Compact Right Angled PRV
Scope of Use / Specification Sheet

The RMC PressureGuard® Compact Right Angle Pressure Reducing Valve is used in water systems to limit the downstream pressure to the pre-set maximum. This valve is not adjustable and is ideally suited for boundary installations.

### Product Code

<table>
<thead>
<tr>
<th>Model</th>
<th>Catalogue Number</th>
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<tbody>
<tr>
<td>Right Angle Compact PRV 20mm</td>
<td>PRV20R</td>
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</tbody>
</table>

### Materials

- **Body**: Forged brass
- **Spring chamber**: Epoxy coated zinc alloy
- **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

- Fixed 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
- No special tools required for maintenance
- Can be installed in any orientation

### Description

The RMC PressureGuard® Compact Right Angle Pressure Reducing Valve incorporates the latest technologies into the modular design. Easy serviceability and robust design makes the Right Angled PRV a premium valve on the market. It is available in a 20mm configuration.

### Application

The RMC PressureGuard® Compact Right Angle 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.
Compact Right Angled PRV

**Dimensions**

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Angled PRV 20mm</td>
<td>43</td>
<td>40</td>
<td>92</td>
<td>36.5</td>
<td>58</td>
</tr>
</tbody>
</table>

**Technical Specifications**

- **Recommended operating pressure range**: 500–1600kPa
- **Maximum inlet pressure**: 2000kPa
- **Maximum supply temperature**: 80°C
- **Factory set pressure**: 500kPa ±10%
- **Fluid media**: Water

**Flow Characteristics**

![Flow Characteristics Graph]

**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.

**Standards and Approvals**

- **AS 1357.2**
- **WMKA0938**

**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.