

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 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 (Standard model #3)
- Differential Pressure Sustaining Valve (Modified to differential sensing #3D)
- Surge Anticipating Valve as high pressure pilot (Standard model #3)

Technical Data

Pressure Rating: 40 bar; 600 psi

Working Temperature: Water up to 60°C; 150°F

Flow Factor: Kv 1.1; Cv 1.3

Valve Size Range: Medium

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
3	0.5-3	7-43
10	0.8-10	11-150
16	1-16	15-230
25*	2-25	30-650
16*	2-30	30-430
16*	2-45	30-430

Standard
Optional

* With high pressure setting kit

Connections

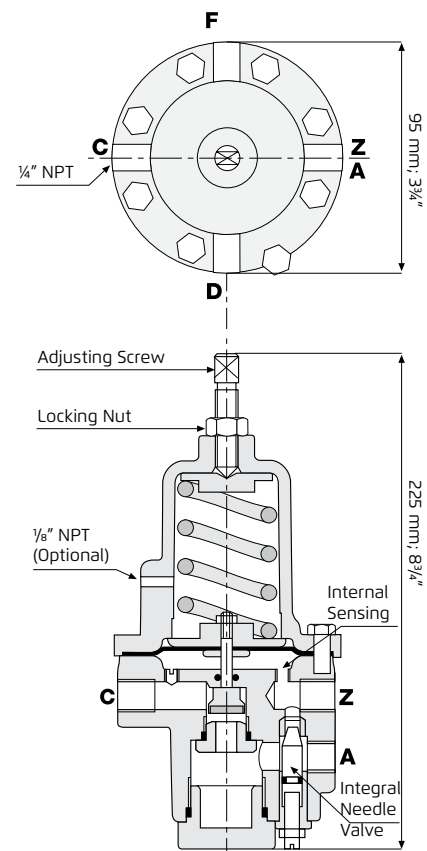
Z - Upstream

A - Valve control chamber

C - Downstream

F/D - External sensing/pressure gauge

*Always recommended to refer to control diagram



Weight: 2.7 Kg; 6 lbs.

High pressure setting kit add 128; mm; 5" to pilot height

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