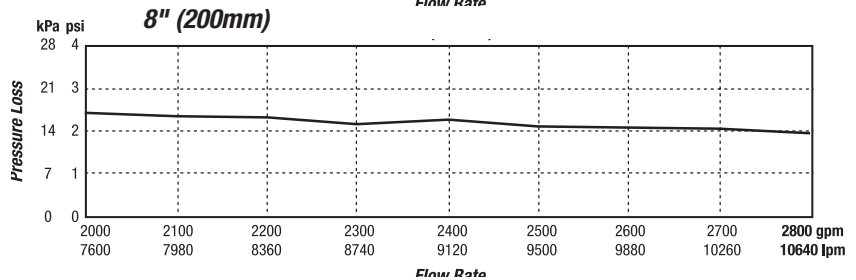
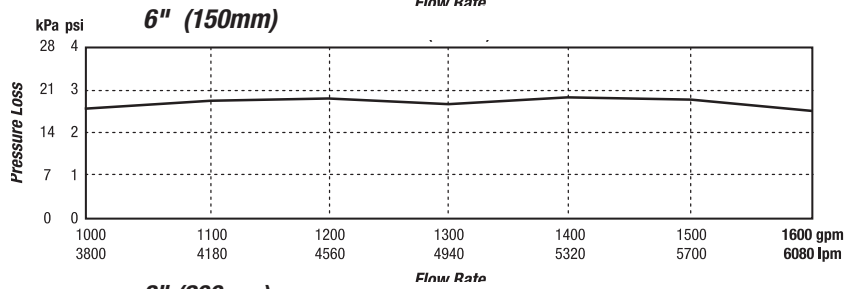
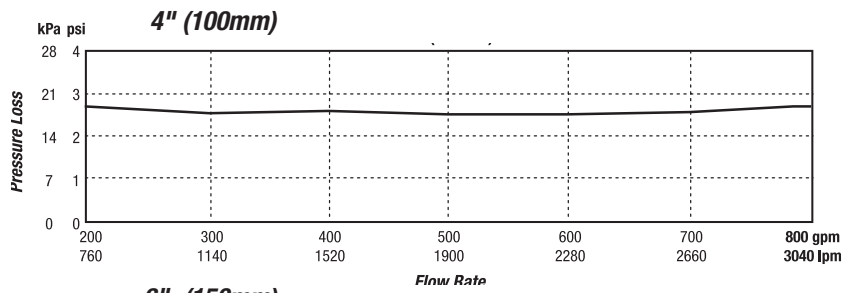
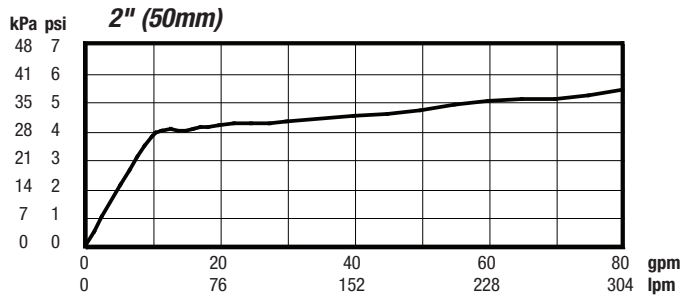
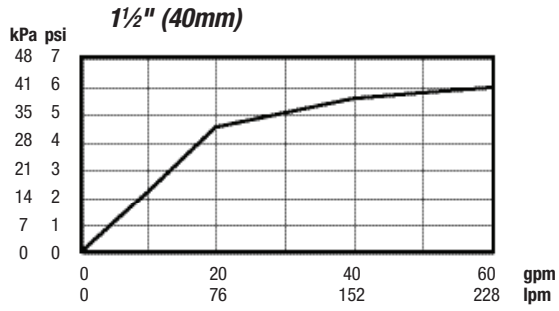


Series 1000SS

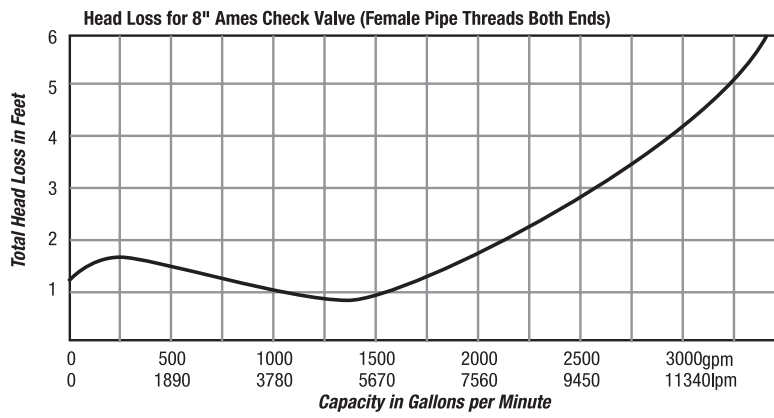


*Approximate head loss at the UL rated flow.

Series 1000DCV



Series ASCV



Footnotes:

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