High Pressure Reducing Valve

Scope of Use / Specification Sheet

The RMC High Pressure Reducing Valve is used in water systems to limit the downstream pressure to the pre-set maximum. A higher adjustable pressure range (600–1000kPa) allowing for staged installations.

### Features and Benefits

- Tool-free adjustment
- Convenient twist-cap simplifies pressure adjustment
- Protects downstream installations from excess supply pressure
- Reduces maintenance and repair costs on expensive equipment
- Simple single sieve cartridge based design
- Valve and strainer can be serviced without disassembly and without resetting pressure
- Dissipates noises due to water flow across the seat providing a quieter installation
- Integrated ¼” gauge ports provide a convenient access point for testing and setting pressure
- Can be installed in any orientation
- Suitable for a wide range of installation arrangements

### Product Code

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Catalogue Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustable 600-1000kPa Female BSP</td>
<td>32mm</td>
<td>PRV032-1000</td>
</tr>
<tr>
<td>Adjustable 600-1000kPa Female BSP</td>
<td>40mm</td>
<td>PRV040-1000</td>
</tr>
<tr>
<td>Adjustable 600-1000kPa Female BSP</td>
<td>50mm</td>
<td>PRV050-1000</td>
</tr>
</tbody>
</table>

### Materials

- **Body**: Forged Brass
- **Spring Chamber**: Nylon
- **Adjusting Spring**: Stainless Steel (zinc plated)
- **Pressure Plate**: Stainless Steel (zinc plated)
- **Diaphragm**: EPDM
- **Body Seat**: Polysulfone
- **Seat Disc**: EPDM
- **Piston**: Stainless Steel/Brass
- **Strainer Screen**: Stainless Steel

### Installation

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 3500.1.
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Application

The RMC High Pressure Reducing Valve (PRV) compensates for fluctuating upstream pressure to maintain constant maximum outlet pressure. Features of the valve make it most suitable for demanding commercial and industrial applications and multi-unit dwellings. The valve is designed where the need to stage reduction valves to achieve a desired outlet pressure is required.

The valve can be used to reduce pressure upstream of commercial and industrial devices such as dosing apparatuses, high pressure cleaners and laboratory equipment. The valve delivers high flow rates with minimal head loss and is available in 32mm – 50mm configurations with female BSP thread connections.

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Width (W)</th>
<th>Height (H)</th>
<th>Outlet Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>32mm</td>
<td>114</td>
<td>216</td>
<td>DN32</td>
</tr>
<tr>
<td>40mm</td>
<td>130</td>
<td>226</td>
<td>DN40</td>
</tr>
<tr>
<td>50mm</td>
<td>140</td>
<td>226</td>
<td>DN50</td>
</tr>
</tbody>
</table>

Note: All measurements in mm unless otherwise stated.

Flow Characteristics

PRV032-1000

Inlet pressure 1000kPa – Outlet set pressure 800kPa

PRV040-1000

Inlet pressure 1000kPa – Outlet set pressure 800kPa

PRV050-1000

Inlet pressure 1000kPa – Outlet set pressure 800kPa
High Pressure Reducing Valve

Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Operating Pressure Range</td>
<td>600-1600kPa</td>
</tr>
<tr>
<td>Multiple Installation Operating Pressure Range</td>
<td>500-1600kPa*</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>2000kPa</td>
</tr>
<tr>
<td>Maximum Supply Temperature</td>
<td>80°C</td>
</tr>
<tr>
<td>Adjustable Outlet Pressure Range</td>
<td>600-1000kPa</td>
</tr>
<tr>
<td>Factory Set Pressure</td>
<td>800kPa ± 10%</td>
</tr>
<tr>
<td>Fluid Media</td>
<td>Water</td>
</tr>
</tbody>
</table>

Warranty

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 below for further information or to make a claim.


Notes

*The RMC High Pressure Reducing Valve is designed to be adjusted under higher inlet pressures making it suitable for staging high inlet pressures experienced in multi-storey buildings. The recommended step down ratio is 2:1. Consideration must be given to the system the valve is being installed in and the operating conditions.

Standards and Approvals

AS 1357.2
WMKA2532