Model 450STDAR



Double Check Detector Assembly

Application

Designed for drop in replacement of Zurn Wilkins Model 450DA and new installation on water lines in fire protection systems to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Model 450STDAR shall provide protection where a potential health hazard does not exist. Incorporates metered by-pass to detect leaks and unauthorized water use.

Standards Compliance

(Vertical Up - Vertical Down Orientation only)

- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- ASSE® Listed 1048
- CSA® Certified B64.5
- AWWA Compliant C510 (with gates only), and C550
- UL® Classified
- · C-UL® Classified
- FM® Approved
- Meets the requirements of NSF/ANSI 61*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

By-Pass Backflow Assembly 3/4" Model 950XLD

Materials

water als	
Main valve body	304L Stainless steel
Access covers	304L Stainless steel
Internals	Stainless steel, 300 Series
	NORYL™, NSF Listed
Fasteners and springs	Stainless Steel, 300 Series
Seal ring	EPDM (FDA approved)
O-ring	Buna Nitrile (FDA approved)
Features	

Sizoo: 4" 6" 9" 10"

SIZES. 4,0,0,10	
Maximum working water pressure	175 psi
Minimum working water pressure	20 psi
Maximum working water temperature	140° F
Minimum working water temperature	33° F
Hydrostatic test pressure	350 psi
End connections (Grooved for steel)	AWWA C606
(Flanged bolt pattern)	ASME B16.42
	Class 150

Dimensions & Weights (do not include pkg.)

		WEIGHT							
SIZE		OS&Y GATE (GXF)		OS&Y GATE (GXG)			TH (GXF)	WITH BFLY (GXG)	
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
4	100	208	94	188	85	155	70	132	60
6	150	335	152	311	141	221	100	190	86
8	200	606	275	568	258	439	199	393	178
10	250	859	389	805	365	542	246	484	220



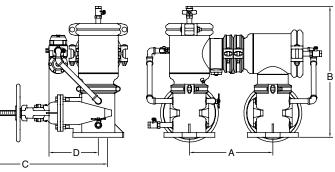
Options

(Suffixes can be combined)

- with OS & Y gate valves (standard) -
- 🗆 LM less water meter
 - with gpm meter (standard)
- with cu ft/min meter
- 🗆 G with groove end gate valves
- □ FG with flanged inlet gate connection and grooved outlet gate connection
- with grooved end butterfly valves with integral 🗆 BG supervisory switches
- □ BF with flanged end butterfly valves with integral supervisory switches
- 🗆 PI with Post Indicator Gate Valve
- with by-pass and shut-off valves on reverse side □ -RV -

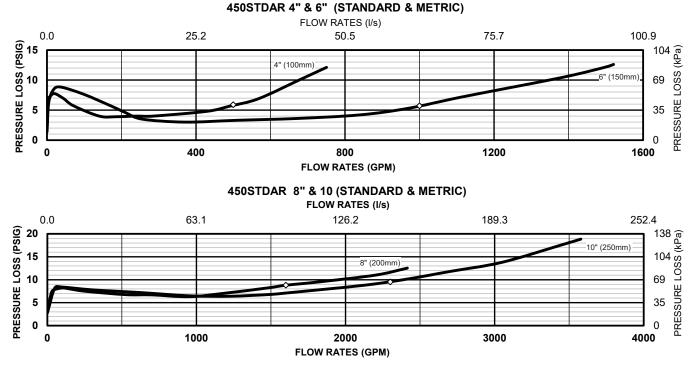
Accessories

- □ 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



		DIMENSIONS (approximate)													
SI	ZE	A		B WITH G VALV		B WITH E VALV		C OS& OPE	kΥ	C OS& CLOS	kΥ	C WITH I VALV	BFLY	D	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
4	100	18 5/16	465	22 1/4	565	19 7/8	505	22 1/2	572	9	229	9	229	10 1/8	254
6	150	18 11/16	475	27 7/8	708	24 3/4	630	30 1/2	775	10 1/2	267	10 1/4	260	10 5/8	266
8	200	29	737	34 7/8	886	29 1/8	743	37	940	12	305	12	305	12 7/8	323
10	250	29	737	38 3/4	984	35 3/4	910	45 5/8	1159	12	305	13	330	12 7/8	323

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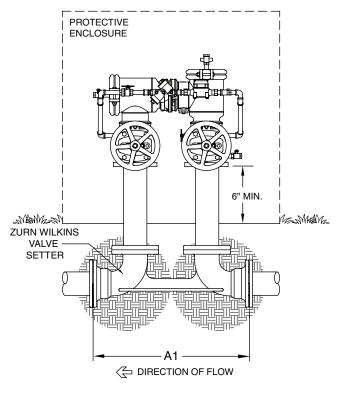


Typical Installation

Local codes shall govern installation requirements. To be installed in accordance with the manufacturer's 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	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				

		DIMENSIONS (approximate)							
MOD	EL SIZE	A1 SETT TO EN		A1 SETTER END TO END MJS					
in.	mm	in.	mm	in.	mm				
4	100	31 5/16	795	29.313	745				
6	150	34 3/4	884	32.75	832				
8	200	47	1194	44.625	1133				
10	250	51	1295	47	1194				



OUTDOOR INSTALLATION

Specifications

The Double Check Detector Backflow Prevention Assembly shall be certified to NSF/ANSI 61, ASSE® Listed 1048, and supplied with full port gate valves. The main body, spool, and access cover shall be 304L Stainless Steel, the seat ring and check valve shall be NoryI[™] (NSF Listed), the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first and second check valves shall be accessible for maintenance without removing the device from the line. The Double Check Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 450STDAR.