



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-761.900(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-761.850, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: Ashcroft Inc. Contact Name: Steven St. Hilaire
Company Address: 250 East Main Street City, State: Stratford, CT Zip: 06614
E-mail: Steven.sthilaire@ashcroft.com Contact Number: 203-385-0274
Product Name: P Series Pressure Switch
Model Number(s): PPDN7GGB25XFS30# Product Type: Pressure Switch
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), 62-761.600

F.A.C.: Write a brief description of equipment registration request including product limitations:

Pressure Switch with two independent set points with fixed dead band, 1 switch set at 5 psi decreasing, 1 switch set at 15 psi increasing. 0-30 psi set point range. Rated for -20°F to 150°F ambient temperature and 0°F to 150°F process temperature. (2) SPST microswitches rated for 15A @ 125/250/480 Vac, 1/2A @ 125Vdc. 500 psi proof pressure, 1,500 psi burst pressure. UL and CSA approved for Class 1 Div. 1, Groups B, C & D and Class 1 Div. 2 Groups E & F & G hazardous approval

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☐	☒	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☐	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☒	☐	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☐	☒	☐
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☐	☒	☐
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☐	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☐	☒	☐
10. Any requirements for company-certified installers or trainers?	☐	☒	☐
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- _____	☐	☒	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☒	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

The sensor application-monitoring interstitial space of underground diesel fuel line. It's monitoring the pressure with a duplex monitoring level which is pressurized with nitrogen at 10 psi with pressure set at low point being 5 psi and the high point being 15 psi. The sensor will be installed in a port on the secondary piping, and it will be outdoor application

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Steven St. Hilaire

Printed Name and Title


Signature (right click to sign)

01/24/2022

Date

For Department Use Only:

Date Application Received: _____ Application complete: Yes: ☐ No: ☐

EQ- ☐ Date of complete or incomplete letter sent: _____ Date Equipment Requires Renewal: ☐

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-761.850(2), F.A.C.

UL Product iQ™



NOWT.E38812 - Float- and Pressure-operated Motor Controllers for Use in Hazardous Locations

Float- and Pressure-operated Motor Controllers for Use in Hazardous Locations

See General Information for Float- and Pressure-operated Motor Controllers for Use in Hazardous Locations

ASHCROFT INC
250 E MAIN ST
STRATFORD, CT 06614-5145 USA

E38812

Class I, Groups A, B, C and D; Class II, Groups E, F and G.

Pressure operated switches, Cat. No. A followed by PA or PS, followed by N7 or R7, followed by D or M, followed by C, followed by H or S, followed by a two digit suffix 00 thru 09, followed by a space and one of the following: 30IMV/15, 30, 60, 100, 200, 400, 600, 1000 or 2000, followed by #.

Class I, Div 1 and 2, Groups A, B, C and D, Class II, Div 1, Groups E, F and G and 2, Groups F and G.

Cat. No. FPS followed by N7 or N9, followed by J, JJ, L, LL, P, followed by B, O, P, R, S, T or V, followed by a two digit suffix 06, 07, 20 or 25 and may be followed by X6B, X6N, XCF, XCG, XCH, XCN, XCT, XEC, XEU, XFP, XFS, XNH.

Class I, Groups B, C and D; Class II, Groups E, F and G.

Type No. B7 followed by 20, 22, 23, 24, 25, 26, 27, 31, 32, 34, 42, 50, 61, 62, 63, 64, 66, 67, 68, 70 or 71, followed by B, P, S, T or V, may be followed by XCN, XG3, XG7, XG9, XHX or XTA.

Type No. D7 followed by 20, 22, 23, 24, 25, 26, 27, 31, 32, 34, 42, 50, 61, 62, 63, 64, 66, 67, 68, 70 or 71, followed by suffix letters A through Z inclusive denoting diaphragm material. May be followed by "X" or "#" with variations.

Type No. WP7 followed by 20, 22, 23, 24, 25, 26, 27, 31, 32, 34, 42, 50, 61, 62, 63, 64, 66, 67, 68, 70 or 71, followed by letters A through Z inclusive denoting diaphragm material; may be followed by "X" or "#"; may be followed by a four digit.

Type No. WD7 followed by 20, 22, 23, 24, 25, 26, 27, 31, 32, 34, 42, 50, 61, 62, 63, 64, 66, 67, 68, 70 or 71, followed by suffix letters A through Z inclusive denoting diaphragm material. May be followed by "X" or "#" with variations.

