

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	Maximum Recommended System 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.

*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 assemblies, Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC), are listed by Underwriters' Laboratories, Inc., FM Approvals, 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 $+180^{\circ}$ F
Media:	(-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

Explosion Proof Hermetically Sealed (NEMA 4X, 7, 9 and 13)

Ordering Sequence — Select desired option for each category

OPTIONS Adjustable Range

4

5

6

- 1.5 psig dec. to 30 psig inc. 15 psig dec. to 80 psig inc. 2
 - (0.1 bar dec. to 2.1 bar inc.) (1.0 bar dec. to 5.5 bar inc.
 - 60 psig dec. to 180 psig 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.) (13.1 bar dec. to 22.4 bar inc.) (300# Flange only) 190 psig dec. to 325 psig inc.

Electrical Form

- 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; С 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; CC 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. Miscellaneous
- Α
- 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)
- M Gold electrical contacts for extremely low current applications
- Ν ATEX Approval
- R 72" Electrical free leads

Flange Size/Material

- 150# Steel 1
- 300# Steel 2
- 3 150# Stainless Steel
- 4 300# Stainless Steel

Diaphragm

- 316 Stainless Steel 4
- 6 Tantalum
- Hastelloy C 7

9 Inconel

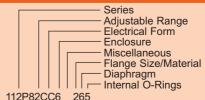
Internal O-Rings

- Kalrez Viton
- 23
- FPR 5
- 8 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

Example

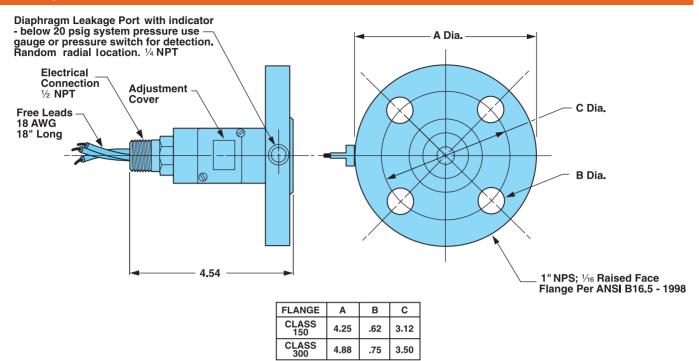


Southgate Process Equipment / Ph: (770) 345-0010 / Email: sales@southgatepe.com

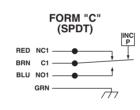
Field Adjustable 1.5 to 325 psig

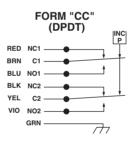
Series 112P

Envelope Dimensions

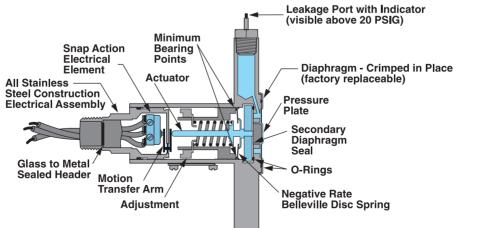


Electrical Form





Basic Principles of Design



Specifications and dimensions subject to change.

AER0935_14 6/12



Southgate Process Equipment, Inc.

87 Hickory Springs Industrial Drive Canton, GA 30115 Ph: (770) 345-0010 Email: sales@southgatepe.com Website: www.southgatepe.com