PRV15X, PRV20X, PRV25X

Installation Conditions

Maximum Supply Temperature	80ºC
Maximum Inlet Pressure	2000kPa
Fluid Media	Water

Operating Specifications

Factory Set Pressure	500kPa ± 10%
Adjustable Outlet Pressure	150-600kPa
Flow (Tested to AS 1357.2)	
DN15	18 L/min at 150kPa 60 L/min at 600kPa
DN20	20 L/min at 150kPa 110 L/min at 600kPa
DN25	35 L/min at 150kPa 120 L/min at 600kPa

Features

Connection Size	DN15, DN20, DN25
Gauge Port	G ¼”

Approvals

AS 1357.2	Lic WMKA0938

RMC Reliance® VALVES

Reliance Worldwide Corporation reserves the right to modify designs and specifications and to withdraw and introduce products at any time without notice.

Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500. This product is compliant to the Lead Free requirements of the National Construction Code Volume Three. For further Scope of Use, please visit www.rmc.com.au/resources.

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture within the warranty period. You may contact RWC at the phone number, address or e-mail shown and will be required to return the goods for evaluation. Should the defect be found to be one of our manufacture we will send you a replacement product to your stated address at our expense. Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

Part No. IS3060 | Rev. A | MKT-000056 | November 2023

Installation Instructions

PRV15X, PRV20X, PRV25X

PRESSURE REDUCING VALVE FOR NOMINAL SIZE:

DN15, DN20 & DN25

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RMC Reliance Valves is a division of
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RMC Reliance® VALVES

Lead Free

AS 1357.2
WMKA 0938

PRV15X, PRV20X, PRV25X

PRESSURE REDUCING VALVE FOR NOMINAL SIZE:

DN15, DN20 & DN25

Pressure Reducing Valves automatically reduce a high inlet pressure to a lower delivery pressure and maintain the lower pressure.

Installation Instructions

All installations must be carried out by a licensed plumber.

1. The RMC Pressure Reducing Valve is rated for continuous temperatures up to 80ºC and maximum inlet pressure of 2000kPa. The delivery pressure is adjustable in the range 150–600kPa and comes factory set at 500kPa.
2. Do not install the valve where it may become frozen. Freezing will cause damage to the valve components.
3. Do not apply gas torch heat so as to affect the valve.
4. Flush upstream pipeline to remove foreign material before installing the unit.
5. It is recommended that a line strainer be installed upstream from the valve.
6. The Pressure Reducing Valve should always be installed in an accessible location to facilitate removal for servicing.
7. Install the valve into the line, ensuring the direction of flow matches the arrow shown on the valve body.
8. Flush lines to remove entrapped air.
9. Only use lubricants suitable for EPDM materials e.g. Molykote 111 Silicone grease.
10. The valve is factory set at 500kPa delivery pressure. To increase the delivery pressure, turn the adjusting screw clockwise with a flat-bladed screwdriver. To decrease the delivery pressure, turn the adjuster screw anticlockwise.

A pressure gauge can be connected at the G 1/4" Gauge Port. When replacing gauge port plug take care not to damage 'O' Ring. Tighten to 5Nm.

Multi-storey Buildings Installation

Where multiple pressure reducing valves will be used as part of a hydraulic circuit, consideration should be given to the design of the hydraulic circuit to avoid the operating condition where combined high inlet pressure/low outlet flow-rate results in high water velocity within the Pressure Reducing Valve. Where inlet pressures are likely to exceed 1000 kPa, this may be achieved through staged pressure reduction measures.

Maintenance

The Pressure Reducing Valve assembly should be tested in accordance with AS 1357.2 after all maintenance work has been completed. If the valve does not function correctly, replace installation with new RMC Pressure Reducing Valve assembly or spare parts.

Removal and Inspection

1. Isolate water supply to the Pressure Reducing Valve.
2. Relieve pressure from both inlet and outlet of the Pressure Reducing Valve.
3. Turn the adjuster screw anticlockwise with a flat-bladed screwdriver until pressure Spring is no longer under tension.
4. Remove the Spring Chamber and then remove the Spring Button, Adjuster Screw and Spring.
5. Using pliers to grip the Diaphragm Screw pull Module out from the Valve Body.
6. Remove Strainer Screen from the Module. Clean Strainer Screen thoroughly and flush Valve Body to remove any foreign material.
7. Inspect all parts and replace if necessary.
8. Re-assemble parts in reverse order. Re-tighten Spring Cap using 20-30Nm torque.
9. Adjust the delivery pressure as outlined in the installation instructions.
10. Test the operation according to the standard AS 1357.2.
11. Once tested, return the RMC Pressure Reducing Valve assembly back to the installation referring to the installation instructions on facing page.
12. Open isolating valves.

Parts Diagram