Model 375VSR PRE-SET SERIES

Pre-Plumbed Backflow Station

Application

Assembly includes a Model 375 reduced pressure principle backflow preventer with a Model SXL strainer on the inlet and a Model NR3 pressure reducing valve on the outlet. The Pre-Set assembly is available in 1/2" - 2" sizes.

MODEL 375VSR

Standards Compliance 375 (3/4" - 2")

- ASSE® Listed 1013
- IAPMO® Listed
- CSA® B64.4
- AWWA compliant C511
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California

Standards Compliance NR3

- ASSE® Listed 1003
- IAPMO® Listed
- CSA® Certified

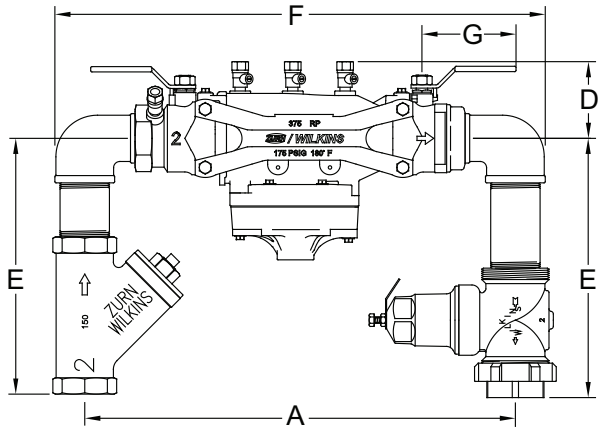
Features

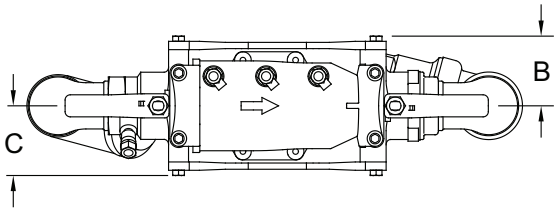
Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Maximum working water pressure	175 PSI
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
End connections Threaded FNPT	ANSI B1.20.1

For more details on each component refer to the following:

Model	Pages
375	2 & 3
NR3	4 & 5
SXL	6 & 7





Dimensions & Weights (do not include pkg.)

375 PRE-SET		DIMENSIONS (approximate)														WEIGHT	
		A		B		C		D		E		F		G			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			in.	mm	lbs.	kg
1/2	20	10 7/8	276	1 15/16	49	1 5/8	41	2 15/16	75	7 1/4	183	12 3/8	316	3	76	9	4.2
3/4	20	11	279	1 15/16	49	1 5/8	41	2 15/16	75	7 9/16	192	12 3/4	325	3	76	10	4.5
1	25	13 3/4	349	2 1/4	57	2 1/4	57	3 7/16	87	8 1/8	206	15 3/4	401	4	102	15	6.7
1-1/4	32	18	457	3 3/8	86	3 3/8	86	3 3/4	95	9 5/8	244	20 1/2	520	3 3/4	95	29	13.1
1-1/2	40	18 3/4	476	3 3/8	86	3 3/8	86	3 3/4	95	10 3/4	274	21 5/8	550	4 1/2	114	31	14
2	50	20 3/4	527	3 3/8	86	3 3/8	86	3 3/4	95	12 5/16	313	24 1/8	612	4 3/4	121	38	17.4

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Rev. B
Date: 12/13
Document No. BF-375VSR (PRESET)
Patent No. 6,513,543, 7,784,483, & 7,905,250
Product No. Model 375VSR

Model 375

Reduced Pressure Principle Assembly

Application
Designed for installation on water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists.

Standards Compliance
- ASSE® Listed 1013
- IAPMO® Listed
- CSA® B64.4
- AWWA compliant C511
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- UL® Classified (less shut-off valves only, 3/4" - 2")
- C-UL® Classified (less shut-off valves only, 3/4" - 2")

Materials

Housing	Reinforced Nylon, FDA approved
Fasteners	Stainless Steel, 300 Series
Elastomers	Silicone (FDA Approved) Buna Nitrile (FDA Approved)
Internals	Delrin, Nylon, NSF Listed
Springs	Stainless steel, 300 series
Ball Valves	Cast Bronze, ASTM B 584
Struts	Forged Brass, ASTM B 124

