

# SERIES 535

## cold prescal dial up pressure reducing valve

SD 015 27-05-2020

### Application

Pressure reducing valves are installed in residential water systems to reduce and stabilise inlet pressures from mains water supplies or boosted water systems, which generally are too high and variable for domestic appliances to function correctly.

The Series 533 cold is specially designed for cold services in domestic and semi-commercial applications to equalise the cold water supply and prevent excessive pressure at outlets such as taps and showers.

### Design

The Series 533 cold pressure reducing valves are pre-adjustable enabling them to be set at the required discharge pressure prior to installation, by means of the adjustment knob with pressure setting indicator.

The internal cartridge and control knob mechanism is assembled as one unit to make removal easier for inspection, cleaning and maintenance.

The compensated seat design means that the set downstream pressure remains independent of upstream pressure variations.

The hydraulic profile of the valve makes it possible to achieve low pressure losses, even when a large number of outlets are open.

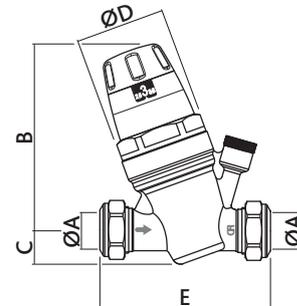
The control stem housing of the cartridge is made from a plastic material with a low co-efficient of adhesion, which reduces the probability of scale deposits forming, the main cause of pressure reducing valve malfunction.

### Construction Details

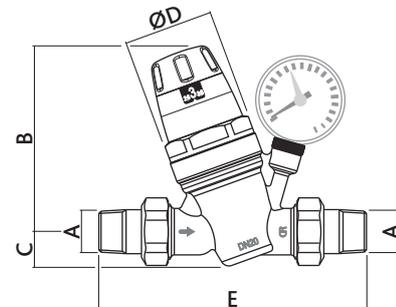
Component	Material	Grade
Body	DZR chrome plated	BS EN 12165 CW602N
Cover	Nylon	PA 66GF30
Control stem	Stainless steel	AISI 304
Cartridge	POM	
Internal components	DZR copper alloy	BS EN 12164 CW602N
Diaphragm	Elastomer	Nitrile
Seals	Elastomer	Nitrile
Strainer screen	Stainless steel	AISI 304

Ref No	Size	Connection	Gauge
535022	22mm	compression	Cu x Cu with gauge port
535041	½"	screwed iron	M x M with pressure gauge
535051	¾"	screwed iron	M x M with pressure gauge
535061	1"	screwed iron	M x M with pressure gauge
535071	1¼"	screwed iron	M x M with pressure gauge
535081	1½"	screwed iron	M x M with pressure gauge
535091	2"	screwed iron	M x M with pressure gauge
535040	½"	screwed iron	M x M with gauge port
535050	¾"	screwed iron	M x M with gauge port
535060	1"	screwed iron	M x M with gauge port
535070	1¼"	screwed iron	M x M with gauge port
535080	1½"	screwed iron	M x M with gauge port
535090	2"	screwed iron	M x M with gauge port

### Dimensions



Ref No	ØA	B	C	D	E	kg
533022	22	112	20.5	54	101	0.41



Ref No	A	B	C	D	E	kg
535040 & 41	R½	112	20.5	54	140	0.92
535050 & 51	R¾	112	20.5	54	160	1.06
535050 & 51	R1	112	20.5	54	180	1.38
535050 & 51	R1¼	178	40	73	200	2.6
535050 & 51	R1½	178	40	73	220	3.4
535050 & 51	R2	178	40	73	250	4.3

### Technical Data

Max inlet pressure:	25 bar
Outlet pressure setting range:	1 to 6 bar
Factory setting:	3 bar
Max working temperature:	40°C
Pressure gauge range:	0 to 10 bar
Pressure gauge connection:	G¼
Filter mesh size:	0.51 mm
Medium:	potable water
Complies with:	BS EN 1567
Screwed ends:	BS EN 10226
Compression Ends:	BS EN 1254-2*
<b>Pressure reduction ratio to minimise the risk of cavitation:</b>	<b>optimal 2:1, MAX 3:1</b>

\* For use with R250 (half hard) copper tube

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