

SERIES 535H

prescal dial up pressure reducing valve

SD 016 29-05-2020

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 535H is specially designed for hot and cold services in domestic and semi-commercial applications to equalise the hot or cold water supplies or both and prevent excessive pressure at outlets such as taps and showers.

Design

The Series 533H 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.

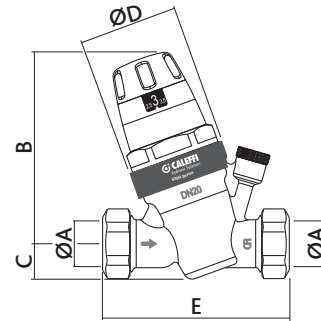
The control stem housing of the cartridge is made from a plastic material with a low co-efficient of adhesion, which reduces the probability of scale deposits forming, the main cause of pressure reducing valve malfunction.

Construction Details

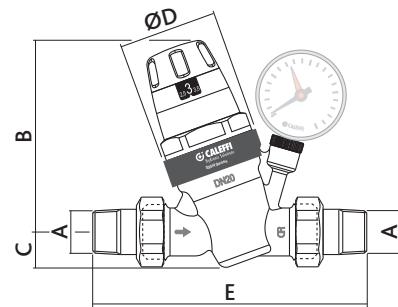
Component	Material	Grade
Body	DZR chrome plated	BS EN 12165 CW724R
Cover	Nylon	PA 66M40/1
Control stem	Stainless steel	AISI 303
Cartridge	Polymer	PPSG40
Internal components	DZR copper alloy	BS EN 12164 CW724R
Diaphragm	Elastomer	Nitrile
Seals	Elastomer	Nitrile
Strainer screen	Stainless steel	AISI 304

Ref No	Size	Connection	Gauge
535015H	15mm	compression	Cu x Cu with gauge port
535022H	22mm	compression	Cu x Cu with gauge port
535028H	28mm	compression	Cu x Cu with gauge port
535041H	½"	screwed iron	M x M with pressure gauge
535051H	¾"	screwed iron	M x M with pressure gauge
535061H	1"	screwed iron	M x M with pressure gauge
535071H	1¼"	screwed iron	M x M with pressure gauge
535081H	1½"	screwed iron	M x M with pressure gauge
535091H	2"	screwed iron	M x M with pressure gauge
535040H	½"	screwed iron	M x M with gauge port
535050H	¾"	screwed iron	M x M with gauge port
535060H	1"	screwed iron	M x M with gauge port
535070H	1¼"	screwed iron	M x M with gauge port
535080H	1½"	screwed iron	M x M with gauge port
535090H	2"	screwed iron	M x M with gauge port

Dimensions



Ref No	ØA	B	C	D	E	kg
535015H	15	115	20.5	60	101	0.69
535022H	22	115	20.5	60	109	0.74
535028H	28	115	20.5	60	115	0.79



Ref No	A	B	C	D	E	kg
535040H & 41H	R½	115	20.5	60	140	0.96
535050H & 51H	R¾	115	20.5	60	160	1.12
535060H & 61H	R1	115	20.5	60	180	1.41
535070H & 71H	R1¼	178	40	78	200	2.88
535080H & 81H	R1½	178	40	78	220	3.40
535090H & 91H	R2	178	40	78	250	4.51

Technical Data

Max inlet pressure:	16 bar
Outlet pressure setting range:	1 to 6 bar
Factory setting:	3 bar
Max working temperature:	80°C
Pressure gauge range:	0 to 10 bar
Pressure gauge connection:	G¼
Filter mesh size:	15 to 28 & ½" to 1"
	1¼" to 2"
Medium:	potable water
Complies with:	BS EN 1567
Screwed ends:	BS EN 10226
Compression Ends:	BS EN 1254-2*

* For use with R250 (half hard) copper tube

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