

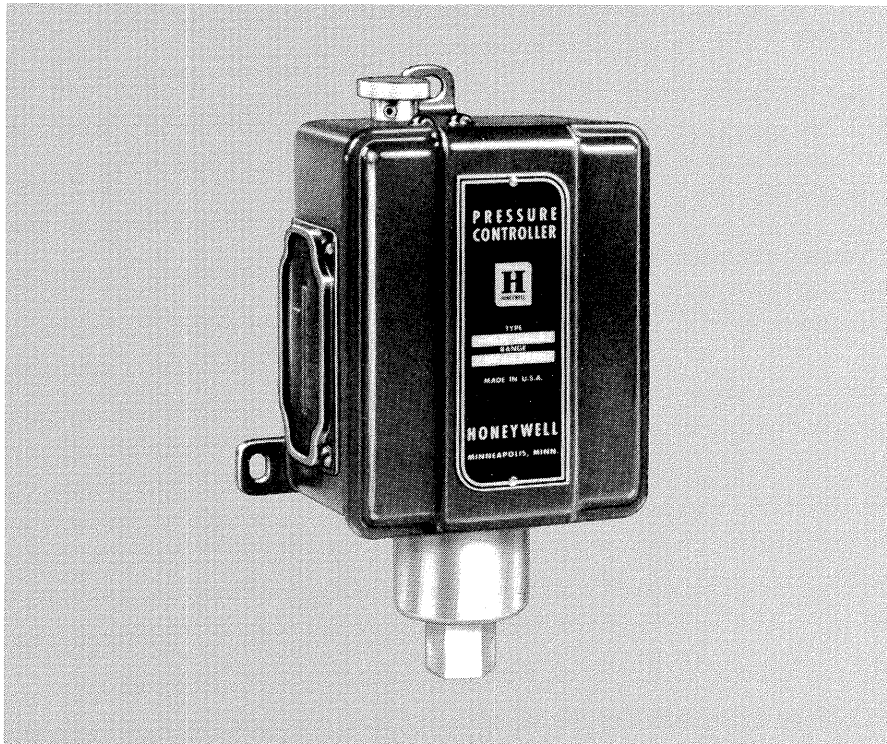
MODEL NUMBER PP97A

General

The PP97A is a one-pipe, bleed type pressure controller for providing proportional control of pneumatic motors and valves, or may be used to control the pressure of steam, air, or noncorrosive liquids and gases.

Features

- Direct- or reverse-acting. Change-over link provides simple change-over.
- Special shockproof, corrosion-resistant model available.
- Easily accessible adjustment.



Specifications

MODEL
PP97A

Table 1. PP97A Specifications

Setpoint Ranges*	Approximate Throttling Range When Controller Setpoint is at Mid-Scale		Max. Allowable Pressure of Controlled Medium
	Minimum	Maximum	
22 in. Hg vac to 35 psi (241 kPa)	0.5 psi (3 kPa)	3.5 psi (24 kPa)	85 psi (596 kPa)
0-16 oz (7 kPa)	0.1 oz. (.04 kPa)	3.2 oz. (1.4 kPa)	5 psi (34 kPa)
0-4 psi (28 kPa)	0.1 psi (.7 kPa)	1.4 psi (10 kPa)	5 psi (34 kPa)
0-15 psi (103 kPa)	0.1 psi (.7 kPa)	1.5 psi (10 kPa)	25 psi (172 kPa)
2-50 psi (14-345 kPa)	0.4 psi (3 kPa)	4.1 psi (28 kPa)	85 psi (586 kPa)
5-150 psi (34-1034 kPa)	0.9 psi (6 kPa)	6.5 psi (45 kPa)	185 psi (1276 kPa)
10-300 psi (69-2068 kPa)	2.5 psi (171 kPa)	12.0 psi (83 kPa)	350 psi (2413 kPa)

*Setpoint range is also marked in kg/sq. cm.

ADJUSTMENT MEANS

External knob on top of case for setting control point. External slotted screw for throttling range.

TYPE OF ELEMENT

Bellows.

AIR CONNECTIONS

1/8 in. NPT female.

PRESSURE CONNECTION TO BELLOWS

14 in. NPT male.

MOUNTING

Lugs for three-point surface mounting.
NOTE: Be certain to allow a minimum of 3 inches above the PP97 for access to setpoint adjustment.

