Shown with Ball Valve shut-offs.

Model 805 (3/4" through 4") Double Check Backflow Preventer For Low Hazard Service

Features

- Simple service procedure – All internal parts serviceable from top of device.
- All bronze body and caps.
- Spring loaded inline checks.
- Corrosion resistant internal parts.
- Full port NRS gate valves.
- Designed for minimum head loss.

Description

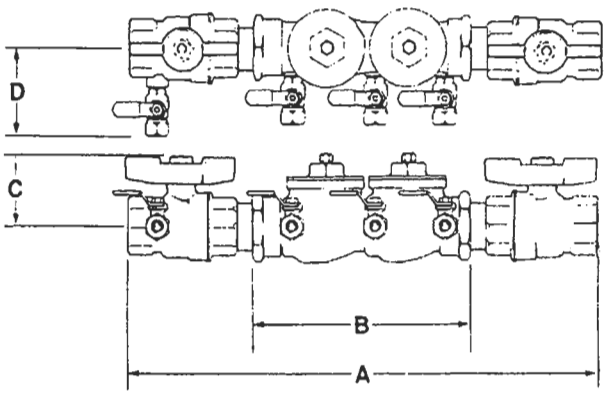
The Febco 805 ¾" through 4" devices consist of a bronze body containing two inline spring loaded poppet type check valves and three test cocks. An inlet shutoff valve with a fourth test cock and an outlet shutoff valve comprise a complete and serviceable assembly.

In normal operation the check valves open with flow demand and are designed to hold one PSI in direction of flow. Should backpressure conditions arise, the checks will close tightly thus preventing contamination of the supply.

Specifications

A double check valve assembly shall consist of all bronze body and covers incorporating two independent inline spring loaded check valves with three test cocks. The body shall be provided with an inlet full port gate valve with a test cock and another full port gate valve on the outlet and are factory assembled. All internal parts shall be made of corrosion resistant materials.

All double check valves shall be constructed so the check assemblies can be serviced from the top of the device.

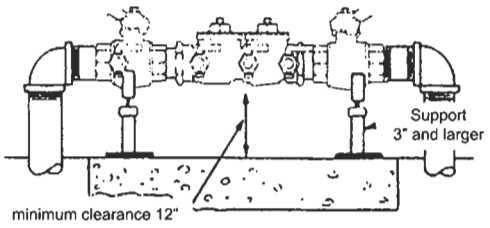


Approvals

ASSE, USC, IAPMO, SBCC, CSA, UL*
* 3" & 4"
Valves must be supplied with resilient seated shut-off valves for USC FCCC & HR approval to be in effect.

Installation

Double Check Backflow Preventers should be installed with minimum clearance of 12" between body and floor or grade. They should be installed where easily accessible for testing and maintenance and must be protected from freezing. Thermal water expansion and/or water hammer downstream of the backflow preventer can cause excessive pressure. Excessive pressure situations should be eliminated to avoid damage to the system and device.

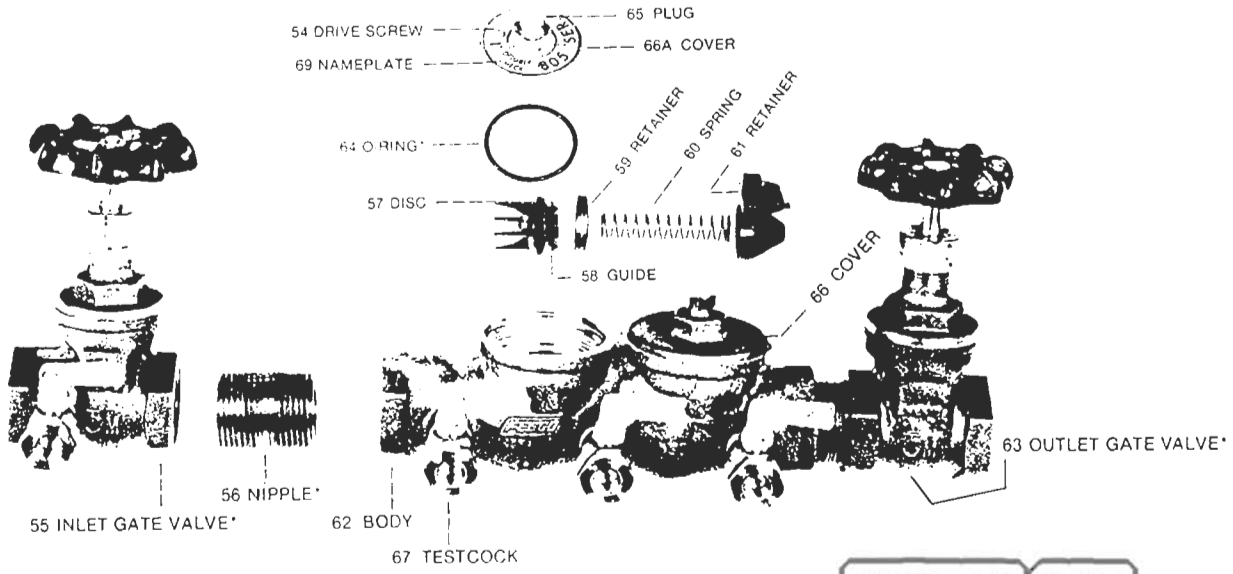


Typical Applications

Double check devices are used to prevent backflow of contaminants that are objectionable but not toxic. Double checks may be installed under continuous pressure service and may be subjected to backpressure. Double checks can be used in irrigation systems, fire protection without chemical additives, protection of industrial plants, industrial inplant plumbing systems and other systems requiring maximum protection. Consult local codes for specific approved applications of Double Check Valves.

