

SERIES 40-100

DESCRIPTION

The Conbraco Series 40-100 Double Check Valve Backflow Preventer is designed to control cross-connections between potable water lines and substances that are objectionable, but not a health hazard. It is an economical device that is easily repaired in the line. The device consists of two independently acting, spring-loaded check valves in a corrosion resistant ductile iron body. The unit is available with inlet and outlet shutoff valves. Four test cocks, three on the check valve body and one on the inlet shutoff valve, complete the assembly.

OPERATION

During normal flow conditions, the two check valves are held off their seats, supplying water downstream. Each check valve is designed to maintain a minimum of 1 psi across the valve during normal operation. If at any time the pressure downstream of the device increases to within 1 psi of supply pressure, both check valves will close to prevent a backflow condition from occurring.

FEATURES

- Corrosion resistant
- Removable bronze seats
- Replaceable discs
- Low head loss
- Economical
- Designed for easy maintenance
- Check valve assemblies interchangeable
- Maximum working pressure 175 psig
- Operating temperature range 33°F-140°F

Contact local water authorities for installation/service requirements.

MATERIALS

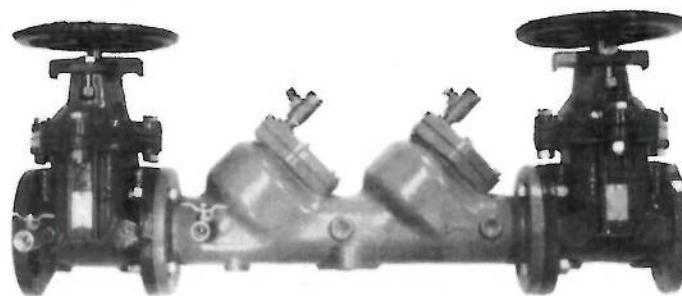
Body and covers	Epoxy Coated (FDA Approved) Ductile Iron
Springs	Stainless Steel
Seats	Bronze
C.V. Discs	EPDM
Fasteners	Stainless Steel

ORDERING NUMBER

40-1XX-0X

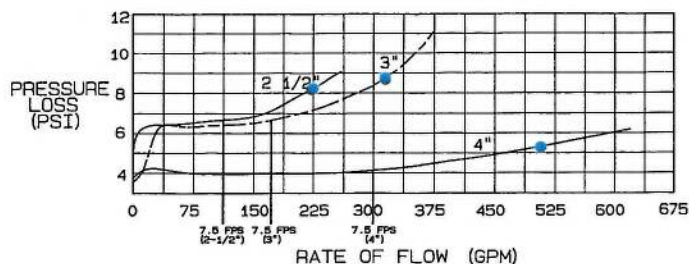
- | | | |
|-----------------------------------|------------|---|
| 0 - Standard | 9 - 2-1/2" | 1 - less gate valves |
| 1 - w/ Y-strainer (shipped loose) | 0 - 3" | 2 - w/ NRS gate valves |
| | A - 4" | 3 - w/ OS&Y gate valves |
| | | 5 - w/ Epoxy coated ball valves |
| | | 6 - w/ OS&Y gate valve on inlet, NRS gate valve w/ post plate and nut on outlet |

DOUBLE CHECK VALVE ASSEMBLY SIZES 2-1/2"—3"—4"



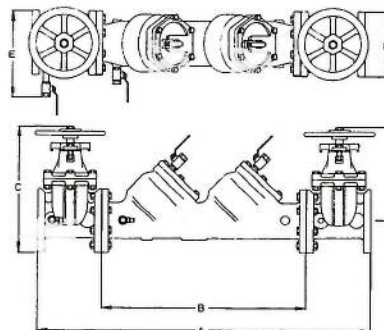
FLOW CURVES

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



DIMENSIONS (IN.)—WEIGHTS (LBS.)