Cat. No. PD or PP followed by A, D or S, followed by N7, followed by C, CC, F, FF, G, GG, H, HH, J, JJ, KK, L, LL, M, MM, N, NN, P, PP, R, RR, S, SS, W, WW X, Y or YY, followed by B, P, S, T, V or WS, followed by 02, 03, 06, 23, 25 or 50, may be followed by X2B, XCG, XCH, XFP, XFS, XG9, XGB, XHX, XK3, XNH, XO6 or XTA, followed by additional alphanumeric suffix characters indicating pressure range; for hazardous locations and also suitable for wet locations.

Class I, Groups A, B, C and D; Class II, Groups E, F and G.

Pressure operated switches, Series A, followed by P, followed by A or S, followed by N7, followed by 1H, 1P, 1G, 1L, 2H, 2P, 2G, or 2L, followed by 4 alphanumeric characters, followed by S, B, or V, followed by two alphanumeric characters, followed by up to 10 alphanumeric characters, followed by up to 5 alphanumeric characters, followed by R or D, may be followed by X or #, may be followed by additional alphanumeric characters.

Last Updated on 2017-12-05

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CUSTOMER	CLASS	FILE NUMBER
Ashcroft Inc. 250 East Main St Stratford Connecticut United States 06614	3238-01 (/testing-certification/product-listing/class/?class=3238-01) SWITCHES - Automatic - Pressure Type - For Hazardous Locations	055541_0_000

Class I, Groups A, B, C and D; Class II, Groups E, F and G:

- Pressure Operated Switches, Series APS and APA, rated 120/240V ac, 1/5A, MWP 500 psi.
- Pressure operated switches, Cat No FPS followed by N7 or N9 followed by P, J, L or PP, JJ, LL followed by B, V, T, S, P or R followed by a two digit Suffix 25, 06 or 07; max working pressure range 3000 psi; electrical rating as noted below (as indicated with suffix

Suffix	Rating
P	5A, 125/250V ac
J	11A, 125/250V ac; 5A, 30V dc
L	1A, 125V ac
PP	5A, 125/250V ac
JJ	11A, 125/250V ac; 5A, 30V dc
LL	1A, 125V ac

Class I, Groups B, C and D; Class II, Groups E, F and G:

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Notes:

1) Electrical ratings:

Switch Code	Rating (maximum)
20, 50, 61	15A, 125, 250 or 277V ac; 1/8 hp, 125V ac, 1/4 hp, 250V ac
21, 65	5A, 125, 250 or 480V ac; 1/2A, 125V dc; 1/4A, 250V dc
24, 64, 72	15A, 125/250/480V ac; 1/8 hp, 125V ac, 1/4 hp, 250V ac; 1/2A, 125V dc; 1/4A, 250V dc.
25	10A, 125V ac/dc, 1
26, 27, 62, 63	15A, 125/250/480V ac; 1/8 hp, 125V ac, 1/4 hp, 250V ac
31, 70	1A, 125V ac.
23	22A, 125/250/277V ac, 125/250V ac, 1/4/1
22, 67	5A, 125/250V ac (1 or 2 spdt, hermetically sealed).
32, 68	5A, 125/250V ac, 30V dc (1 or 2 spdt or hermetically sealed)
34	20A, 125/250/480V ac, 3/4 hp, 125V ac, 1/2 hp, 250V ac.
73	15A, 125/250/480V ac, 1/2 A, 125V dc, 1/4A, 250V dc, 1/8 hp, 125V ac, 1/4 hp, 250V ac

2) All switch model numbers include Suffix "CX8" or "C8" to denote CSA Certified model.

3) When provided with breather/drain per option Suffix "X2B", the switch units are not suitable for use in Class I, Group B or Class II, Group E.

Class I, Groups B, C and D; Class II, Groups E, F and G:

- Pressure switches, Series P, followed by alpha-numeric suffixes denoting mechanical options and pressure ranges, rated 3000 psi max working pressure or 600 PSI for "Dual Seal" rated version, equipped with 1 or 2 switches, electrical ratings as noted below:

Note: Electrical ratings:

Suffix	Rating (max)
K, KK, F, FF	15A, 125/250V ac.
G, GG	15A, 125/250V ac; 1/2A, 125V dc.
P, PP	5A resistive, 125/250V ac.
J, JJ	11A, 125/250V ac; 5A, 28V dc.
W, WW	5A, 125/250V ac; 1/2A, 125V dc.
C, CC	20A, 125/250V ac

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R, RR	15A, 125/250V ac; 1/2A, 125V dc
L, LL	1A, 125V ac.
H, HH	10A, 125/250Vac; 1/2A, 125Vdc; 1/4A, 250Vdc

Class I, Groups A, B, C, and D, Div. 2:

- Pressure switches with hermetically sealed snap switch, Series B700 (last two digits denote switch code; see Note), followed by alpha-numeric suffixes denoting mechanical options and pressure ranges, rated 20685kPa (3000 psi) max or 600 PSI for "Dual Seal" rated version, electrical ratings as noted below.
- Differential pressure switches with hermetically sealed snap switch, Series D700 (last two digits denote switch code, see Note), followed by alpha-numeric suffixes denoting mechanical options and pressure ranges, rated 600 psi max differential pressure or 13790kPa (2000 psi) max working pressure, or 150 IWC (app. 5.4 psi) for "Dual Seal" rated version electrical ratings as noted below.

