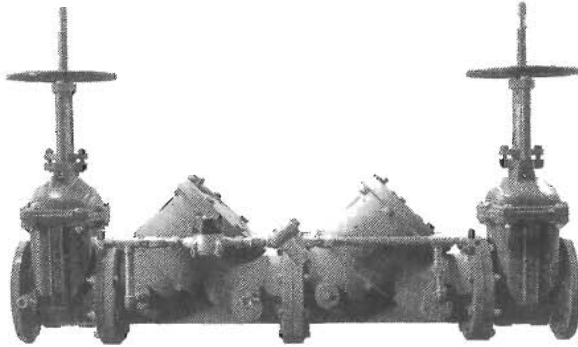




Model 806YD DCDA (3" through 10") Double Check Detector Assembly For Automatic Fire Sprinkler Systems



Features

- *DuraCheck* features all stainless steel spring assemblies for corrosion resistance, reduced fouling and longer valve life.
- *DuraCast*[®] ductile iron bodies for superior strength, corrosion resistance and lighter weight.
- Prevents contamination of potable water by backflow from the fire protection system and detects leaks or unauthorized water use at all flow rates.
- By-pass line has water meter in series with an approved double check valve.
- Low head loss.

Specifications

Double check detector assemblies consist of two independent "Y" configured mainline double check assemblies in parallel with a by-pass meter assembly.

Head losses through the assembly do not exceed 8 PSI (4" through 8") and 1- PSI (10") at velocities from zero to and including 7.5 FPS.

The by-pass meter gives accurate registration between 1 and 20 GPM flow rates. The bypass double check assembly consists of independent modular center stem guided check assemblies. The static pressure drop across the by-pass double check assembly is approximately 2 PSI less than the mainline check valves to ensure proper operation.

All flow above 5 GPM will divert through the by-pass only. Flows above this level open the mainline checks.

Dimensions & Weights

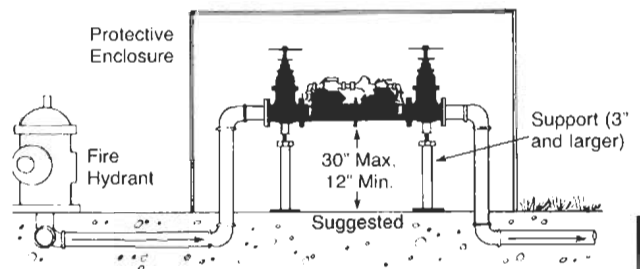
SIZE	A	B	C	D	E	NET WT.(Lbs.)	NET WT.(Lbs.)
3"	41 11/16	25 9/16	22 1/4	8 1/8	14 1/2	375	180
4	50 7/16	32 9/16	23 3/4	11	15	515	265
6	59 11/16	38 9/16	32 9/8	14	16	740	400
8	69 3/16	46 1/16	41 7/8	18	17	1115	600
10	84 3/16	58 1/16	50 1/2	22	20	1750	900

Options

- Less Gates
- Epoxy coated exterior
- Less outlet gate
- Optional Meter Type
- Meter CFPM
- Left hand by-pass
- Remote Reader
- _____

