

# BACKFLOW PREVENTERS

## SERIES 40-200

### REDUCED PRESSURE PRINCIPLE SIZES 6" — 8" — 10"



#### DESCRIPTION

The Conbraco Series 40-200 Reduced Pressure Backflow Preventer consists of two independently acting, spring-loaded check valves with a differential pressure relief valve located between the check valves. The relief valve module is easily removed from the ductile iron check valve body. Pressure sensing passages are built into the relief valve module to prevent possible damage from mishandling or vandalism. The unit is available with inlet and outlet shutoff valves. Four test cocks, three on the backflow preventer 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. The relief valve is held shut by supply pressure acting through the internal sensing passage, on the relief valve diaphragm. In the area between the check valves, called the zone, the pressure is maintained at approximately 7 PSI lower than supply pressure. Should a back-pressure or back-siphonage condition occur, the second check valve will seal, prohibiting the back-flow of water. Should the second check valve become fouled, the pressure in the zone will increase causing the differential relief valve to open to atmosphere. This will maintain the pressure in the zone at least 2 PSI lower than supply pressure.

#### FEATURES

- Maximum protection against back-pressure/back-siphonage
- Removable bronze seats
- Replaceable discs
- Internal sensing passage
- Designed for easy maintenance
- Low head loss
- Economical
- Corrosion resistant
- Maximum working pressure 175 PSI
- Operating temperature range 33°F-140°F

#### APPROVALS

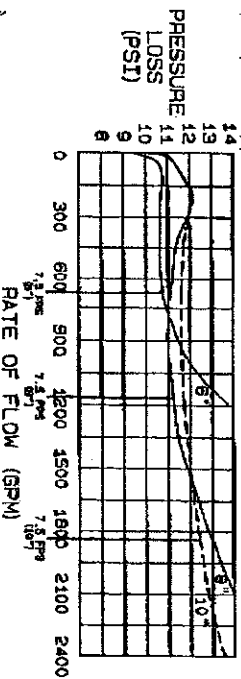
The Series 40-200 is approved under ASSE 1013, AWWA IAPMO, CSA B64.4, FM, UL Classified and USCG's FCC&HR, UL, FM approved backflow preventers must include OS&Y gate valves.



#### MATERIALS

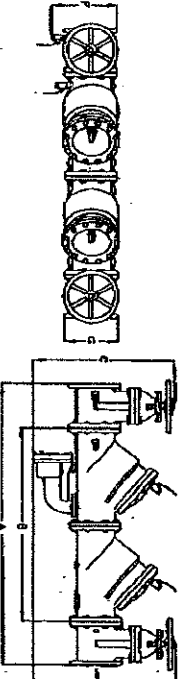
2. Springs	Stainless Steel
4. C.V. Discs	EPDM
6. R.V. Diaphragm	Buna N and Nylon
8. R.V. Body	Epoxy Coated (FDA Approved) Ductile Iron — For 8" and 10" only

#### FLOW CURVES



#### DIMENSIONS (IN.) — WEIGHTS (LBS.)

Size	Weight (LBS.)
A	68
B	75
6"	88-1/4
C	30-1/2
8"	38-1/2
D	19
10"	22-1/2
E	11-1/2
16	17-1/2
G	11
13-1/2	16
Net Wt. (Less Gate Valves)	430
715	1448
Net Wt. (w/OS & Y Valves)	754
1210	2286
Shipping Wt. (w/NRS Valves)	834
1325	2318



#### ORDERING NUMBER

Size	SUFFIX NUMBERS
6"	— 40-20C
8"	— 40-20E
10"	— 40-20G

-01 less gate valves  
 -02 with NRS gate valves  
 -03 with OS & Y gate valves