

Application

Ideal for use where Lead-Free* valves are required. Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The integral strainer makes this device most suitable for residential and 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 balanced stem design enables the pressure reducing valve (PRV) 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
 - cUPC® Listed
 - CSA® Certified B356
 - Meets the requirements of NSF/ANSI/CAN 61 and 372*
- *(LESS THAN 0.25% WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main Valve Body	Low Lead Cast Bronze
Bell Housing	UV resistant polymer composite
Cartridge	Acetal
Elastomers	Buna Nitrile
	EPDM
Springs	300 series Stainless Steel
Stems	Low Lead Brass
Strainer Screen	300 Series Stainless Steel

Features

Sizes	3/4", 1"
Max. working water pressure	300 psi
Max. working water temperature	140°F
Reduced pressure range	25 to 75 psi
Factory preset	50 psi
Threaded connections (FNPT)	ANSI B1.20.1
Copper connections (female)	ANSI B16.22



3/4" 20XL



3/4" 20XL PEX

Options (Suffixes can be combined)

- Standard with single FNPT union connection
- C** Single union copper sweat x FNPT
- DU** Double union FNPT x FNPT
- DUC** Double union Copper Sweat x Sweat
- DULU** With two integral FNPT connections (no unions)
- PEX** With integral male crimp PEX (ASTM F1807) barb connections for cross-linked polyethylene tubing
- EPEX** With integral male expansion PEX (ASTM F1960) barb connections for cross-linked polyethylene tubing

Accessories

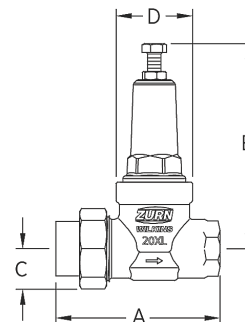
- Repair Kits (3/4" - 1")**
- 1" w/ FNPT sweat union conn. **SPK1-20XL**
- 1" w/ copper sweat union conn. **SPK1-20XLC**
- 3/4" w/ FNPT union conn. **SPK34-20XL**
- 3/4" w/ copper sweat union conn. **SPK34-20XLC**

Retrofit Kits: Order and Install with 20XLDULU to replace existing PRV

	EXISTING INSTALLATION TYPE:	SINGLE UNION				DOUBLE UNION			
		NR3XL, NR3, BR4		70XL, 70		NR3XL, NR3, BR4		70XL, 70	
		SIZE:		SIZE:		SIZE:		SIZE:	
		3/4"	1"	3/4"	1"	3/4"	1"	3/4"	1"
RETROFIT KIT	RFK34-NR3-20XL	•				•			
	RFK1-NR3-20XL		•			•			
	RFK34-70-20XL			•					
	RFK34-70DU-20XL							•	
	RFK1-70-20XL			•					•

Dimensions & Weights (do not include pkg.)

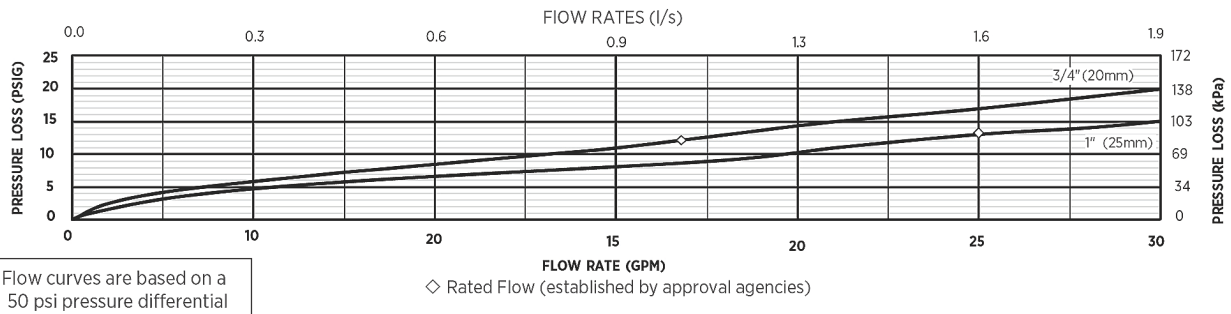
SIZE		CONNECTIONS	DIMENSIONS										WEIGHT	
			A		B		C		D		ROUGH-IN LENGTH			
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	LESS UNION	2 15/16	75	4 11/16	119	7/8	22	1 3/4	44	1 7/8	48	1.0	0.5
3/4	20	SINGLE UNION	3 7/8	98	4 11/16	119	7/8	22	1 3/4	44	2 13/16	71	1.2	0.5
3/4	20	DOUBLE UNION	4 7/8	124	4 11/16	119	7/8	22	1 3/4	44	3 13/16	97	1.5	0.7
3/4	20	CRIMP PEX	4 3/16	106	4 11/16	119	3/4	20	1 3/4	44	2 7/8	73	0.8	0.4
3/4	20	EXPANSION PEX	4 9/16	116	4 11/16	119	3/4	20	1 3/4	44	2 11/16	68	1.0	0.5
1	25	LESS UNION	3 1/4	83	4 11/16	119	1 1/16	27	1 3/4	44	1 7/8	48	1.1	0.5
1	25	SINGLE UNION	4 1/8	105	4 11/16	119	1 1/16	27	1 3/4	44	2 13/16	72	1.4	0.6
1	25	DOUBLE UNION	5 1/16	129	4 11/16	119	1 1/16	27	1 3/4	44	3 3/4	95	1.7	0.8
1	25	CRIMP PEX	4 1/4	108	4 11/16	119	3/4	20	1 3/4	44	2 11/16	68	0.9	0.4
1	25	EXPANSION PEX	5 1/16	129	4 11/16	119	3/4	20	1 3/4	44	2 11/16	68	1.0	0.5