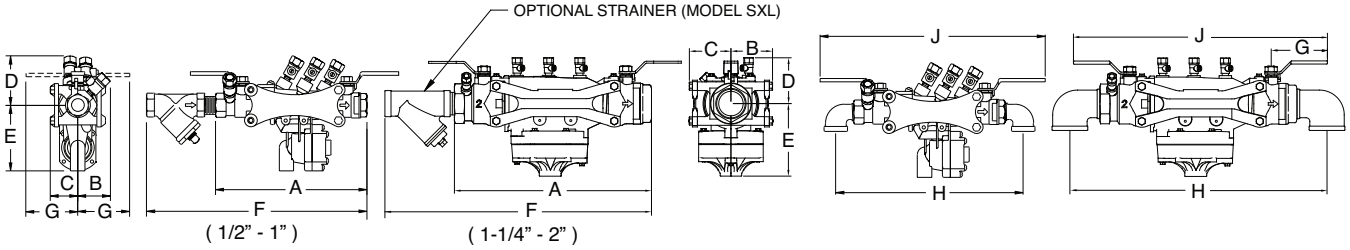
Features
Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Maximum working water pressure	175 PSI
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
End connections Threaded FNPT	ANSI B1.20.1

Options
(Suffixes can be combined)
- ☐ - with full port QT ball valves (standard)
- ☐ L - less ball valves, male pipe thread
- ☐ S - with bronze "Y" type strainer
- ☐ SH - with stainless steel handles
- ☐ SE - with street elbows
- ☐ FT - with integral male 45° flare SAE test fitting
- ☐ AG - with air gap
- ☐ SAG - with bronze "Y" strainer and air gap
- ☐ BOF - with Blow out/Flush fitting
- ☐ B - with black fusion epoxy coated ball valves & struts for theft protection

Accessories
- ☐ Repair kits
- ☐ Thermal expansion tank (Mdl. XT)
- ☐ Soft seated check valve (Mdl. 40XL2)
- ☐ Shock arrester (Model 1250XL)
- ☐ QT-SET Quick Test Fitting Set
- ☐ Blow out / Flush fitting (RK34-375BOF (1/2" or 3/4"), RK1-375BOF or RK114-350-375BOF)

MODELS 375SE



Dimensions & Weights (do not include pkg.)

MODEL 375 SIZE		DIMENSIONS (approximate)																				WEIGHT			
		A		A LESS BALL VALVES		B		C		D		E		F		G		H		J		LESS BALL VALVES		WITH BALL VALVES	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg
1/2	20	8 7/8	225	n/a	n/a	1 15/16	49	1 5/8	41	2 15/16	75	3 7/8	98	12 1/4	311	3	76	10 7/8	276	12 1/4	311	4.7	2.1	5.7	2.6
3/4	20	8 7/8	225	7 1/8	181	1 15/16	49	1 5/8	41	2 15/16	75	3 7/8	98	12 5/8	321	3	76	11	279	12 1/4	311	4.7	2.1	5.7	2.6
1	25	11 3/16	284	8 7/8	225	2 1/4	57	2 1/4	57	3 7/16	87	4	102	14 9/16	370	4	102	13 3/4	349	15 1/4	387	8.2	3.7	9.7	4.4
1-1/4	32	14 7/8	378	14 3/8	367	3 3/8	86	3 3/8	86	3 3/4	95	5 3/4	146	20 1/2	521	3 3/4	95	18	457	18 1/2	470	18.7	8.5	20.5	9.3
1-1/2	40	15 1/4	387	14 3/8	367	3 3/8	86	3 3/8	86	3 3/4	95	5 3/4	146	22	559	4 1/2	114	18 3/4	476	20 1/4	514	18.3	8.0	21.5	9.8
2	50	16	406	14 3/8	367	3 3/8	86	3 3/8	86	3 3/4	95	5 3/4	146	24	610	4 3/4	120.7	20 3/4	527	20 3/4	527	19.4	8.8	23.5	10.7

