

Pressure Reducing Valve (PRV)

Model PRVMU535 – Light Industrial – Datasheet – Page 1 of 3

Description

The 535 PRV from Arrow Valves is designed to provide a constant outlet pressure despite varying inlet pressures. The outlet pressure is adjustable between 1 – 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 rotating the cap above the pressure indicator clockwise for higher pressure, anti-clockwise for lower.

A pressure gauge is supplied with each PRV, which indicates the outlet pressure. This may be removed and a plug fitted (supplied) if required. The gauge may be rotated half a turn to facilitate right and left configuration.

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 are available to suit various pipes. Upstream and downstream Servicing Valves (SV) are **strongly recommended** to avoid draining for maintenance – e.g. cleaning internal strainer. Solder union connections are also available to eliminate the blow-out risk of inadequately tightened compression ends.

Connection Pipes

Copper – Solder Unions or Compression

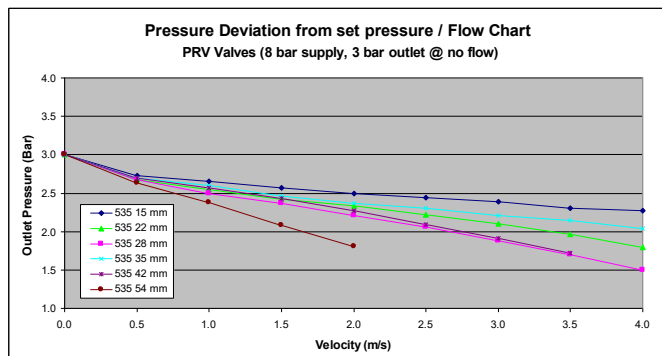
Steel – Male Union BSP taper tails

Plastic – Fittings available for most plastic systems

Specification		
Pressure Inlet	bar	25 max.
Pressure Outlet	bar	1 - 6
Pressure Factory set	bar	3
Max. Temperature	°C	40
Strainer	µm	510 (0.51 mm)
Water Regs Approval (WRAS)		2306304
Materials		
Body & Moving Parts		DZR Alloy
Cover		Polymer
Stem		Stainless Steel
Strainer		Stainless Steel
Diaphragm, Seal		EPDM Rubber

Applications

- Reducing excessive mains pressure
- Water conservation

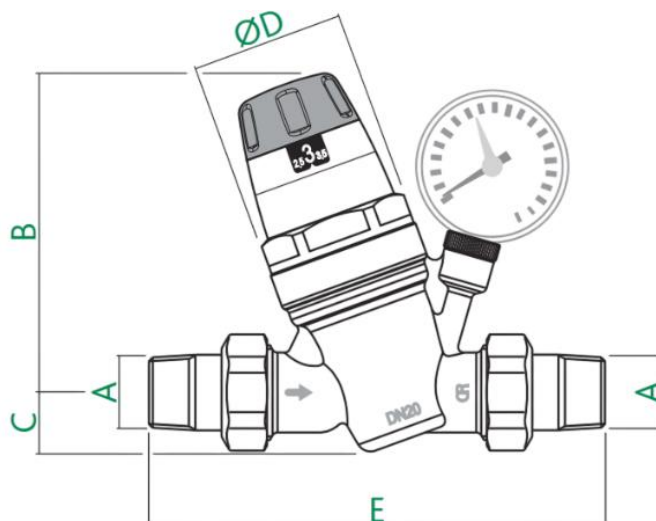


Notes

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 8 bar inlet pressure. Outlet set to 3 bar with no flow. Outlet pressure reduces due to frictional resistance and valve characteristics.



Model PRVMU535
535 PRV with male
union connections



DN	A	B	C	D	E	Kg
15	1/2"	112	20.5	54	140	0.92
20	3/4"	112	20.5	54	160	1.06
25	1"	112	20.5	54	180	1.38
32	1 1/4"	178	40	73	200	2.6
40	1 1/2"	178	40	73	220	3.4
50	2"	178	40	73	250	4.3

Codes and Descriptions

Size	Code	Description
15 mm	PRV15MU535	DN15 535 PRV 1-6 bar Male Union Gauge
20 mm	PRV20MU535	DN20 535 PRV 1-6 bar Male Union Gauge
25 mm	PRV25MU535	DN25 535 PRV 1-6 bar Male Union Gauge
32 mm	PRV32MU535	DN32 535 PRV 1-6 bar Male Union Gauge
40 mm	PRV40MU535	DN40 535 PRV 1-6 bar Male Union Gauge
50 mm	PRV50MU535	DN50 535 PRV 1-6 bar Male Union Gauge

Options

- A plug can be fitted in place of the gauge (supplied)
- For lower head loss refer to PRV536

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.
© Copyright Arrow Valves Ltd 2001-2026



Pressure Reducing Valve (PRV) – High Temperature

Model PRVMU535H – Light Industrial – Datasheet – Page 2 of 3

Description

The 535 PRV from Arrow Valves is designed to provide a constant outlet pressure despite varying inlet pressures. The outlet pressure is adjustable between 1 – 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 rotating the cap above the pressure indicator clockwise for higher pressure, anti-clockwise for lower.

