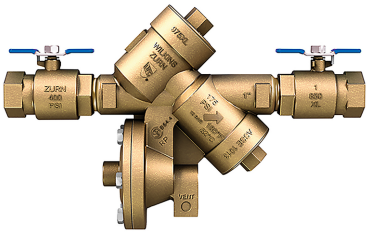
Model 975XL (3/4" - 2")

Backflow Preventer - Reduced Pressure Principle Assembly, Non-Potable

TAG

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. For non-potable applications only. This backflow prevention assembly is connectable and capable of flood sensing.



1" 975XL



2" 975XL

Standards Compliance

- ASSE® Listed 1013
- cUPC® Listed
- UL® Classified (less shut-off valves or with OS&Y valves)
- C-UL® Classified
- CSA® Certified B64.4
- AWWA compliant C511
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- NYC MEA 425-89-M VOL 3

Materials

Main Valve Body	Cast Bronze ASTM B584
Access Covers	Cast Bronze ASTM B584
Elastomers	Silicone
	Buna Nitrile (FDA approved)
Fasteners	300 series Stainless Steel
Polymers	NORYL™
Springs	300 series Stainless Steel

Features

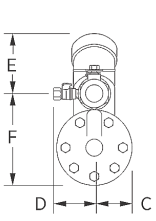
Sizes	3/4", 1", 1-1/4", 1-1/2", 2"
Maximum working water pressure	175 PSI
Maximum working water temperature	180°F
Hydrostatic test pressure	350 PSI
End connections (Threaded)	ANSI B1.20.1
Relief Valve discharge port	3/4" - 1" - 0.63 sq. in.
	1 1/4" - 2" - 1.19 sq. in.

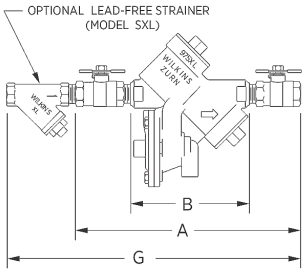
Options (Suffixes can be combined)

	With full port QT ball valves (standard)
L	Less ball valves, male pipe thread
SE	With street elbows (3/4" & 1")
U	With union ball valves (3/4" - 1")
TCU	With test cocks up
FT	With integral male 45° flare SAE test fitting
S	With lead free bronze wye strainer
FDC	With fire hydrant connection; 2" only

Accessories

- Repair Kits (3/4" - 2")
- Water Hammer Arrestor 1260XL
- In-Line Single Check Valve 40XL2
- Air Gap Fitting for RP Backflow AG
- Thermal Expansion Tank XT
- Quick Test Fitting Set QT-SET





Dimensions & Weights (do not include pkg.)

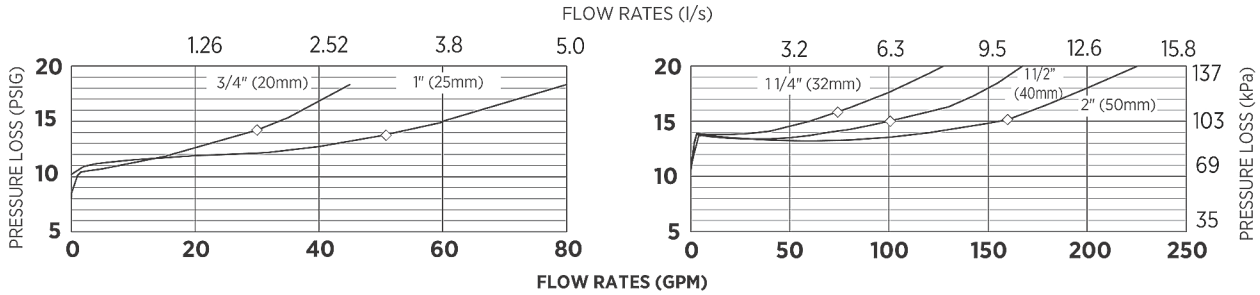
MODEL 975XL SIZE		DIMENSIONS (approximate)														WITH BALL VALVES	
		A		B		C		D		E		F		G			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	12	305	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	16 1/8	410	12	5.5
1	25	13	330	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	17 3/8	441	14	6.4
1 1/4	32	17	432	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	22 9/16	573	28	12.7
1 1/2	40	17 3/8	441	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	24 1/16	611	28	12.7
2	50	18 1/2	470	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	26 1/2	673	34	15.4

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

Flow Characteristics

◇ Rated Flow (established by approval agencies)

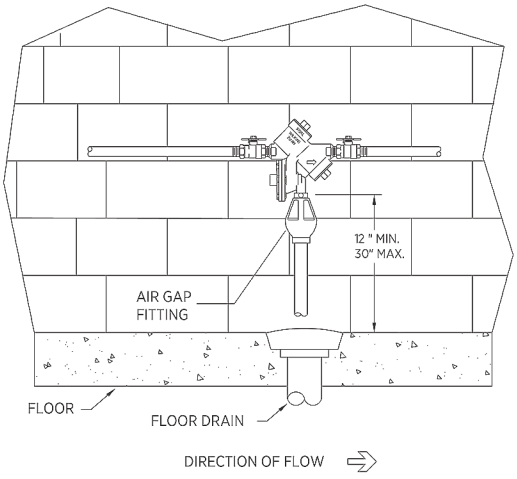
MODEL 975XL 3/4", 1", 1 1/4", 1 1/2" & 2" (STANDARD & METRIC)



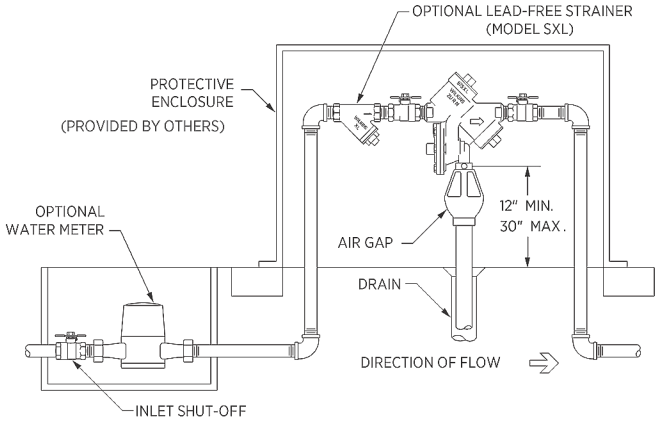
Typical Installation

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
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



INDOOR INSTALLATION



OUTDOOR INSTALLATION

Installation and Maintenance Instructions - 3/4" to 2" Model 975XL

Instructions for Freeze Protection - Model 975XL

Specifications

The Reduced Pressure Principle Backflow Preventer shall be shall be ASSE® Listed 1013, rated to 180°F, and supplied with full port ball valves. The main body and access covers shall be bronze (ASTM B 584), the seat ring and all internal polymers shall be NORYL™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter. For use in non-potable applications only. The Reduced Pressure Principle Backflow Preventer shall be a WILKINS Model 975XL.