

PRESSURE REDUCING VALVE

RMC water
valves

The RMC Pressure Reducing Valve is used in water systems to limit the downstream pressure to the pre-set maximum.

Catalogue Numbers

Model	Catalogue
Adjustable 155-550kPa 15mm Female BSP	PRV015
Adjustable 155-550kPa 20mm Female BSP	PRV020
Adjustable 155-550kPa 25mm Female BSP	PRV025
Adjustable 155-550kPa 32mm Female BSP	PRV032
Adjustable 155-550kPa 40mm Female BSP	PRV040
Adjustable 155-550kPa 50mm Female BSP	PRV050



Description

The RMC Pressure Reducing Valve (PRV) compensates for fluctuating upstream pressure to maintain constant maximum outlet pressure. Features of the PRV make it most suitable for demanding commercial and industrial applications and multi-unit dwellings. It can be used to reduce pressure upstream of commercial and industrial devices such as dosing apparatuses, high pressure cleaners and laboratory equipment. The PRV delivers high flow rates with minimal head loss and is available in 15-50mm configurations with female BSP thread connections.

Application

The RMC Pressure Reducing Valve is for use in industrial and commercial installations. Fitting the valve at the mains supply protects downstream installations from variations in supply pressure. Use of a Pressure Reducing Valve can minimise water wastage.

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 1/2" 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



AS1357.2 LIC WMKA 2532
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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	155-550kPa
Factory Set Pressure	500kPa \pm 10%
Fluid Media	Water

Materials

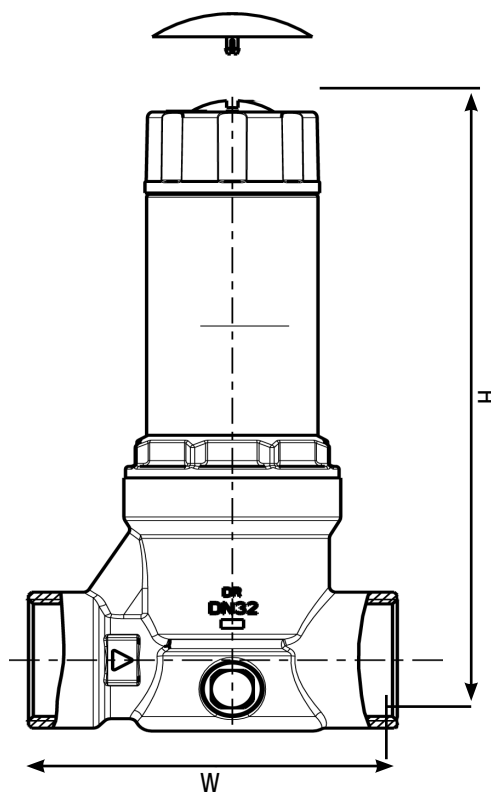
Body	Forged Brass
Spring Chamber	Nylon
Adjusting Spring	Stainless Steel (zinc plated)
Pressure Plate	Stainless Steel (zinc plated)
Diaphragm	EPDM
Body Seat	Polysulfone
Seat Disc	EPDM
Piston	Stainless Steel/Brass
Strainer Screen	Stainless Steel

Notes

*Installation Suggestion: 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.

Dimensions

Model	Width (W)	Height (H)	Outlet Size
Adjustable 155-550kPa 15mm	73	120	DN15
Adjustable 155-550kPa 20mm	75	120	DN20
Adjustable 155-550kPa 25mm	100	150	DN25
Adjustable 155-550kPa 32mm	114	216	DN32
Adjustable 155-550kPa 40mm	130	226	DN40
Adjustable 155-550kPa 50mm	140	226	DN50