Notes:

1. Electrical Ratings

Switch Code	Rating (Max)
22	5A, 125/250V ac
32	5A, 125/250V ac, 30V dc
67	5A, 125/250V ac (2 spdt)
68	5A, 125/250V ac, 30V dc (2 spdt)

2. All switch model numbers include Suffix "XC8" or "C8" to denote CSA Certified model.

Class I, Groups A, B, C and D; Class II, Groups E, F and G:

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G:

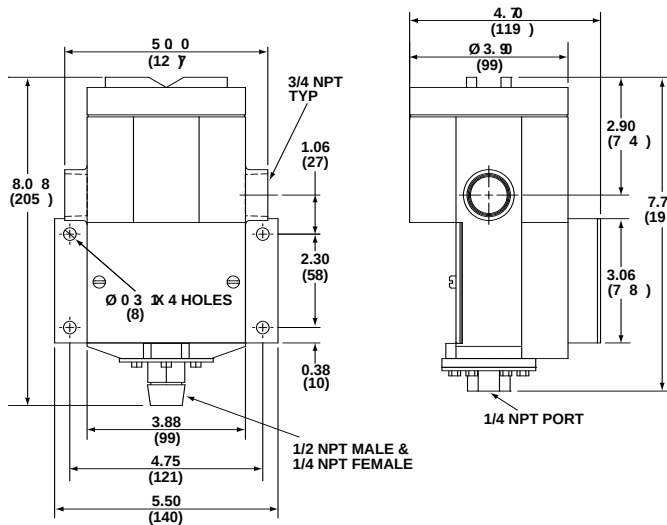
- Temperature operated switches - Cat No FTS, followed by N7 or N9, followed by P, J, L, PP, JJ, LL, followed by 00, 05, 10, 15, 20, 30, 35, 40, 45 or 50, followed by A2, A5, A6 or A7, followed by 027, 030, 040, 060, 090, 120 or 150, maybe followed by XCH, XCN, XFP, XFS, XNH, X6B, X6N, XEC or XK3, followed by N40/60F, 0/100F, 75/205F, 150/260F, 235/375F, 350/525F, 500/750F, N40/16C, N20/40C, 20/95C, 60/125C, 110/190C, 175/275 or 260/400; max temperature rating 750F (400C); electrical rating as noted below (as indicated with suffix).

Suffix	Rating
P	5A, 125/250V ac
J	11A, 125/250V ac; 5A, 30V dc
L	1A, 125V ac
PP	5A, 125/250V ac
JJ	11A, 125/250V ac; 5A, 30V dc
LL	1A, 125V ac

Installation and Maintenance Instructions for ASHCROFT® P-Series Snap Action Switches for Pressure Control



psi Ranges

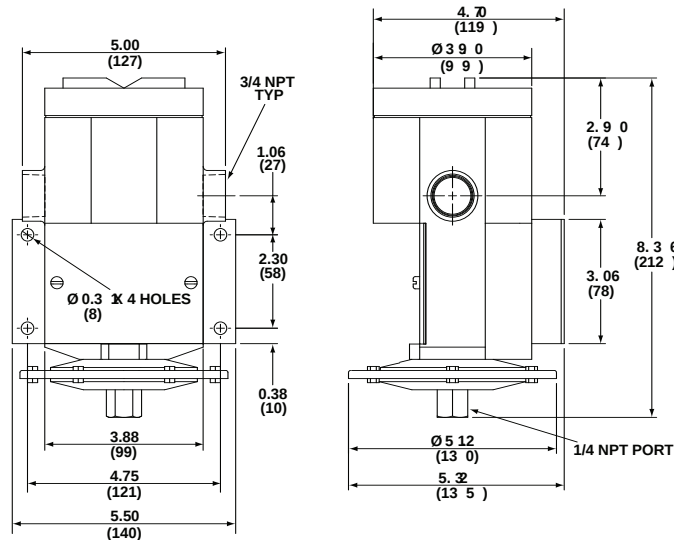


N4 - 5.0 lb. (2.3)
N7 - 5.6 lb. (2.5)