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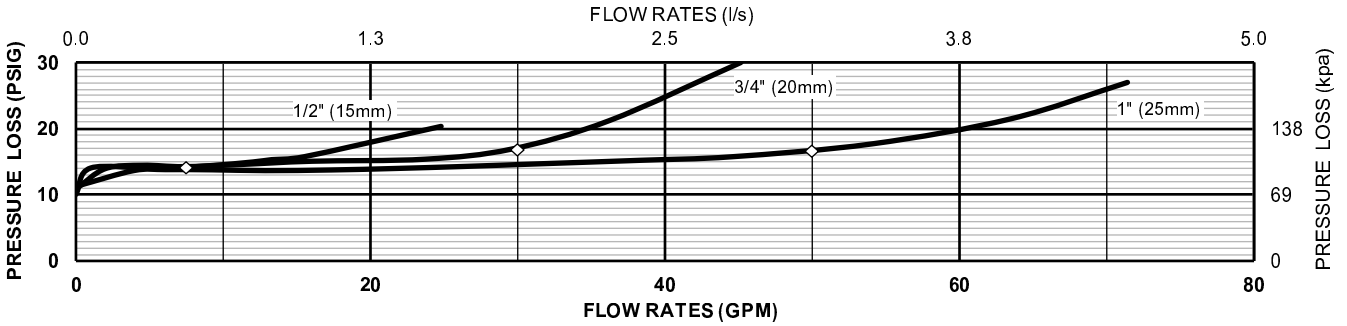
Rev. C
Date: 12/13
Document No. BF-375(SM)
Patent No. 6,513,543, 7,784,483, & 7,905,250
Product No. Model 375(SM)

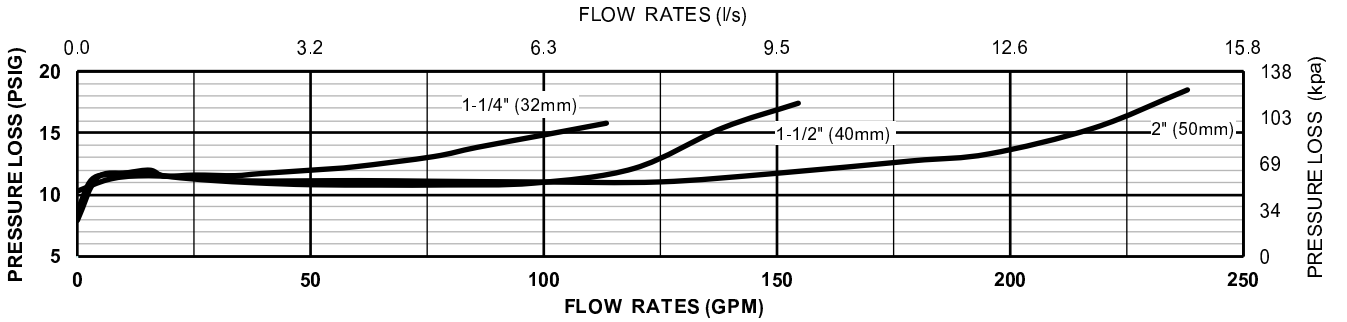
Flow Characteristics

◇ Rated Flow (established by approval agencies)

MODEL 375 1/2", 3/4" & 1" (STANDARD & METRIC)



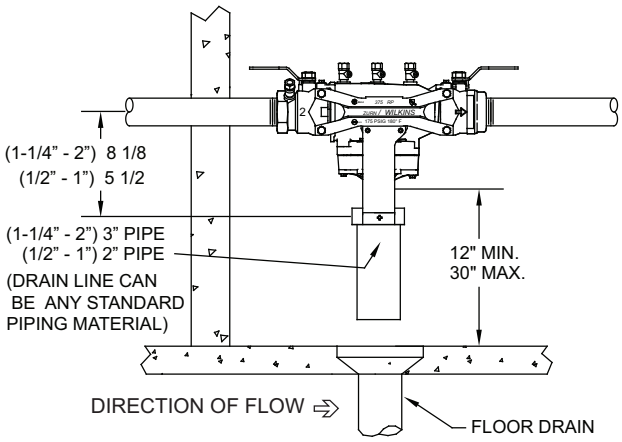
MODEL 375 1-1/4", 1-1/2" & 2" (STANDARD & METRIC)