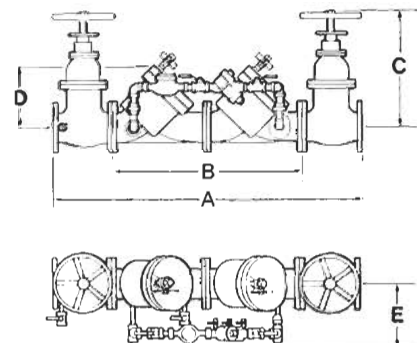
Applications

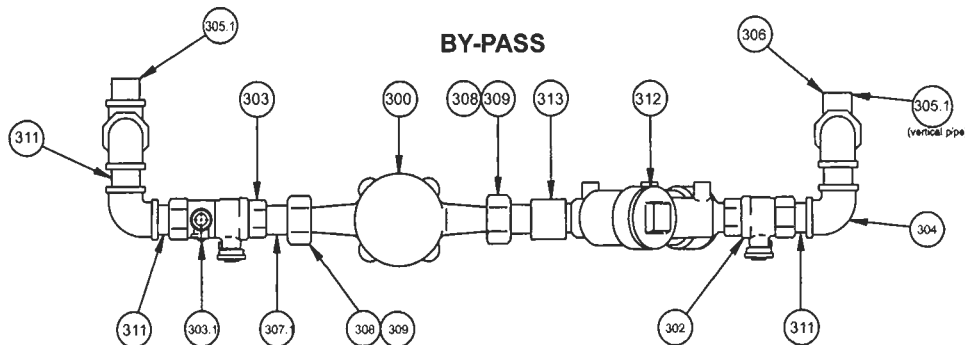
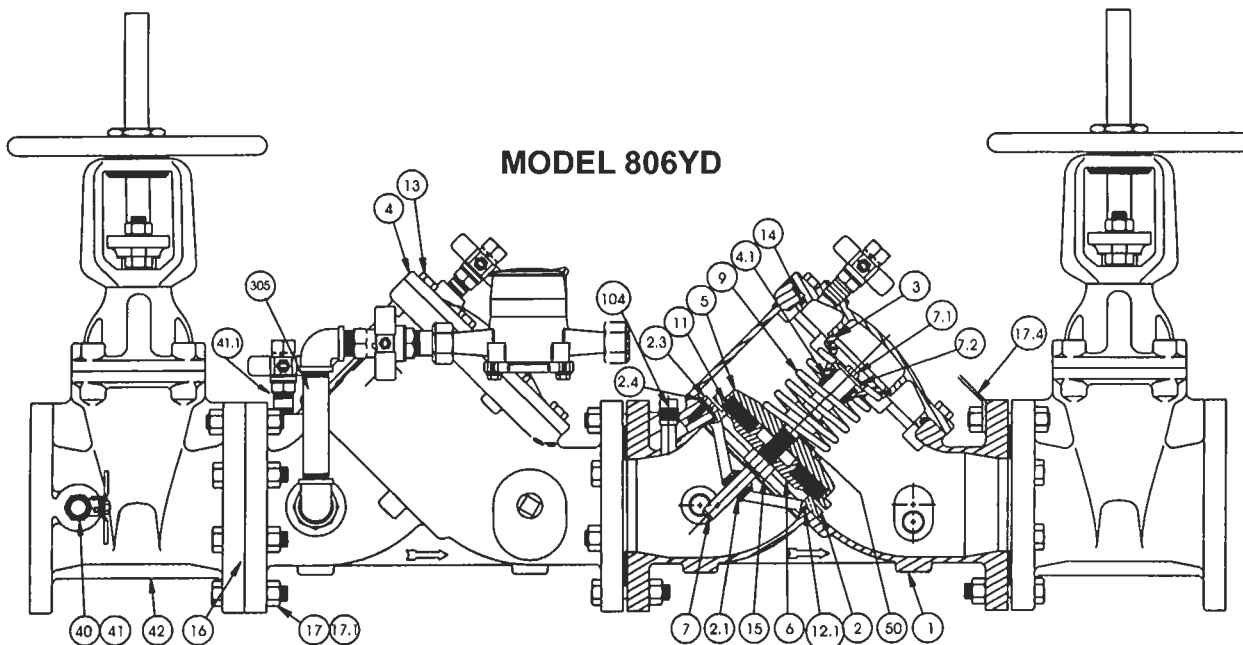
Automatic fire sprinkler systems containing non-toxic substances.



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.





Approvals

USC FCCC & HR,* Approved
 AWWA C506 Conformance
 ASSE 1015 Listed
 CSA Certified
 UL 897U Classified
 FM Approved
 ULC Listed

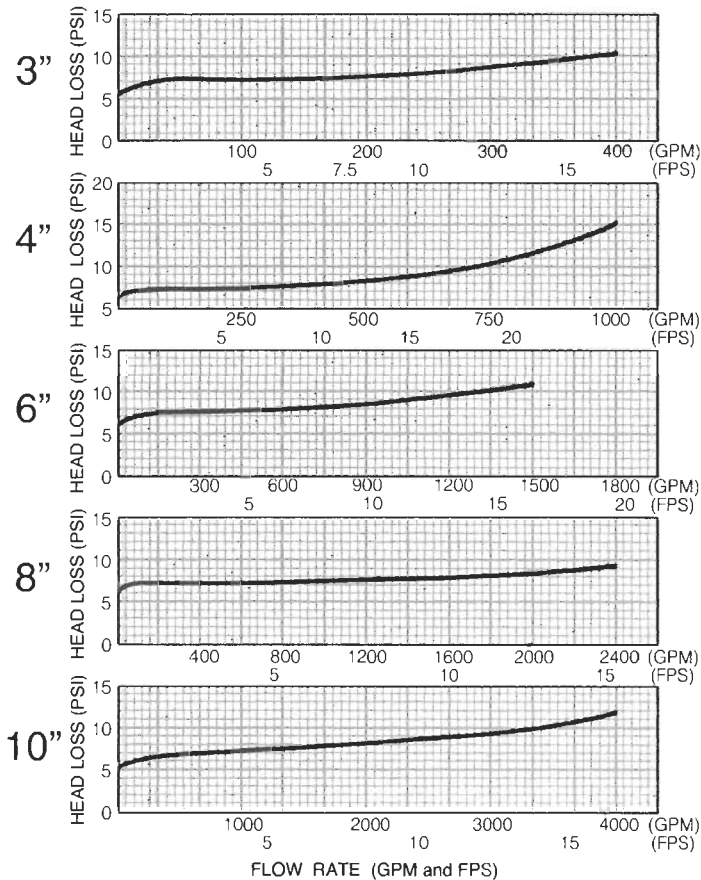
* Valves must be supplied with resilient seated/ball valve shut-off valves for USC FCCC & HR approvals to be in effect. Standard meter is GPM.

