

SPECIFICATIONS

GENERAL SPECIFICATIONS

The backflow preventer shall be a Reduced Pressure Principle and shall include a bronze elbow and a quarter-turn, full-port, resilient-seated shut-off valve on each end of the body. The assembly shall be fitted with four (4) properly located, resilient-seated test cocks.

The assembly shall have two (2) independent and internally loaded check valves and a pressure differential relief valve located between the check valves.

The assembly shall be approved in either "U" (vertical flow up and flow down) and "Z" (vertical flow up into the unit and vertical flow up out of the unit) configurations.

The backflow preventer shall be suitable for **supply pressure up to 175 psig and water temperatures from 33 to 180°F.**

The backflow preventer shall meet the requirements of **USC's FCCC & HR Manual, Section 10, ASSE 1013, and CSA B64.4.**

CONBRACO SPECIFICATIONS

A Reduced Pressure Principle backflow preventer shall protect against backflow by either backpressure or backsiphonage from a cross-connection between potable water system and substances that are non-health and health hazards.

It shall consist of two (2) mechanically independent, spring loaded, poppet type check valves and a hydraulically dependent differential pressure relief valve set in an integral cast bronze body. The assembly shall include two (2) shut-off valves and four (4) test cocks which are quarter-turn, full-port, resilient-seated and ball type.

The assembly shall offer installation flexibility by providing inlet and outlet bronze elbows to meet space requirements, adaptability and lower installation cost.

The seat of each check valve and the relief valve shall be replaceable. The loading of each check valve poppet assembly shall be accomplished by a stainless steel compression spring retained in position by a threaded bronze cover.

The differential pressure relief valve shall be located between and below the check valves and the sensing passage shall be casted internally into the body. The relief valve shall be spring loaded to open and diaphragm actuated to remain in the closed position by means of a differential pressure.

All parts shall be made of corrosion resistant materials, and shall be **100% made in the USA.**

The backflow preventer shall be suitable for supply pressure up to **175 psig and water temperatures from 33 to 180° F.**

The assembly shall be listed or approved under the following standards: **USC's FCCC & HR Manual, Section 10, ASSE 1013, and CSA B64.4.**

The manufacturing facility shall be **ISO 9001 REGISTERED.**

The backflow preventer shall be manufactured by **CONBRACO INDUSTRIES, INC.,** Matthews, North Carolina.

U and Z Flow

Reduced Pressure Principle

Sizes 3/4" – 1" – 1-1/4" – 1-1/2" – 2"



(Z-FLOW)



(U-FLOW)



FEATURES

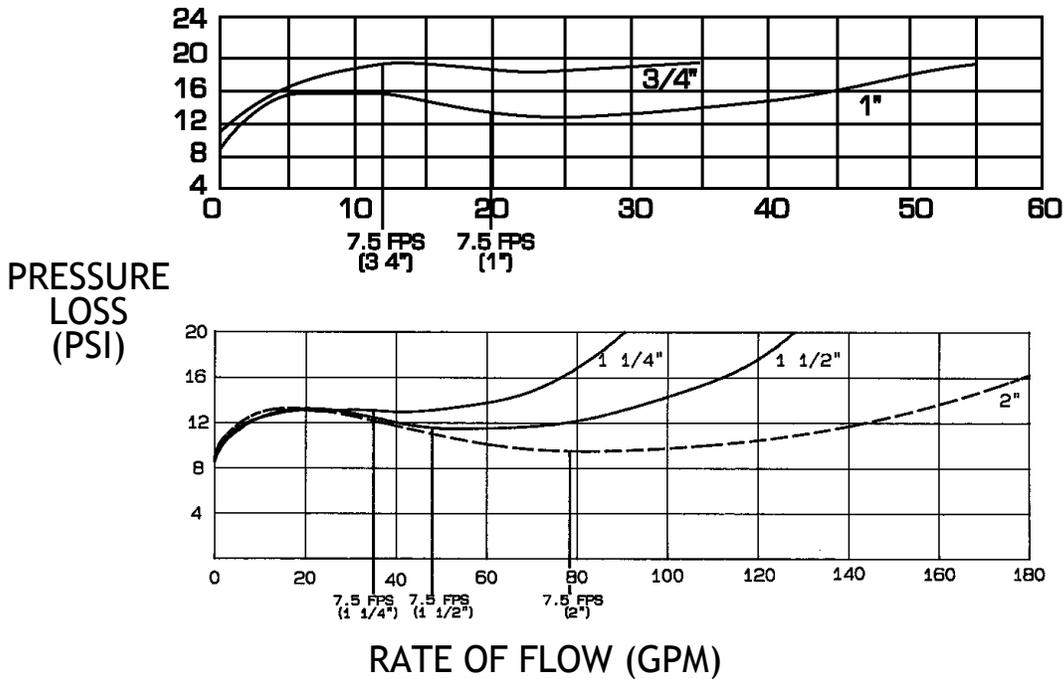
- Maximum protection against backpressure/backsiphonage
- Flexibility in installation
- Low installation cost
- Compact
- Internal sensing passage
- Low head loss
- Removable seat discs
- Replaceable seats
- Comes standard with "Apollo" Ball Valves
- Maximum working pressure 175 PSI
- Temperature range 33-180°F