Body Size	2-1/2"	3"	4"
A	37-1/16	38-1/16	46-3/4
B	22-1/16	22-1/16	28-1/2
C NRS	14-7/8	16-1/8	19-1/4
C OS&Y (OPEN)	19-7/8	22-5/8	27-1/4
D NRS	11-3/8	12-3/8	14-3/4
D OS&Y (OPEN)	16-3/8	18-7/8	22-3/4
E	9-5/8	10-3/8	11-7/8
F	7	7-1/2	9
Test Cocks	1/2 x 1/2 NPT	1/2 x 1/2 NPT	1/2 x 1/2 NPT
Net Wt. (Less Gate Valves)	84	84	146
Net Wt. (With NRS Valves)	183	214	338
Net Wt. (With OS&Y Valves)	193	221	352
Net Wt. (With Post Indicator)	N/A	N/A	355
Net Wt. (With Ball Valves)	152	160	262
Shpg. Wt. (Less gate Valves)	148	148	210
Shpg. Wt. (With NRS Valves)	247	278	402
Shpg. Wt. (With OS&Y Valves)	257	285	416
Shpg. Wt. (With Post Indicator)	N/A	N/A	419
Shpg. Wt. (With Ball Valves)	216	224	326



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OPERATION

During normal flow conditions, the two check valves are held off their seats, supplying water downstream. Each check valve is designed to maintain a minimum of 1 psi across the valve during normal operation. If at any time the pressure downstream of the device increases to within 1 psi of supply pressure, both check valves will close to prevent a backflow condition from occurring.

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MATERIALS

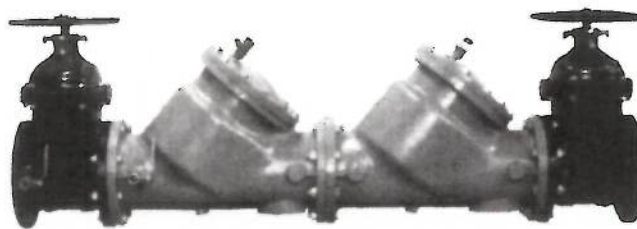
Body and covers	Epoxy Coated/FDA Approved Ductile Iron
Springs	Stainless Steel
Seats	Bronze
C.V. Discs	EPDM
Fasteners	Stainless Steel

ORDERING NUMBER

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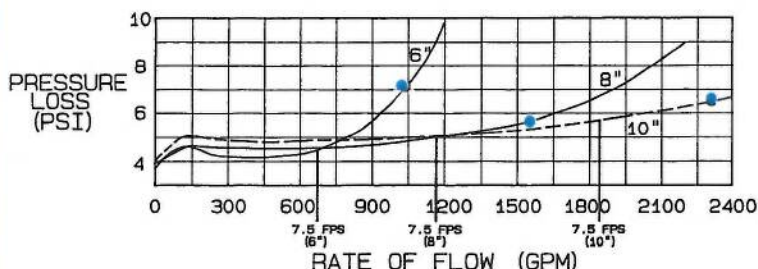
0 - Standard	C-6"	1-less gate valves
1 - w/ Y-strainer (shipped loose)	E-8"	2-w/ NRS gate valves
	G-10"	3-w/ OS&Y gate valves
		5-w/ Epoxy coated ball valves
		6-w/ OS&Y gate valve on inlet, NRS gate valve w/ post plate and nut on outlet

DOUBLE CHECK VALVE 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.)

Body Size	6"	8"	10"
A	63	75	88-1/4
B	42	52	62-1/16
C NRS	24-1/2	29-1/4	34-1/2
C OS&Y (OPEN)	35-5/8	44-1/2	53-3/4
D NRS	19	22-1/2	26-1/2
D OS&Y (OPEN)	30-1/8	37-3/4	45-3/4
E	14-5/8	16-3/4	19-1/4
F	11	13-1/2	16
Test Cocks	3/4 x 3/4 NPT	3/4 x 3/4 NPT	3/4 x 3/4 NPT
Net Wt. (Less Gate Valves)	389	625	1339
Net Wt. (With NRS Valves)	695	1065	2044
Net Wt. (With OS&Y Valves)	713	1120	2182
Net Wt. (With OS&Y/Post Indicator)	675	1091	2129
Net Wt. (With Ball Valves)	625	N/A	N/A
Shpg. Wt. (Less Gate Valves)	487	795	1509
Shpg. Wt. (With NRS Valves)	831	1245	2260
Shpg. Wt. (With OS&Y Valves)	849	1300	2398
Shpg. Wt. (With OS&Y/Post Indicator)	811	1271	2345
Shpg. Wt. (With Ball Valves)	795	N/A	N/A