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

Flow Characteristics

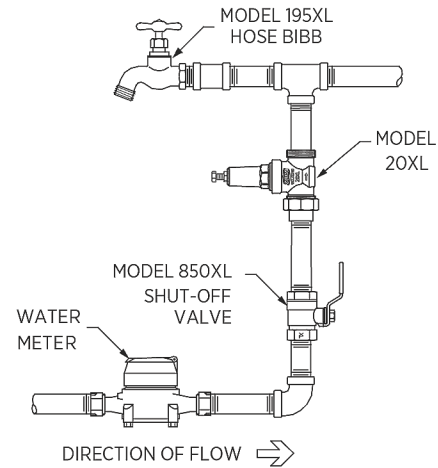
MODEL 20XL 3/4" & 1" (STANDARD AND METRIC)



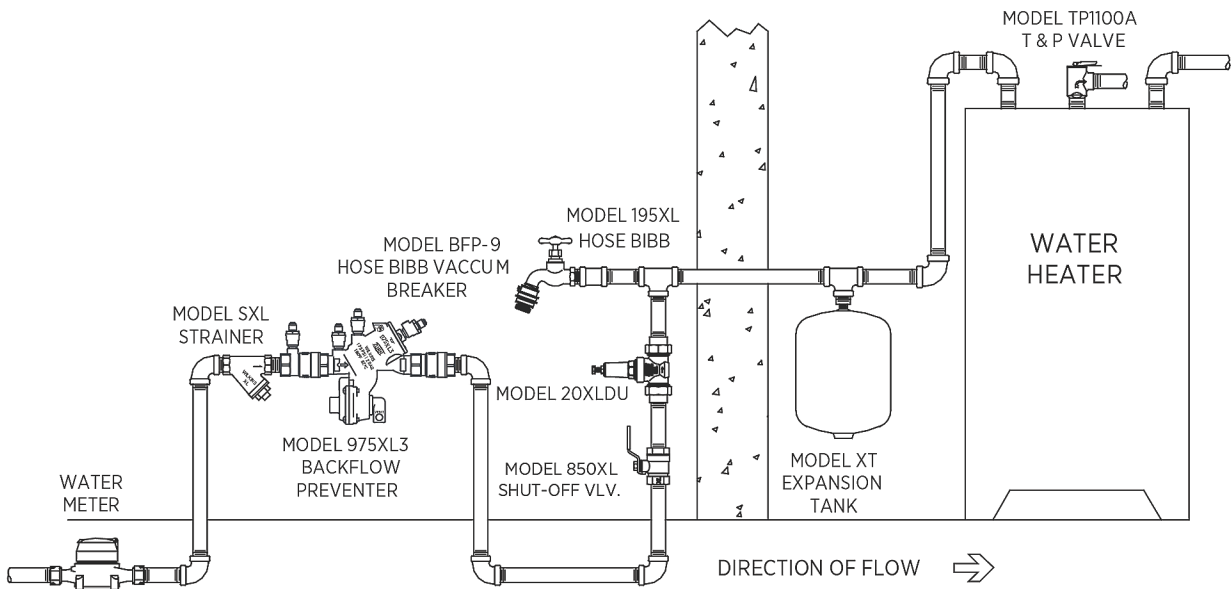
Typical Installation

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 20XL may be installed in any position. 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 3 to 1 (ie: 150 psi inlet reduced to 50 psi outlet).

CAUTION: Anytime a pressure reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing. For pex tube installations, do not exceed the rated pressure or temperature of the tube. Consult with the tubing specification sheet for details.



OUTDOOR INSTALLATION



TYPICAL INSTALLATION

Installation and Maintenance Instructions - 20XL

Specifications

The Water Pressure Reducing Valve shall be certified to NSF/ANSI/CAN 61 and 372, ASSE® Listed 1003, and CSA® Certified B356, available with single union, double union, less union, crimp pex and expansion pex end connections. The main body shall be low lead cast bronze alloy. The bell shall be UV resistant polymer composite. The integral strainer screen shall be 300 series stainless steel. The cartridge shall incorporate an integral seat. The integral by-pass shall prevent excessive system pressure caused by thermal expansion. 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 WILKINS Model 20XL.