American Backflow Specialties
(800) 66-BKFLO (619) 527-2525 Fax: (619) 527-2527
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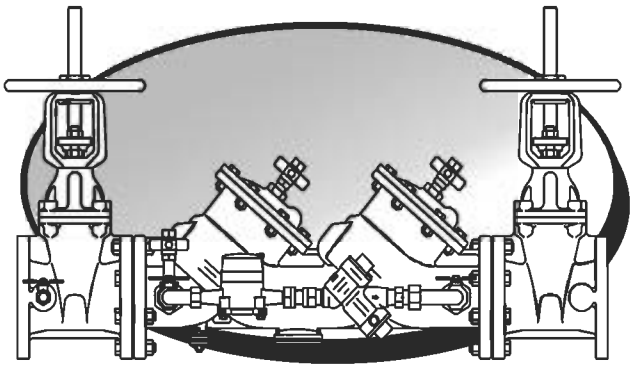


CLA-VAL™

Model DD8L
Double Check Detector Assembly
2-1/2" to 8"

FEATURES

- Approved for horizontal or vertical installation
- Fire service backflow prevention
- Detects sprinkler system leaks
- Detects unauthorized usage
- Durable construction & low head loss

SPECIFICATIONS

The mainline of the double detector check backflow preventer assemblies include two independently acting, spring-loaded approved check valves mounted between two tightly closing resilient seated shutoff valves, and the necessary four resilient seated test cocks.

In a nonflow condition check valves in the by-pass and mainline units are closed. Flows from zero to approximately 5 GPM will flow through the by-pass. This operation ia accomplished by the pressure drop across the by-pass line from the mainline check valve.Therefore, any flow through the fireline system is measured through the by-pass meter. Flows over 5 GPM will go through the mainline assembly and the by-pass line.

APPLICATIONS

Double check detector assemblies are used to prevent backflow of objectionable (non-toxic) pollutants. They may be installed under continuous pressure service and may be subjected to back-pressure.

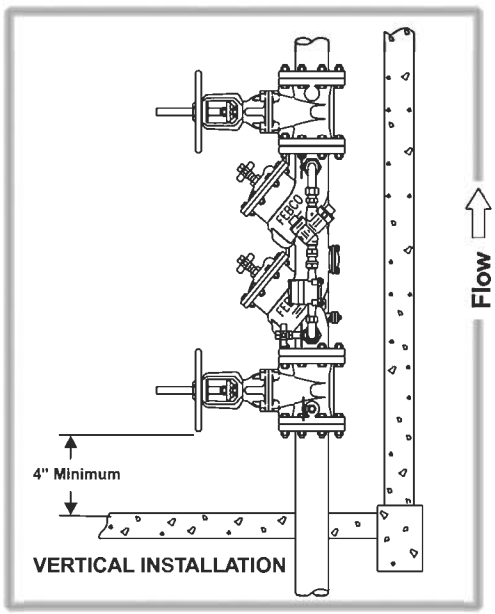
Double check detector assemblies are primarily used on fireline sprinkler systems when it is necessary to monitor unauthorized use of water.

INSTALLATION

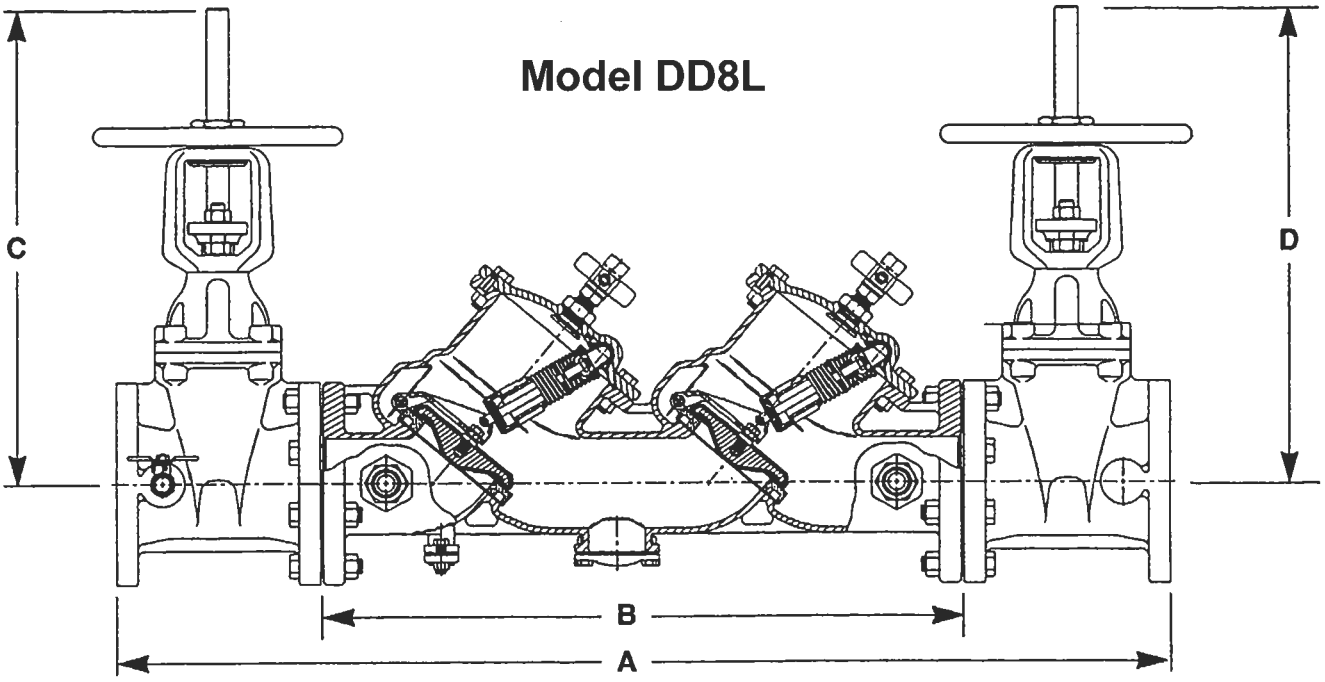
Double check detector assemblies should be installed with adequate clearance and easy accessability for testing and maintenance and must be protected from freezing. The assembly may be installed horizontally
or vertically with flow up. Larger sizes should be installed horizontally for ease of service. Thermal water expansion and/or water hammer downstream of the assembly can cause excessive pressure, which should be eliminated to avoid possible damage to the system and assembly.

