

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
- NSF® Listed Standard 61. Annex G

Lead Plumbing Law Compliance

- *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)
- Lead Plumbing Law Certified by IAPMO R&T
- Annex G Certified by NSF International

Materials

| Materials | |
|-----------------|--------------------------------|
| Main valve body | Cast bronze ASTM B 584 |
| Bell housing | UV resistant polymer composite |
| Internals | Stainless steel, 300 Series |
| Stem | Brass ASTM B 371, UNS C69300 |
| Elastomers | EPDM (FDA approved) |
| | Buna nitrile (FDA approved) |
| Cartridge | Delrin™ (NSF Listed) |
| Springs | Oil temp wire, ASTM A 229 |
| Strainer screen | 300 Series Stainless Steel |
| Features | |

Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" Max. working water pressure (1/2" - 1-1/4") 400 psi Minimum inlet pressure = 80 psi as per UPC Code 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. 140°F @ 100 psi



Options (Suffixes can be combined)

| | - | standard with single union FNPT connection and |
|-----------|--------|--|
| | | 20 mesh strainer screen |
| | С- | with FC (copper sweat) union connection |
| | DM - | with double male 3/4" & 1" meter threads |
| _ | | connection with SS spring & sealed cage |
| | G - | tapped with gauge |
| | DU - | with double union connection (FNPT) |
| | LU - | with integral FNPT connection (no union) |
| | PEX - | with male barbed connection tailpiece for crossed-linked polyethylene tubing |
| _ | | |
| | SC - | with ss adjustment bolt and lock nut with ss spring |
| | | for below-ground installations |
| | Р- | tapped and plugged for gauge |
| \square | | CPVC tailpiece connection (3/4" - 1") |
| H | | |
| | пкэс - | High Range 15-150 psi (1/2"-1-1/4" only) with |
| | | sealed cage |

Accessories

73.4°F @ 400 psi

| Repair kit | |
|-----------------|-------------------------------|
| 1" BR4DUSPC | Special plastic spacer nipple |
| 1-1/4" BR4DUSPC | Steel pipe |
| 1-1/2" NR3DUSPC | Steel pipe |
| 2" NR3DUSPC | Steel pipe |
| TPKXL | Lead-Free Tailpiece kit |
| | |

Dimensions & Weights (do not include pkg.)

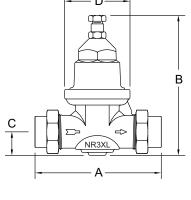
Cold water rated temp.