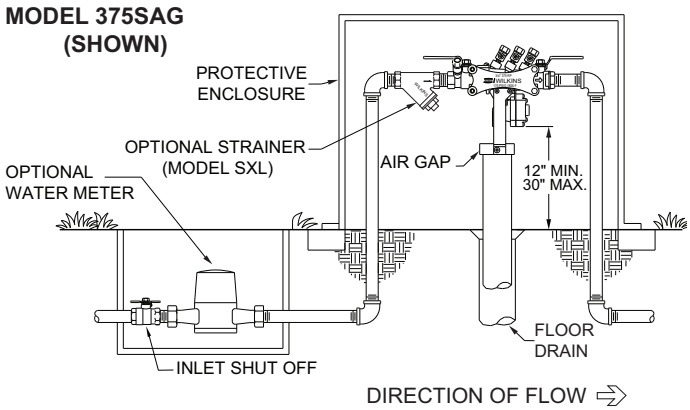
Typical Installation

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



INDOOR INSTALLATION



OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Preventer shall be ASSE® Listed 1013, rated to 180°F and supplied with full port ball valves. The main body shall be Nylon and the seat disc elastomers shall be silicone. If installed indoors, the installation shall be supplied with an air gap adapter. The Reduced Pressure Principle Backflow Preventer shall be a ZURN WILKINS Model 375.

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Model NR3

Water Pressure Reducing Valve with Integral By-pass Check Valve and Strainer

Application

Designed for installation on water lines to reduce high inlet pressure to a lower outlet pressure. The integral strainer makes this device most suitable for residential and commercial water systems that require frequent cleaning of sediment and debris. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion. The balance piston design enables the regulator to react in a smooth and responsive manner to changes in system flow demand, while at the same time, providing protection from inlet pressure changes.

Standards Compliance

- ASSE® Listed 1003
- IAPMO® Listed
- CSA® Certified

Materials

Main valve body	Cast bronze ASTM B 584
Bell housing	UV resistant polymer composite
Internals	Stainless steel, 300 Series
Stem	Brass ASTM B 16
Elastomers	EPDM (FDA approved)
	Buna nitrile (FDA approved)
Cartridge	Delrin™ (NSF Listed)
Springs	Oil temp wire, ASTM A 229
Strainer screen	300 Series Stainless Steel

Features

Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"	
Max. working water pressure (1/2" - 1-1/4")	400 psi
Max. working water pressure (1-1/2" - 2")	300 psi
Minimum inlet pressure = 80 psi as per UPC Code	
Max. working water temperature	140°F
Reduced pressure range (1/2" - 1-1/4")	15 to 75 psi
Reduced pressure range (1-1/2" - 2")	25 to 75 psi
Factory preset	50 psi
Threaded connections (FNPT)	ANSI B1.20.1
Copper connections (FC)	ANSI B16.22
CPVC tailpiece: Max.hot water temp.	140°F @ 100 psi
Cold water rated temp.	73.4°F @ 400 psi

Options (Suffixes can be combined)

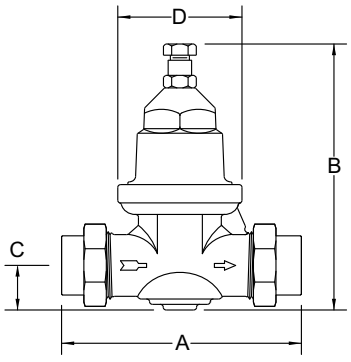
- ☐ - standard with single union FNPT connection and 20 mesh strainer screen
- ☐ C - with FC (copper sweat) union connection
- ☐ DU - with double union connection (FNPT)
- ☐ DM - with double male 3/4" & 1" meter threads connection
- ☐ DMSS - DM with SS spring & sealed cage
- ☐ G - tapped with gauge
- ☐ LU - with integral FNPT connection (no union)
- ☐ PEX - with male barbed connection tailpiece for crossed-linked polyethylene tubing
- ☐ SC - with ss adjustment bolt and lock nut, with ss spring for below-ground installations
- ☐ P - tapped and plugged for gauge
- ☐ CPVC - CPVC tailpiece connection (1")
- ☐ HRSC - High Range 15-150 psi (1/2"-1-1/4" only) with sealed cage

Accessories

☐	Repair kit	
☐	1" BR4DUSPC	Special plastic spacer nipple
☐	1-1/4" BR4DUSPC	Steel pipe
☐	1-1/2" NR3DUSPC	Steel pipe
☐	2" NR3DUSPC	Steel pipe
☐	TPK	Tailpiece kit

Dimensions & Weights (do not include pkg.)

