Model 500XLFC
Water Pressure Reducing Valve
with Flanged Connections

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 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.

Options (Suffixes can be combined)
- 510XLFC - 400 psi inlet rating, 75 psi to 125 psi spring range, field set
- FN - Navy drilled flange connection per MIL-P-3 Class 1
- FS - with cast iron “Y” type flanged strainer (2½” & 3” only)
- FSC - with cast iron “Y” type flanged strainer, fusion epoxy coated, inside and out (2½” & 3” only)
- SC - sealed cage for use in pit or vault
- SW - made for salt water service
- HR - spring range is 75-125 psi, field set
- HLR - spring range is 10-125 psi, field set
- HTSTSC - high temperature application, up to 180° F
- LPV - high temperature application, up to 180° F, spring range is 10-35 psi, factory set at 20 psi
- LPC - spring range is 10-35 psi, factory set at 20 psi
- BP - tapped and plugged for 3/4” bypass connection
- P - tapped and plugged for gauge
- TBP - with integral thermal by-pass check valve

Accessories
- Repair kit (rubber only)

Materials
- Body & cover: Low Lead Cast Bronze, ASTM B 806
- Bell housing: Cast Bronze, ASTM B 584
- Stem & plunger: Low Lead Cast Bronze, ASTM B 806
- Internals: Stainless steel, 300 Series
- Elastomers: EPDM (FDA approved)
- Buna Nitrile (FDA approved)
- Polymers: Delfin™, NSF Listed
- Springs: Oil tempered wire, ASTM A229, Epoxy Coated
- Cap gasket: Natural Vulcanized Fibre
- Seat: Stainless steel, 300 Series

Features
- Sizes: 2”, 2½”, 3”
- Maximum working water pressure: 300 psi
- Maximum working water temperature: 140° F
- Reduced pressure range (standard): 25 psi to 75 psi
- End connections (flanged): ANSI Class 125

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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>
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<td>A</td>
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<td>in.</td>
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<td>10</td>
<td>263</td>
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<td>10</td>
<td>263</td>
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<tr>
<td>3</td>
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<td>11</td>
<td>279</td>
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www.zurn.com
Rev. B
Date: 10/13
Document No. REG-500XLFC
Product No. Model 500XLFC
Flow Characteristics

MODEL 500XLFC 2" THRU 3" (STANDARD & METRIC)

FLOW RATES (l/s)

FLOW RATES (GPM)

FLOW RATES (l/s)

FLOW RATES (GPM)

FALL OFF (PSIG)

FALL OFF (kpa)

FLOW RATES (GPM)

FLOW RATES (l/s)

FLOW RATES (GPM)

FALL OFF (PSIG)

FALL OFF (kpa)

*Flow curves are based on a 50 psi pressure differential*

Typical Installation

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 500XLFC may be installed in any position. If installed in a pit or vault, or indoor application, specify the “SC” sealed cage option. Multiple installations are recommended 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.

Specifications

The Pressure Reducing Valve shall be ANSI 3rd party certified to comply with states’ lead plumbing law 0.25% maximum weighted average lead content requirement, consist of a bronze body and bell housing with flanged connections, shall have a separate access cover for the plunger and shall have a bolt to adjust the downstream pressure. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions. The bronze bell housing and access cap shall be threaded to the body and shall not require the use of ferrous screws. The Pressure Reducing Valve shall be a ZURN WILKINS Model 500XLFC.

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