



**STANDARDS COMPLIANCE:**

- ASSE® Listed 1015
- CSA® Listed
- AWWA Compliant C510
- City of Los Angeles Approved
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California
- NYC Dept of Building MEA 3223-93-M Vol. 1



**FEATURES:**

Sizes:  3/4"  1"  1 1/2"  2"

Max. working pressure: 175 PSI (1200 kPa)  
 Max. working temperature: 180°F (82°C)  
 Hydrostatic Test Pressure: 350 PSI (2400 kPa)

**MATERIALS:**

Valve Body: Unleaded Bronze  
 Access Cover: Unleaded Bronze  
 Polymers: Noryl™, NSF Listed  
 Elastomers: Silicone  
 Springs: Stainless Steel

**OPTIONS:**

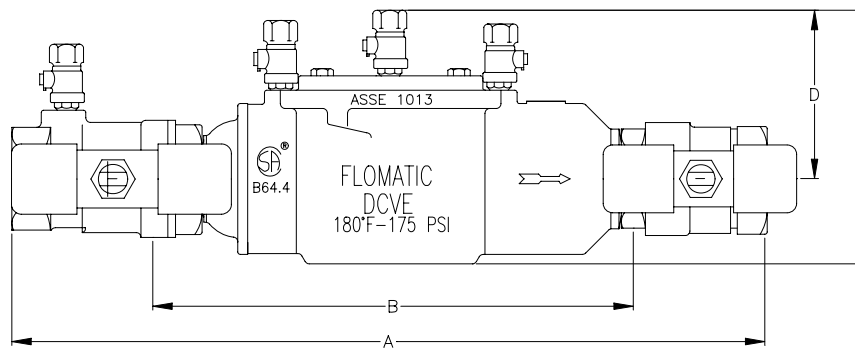
- 1 – less ball valves (ex B9110E replace 3<sup>rd</sup> number)
- UE – with union end ball valves
- S – with bronze “Y” type strainer

**FLOMATIC SPECIFICATIONS:**

Double 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.

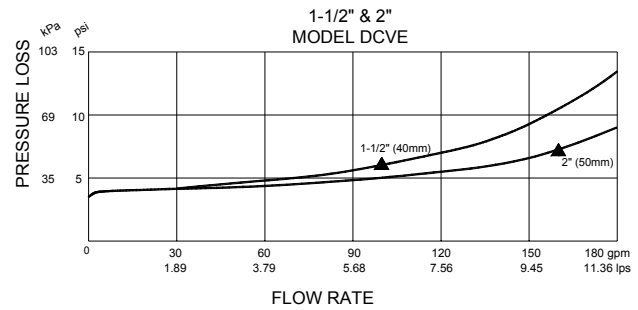
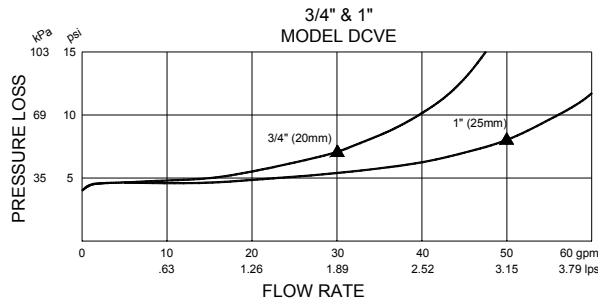
The device shall be constructed from unleaded bronze with less than 0.05% lead content. It shall consist of two (2) mechanically independent, spring loaded, center stem, guided check valves. The device shall have a cast unleaded bronze body, with a single access cover. The assembly shall have four (4) vertical test cocks and two shut off valves which are quarter-turn, full-port, resilient seated and ball type which are constructed with low lead material, less than 0.25% lead content (ASTM C90500) or approved equal.

The seat of each check valve shall be constructed from Noryl™ and shall be replaceable. The check valves shall be held in place by stainless steel slips and the check valve assemblies shall be non-interchangeable with silicone discs.



Size		Part #	A		B		C		D		Width		Wgt with BV		Wgt less BV	
Inch	mm		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg
3/4	20	B9100E	12	305	7-5/8	194	5	127	3-1/2	89	3-1/4	83	7.25	3.5	5.5	2.5
1	25	B9101E	13	331	7-5/8	194	5	127	3-1/2	89	3-1/4	83	8.25	3.75	5.5	2.5
1-1/2	40	B9103E	19	483	12-1/2	318	6-1/2	165	4-3/8	111	4-3/4	121	23.5	10.75	17	7.75
2	50	B9104E	20	508	12-1/2	318	6-1/2	165	4-3/8	111	4-3/4	121	28	12.75	17	7.75

**FLOW CHARACTERISTICS**

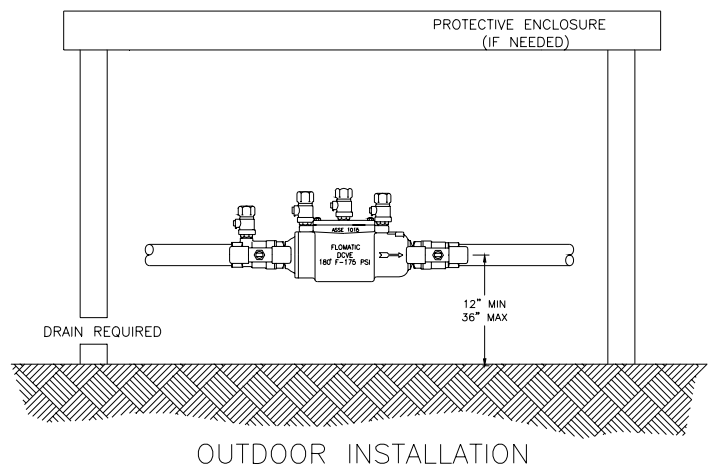
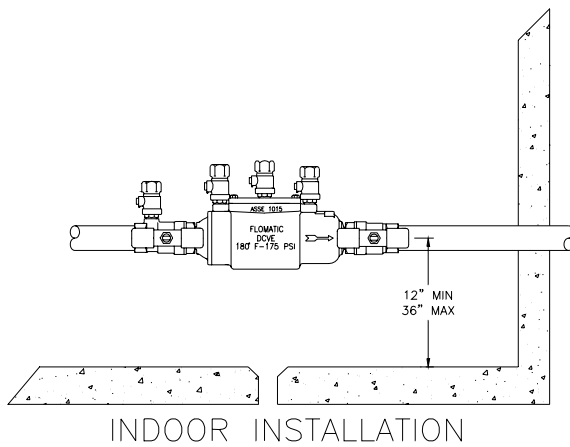


▲ **RATED FLOW**  
(Established by Approval Agencies)

**TYPICAL INSTALLATION**

Model DCVE Double 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
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	98	157



Danfoss 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 Danfoss Flomatic within 12 months from the date of purchase, it will be repaired or replaced free of charge. Danfoss Flomatics' liability shall be limited to our agreement to repair or replace the valve only.