

Series 112P8 Flanged Pressure Switch/Diaphragm Sensor

Flanged pressure switch for installations that formerly required a chemical seal with fill fluids. Reliable Nega-Rate® Belleville disc spring sensing mechanism. Redundant seals with venting between seals for alarm or indication. 316 stainless steel body and hermetically sealed, explosion-proof electrical assembly well suited for hazardous or corrosive atmospheres.

Operating Pressure Data									
Adjustable Range Number	Adjustable Set Point Range		Deadband	Maximum Recommended System Pressure*		Proof Pressure 150# Flange 300# Flange			
	Increasing	Decreasing	(approximate)	150# Flange	300# Flange	Steel	Stainless	Steel	Stainless
2	3 to 30	1.5 to 28.5	2	210	555	375	425	950	1100
4	20 to 80	15 to 75	5	210	555	375	425	950	1100
5	80 to 180	60 to 160	20	210	555	375	425	950	1100
6	140 to 240	115 to 225	25	210	555	375	425	950	1100
7	225 to 325	190 to 290	35	_	555	_	_	950	1100

All values given in psig.

*System pressure ratings are based on flanges of the lowest strength steel and 316 stainless at 250°F. Consult ANSI B 16.5 for increased ratings at lower temperatures.

Standard Specifications

Electrical

Snap action electrical switch Shap action electrical switch assemblies, Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC), are listed by Underwriters' Laboratories, Inc., CSA International and NCC (INMETRO). See the miscellaneous option N for additional listings.

Electrical Connection

1/2 NPT male conduit connection with PVC insulated 18 AWG, 18" long leads

Pressure Connection

1 inch, 1/16 raised face flange per ANSI B 16.5 - 1998 Class 150 (150#) Class 300 (300#)

Note: Customer responsible for gasket selection and installation. (Refer to Installation and Operating Instructions supplied with switch)

Temperature Range*

Ambient: -40°F to +180°F

(-40°C to +82°C)

-40°F to +250°F Media: (-40°C to +121°C)

*Limited by gasket material selected

Adjustment

Internal, slotted adjustment with range scale

Shipping Weight

Approximately 4.5 pounds



Ordering Sequence -Select desired option for each category

OPTIONS

Adjustable Range

1.5 psig dec. to 30 psig inc. (0.1 bar dec. to 2.1 bar inc.) 15 psig dec. to 80 psig inc. 60 psig dec. to 180 psig inc. (1.0 bar dec. to 5.5 bar inc.) (4.1 bar dec. to 12.4 bar inc.) 115 psig dec. to 240 psig inc. (7.9 bar dec. to 16.5 bar inc.) 190 psig dec. to 325 psig inc. (13.1 bar dec. to 22.4 bar inc.) (300# Flange only)

Electrical Form

11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; 5 amp resistive at 125 VDC

11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; 5 amp resistive at 125 VDC

Enclosure

Includes an explosion proof, hermetically-sealed electrical assembly. EX d IIC. Division 1 and 2, Class I, Groups A, B, C, and D; Class II, Groups E, F, and G.

NEMA 4X, 7, and 9; IP66. Leads are factory sealed and Pressure Switches are Dual Seal Certified.

Epoxy paint exterior — extra protection for severe environments 3/4 NPT conduit box with terminal strip (Groups C & D only, not available with N option)

Gold electrical contacts for extremely low current applications

ATEX Approval

72" Electrical free leads

M20 x 1.5 Electrical Conduit Adapter

Flange Size/Material

150# Steel

300# Steel

150# Stainless Steel

300# Stainless Steel

Diaphragm

316 Stainless Steel

6 Tantalum

Hastelloy C

9 Inconel

Internal O-Rings

Kalrez 3

Viton

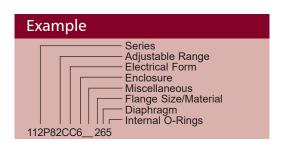
5 **FPR** Buna-N

Special (Consult representative or factory)

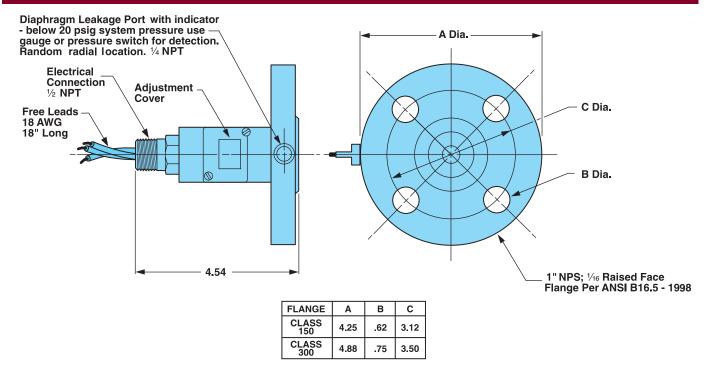
Non-catalog adjustable range and/or set point and deadband

Ordering Procedure

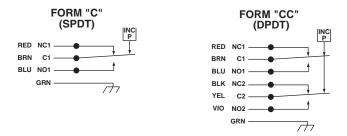
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required



Envelope Dimensions



Electrical Form



Basic Principles of Design