Dimensions & Weights

SIZE	A_{BV}	A_{GV}	B	C_{BV}	C_{GV}	D	NET WT.(Lbs.)
¾	12 ¾	11 ⅝	6 9/16	2	3 ¾	2 ¾	4.6
1	14 ¾	12 ⅝	6 9/16	2 ½	3 ⅞	2 ⅝	5.8
1 ½	20 ¾	17 ⅝	10 ¾	2 ¾	5 ⅛	3 ½	18.4
2	22	18 ½	10 ¾	3	5 ¼	4	19.9
3	34 ⅛	34 ½	18 ⅛	14 ⅝	14 ⅝	5 ⅞	215
4	38 ⅛	38 ⅛	19 9/16	16 ½	16 ½	6 ½	300



MODEL 805

REPAIR KITS

Assemblies/Kits				
Check Kit (57, 58, 59, 64)	905-026	905-026	905-027	905-027
Cover Kit w/Name Plate (54, 64, 65, 66A, 69)	902-370	902-371	902-372	902-395
Cover Kit (64, 65, 66)	902-389	902-389	902-391	902-391
Rubber Parts (57, 64)		–	902-392	902-392

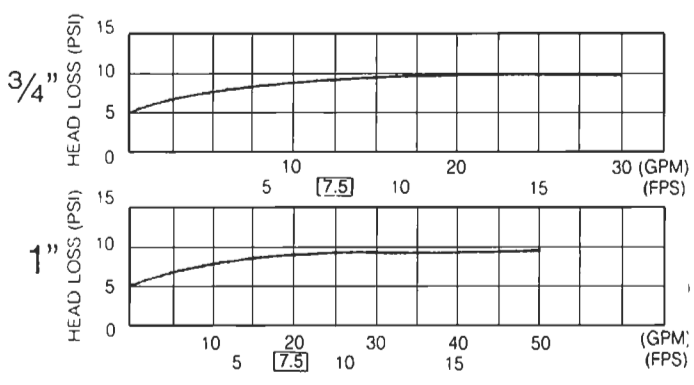
INDIVIDUAL PARTS

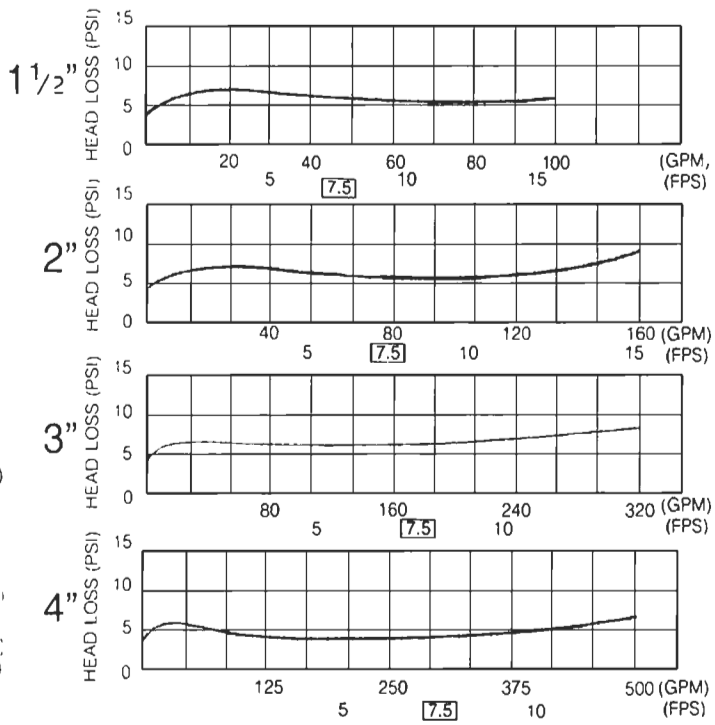
Fig. No.	Description	Qty.	Size 3/4"	Size 1"	Size 1-1/2"	Size 2"
55	Gate Vave – Tapped		780-132	780-133	780-120	780-121
56	Nipple	2	200-684	780-110	780-112	780-113
57	Disc	2	–	–	450-078	450-078
58	Guide	2	–	–	100-893	100-893
59	Disc Retainer	2	–	–	360-070	360-070
60	Spring	2	630-091	630-091	630-092	630-092
61	Retainer	2	500-151	500-151	100-892	100-892
63	Gate Valve		780-131	780-106	780-108	780-109
64	O-Ring	2	568-223	568-223	568-235	568-235
67	Test Cock	4	780-114	780-114	780-166	780-166

