

Model 16 Double Check Detector Assembly 3" to 10"

FEATURES

- Low head loss
- Ductile iron bodies - Epoxy coated
- Detects system leaks & unauthorized usage
- Max pressure: 175 psi, hydrostatic test: 350 psi
- Temperatures up to 110° F

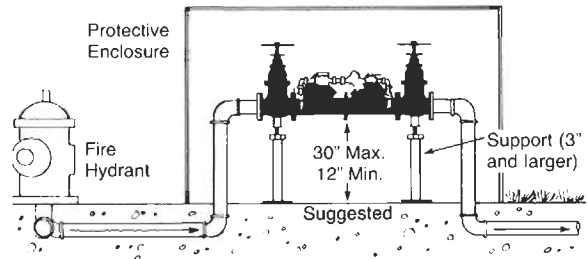
OPERATION

In a backflow condition, check valves in the by-pass and mainline units are closed to prevent any contamination. Low flows flow through the by-pass. This operation at low flow rates is accomplished by designing the differential pressure drop across the by-pass line to be lower than the mainline check valve. Any low flow, such as a leak or unauthorized use, is detected.

High volume flows open the mainline check valves causing flow to occur through the mainline assembly and the by-pass line. If a fire condition occurs, full flow will be allowed, at a minimal pressure loss.

APPLICATIONS

Automatic fire sprinkler systems containing non-toxic substances.



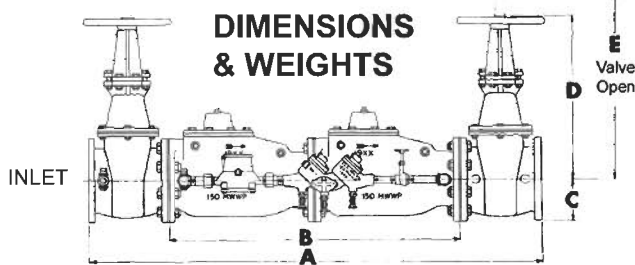
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INSTALLATION

DCDAs should be installed as above, with clearance and easy accessibility for testing and maintenance and must be protected from freezing. Thermal water expansion and/or water hammer downstream should be eliminated to avoid damage to the assembly.

MATERIALS

- Main line check & cover: Cast iron w/internal epoxy
- By-pass check & cover: bronze ASTM B-61
- Check trim (all): Bronze ASTM B-61
- Meter: Bronze
- Shut-offs: Resilient seat ball type (bypass)
OS&Y (mainline)



Valve Size	3"	4"	6"	8"	10"
A	42.19	48.25	61.25	73.94	85.69
B	26.06	30.12	40.06	50.81	59.56
C	3.75	4.50	5.50	6.75	8.00
D	16.25	19.62	26.75	32.62	39.88
E (max.)	19.75	24.75	33.25	41.25	50.50
F	10.62	11.00	12.50	14.00	18.00
G	5.81	6.81	8.62	10.00	12.00
Shipping Lbs.	350	545	865	1385	2090

