SERIES 40-600

DESCRIPTION

The Conbraco Series 40-600 Double Check Detector Assembly is designed to provide double check protection against cross-connection of non-potable (non-hazardous) water into the safe drinking water system; and at the same time offers precise monitoring capability to detect leakage or unauthorized use of water from fire or automatic sprinkler systems. The unit consists of two independently acting, spring-loaded check valves with inlet and outlet resilient wedge gate valves and a by-pass assembly consisting of a water meter, double check valve assembly with shut-off valves and test cocks.

OPERATION

During normal conditions, if the downstream pressure of the assembly increases above the supply pressure or there is a reverse direction of flow; the line and by-pass double check valves will close to prevent backflow. If the second check valve of either the line or by-pass is prevented from closing tightly, the first check valve will still provide protection from a backflow condition. The line and by-pass double check valves will remain closed during the no flow condition. If there is a low flow demand (up to a minimum of 3 gpm) of water downstream, which may be caused by a system leak or unauthorized use, the flow is routed through the water meter to monitor such consumption. Higher flow will tend the main line double check valve to open at which water continues to flow at the by-pass at a rate below capacity.

FEATURES

- · Corrosion resistant
- · Removable bronze seats
- · Replaceable discs
- · Low head loss
- Economical
- · Designed for easy in-line maintenance
- Test cocks for in-line testing
- · Maximum working pressure 175 psig
- Operating temperature range 33°F-140°F

Contact local water authorities for installation/service requirements.

MATERIALS

Body and covers

By-pass components

Springs Seats Discs

Fasteners Test cocks FDA Approved epoxy coated ductile iron (mainline)

Bronze (by-pass)

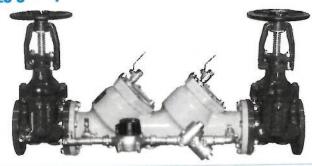
Bronze

Stainless Steel (both) Bronze (both)

EPDM (mainline) Silicone (by-pass) Stainless Steel (both)

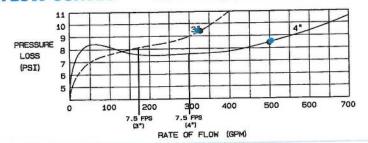
Bronze (both)

DOUBLE CHECK DETECTOR ASSEMBLY SIZES 3"-4"



FLOW CURVES

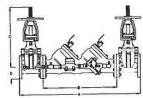
(*) Rated flow as determined by USC's FCCC&HR and ASSE design performance standards.



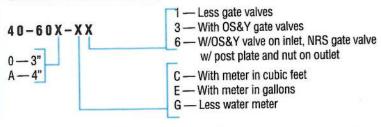
DIMENSIONS (IN.)—WEIGHTS (LBS.)

Size	3"	4"
A	38-1/16	46-3/4
В	22-1/16	28-1/2
C (OS&Y) OPEN	18- ⁷ /8	22-3/4
D	3-3/4	4-1/2
E	9-1/4	10-1/2
F	3-3/4	4-1/2
Test Cocks (line)	1/2" NPT	1/2" NPT
Test Cocks (by-pass)	1/4" NPT	1/4" NPT
Net. Wt. (Less Gate Valves)	97	161
Net. Wt. (with OS&Y Valves)	234	367
Net Wt. (with OS&Y/post indicator)	N/A	370
Shipping Wt. (Less Gate Valves)	161	225
Shipping Wt. (with OS&Y Valves)	298	431
Shipping Wt. (with OS&Y/post indicator)	N/A	434





ORDERING NUMBER



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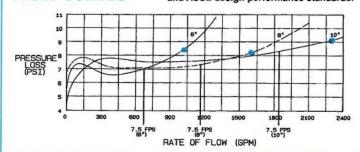
Body and covers	FDA Approved epoxy coated ductile iron (mainline)Bronze (by-pass)		
By-pass components	Bronze		
Springs	Stainless Steel (both)		
Seats	Bronze (both)		
Discs	EPDM (mainline) Silicone (by-pass)		
Fasteners	Stainless Steel (both)		
Test cocks	Bronze (both)		

DOUBLE CHECK DETECTOR ASSEMBLY SIZES 6"—8"—10"



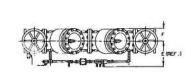
FLOW CURVES

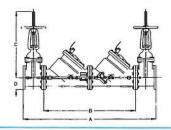
(*) Rated flow as determined by USC's FCCC&HR and ASSE design performance standards.



DIMENSIONS (IN.)—WEIGHTS (LBS.)

Size	6"	8"	10"
A	63	75	88-1/4"
В	42	52	62-1/16"
C (OS&Y) OPEN	30-1/8	37-3/4	45-3/4
D	5-1/2	6-3/4	8
E	13-1/4	14-3/4	17-1/2
F	5-1/2	6-3/4	8
Test Cocks (line)	3/4"NPT	3/4"NPT	3/4"NPT
Test Cocks (by-pass)	1/4" NPT	1/4"NPT	1/4"NPT
Net Wt. (less gate valves)	409	647	1364
Net Wt. (with OS&Y valves)	733	1142	2207
Net Wgt. (w/ OS&Y/post indicator)	733	1113	2154
Shipping Wt. (less Gate Valves)	507	817	1534
Shipping Wt. (with OS&Y valves)	869	1322	2423
Shipping Wgt. (w/ OS&Y/post indicator)	869	1293	2370





ORDERING NUMBER

