

## Pressure Reducing Pilot Valve, Metal

### Model PC-20-M

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 seeks to reach equilibrium between hydraulic and set spring forces. When used in a pressure reducing circuit, the pilot modulates closed as downstream pressure rises above set point. An internal restriction acts as an upstream flow restrictor.

### Features

- Internal or external upstream flow restrictor
- Internal or external pressure sensing
- Differential pressure sensing
- Direct pressure gauge installation

### Typical Applications

- Pressure reducing valves sizes 1 1/2"-10" (Standard model #PC-20-M)

### Technical Data

**Pressure Rating:** 16 bar; 232 psi

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

**Flow Factor:** Kv 0.44 m<sup>3</sup>/h @ 1bar ΔP; Cv 0.51 GPM @ 1psi ΔP

**Standard Materials:**

**Body:** Brass

**Cover:** Brass

**Elastomers:** NBR

**Internals:** Stainless Steel & Brass

**Spring:** Galvanized Steel

**Ports:** 1/4" NPT

### Adjustment Range

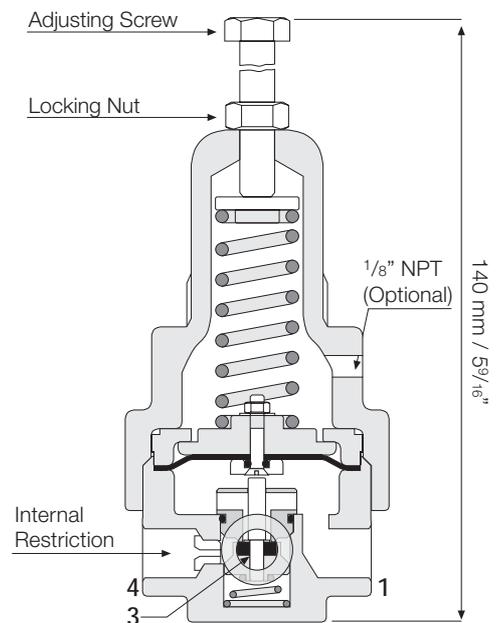
Spring	Pressure	
	bar	psi
G-Blue	1-10	15-145
H-Orange	1-7	15-100
N-Natural	0.8-6.5	11-95
K-Gray	0.5-3	7-40
J-Green*	0.2-1.7	3-25

Standard  
Optional

\* For PC-20-M-D-differential sensing.

### Connections

- 1 or 2 - Downstream / Remote sensing / Pressure gauge
- 3 - Valve control chamber
- 4 - Upstream



Weight: 0.91 Kg; 2.0 lbs.



### Pressure Reducing Pilot Valve

**Model PC-20-P**

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 seeks to reach equilibrium between hydraulic and set spring forces. When used in a pressure reducing circuit, the pilot modulates closed as downstream pressure rises above set point. An internal restriction acts as an upstream flow restrictor.

#### Features

- Internal or external upstream flow restrictor
- Internal or external pressure sensing
- Differential pressure sensing

#### Typical Applications

- Pressure Reducing Valves sizes 1 1/2-4" (Standard model #PC-20-P)
- Closing Surge Control (additional feature 49) for sizes 1 1/2-4" (Modified to external pressure sensing PC-20-P-R)

#### Technical Data

**Pressure Rating:** 10 bar; 145 psi  
**Working Temperature:** Water up to 50°C; 122°F  
**Flow Factor:** Kv 0.22 m³/h @ 1bar ΔP; Cv 0.25 GPM @ 1psi ΔP  
**Standard Materials:**  
**Body & Cover:** Polyamide 6+30% F.G  
**Elastomers:** NBR  
**Internals:** Stainless Steel & Brass  
**Spring:** Galvanized Steel  
**Ports:** 1/8" NPT

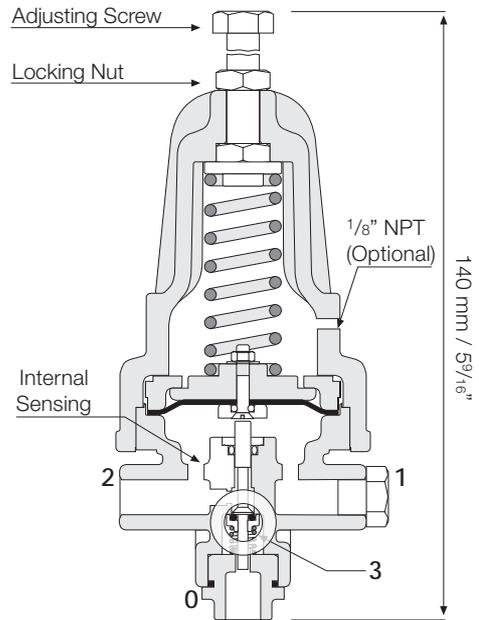
#### Adjustment Range

Spring	Pressure		
	bar	psi	
H-Orange	1-7	15-100	Standard
N-Natural	0.8-6.5	11-95	Optional
K-Gray	0.5-3	7-40	
J-Green*	0.2-1.7	3-25	

\* For PC-20-P-D-differential sensing.

#### Connections

- 0 - Upstream
- 3 - Valve control chamber
- 2 - Downstream
- 1 - Plugged/ External Sensing



Weight: 0.21 Kg; 2.0 lbs.

