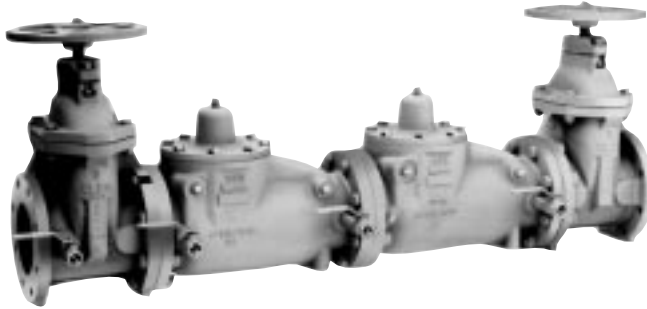




Double Check Backflow Preventer

- 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.

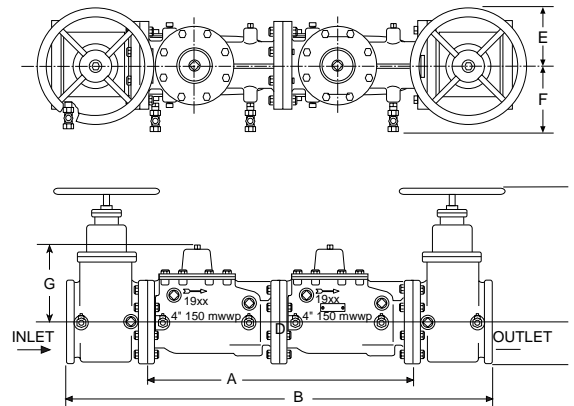
The internal parts are rugged, simple, and direct, with ample clearances to insure long trouble-free operation, even in very hard water and over prolonged periods of time. They are also readily accessible without removing valves from the line.



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

Dimensions (In Inches)

Valve Size	2" Screwed	2 1/2"	3"	4"	6"	8"	10"
A	20.06	26.06	26.06	30.06	40.06	50.81	59.56
B	33.16	42.19	42.19	48.19	61.19	73.94	85.69
C	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
E	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"

End Details:

2" Screwed:
2-11 1/2NPT
2"-10" Flanged:
125 lb ANSI B 16.1

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

Approved by the Foundation for Cross-Connection Control and Hydraulic Research University of Southern California. (2" Through 10")

Classified By Underwriters' Laboratories Inc.® as to Friction Loss and Body Strength Only.



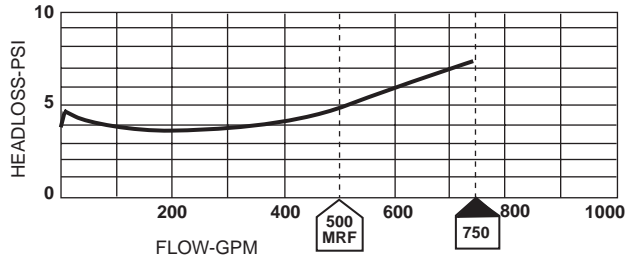
**Model D-4
Double Check
Backflow Preventer Flow Curves**

 Meter Rated Flow*

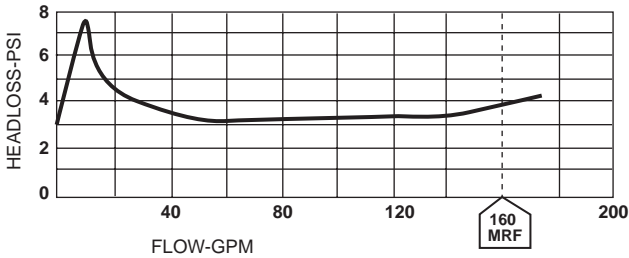
 150% of Meter Rated Flow

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

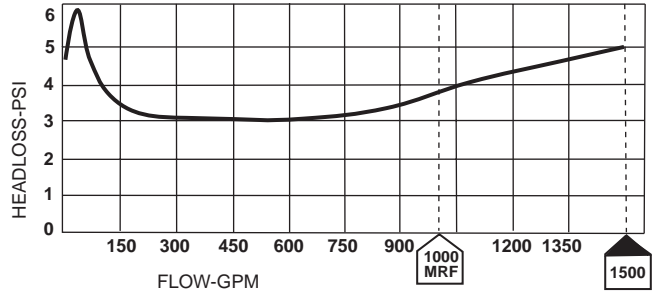
4" Model D-4



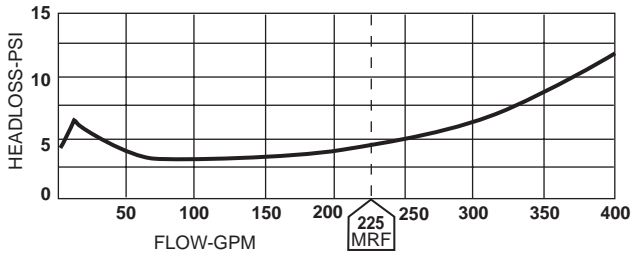
2" Model D-4



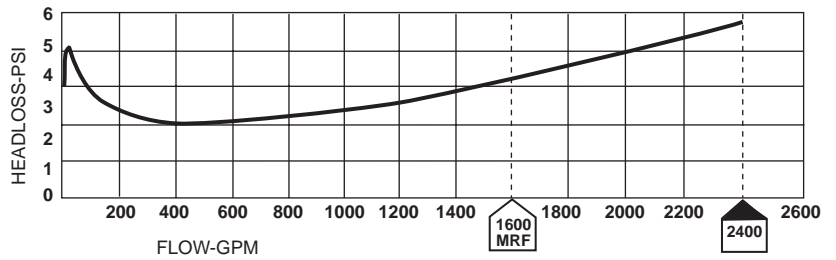
6" Model D-4



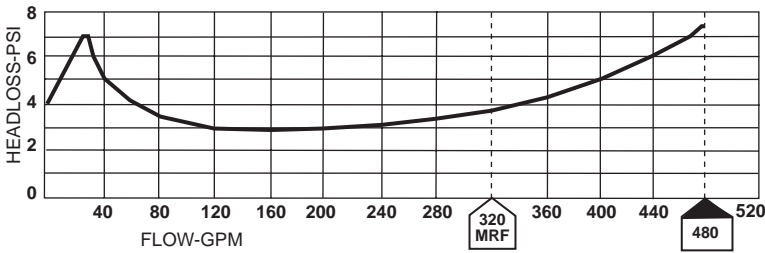
2-1/2" Model D-4



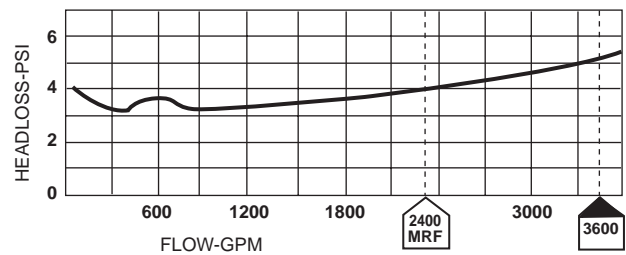
8" Model D-4



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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