

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)

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)

Buna nitrile (FDA approved)

Delrin™ Cartridge

302 Stainless Steel Springs 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 Max. working water pressure (1-1/2" - 2") 300 psi 140°F Max. working water temperature 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 Cold water rated temp. 73.4°F @ 400 psi

Dimensions & Weights (do not include pkg.)

				[DIMENS	IONS (approxin	nate)				
SIZE		CONNECTIONS	Α		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	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	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	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







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

PEXF1960- with male barbed connection PEX tailpiece conforming to ASTM F1960

SC with ss adjustment bolt and lock nut with ss spring

for below-ground installations tapped and plugged for gauge CPVC - CPVC tailpiece connection (3/4" - 1")

High Range 15-150 psi (1/2"-1-1/4" only) with HRSC -

sealed cage

RFK-114NR3XL

□ 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) □DULUPF- with 2 integral Z-BiteTM push fit connections

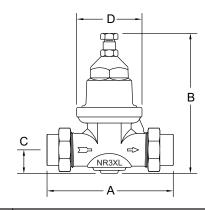
250 psi max pressure

DULUPR- with 2 integral Z-Press™ press fit connections

250 psi max pressure

Accessories							
	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					
	TPKXLPF	Z-Bite™ push fit Tailpiece kit					
		250 psi max pressure (1/2"-1" on					
	TPKXLPR	Z-Press™ press fit Tailpiece kit					

250 psi max pressure (3/4"-2" only) Extends body length of 1-1/4" NR3XL to match 1-1/4" 70DU for easy retrofit.



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Date: 11/16 Document No. REG-NR3XL Product No. Model NR3XL

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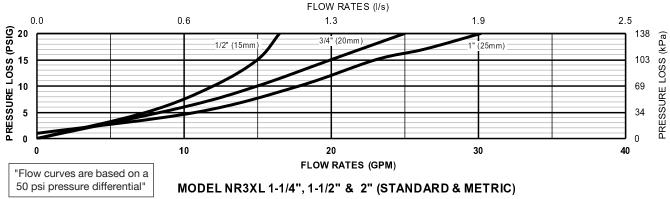
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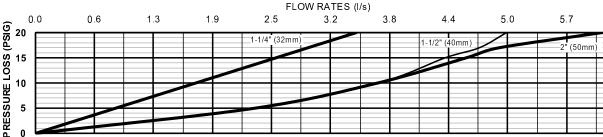
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100

PRESSURE LOSS

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





50

FLOW RATES (GPM)

60

70

40

Typical Installation

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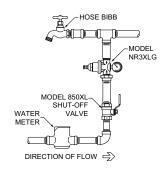
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Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. The Model NR3XL may be installed in any position. If installed in a pit, 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.

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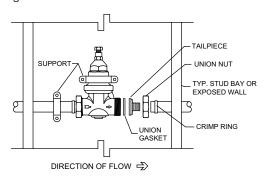
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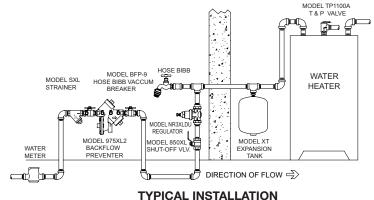


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OUTDOOR INSTALLATION





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.

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