Characteristics

Maximum Working Pressure	150 PSI
Hydrostatic Test Pressure	300 PSI
Temperature Range	32°F to 140°F
Fluid	Water
End Detail	¾" thru 2". Threaded ANSI B2.1 3" and 4". Flanged ANSI B16.24
Main Valve Body	Bronze ASTM B-584-78
Valve Trim	Bronze ASTM B-584-78
Elastomers	Nitrile ASTM D-2000
Springs	Stainless Steel, 300 series

Flow Curves





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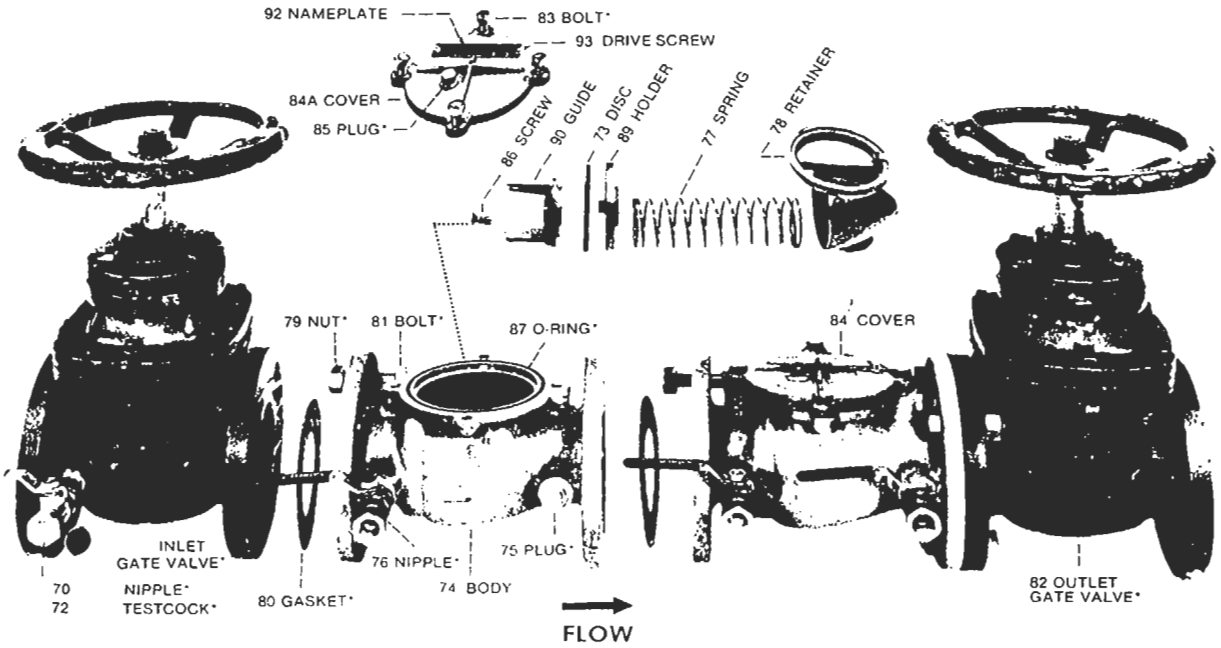

Model 805
Repair Kits & Assemblies

Check Kit (73, 86, 87, 89, 90, 91)	905-028	905-029
Cover Kit (Includes 84, 85, 87)	902-394	902-397
Rubber Parts (Includes 73, 87)	902-353	902-398
Cover Kit w/Name Plate (Includes 84A, 85, 87, 91, 92, 93)	902-399	902-400
Lg. Mounting Kit (79, 80, 81, 88, Both Ends)	905-034	905-035

Individual Parts - 3" & 4"

Fig. No.	Description	Qty.	Size 3"	Size 4
70	Nipple – Gate Valve		200-686	200-686
71	Gate Valve – Tapped		780-164	780-165
72	Test Cock	4	780-536	780-536
73	Disc	2	450-073	400-097
76	Nipple – Body	3	200-683	200-683
77	Spring	2	630-086	630-084
78	Retainer	2	100-829	100-835
79	Nut	12	720-024	–
79	Nut	24	–	720-024
80	Gasket	3	340-074	340-075
81	Bolt	12	700-118	–
81	Bolt	24	–	700-098
82	Gate Valve		780-145	780-146
83	Bolt	8	700-119	–
83	Bolt	12	–	700-129
86	Screw	2	700-059	700-061
87	O-Ring	2	568-247	568-254
88	Washer (Not Shown)	8	–	360-058
89	Disc Holder	2	100-830	100-836
90	Guide	2	100-831	100-837
91	Pin (Not Shown)	2	760-007	–