



## Model P5

### Piston Sensing Single Stage Pressure Reducing Regulator 1/4" (DN8) NPT

The Model P5 is designed for gases and liquids with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 50-1500 psig (3.4-103 Barg). Flow coefficient of 0.06. This general purpose use regulator can be ordered with a variety of options to meet your system demands.

#### GENERAL SPECIFICATIONS

Inlet & Outlet Port Size:	1/4" (DN8)
Maximum Inlet Pressure:	3,600 psig (248.2 Barg)
Outlet Pressure:	50-1500 psig (3.4-103 Barg)
Body End Connections:	FNPT
Body and Spring Chamber Material:	Electropolished 316L SST/316L SST
Wetted Trim Material:	316L SST Piston, Seat Retainer & Poppet, Inconel X-750 Spring, FKM O-ring
Max Temperature PCTFE	-15 to 175°F (-26 to 79° C)
Approx. Weight	3.0 lbs (1.36 kg)

#### TYPICAL APPLICATIONS

- Injection Moulding Equipment
- High Pressure Gas Booster Systems
- Gas Cabinets
- Research & Development Laboratories

#### FEATURES

- General Purpose
- Non-venting Standard
- Compact & Lightweight
- Panel or Surface Mounting
- Safe & Reliable Piston Design

#### FUNCTIONAL PERFORMANCE

Design Proof Pressure:	7,200 psig (496.4 Barg)
Design Burst Pressure:	14,440 psig (995.6 Barg)
Internal Volume:	2.5 cc
Seat Leakage:	Bubble Tight
Design Liakage Outboard:	1x10 <sup>-5</sup> scc/sec He
Cv Capability:	0.06

## **OPTION DEFINITION FOR TABLE 9**

### **Mounting Bracket - (5)**

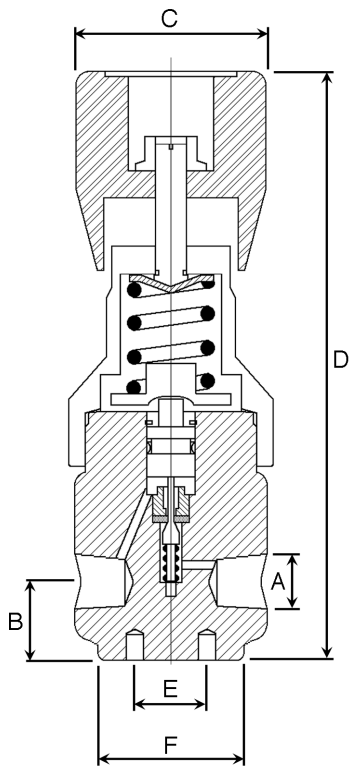
The mounting bracket is a base, or step type. The material is 303 stainless steel. The bracket mounts to the back of the single stage, and back pressure regulators, via 10/32 screws.

### **Panel Mount - (C)**

The panel mount feature requires a panel cut out of 1-3/8", complete with a threaded spring housing, and a panel mount ring to secure the regulator.

### **Colored Knobs - (2, 8, 9 and W)**

In this feature the control knob is anodized aluminum either in black, blue, green or red, compared to the standard red composite knob. This allows for color coding of processes.



