eres

differential bypass valves

altecnic
Caleffi group

eres differential bypass valve

Application

The valves are installed in the bypass between the flow and return pipes and opens on rising differental pressure to allow flow through the bypass. This maintains the differential pressure between the flow and return pipes at the predetermined set value.

Differential bypass valves are used in systems with variable flowrates.

Radiator circuits utilising thermostatic radiator valves or heating systems incorporating 2-port control valves are typical applications.

Differential bypass valves can be used in both constant and variable volume systems to prevent the differential pressure from rising which can seriously affect the performance of the 2-port control valves.

Design

The eres differential bypass valves use a stainless steel compression spring to exert a predetermined force onto the disc.

The force is adjustable by turning the control knob to set the required differential pressure between 1 to 5 m head (10 to 50 kPa) for the angle valve and between 1 to 6m head (10 to 60 kPa) for the straight valve

The straight valve has a protective dome to conceal the scale and adjustment mechanism.

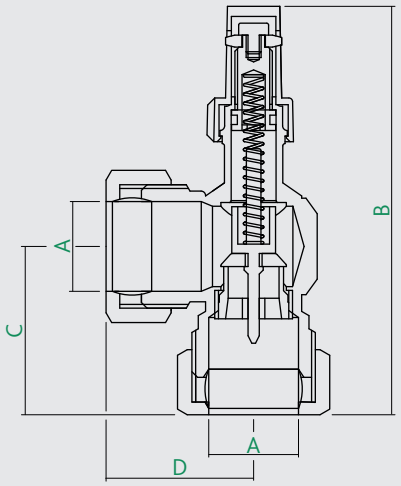
The valve has compressions ends complying with BS EN 1252-2* for use with copper tube.

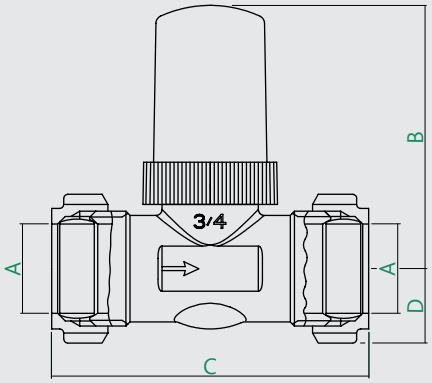
Construction Details

Component	Material
Body	Brass - chrome plated
Disc and spring guide	Brass
Disc facing	EPDM
'O' rings	EPDM
Control knob	ABS polymer
Spring	Steel
Olive	Brass
Compression nut	Brass - chrome plated

Product Code	Size	Inlet Connection	Outlet Connection	Pattern
ER-22MMANGBI	22	compression	compression	angle
ER-22MMSTRBI	22	compression	compression	straight
ER-28MMANGBI	28	compression	compression	angle
ER-28MMSTRBI	28	compression	compression	straight

Dimensions





Prod Code	A	B	C	D	kg
ER-22MMANGBI	Ø22	105	40	34	0.24
ER-22MMSTRBI	Ø22	65.5	79	14.5	0.30
ER-28MMANGBI	Ø28	102.5	38.5	36.7	0.34
ER-28MMSTRBI	Ø28	71.3	76	21.8	0.31

Technical Data

Medium:			water glycol solution
Max. percentage of glycol:			30%
Temperature range:			0 to 100˚C
Max. working pressure:			10 bar
Setting range:	angle	1 to 5m head	10 to 50 kPa
	straight	1 to 6m head	10 to 60 kPa

Installation

The valves are very simple to install with just two joints to make.

The flow through the valves must follow the direction arrow on the valve body.

The valves can be fitted in any orientation.

* Use with R250 (half hard) copper tube

E & O.E

Altecnic Ltd Mustang Drive, Stafford, Staffordshire ST16 1GW
T: +44 (0)1785 218200 E: sales@altecnic.co.uk
Registered in England No: 2095101

altecnic.co.uk

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