

Neo-Dyn[®] 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	Adjustable Set Point Range		Deadband		ecommended Pressure*	Proof Pressure 150# Flange 300# Flange								
Number	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.

Standard Specifications

Snap action electrical switch assembly listed by Underwriters' Laboratories, Inc., Factory Mutual and CSA International

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 $(-40^{\circ}C \text{ to } + 82^{\circ}C)$ Media: -40°F to +250°F $(-40^{\circ}\text{C to} + 121^{\circ}\text{C})$

*Limited by gasket material selected

Adjustment

Internal, slotted adjustment with range

Shipping Weight

Approximately 4.5 pounds



Ordering Sequence — Select desired option for each category

OPTIONS

Adjustable Range

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2	1.5 psig dec.	to	30 psig inc.	(0.1 bar dec.	to	2.1 bar inc.)	
4	15 psig dec.	to	80 psig inc.	(1.0 bar dec.	to	5.5 bar inc.)	
5	60 psig dec.	to	180 psig inc.	(4.1 bar dec.	to	12.4 bar inc.)	
6	115 psig dec.	to	240 psig inc.	(7.9 bar dec.	to	16.5 bar inc.)	
7	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

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Enclosure

Explosion proof, hermetically-sealed electrical assembly, EX d IIC.

Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC).

Agency listings include Underwriters Laboratories, Inc., CSA International, Factory Mutual, and Inmetro. 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.

Miscellaneous

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 M

72" Electrical free leads

Flange Size/Material

150# Steel

300# Steel

150# Stainless Steel

300# Stainless Steel

Diaphragm 4 316 Stainless Steel

Tantalum

Hastelloy C

Inconel

Internal O-Rings

Kalrez Viton

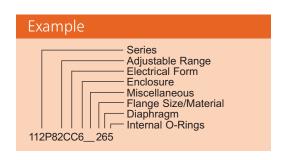
EPR

Special (Consult representative or factory)

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

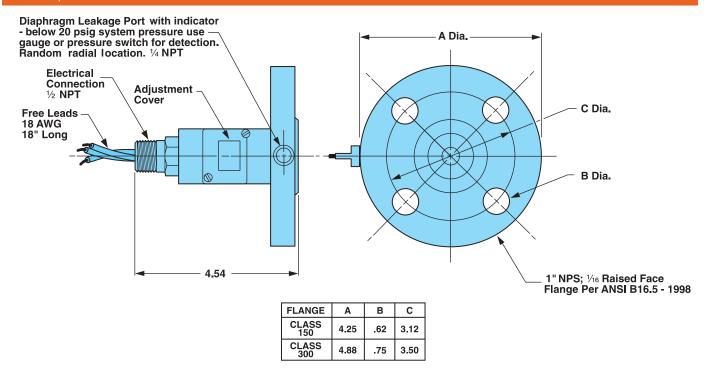
Ordering Procedure

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

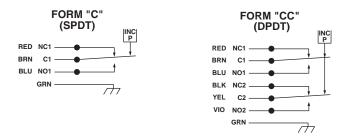


^{*}System pressure ratings are based on flanges of the lowest strength steel and 316 stainless at 250°F. Consult ANSI B 16.5 for increased ratings at lower temperatures.

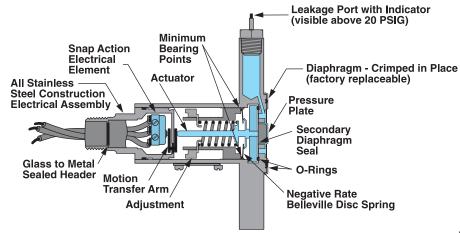
Envelope Dimensions



Electrical Form



Basic Principles of Design



Specifications and dimensions subject to change.

