

# **Model RP40**

# REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER

| Job Name:     | Contractor:            |
|---------------|------------------------|
| Job Location: | P.O. Number:           |
| Engineer:     | Representative:        |
| Tag:          | Wholesale Distributor: |

#### **SPECIFICATIONS**

The 2 ½" - 10" Reduced Pressure Principle Backflow Preventer shall be an Apollo® Model RP40. The assembly shall be manufactured in America. The epoxy-coated ductile iron body shall be configured with individuallyaccessible top-mounted check valves. The relief valve portion shall be positioned at the bottom of the assembly with a separate center-accessed cover. The replaceable seat rings shall be bronze threaded-in type and the reversible seat discs shall be silicone rubber. The Apollo® domestic ball valve test cocks shall have stainless steel handles. The assembly shall prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are health or nonhealth hazards. The pressure drop across the assembly shall be documented by USC's FCCC&HR approval curves.

#### **FEATURES**

- Replaceable seat rings
- · Reversible seat discs
- Individual access to check valves
- Designed for easy maintenance
- · Corrosion resistant epoxy-coated ductile iron body
- MADE IN THE USA

### **MATERIAL SPECIFICATIONS**

| Part Name         | Material           |  |  |
|-------------------|--------------------|--|--|
| Body              | Epoxy-coated (FDA) |  |  |
| _                 | Ductile Iron       |  |  |
| Relief Valve Body | Bronze             |  |  |
| Covers            | Epoxy-coated (FDA) |  |  |
|                   | Ductile Iron       |  |  |
| Check Valve Seats | Bronze             |  |  |
| Springs           | Stainless Steel    |  |  |
| Seat Discs        | EPDM & Silicone    |  |  |
| Fasteners         | Stainless Steel    |  |  |

# PERFORMANCE RATING

Maximum Working Pressure 175 psi Hydrostatic Test Pressure 350 psi Temperature Range 33 °F – 140 °F

#### **APPROVALS**

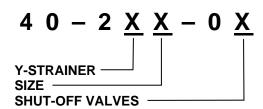
ASSE<sup>®</sup> 1013, CSA<sup>®</sup> B64.4, IAPMO listed, USC's FCCC&HR, AWWA C-511, UL\*, and FM\*.

\*UL and FM installations must include indicating-type shutoff valves.





# ORDERING INFORMATION



# Y-STRAINER

- **□ 0** None (Standard)
- ☐ 1 With Y-Strainer (Flanged, shipped loose)

### SIZE

 $\Box$  9-2½"  $\Box$  C-6"  $\Box$  0-3"  $\Box$  E-8"

 $\Box$  **A** - 4"  $\Box$  **G** - 10"

# **SHUT-OFF VALVES (Inlet x Outlet)**

- □ 1 Less Shut-off Valves (flanged-end body)
- □ 2 NRS Flanged x NRS Flanged
- ☐ 3 OS&Y Flanged x OS&Y Flanged
- ☐ 5 Epoxy-coated Flanged Ball Valves
- ☐ 6 OS&Y Flg x Post Indicator Flg\*\*
- □ 7 OS&Y Flg x OS&Y Grv
- □ 8 OS&Y Grv x OS&Y Grv
- 10 OS&Y Flg x Post Indicator Grv\*\*

<sup>\*\*</sup>Post Indicator option not available in 2 1/2" size

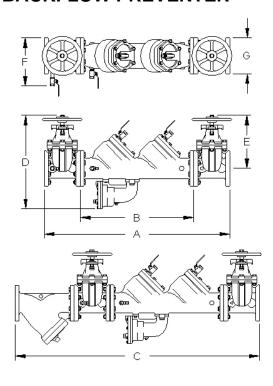
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# **DIMENSIONS (in.) - WEIGHTS (lbs.)**

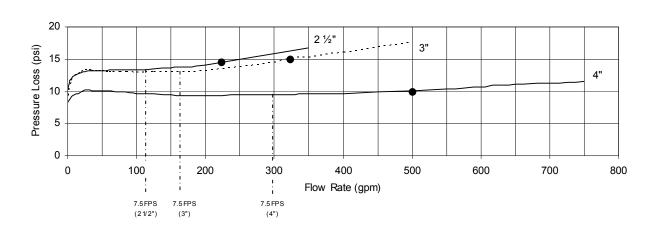
| Size                              | 2 1/2"   | 3"       | 4"      | 6"     | 8"     | 10"     |
|-----------------------------------|----------|----------|---------|--------|--------|---------|
| A*                                | 37 5/16  | 38 5/16  | 46 3/4  | 63 3/8 | 75 3/8 | 88 3/8  |
| B*<br>(flanged-end body)          | 22 1/16  | 22 1/16  | 28 1/2  | 42 1/8 | 52 1/8 | 62 1/8  |
| C*                                | 47 15/16 | 49 15/16 | 61 3/4  | 84 1/2 | 96 7/8 | 114 5/8 |
| D (NRS)                           | 20 7/8   | 21 7/8   | 25 3/16 | 30 1/2 | 38 1/2 | 44      |
| D(OS&Y Open)                      | 25 7/8   | 28 3/8   | 33 3/16 | 41 5/8 | 53 3/4 | 63 1/4  |
| E (NRS)                           | 11 3/8   | 12 3/8   | 14 3/4  | 19     | 22 1/2 | 26 1/2  |
| E (OS&Y Open)                     | 16 3/8   | 18 7/8   | 22 3/4  | 30 1/8 | 37 3/4 | 45 3/4  |
| F                                 | 9 5/8    | 10 3/8   | 11 7/8  | 14 5/8 | 16 3/4 | 19 1/4  |
| G                                 | 7        | 7 1/2    | 9       | 11     | 13 1/2 | 16      |
| Test Cocks (NPT)                  | 1/2      | 1/2      | 1/2     | 3/4    | 3/4    | 3/4     |
| Net Wt.<br>(Less Valves)          | 120      | 122      | 196     | 430    | 715    | 1443    |
| Net Wt. (w/ OS&Y shut-off valves) | 229      | 259      | 402     | 754    | 1210   | 2286    |

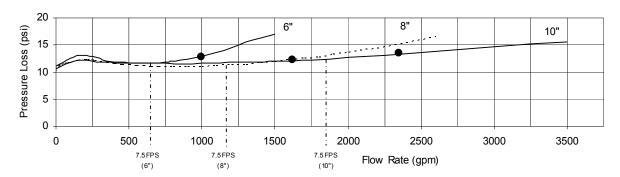
<sup>\*</sup> Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.



# **FLOW CURVES**

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





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