Data Sheet



F-Series Pressure Switches

FEATURES

- Explosion proof enclosure with hermetically sealed micro switches
- Dual chamber for safety
- Precision SPDT or DPDT snap-acting micro switch
- Setpoint adjustable from 15-100% of range
- Wide selection of switch elements

TYPICAL USES

- Offshore oil rigs
- Chemical and petrochemical plants
- Water and wastewater pressure control
- Pulp and paper

SPECIFICATIONS

- Pipelines
- Corrosive and hazardous locations
- Engines, compressors and turbines
- Specialized OEM equipment



F-Series

Explosion-Proof Enclosure

Setpoint Repeatability: ±1% of span (additional setpoint shift of ±1% of range per 50°F from initial setpoint set at 70°F typical) Switch Type: 1 SPDT or 2 SPDT acting as DPDT Setpoint: Single setpoint - Factory set or field adjustable Deadband: Fixed Ambient Temperature Range: Enclosure Ratings: NEMA 3, 4, 7, 9, IP66

Enclosure Ratings: NEMA 3, 4, 7, 9, IP66 Enclosure Material Anodized aluminum

Electrical Connection: ½ NPT Male with 18" wire leads Process Connection ¼ NPT Female, ½ NPT Female

Size:

Approvals: UL, CSA



CLASS I DIV 1, DIV 2 GROUPS A, B, C, & D CLASS I-I DIV 1 GROUPS E, F, & G

WETTED COMPONENTS	
Actuator Seal	Process Connection
Buna-N [®] , Teflon [®] , Viton [®] , 316L SS, SS Piston/Viton [®] O-Ring	316 SS

KEY BENEFITS

- Compact design
- Hermetically sealed micro switches offer improved reliability and safety
- Designed for applications such as alarm, shutdown, control and interlock



F-Series Pressure Switches

NOMINAL RANGE AND PERFORMANCE TABLE Buna-N® (CODE B)							
Nominal Ranges		Proof Press.	Deadband (by Switch Element)				
psi	bar	psi	Code J	Code P, L			
30 IMV	-1	1,000	1.8-8.0	0.4-5.0			
30#	2	1,000	0.2-1.5	0.1-1.3			
60#	4	1,000	0.2-2.5	0.3-1.5			
100#	7	1,000	0.5-4.0	0.5-2.5			
200#	14	1,000	1.5-8.0	0.5-5.0			
400#	28	1,600	3.0-15.0	1.5-9.0			
600#	40	2,400	4.0-28.0	2.0-15.0			
1000#	70	4,000	6.0-50.0	3.0-30.0			

NOMINAL RANGE AND PERFORMANCE TABLE HIGH PRESSURE (CODE H)

Nominal Ranges		Proof Press.	Deadband (by Switch Element)			
psi	bar	psi	Code J	Code P, L		
1000#	70	12,000	50-100	N/A		
2000#	140	12,000	,000 100-200 N/	N/A		
3000#	210	12,000	150-300	N/A		
4000#	280	16,000	150-350	N/A		

NOMINAL RANGE AND PERFORMANCE TABLE WELDED SS (CODE S)

ı	WELDED 33 (OODE 3)								
Nominal Ranges		Proof Press.	Deadband (by Switch Element)						
	psi	bar	psi	Code J	Code P, L				
	30#	2	1,000	1.0-4.5	0.5-3.5				
	60#	4	1,000	1.0-5.0	0.5-4.0				
	100#	7	1,000	1.5-10.0	1.0-6.0				
	200#	14	1,000	2.0-18.0	1.0-12.0				
	400#	28	1,600	5.0-32.0	2.0-20.0				
	600#	40	2,400	9.0-50.0	4.0-30.0				
	1000#	70	4,000	15.0-80.0	7.0-50.0				

NOTE: Setpoint adjustability for welded SS is 20-100% of range increasing

NOMINAL RANGE AND PERFORMANCE TABLE VITON®, TEFLON®, SS w/VITON O-RING (CODES V, T & R)						
Nominal Ranges		Proof Press.	Deadband (by Switch Element)			
psi	bar	psi	Code J	Code P, L		
30 IMV	-1	1,000	1.5-10.0	0.5-7.0		
30#	2	1,000	0.5-3.5	0.2-2.5		
60#	4	1,000	0.5-4.0	0.5-3.0		
100#	7	1,000	1.0-7.0	1.0-4.5		
200#	14	1,000	2.5-12.0	1.0-8.5		
400#	28	1,600 5.0		2.0-17.0		
600#	40	2,400	8.0-48.0	4.0-34.0		
1000#	70	4,000	10.0-80.0	5.0-55.0		

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F-Series Pressure Switches

ORDERING CODE	Example:	FPS	N7	Р	В	25	XFS	100#
Function								
FPS - Single setpoint, fixed deadband		FPS						
Enclosure								
N7 - NEMA 3, 4, 7, 9 & IP66, anodized	aluminum for hazardous	locations N7						
Switch Elements, UL/CSA Listed				-				
P- Hermetically sealed, narrow deadba	and - 5A, - 125/250 Vac			Р				
J - Hermetically sealed, general purpo	se - 11A, - 125/250 Vac,	5A, 30Vdc						
L - Hermetically sealed, gold contacts	, 1A - 125 Vac							
JJ - Dual hermetically sealed, general	purpose, 11A, 125/250 V	/ac, 5A, 30 Vdc						
LL - Dual hermetically sealed, gold cor	ntacts, 1A - 125 Vac							
Actuator Seal								
	Ter	mperature Limits						
Material	Ambient	F	rocess					
B - Buna-N®	-20°F to 150°F	0°F	to 150°F		В			
V - Viton®	-20°F to 150°F	20°l	to 200°F					
T - Teflon®	-20°F to 150°F	0°F	to 150°F					
R - SS diaphagm/Viton® O-ring	-20°F to 150°F	0°F	to 150°F					
S - 316L Stainless steel	-20°F to 150°F	20°I	to 200°F					
H - SS piston/Viton® O-ring	-20°F to 150°F	20°I	to 200°F					
Process Connections								
25 - 1/4 NPT Female						25		
07- ½ NPT Female								
20 - ⁷ / ₁₆ -20 SAE, Female								
Options (if choosing an option(s) mu	ıst include an "X")						X	_
FP - Fungus proofing								
FS - Factory adjusted setpoint							FS	
K3 - Terminal blocks								
LE - 6ft wire leads								
NH - Stainless steel tag								
6B - Clean for oxygen service								
C4 - Calibration Cert								
Pressure Range (select from pressu	re range table on page	2)						
100# - 100 psi								100#

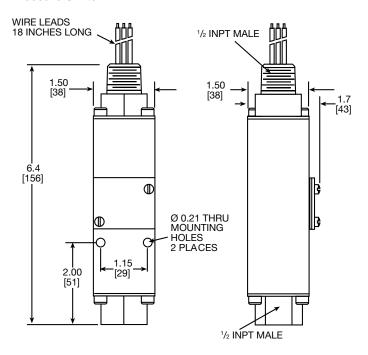


F-Series Pressure Switches

DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Pressure Switch



Pressure Switch with XK3

