

### Application

Ideal for use where Lead-Free\* valves are required. Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The 500XLHTSTSC valves are ideal for continuous hot water recirculation systems.

### Standards Compliance

- ASSE® Listed 1003 (1/2" thru 2 1/2")
- IAPMO® Listed (1/2" thru 2")
- City of Los Angeles Approved (1/2" thru 2")
- CSA® Certified (1/2" thru 2")
- Certified to NSF/ANSI 372\* by IAPMO R&T

\*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

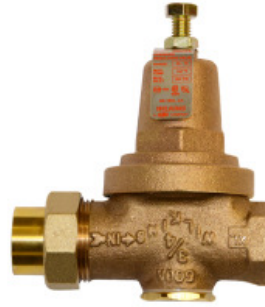
### Materials

|                 |   |            |
|-----------------|---|------------|
| Main valve body | Low lead cast bronze                    | ASTM B 584 |
| Access covers   | Low lead cast bronze                    | ASTM B 584 |
|                 | Low Lead Brass                          |            |
| Fasteners       | Stainless steel, 300 series             |            |
| Stem & plunger  | Low lead cast bronze                    | ASTM B 584 |
|                 | Low Lead Brass                          |            |
| Elastomers      | Buna Nitrile & Teflon diaphragm         |            |
|                 | Viton seat washer, o-ring, union gasket |            |
| Cap gaskets     | Natural vulcanized fibre                |            |
|                 | Acetal (Delrin™ 500), NSF Listed        |            |
| Springs         | 302 Stainless steel, ASTM A 313         |            |
| Seat            | Stainless steel, 300 series             |            |

### Features

Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"

|                                   |                  |
|-----------------------------------|------------------|
| Maximum working water pressure    | 300 psi          |
| Maximum working water temperature | 180° F           |
| Reduced pressure range            | 25 psi to 75 psi |
| Factory preset                    | 50 psi           |
| Threaded connections (FNPT)       | ANSI B1.20.1     |
| Copper connections (FC)           | ANSI B 16.22     |

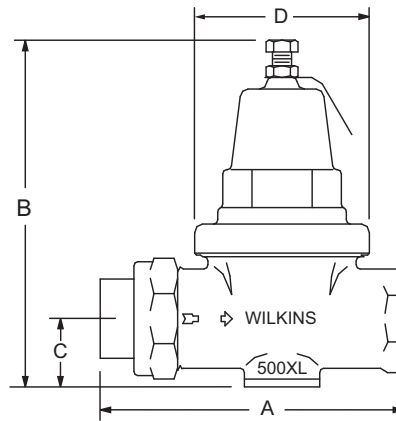


### Options

- standard with single union FNPT inlet x FNPT outlet (1/2" thru 2")
- C - copper sweat connection (1/2" thru 2")
- 180°F maximum temp, Teflon diaphragm
- sealed cage bell housing and stainless steel adjustment screw, & nut
- stainless steel trim, ss spring, ss diaphragm bolt
- P - tapped and plugged for gauge
- HR - high range 75 psi - 125 psi  
Factory set at 85 psi

### Accessories

- Repair kit (rubber only)