SIZE		CONNECTIONS	DIMENSIONS (approximate)								WEIGHT	
			A		B		C		D			
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
1/2	15	SINGLE UNION	4 3/8	111	6 1/4	159	1 1/8	29	2 1/2	64	3	1.5
1/2	15	LESS UNION	3 1/2	89	6 1/4	159	1 1/8	29	2 1/2	64	3	1.5
1/2	15	DOUBLE UNION	5 1/4	133	6 1/4	159	1 1/8	29	2 1/2	64	3	1.5
3/4	20	SINGLE UNION	4 7/16	113	6 1/4	159	1 1/8	29	2 1/2	64	3	1.5
3/4	20	LESS UNION	3 1/2	89	6 1/4	159	1 1/8	29	2 1/2	64	3	1.5
3/4	20	DOUBLE UNION	5 3/8	137	6 1/4	159	1 1/8	29	2 1/2	64	3	1.5
3/4	20	DOUBLE MALE METER	3 5/8	92	6 1/4	159	11/8	29	2 1/2	64	2	1.5
1	25	SINGLE UNION	4 15/16	125	6 1/4	159	1 1/8	29	2 1/2	64	4	2
1	25	LESS UNION	4	102	6 1/4	159	1 1/8	29	2 1/2	64	3.5	1.6
1	25	DOUBLE UNION	5 15/16	151	6 1/4	159	1 1/8	29	2 1/2	64	45	2.1
1	25	DOUBLE MALE METER	4	102	7 3/4	197	1 3 16	30	3	76	4	2.0
1 1/4	32	SINGLE UNION	6 3/16	157	7 3/4	197	1 3/16	30	3	76	5.5	2.5
1 1/4	32	LESS UNION	5	127	7 3/4	197	1 3/16	30	3	76	5	2.3
1 1/4	32	DOUBLE UNION	7 3/8	187	7 3/4	197	1 3/16	30	3	76	6	2.7
1 1/2	40	SINGLE UNION	6 5/16	160	8 1/2	216	1 3/4	45	3 3/4	95	6.6	3
1 1/2	40	LESS UNION	5	127	8 1/2	216	1 3/4	45	3 3/4	95	5.5	2.5
1 1/2	40	DOUBLE UNION	7 1/2	191	8 1/2	216	1 3/4	45	3 3/4	95	7.7	3.5
2	50	SINGLE UNION	6 1/4	159	8 1/2	216	2	51	3 3/4	95	8.1	3.7
2	50	LESS UNION	5	127	8 1/2	216	2	51	3 3/4	95	6.7	3
2	50	DOUBLE UNION	7 1/2	191	8 1/2	216	2	51	3 3/4	95	9.5	4.3



