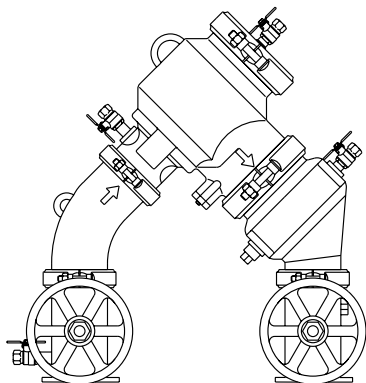


Model 450

Double Check Valve Assembly
(Patent No. 5,913,331)



FEATURES

Sizes: ☐ 4" ☐ 6"

Maximum working water pressure	175 psi
Maximum working water temperature	140° F
Hydrostatic test pressure	350 psi
End connections	
(Grooved for steel)	AWWA C606
(Flanged)	ANSI B16.1
	Class 125

OPTIONS

(Suffixes can be combined)

- ☐ - with NRS shut-off valves (standard)
- ☐ FS - with cast iron wye type strainer
- ☐ FSC - with epoxy coated wye type strainer
- ☐ G - with groove end gate valves
- ☐ FG - with flanged inlet gate connection and grooved outlet gate connection
- ☐ L - less shut-off valves (grooved body connections)
- ☐ OSY - with OS & Y gate valves

ACCESSORIES

- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model WXTP)
- ☐ Valve setter (Model FLS or MJS or MJMJS)
- ☐ Flange by Groove adapter (FLA)
- ☐ Gate valve tamper switch (OSY-40)

APPLICATION

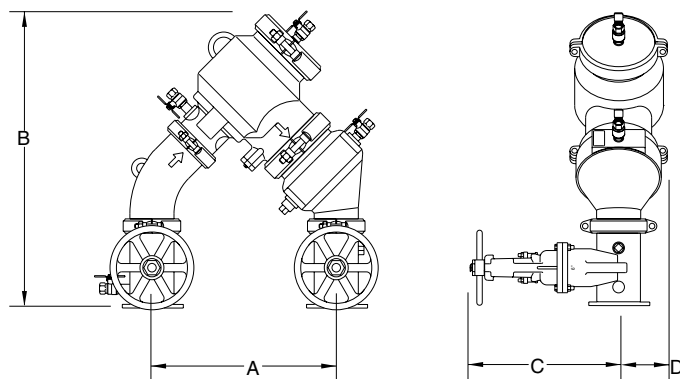
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Assembly shall provide protection where a potential health hazard does not exist.

STANDARDS COMPLIANCE

- ☐ ASSE® Listed 1015
- ☐ IAPMO® Listed
- ☐ CSA® Certified
- ☐ AWWA Compliant
- ☐ UL® Classified
- ☐ C-UL® Classified
- ☐ FM® Approved
- ☐ Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California

MATERIALS

Main valve body	Ductile Iron ASTM A 536 Grade 4
Access covers	Ductile Iron ASTM A 536 Grade 4
Coatings	FDA Approved fusion epoxy finish
Fasteners	Stainless Steel, 300 Series
Elastomers	EPDM (FDA approved)
	Buna Nitrile (FDA approved)
Polymers	NORYL™, NSF Listed
Springs	Stainless Steel, 300 Series

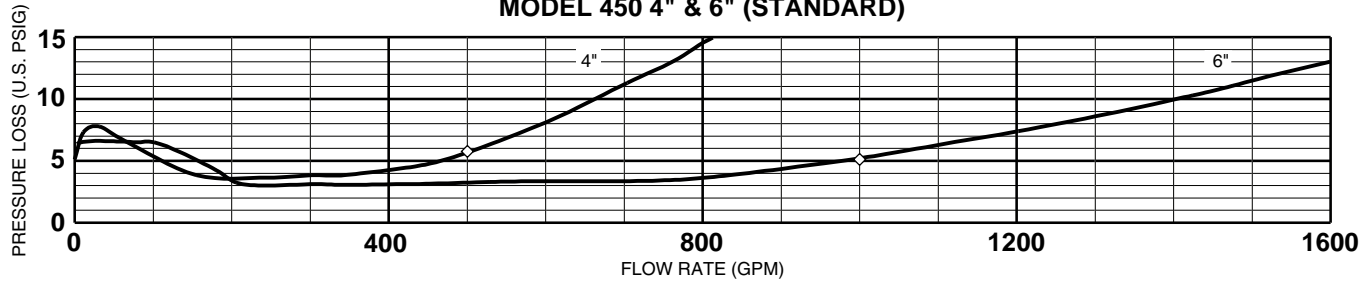


DIMENSIONS & WEIGHTS (do not include pkg.)