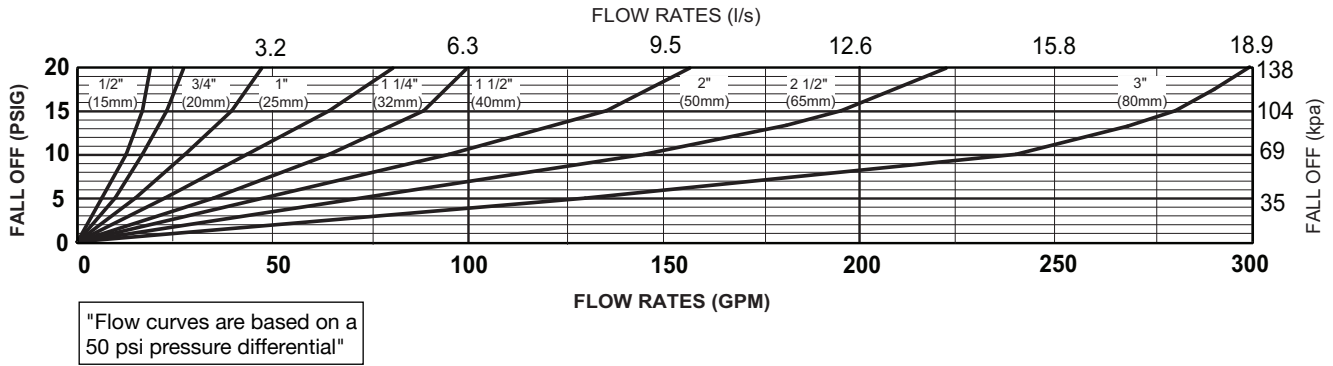


### Dimensions & Weights (do not include pkg.)

| SIZE  |    | CONNECTIONS  | DIMENSIONS (approximate) |     |        |     |       |    |        |     | WEIGHT |      |
|-------|----|--------------|--------------------------|-----|--------|-----|-------|----|--------|-----|--------|------|
| in.   | mm |              | A                        |     | B      |     | C     |    | D      |     | lbs.   | kg.  |
| 1/2   | 15 | SINGLE UNION | 4 1/2                    | 108 | 6      | 152 | 1 5/8 | 41 | 2 3/4  | 70  | 3      | 1.5  |
| 3/4   | 20 | SINGLE UNION | 4 5/8                    | 118 | 6      | 152 | 1 1/8 | 29 | 2 3/4  | 70  | 4      | 2.0  |
| 1     | 25 | SINGLE UNION | 5 1/8                    | 130 | 6 7/8  | 175 | 1 5/8 | 41 | 3 5/16 | 84  | 6      | 3.0  |
| 1 1/4 | 32 | SINGLE UNION | 6 5/16                   | 160 | 7 1/4  | 184 | 1 3/4 | 45 | 4      | 102 | 7      | 3.0  |
| 1 1/2 | 40 | SINGLE UNION | 8 5/16                   | 211 | 10     | 254 | 1 7/8 | 48 | 5      | 127 | 14     | 6.5  |
| 2     | 50 | SINGLE UNION | 9 1/2                    | 241 | 10 3/4 | 273 | 2 1/8 | 54 | 6 1/2  | 165 | 20     | 9.0  |
| 2 1/2 | 65 | LESS UNION   | 10                       | 254 | 14 1/2 | 368 | 3     | 76 | 8      | 203 | 28     | 12.5 |
| 3     | 80 | LESS UNION   | 11 1/8                   | 283 | 16     | 406 | 3 1/2 | 89 | 8      | 203 | 44     | 20.0 |

**Flow Characteristics**

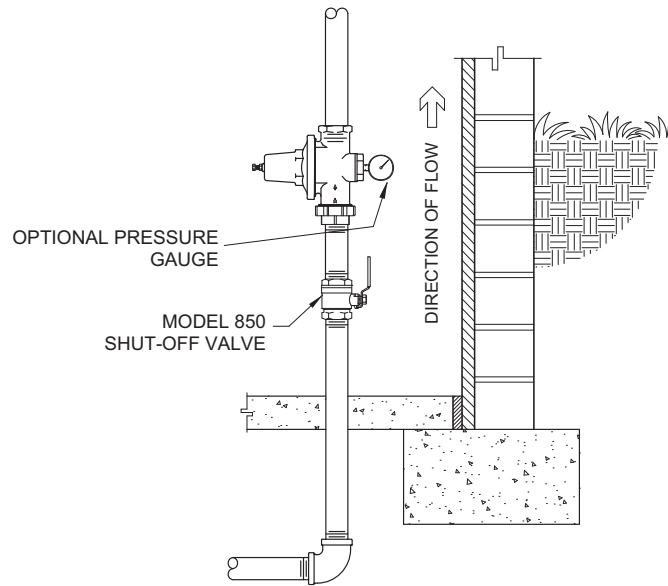
**MODEL 500XLHTSTSC 1/2" THRU 3" (STANDARD & METRIC)**



**Typical Installation**

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the manufacturers’ instructions and the latest edition of the Uniform Plumbing Code. The assembly shall be installed with sufficient side clearance for testing and maintenance. The Model 500XLHTSTSC may be installed in any position. If installed in a pit vault or hot water vertical riser, specify the “SC” sealed cage option. Multiple installations are recommend for wide demand variations or where the desired pressure reduction is more than 4 to 1 (i.e.: 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.



**Vertical Installation**

**Specifications**

The Pressure Reducing Valve shall be certified to NSF/ANSI 372, consisting of a low lead bronze body and bronze bell housing, a separate access cover for the plunger and a bolt to adjust the downstream pressure. The bronze bell housing and access cap shall be threaded to the body and shall not require the use of ferrous screws. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions. The assembly shall be accessible for maintenance without having to remove the body from the line. The Pressure Reducing Valve shall be a ZURN WILKINS Model 500XLHTSTSC.