



## High Capacity Pressure Reducing Pilot Valve

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

### Typical Applications

- Pressure Reducing Valves sizes 16-32" (Standard model #2HC)
- Flow Control Valves sizes 16-32" (Modified to differential sensing #2HC-DR)
- Surge Anticipating Valves sizes 6-14" as low pressure pilot (Modified to external pressure sensing #2HC-R)
- Closing surge control (additional feature 49) for sizes 16-32" (Modified to external pressure sensing #2HC-R)

### Technical data

**Pressure Rating:** 25 bar (350 psi)  
**Working Temperature:** Water up to 80°C (180°F)  
**Flow Factor:** Kv 4.4 (Cv 5.1)  
**Standard Materials:**  
**Body:** Bronze  
**Cover:** Brass  
**Elastomers:** NBR  
**Internals:** Stainless Steel & Brass  
**Spring:** Galvanized Steel  
**Optional Materials:**  
**Metal Parts:** Stainless Steel, Nickel Aluminum Bronze, Hastalloy  
**Elastomers:** FPM (Viton®)

### Adjustment Range

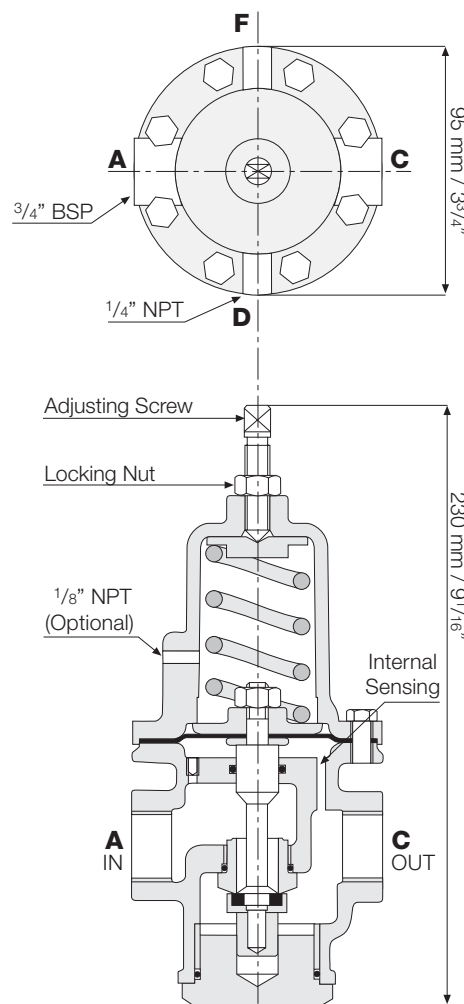
Spring	Pressure		
	bar	psi	
16	1-16	15-230	Standard
10	0.5-10	11-150	
25*	2-25	30-350	Optional

\* With high pressure setting kit

### Connections

**A** - Valve control chamber  
**C** - Downstream  
**F/D** - External sensing (optional) / pressure gauge

Upstream pressure is connected to valve control chamber via a restriction.



**Weight: 3.4 Kg / 7.5 lbs.**

\* High pressure setting kit add 128 mm (5") to pilot height



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