

# PRESSURE REDUCING PILOT VALVE

## High Capacity

### Model 2HC

This is a direct acting valve, actuated by a pressure responsive diaphragm, which tends to reach equilibrium with the set spring force. Fully balanced trim ensures high accuracy and stability.

When used in a pressure reducing circuit, the pilot modulates closed as downstream pressure rises above set point.

#### Features

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

#### Typical Applications

- High-quality Direct Acting Pressure Reducing Valve
- Pressure Reducing Valves (Standard model 2HC)
- Flow Control Valves (2HC-DR)
- Surge Anticipating Valves, low pressure pilot (2HC-R)
- Closing surge prevention, additional feature 49 (2HC-R)

#### Technical Data

**Pressure Rating:** 40 bar

**Water Temperature Range:** 0-80 °C

**Flow Factor:** Kv 4.4

**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®)

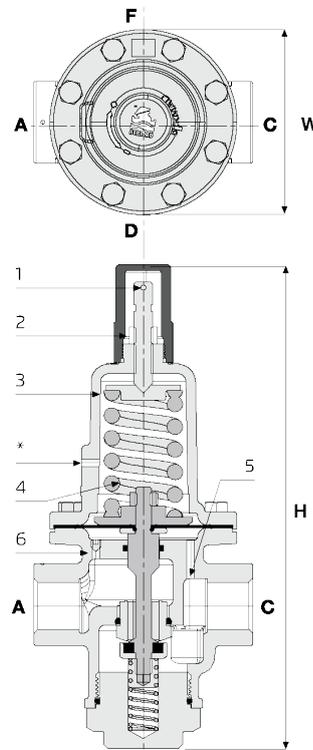
**Internal Parts:** Stainless Steel 316, NAB, Hastalloy

**Spring:** Stainless Steel 316, Inconel

#### Adjustment Range:

Spring	Setting range
3	0.5-3 bar
10	0.8-8 bar
<b>16</b>	<b>1-16 bar</b>
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	In
C	¾" BSP	Out
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