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®)

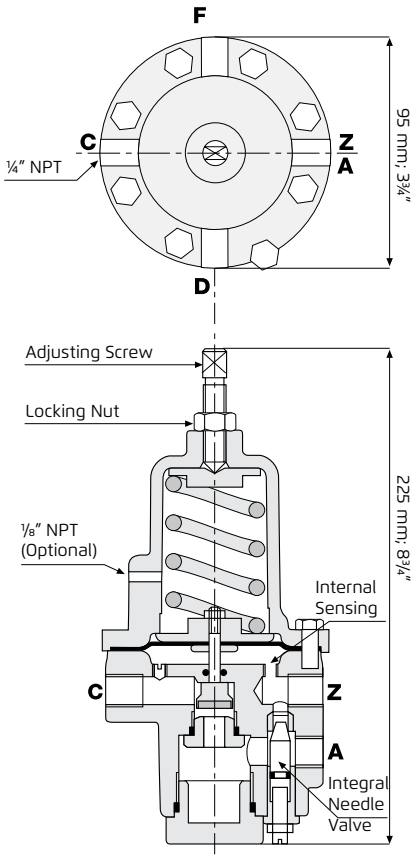
Adjustment Range

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	Standard
16*	2-45	30-430	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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