STANDARD RANGES

15, 30, 60, 100, 200, 400, 600 psi
1000, 2000, 3000 psi
30"Hg vac.-0 psi
30"Hg vac.-15 psi

H₂O Ranges



N4 - 5.7 lb. (2.6)
N7 - 6.3 lb. (2.9)

STANDARD RANGES

30, 60, 100, 150 H₂O

INTRODUCTION

The Ashcroft pressure control is a precision device which features a snap action switch. Fixed deadband is available with single or dual SPDT independently adjustable switches with various electrical ratings. Adjustable deadband is available with a SPDT switch with various electrical ratings. Several wetted material constructions for compatibility with pressure media may be obtained.

The "P" Series Ashcroft snap action pressure switch is available in both standard NEMA~ and explosion-proof NEMA 7 & 9 configurations. The enclosure is an epoxy coated aluminum casting.

INSTALLATION

This control is a precision instrument and should never be left with internal components exposed. During installation insure that covers are in place and conduit openings are sealed.

MOUNTING

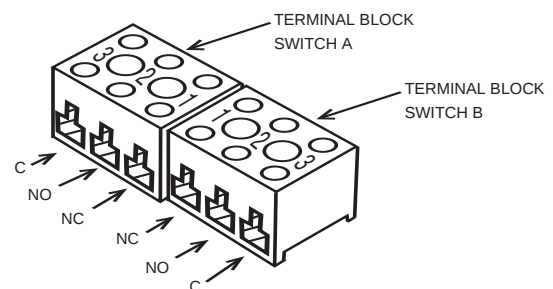
Four holes in the bracket supplied are used in surface mounting of the control. Location of these holes is shown on the general dimension drawings. An optional pipe mounting bracket is also available. Mount on a vibration free surface or pipe. When tighten-

ing control to pressure line, always use the wrench flats or hex on the pressure connection. Never tighten by twisting the case.

ELECTRICAL CONNECTION

Remove top cover, cover unscrews (CCW).

On all units except one with terminal blocks-wire directly to the switch according to circuit requirements. Units with terminal blocks-wire directly to terminal blocks as required. Terminals are marked common, norm open and norm closed.



Installation and Maintenance Instructions for ASHCROFT® P-Series Snap Action Switches for Pressure Control

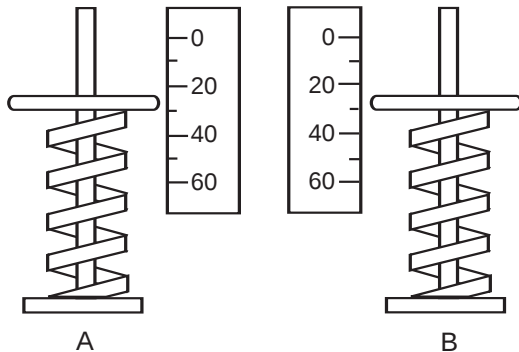


CONDUIT CONNECTIONS

Two ¾ NPT holes are provided, one fitted with a plug, the other with a cap. It is recommended that Teflon tape or other sealant be used on conduit bushing or plug threads to ensure integrity of the enclosure. NEMA 7 & 9 enclosures require proper conduit seals and breathers as per the National Electrical Code.

SETPPOINT ADJUSTMENTS

Series PP-S Single Switch – Remove front cover, held in place by two screws. For setpoint adjustment to within + 1% of nominal range, use a suitable reference such as an Ashcroft Duragauge or test gauge. Monitor switch with a suitable pilot light or meter. Pressurize the system to the required setpoint and turn the adjusting wheel until the switch changes mode. When the setpoint has been achieved, raise and lower the pressure to insure that the setpoint is correct.



Series PP-D Dual Switch – Remove front cover, held in place by two screws. There are two range adjusting wheels. The adjusting wheel on the left (labeled A) controls the left switch, the adjusting wheel on the right (labeled B) controls the right switch. The switches are set independently.

NOTE: The units are calibrated at the factory such that for proper operation switch B setpoint must be set higher than switch A setpoint.

For setpoint adjustment to within ±1% of nominal range mount the switch on a calibration stand, and use a suitable reference such as an Ashcroft Duragauge or test gauge. Monitor switch with a suitable pilot light or meter.

Pressurize the system to the required setpoint and turn the adjusting wheel until the switch changes mode. When the setpoint has been achieved, raise and lower the pressure to insure that the setpoint is correct. This must be done for both setpoint A and setpoint B.

Series PP-A Adjustable Deadband Switch – Remove front cover, held in place by two screws. The adjusting wheel labeled A controls the resetpoint of the switch. The adjusting wheel labeled B controls the setpoint of the switch.

