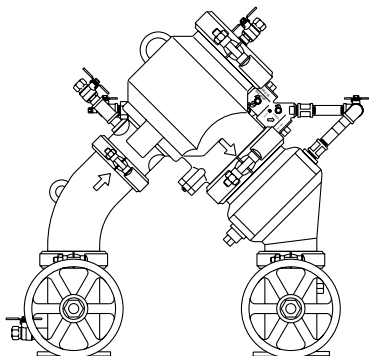


Model 450DA

Double Check Detector 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 OS & Y gate valves (standard)
- ☐ L - less shut-off valves (grooved body connections)
- ☐ LM - less water meter
- ☐ - with remote reading 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
- ☐ FS - with cast iron wye type strainer
- ☐ FSC - with epoxy coated wye type strainer

ACCESSORIES

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

APPLICATION

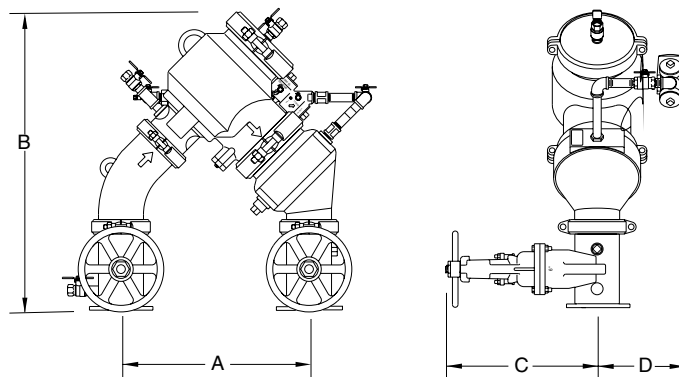
Designed for installation on potable water lines in fire sprinkler systems to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Assembly shall provide protection where a potential health hazard does not exist.

STANDARDS COMPLIANCE

- ☐ ASSE® Listed 1048
- ☐ 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

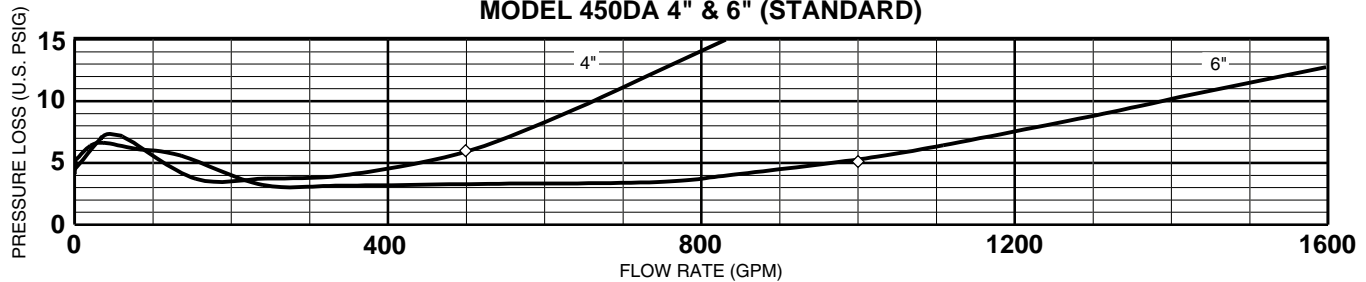


DIMENSIONS & WEIGHTS (do not include pkg.)

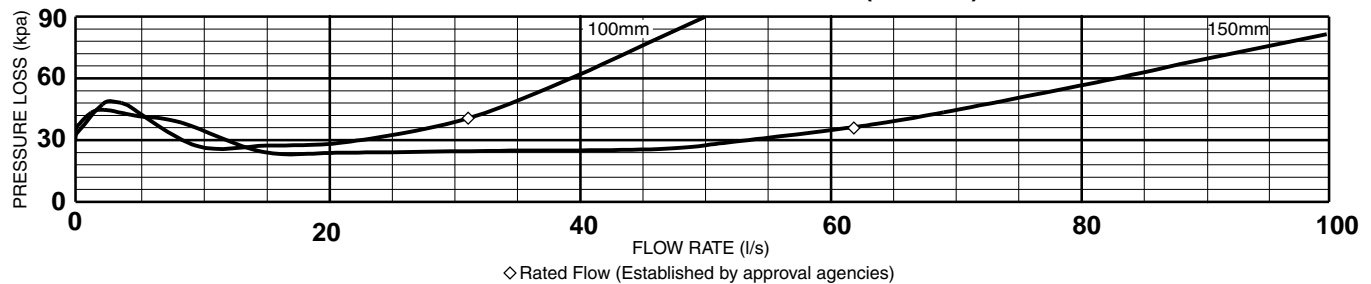
MODEL SIZE		DIMENSIONS (approximate)																WEIGHT			
		A		A1 SETTER END TO END FLS		A1 SETTER END TO END MJS		B WITH GATE VALVES		B LESS GATE		C OS&Y OPEN		C OS&Y CLOSED		D		LESS GATE VALVES		OS&Y GATE VALVES	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbs.	kg
4	100	18 5/16	465	31 5/16	795	29 5/16	745	30	762	21	533	22 3/4	578	18 1/4	460	8	203	105	47.7	295	134
6	150	18 13/16	478	34 3/4	883	32 3/4	832	35 1/2	902	25	635	30 1/8	765	23 3/4	603	10	254	174	79	474	215

FLOW CHARACTERISTICS

MODEL 450DA 4" & 6" (STANDARD)



MODEL 450DA 100mm & 150mm (METRIC)

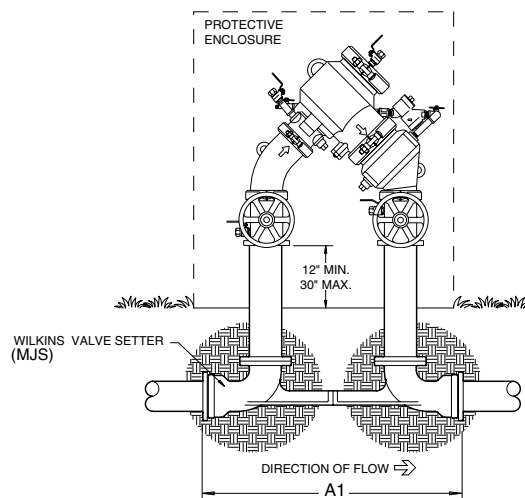


TYPICAL INSTALLATION

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 Detector Backflow Preventer shall be ASSE® Listed 1048 and supplied with full port OS & Y 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. The checks shall be accessible for maintenance without removing the device from the line. The Double Check Detector Backflow Preventer shall be a WILKINS Model 450DA.