Model 475STDAR

Reduced Pressure Detector Assembly

Application

Designed for drop in replacement of Zurn Wilkins Model 475DA and new installation on water lines in fire protection systems to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 475STDAR shall provide protection where a potential health hazard exists. The Model 475STDAR is approved for applications requiring flow vertical up and vertical down (standard) or flow vertical up and vertical up (V option). Incorporates metered by-pass to detect leaks and unauthorized water use.

LEAD FREE

NSF/ANSI/CAN 61

Standards Compliance

- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (VUVD and VUVU orientations)
- ASSE® Listed 1047
- AWWA Compliant C550
- CSA® Certified B64.4
- UL® Classified
- C-UL® Classified
- FM® Approved
- Meets the requirements of NSF/ANSI/CAN 61*
- *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

By-Pass Backflow Assembly 3/4" Model 975XLD

Materials

Main valve body	304L Stainless steel
Access covers	304L Stainless steel
Internals Stainless steel,	300 Series
	NORYL™, NSF Listed
Fasteners & Springs	Stainless Steel, 300 Series
Elastomers	EPDM (FDA approved)
	Buna Nitrile (FDA approved)
Polymers	NORYL™, NSF Listed
Sensing line	Stainless steel, braided hose

Features

Sizes: 4", 6", 8", 10"

Maximum working water pressure	175 psi
Minimum working water pressure	25 psi
Maximum working water temperature	140° F
Minimum working water temperature	33° F
Hydrostatic test pressure	350 psi
End connections	
(Grooved for steel pipe)	AWWA C606
(Flanged bolt pattern)	ASME B16.42 Class 150

Options

(Suffixes can be combined)

- ☐ - with OS & Y gate valves (standard)
- ☐ LM - less water meter
- ☐ - with gpm meter (standard)
- ☐ CFM - with cu ft/min meter
- ☐ V - vertical flow up (VUVU) orientation
- ☐ G - with groove end gate valves
- ☐ FG - with flanged inlet gate connection and grooved outlet gate connection
- ☐ BG - with grooved end butterfly valves with integral supervisory switches
- ☐ BF - with flanged end butterfly valves with integral
- ☐ supervisory switches
- ☐ PI - with post indicator gate valve
- ☐ -RV - with by-pass, relief valve and shut-off valves on reverse side

Accessories

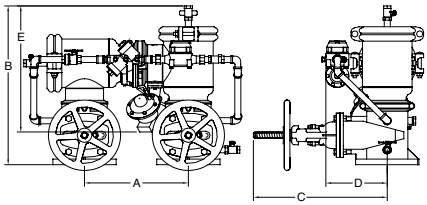
- ☐ Air gap (see spec sheet BF-AG)
- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model XT)
- ☐ Valve setter (Model FLS or MJS or MJFS)
- ☐ Gate valve tamper switch (OSY-40)
- ☐ QT-SET Quick Test Fitting Set

Relief Valve discharge port;
2 1/2" - 6" - 2.75 sq. in.
8" - 10" - 3.69 sq. in.

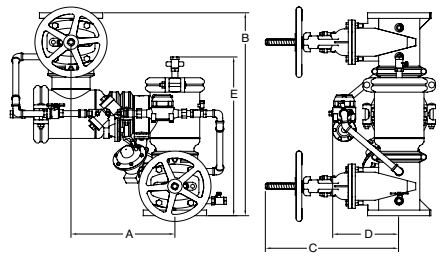
Dimensions & Weights (do not include pkg.)