CHARACTERISTICS

Max. Working Pressure	175 PSI
Hydrostatic Test Press.	350 PSI
Temperature Range	32º F to 140º F
End Connections	Flanged ANSI B16.1 Class 125



Model DD8L

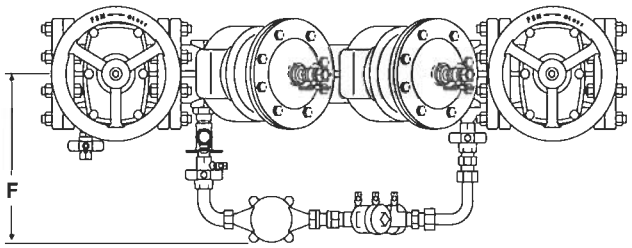


DIMENSIONS & WEIGHTS

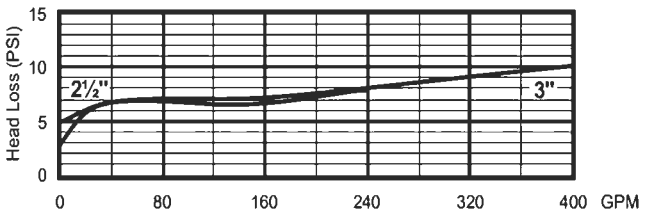
SIZE	A	B	C**	D	F	NET WT. OS&Y
2½"	40¾	25½	16⅜	10	7⅛	218
3"	41⅞	25⅝	22¼	10	7⅜	228
4"	46¼	28	23¼	10⅛	8⅛	327
6"	56	34¾	30⅛	12¾	9⅞	509
8"	65	41¾	37¾	15⅝	11⅛	789

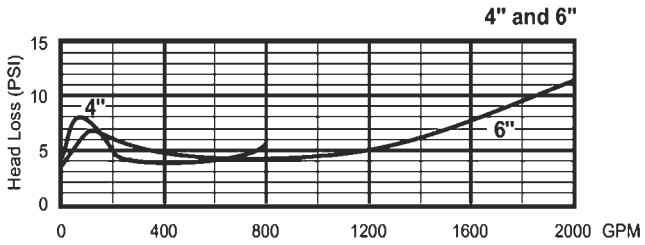
Note: Dimensions are nominal. Allowances must be made for normal manufacturing tolerances.

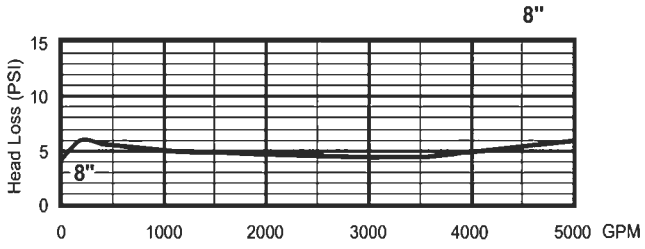
3/4" Bypass for Model DD8L



FLOW CURVES







MATERIALS

Main Valve Body	Ductile iron ASTM A536 Grade 65-45-12
Coating	Fusion epoxy coated internal and external AWWA C550-90
Shutoff Valves	NRS & OS&Y resilient wedge AWWA C509 gate valves
Trim	Bronze ASTM B584 Alloy C83600
Elastomer Discs	EPDM
Springs	Stainless steel

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