Model 460XL

Spill Resistant Pressure Vacuum Breaker Assembly

TAG

Application

Ideal for use where Lead-Free* valves are required. Designed for installation on indoor and outdoor point of use applications to protect against backsiphonage of contaminated water into the water supply. During start-up and operation a separate diaphragm seals the air inlet from the water supply preventing spillage. The assembly is designed for use under constant pressure and provides protection where a potential health hazard exists.



3/4" 460XL

Standards Compliance

- ASSE® Listed 1056
- cUPC® Listed
- CSA® Certified B64.1.3
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- Meets the requirements of NSF/ANSI/CAN 61 and 372*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Features

Sizes	3/8", 1/2", 3/4", 1"
Maximum working water pressure	150 PSI
Maximum working water temperature	180°F
Hydrostatic test pressure	300 PSI
Threaded connections	ANSI B1.20.1

Replaceable thermoplastic modular cartridge

Spill resistant feature for indoor use

Materials

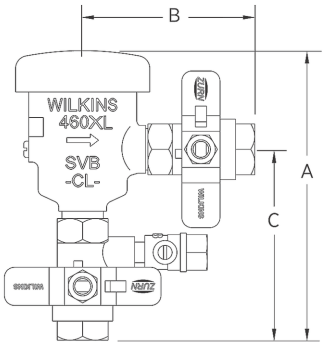
Main Valve Body	Cast Bronze ASTM B584
Elastomers	Silicone (FDA approved)
	Buna Nitrile
Polymers	Polypropylene (FDA Approved)
	POM Acetal (Delrin®)
Springs	300 series Stainless Steel

Accessories

- Repair Kits (3/8" - 1")
- Water Hammer Arrestor 1260XL
- Quick Test Fitting Set QT-SET

Dimensions & Weights (do not include pkg.)

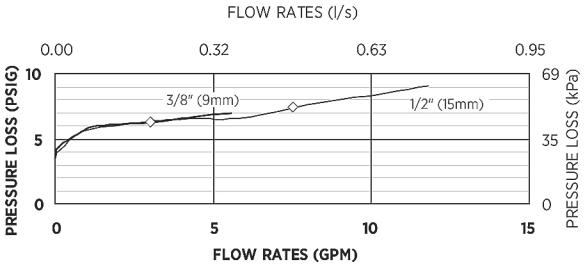
MODEL SIZE		DIMENSIONS (approximate)						WEIGHT	
		A		B		C			
in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/8	9	5 5/16	135	3 1/8	79	3 3/8	86	2.0	0.91
1/2	15	5 11/16	144	3 3/8	86	3 3/4	95	2.1	0.95
3/4	20	7 1/2	190	4 1/4	108	4 1/2	114	3.8	1.72
1	25	7 15/16	200	5	127	5	127	5.0	2.27



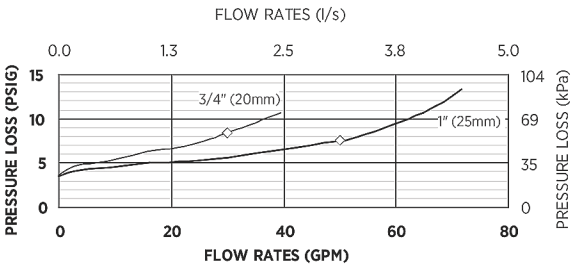
Flow Characteristics

◇ Rated Flow (established by approval agencies)

MODEL 460XL 3/8" & 1/2" (STANDARD & METRIC)



MODEL 460XL 3/4" & 1" (STANDARD & METRIC)

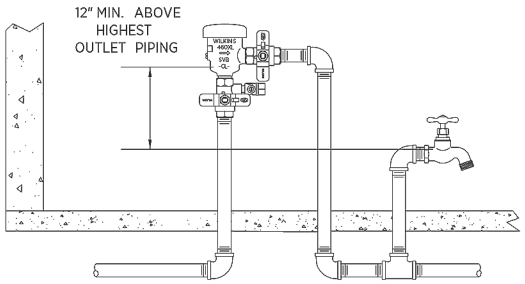


Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

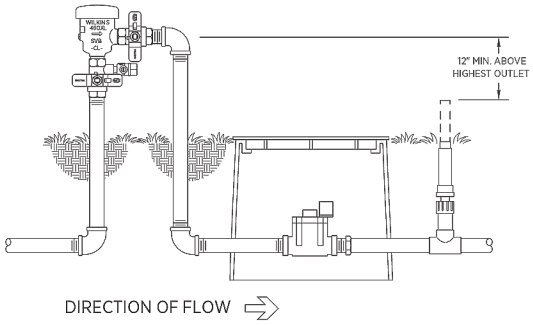
Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be installed in accordance with the manufacturers' instructions and the latest version of the Uniform Plumbing Code. The critical level mark on the assembly shall be mounted at a minimum of 12" (305mm) above the highest downstream piping or outlet. Install with sufficient side clearance for testing and maintenance. The installation shall insure that no part of the assembly can be submerged. A spill-resistant pressure vacuum breaker cannot be installed where back-pressure could occur.

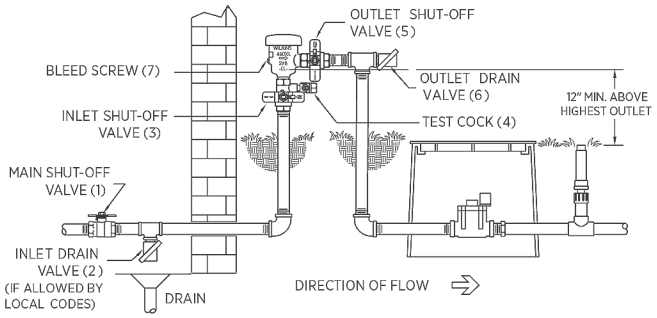
Capacity thru Schedule 40 Pipe				
Pipe size	**5 ft/sec**	**7.5 ft/sec**	**10ft/sec**	**15ft/sec**
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



INDOOR INSTALLATION



TYPICAL OUTDOOR INSTALLATION
For warm climates with no winterization



TYPICAL OUTDOOR INSTALLATION
For cold climates which require winterization

Installation and Maintenance Instructions - Model 460XL

Specifications

The Spill-Resistant Pressure Vacuum Breaker shall be certified to NSF/ANSI/CAN 61 and 372, shall be ASSE® 1056 Listed, and supplied with full port ball valves. The assembly shall utilize a low lead bronze (ASTM B 584) main body and an integrated modular check and float assembly made from thermoplastics. Springs shall be stainless steel. The valve shall incorporate a diaphragm to separate the air inlet from the potable water supply preventing spillage. The Spill-Resistant Pressure Vacuum Breaker shall be a Wilkins Model 460XL.