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)
Cartridge	Delrin™
Springs	302 Stainless Steel
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
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
Cold water rated temp.	73.4°F @ 400 psi

Dimensions & Weights (do not include pkg.)

SIZ	F	CONNECTIONS DIMENSIONS (approximate)				WEIGHT						
012	-	CONNECTIONS	A		В		C C		D			
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

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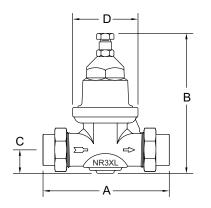
Options (Suffixes can be combined)

⊡`-sta	ndard with single union FNPT connection and						
	mesh strainer screen						
C - with	n FC (copper sweat) union connection						
	h double male 3/4" & 1" meter threads						
cor	nection with SS spring & sealed cage						
🗌 G - tap	ped and plugged with gauge						
DU - witl	with double union connection (FNPT)						
DULU - witl	with 2 integral FNPT connection (no union)						
PEX - wit	h male barbed connection tailpiece for						
	ssed-linked polyethylene tubing (1/2" - 1" only)						
PEXF1960 - wit	h male barbed connection PEX tailpiece						
cor	forming to ASTM F1960 (1/2" - 1" only)						
SC - with	n ss adjustment bolt and lock nut with ss spring						
	below-ground installations						
P - tap	ped and plugged for gauge						
CPVC - CP	VC tailpiece connection (3/4" - 1")						
HRSC - Hig	h Range 15-150 psi (1/2"-1-1/4" only) with						
sea	aled cage						
	n 2 Z-Bite™ push fit tailpiece connection						
) psi max pressure (1/2" - 1" only)						
	n 2 Z-Press™ press fit tailpiece connection						
) psi max pressure (3/4" - 2" only)						
	n 2 integral Z-Bite™ push fit connections						
) psi max pressure						
	n 2 integral Z-Press™ press fit connections						
) psi max pressure						
Accessories							
Repair kit							
1" BR4DUS							
1-1/4" BR4DUSPC Steel pipe							
1-1/2" NR3							
2" NR3DUS							
	Lead-Free Tailpiece kit						
TPKXLPF Z-Bite™ push fit Tailpiece kit							
	250 psi max pressure (1/2"-1" only)						
TPKXLPR	Z-Press™ press fit Tailpiece kit						

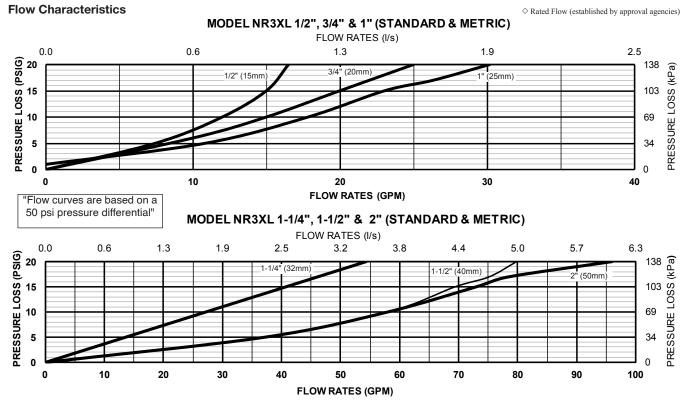
RFK-114NR3XL

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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.

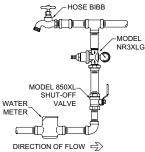


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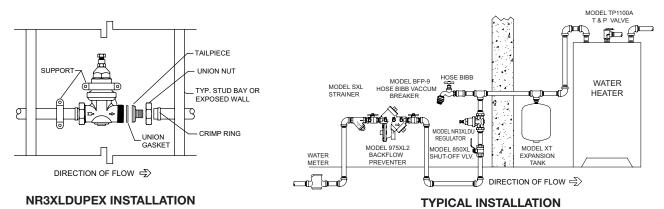


Typical Installation

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 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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