# Neo-Dyn® Series 100P Pressure Switch/Internal Adjustment



#### **DESCRIPTION**

Versatile Nega-Rate® Belleville disc spring pressure switch for a wide range of applications. Series 100P (diaphragm sensor) for pneumatic and low impulse hydraulics up to 3000 psig system pressure.

Operating Pressure Data					
Adjustable Range Number	Adjustable Set Point Range		Deadband	Maximum Recommended	Proof
	Increasing	Decreasing	(approximate)	System Pressure	Pressure
1	5 to 75	2.3 to 72.3	2.7	600	1000
2	15 to 150	9 to 144	6	3000	5000
4	50 to 300	36 to 286	14	3000	5000
5	125 to 600	100 to 575	25	3000	5000
7	500 to 1500	440 to 1440	60	3000	5000
8	800 to 2800	675 to 2675	125	3000	5000

All values given in psig.

## Standard Specifications

#### **Electrical**

Snap action electrical switch recognized by Underwriters' Laboratories, Inc. and CSA International

#### **Electrical Connection**

1/2 NPT female conduit connection with terminal block

#### **Pressure Connection**

Wetted Material 1 1/4 NPT Female

Wetted Material 4, 5, 7 and 9 1/2 NPT Female

### **Temperature Range**

Ambient: -40°F to +180°F

(-40°C to +82°C)

Media: -40°F to +300°F

 $(-40^{\circ}\text{C to} + 149^{\circ}\text{C})$ 

Media temperature limits change with O-Ring selection

#### Adjustment

Concealed wrench flat adjustment with range scale

#### **Shipping Weight**

Approximately 3 pounds

## Ordering Sequence — Select desired option for each category

#### **OPTIONS**

### **Wetted Material**

Aluminum port, Teflon coated polyimide diaphragm and Buna-N O-Ring

316 stainless steel port, Teflon coated polyimide diaphragm and Buna-N O-Ring

316 stainless steel port and diaphragm heliarc welded

Hastelloy C port and diaphragm, heliarc welded (Except Range 1)

Monel port and inconel diaphragm heliarc welded (Except Range 1)

## Adjustable Range

2.3 psig dec. to 9 psig dec. to 36 psig dec. to 75 psig inc. 150 psig inc. (0.2 bar dec. to 5.2 bar inc.) (0.6 bar dec. to 10.3 bar inc.) 300 psig inc. (2.5 bar dec. to 20.7 bar inc.) 100 psig dec. to 600 psig inc. 440 psig dec. to 1500 psig inc. (6.9 bar dec. to 41.4 bar inc.) (30.3 bar dec. to 103.4 bar inc.) 675 psig dec. to 2800 psig inc. (46.5 bar dec. to 193.1 bar inc.)

### **Electrical Form**

15 amp at 125 or 250 VAC; 1/8 hp at 125 VAC; 1/4 hp at 250 VAC; .5 amp resistive, .04 amp inductive at 125 VDC

11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

15 amp at 125 or 250 VAC; 1/4 hp at 125 VAC; 1/2 hp at 250 VAC; 1 amp resistive, .5 amp inductive at 125 VDC

Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13

#### Miscellaneous

Epoxy paint exterior — extra protection for severe environments Viton O-Ring EPR O-Ring

7/16" - 20 SAE port (Wetted Material 1 Only)
Fire fuse — for fire-tested equipment (Wetted Material 4 & 5 only)

Annealed stainless steel port screws for H2S environments (Wetted Materials 4 and 5 only) Consult factory for reduced system and proof pressure

Neon indicator light — 115 VAC

M Gold electrical contacts for extremely low current applications

5-Pin Brad Harrison connector (Reduce AC electrical rating to 8 amps (Not for CC3 Electrical)

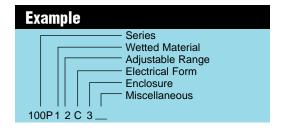
Stainless steel diaphragm (Wetted Material 4 only)
Stainless steel screws — exterior (Standard with Wetted Materials 4, 5, 7 and 9)
UL and CSA Approved and CE Mark (Not available with L or P option)

- Special (Consult representative or factory)

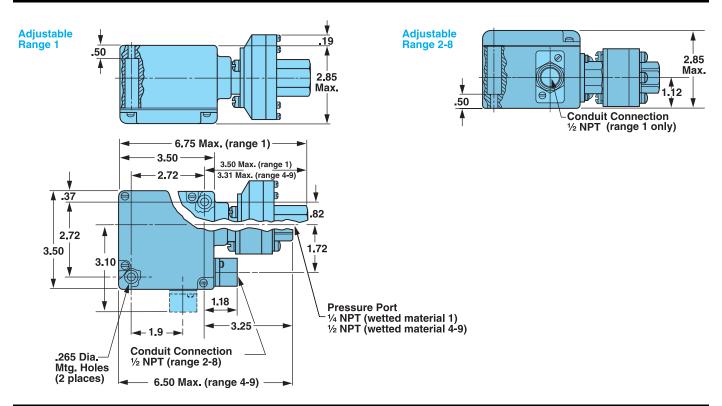
  Non-catalog adjustable range and/or set point, deadband and proof pressure
- Media temperature capability from -65°F to +400°F
- Chemical seals installed Manual reset — decreasing only (available in C3 only) 10 amps 125 VDC electrical rating

# Ordering Procedure

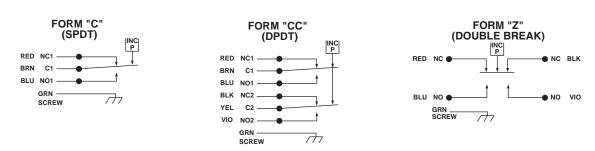
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required



# **Envelope Dimensions**



## **Electrical Form**



# **Basic Principles of Design**

