Single Detector Check Valve Specification Sheet

Model SDC (3”-8”)

Flomatic Corporation

FEATURES:

Sizes: □3” □4” □6” □8”

Max. working pressure:	175 PSI (1200 kPa)
Max. working temperature:	140°F (60°C)
Hydrostatic Test Pressure:	350 PSI (2400 kPa)
Pipe connections:	
Grooved (cut for steel pipe):	AWWA C606
Flanged:	ANSI B16.1 CL.125

MATERIALS:

Valve Body:	Ductile Iron
Access Cover:	Ductile Iron
Polymers:	Noryl™, NSF Listed
Elastomers:	Silicone, Buna-N (FDA approved)
Springs:	Stainless Steel
Coating:	FDA approved fusion epoxy

OPTIONS:

- □ G – Grooved pipe connection
- □ D – with by-pass detector assembly
- □ E – Australian flanged connection
- □ 1 – less NRS gate valves (ex: B9017-replace 3rd number with a 1)
- □ OS&Y – with OS&Y valves

STANDARDS COMPLIANCE:

The Single Detector Check backflow preventer shall meet the requirements of the following standards: ***UL 312, FM-1045 4“ & 6” only***

Complies with California Low Lead Plumbing Laws **IAPMO Certificate 6249**

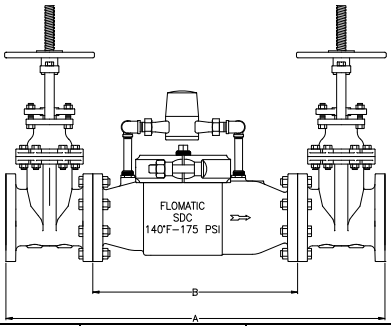
FLOMATIC SPECIFICATIONS:

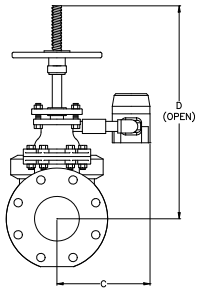
Single Detector Check Valve Assembly backflow preventer shall protect against backflow by either backpressure or backsiphonage from a cross-connection between potable water systems and substances that are non-health hazards in fire sprinkler systems.

The device shall be constructed from ductile iron (65-45-12). It shall consist of one (1) spring-loaded, center stem, guided check valve. The device shall have a cast ductile iron body, with a single access cover utilizing a grooved pipe coupling. The assembly shall have two (2) NPT/BSP tapped holes located upstream and downstream of the check valve for installation of the by-pass assembly (including a single check valve, shutoff valve and water meter) for detecting low flow.

The seat of each check valve shall be constructed from Noryl™ or bronze and shall be replaceable. The check valve shall be held in place by a Noryl™ or Stainless Steel clip.

The backflow preventer shall be suitable for **supply pressure up to 175 psi and water temperatures from 33° to 140° F.**





Size		Part #	A		B		C		D		Wgt (Flanged)		Wgt (Grooved)		Wgt of Bypass	
Inch	mm		Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg	lbs	kg
3	80	B9006	32.0	813	16.0	405	8	200	18.9	480	46	21	32	15	4	2
4	100	B9007	34.5	876	16.5	420	8.5	215	22.8	578	65	29	41	19	7	3
6	150	B9009	43.5	1105	22.5	570	10	250	30.1	765	120	54	90	41	9	4
8	200	B90010	49.5	1257	26.5	673	12	300	37.8	960	NA	NA	185	84	11	5

Flomatic Corporation, 15 Pruyn’s Island, Glens Falls, New York 12801
Phone: 518-761-9797 Fax: 518-761-9798 www.flomatic.com

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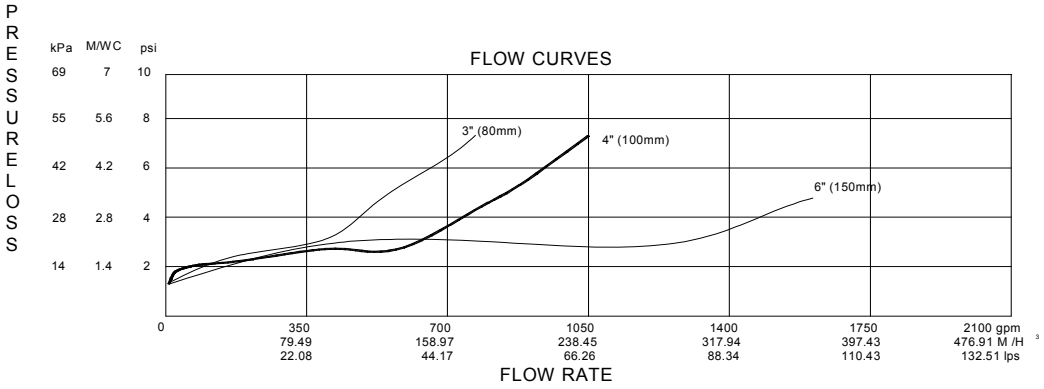
Specification Sheet SDC-V

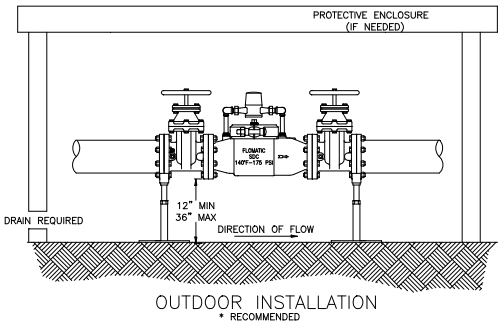
FLOW CHARACTERISTICS

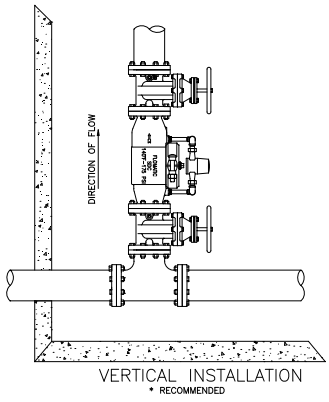


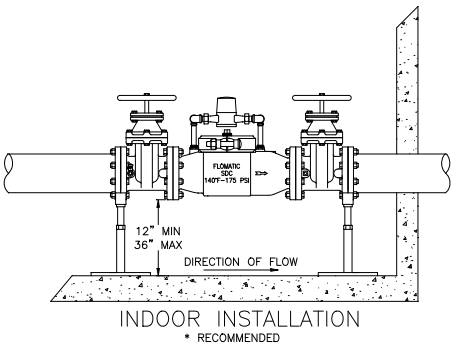
TYPICAL INSTALLATION

Model SDC Single Detector Check Valve Backflow Preventers should be installed with adequate clearance and easy accessibility for testing and maintenance and must be protected from freezing. Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum clearance of 12” (305mm) between port and floor or grade. The assembly shall have 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. Thermal water expansion can cause excessive pressure. Excessive pressure situations should be eliminated to avoid possible damage to the system and assembly.

Capacity thru Schedule 40 Pipe (GPM)				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 ½”	**75**	**112**	**149**	**224**
3”	**115**	**173**	**230**	**346**
4”	**198**	**298**	**397**	**595**
6”	**450**	**675**	**900**	**1351**
8”	**780**	**1169**	**1559**	**2339**







WARRANTY: Flomatic valves are guaranteed against defects of materials or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to Flomatic within 12 months from the date of purchase, it will be repaired or replaced free of charge. Flomatic Corporations’ liability shall be limited to our agreement to repair or replace the valve only.