

# **Model 450STR**

## **Double Check Valve Assembly**

#### **Application**

Designed for drop in replacement of Zurn Wilkins Model 450 and new installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 450STR shall provide protection where a potential health hazard does not exist. Ideal for use where lead-free\* valves are required.

#### **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 1015
- AWWA Compliant C510 (with gates only), and C550
- UL® Classified
- · C-UL® Classified
- · FM® Approved
- CSA® Certified B64.5
- Meets the requirements of NSF/ANSI/CAN 61\* \*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

#### **Materials**

304L Stainless Steel Main valve body 304L Stainless Steel Access covers Stainless Steel, 300 Series Internals

NORYL™, NSF Listed

Stainless Steel, 300 Series Fasteners and springs EPDM (FDA approved) Seal ring Buna Nitrile (FDA approved) O-ring

#### **Features**

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

Maximum working water pressure 175 psi Minimum working water pressure 20 psi 140° F Maximum working water temperature 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

#### Dimensions & Weights (do not include pkg.)

	Zimenerene a treigine (ao met merado pilgi)												
		WEIGHT											
SIZE		NRS GATE VALVES FLANGED		NRS GATE VALVES GROOVED		OS&Y GATE VALVES FLANGED		OS&Y GATE VALVES GROOVED		BUTTERFLY VALVES FLANGED		BUTTERFLY VALVES GROOVED	
in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
4	100	174	79	154	70	200	91	180	81	147	67	124	56
6	150	295	134	271	123	327	148	303	138	213	97	182	83
8	200	548	248	510	231	594	269	556	252	425	193	379	172
10	250	761	345	707	320	847	384	793	359	534	242	476	216





**Options** (Suffixes can be combined)

with NRS shut-off valves (standard)

□ G with groove end connections

□ FG with flanged inlet connection and grooved outlet connection

□ OSY with OS & Y gate valves

□ BG with grooved end butterfly valves with integral

supervisory switches

with Post Indicator Gate Valve □ PI

□ BF with flanged end butterfly valves with integral

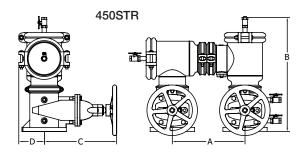
supervisory switches

with shut-off valves on reverse side □ -RV

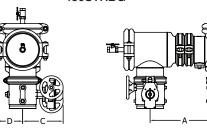
\*New Connected Product. Search ZCSM-PF on Zurn.com for details.

#### **Accessories**

- ☐ Connected Pressure Monitor (Model ZCSM-PF)\*
- ☐ 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



#### 450STRBG



			DIMENSION (approximate)															
SIZE		А		B WITH GATE VALVES		I BUTTERFLY I			OS&Y (		C OS&Y CLOSED		C NRS		C WITH BUTTERFLY VALVES		D	
in.	mm	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	14 1/2	368	9	229	4 3/4	119	
6	150	18 11/16	475	27 7/8	708	24 3/4	630	30 1/2	775	10 1/2	267	18	457	10 1/4	260	6 1/4	158	
	000	29	737	34 7/8	886	29 1/8	743	37	940	12	305	22	560	12	305	8 7/8	223	
8	200	29	131	34 1/0	000	29 1/0	145	01	340	12	000		500	12	000	0 1/0	220	

Zurn Industries, LLC | Wilkins

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766

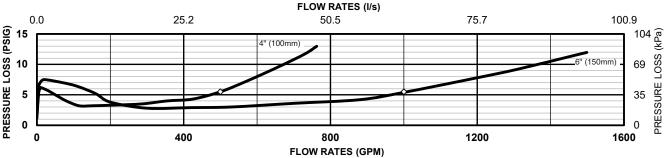
In Canada | Zurn Industries Limited

7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

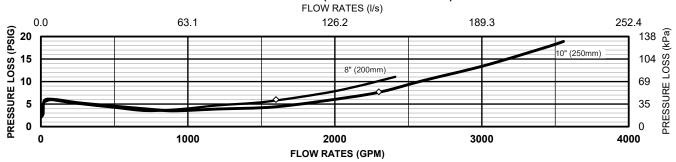
www.zurn.com

Date: 7/20 Document No. BF-450STR Patent No. 5,913,331 Product No. Model 450STR

# 450STR 4" & 6" (STANDARD & METRIC)



### 450STR 8" & 10 (STANDARD & METRIC)

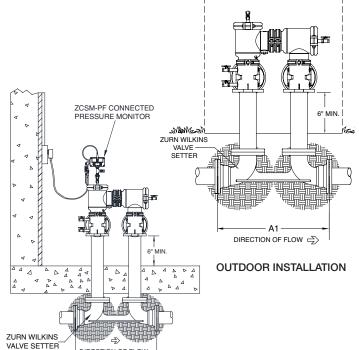


### **Typical Installation**

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	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						

		DIMENSIONS (approximate)							
MODE	EL SIZE	A1 SETTER END		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				



PROTECTIVE

INDOOR INSTALLATION (450STR with ZCSM-PF Connected Pressure Monitor Accessory)

DIRECTION OF FLOW

#### **Specifications**

The Double Check Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1015, 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 NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks shall be accessible for maintenance without removing the device from the line. The Double Check Backflow Prevention Assembly shall be a ZURN WILKINS Model 450STR.