

PRESSURE SUSTAINING PILOT VALVE

High Capacity

Model 3HC

This is a direct acting valve, actuated by a pressure responsive diaphragm, which tends to reach equilibrium with the set spring force. When used in a pressure relief/sustaining circuit, the pilot modulates open as upstream pressure rises above set point.

Features

- Differential pressure sensing
- Direct Pressure Gauge Installation
- Variety of setting springs
- Non-tamper safety cap

Typical Applications

- Pressure Relief/Sustaining Valves (Standard model 3HC)
- Differential Pressure Sustaining (3HC-DR)
- Surge Anticipating Valves, high pressure pilot (3HC-R)
- Downstream over-pressure guard, feature 48 (3HC-R)

Technical Data

Pressure Rating: 40 bar

Water Temperature Range: 0-80 °C

Flow Factor: Kv 4.7

Height (H): 260 mm; with 25 bar spring- 350 mm

Width (W): 95 mm

Weight: 3.5 Kg; with 25 bar spring- 4.6 Kg

Standard Materials:

Body: Stainless Steel 316

Cover: Stainless Steel 316

Diaphragm & Seals: NBR or EPDM

Internal Parts: Stainless Steel & Brass

Spring: Stainless Steel

Optional Materials:

Body: Nickel Aluminum Bronze, Hastelloy, Super Duplex

Cover: Nickel Aluminum Bronze, Hastelloy, Super Duplex

Diaphragm & Seals: FPM (Viton®)

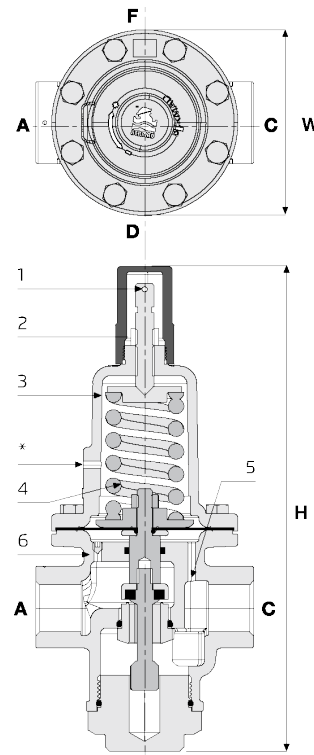
Internal Parts: Stainless Steel 316, NAB, Hastalloy

Spring: Stainless Steel 316, Inconel

Adjustment Range:

Spring	Setting range
3	0.5-3 bar
10	0.8-8 bar
16	1-16 bar
25	2-25 bar

Standard spring - marked in bold



Part	Description
1	Adjusting screw
2	Locking nut
3	Cover
4	Spring
5	Internal sensing
6	Body

Port	Size	Connections
A	¾" BSP	Out
C	¾" BSP	In
F/D	¼" NPT	External sensing (optional) / pressure gauge
*	⅛" NPT	Optional (Low Pressure Sensing for differential pilot)

Always recommended to refer to control diagram