

MxM Union DZR Brass Pressure Reducing Valve

Description

The Brymec Pressure Reducing Valve (PRV) with diaphragm reduces and stabilizes fluid pressure in a water distribution system according to a preset value. PRVs are used in all types of buildings for sanitary installations, hydronic heating and cooling systems, irrigation and for the distribution of compressed air*.



Features & Benefits

- Fully serviceable and easy to maintain.
- Features an integral strainer preventing debris from affecting valve's performance.
- Polyamide reinforced, Perox EPDM for greater durability in hot water applications.
- A pressure gauge can be added to measure outlet pressure for each valve.
- High quality DZR brass body.
- Male union pipe connections make a fast, simple installation and also allow the valve to be easily removed.
- It is recommended to install isolation valves upstream and downstream of the valve to allow for easy removal.
- WRAS and KIWA approved to 80°C for drinking water applications.

Technical Features

Pressure

Maximum allowable working pressure (PN)	25 bar
Outlet settings (Ps)	From 1 to 6 bar
Ps value set during testing	3 bar
Outlet Ps set tolerance on varying inlet pressure	According to EN 1567

Temperature

Working temperature	0°C (with Glycol mix) to 80°C
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Compatible Mediums

Water	Potable water, heating water, or chilled water which may contain up to 50% Glycol
Compressed air	*Category 1 compressed air only

Connections

Pipeline connection	Thread type R according to BS EN 10226-1
Gauge connection	1/4" Thread type Rp according to BS EN 10226-1

Design

Name	Material
Body	Brass CW625N (DZR)
Plug	Brass CW625N (DZR)
Bonnet	Glass fibre reinforced polyamide
Head frame	Resin POM
Filtering cartridge	Stainless steel AISI 304 with filtration rating <500 µm
Calibration spring	Galvanized steel EN10270-1
Nuts	Brass CW617N
Dismantling fittings	Brass CW626N (DZR)
Other components in contact with water	Brass CW626N (DZR)
Other components not in contact with water	Brass CW614N
Diaphragm	Perox EPDM rubber with polyamide fabric reinforcement
Seat gaskets and o-rings	Perox EPDM rubber
Flat union washers	Pressed fibre

Standards

- BS EN 1567
- WRAS - 240104702
- KIWA KUKReg4 - 2311724



1. Adjustment head with ergonomic grip
2. Setting scale repeated 3 times
3. Removable & replaceable cartridge
4. 1/4" pressure gauge connections on both sides of the valve



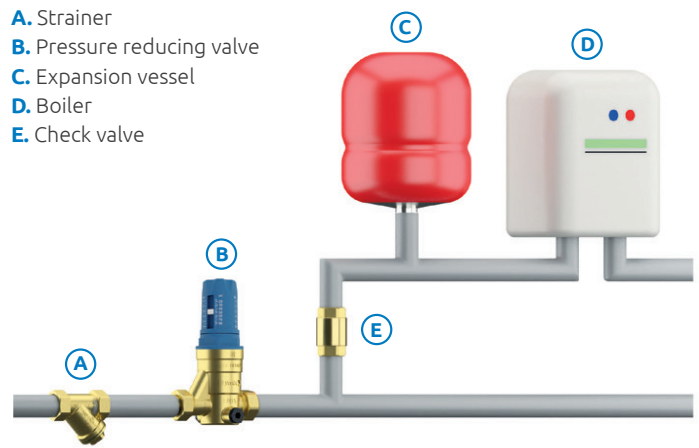
System Protection

Although the pressure reducing valve is already equipped with a built-in filter, it is recommended to install another strainer before the pressure reducing valve, in order to protect the functioning of the downstream hydraulic system.

Installation

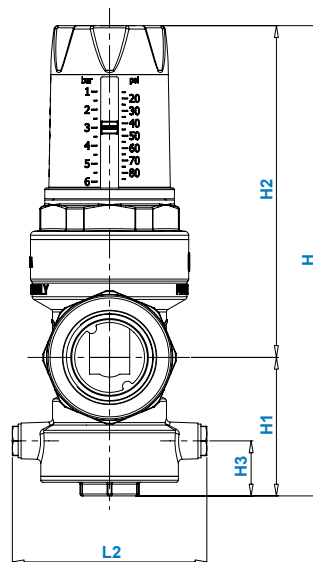
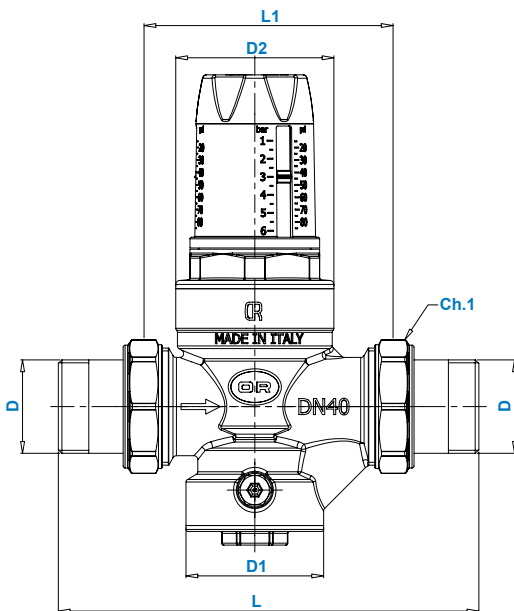
- Flush the pipework prior to the installation of the valve to prevent debris causing blockages or damage.
- Check the operating pressures and temperatures are within the permitted range.
- The positioning of the device must ensure sufficient space for adjustments and maintenance.
- Install isolation valves upstream and downstream from the pressure reducing valve.
- Assemble the pressure gauge (available separately)
- Ensure that the water flow follows the direction of the arrow.
- Connect the male threads to the pipe connections using an appropriate method of sealing.