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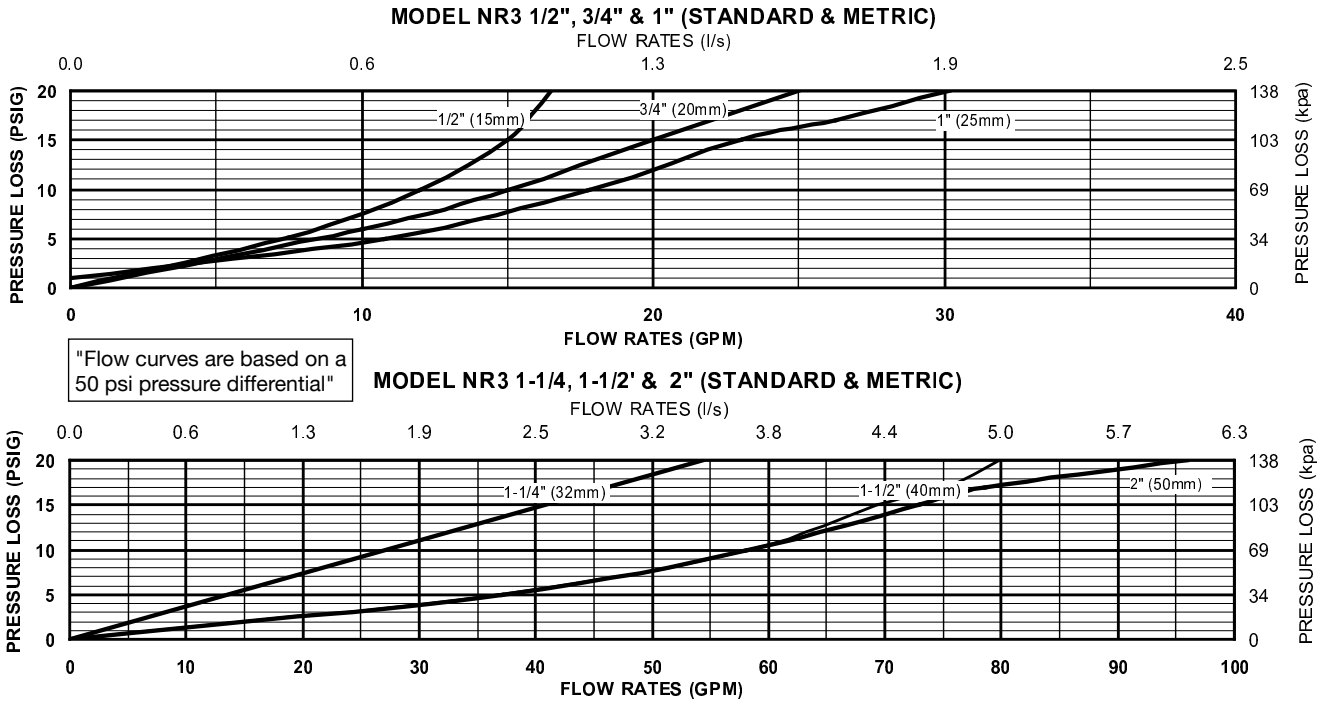
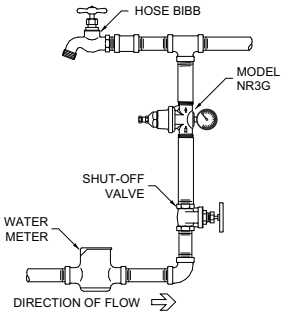
Rev. A
Date: 4/13
Document No. REG-NR3
Product No. Model NR3

Flow Characteristics

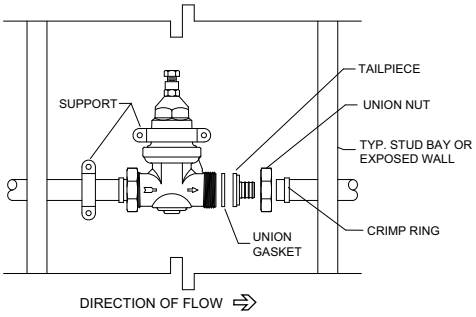


Typical Installation

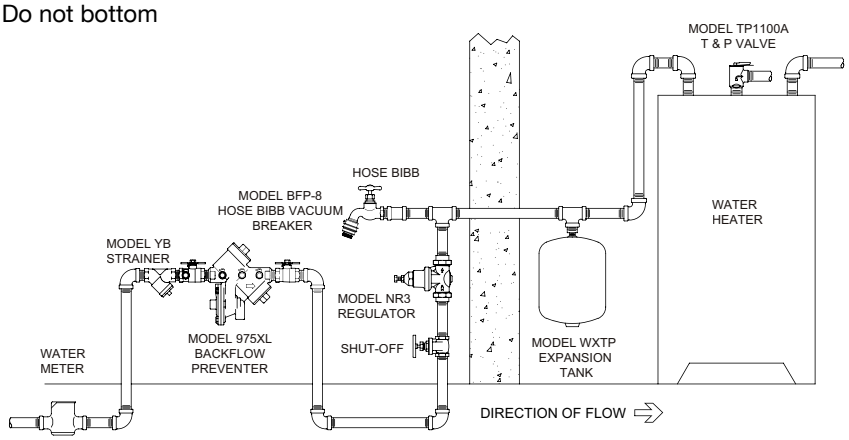
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. The Model NR3 may be installed in any position. If installed in a pit, vault, or indoors, specify the “SC” sealed cage option. The assembly shall be installed with sufficient side clearance for testing and maintenance. Multiple installations are recommended for wide demand variations or where the desired pressure reduction is more than 4 to 1 (ie: 200 psi inlet reduced to 50 psi outlet). **Caution:** Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing.



