

# **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. The sealed cage washer and stainless steel adjustment bolt and nut improve corrosion resistance for all applications including below-ground pit installation.

## **Standards Compliance**

- ASSE® Listed 1003
- · IAPMO® Listed
- · CSA® Certified
- Meets the requirements of NSF/ANSI 61\*
- \*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

## **Materials**

Main valve body Low Lead Cast bronze ASTM B 584 Bell housing UV resistant polymer composite Stainless steel, 300 Series Internals

Stem Low Lead Brass Elastomers EPDM (FDA approved)

Buna nitrile (FDA approved)

Delrin™ Cartridge

Springs 302 Stainless Steel 300 Series Stainless Steel Strainer screen

Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" 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. 140°F @ 100 psi 73.4°F @ 400 psi Cold water rated temp.





## **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 meter thread connections (3/4" and 1" only)

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 PEXF1960 conforming to ASTM F1960 (1/2" - 1" only)

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<sup>™</sup> push fit tailpiece connection 250 psi max pressure (1/2" - 1" only)

☐ DUPR - with 2 Z-Press<sup>™</sup> press fit tailpiece connection 250 psi max pressure (3/4" - 2" only)

### Accessories

Repair kit	
☐ 3/4" NR3DUSPC	Special plastic spacer nipple
☐ 1-1/4" BR4DUSPC	Steel pipe
☐ 1-1/2" NR3DUSPC	Steel pipe
2" NR3DUSPC	Steel pipe

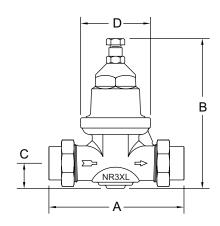
TPKXL Lead-Free Tailpiece kit Z-Bite™ push fit Tailpiece kit **TPKXLPF** 250 psi max pressure (1/2"-1" only) Z-Press™ press fit Tailpiece kit ☐ TPKXLPR 250 psi max pressure (3/4"-1" only) RFK-114NR3XL Extends body length of 1-1/4"

NR3XL to match 1-1/4" 70DU for

easy retrofit.

# Dimensions & Weights (do not include pkg.)

			DIMENSIONS (approximate)									
SIZE		CONNECTIONS	А		В		С		D		WEIGHT	
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	ROUGH IN	3 3/4	95	SAME AS LESS UNION							
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	ROUGH IN	3 3/4	95	SAME AS LESS UNION							
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	ROUGH IN	4 1/4	108	SAME AS LESS UNION							
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	4.5	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	ROUGH IN	5 1/4	133	SAME AS LESS UNION							
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	ROUGH IN	5 1/4	133	SAME AS LESS UNION							
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	ROUGH IN	5 1/4	133	SAME AS LESS UNION							
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



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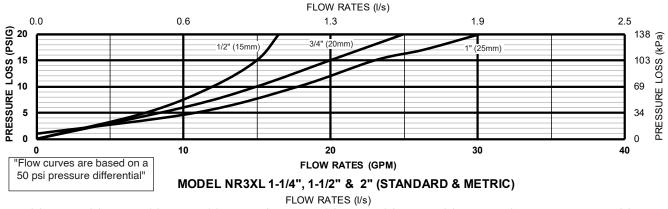
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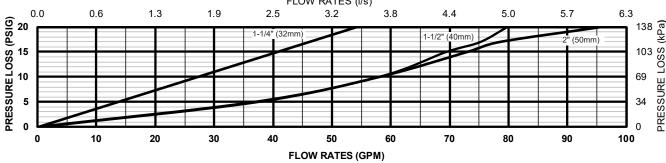
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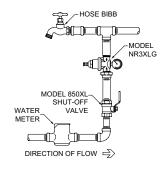
# MODEL NR3XL 1/2", 3/4" & 1" (STANDARD & METRIC)



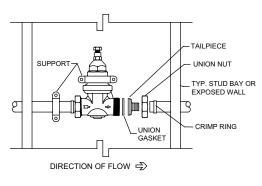


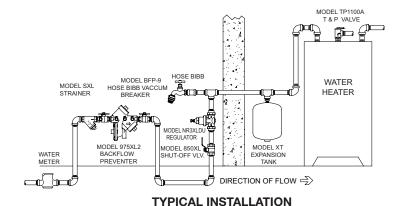
# **Typical Installation**

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. 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.



# **OUTDOOR INSTALLATION**





# NR3XLDUPEX INSTALLATION

## **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.