

Pressure Regulating Valve (PRV)

Model PRV536 – Industrial - Datasheet

Description

The 536 PRV from Arrow Valves is designed to provide a constant outlet pressure despite varying inlet pressures. The outlet pressure is adjustable between 0.5 – 6 bar. The inlet pressure must be higher than the desired outlet pressure.

The outlet pressure is factory set at 3 bar and adjustments can be made at any time by removing the tamperproof disc on top and inserting the hexagon key (supplied). Turn clockwise to increase the pressure.

A pressure gauge is supplied with each PRV (DN65 has two gauges), which indicates the outlet pressure. This may be removed and a plug fitted (supplied) or a self-seal probe test point can be supplied. Two gauge ports are provided to allow right and left configurations.

This direct acting PRV may be installed in horizontal or vertical pipes. Flat-faced unions enable the valve to be quickly installed and orientated and a range of connections is available to suit various pipes. Upstream and downstream Servicing Valves (SV) are **strongly recommended** to avoid draining for maintenance – e.g. cleaning internal strainer – refer to BVFM data sheet. The connections are normally solder union but compression is also available. Solder unions eliminate the blow-out risk of inadequately tightened compression ends.

Connection Pipes

Copper – Solder Unions or Compression

Steel – Male Union BSP taper tails

Plastic – Fittings available for most plastic systems

Specification

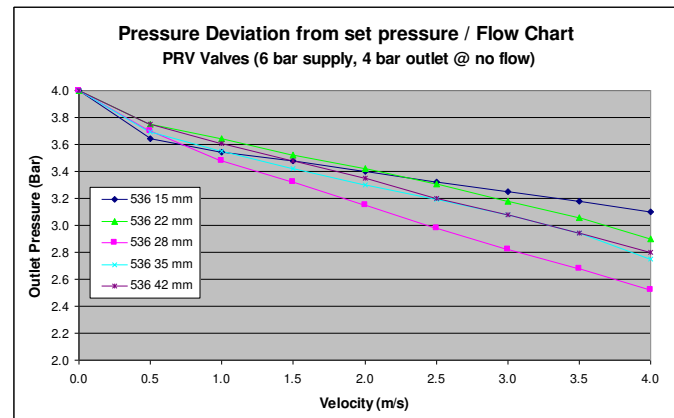
Pressure Inlet	25 bar max.
Pressure Outlet	0.5–6.0 bar
Pressure Factory Set	3 bar
Temperature	70° max.
Strainer	500 µm (0.5 mm)
Approval	1407323

Materials

Body	DZR brass (DN50+ Bronze)
Seat, Springs, Strainer	Stainless Steel
Diaphragm, Seal	EPDM

Applications

- Reducing excessive mains pressure
- Controlling pump outlet pressure
- Pressure regulation per floor
- Water conservation

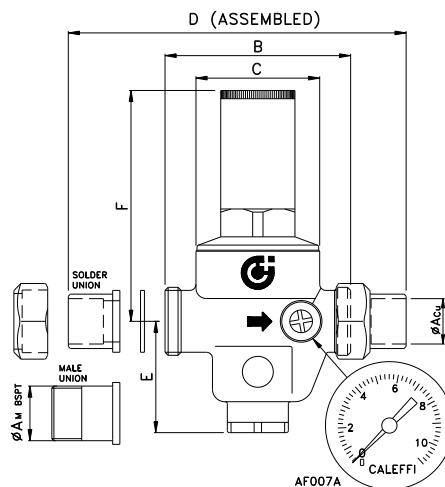


Notes

Velocity based on flow of water through the bore of copper tube table X.
See Flow Table to find the actual flow rate.
Valves tested with 6 bar inlet pressure. Outlet set to 4 bar with no flow.
Outlet pressure reduces due to frictional resistance and valve characteristics.



PRV with full-bore DZR servicing valves and solder unions for secure fitting to copper pipe.



DN	A _M	A _{Cu}	B	C	D _{SU}	D _{MU}	D _{SVComp}	D _{SVSU}	E	F	Kg _{MU}
15	1/2"	15	76	51	118	140	220	320	54	90	1.3
20	3/4"	22	90	60	144	160	258	374	54	112	1.7
25	1"	28	95	60	159	180	303	436	54	112	1.9
32	1 1/4"	35	110	72	184	200	346	494	63	126	3.1
40	1 1/2"	42	120	72	194	220	386	530	63	126	3.6
65	PN16	----	225	110	----	225	----	----	94	204	19.4

Codes and Descriptions

Size	Code	Description
15 – 42 mm	PRVsizeSU536SV	536 PRV Gauge 0.5-6 bar Serv Valves SU
15 – 42 mm	PRVsizeC536SV	536 PRV Gauge 0.5-6 bar Serv Valves Comp
DN15 - 40	PRVsizeFP536SV	536 PRV Gauge 0.5-6 bar Serv Valves FBSP
15 – 42 mm	PRVsizeSU536	536 PRV, Gauge 0.5-6 bar Solder Union
DN15 - 40	PRVsizeMU536	536 PRV Gauge 0.5-6 bar Male Union
DN65	PRV65PN536SV	536 PRV Gauges 0.5-6 bar Serv Valves PN16
DN65	PRV65PN536	536 PRV Gauges 0.5-6 bar PN16

For DN50 (54 mm) see PRV535

Options

- A "Filterball" can be fitted in place of the upstream Servicing Valve. This has a serviceable 300 µm strainer to protect the PRV from creep-inducing debris.
- A self-seal and capped Test Point can be fitted in place of the gauge
- Tee handles in place of Levers
- For lower head loss refer to PRV1300
- Double check valve – refer to ED132 datasheet

Arrow Valves Ltd

Tel: 01442 823123 Fax: 01442 823234

www.arrowvalves.co.uk

Arrow Valves Ltd reserve the right to change specifications, design and materials at any time without notice.

All unit-less dimensions in mm.
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