# Model 500XL3DUBP

## Water Pressure Reducing Valve Double Union
## For use as a low flow bypass in parallel with larger valve

### Application
Zurn Wilkins model 500XL3DUBP designed for installation as a low flow bypass on potable water lines, for use in parallel with a larger pressure reducing valve. The model 500XL3DUBP includes restricting tailpieces to optimize function as a low flow bypass in parallel with a larger valve.

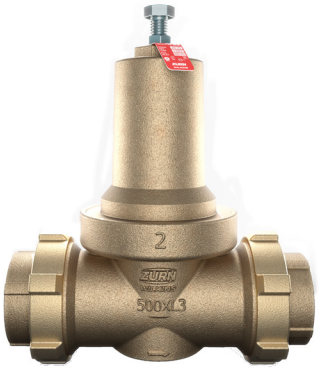
### Standards Compliance
- ASSE® Listed 1003
- cUPC® Listed
- CSA® Certified
- Meets the requirements of NSF/ANSI/CAN 61 & 372*

### Materials

| | |
|---|---|
| Main valve body | Low lead cast bronze ASTM B806 |
| Bell housing | Low lead cast bronze ASTM B806 |
| Fasteners | Stainless steel, 300 series |
| Stem | Stainless steel, 300 series |
| Plunger | Stainless steel, 300 series |
| Elastomers | Buna Nitrile (FDA approved)<br>EPDM (FDA approved) |
| Springs | Stainless steel, 300 series |
| Cartridge | Noryl™ |

### Features
Sizes: 1", 1 1/2", 2"

| | |
|---|---|
| Maximum working water pressure | 400 psi |
| Maximum working water temperature | 140° F |
| Reduced pressure range | 15 psi to 75 psi |
| Factory preset | 50 psi |
| Threaded connections (FNPT) | ANSI B1.20.1 |
| Copper connections (Female) | ANSI B16.22 |
| Flanged connections | ANSI B16.5 |



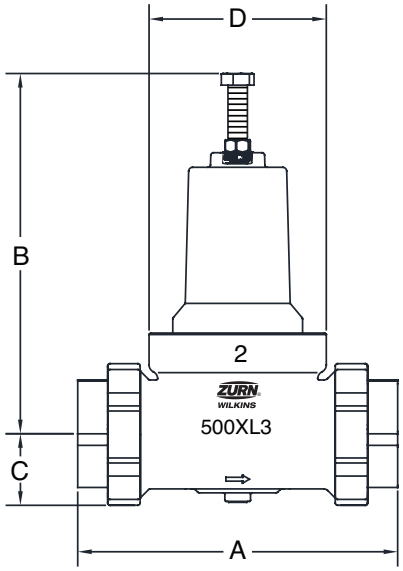

XL LEAD FREE

NSF/ANSI/CAN 61 & 372

**MODEL 500XL3DUBP**
Now tapped and Plugged
for Gauge Standard

### Options
(Suffixes can be combined)
- ☐ HR - high range, outlet adjust from 60 psi to 125 psi
- ☐ Y - with lead-free bronze "Y" strainer on inlet Y (300 psi strainer rating)
- ☐ G - tapped and plugged with gauge

### Accessories
☐ Repair 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 | 25 | DOUBLE UNION | 5 1/2 | 140 | 5 3/8 | 137 | 1 3/8 | 35 | 2 3/4 | 70 | 3.4 | 1.5 |
| 1 1/2 | 40 | DOUBLE UNION | 8 5/16 | 211 | 7 1/2 | 191 | 1 3/4 | 44 | 4 9/16 | 116 | 10.7 | 4.9 |
| 2 | 50 | DOUBLE UNION | 8 3/8 | 213 | 9 1/4 | 235 | 1 3/4 | 44 | 4 9/16 | 116 | 12.9 | 5.9 |

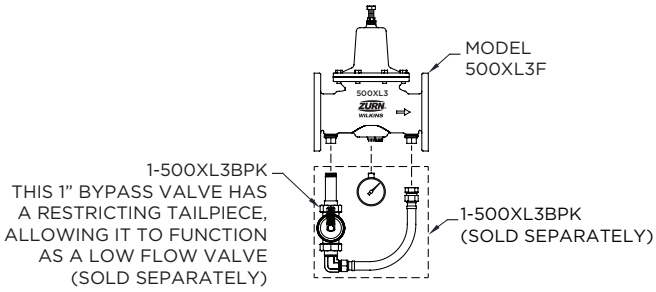
**Zurn Water, LLC | Wilkins**
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
**www.zurn.com**