A pressure gauge is supplied with each PRV, which indicates the outlet pressure. This may be removed and a plug fitted (supplied) if required. The gauge may be rotated half a turn to facilitate right and left configuration.

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 are available to suit various pipes. Upstream and downstream Servicing Valves (SV) are **strongly recommended** to avoid draining for maintenance – e.g. cleaning internal strainer. Solder union connections are also available to eliminate the blow-out risk of inadequately tightened compression ends.

Connection Pipes

Copper – Solder Unions or Compression

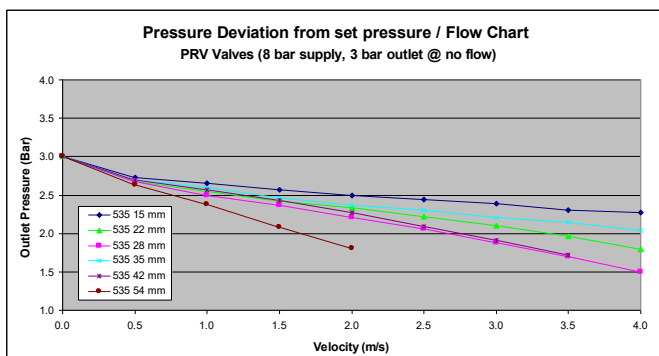
Steel – Male Union BSP taper tails

Plastic – Fittings available for most plastic systems

Specification		
Pressure Inlet	bar	16 max.
Pressure Outlet	bar	1 - 6
Pressure Factory set	bar	3
Max. Temperature	°C	80
Strainer (½" TO 1")	µm	510 (0.51 mm)
Strainer (1¼" TO 2")	µm	650 (0.65 mm)
Water Regs Approval (WRAS)		250302707
Materials		
Body		DZR Chrome Plated
Moving Parts		DZR
Cartridge		Polymer
Cover		Nylon
Stem		Stainless Steel
Strainer		Stainless Steel
Diaphragm, Seal		EPDM Rubber

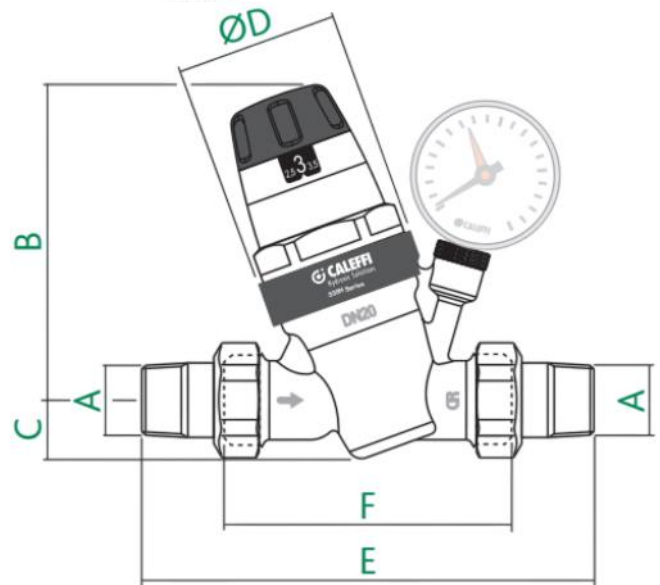
Applications

- Reducing excessive mains pressure
- 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 8 bar inlet pressure. Outlet set to 3 bar with no flow. Outlet pressure reduces due to frictional resistance and valve characteristics.



DN	A	B	C	D	E	F	Kg
15	½"	115	20.5	60	140	76	0.96
20	¾"	115	20.5	60	160	90	1.12
25	1"	115	20.5	60	180	95	1.41
32	1¼"	178	40	78	200	110	2.88
40	1½"	178	40	78	220	120	3.4
50	2"	178	40	78	250	130	4.51

Codes and Descriptions

Size	Code	Description
15 mm	PRV15MU535H	DN15 535 PRV 1-6 bar Male Union Gauge High Temp
20 mm	PRV20MU535H	DN20 535 PRV 1-6 bar Male Union Gauge High Temp
25 mm	PRV25MU535H	DN25 535 PRV 1-6 bar Male Union Gauge High Temp
32 mm	PRV32MU535H	DN32 535 PRV 1-6 bar Male Union Gauge High Temp
40 mm	PRV40MU535H	DN40 535 PRV 1-6 bar Male Union Gauge High Temp
50 mm	PRV50MU535H	DN50 535 PRV 1-6 bar Male Union Gauge High Temp

Options

- A plug can be fitted in place of the gauge (supplied)
- For lower head loss refer to PRV536

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.
© Copyright Arrow Valves Ltd 2001-2026



Pressure Reducing Valve (PRV)

Model PRVSU535 – Light Industrial – Datasheet – Page 3 of 3

Description

The 535 PRV from Arrow Valves is designed to provide a constant outlet pressure despite varying inlet pressures. The outlet pressure is adjustable between 1 – 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 rotating the cap above the pressure indicator clockwise for higher pressure, anti-clockwise for lower.

