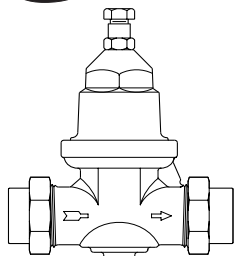


### Model BR4

### Water Pressure Reducing Valve



#### FEATURES

Sizes: ☐ 1/2" ☐ 3/4" ☐ 1"

|                                   |               |
|-----------------------------------|---------------|
| Maximum working water pressure    | 400 psi       |
| Maximum working water temperature | 180°F         |
| Reduced pressure range            | 15 to 150 psi |
| Factory preset                    | 50 psi        |
| Threaded connections (FNPT)       | ANSI B1.20.1  |
| Copper connections (FC)           | ANSI B16.22   |

#### OPTIONS

(Suffixes can be combined)

- ☐ - with single union FNPT connection (standard)
- ☐ C - with FC (copper sweat) union connection
- ☐ DU - with double union connection (FNPT)
- ☐ EC - with integral pressure relief valve for water thermal expansion control
- ☐ LU - with integral FNPT connection (no union)
- ☐ PEX - with male barbed connection tailpiece for crossed-linked polyethylene tubing
- ☐ SC - with stainless steel adjustment bolt and lock nut for below-ground installations
- ☐ P - tapped and plugged for gauge

#### ACCESSORIES

- ☐ Repair kit
- ☐ BR4DUSPC special plastic spacer nipple for use with BR4DU (1/2", 3/4" & 1 1/4")
- ☐ 70DUSPC special plastic spacer nipple for use with 70DU (3/4", 1" & 1 1/4") and BR4DU (1")
- ☐ SCR In-line strainer screen for DUSPC
- ☐ TPK Tailpiece kit

#### DIMENSIONS & WEIGHTS (do not include pkg.)

| SIZE |    | CONNECTIONS  | DIMENSIONS (approximate) |     |       |     |        |    |       |    | WEIGHT |     |
|------|----|--------------|--------------------------|-----|-------|-----|--------|----|-------|----|--------|-----|
|      |    |              | A                        |     | B     |     | C      |    | D     |    |        |     |
| in.  | mm |              | in.                      | mm  | in.   | mm  | in.    | mm | in.   | mm | lbs.   | kg. |
| 1/2  | 15 | SINGLE UNION | 4 3/8                    | 111 | 6 1/4 | 159 | 1 1/8  | 29 | 2 1/2 | 64 | 3      | 1.5 |
| 1/2  | 15 | LESS UNION   | 3 1/2                    | 89  | 6 1/4 | 159 | 1 1/8  | 29 | 2 1/2 | 64 | 3      | 1.5 |
| 1/2  | 15 | DOUBLE UNION | 5 1/4                    | 133 | 6 1/4 | 159 | 1 1/8  | 29 | 2 1/2 | 64 | 3      | 1.5 |
| 3/4  | 20 | SINGLE UNION | 4 7/16                   | 113 | 6 1/4 | 159 | 1 1/8  | 29 | 2 1/2 | 64 | 3      | 1.5 |
| 3/4  | 20 | LESS UNION   | 3 1/2                    | 89  | 6 1/4 | 159 | 1 1/8  | 29 | 2 1/2 | 64 | 3      | 1.5 |
| 3/4  | 20 | DOUBLE UNION | 5 3/8                    | 137 | 6 1/4 | 159 | 1 1/8  | 29 | 2 1/2 | 64 | 3      | 1.5 |
| 1    | 25 | SINGLE UNION | 4 15/16                  | 125 | 7 3/4 | 197 | 1 3/16 | 30 | 3     | 76 | 4      | 2.0 |
| 1    | 25 | LESS UNION   | 4                        | 102 | 7 3/4 | 197 | 1 3/16 | 30 | 3     | 76 | 4      | 2.0 |
| 1    | 25 | DOUBLE UNION | 5 15/16                  | 151 | 7 3/4 | 197 | 1 3/16 | 30 | 3     | 76 | 4      | 2.0 |

#### APPLICATION

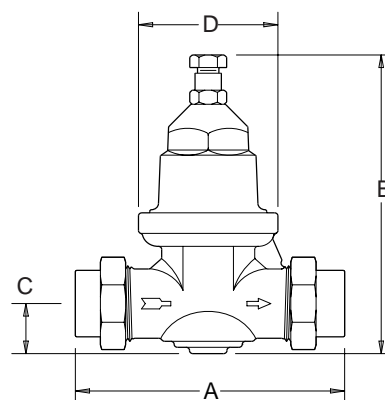
Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The integral strainer makes this device most suitable for residential and commercial water systems that require frequent cleaning of sediment and debris. The balance piston design enables the regulator to react in a smooth and responsive manner to changes in system flow demand, while at the same time, providing protection from inlet pressure changes.

