

Model 806 (4" to 10") Double Detector Check Assembly for Fire Protection Service

FEATURES

Prevents contamination of potable water by backflow from the fire protection system and detects leaks or unauthorized water use at all flow rates.

Simple service procedures. All internal parts serviceable inline.

By-pass line has water meter in series with an approved double check valve.

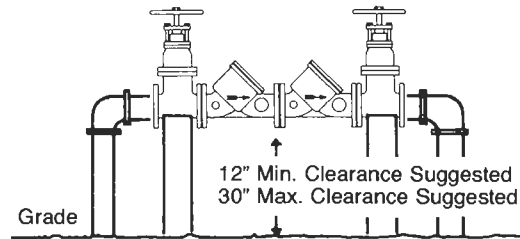
SPECIFICATIONS

The main unit consists of two internally spring loaded "Y" figure check valves, two shutoff valves and four testcocks. The spring-loaded poppets in conjunction with soft elastomer discs provide drip-tight enclosure against backflow. The stems shall be guided by replaceable bushings in the cover and seat ring to assure positive check seating. All internal cast iron parts are epoxy coated. All check valve internal parts are serviceable without moving the check valve body from the line.

The by-pass lines assembly's water meter gives accurate registration between 1 and 20 GPM flow rates. The double check's two valves achieve a pressure drop of approximately 2 PSI between them.

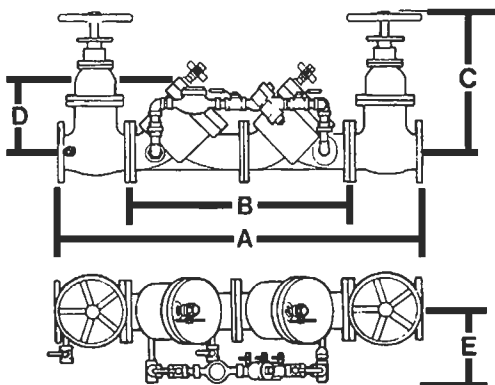
Applications

Fire service pipelines.



INSTALLATION

Double check detector assemblies should be installed with adequate clearance and easy accessibility 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.



DIMENSIONS & WEIGHTS

SIZE	A	B	C	D	E	LBS.
4"	50-7/16	23-3/4	15	11	32-5/16	499
6"	59-11/16	32-5/8	16	14	38-9/16	812
8"	69-3/16	41-7/8	17	18	46-1/16	1307
10"	84-3/16	50-1/2	20	22	56-1/16	1767

APPROVALS

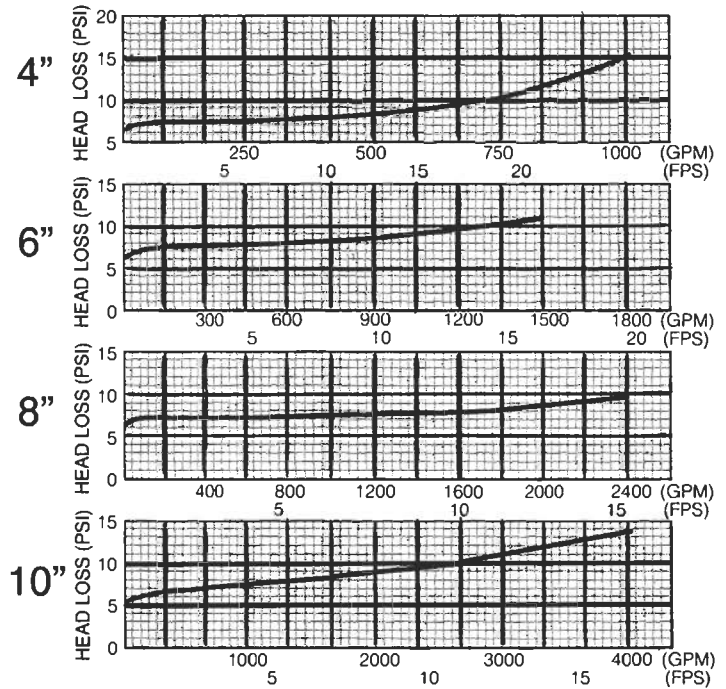
USC FCCC & HR (with resilient seated shutoff valves)
 AWWA C506 Conformance
 ASSE Listed 1015
 CSA Certified
 UL 897U Classified
 FM Approved