SIZE	WEIGHT							
	WITH OS&Y GATES (GXF)		WITH OS&Y GATES (GXG)		WITH BFLY VALVES (GXF)		WITH BFLY VALVES (GXG)	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
4"	222	100	202	91	169	77	146	66
6"	350	159	326	148	235	107	204	93
8"	625	283	587	266	454	206	408	185
10"	878	398	824	374	567	257	509	231

475STDAR



475STDARV



SIZE		DIMENSION (approximate)																	
		A		B WITH GATE VALVES		B WITH BUTTERFLY VALVES		C OS&Y OPEN		C OS&Y CLOSED		C WITH BUTTERFLY VALVES		D		E		E WITH BUTTERFLY VALVES	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
4" 475STDAR	100	18 5/16	465	22 1/4	565	19 7/8	505	22 1/2	572	18 1/4	464	9	229	10 1/8	257	18 3/8	467	18 3/8	467
4" 475STDARV	100	18 5/16	465	29 7/8	760	25 1/8	638	22 1/2	572	18 1/4	464	9	229	10 1/8	257	22 1/4	565	19 7/8	505
6" 475STDAR	150	18 11/16	475	27 7/8	708	24 3/4	630	30 1/2	775	24 1/4	616	10 1/4	260	10 5/8	270	22 3/8	570	22 3/8	570
6" 475STDARV	150	18 11/16	475	36 1/4	921	29 1/8	740	30 1/2	775	24 1/4	616	10 1/4	260	10 5/8	270	27 7/8	708	24 3/4	630
8" 475STDAR	200	29	737	34 7/8	886	29 1/8	740	37	940	28 1/2	724	12	305	12 7/8	327	30 5/8	780	30 5/8	780
8" 475STDARV	200	29	737	40 1/4	1022	33 1/8	841	37	940	28 1/2	724	12	305	12 7/8	327	34 7/8	886	29 1/8	740
10" 475STDAR	250	29	737	38 3/4	984	35 3/4	910	45 5/8	1159	34 3/4	883	13	330	12 7/8	327	32 3/4	832	32 3/4	832
10" 475STDARV	250	29	737	45 7/8	1165	39 13/16	1011	45 5/8	1159	34 3/4	883	13	330	12 7/8	327	38 3/4	984	35 3/4	908

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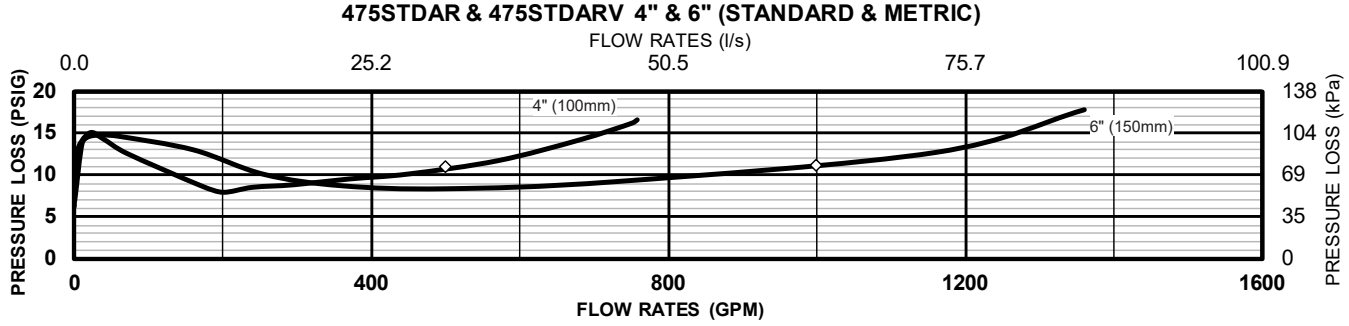
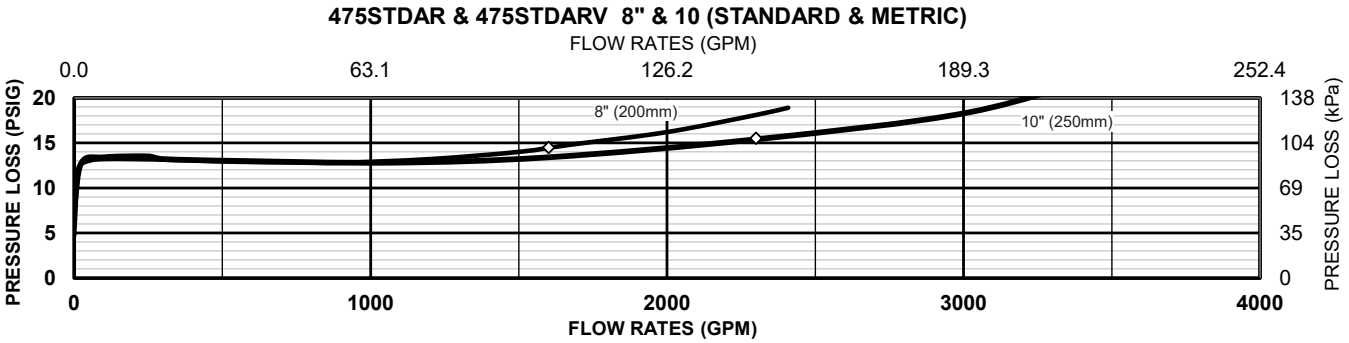
Patent zurn.com/patents

