



Pressure and Differential Pressure Switches, Watertight and Explosion-Proof Enclosure, P-Series

This top-of-the-line Ashcroft® process switch series includes many state-of-the-art features for safety and reliability in virtually all process applications.

- Die cast aluminum enclosure is standard with NEMA 4X (weather-proof, corrosion resistant) NEMA 7 (explosion-proof enclosure Class I, Div. 1 & 2, Groups B, C & D and Class II, Div. 1 & 2, Groups E, F & G). Dual chamber design allows setpoint changes to be made safely even with power connected.

- Single or dual independently adjustable setpoints meet all setpoint requirements
- UL, CSA⁽⁷⁾ listed
- Fixed or adjustable deadband
- Readily available
- Standard pressure connection materials:
 - Pressure psi ranges - 316L stainless steel
 - Differential pressure ranges - Nickel plated brass⁽⁸⁾
 - Pressure and differential inches of water ranges - Epoxy coated carbon steel
- Setpoints adjustable from 15-100% of range



1 - FUNCTION

- PPA - Pressure control, single setpoint, adjustable deadband
- PPD - Pressure control, two independently adjustable setpoints, fixed deadband
- PPS - Pressure control, single setpoint, fixed deadband
- PDA - Differential pressure control, single setpoint, adjustable deadband
- PDD - Differential pressure control, two independently adjustable setpoints, fixed deadband
- PDS - Differential pressure control, single setpoint, fixed deadband

2 - ENCLOSURE

- N7 - NEMA 7/9, IP65, watertight, corrosion resistant and explosion proof Div. 1 & 2

3 - SWITCH ELEMENTS FOR PPA & PDA CONTROLS

Code	Description/Maximum Electrical Ratings UL/CSA Listed
H	General purpose 10A, 125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose 11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR PPD, PPS, PDD & PDS CONTROLS

Code	Switch Elements UL/CSA Listed		
	Single (PS)	Dual (PD)	
K ⁽⁴⁾	KK	Narrow deadband	15A, 125/250 Vac
F ⁽⁴⁾	FF	Sealed environment proof	15A, 125/250 Vac
G ⁽⁵⁾	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P ⁽³⁾	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

4 - ACTUATOR SEAL⁽¹⁾

Code & Material	Process Temp. ⁽²⁾ Limits °F	Range			
		Vac. in.H ₂ O	0-600 psi	1000 psi	2000-3000 psi
B-Buna N	0 to 150	●	●	●	●
V-Viton	20 to 300	●	●	●	
T-Teflon	0 to 150	●	●	●	●
S-SS ⁽⁶⁾⁽⁹⁾	0 to 300		●	●	
P-Monel ⁽⁶⁾	0 to 300		●	●	

5 - PRESSURE PORT⁽¹⁾

Order Code	Description
25	¼ NPT Female
06	¼ NPT Female and ½ NPT Male Combination
07	½ NPT Female

6 - OPTIONS

See pages 238-239

7 - STANDARD PRESSURE RANGES

See page 236

NOTES:

1. These items are wetted by process fluid.
2. Ambient operating temperature limits -20 to 150°F, all styles. Setpoint shift of ±1% of range per 50°F temperature change is normal. Switches calibrated at 70°F reference.
3. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
4. Estimated dc rating, .4A, 120 Vdc (not UL listed).
5. Not UL listed at 480 Vac.
6. Available on pressure only.
7. Refer to Option Table.
8. Order Option XUD, stainless steel process connection.
9. On differential switches, stainless steel is available in 15, 30, 60 and 90 psid ranges only. Includes Teflon O-ring and 316 SS connection.

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments.

- Features:
- UL-recognized component, guide WSQ2, File E85076
 - All-stainless steel welded construction



TO ORDER THIS P-SERIES PRESSURE SWITCH:

Select: _____ PPD N7 GG B 25 XK3 30#

1. Function: _____
2. Enclosure: _____
3. Switch Element: _____
4. Actuator Seal: _____
5. Pressure Port: _____
6. Options (see pages 238-239): _____
7. Pressure Range (see page 236): _____