Note: The units are calibrated at the factory such that for proper operation setpoint B is always higher than resetpoint A.

For accurate setpoint adjustment, mount the switch on a calibration stand, and use a suitable reference such as an Ashcroft Duragauge or Test Gauge. Monitor switch with a suitable pilot light or meter. Pressurize the system to the required setpoint. Move adjusting wheel on spring B until switch changes mode. Then lower pressure to the resetpoint, move adjusting wheel on spring A until the switch changes mode. Raise and lower pressure to insure that setpoint is correct. Repeat as necessary.

Note: Since vacuum models are already above setpoint at atmosphere, the Normally Open (NO) circuit will be closed as received.

P-Series Explosion Proof Pressure Switches

FEATURES

- Precision SPDT snap-acting micro switch
- Setpoint adjustable from 15-100% of range
- Single or dual adjustable set points
- Fixed or adjustable deadband
- Wide selection of switch elements
- Fixed or adjustable deadband

TYPICAL USES

- Refineries
- Chemical and Petrochemical Plants
- Steel Mills
- Water and Sewage Treatment Plants
- Pumps, Compressors and Turbines
- Boilers and Burners
- Reverse Osmosis Systems and Filters



P-Series
Explosion-Proof Enclosure



P-Series
Explosion-Proof Enclosure
Differential Pressure Switch



SPECIFICATIONS

Set Repeatability (Accuracy):	±1% of span (Additional setpoint shift of ±1% of range per 50°F from initial setpoint set at 70°F typical)
Switch Type:	SPDT or 2 SPDT with independent setpoints
Setpoint:	Single setpoint, fixed deadband Single setpoint, adjustable deadband Dual independent setpoints, fixed deadband
Deadband:	Fixed or adjustable deadband
Enclosure Ratings:	NEMA 7 & 9, IP66
Enclosure Material:	Epoxy coated aluminum
Process Connection:	¼ NPT Female, ½ NPT Female, ¼ NPT Female and ½ NPT Male Combination
Electrical Termination:	¾ NPT Female

APPROVALS

Explosion Proof:	UL, CSA  CLASS I DIV 1 GROUPS B, C, & D CLASS II DIV 1 GROUPS E, F, & G
Standard:	CRN

KEY BENEFITS

- Epoxy-coated aluminum enclosures provide added protection in harsh environments
- Dual chamber design provides safe setpoint adjustment even with power connected
- Designed for use in wide range of applications
- Easily configurable to meet your application requirements
- Hermetically sealed micro switches offer improved reliability and safety (UL Class I Div II approval)

WETTED COMPONENTS

Actuator Seal	Process Connection:	
Buna-N®, Teflon®, Viton®, 316L SS, or Monel®	Pressure Switches 316L SS or Monel® for psi ranges Epoxy coated carbon steel or 316L SS for IW ranges	Differential Switches Nickel plated brass or 316L SS for psid ranges Epoxy coated carbon steel or 316L SS for IWD ranges

