Water Control Systems

NR3 Series PRV 15-50mm

Application

Zurn Wilkins Model NR3 is 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.

Multiple installations are recommended for wide demand variations or where the desired pressure reduction is more than 3 to 1.

Caution: Anytime a reducing valve is installed or adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Set pressure is based on a 1,000 kPa inlet pressure.

Standards Compliance

Australian Watermark

WATERMARK
AS 1357.2
LIC. WMKA01965

Materials

Main Valve Body	Low Lead Cast Bronze ASTM B 584
Bell Housing	UV Res. Polymer Composite
Internals	Stainless Steel
Stem	Low Lead Brass
Elastomers	Buna Nitrile, EPDM
Cartridge	Delrin™
Strainer Screen	Stainless Steel
Springs	Stainless Steel

Operating Parameters 15-32mm

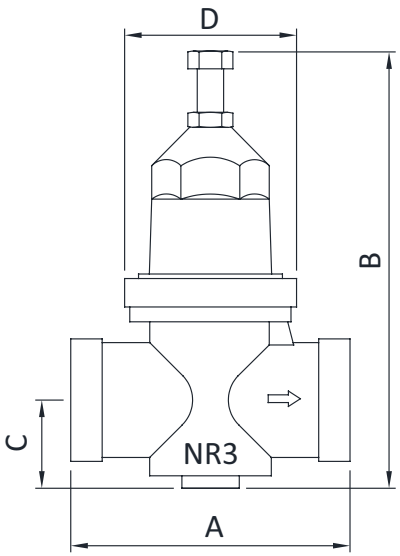
Max. Working Water Pressure	2700kPa
Max. Working Water Temperature	60°C
Reduced Pressure Range	100-515kPa
Factory Preset	500kPa
Maximum Reduction	3 to 1

Operating Parameters 40-50mm

Max. Working Water Pressure	2100kPa
Max. Working Water Temperature	60°C
Reduced Pressure Range	170-515kPa
Factory Preset	500kPa
Maximum Reduction	3 to 1

Dimensions & Weights (do not include pkg.)

MODEL SIZE	Zurn Codes	REECE CODES	DIMENSIONS				WEIGHT
			A	B	C	D	
mm			mm	mm	mm	mm	kg
15	15-NR3-500	108697	89	159	29	64	1.5
20	20-NR3-500	108581	89	159	29	64	1.5
25	25-NR3-500	108698	102	159	29	64	1.6
32	32-NR3-500	108699	127	197	30	76	2.3
40	40-NR3-500	180468	127	216	45	95	2.5
50	50-NR3-500	180466	127	216	51	95	3.0



Zurn Water, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Australia | Reece Group
57 Balmain Street, Cremorne VIC Australia 3121, Ph. 1800 080 055
zurn.com.au | reece.com.au