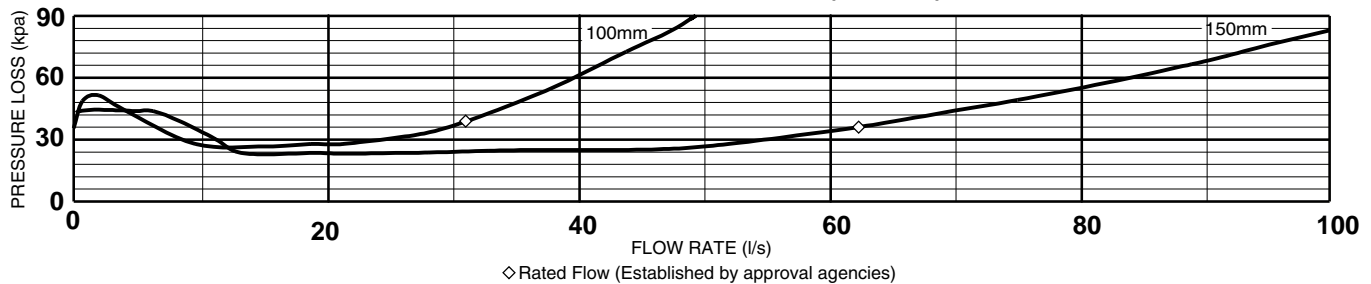
MODEL SIZE	DIMENSIONS (approximate)																		WEIGHT						
	A		A1 SETTER END TO END		A1 SETTER END TO END		B WITH GATE		B LESS GATE		C OS&Y OPEN		C OS&Y CLOSED		C NRS GATES		D		LESS GATE VALVES		NRS GATE VALVES		OS&Y GATE VALVES		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg	lbs.	kg	
4	100	18	465	31 5/16	795	29 5/16	745	30	762	21	533	22 3/4	578	18 1/4	460	14 3/4	375	5	127	90	40.9	270	122.6	280	127
6	150	18	478	34 3/4	884	32 3/4	832	35 1/2	902	25	635	30 1/8	765	23 3/4	603	19	483	6	152	159	72.2	443	201	459	208.4

FLOW CHARACTERISTICS

MODEL 450 4" & 6" (STANDARD)



MODEL 450 100mm & 150mm (METRIC)

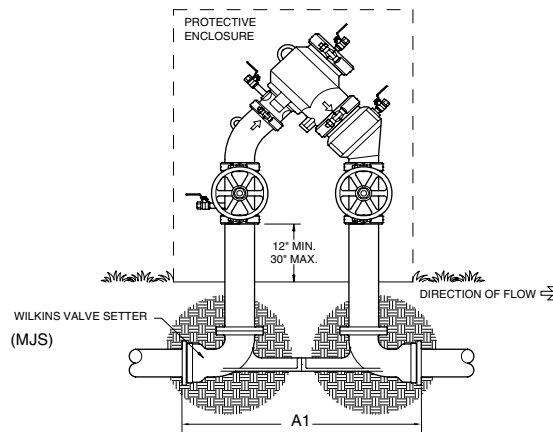


TYPICAL INSTALLATION

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 at a minimum of 12" (305mm) and a maximum of 30" (762mm) 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



OUTDOOR INSTALLATION

SPECIFICATIONS

The Double Check Valve Backflow Preventer shall be ASSE® Listed 1015, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536 Grade 4), 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. Center stem guided design shall incorporate two torsion springs to bias the check in the closed position. The checks shall be accessible for maintenance without removing the device from the line. The Double Check Valve Backflow Preventer shall be a WILKINS Model 450.