DIMENSIONS

See Figure 1.

FINISH
Gray.

ACCESSORIES

.007 restriction. Siphon furnished with 10 to 300 psi (69 to 2068 kPa) range only.

SPECIAL MODELS AVAILABLE

Shockproof, corrosion resistant, external slotted screw in 10 to 300 psi (69 to 2068 kPa) range.

WHEN ORDERING, SPECIFY

Setpoint range.
Special model, if required.

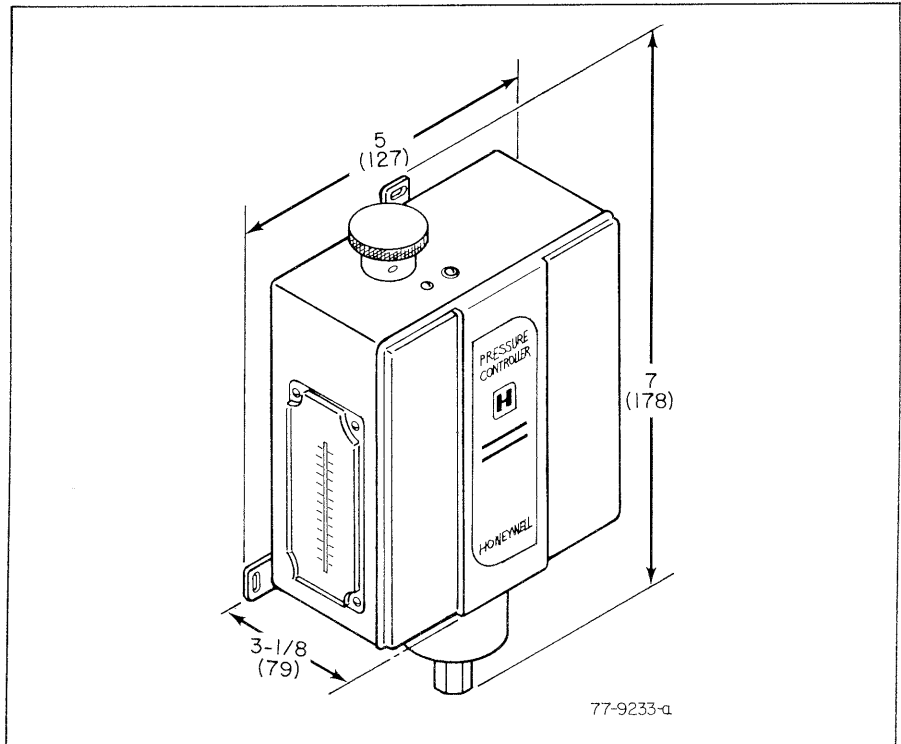


FIG. 1. PP97A APPROXIMATE DIMENSIONS IN INCHES (MILLIMETERS)

Typical Operation

When set for direct-acting and used with a normally open valve, a fall in pressure at the controller system connection will lower the branch line air pressure to the valve providing proportional valve action to match the existing load requirements.

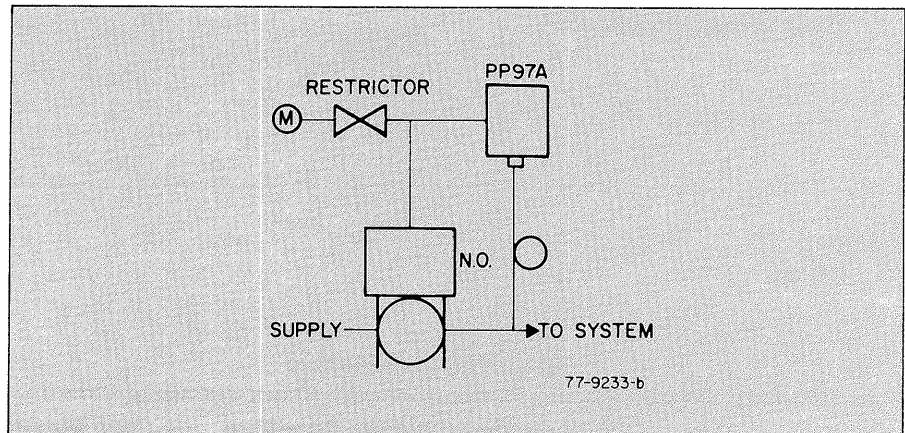


FIG. 2. PP97A TYPICAL OPERATION

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