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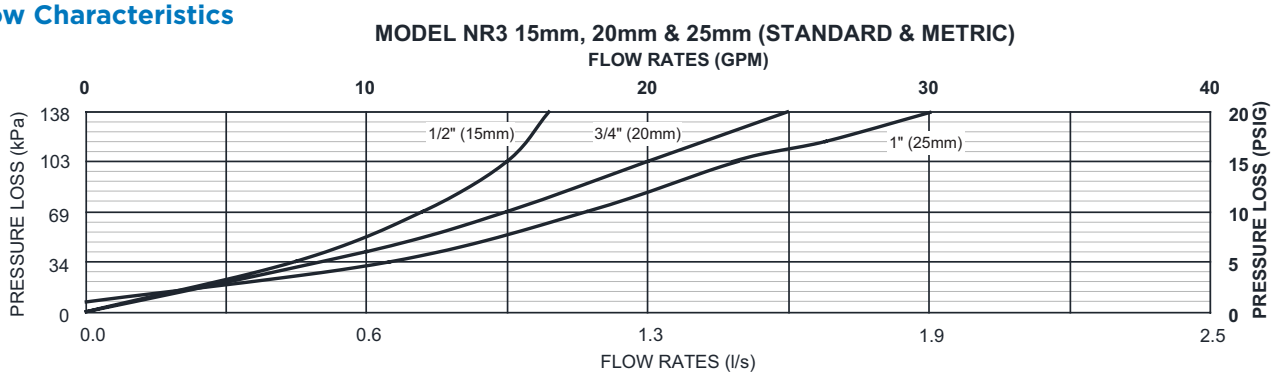
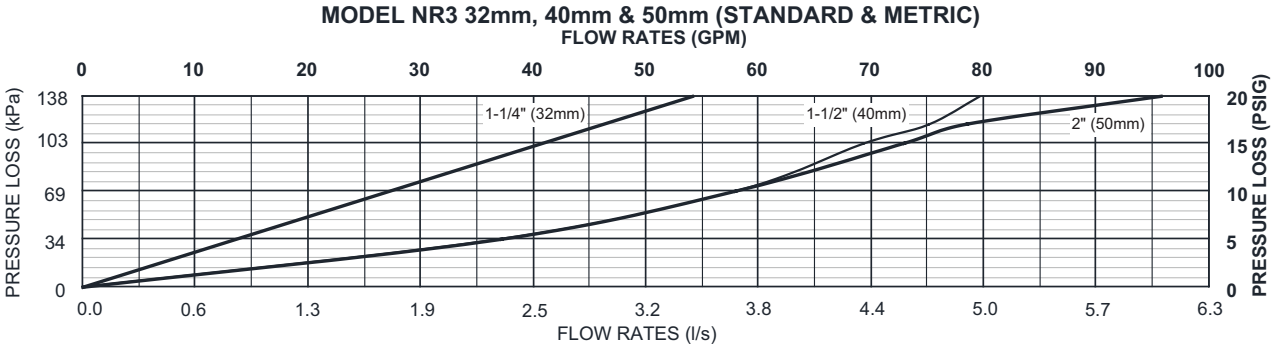
Flow Characteristics





Typical Installation

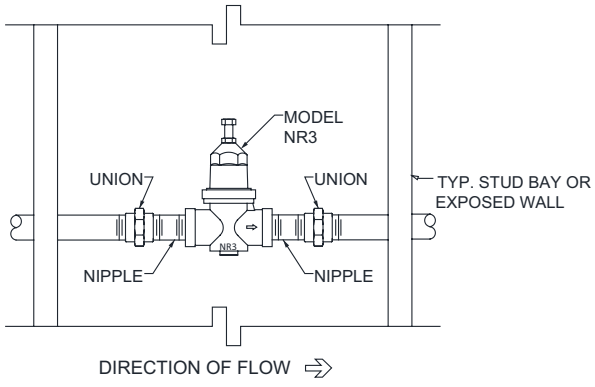
****Local codes shall govern installation requirements.****

Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the local codes.

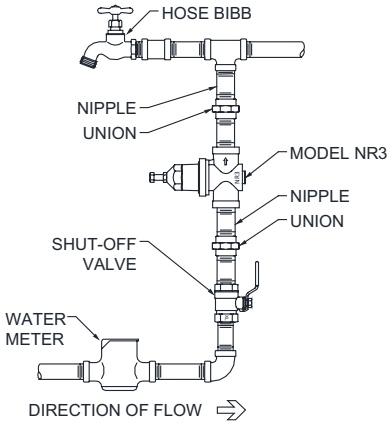
The Model NR3 may be installed in any position. The assembly shall be installed with sufficient side clearance for testing and maintenance. Multiple installations are recommended for wide demand variations or where the desired pressure reduction is more than 3 to 1 (ie: 1200kPa inlet reduced to 400kPa outlet). Minimum inlet pressure shall be at least 465kPa.

Caution: Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom out bolt on bell housing.

Regulators must be inspected and serviced (if required) annually to maintain suitable performance. Failure to do so may void warranty. It is recommended regulators are protected from water hammer as this can cause premature wear on the valves and is not covered by warranty.



INDOOR INSTALLATION



OUTDOOR INSTALLATION

Specifications

The Water Pressure Reducing Valve shall be AS 1357.2 certified. The main body shall be low lead cast bronze 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 Model NR3.

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