Flow Characteristics

◊Rated Flow (established by approval agencies)



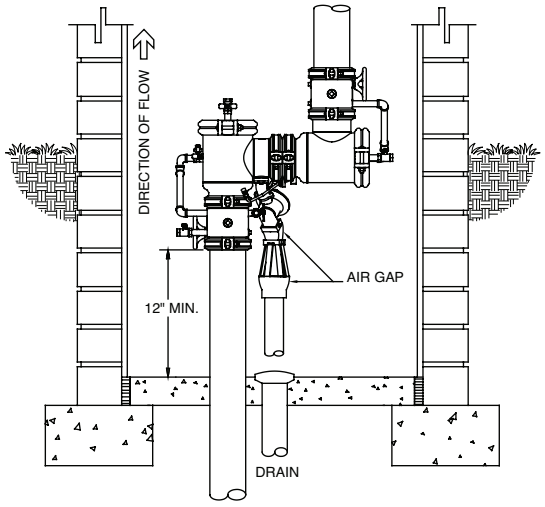


Typical Installation

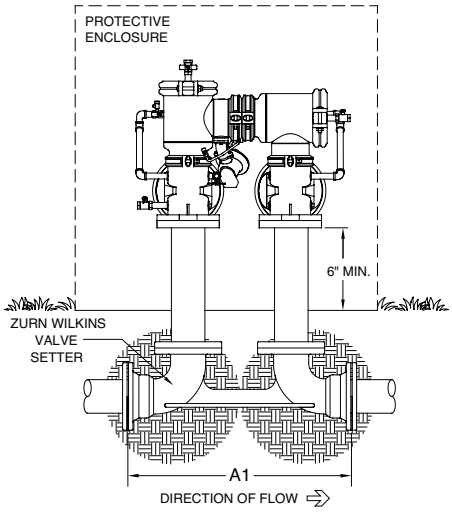
Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted above adequate drains with sufficient side clearance for testing and maintenance.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

Capacity thru Schedule 40 Pipe (GPM)				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 1/2"	75	112	149	224
3"	115	173	230	346
4"	198	298	397	595
6"	450	675	900	1351
8"	780	1169	1559	2339
10"	1229	1843	2458	3687

MODEL SIZE		DIMENSIONS (approximate)			
		A1 SETTER END TO END FLS		A1 SETTER END TO END MJS	
in.	mm	in.	mm	in.	mm
4	100	31 5/16	795	29 5/16	745
6	150	34 3/4	884	32 3/4	832
8	200	47	1194	44 5/8	1133
10	250	51	1295	47	1194



VERTICAL INSTALLATION



OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Detector Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1047, and supplied with full port OS & Y gate valves. The main body, spool, and access cover shall be 304L Stainless Steel, the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 475STDAR.

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