| SIZ | E | CONNECTIONS | DIMENSIONS (approximate) | | | | | | | | WEIGHT | |
|-------|----|-------------------|--------------------------|-----|-------|-----|--------|----|-------|----|--------|-----|
| | | | A | | В | | С | | D | | 1 | |
| in. | mm | | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 1/2 | 15 | SINGLE UNION | 4 3/8 | 111 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 1/2 | 15 | LESS UNION | 3 1/2 | 89 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 1/2 | 15 | DOUBLE UNION | 5 1/4 | 133 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 3/4 | 20 | SINGLE UNION | 4 7/16 | 113 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 3/4 | 20 | LESS UNION | 3 1/2 | 89 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 3/4 | 20 | DOUBLE UNION | 5 3/8 | 137 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 3/4 | 20 | DOUBLE MALE METER | 3 5/8 | 92 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3 | 1.5 |
| 1 | 25 | SINGLE UNION | 4 15/16 | 125 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 4 | 2 |
| 1 | 25 | LESS UNION | 4 | 102 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 3.5 | 1.6 |
| 1 | 25 | DOUBLE UNION | 5 15/16 | 151 | 6 1/4 | 159 | 1 1/8 | 29 | 2 1/2 | 64 | 45 | 2.1 |
| 1 | 25 | DOUBLE MALE METER | 4 | 102 | 7 3/4 | 197 | 1 3/16 | 30 | 3 | 76 | 4 | 2.0 |
| 1 1/4 | 32 | SINGLE UNION | 6 3/16 | 157 | 7 3/4 | 197 | 1 3/16 | 30 | 3 | 76 | 5.5 | 2.5 |
| 1 1/4 | 32 | LESS UNION | 5 | 127 | 7 3/4 | 197 | 1 3/16 | 30 | 3 | 76 | 5 | 2.3 |
| 1 1/4 | 32 | DOUBLE UNION | 7 3/8 | 187 | 7 3/4 | 197 | 1 3/16 | 30 | 3 | 76 | 6 | 2.7 |
| 1 1/2 | 40 | SINGLE UNION | 6 5/16 | 160 | 8 1/2 | 216 | 1 3/4 | 45 | 3 3/4 | 95 | 6.6 | 3 |
| 1 1/2 | 40 | LESS UNION | 5 | 127 | 8 1/2 | 216 | 1 3/4 | 45 | 3 3/4 | 95 | 5.5 | 2.5 |
| 1 1/2 | 40 | DOUBLE UNION | 7 1/2 | 191 | 8 1/2 | 216 | 1 3/4 | 45 | 3 3/4 | 95 | 7.7 | 3.5 |
| 2 | 50 | SINGLE UNION | 6 1/4 | 159 | 8 1/2 | 216 | 2 | 51 | 3 3/4 | 95 | 8.1 | 3.7 |
| 2 | 50 | LESS UNION | 5 | 127 | 8 1/2 | 216 | 2 | 51 | 3 3/4 | 95 | 6.7 | 3 |
| 2 | 50 | DOUBLE UNION | 7 1/2 | 191 | 8 1/2 | 216 | 2 | 51 | 3 3/4 | 95 | 9.5 | 4.3 |

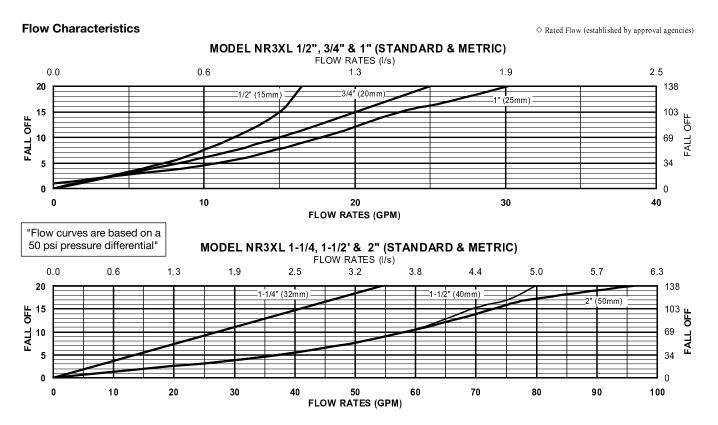
Zurn Industries, LLC | Wilkins

1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766 In Canada | Zurn Industries Limited

3544 Nashua Drive, Mississauga, Ontario L4V 1L2 Ph. 905-405-8272, Fax 905-405-1292

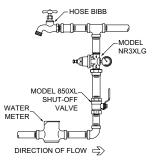


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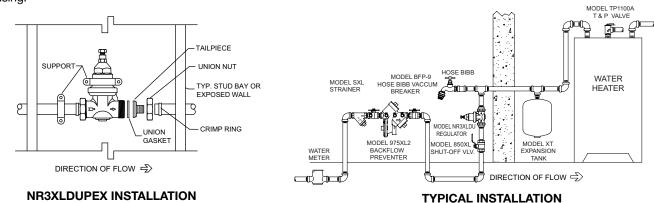


Typical Installation

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). <u>CAUTION:</u> 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.



OUTDOOR INSTALLATION



Specifications

The Water Pressure Reducing Valve shall be ANSI 3rd party certified to comply with states' lead plumbing law 0.25% maximum weighted average lead content requirement, 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 NSF® Listed acetal and incorporate an integral seat. The seat disc elastomer shall be NSF® Listed EPDM. The assembly shall be accessible for maintenance without removing the device from the line. The Water Pressure Reducing Valve shall be a WILKINS Model NR3XL.

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