CHARACTERISTICS & MATERIALS

By-pass	3/4"
Max. working pressure	175 PSI
Hydrostatic test pressure	350 PSI
Temp range	32° to 140°F
Fluid	Water
End detail	Flanged ANSI B16.1
Main valve body	Ductile iron ASTM A536 grade 65-45-12 epoxy coated internal 10-20 mils
Trim	Bronze ASTM B16.1
By-pass valve body	Bronze ASTM B584-78
By-pass meter	Totalizing, 1-20 GPM, 5/8 & 3/4
Elastomers	Nitrile ASTM D-2000
Mainline check assembly	Stainless Steel 300 Series
Shut-offs	Standard gates OS&Y, metal gates, other gates available

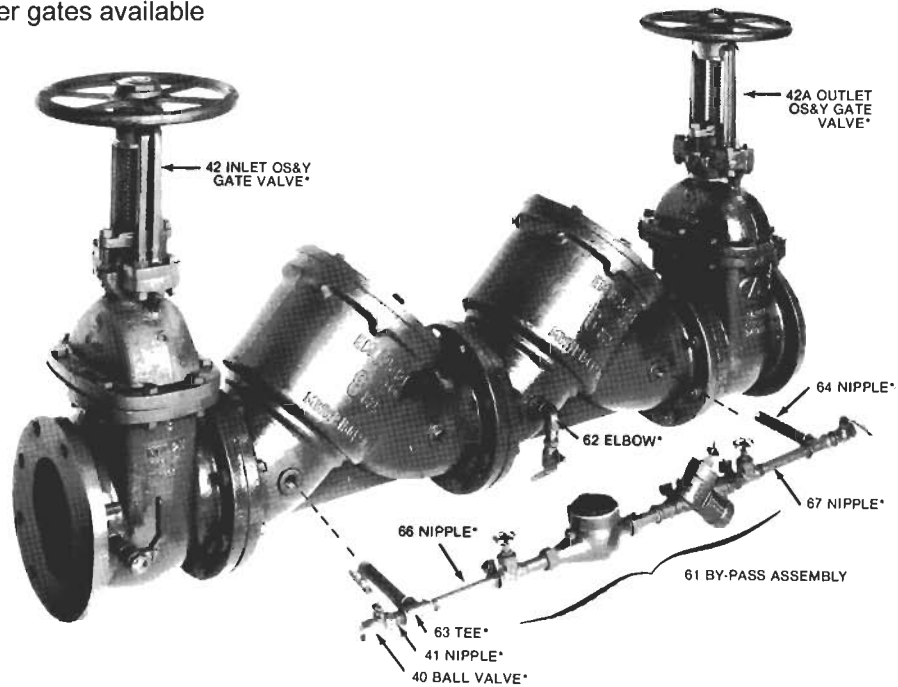
Remote reading flow meter available.

FLOW CURVES



61A COUPLING/ADAPTOR
 61B METER
 61C COUPLING
 61D 805Y-3/4 LG

ITEMS NOT SHOWN:
 65 REDUCING BUSHING (2)
 (806-4" ONLY)



MODEL 806 PARTS

NO.	DESCRIPTION	QTY.	SIZE 4"	SIZE 6"	SIZE 8"	SIZE 10"
9	Spring	2	780-778	780-779	780-780	780-781
Gate Valves						
42	Metal Seated OS&Y-Inlet	1	780-925	780-927	780-928	780-929
42	Resilient Seated OS&Y-Inlet	1	780-895	780-897	780-899	780-901
42A	Metal Seated OS&Y-Outlet	1	780-925	780-927	780-928	780-929
42A	Resilient Seated OS&Y-Outlet	1	780-894	780-896	780-898	780-900
61	Inlet By-Pass Sub Assembly	1	902-503	902-503	902-503	902-503
61	Center By-Pass Sub Assembly	1	902-504	902-603	902-604	902-605
61	Outlet By-Pass Sub Assembly	1	902-505	902-505	902-505	902-505
61B	Meter (Std.-Gal.)	1	780-666	780-666	780-666	780-666
	Mainline Spring Assembly	2	902-514	902-515	902-516	902-517

NOTE: Refer to 805 and 805Y for part numbers of all other parts. The items listed above are used only on the Model 806DCDA and are not interchangeable with the Model 805Y.