Rev. F
Date: 11/25
Document No. REG-500XL3DUBP
Product No. Model 500XL3DUBP
Patent zurn.com/patents

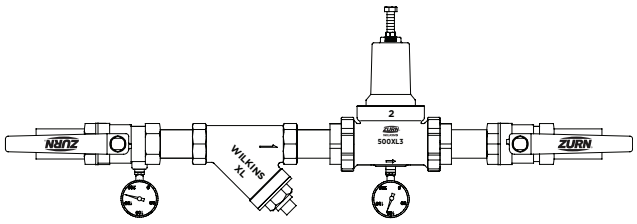
**Typical Installation**
(Installation & Maintenance Instruction Sheet)
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. The assembly shall be installed with sufficient side clearance for testing and maintenance. The Model 500XL3DUBP may be installed in any position. The Model 500XL3DUBP should be used as a parallel low flow bypass to handle flows according to table below. Set the bypass valve approximately 5 to 10 PSI higher than the large valve in a high-flow / low-flow parallel PRV battery. Multiple installations, in series (back to back) are recommended where the desired pressure reduction is more than 3 to 1 (ie: 150 psi inlet reduced to 50 psi outlet).

**Caution:** Anytime a pressure reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom-out adjustment bolt on bell housing.

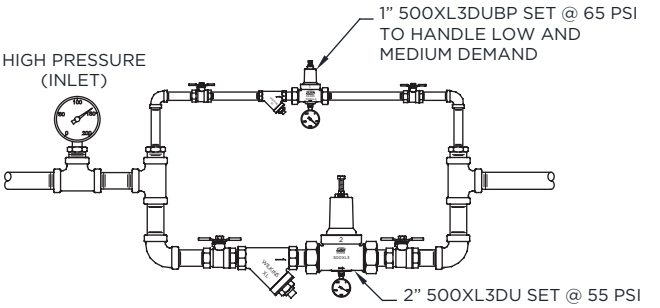
**Suggested Backflow Preventer Pairing:**
Model 950XL3 Double Check (Spec Sheet)
Model 975XL3 Reduced Pressure Principal (Spec Sheet)



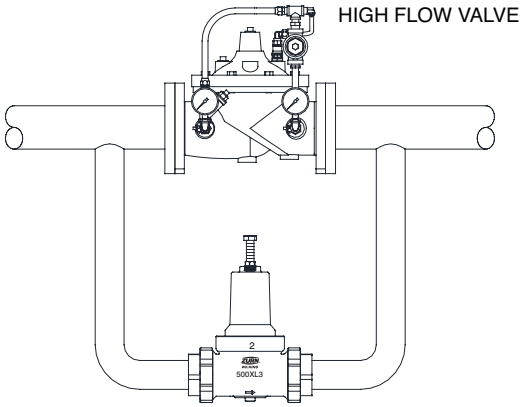

**INTEGRAL (KIT)**
**PARALLEL INSTALLATION**



**HORIZONTAL INSTALLATION**
Plumbing-Schedule




**PARALLEL INSTALLATION**




THIS 2" BYPASS VALVE HAS RESTRICTING TAILPIECES, ALLOWING IT TO FUNCTION AS A LOW FLOW VALVE

**PARALLEL INSTALLATION**

| SIZE | Difference between set points of large and bypass valve: 5 psi | Difference between set points of large and bypass valve: 10 psi | Suggested Valve Pairing |
|---|---|---|---|
| **1" 500XL3DUBP** | 20 gpm | 30 gpm | 2 1/2" - 4" 500XL3(F) |
| **1 1/2" 500XL3DUBP** | 45 gpm | 60 gpm | 4" ZW209 |
| **2" 500XL3DUBP** | 70 gpm | 95 gpm | 6" ZW209 |

**NOTE:** Maximum flow rates based on the pressure setting difference between bypass valve and large valve. Size bypass flow to meet minimum flow requirement of the large valve.

**Specifications** (Written Specification)
The Pressure Reducing Valve shall be certified to NSF/ANSI/CAN 61 & 372, consisting of a low lead silicon bronze body and silicon bronze bell housing, and a bolt to adjust the downstream pressure. The bronze bell housing shall be threaded to the body. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and and no-flow conditions with restricting tailpieces for ideal fall-off and low-flow bypass performance. The assembly shall be accessible for maintenance without having to remove the body from the line. Shall include a removable cartridge and corrosion resistant materials. The Pressure Reducing Valve shall be a ZURN WILKINS Model 500XL3DUBP.

**Zurn Water, LLC | Wilkins**
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
**www.zurn.com**