Model NR3XL
Water Pressure Reducing Valve with Integral By-Pass Check Valve and Strainer

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 integral strainer makes this device most suitable for residential and commercial water systems that require frequent cleaning of sediment and debris. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion. 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
- Meets the requirements of NSF/ANSI 61* *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Dimensions & Weights (do not include pkg.)
- Cold water rated temp. 73.4°F @ 400 psi
- CPVC tailpiece: Max. hot water temp. 140°F @ 100 psi
- Copper connections (FC) ANSI B16.22
- Threaded connections (FNPT) ANSI B1.20.1
- Factory preset 50 psi
- Reduced pressure range (1-1/2" - 2") 25 to 75 psi
- Reduced pressure range (1/2" - 1-1/4") 15 to 75 psi
- Max. working water temperature 140°F
- Connection with SS spring & sealed cage
- Manufactured with materials meeting NSF/ANSI 61
- CSA® Certified
- IAPMO® Listed
- ASSE® Listed

Features
- Max. working water pressure (1/2" - 1-1/4") 400 psi
- Max. working water pressure (1-1/2" - 2") 300 psi
- Max. working water temperature 140°F
- Reduced pressure range (1/2" - 1-1/4") 15 to 75 psi
- Reduced pressure range (1-1/2" - 2") 25 to 75 psi
- Factory preset 50 psi
- Threaded connections (FNPT) ANSI B1.20.1
- Copper connections (FC) ANSI B16.22
- CPVC tailpiece: Max. hot water temp. 73.4°F @ 400 psi
- Cold water rated temp.

Materials
- Main valve body Low Lead Cast bronze ASTM B 584
- Bell housing UV resistant polymer composite
- Internals Stainless steel, 300 Series
- Stem Low Lead Brass
- Elastomers EPDM (FDA approved)
- Cartridge Delrin™
- Springs 302 Stainless Steel
- Buna nitrile (FDA approved)
- Internals Stainless steel, 300 Series
- Bell housing UV resistant polymer composite
- Main valve body Low Lead Cast bronze ASTM B 584

Options (Suffixes can be combined)
- standard with single union FNPT connection and 20 mesh strainer screen
- C - with FC (copper sweat) union connection
- DM - with double male 3/4" & 1" meter threads connection with SS spring & sealed cage
- G - tapped and plugged with gauge
- DU - with double union connection (FNPT)
- DULU - with 2 integral FNPT connection (no union)
- PEX - with male barbed connection tailpiece for crossed-linked polyethylene tubing (1/2" - 1" only) with male barbed connection PEX tailpiece conforming to ASTM F1960 (1/2" - 1" only)
- SC - with ss adjustment bolt and lock nut with ss spring for below-ground installations
- P - tapped and plugged for gauge
- CPVC - CPVC tailpiece connection (3/4" - 1"
- HRSC - High Range 15-150 psi (1/2"-1-1/4" only) with sealed cage
- DUPF - with 2 Z-Bite™ push fit tailpiece connection 250 psi max pressure (1/2" - 1" only)
- DUPR - with 2 Z-Press™ press fit tailpiece connection 250 psi max pressure (3/4" - 2" only)

Accessories
- Repair kit
- 3/4" NR3DUSPC
- 1-1/4" BR4DUSPC
- 1-1/2" NR3DUSPC
- 2" NR3DUSPC
- TPKXL
- TPKXLPF
- Z-Bite™ push fit tailpiece kit
- Lead-Free Tailpiece kit
- Z-Press™ press fit Tailpiece kit
- PEXF1960

Specifications

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<tr>
<th>SIZE</th>
<th>CONNECTIONS</th>
<th>DIMENSIONS (approx)</th>
<th>WEIGHT</th>
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<td>A in.</td>
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Flow Characteristics

MODEL NR3XL 1/2", 3/4" & 1" (STANDARD & METRIC)
FLOW RATES (l/s)

MODEL NR3XL 1-1/4", 1-1/2" & 2" (STANDARD & METRIC)
FLOW RATES (l/s)

"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 latest edition of the Uniform Plumbing Code. The Model NR3XL may be installed in any position. If installed in a pit, vault, or inside application, 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.

Specifications
The Water Pressure Reducing Valve shall be certified to NSF/ANSI 61 and ASSE® Listed 1003, available with single union, double union and less union end connections. The main body shall be low lead cast bronze (ASTM B 584) alloy. 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 ZURN WILKINS Model NR3XL.