Data Sheet

P-Series Explosion Proof Pressure Switches

ORDERING CODE	Example:	PPSN7	G	S	25	X6B	100#
Enclosure – Pressure Switch							
PPSN7 - Single setpoint, fixed deadband, N7-NEMA 7 & 9, IP66, explosion proof Div, 1 & 2		PPSN7					
PPDN7 - Two independent adjustable setpoints, fixed deadband, N7-NEMA 7 & 9, IP66, explosion proof Div, 1 & 2							
PPAN7 - Single setpoint, adjustable deadband, N7-NEMA 7 & 9, IP66, explosion proof Div, 1 & 2							
Enclosure – Differential Pressure Switch							
PDSN7 - Single setpoint, fixed deadband, N7-NEMA 7 & 9, IP66, explosion proof Div, 1 & 2							
PDDN7 - Two independent adjustable setpoints, fixed deadband, N7-NEMA 7 & 9, IP66, explosion proof Div, 1 & 2							
PDAN7 - Single setpoint, adjustable deadband, N7-NEMA 7 & 9, IP66, explosion proof Div, 1 & 2							
Switch Elements For Single Setpoint with Adjustable Deadband - UL/CSA Listed							
H - General purpose, 10A - 125/250 Vac. ½A, 125Vdc, ¼A, 250Vdc							
J - Hermetically sealed, general pupose - 11A, - 125/250 Vac, 5A, 30Vdc							
Single/Dual Switch Setpoint with Fixed Deadband - UL/CSA Listed							
C/CC - Heavy duty ac, 22A - 125/250 Vac							
E/EE - Manual reset acutates on decreasing pressure 15A, 125/250 Vac 6A, 130 Vdc (no hazardous approval)							
F/FF - Sealed environment proof, 15A - 125/250 Vac. (estimated dc rating - 4A, 28Vdc, not UL listed)							
G/GG - General purpose, 15A - 125/250/480 Vac, ½A - 125 Vdc, ¼A - 250 Vdc (not listed at 480 Vac)			G				
H/HH - General purpose, 10A - 125/250 Vac 10A, Vdc							
J/JJ - Hermetically sealed switch, general purpose, 11A, 125/250 Vac, 5A, 30 Vdc							
K/KK - Narrow deadband, 15A - 125/250 Vac. (estimated dc rating, 0.4A, 120 Vdc, not UL listed)							
L/LL - Hermetically sealed switch, gold contacts, 1A - 125 Vac							
M/MM - Low level (gold) contacts, 1A - 125 Vac							
P/PP - Hermetically sealed AC - 5A, 125/250 Vac. (estimated dc rating - 2.5A, 28Vdc, not UL listed)							
S/SS - Heavy duty dc, 10A - 125 Vac or dc, ½ HP - 125 Vac or dc.							
U/UU - Manual reset actuates on increasing pressure 15A, 125/250 Vac, 6A, 130Vdc (no hazardous approval)							
Y/YY - High temperature 300°F (148°C) ambient, 15A, 125/250 Vac							
W/WW - Ammonia service - 5A, 125/250 Vac, 6A, 30 Vdc							
Actuator Seal							
	Temperature Limits						
Material	Ambient	Process					
B - Buna-N®	-20°F to 150°F	0°F to 150°F					
V - Viton®	-20°F to 150°F	20°F to 300°F					
T - Teflon®	-20°F to 150°F	0°F to 150°F					
S - 316L SS	-20°F to 150°F	20°F to 300°F				S	
P - Monel®	-20°F to 150°F	20°F to 300°F					
Process Connections							
25- ¼ NPT Female					25		
06- ¼ NPT Female and ½ NPT Male combination							
07- ½ NPT Female							
Options - Select from Table 4 on page 4 (If choosing an option(s) must include an "X")							
6B - Cleaned for oxygen service (NA w BUNA-N actuator seal)						X _ _	
						6B	
Pressure Range (select from pressure range tables on page 3)							
100# - 100 psi							100#

Data Sheet

P-Series Explosion Proof Pressure Switches

TABLE 1 - PRESSURE/VACUUM RANGES					Approximate Deadband Switch Element for Buna-N® Diaphragm								
Nominal Ranges			Overpressure Ratings		See multiplier TABLE 3 for additional material multipliers								
					PPA	PPS				PPD			
			Proof psi	Minimum Burst psi	Switch Element								
			J, H	G	J, H	K, F	P	GG	JJ, HH	KK, FF	PP		
Vacuum													
30IMV	-760mmHg	-100 kPa	250	400	7-26	3-5	3-6.5	1-2	1-2.5	3-5	4-6.5	1-2	1-2.5
Compound													
30IMV/ 15#	-760mmHg/ 1.0 kg/cm²	-100 kPa 100 kPa	250	400	10-25 4-13	3-5 1-2	4-6 1-3.5	1-2 0.5-1	1-2.5 0.5-1.2	3-5 2-4	2.5-4.5 1.3	1-2 0.5-1	1-2.5 0.5-1.2
Pressure													
30IW	750mmH ₂ O	7.5 kPa	20	35	4-27	1.5-3.5	2-5	0.5-1	0.5-2	1.5-3.5	2-5	0.5-1	0.5-2
60IW	1,500mmH ₂ O	15 kPa	20	35	5-54	1.5-3.5	2.5-5	0.5-1.3	1-2	1.5-3.5	2.5-5	0.5-1.3	1-2
100IW	2,500mmH ₂ O	25 kPa	20	35	8.5-90	4-6	4-8.5	1-2	1-3	4-7	4-8.5	1-2	1-3
150IW	3,750mmH ₂ O	37 kPa	20	35	18-135	5.0-11	10-18	1.5-3	2-6	8-14	10-18	1.5-3	2-6
15#	1.0 kg/cm²	100 kPa	500	1,500	2.5-13	1-2	1-3	0.5-1	0.5-1.2	1-2	1-3	0.5-1	0.5-1.2
30#	2.0 kg/cm²	200 kPa	500	1,500	3-26	1-2.5	2-4.5	0.5-1.5	0.5-1.5	1-2.5	2-4.5	0.5-1.5	0.5-1.5
60#	4.0 kg/cm²	400 kPa	500	1,500	5-54	2-4	4-7	1-2	1-2.5	2-4	4-7	1-2	1-2.5
100#	7.0 kg/cm²	700 kPa	1,000	3,000	10-90	5-7	5-10	1-2.5	2-4	5-7	5-10	1-2.5	2-4
200#	14 kg/cm²	1,400 kPa	1,000	3,000	20-180	10-15	10-18	1-4	5-8	10-20	15-35	3-6	5-8
400#	28 kg/cm²	2,800 kPa	2,400	3,000	45-360	16-30	16-45	4-8	5-15	16-30	16-45	4-8	5-15
600#	42 kg/cm²	4,200 kPa	2,400	3,000	75-540	16-50	20-75	5-15	6-25	16-50	20-75	5-15	6-25
1000#	70 kg/cm²	7,000 kPa	12,000	14,000	160-900	75-130	50-160	7-30	10-85	75-130	50-160	7-30	10-85
2000#	140 kg/cm²	14,000 kPa	12,000	14,000	350-1,800	150-200	150-350	20-50	25-110	150-200	150-350	20-50	25-110
3000#	210 kg/cm²	21,000 kPa	12,000	14,000	400-2,600	180-250	180-400	30-70	50-250	180-250	180-400	30-70	50-250

