

536 Prescal

pressure reducing valves
2" and DN65 sizes



altecnic
CALEFFI group

536 Prescal pressure reducing valve



Application

Pressure reducing valves are installed in 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 536 series is specially designed for hot and cold services in semi-commercial or public buildings to equalise either the hot or cold supplies or both and prevent excessive pressure at water outlets such as taps, basins, toilets, dishwashers and other appliances.

Design

The series 536 pressure reducing valves are factory set to maintain 3 bar downstream pressure. The pressure can be adjusted using a 10mm Allen key/screw driver, depending upon size.

Upstream and downstream pressure gauges make setting easier with a visual indication of both pressures.

The internal cartridge assembly can be easily removed for inspection, cleaning and maintenance operations.

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

An integral filter prevents debris from entering the cartridge, which may affect its performance.

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

Construction Details

Component	Material	Grade
Body	Bronze	BS EN 1982 CC492K
Cover	DZR copper alloy	BS EN 1982 CB753S
Seat	Stainless steel	AISI 304
Diaphragm	Nitrile rubber	
Seals	Nitrile rubber	
Strainer screen	Stainless steel	AISI 304

Product Code	Size	Connections	Type
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Series 536 Range

536590	2"	screwed iron	M x M - with 2 gauge port
536591	2"	screwed iron	M x M - with 2 pressure gauges
536660	DN65	Flanged PN16	Fl x Fl - with 2 pressure gauges

Flow Rates

BS EN 1567 recommends an average flow velocity of 2 m/s.

When sizing pressure reducing valves the flow velocity should be between 1 to 2 m/s.

Velocity	Size	2"	DN65
1 m/s	Flow rate l/min	116.6	194.8
2 m/s	Flow rate l/min	233.2	389.6

Altecnic Ltd Francesco House, Staples Close, Stafford ST16 1WQ

T: +44 (0)1785 218200 E: sales@altecnic.co.uk

Registered in England No: 02095101

altecnic.co.uk

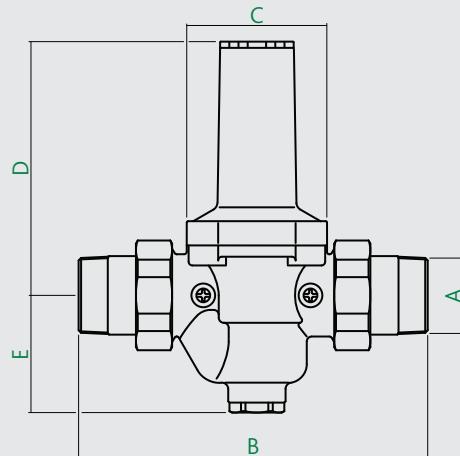
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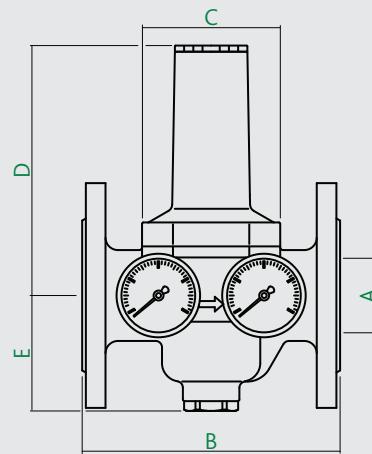
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Dimensions



Prod Code	A	B	C	D	E	kg
536590	R2	81	51	90	54	10.3
536591	R2	81	51	90	54	10.4



Prod Code	A	B	C	D	E	kg
536660	DN65	225	110	204	94	19.4

Technical Data

Max. inlet pressure:	25 bar
Outlet pressure setting range:	0.5 to 6 bar
Factory setting:	3 bar
Max. working pressure:	80°C
Pressure gauge range upstream:	0 to 25 bar
Pressure gauge range downstream:	0 to 10 bar
Medium:	portable water
Complies with (536590 & 1 only):	BS EN 1567
Flanged PN16:	BS EN 1092-3
Pressure gauge connections:	
536590 & 1:	2 x G1/4
536660:	2 x G3/8

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