

Double Check Backflow Preventer





Classified by Underwriters' Laboratories Inc.® as to friction Loss and Body Strength Only. (3" Through 10")

- Meets AWWA Standard C510-89
- Extremely Low Head Loss
- All Parts are Corrosion Resistant
- Designed for Easy Field Testing

The Model D-4 Double Check Valve Assembly is a reliable means of backflow protection for intermediate degrees of hazard. The assembly is carefully constructed of corrosion resisting materials and consists of two independently acting spring-loaded toggle lever check valves, two shut-off valves and four test cocks.

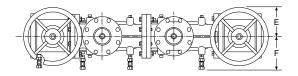
The toggle lever check valves are uniquely designed to provide drip tight closure against reverse flow, low pressure drop at maximum flow capacity. The spring-loaded toggle causes the valve to seal against a higher inlet pressure than outlet pressure when there is no flow.

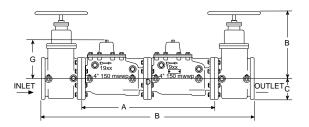
The internal parts are rugged, simple, and direct, with ample clearances to insure long trouble-free operation, even in very hard water and over prolonged periods of time. They are also readily accessible without removing valves from the line.

D-4 Dimensions (In Inches)

Valve Size	2" Screwed	2 1/2"	3"	4"	6"	8"	10"
Α	20.06	26.06	26.06	30.06	40.06	50.81	59.56
В	33.16	42.19	42.19	48.19	61.19	73.94	85.69
С	5.25	13.12	15.25	17.50	21.00	24.85	29.38
D	_	3.50	3.75	4.50	5.50	6.75	8.00
Е	4.00	4.00	4.50	5.00	6.00	8.00	10.00
F	5.00	6.50	6.50	7.62	9.50	10.25	11.38
G	5.25	7.25	7.25	8.31	11.00	13.00	15.75

This assembly is required to be installed in a horizontal position Adequate space must be allowed for maintenance work and testing.





Specifications

Valve Sizes:

2", 2 1/2", 3", 4", 6", 8",10"

125 lb ANSI B 16.1

End Details:

2" Screwed: 2-11 1/2NPT 2"-10" Flanged: **Maximum Working Pressure:**

Maximum: 175 psi Hydrostatic Test: Pressure: 350 psi Max. Temperature:

to 110° F

Fluid: Water

Materials:

Check Valve Body and Cover:

2" Bronze ASTM B-61

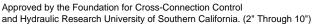
2 1/2" and larger Main Valve Body and Cover:

Cast iron ASTM A-126 interior and exterior epoxy coated AWWA C550

Check Valve Trim: Bronze ASTM B-61

Shut-off Valves:

Resilient Seat Non-Rising Stem Type, Epoxy Coated Interior & Exterior AWWA C560



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Model D-4 **Double Check Backflow Preventer Flow Curves**



Meter Rated Flow*

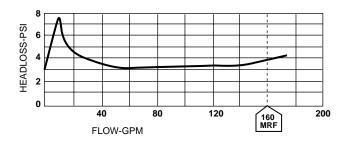


150% of Meter Rated Flow



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2" Model D-4



6" Model D-4

500 MRF

400

4" Model D-4

600

750

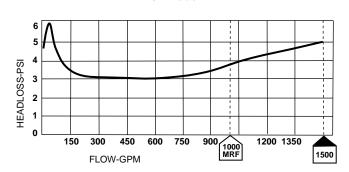
1000

10

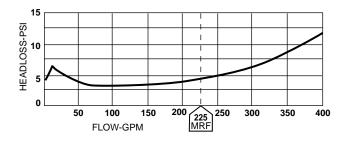
200

FLOW-GPM

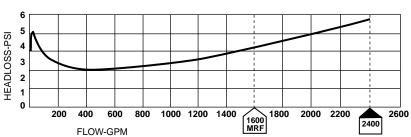
HEADLOSS-PSI



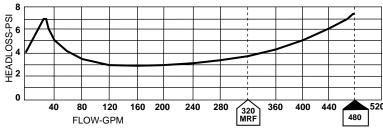
2-1/2" Model D-4



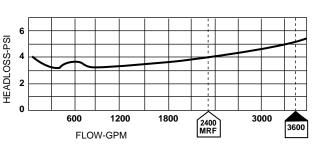
8" Model D-4



3" Model D-4



10" Model D-4



Flow curves generated by the Foundation for Cross-Connection Control and Hydraulic Research University of Southern California. *"Meter Rated Flow" Values adopted by the American Water Works Association and the New England Water Works Association.

3" thru 10" sizes are UL Classified.

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E-D-4 (R-11/01)