

EB45 Pressure Reducing Valve

Description

The RMC EB45 Pressure Reducing Valve is used in water systems to limit the downstream pressure to the pre-set maximum. It compensates for fluctuating upstream pressure to maintain constant maximum outlet pressure.

Features of the EB45 Pressure Reducing Valve make it most suitable for reducing pressure at the boundary of a domestic installation. The RMC EB45 Pressure Reducing Valve can deliver high flow rates with minimal head loss.

The RMC EB45 Pressure Reducing Valve is available in both adjustable pressure (150-600 kPa) and pressure locked at 500 kPa, with 20 mm and 25 mm with female BSP thread connections in both straight and elbow configurations.

Features and Benefits

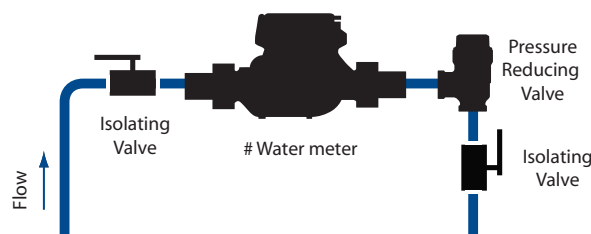
- ❖ Locked and adjustable configurations
 - » Flexible option for custom installations or simple installation where a standard pressure is required
- ❖ High flow capacity
 - » Suitable for entire residential installations
- ❖ Robust design and construction
 - » Able to withstand heavy flow conditions
- ❖ Protects downstream installations from excess supply pressure
 - » Reduces maintenance and repair costs on expensive equipment
- ❖ Compact cartridge based design
 - » Valve and strainer can be exchanged without disassembly and without special tools
- ❖ Reduced water consumption
 - » Improved economy of service with ecological benefits



Application

The RMC EB45 Pressure Reducing Valve is for use in residential 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.

Recommended Installation for EB Series Pressure Reducing Valve

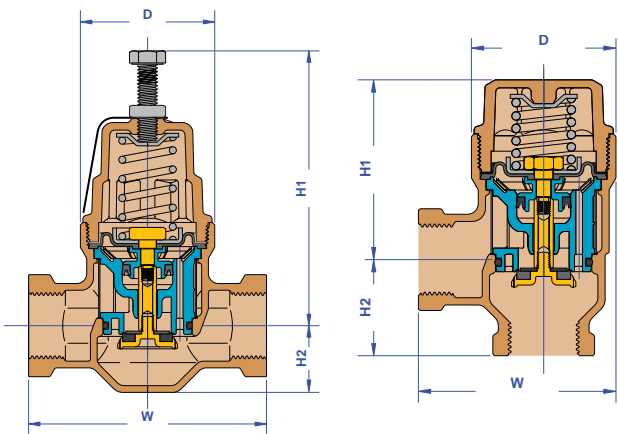


If water meter used does not have integrated check valve it is recommended to install a backflow preventer between water meter and pressure reducing valve

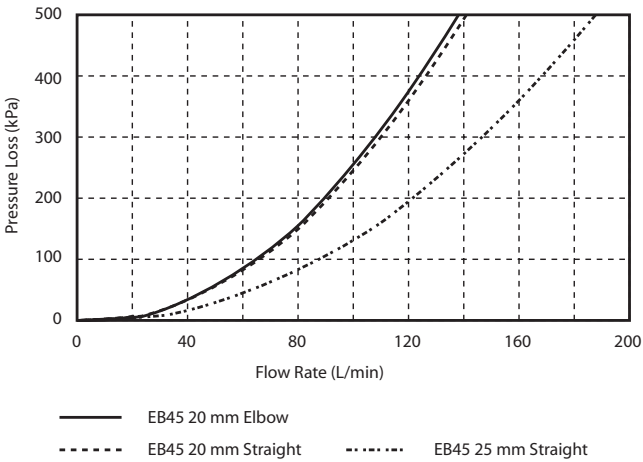
EB45 Pressure Reducing Valve

Specification

| | |
|----------------------------------|---|
| Maximum inlet pressure: | 2000 kPa |
| Maximum supply temperature: | 80° C |
| Adjustable outlet pressure range | 150 – 600 kPa (500 kPa in pressure locked configuration) |
| Fluid Media | Water, compressed air, fuel oil, neutral non-adhesive fluids, neutral gases |



Flow Characteristics



Dimensions

| Model | W | H1 | H2 | D |
|--|-------|-------|------|------|
| EB45 Adjustable 150-600 kPa 20 mm Female BSP Straight Configuration | 95.6 | 110.4 | 26.8 | 54.0 |
| EB45 Locked at 500 kPa 20 mm Female BSP Straight Configuration | 95.6 | 67.1 | 26.8 | 54.0 |
| EB45 Locked at 500 kPa 20 mm Female BSP Right-Angled Elbow Configuration | 73.8 | 67.1 | 35.9 | 54.0 |
| EB45 Adjustable 150-600 kPa 25 mm Female BSP Straight Configuration | 107.6 | 110.4 | 26.8 | 54.0 |

NB: All dimensions in millimeters unless otherwise stated.

Materials

| | |
|-----------------|---------------------|
| Body | Cast gunmetal |
| Spring Chamber | Gray Iron |
| Adjusting Screw | Steel (zinc plated) |
| Pressure Plate | Steel (zinc plated) |
| Diaphragm | Nylon |
| Seat Disc | EPDM |
| Piston | Brass |
| Strainer Screen | Stainless Steel |
| O-Ring | EPDM |
| Cartridge Case | Polysulphone |

Catalogue Numbers

| Model | Catalogue Number |
|--|------------------|
| EB45 Adjustable 150-600 kPa 20 mm Female BSP Straight Configuration | PRV4520 |
| EB45 Locked at 500 kPa 20 mm Female BSP Straight Configuration | PRV45201 |
| EB45 Locked at 500 kPa 20 mm Female BSP Right-Angled Elbow Configuration | PRV4520R |
| EB45 Adjustable 150-600 kPa 25 mm Female BSP Straight Configuration | PRV4525 |