Model 500XL
Water Pressure Reducing Valve
with Integral By-pass Check Valve

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 high flow capacity makes this device most suitable for industrial water lines and commercial irrigation systems. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion. The balanced 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 (1/2" thru 2 1/2")
- IAPMO® Listed (1/2" thru 2")
- CSA® Certified (1/2" thru 2")
- City of Los Angeles Approved (1/2" thru 2")
- NSF® Listed - Standard 61 & 372*
- Certified to NSF/ANSI 372* by IAPMO R&T
  *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials
- Main valve body: Cast bronze ASTM B 584
- Access covers: Cast bronze ASTM B 584
- Fasteners: Low Lead Brass
- Stem & plunger: Cast bronze ASTM B 584
- Elastomers: Acetal (Delrin™ 500), NSF Listed
- Cap gaskets: Natural vulcanized fibre
- Springs: Oil tempered wire, ASTM A 229
- Seat: Stainless steel, 300 series

Features
- Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3" (Suffixes can be combined)
- Maximum working water pressure: 300 psi
- Maximum working water temperature: 140°F
- Reduced pressure range: 25 psi to 75 psi
- Factory preset (field set 2 1/2" & 3")
- spring range, factory set at 85 psi (field set 2 1/2" & 3")
- Spring range, factory set at 20 psi (1/2" - 1"")
- Spring range, factory set at 20 psi (2 1/2" & 3")
- Spring range, factory set at 85 psi (field set 2 1/2" & 3")
- SC - sealed cage bell housing and stainless steel adjustment screw
- SW - made for salt water service
- YSBR - with lead-free bronze “Y” strainer on inlet
- 510XL - 400 psi inlet rating and 75 psi to 125 psi spring range, factory set at 85 psi (field set 2 1/2" & 3")
- P - tapped and plugged for gauge
- G - with 0-100 psi gauge included
- CPVC - CPVC tailpiece connection (3/4"-1"")
- PF - with Z-Bite™ push fit connections (tailpiece inlet and integral outlet) 250 psi max pressure (1/2" - 1"")
- PR - with Z-Press™ press fit connections (tailpiece inlet and integral outlet) 250 psi max pressure (1/2" - 2"")

Options (Suffixes can be combined)
- standard with single union FNPT inlet x FNPT outlet (1/2" thru 2")
- copper sweat connection (1/2" thru 2")
- copper sweat strainer 3/4" & 1" only
- All other strainers are FNPT
- HR - 75 psi to 125 psi spring range, factory set at 85 psi (field set 2 1/2" & 3")
- HLR - 10 psi to 125 psi spring range, factory set at 50 psi
- HTSTSC - 180°F maximum temp, stainless steel trim, spring, sealed cage
- L - less integral by-pass check valve (3/4"-2")
- LPV - 180°F maximum temp with 10 psi to 35 psi spring range, factory set at 20 psi
- LPC - 140°F maximum temp with 10 psi to 35 psi spring range, factory set at 20 psi
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Accessories
- Repair kit (rubber only)

Dimensions & Weights (do not include pkg.)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CONNECTIONS</th>
<th>DIMENSIONS (approximate)</th>
<th>WEIGHT</th>
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<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
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<tr>
<td>in.</td>
<td>mm.</td>
<td>in.</td>
<td>mm.</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<tr>
<td>3</td>
<td>80</td>
<td>11 1/8</td>
<td>283</td>
</tr>
</tbody>
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Flow Characteristics

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 500XL.

Specifications
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