TABLE 2 - DIFFERENTIAL PRESSURE RANGES				Approximate Deadband Switch Element for Buna-N® Diaphragm								
Nominal Ranges		Overpressure Ratings		See multiplier TABLE 3 for additional material multipliers								
				PDA	PDS				PDD			
		Static psi	Minimum Proof psi	Switch Element								
				J, H	G	J, H	K, F	P	GG	JJ, HH	KK, FF	PP
Differential Pressure												
30IWD	−760mmHg	5.4	21.6	5.5-27	3-5	4-6.5	0.5-1	0.5-2	3-5	4-6.5	0.5-1	0.5-2
60IWD	1,500mmH ₂ O	5.4	21.6	5.5-54	3-5	4.5-6.5	0.5-1.3	1-2	3.5	4-6.5	0.6-1.3	1-2
100IWD	2,500mmH ₂ O	5.4	21.6	8.5-90	4-6	4.0-8.5	1-2	1-3	4-7	4-8.5	1-2	1-3
150IWD	3,750mmH ₂ O	5.4	21.6	18-135	5-11	10-18	1.5-3	2-6	8-12	10-18	1.5-3	2-6
30#D	1.0 kg/cm²	500	1,500	2.5-13	1-2	1-3	0.5-1	0.5-1.2	1-2	1-3	0.5-1	0.5-1.2
60#D	2.0 kg/cm²	500	2,000	6.5-54	1-2.5	2-4.5	1-1.5	1-1.5	1-2.5	2-4.5	0.5-1.5	0.5-1.5
100#D	7.0 kg/cm²	1,000	4,000	10-90	5-7	5-10	1-2.5	2-4	5-7	5-10	1-2.5	2-4
200#D	14 kg/cm²	1,000	4,000	20-180	10-15	10-18	1-4	5-8	10-20	10-18	3-6	5-8
400#D	28 kg/cm²	1,000	8,000	45-360	16-30	16-45	4-8	5-15	16-30	16-45	4-8	5-15

TABLE 3 - DEADBAND MULTIPLIER TABLE		
Diaphragm Material	Multiply	Notes
Buna-N®	1.0	Multiplier table for additional diaphragm materials
Viton®	1.4	
Teflon®	1.7	
316 SS	1.7	Not applicable for adjustable deadband units PPA, PDA
Monel®	1.7	

