

Application

Ideal for use where Lead-Free* valves are required. Designed for installation on potable water lines to protect against backsiphonage of contaminated water into the potable water supply. Supplied with an integral anti-freeze relief valve to reduce the risk of valve damage under intermittent, non-seasonal freezing conditions. Designed for use under continuous pressure. Assembly shall provide protection where a potential health hazard exists.



Standards Compliance

- ASSE® Listed 1020
- UPC® Listed
- CSA® Certified B64.1.2
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- Meets the requirements of NSF/ANSI/CAN 372*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Features

Sizes	3/4", 1"
Maximum working water pressure	175 PSI
Maximum working water temperature	140°F
Hydrostatic test pressure	350 PSI
Threaded connections	ANSI B1.20.1
Integral anti-freeze relief valve	
Replaceable thermoplastic modular cartridge	



1" 420XL

Materials

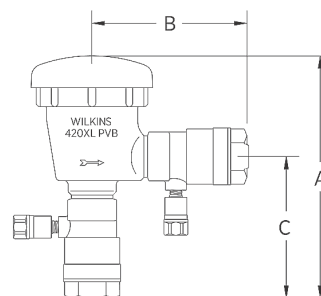
Main Valve Body	Cast Bronze ASTM B584
Elastomers	Silicone (FDA approved) Buna Nitrile
Polymers	Polypropylene (FDA Approved) POM Acetal (Delrin®) PPE (NORYL™)
Springs	300 series Stainless Steel

Accessories

- Repair Kits (1/2" and 3/4")
- Repair Kits (1")
- Water Hammer Arrestor 1260XL

Dimensions & Weights (do not include pkg.)

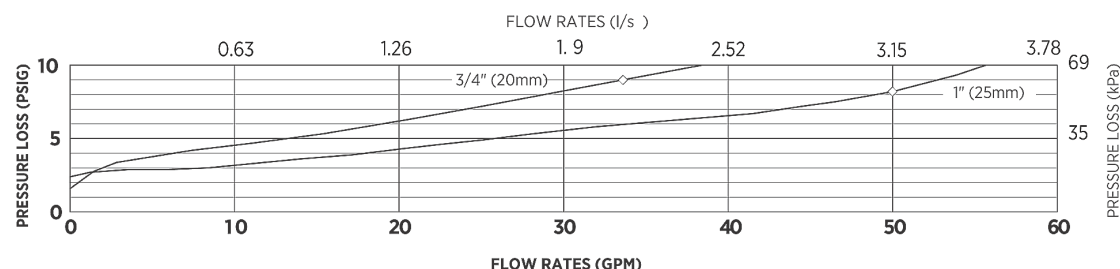
MODEL SIZE		DIMENSIONS (approximate)						WEIGHT	
		A		B		C			
in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	6 3/4	172	4 1/4	108	3 13/16	97	4	1.8
1	25	7 15/16	202	4 15/16	125	4 1/2	114	5	2.3



◇ Rated Flow (established by approval agencies)

Flow Characteristics

MODEL 420XL 3/4" & 1" (STANDARD & METRIC)

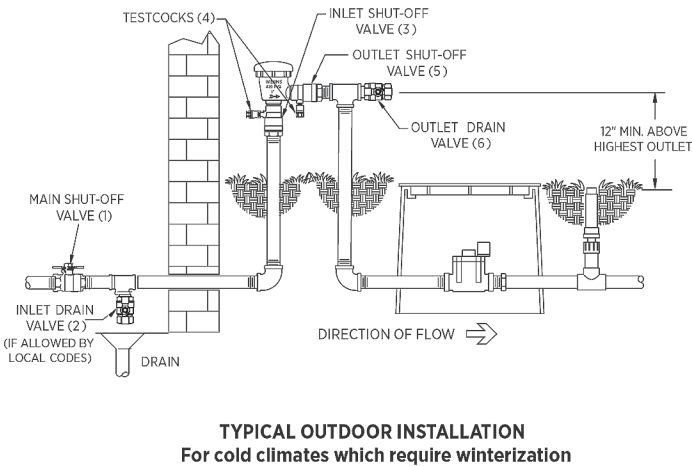
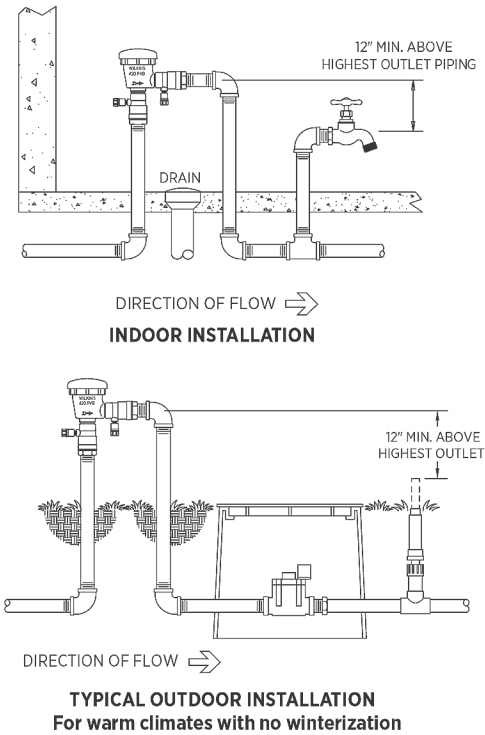


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Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be installed in accordance with the manufacturers’ instructions and the latest edition of the Uniform Plumbing Code. The assembly shall be mounted at a minimum of 12” (305mm) above the highest piping or outlet downstream of the device. Install with adequate drain and sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged. A pressure vacuum breaker cannot be installed where back-pressure could occur or where spillage of water from vent could cause damage.

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



Installation and Maintenance Instructions - Model 420XL

Specifications

The Pressure Vacuum Breaker shall be certified to NSF/ANSI/CAN 372, ASSE® Listed 1020, and supplied with full port ball valves. The main body shall be low lead bronze (ASTM B 584), the loaded-air inlet shall use a silicone elastomer spring and seat disc. The assembly shall include an integral relief valve. The entire assembly shall be accessible for maintenance and testing without removing the device from the line. The Pressure Vacuum Breaker shall be a WILKINS Model 420XL.