Compact Pressure Reducing Valve

Scope of Use / Specification Sheet

The RMC Pressureguard® Compact Pressure Reducing Valve is used in water systems to limit the downstream pressure to the pre-set maximum. Easy serviceability and robust design makes the Pressureguard® a premium valve on the market.

### Product Code

<table>
<thead>
<tr>
<th>Model</th>
<th>Catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>15mm</td>
<td>PRV15</td>
</tr>
<tr>
<td>20mm</td>
<td>PRV20</td>
</tr>
<tr>
<td>25mm</td>
<td>PRV25</td>
</tr>
</tbody>
</table>

### Materials

- **Body**: Forged brass
- **Spring chamber**: Epoxy coated zinc alloy
- **Adjusting screw**: Brass
- **Pressure plate**: Steel (zinc plated)
- **Diaphragm**: EPDM
- **Seat Disc**: EPDM
- **Piston**: DZR brass
- **Strainer**: Stainless steel
- **O-Ring**: EPDM
- **Cartridge case**: mPPE (polyphenylene ether)

### Features and Benefits

- Adjustable outlet pressure set
- High flow capacity with minimal head loss
- Suitable for entire residential installations
- Robust design and construction
- Protects downstream installations from excess supply pressure
- Reduces maintenance and repair costs on expensive equipment
- Compact cartridge based design
- Valve and strainer can be serviced without disassembly
- No special tools required for maintenance or adjustment
- Simple screw adjustment mechanism
- Can be installed in any orientation

### Technical Specifications

- **Recommended Operating Pressure Range**: 500 – 1600kPa
- **Multiple Installation Operating Pressure Range**: 500 – 1000kPa
- **Maximum Inlet Pressure**: 2000kPa
- **Maximum Supply Temperature**: 80°C
- **Adjustable Outlet Pressure Range**: 150 – 600kPa
- **Factory Set Pressure**: 500kPa ± 10%
- **Fluid Media**: Water

### Standards and Approvals

- AS 1357.2
- WMKA0938
- SAI GLOBAL

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The RMC Pressureguard® Compact Pressure Reducing Valve is suitable for use in residential installations. The valve maintains a constant maximum outlet pressure to protect downstream installations from variations in supply pressure. Installing a Pressure Reducing Valve can minimise water wastage.

Incorporating the latest technologies into the modular designed compact PRV, the valve is suited for installations in areas with limited access.
**Compact Pressure Reducing Valve**

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRV 15mm Female</td>
<td>43</td>
<td>80</td>
<td>94</td>
<td>76</td>
<td>80</td>
<td>RP½</td>
<td>G¼</td>
</tr>
<tr>
<td>PRV 20mm Female</td>
<td>43</td>
<td>77</td>
<td>93</td>
<td>76</td>
<td>79</td>
<td>RP½</td>
<td>G¼</td>
</tr>
<tr>
<td>PRV 25mm Female</td>
<td>43</td>
<td>74</td>
<td>93</td>
<td>79</td>
<td>81</td>
<td>RP1</td>
<td>G¼</td>
</tr>
</tbody>
</table>

**Note:** All measurements in mm unless otherwise stated.

### Flow Rates

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate (L/min)</th>
<th>Pressure Drop (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN15</td>
<td>18</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>600</td>
</tr>
<tr>
<td>DN20</td>
<td>20</td>
<td>150</td>
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<tr>
<td></td>
<td>118</td>
<td>600</td>
</tr>
<tr>
<td>DN25</td>
<td>35</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>600</td>
</tr>
</tbody>
</table>

### Multi-Storey Buildings

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 1000kPa, this may be achieved through staged pressure reduction measures.

### 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.

### 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.