#### STANDARDS COMPLIANCE

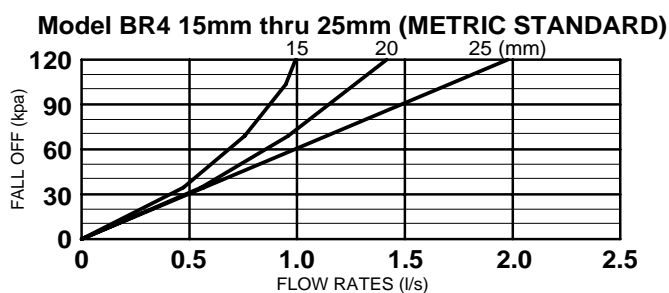
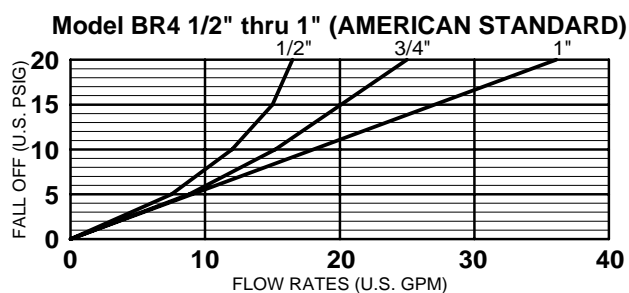
- ☐ ASSE® Listed 1003
- ☐ IAPMO® Listed
- ☐ CSA® Certified
- ☐ City of Los Angeles Approved

#### MATERIALS

|                 |  |
|-----------------|--|
| Main valve body | Cast bronze ASTM B 584   |
| Bell housing    | UV resistant polymer composite   |
| Internals       | Stainless steel, 300 Series  |
| Stem            | Brass ASTM B 16  |
| Elastomers      | EPDM (FDA approved)<br>Buna nitrile (FDA approved)<br>Delrin™ (NSF Listed) |
| Cartridge       | Hard drawn wire, ASTM A 227  |
| Springs         |  |

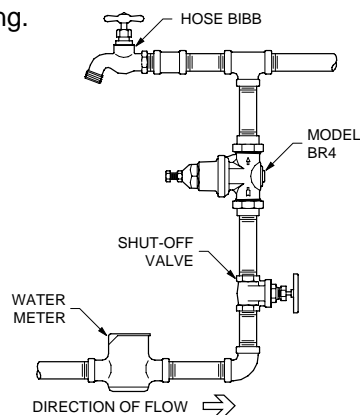


## FLOW CHARACTERISTICS

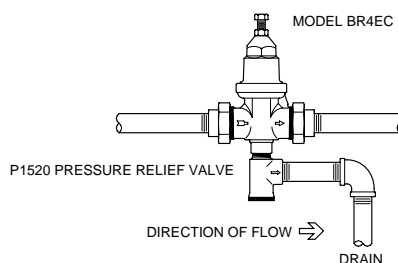


## TYPICAL INSTALLATION

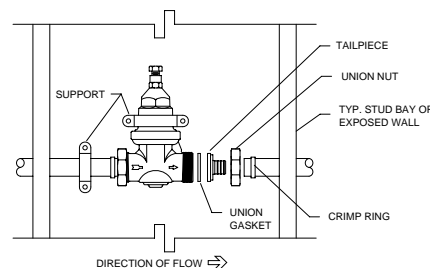
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. The Model BR4 may be installed in any position. If installed in a pit or vault, specify the "SC" sealed cage option. The assembly shall be installed with sufficient side clearance for testing and maintenance. Multiple installations are recommended for wide demand variations or where the desired pressure reduction is more than 4 to 1 (ie: 200 psi inlet reduced to 50 psi outlet). **CAUTION:** Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing.



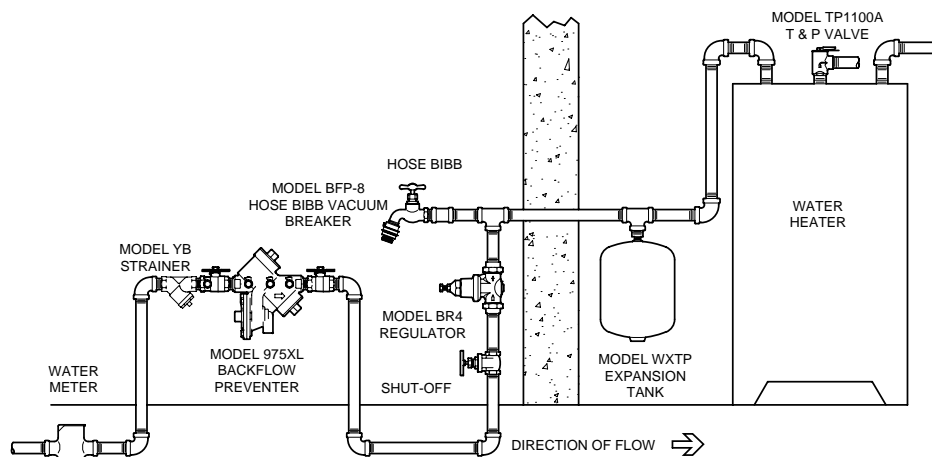
**OUTDOOR INSTALLATION**



**BR4EC INSTALLATION**



**BR4PEX INSTALLATION**



**TYPICAL INSTALLATION**

## SPECIFICATIONS

The water pressure reducing valve shall be ASSE® Listed 1003, and available with single union, double union and less union end connections. The main body shall be cast bronze (ASTM B 584). The bell shall be composite plastic. The cartridge shall be acetal and incorporate an integral seat. The seat disc elastomer shall be EPDM. The assembly shall be accessible for maintenance without removing the device from the line. The water pressure reducing valve shall be a WILKINS Model BR4.