Data Sheet

P-Series Explosion Proof Pressure Switches

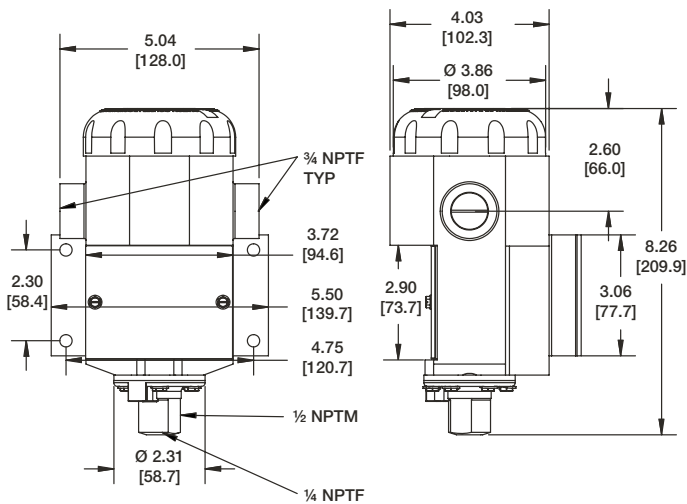
TABLE 4 - OPTIONS		Pressure		Differential Pressure		Notes
Code	Description	psi	inH ₂ O	psid	inH ₂ O	
CH	Chained cover	•	•	•	•	
FP	Fungus proofing	•	•	•	•	
FS	Factory adjusted setpoints (Supply static pressure for D/P switches)	•	•	•	•	
G9	Fire safe actuator	•				SS and Monel Actuator only
HS	High static operating pressure for psi range D/P			•		15# & 30# with B or V actuator seals only
HY	Hydrostatic testing	•	•	•	•	
HX	High operating pressure for inH ₂ O ranges					
	40 psi Static (Pressure and D/P)		•	•		
	100 psi Proof (Pressure)					
	160 psi Proof (D/P)					
JL	¾" to ½" Reducing bushing	•	•	•	•	
K3	Terminal blocks	•	•	•	•	
LE	6ft Wired leads	•	•	•	•	
MA	NACE (MR-01-75)	•	•	•	•	Only with Monel actuator seal
MD	Metric range on label	•	•	•	•	
NH	Tagging SS	•	•	•	•	
PM	¾" Sealed conduit connection with 16" lead wires	•	•	•	•	
TA	316 SS pressure connection for H ₂ O ranges		•		•	
TM	2" Pipe mounting bracket	•	•	•	•	
UD	316 SS Pressure Connection for psid ranges			•		Standard on models with S actuator seal
C4	Calibration chart	•	•	•	•	
C8	CSA approval	•	•	•	•	
D2	Dual seal rating	•			•	Must order with XC8
6B	Cleaned for oxygen service	•		•		N/A with BUNA-N® actuator seal

P-Series Explosion Proof Pressure Switches

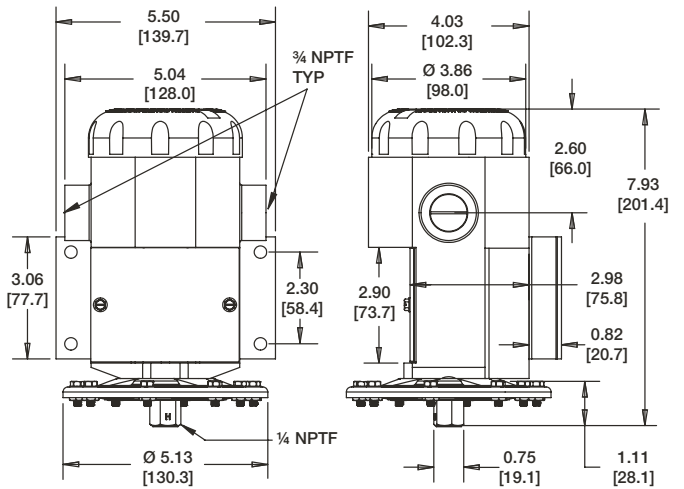
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings.

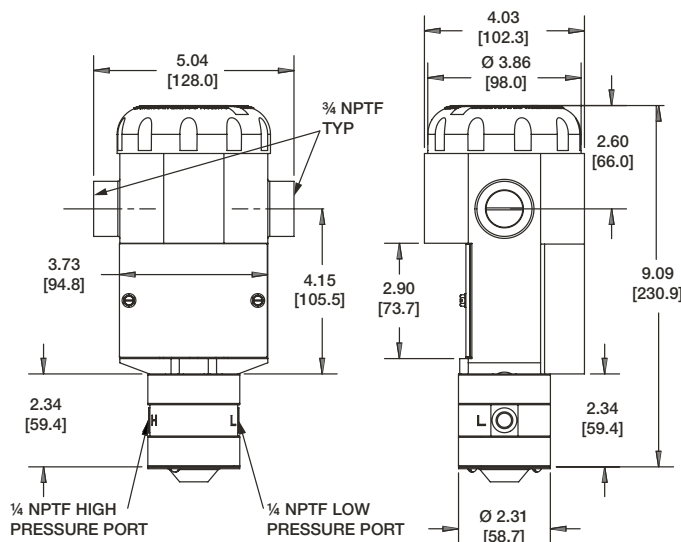
PRESSURE SWITCH – PSI RANGES



PRESSURE SWITCH – INCHES OF WATER RANGES



DIFFERENTIAL PRESSURE SWITCH – PSI DIFFERENTIAL RANGES



DIFFERENTIAL PRESSURE SWITCH – INCHES OF WATER RANGES