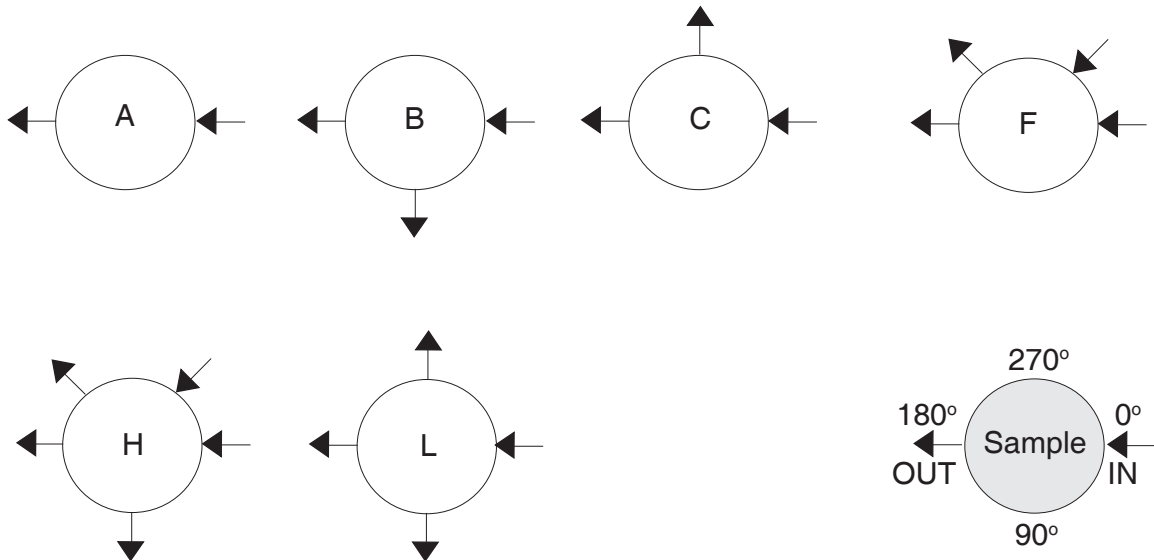
**Dimensions and Weights  
English Units (Inches & lbs)**

Body Size (A)	B	C	D	E	F	Weight
1/4"	.75"	1.99"	5.63"	.75"	2.00"	3.0 lbs

**Metric Units (mm & kg)**

Body Size (A)	B	C	D	E	F	Weight
DN8	19.1	50.5	143.0	22.2	50.8	1.36 kg

**Porting Configuration Guide**



**MODEL P5 PRODUCT CODE** 08/15/07  
**(COMPOSITE RED KNOB STANDARD)**

**P**5 **2** – **S**1 Table 1 **7** – **1** **A** Table 2 Table 3 Table 4 Table 4 Table 4 Table 4 **A**

TABLE 1 - PORTING CONFIGURATION	
Description	CODE
See Porting Chart	**** A
	** B
	** C
	*** F
	*** H
	** L

TABLE 2 - OUTLET GAUGE (See "NOTE" - TABLE 1)	
Psig (Barg)	CODE
0 - 2000 (0 - 137.9)	1
No Outlet Gauge	0

When ordering a valve per one of Cashco's special drawings, the code "X" and the 5-digit number following override all other options. Otherwise, proceed with Tables 3 and 4.

TABLE 3 - INLET GAUGE (See "NOTE" - TABLE 4)	
Psig (Barg)	CODE
0 - 60 (0 - 4.1)	C
0 - 100 (0 - 6.9)	D
0 - 160 (0 - 11.0)	E
0 - 300 (0 - 20.7)	F
0 - 600 (0 - 41.4)	G
0 - 1000 (0 - 69.0)	H
0 - 2000 (0 - 137.9)	1
0 - 3000 (0 - 206.9)	J
0 - 5000 (0 - 344.9)	K
No Inlet Gauge	0

**NOTE:** When specifying Tables 2 & 3, review asterisks in Table 1:  
 \*\* Outlet gauge port only  
 \*\*\* Inlet & outlet gauge ports  
 \*\*\*\* No gauge ports available

TABLE 4 - OPTIONS	
OPTIONS	CODE
No Option	0
Black Knob	2
Mounting Bracket	5
Blue Knob	8
Green Knob	9
Panel Mount	C
Red Knob	W

For Special Construction Other Than Above Contact Cashco for Special Product Code

1. NUMERIC digits assigned first in "ascending" order.
2. ALPHA designations are assigned second in "alphabetical" order.
3. Left justify.
4. Add "0" to all unused squares.
5. If insufficient quantity of squares, consult factory for proper code.