



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 & Spring Chamber Material:	Electropolished 316L SST/316L SST
Wetted Trim Material:	316L SST Piston, Seat Retainer & Poppet, Inconel X-750 Spring
Temperature Range	
PCTFE	-45 to 185°F (-42.7 to 85°C)
Buna-N	-55 to 225°F (-48.2 to 107°C)
FKM	-20 to 300°F (-28.9 to 149°C)
Composite Knob (Standard)	-50 to 200°F (-45.6 to 93°C) For temperatures outside (Std.) knob range see Option for Colored Knobs.

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 Leakage Outboard:	1x10 ⁻⁵ scc/sec He
Cv Capability:	0.06

OPTION DEFINITION FOR TABLE 5

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)

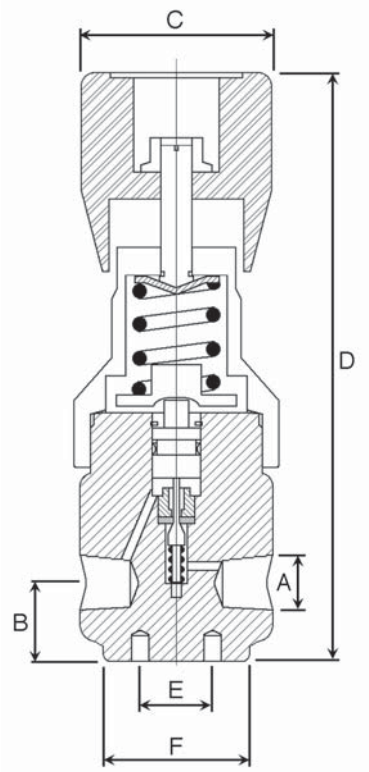
The panel mount feature requires a panel cut out of 1–3/8", complete with a threaded spring housing, and a panel mount ring to secure the regulator.

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

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. Temperature range: -55 to 300°F (-45.6 to 149 °C).

NACE Construction - (Z)

Internal wetted portions meet NACE standard MR0175, when the exterior of the regulator is not directly exposed to a sour gas environment, buried, insulated or otherwise denied direct atmospheric exposure. 316L SST Piston, 316L SST Seat Retainer, Inconel X-750 Poppet Spring.



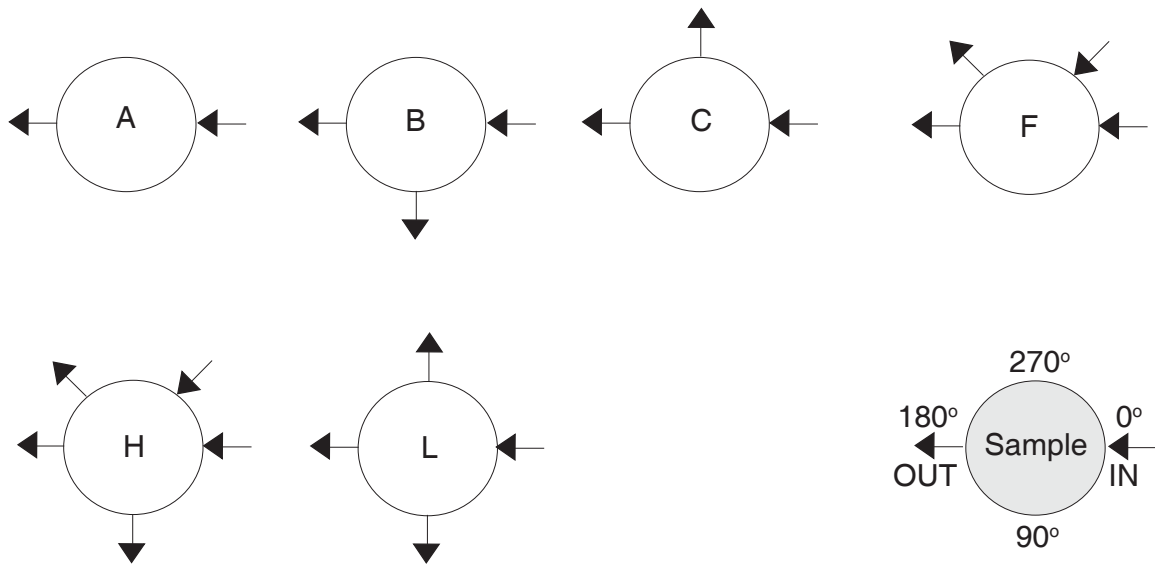
**Dimensions and Weights
English Units (Inches & lbs)**

Body Size (A)	B	C	D	E	F	Weight
1/4"	.90"	1.99"	5.13"	.75"	2.00"	3.0 lbs

Metric Units (mm & kg)

Body Size (A)	B	C	D	E	F	Weight
DN8	23.0	50.5	130.0	19.1	50.8	1.36 kg

Porting Configuration Guide



MODEL P5 PRODUCT CODE 06/28/11
(COMPOSITE RED KNOB STANDARD)

P5 **2** — **S** Table 1 Table 2 **7** — **1A** Table 3 Table 4 Table 5 Table 5 Table 5 Table 5 **A**

TABLE 1 - TRIM MATERIALS		
Piston, Seat Retainer, Poppet, Poppet Spring	O-ring Material	CODE
316L SST, 316L SST, 316L SST, Inconel X-750	FKM (std)	1
	Buna-N *	2

* For Temp below -20°F and NACE Construction

TABLE 2 - PORTING CONFIGURATION	
Description	CODE
See Porting Chart	**** A
	** B
	** C
	*** F
	*** H
	** L

TABLE 3 - OUTLET GAUGE (See "NOTE" - TABLE 2)	
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 4 and 5.

NOTE: When selecting from Tables 3 & 4, review following and select appropriate configuration code from above.

** Outlet gauge port only
 *** Inlet & outlet gauge ports
 **** No gauge ports available

TABLE 4 - INLET GAUGE (See "NOTE" - TABLE 2)		
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	

TABLE 5 - OPTIONS	
OPTIONS	CODE
No Option	0
Black Knob	2
Mounting Bracket	5
Blue Knob	8
Green Knob	9
Panel Mount	C
Red Knob	W
NACE Const. Per MR0175	Z

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.