Outdoor Installation



NR3 Pex Installation



Typical Installation

Specifications

The Water Pressure Reducing Valve shall be ASSE® Listed 1003, and available with single union, double union and less union end connections. The main body shall be cast bronze (ASTM B 584) alloy. The bell shall be composite plastic. The cartridge shall be acetal and incorporate an integral seat. The seat disc elastomer shall be EPDM. The assembly shall be accessible for maintenance without removing the device from the line. The Water Pressure Reducing Valve shall be a ZURN WILKINS Model NR3.

Model SXL

Cast Bronze "Y" Type Strainer

Application

Ideal for use where Lead-Free* fittings are required. Recommended for a variety of water service lines including residential and commercial irrigation, swimming pools and cooling tower water. They are also designed to protect delicate equipment such as regulators and backflow preventers by filtering sediment which could cause premature failure.

Standards Compliance

- NSF® Listed - Standard 61, Annex G*
- Certified to NSF/ANSI 372* by IAPMO R&T

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Certified to NSF/ANSI 61-G

Materials

Main valve body	Low Lead Cast Bronze ASTM B 584
Access covers	Low Lead Bronze ASTM B 584
Screens	20 Mesh Stainless Steel, 300 Series

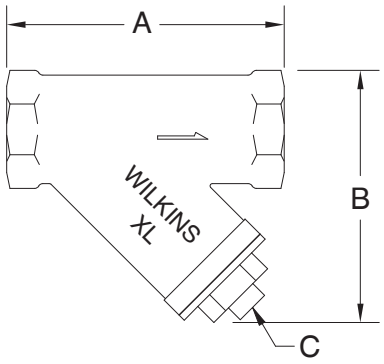
Features

Sizes: 1/2", 3/4", 1", 1 1/4, 1 1/2", 2"
2 1/2", 3"

Temperature/pressure rating	180°F 300 psi WOG
Threaded connections (FNPT) (Supplied with brass closure plug)	ANSI B1.20.1

Options

☐ C - with copper sweat connections (3/4" & 1")



Dimensions & Weights (do not include pkg.)

MODEL SXL (NPT CONNECTION)								
SIZE		DIMENSIONS (approximate)					WEIGHT	
		A		B		C		
in.	mm	in.	mm	in.	mm	in.	lbs.	kg
1/2	15	3 1/4	83	3	76	3/8 NPT	1	0.5
3/4	20	3 7/8	98	3 1/2	89	3/8 NPT	1 1/4	0.6
1	25	4 1/2	114	4	102	1/2 NPT	1 3/4	0.8
1 1/4	32	5 5/16	135	4 3/4	121	1/2 NPT	2 3/4	1.2
1 1/2	40	6 5/16	160	5	127	1/2 NPT	31/2	1.6
2	50	7 1/2	191	6	152	1/2 NPT	6	2.7
2 1/2	65	9	229	7 1/2	191	1/2 NPT	9 1/4	4.2
3	80	10	254	8 1/2	216	1/2 NPT	14	6.4
MODEL SXLC (COPPER SWEAT CONNECTION)								
SIZE		DIMENSIONS (approximate)					WEIGHT	
		A		B		C		
in.	mm	in.	mm	in.	mm	in.	lbs.	kg
3/4	20	3 15/16	100	3 5/16	84	3/8 NPT	1	0.5
1	25	5	127	3 15/16	100	1/2 NPT	1.5	0.7

