Model NR3XL



Water Pressure Reducing Valve with Integral

**By-Pass Check Valve and Strainer** 

400 psi

300 psi

15 to 75 psi

25 to 75 psi

ANSI B1.20.1

ANSI B16.22

140°F @ 100 psi

73.4°F @ 400 psi

140°F

50 psi

# 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 Bell housing	Low Lead Cast bronze ASTM B 584 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") Max. working water pressure (1-1/2" - 2") Max. working water temperature Reduced pressure range (1/2" - 1-1/4") Reduced pressure range (1-1/2" - 2") Factory preset Threaded connections (FNPT) Copper connections (FC) CPVC tailpiece: Max. hot water temp. Cold water rated temp.

## Dimensions & Weights (do not include pkg.)

			DIMENSIONS (approximate)									
SIZE		CONNECTIONS	A		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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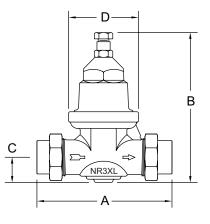
### Options

(Suffixes of	be combined)	
	standard with s	ingle union FNPT connection and
	20 mesh strain	er screen
□ C	with FC (coppe	er sweat) union connection
L DM		le 3/4" & 1" meter threads
_		n SS spring & sealed cage
		gged with gauge
		ion connection (FNPT)
		FNPT connection (no union)
L PEX		rbed connection tailpiece for
_		polyethylene tubing (1/2" - 1" only)
PEXF196		rbed connection PEX tailpiece
	•	ASTM F1960 (1/2" - 1" only)
		gged for gauge
		e connection (3/4" - 1")
		5-150 psi (1/2"-1-1/4" only) with
	sealed cage	
		push fit tailpiece connection
		essure (1/2" - 1" only)
		<sup>™</sup> press fit tailpiece connection
	250 psi max pr	essure (3/4" - 2" only)
A		

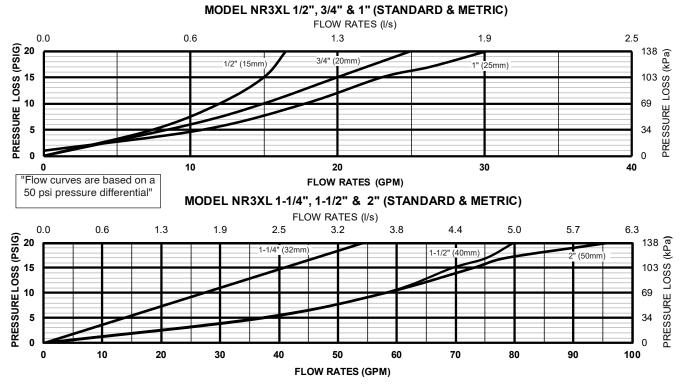
# Accessories

H	
	3/4" NR3DUSPC
	1-1/4" BR4DUSPC
	1-1/2" NR3DUSPC
$\square$	2" NR3DUSPC
$\square$	TPKXL
	TPKXLPF
	TPKXLPR
ΠF	RFK-114NR3XL

Special plastic spacer nipple Steel pipe Steel pipe Lead-Free Tailpiece kit 2-Bite™ push fit Tailpiece kit 250 psi max pressure (1/2"-1" only) 2-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.

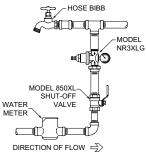


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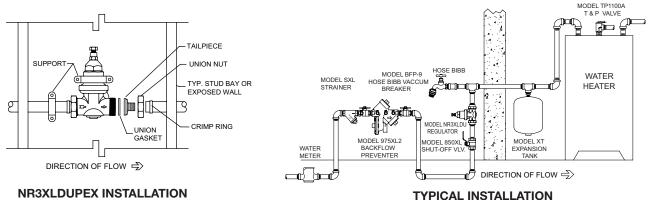


# **Typical Installation**

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.