A pressure gauge is supplied with each PRV, which indicates the outlet pressure. This may be removed and a plug fitted (supplied) if required. The gauge may be rotated half a turn to facilitate right and left configuration.

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 are available to suit various pipes. Upstream and downstream Servicing Valves (SV) are **strongly recommended** to avoid draining for maintenance – e.g. cleaning internal strainer. Solder union connections are also available to eliminate the blow-out risk of inadequately tightened compression ends.

Connection Pipes

Copper – Solder Unions or Compression

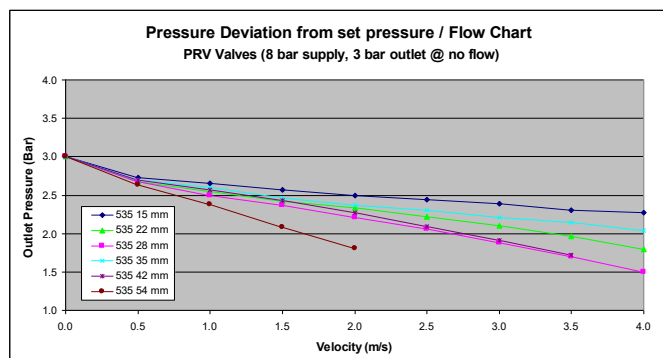
Steel – Male Union BSP taper tails

Plastic – Fittings available for most plastic systems

Specification		
Pressure Inlet	bar	25 max.
Pressure Outlet	bar	1 - 6
Pressure Factory set	bar	3
Max. Temperature	°C	40
Strainer	µm	510 (0.51 mm)
Water Regs Approval (WRAS)		2306304
Materials		
Body & Moving Parts		DZR Alloy
Cover		Polymer
Stem		Stainless Steel
Strainer		Stainless Steel
Diaphragm, Seal		EPDM Rubber

Applications

- Reducing excessive mains pressure
- Water conservation

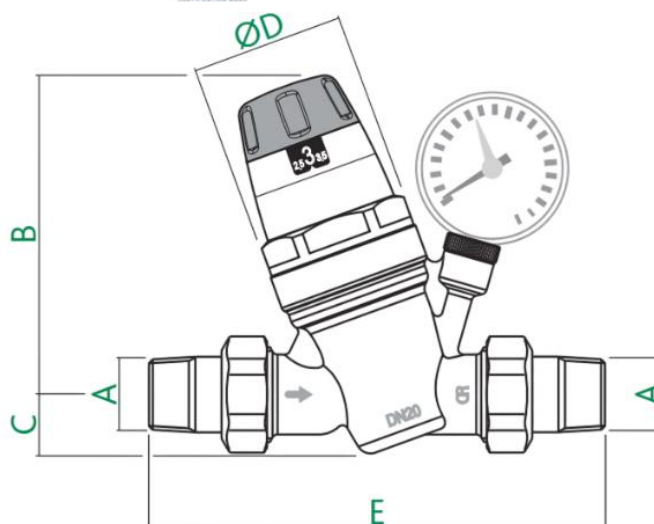


Notes

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 8 bar inlet pressure. Outlet set to 3 bar with no flow. Outlet pressure reduces due to frictional resistance and valve characteristics.



Model PRV15SU535
535 PRV with solder
union connections



DN	A	B	C	D	E	Kg
15	1/2"	112	20.5	54	118	0.69
22	1"	112	20.5	54	144	0.84
28	1 1/4"	112	20.5	54	154	1.02
35	1 1/2"	178	40	73	185	2.4
42	1 3/4"	178	40	73	197	2.73
54	2 1/4"	178	40	73	204	3.29

Codes and Descriptions

Size	Code	Description
15 mm	PRV15SU535	535 PRV Gauge 1-6 bar Solder Union
22 mm	PRV22SU535	535 PRV Gauge 1-6 bar Solder Union
28 mm	PRV28SU535	535 PRV Gauge 1-6 bar Solder Union
35 mm	PRV35SU535	535 PRV Gauge 1-6 bar Solder Union
42 mm	PRV42SU535	535 PRV Gauge 1-6 bar Solder Union
54 mm	PRV54SU535	535 PRV Gauge 1-6 bar Solder Union

Options

- A plug can be fitted in place of the gauge (supplied)
- For lower head loss refer to PRV536

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.
© Copyright Arrow Valves Ltd 2001-2026