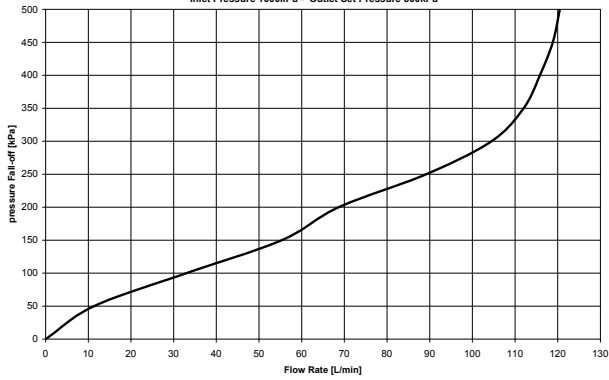
PRESSURE REDUCING VALVE



Flow Characteristics

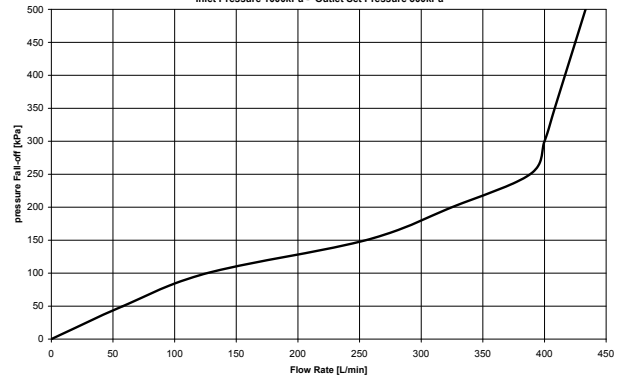
FLOW CHART PRV015

Inlet Pressure 1000kPa - Outlet Set Pressure 500kPa



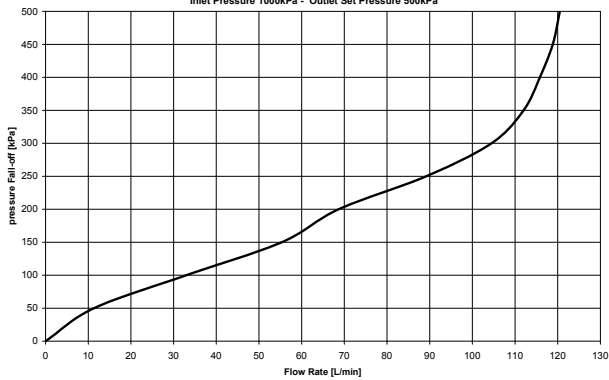
FLOW CHART PRV032

Inlet Pressure 1000kPa - Outlet Set Pressure 500kPa



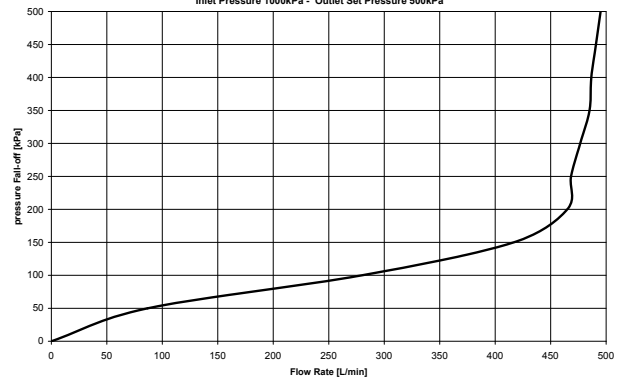
FLOW CHART PRV020

Inlet Pressure 1000kPa - Outlet Set Pressure 500kPa



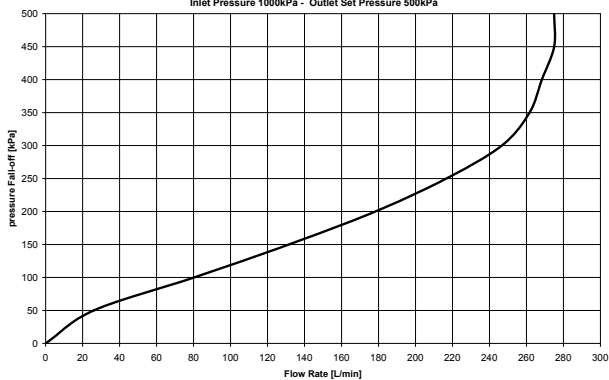
FLOW CHART PRV PRV040

Inlet Pressure 1000kPa - Outlet Set Pressure 500kPa



FLOW CHART PRV025

Inlet Pressure 1000kPa - Outlet Set Pressure 500kPa



FLOW CHART PRV050

Inlet Pressure 1000kPa - Outlet Set Pressure 500kPa

