



## High Capacity Pressure Sustaining Pilot Valve

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

- Internal or external pressure sensing
- Differential pressure sensing
- Direct Pressure gauge installation

### Typical Applications

- Pressure Relief/Sustaining Valves sizes 16-32" (Standard model #3HC)
- Differential Pressure Sustaining 16-32" (Modified to differential sensing #3HC-DR)
- Surge Anticipating Valve sizes 6-14" as high pressure pilot (Modified to external pressure sensing #3HC-R)

### Technical Data

**Pressure Rating:** 25 bar (350 psi)

**Working Temperature:** Water up to 80°C (180°F)

**Flow Factor:** Kv 4.7 (Cv 5.5)

**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	0.8-10	11-150	Standard
25*	2-25	30-350	Optional

\* With high pressure setting kit

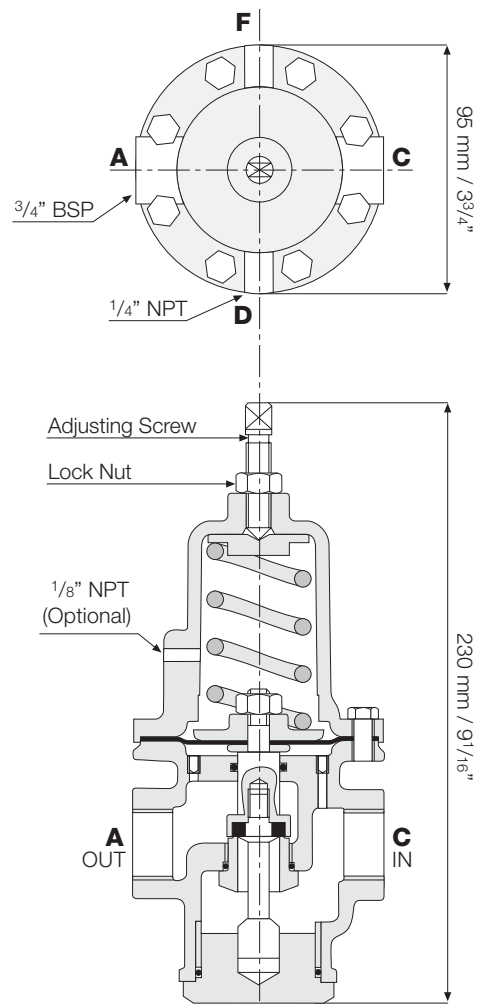
### Connections

**C** - Valve control chamber

**A** - Downstream

**F/D** - External sensing/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.