Characteristics & Materials

Sizes	Mainline: 3", 4", 6", 8", 10" By-pass: ¾"
Maximum working pressure	175 PSI
Hydrostatic test pressure	350 PSI
Temperature range	32°F to 140°F (0°C to 60°)
Fluid	Water
End detail (shut-offs)	Flanged ANSI B16.1
Main valve body	Ductile iron ASTM A536 grade 65-45-12 epoxy coated internal 10-20 mils
Trim	Bronze ASTM B-61
By-pass valve body	Bronze ASTM B584-78
By-pass meter	Totalizing, 1 to 20 gpm Size ½" x ¾"
Mainline shutoff valves	OS&Y, UL/FM
Elastomers	Nitrile ASTM D-2000
Mainline check assembly	Stainless steel, 300 series
Shut-offs	Standard gates OS & Y, resilient wedge

Remote reading flow meter available.

Flow Curves



Model 806YD Assemblies & Repair Kits

Description	Qty.	Size 2½"	Size 3"	Size 4"	Size 6"	Size 8"	Size 10"
Spring Assembly (3, 4.1, 5, 6, 7, 7.1, 7.2, 9, - 11, 15, and 50)		905-086	905-088	902-467	902-469	902-471	902-473
Rubber Parts (11, 14, and 50)	-	905-059	905-060	905-061	905-062	905-063	905-064
Seat Kit (2, 2.1, 2.2 and 12)	-	902-386YD	902-385YD	902-384YD	902-383YD	902-382YD	902-381YD
Lg. Mounting Kit (16, 17, 17.1; Both Ends)	-	905-036	905-037	905-038	905-039	905-040	905-041
Cover Assembly (4, 4.1, 14, Aircoc (not shown)	-	902-497	902-498	902-499	902-500	902-501	902-502

Model 806YD Individual Parts

Fig No.	Description	Qty.	Size 3"	Size 4"	Size 6"	Size 8"	Size 10"
9	Spring	2	630-141	780-778	780-779	780-780	780-781
Gate Valves							
42	Resilient Seated OS&Y	1	780-893	780-895	780-897	780-899	780-901
By-Pass							
300	Meter	1	-	-	-	-	-
301	Nipple	1	571-181-54	571-181-54	571-118-54	571-118-54	571-118-54
302	Ball Valve	1	781-048	781-048	781-048	781-048	781-048
303	Ball Valve	1	781-083	781-053	781-053	781-053	781-053
303.1	Test Cock	1	781-074	781-074	781-074	781-074	781-074
304	Elbow	5	571-111-50	571-111-50	571-111-50	571-111-50	571-111-50
305	Nipple	1	571-182-51	571-182-51	571-182-50	571-181-59	571-182-50
305.1	Nipple	2	571-182-41	571-182-52	571-182-52	571-182-52	571-182-52
306	Nipple	1	571-181-55	571-118-55	571-181-55	571-181-55	571-181-55
307.1	Tailpiece	2	780-777	780-777	780-777	780-777	780-777
308	Coupling Nut	2	780-665	780-665	780-665	780-665	780-665
309	Meter Washer	2	780-944	780-944	780-944	780-944	780-944
311	Nipple	1	571-118-153	571-118-153	571-118-153	571-118-153	571-118-153
312	805Y Less Shut-Off	1	907-001	907-001	907-001	907-001	907-001
313	Coupling	1	571-201-50	571-201-50	571-201-50	571-201-50	571-201-50



Parts (Sizes 4" through 10" only)

FIG. 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

For all other parts, please refer to Models 805Y & 805YD. The above parts are not interchangeable with Model 805Y/805YD.