The pressure reducing valve should be set to the required pressure during the commissioning process by a competent engineer.



Adjustment

The pressure reducing valve is pre-set to an outlet pressure of 3 bar. The adjustment head and the pressure gauge show the value of the reduced pressure of the outgoing fluid (P_s). To increase outlet pressure, rotate the adjustment head clockwise or anticlockwise to decrease the outlet pressure.



Product Code	D	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	Ch1 (mm)	Max Flow (l/s)
36212	1/2"	Ø41	Ø50	135	80	69	150	21	129	10	30	0.35
36213	3/4"	Ø41	Ø50	151	90	69	153	22	131	10	37	0.63
36214	1"	Ø41	Ø50	161	100	69	163	28	135	11	46	1.0
36215	1 1/4"	Ø55	Ø61	175	105	80	187	53	134	25	52	1.61
36216	1 1/2"	Ø70	Ø81	214	130	99	239	70	169	28	64	2.53
36217	2"	Ø70	Ø81	224	140	99	246	76	170	28	83	3.89

Related Product

Pressure Gauge 0-6 Bar 1/4" Back Connection (50mm dia.)

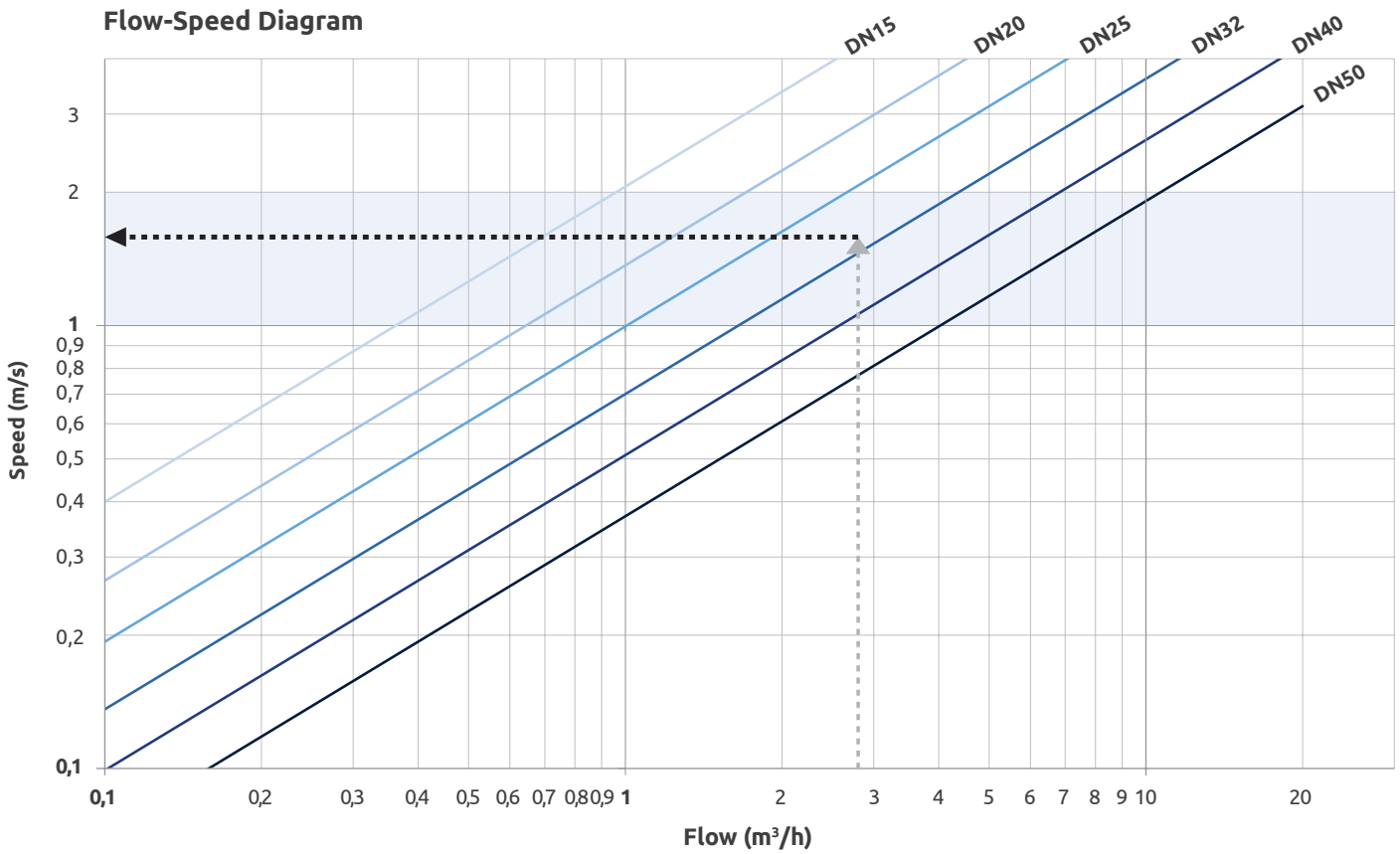
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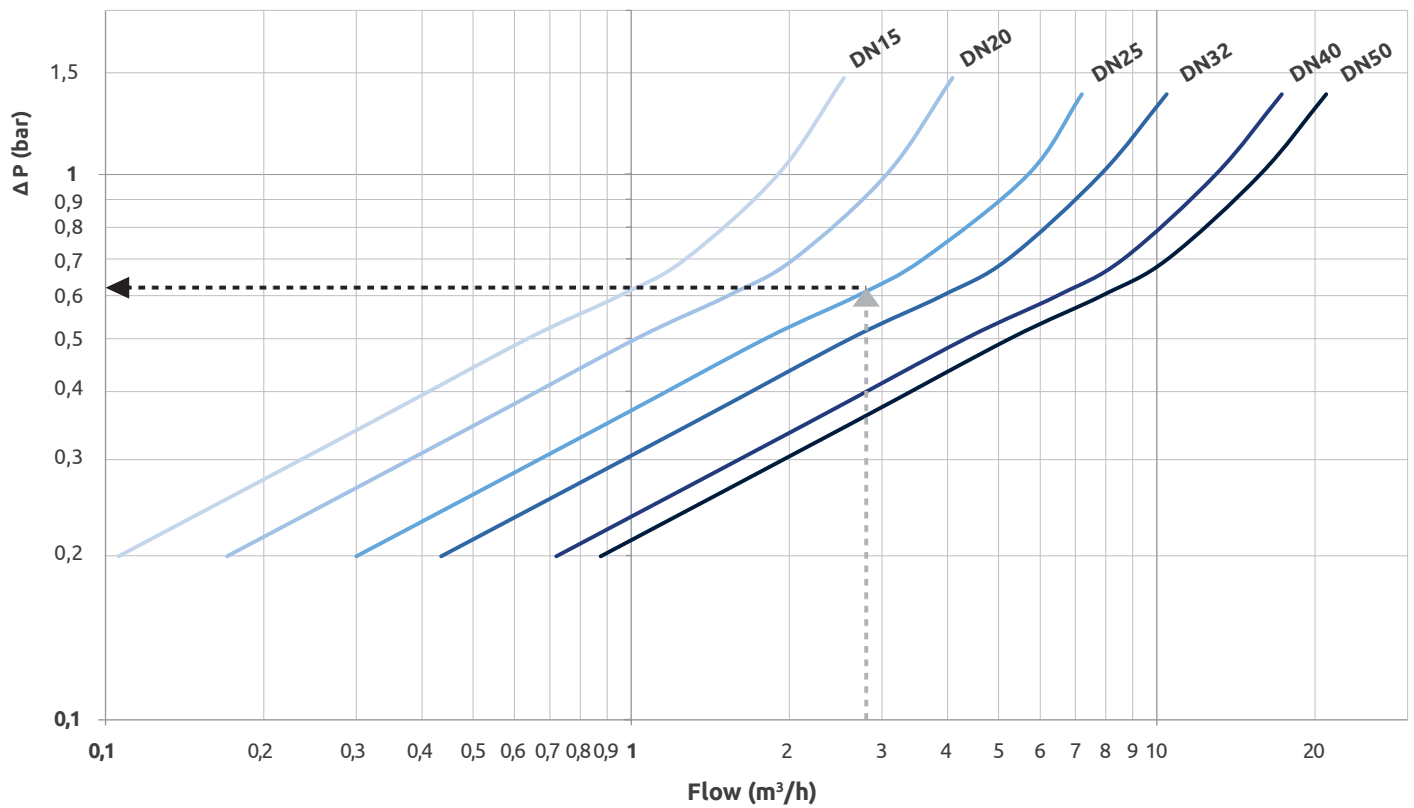
Brymec 

Technical Data

Flow-Speed Diagram



Flow Diagram - ΔP



Operating conditions : Pin = 8 bar ; Pset = 3 bar



Technical Data

