

Pressure Regulating Valve (PRV)

Model PRV1300 - JRG Industrial - Datasheet

Description

The 1300 PRV from Arrow Valves is designed to provide a constant outlet pressure despite varying inlet pressures. The 1300 range has **exceptionally** high material and performance specifications. Three outlet pressure ranges are available – see specification. The inlet pressure must be higher than the desired outlet pressure.

The outlet pressure is factory set at 4 bar (standard model - model PRV1310) and adjustments can be made at any time by inserting the hexagon key (supplied) through the top cover. Turn clockwise to increase the pressure.

A pressure gauge is supplied with each PRV, which indicates the downstream pressure. This may be removed and a plug fitted (supplied) if required. 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 pipe connectors is available to suit various pipes. Upstream and downstream Servicing Valves are **strongly recommended** to avoid draining for maintenance – e.g. cleaning internal strainer. See factory SV versions - with compression ends.

Connection Pipes

- Copper – Solder Unions or compression
- Steel – Male Union taper tails (as shown).
- Plastic – Fittings available for most plastic systems.

Specification

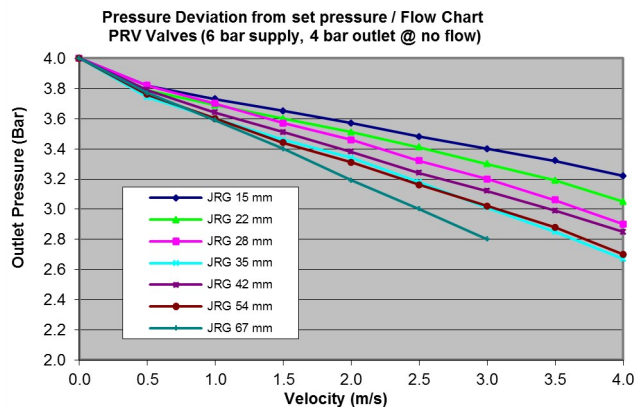
Pressure Inlet	25 bar max.
Pressure outlet	2.0-6.0 bar (model PRV1310) std
Pressure outlet	0.5-2.0 bar (model PRV1320)
Pressure outlet	6.0-10.0 bar (model PRV1330)
Pressure factory set	4 bar (model PRV1310)
Pressure factory set	2 bar (model PRV1320)
Pressure factory set	6 bar (model PRV1330)
Temperature	70° max.
Strainer	1000 µm (1.0 mm)

Materials

Body	Gunmetal
Seat, Springs, Strainer	Stainless steel

Applications

- Reducing excessive mains pressure.
- Controlling pump outlet pressure.
- Pressure regulation per floor, water conservation.

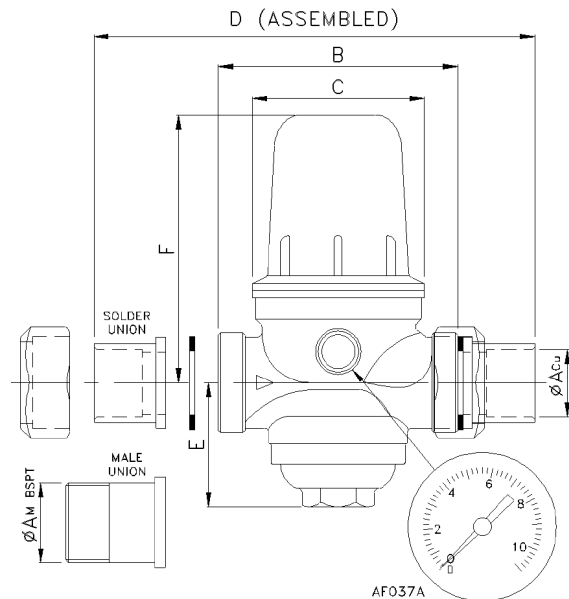


Notes

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 fitted with full bore servicing valves and solder unions for copper pipe.



DN	A _M	A _{CU}	B	C	D _{SU}	D _{MU}	D _{SVComp}	D _{SVSU}	E	F	Gauge
15	1/2"	15	80	52	124	148	224	328	29	79	1/8"
20	3/4"	22	86	58	143	159	267	373	36	86	1/8"
25	1"	28	100	70	154	184	308	440	52	110	1/4"
32	1 1/4"	35	120	77	182	212	356	506	64	121	1/4"
40	1 1/2"	42	160	94	232	241	426	551	80	157	1/4"
50	2"	54	176	103	258	289	488	328	98	172	1/4"
65	2 1/2"	N/A	180	103		310	224	373	98	172	1/4"

Codes and Descriptions

Size	Code	Description
15 - 54 mm	PRVsizeSU1310SV	1310 PRV Gauge Serv Valves SU
15 - 67 mm	PRVsizeC1310SV	1310 PRV, Gauge, Serv Valves Comp
DN15 - 65	PRVsizeFP1310SV	1310 PRV, Gauge, Serv Valves FBSP
15 - 54 mm	PRVsizeSU1310	1310 PRV, Gauge 2-6 bar Solder Union
DN15 - 65	PRVsizeMU1310	1310 PRV, Gauge 2-6 bar Male Union

The code and description reference "1310" refers to 2-6 bar. Substitute - "1320" for 0.5-2 bar or "1330" for 6-10 bar
The PRV1310 has a pressure rating of 2 – 6 bar and incorporates two springs – a large and small spring. The PRV1320 has a pressure rating of 0.5 – 2 bar and incorporates just one small spring.

The PRV1310 may be converted to a PRV1320 on-site by removing the larger spring. To do this, loosen the adjusting screw to relieve the spring pressure, unscrew the top cover, remove the large spring and reassemble.

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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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