

# 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 preset maximum. Easy serviceability and robust design makes the PressureGuard® a premium valve on the market.



PRV15, PRV20, PRV25

### Product Code

Model	Product Code
15mm	PRV15
20mm	PRV20
25mm	PRV25

### 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)

### Application

The RMC PressureGuard® Compact Pressure Reducing Valve is suitable for use in residential and multilevel 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.

### 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



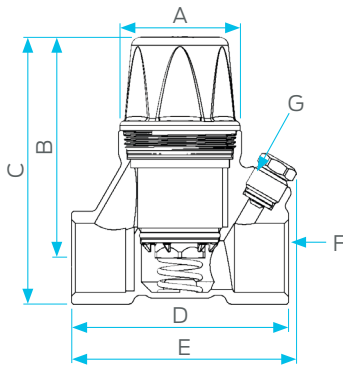
AS 1357.2  
WMKA0938  
SAI GLOBAL

# Compact Pressure Reducing Valve

## Dimensions

Model	A	B	C	D	E	F	G
PRV 15mm Female	43	80	94	76	80	RP½	G¼
PRV 20mm Female	43	77	93	76	79	RP¾	G¼
PRV 25mm Female	43	74	93	79	81	RP1	G¼

Note: All measurements in mm unless otherwise stated.



## 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.

- If installing in-ground, valve must be protected by an approved box (should not be buried)
- Avoid the use of garden fertiliser around the installation

## Warranty

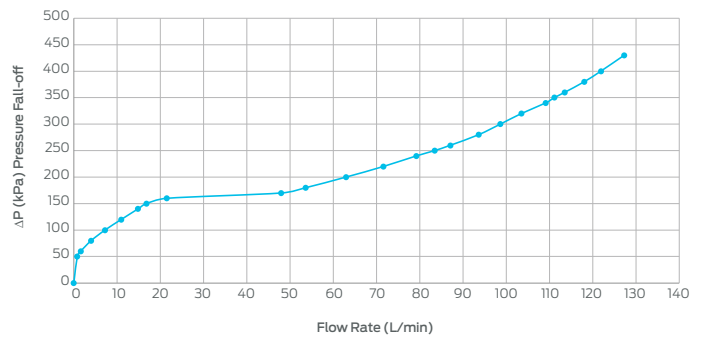
Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture within the warranty period. You may contact RWC at the phone number, address or e-mail shown below for further information or to make a claim.

Visit [www.rmc.com.au/warranty](http://www.rmc.com.au/warranty) to view the warranty statement in full and for further important information.

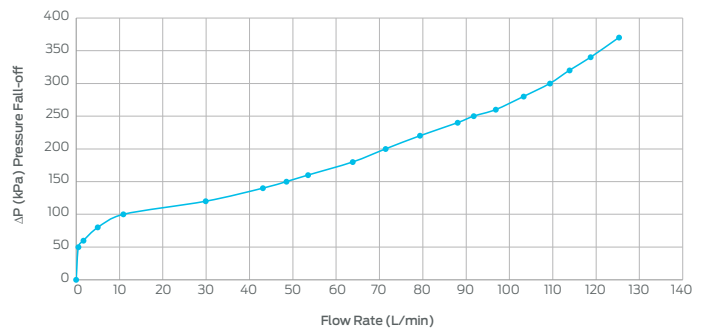
## Flow Rates

DN15	18L/min	150kPa
	60L/min	600kPa
DN20	20L/min	150kPa
	110L/min	600kPa
DN25	35L/min	150kPa
	120L/min	600kPa

PRV15 Flow vs Pressure Drop  
1000kPa Inlet Pressure – Outlet Set Pressure 500kPa



PRV20 Flow vs Pressure Drop  
1000kPa Inlet Pressure – Outlet Set Pressure 500kPa



PRV25 Flow vs Pressure Drop  
1000kPa Inlet Pressure – Outlet Set Pressure 500kPa

