

# PRESSURE REDUCING VALVES

# 198

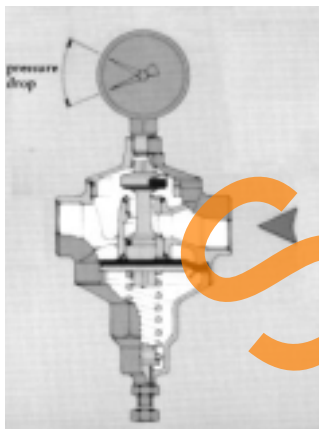
## RINOX

Inlet P max 25 bar  
 Outlet P 0,5/4,0 bar  
 Max. temp. 80° Celsius  
 Screwed BSP

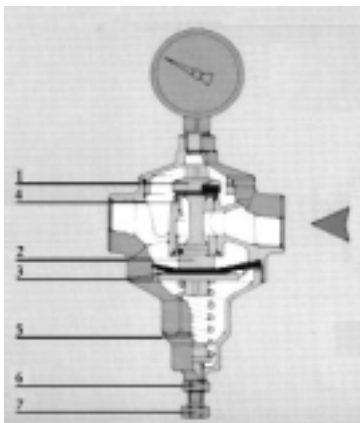


#198

Stainless steel seats  
 Silicon steel spring  
 Reinforced resin plug  
 NBR diaphragm  
 NBR O-rings



Valve open



Valve closed

**Applications** – the maintenance of constant outlet flow conditions in systems handling water, air and other non-corrosive, clean media compatible with the materials of construction. Ideal for domestic and building services installations or any application where constant outlet pressures lower than mains inlet pressures are desired. Limitations are 25 bar inlet pressure and 80° Celsius maximum temperature. Any media with suspended solids content must be filtered immediately upstream of the valve; failure to do so will result in malfunction. These valves offer long life and high repeatability.

**Installation** - the pressure reducing valve should be installed with an upstream non-return valve, optional by-pass, isolating valves and, whenever possible, a line filter. Adjustment and final setting of the valve should be carried out with all fittings closed and a completely full circuit. A pressure gauge should be fitted as shown.

**Operation** - the required pressure reduction depends on the spring setting (5) achieved by the screw (7) and stop nut (6). Fluid flow only occurs when the plug (1) lifts from the stainless steel seat (4). The plug is connected to the diaphragm (3) via the rod (2). Flow occurs when the outlet pressure decreases and is out of balance with the pressure exerted by the spring (5) against the diaphragm. When the user closes his outlet the plug remains open until the pressure build up in the valve chamber exerts sufficient force to depress the diaphragm against the set pressure of the spring, thus achieving pressure balance within the valve.

**Range** – INLET PRESSURE – up to 25 bar maximum  
 OUTLET PRESSURE – 0,5 bar up to 4 bar maximum.

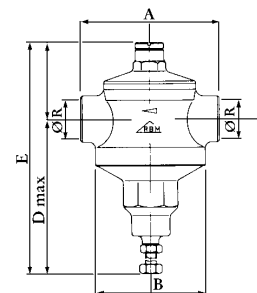
## Materials

Part	Material	Part	Material
Body	Hot pressed brass and cast brass	Diaphragm	Nitrile (NBR)
Seats	Stainless steel AISI 304	O-rings	Nitrile (NBR)
Spring	Galvanised silicon steel	Finish	Nickel plated

**Testing** - each pressure reducer is tested for body and seat tightness.

## Dimensions mm

DN	in	A	B	C	Dmax	E
15	1/2	95	78	57	130	187
20	3/4	95	78	57	130	187
25	1	95	78	63	135	198
32	1 1/4	116	92	67	153	220
40	1 1/2	122	92	72	163	235
50	2	126	92	72	163	235



**Options** – sizes DN65, DN80, DN100;  
 7 bar outlet pressure for sizes DN15 through DN50.