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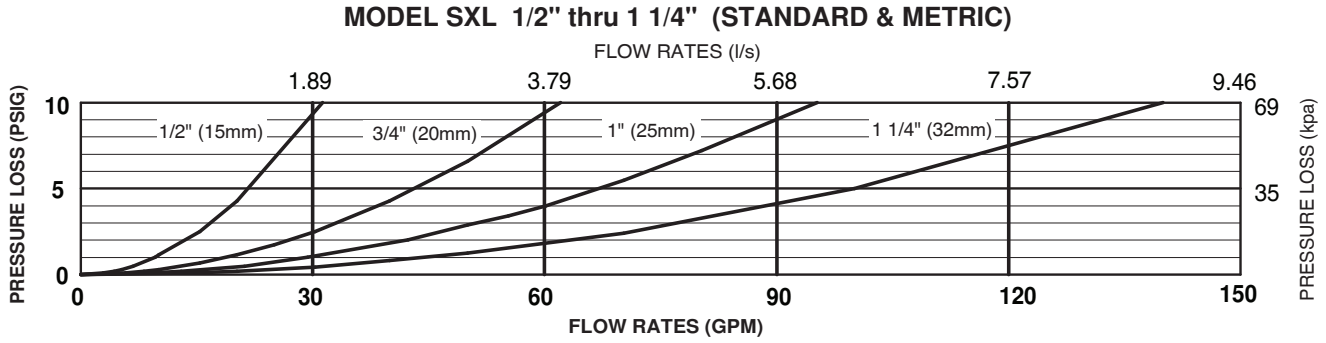
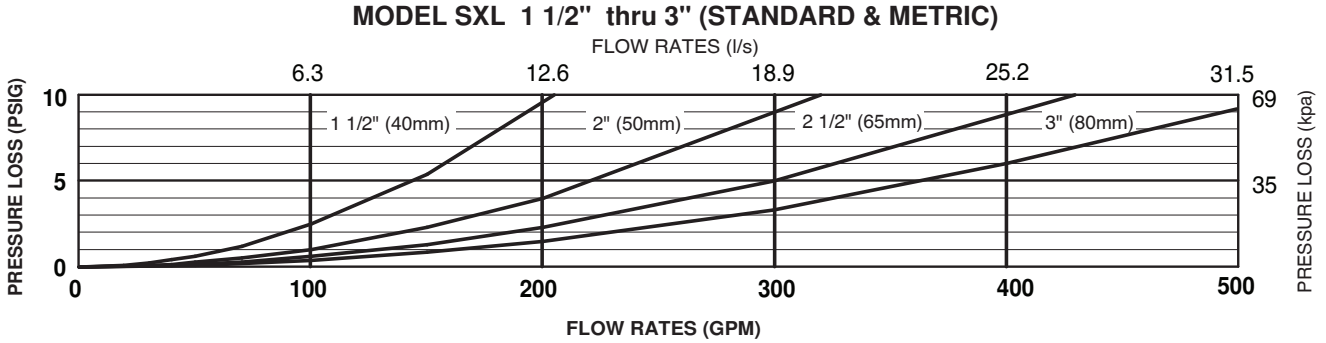
Rev. A
Date: 5/13
Document No. STR-SXL
Product No. Model SXL

Flow Characteristics

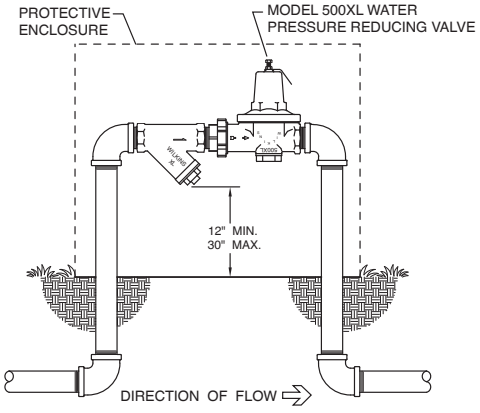




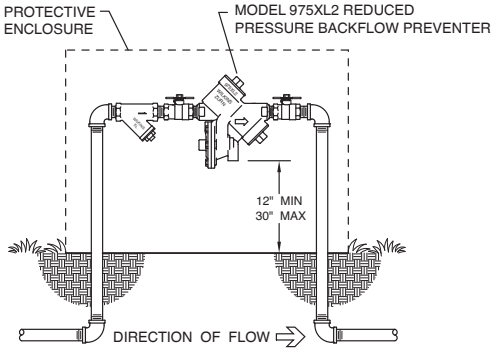
Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. If installed below grade, be certain adequate drainage is provided to prevent the device from being submerged. Horizontal installation with the strainer cap facing downward is the preferred installation orientation; however the strainer will provide protection in any orientation.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2	32	48	63	95
2"	52	78	105	167



OUTDOOR INSTALLATION



OUTDOOR INSTALLATION

Specifications

The "Y" type strainer shall be a manufactured import certified to NSF/ANSI 372. The main body and cover shall be low lead cast bronze (ASTM B 584), the strainer screen shall be 20 mesh 300 series stainless steel and accessible for maintenance without removing the device from the line. The "Y" type strainer shall be a ZURN WILKINS Model SXL.