

C10 Pressure Reducing Valve

The C10 balanced pressure reducing valve range is designed for use on water/air (gas) applications and for installations which have varying inlet pressures and capacities. It is particularly suitable where positive shut-off is required under 'no flow' conditions and where compact size and economy are essential.

OPERATION

The C10 pressure regulator is operated by a spring loaded piston and has a balanced main valve which ensures that the outlet dead-end pressure is unaffected by changes of inlet pressure.

The valve is opened by the load on the adjusting spring and closed by reduced pressure on the underside of the diaphragm. Under normal working conditions, the balance of these two forces gives the degree of valve opening for the required reduced pressure.

FEATURES AND BENEFITS

- Cast bronze body and stainless steel seat for extended life.
- Soft disc for positive shut-off.
- Integral strainer to maximise operability and increase reliability.
- Fully balanced piston - allows a constant outlet pressure to be maintained, irrespective of varying inlet pressure.
- Simple design - enables the valve to be easily maintained and serviced without removal from the line, using only an adjustable spanner and screwdriver.
- Self actuation/regulation - requires no external power source.
- Single adjustable spring - only one spring covers the entire outlet pressure range.

CE MARKING

For liquid applications the C10 is in accordance with the PED and does not require to be CE marked.

The C10 is not available for use on CE certified air duties.

TECHNICAL SPECIFICATION

Size	15, 20, 25, 32, 40, 50 mm (1/2, 3/4, 1, 1 1/4, 1 1/2, 2 inch)
Connection	Screwed BSP parallel female
Material	Bronze.
Temperature Range	-18 to 82°C
Maximum Inlet Pressure	27 Barg
Maximum Outlet Pressure*	4.8 Barg
Minimum Outlet Pressure*	0.7 Barg

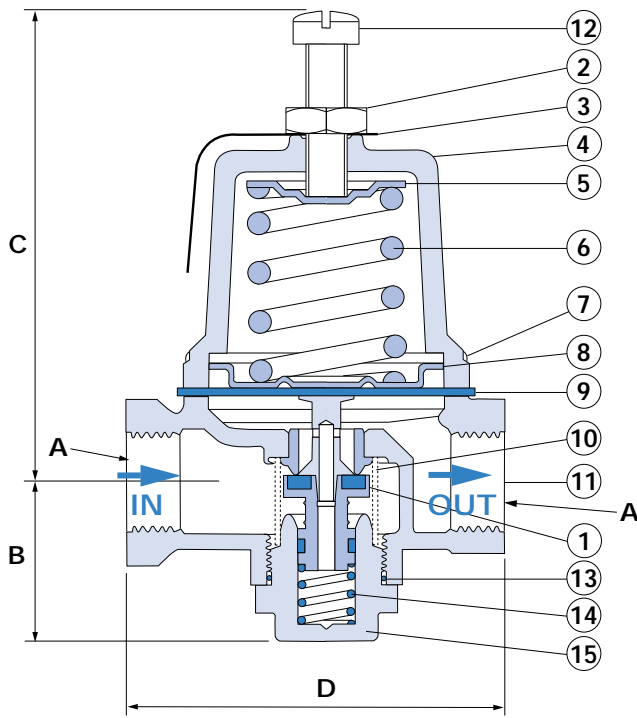
Outlet pressure should not be less than 10% of the inlet pressure.

* Setting including rise at dead end (see pages 56, 73 and 75).

SPRING SELECTION

DEAD END PRESSURE SETTING RANGE (Barg)	DEAD END PRESSURE SETTING RANGE (Psig)	COLOUR CODE
0.7 to 4.8	10 to 70	Only 1 Spring

PARTS



ITEM	PART	MATERIAL
1*	Piston Subassembly including: - Pusher Post - Seat Disc - Piston - 'O'-Ring	Brass EPDM Brass EPDM
2	Nut	St. St.
3	Name Plate	Aluminium
4	Spring Chamber	Iron
5	Spring Plate	Steel/Iron
6	Spring	Steel
7	Screw	Brass/St. St.
8	Pressure Plate	Steel/Iron
9*	Diaphragm	EPDM
10*	Strainer	St. St.
11	Body Subassembly including: - Body - Seat Ring	Bronze St. St.
12	Adjusting Screw	Brass
13*	'O'-Ring	EDPM
14	Piston Spring	St. St.
15	Bottom Plug	Brass

*Repair pack; available from Safety Systems UK Ltd.

Recommended inspection every 12 months

DIMENSIONS

SIZE	DN15	DN20	DN25	DN32	DN40	DN50
A BSP	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
B	33.40	35.50	40.40	50.60	55.70	66.50
C	98.20	104.80	112.70	191.00	224.70	276.00
D	77.00	84.20	98.00	119.10	144.50	171.50
Kg	0.80	1.00	1.30	3.30	5.90	9.40

All dimensions in mm.