



Pressure Sustaining Pilot Valve

With Integral Needle Valve

Model #3

This pilot integrates all principal functions of a 2-Way control circuit in a single assembly. It is a direct acting pilot 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. An integral needle valve acts as an upstream flow restrictor as well as a closing speed control.

Features

- Integral needle valve
- Internal or external pressure sensing
- Differential pressure sensing
- Direct pressure gauge installation

Typical Applications

- Pressure Relief/Sustaining Valve sizes 6-14" (Standard model #3)
- Differential Pressure Sustaining Valve sizes 6-14" (Modified to differential sensing #3D)
- Surge Anticipating Valve sizes 1 1/2-4" as high pressure pilot (Standard model #3)

Technical Data

Pressure Rating: 40 bar; 600 psi

Working Temperature: Water up to 80°C; 180°F

Flow Factor: Kv 1.1 m³/h @ 1bar ΔP; Cv 1.3 GPM @ 1psi ΔP

Standard Materials:

Body & 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
10	0.8-10	11-150
16*	2-30	30-430
16*	2-45	30-650

Standard

Optional

* With high pressure setting kit

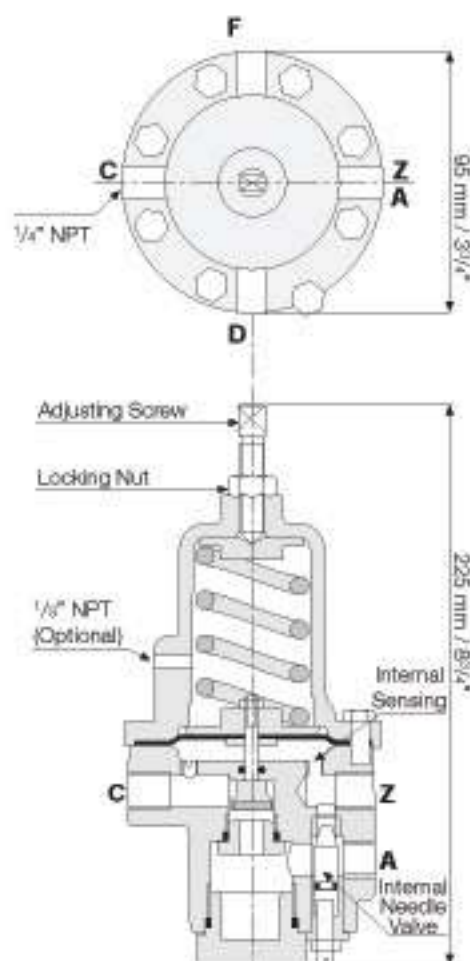
Connections

Z - Upstream

A - Valve control chamber

C - Downstream

F/D - External sensing/pressure gauge



Weight: 2.7 Kg; 6 lbs.

* High pressure setting kit add 15 mm (5/8") to pilot height.



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