APPROVALS

The Series 40-200 (U and Z Flow) is approved under **USC's FCCC & HR Manual, Section 10, ASSE 1013, and CSA B64.4.**

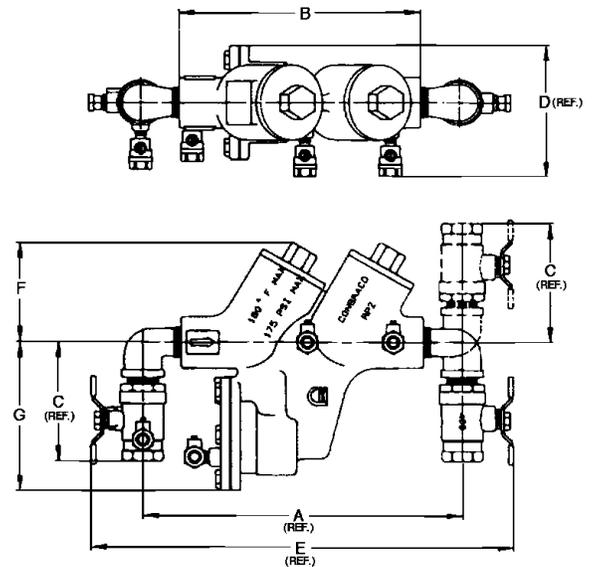


FLOW CURVES WITH BALL VALVES



DIMENSIONS (in.) – WEIGHTS (lbs.)

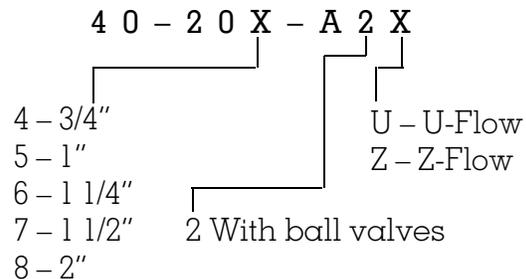
| Body Size | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|
| A | 10-1/2 | 10-13/16 | 14-3/8 | 15-1/8 | 15-3/4 |
| B | 8 | 8 | 11 | 11 | 11 |
| C | 4-1/8 | 5-1/4 | 6 | 6-5/8 | 7-5/8 |
| D | 5 | 5 | 5-3/4 | 5-7/8 | 6-1/4 |
| E | 13-1/2 | 15-1/8 | 18-5/8 | 20-3/4 | 22-1/8 |
| F | 3-1/4 | 3-1/4 | 4-3/4 | 4-3/4 | 4-3/4 |
| G | 5-1/8 | 5-1/8 | 7-1/8 | 7-1/8 | 7-1/8 |
| Test Cocks | 1/8x1/4 NPT | 1/8x1/4 NPT | 1/4x1/4 NPT | 1/4x1/4 NPT | 1/4x1/4 NPT |
| Net Wt. (with Ball Valves) | 14.7 | 15.6 | 37-1/2 | 39-3/8 | 43-3/4 |
| Shipping Wt. (with Ball Valves) | 15.7 | 16.6 | 40 | 41-3/8 | 45-1/4 |



MATERIALS

1. Body, Covers & Elbows – Bronze
2. Springs – Stainless Steel
3. Poppets – Glass-filled Celcon
4. Seat discs – Silicone rubber
5. Diaphragm – Buna N and Nylon
6. R.V. Stem – Noryl
7. Fasteners – Stainless Steel
8. Replaceable Seats – Glass-filled Noryl

ORDERING NUMBERS



BACKFLOW PRODUCTS DIVISION