

# Neo-Dyn® Series 101P Pressure Switch/External Adjustment



**Weather Proof  
(NEMA 4 and 13)**

## DESCRIPTION

Versatile Nega-Rate® Belleville disc spring pressure switch for a wide range of applications. Series 101P (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 (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing	Decreasing			
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

½ NPT female conduit connection with terminal block

### Pressure Connection

Wetted Material 1

¼ NPT Female

Wetted Material 4

½ NPT Female

### Temperature Range\*

Ambient: -40°F to +180°F  
(-40°C to +82°C)

Media: -40°F to +300°F  
(-40°C to +149°C)

\*Temperature limits change with O-Ring selection

### Adjustment

External screwdriver slot adjustment and range scale

### Shipping Weight

Approximately 3 pounds

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

- 1 Aluminum port, Teflon coated polyimide diaphragm and Buna-N O-Ring
- 4 316 stainless steel port, Teflon coated polyimide diaphragm and Buna-N O-Ring
- 7 Hastelloy C port and diaphragm, heliarc welded

#### Adjustable Range

- 1 2.3 psig dec. to 75 psig inc. (0.2 bar dec. to 5.2 bar inc.)
- 2 9 psig dec. to 150 psig inc. (0.6 bar dec. to 10.3 bar inc.)
- 4 36 psig dec. to 300 psig inc. (2.5 bar dec. to 20.7 bar inc.)
- 5 100 psig dec. to 600 psig inc. (6.9 bar dec. to 41.4 bar inc.)
- 7 440 psig dec. to 1500 psig inc. (30.3 bar dec. to 103.4 bar inc.)
- 8 675 psig dec. to 2800 psig inc. (46.5 bar dec. to 193.1 bar inc.)

#### Electrical Form

- C 15 amp at 125 or 250 VAC; ⅛ hp at 125 VAC; ¼ hp at 250 VAC; .5 amp resistive, .04 amp inductive at 125 VDC
- Z 15 amp at 125 or 250 VAC; ¼ hp at 125 VAC; ½ hp at 250 VAC; 1 amp resistive, .5 amp inductive at 125 VDC

#### Enclosure

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

#### Miscellaneous

- A Epoxy paint exterior — extra protection for severe environments
- B Viton O-Ring
- C EPR O-Ring
- E 7/16" - 20 SAE port (Wetted Material 1 only)
- K External adjustment knob
- L Neon indicator light — 115 VAC
- M Gold electrical contacts for extremely low current applications
- P 5-Pin Brad Harrison connector (Reduce AC electrical rating to 8 amps) — (Not for CC3 Electrical)
- S Stainless steel diaphragm (Wetted Material 4 only)
- X CSA Approved and CE Mark (Not available with L or P option) (Wetted Material 4 only; Not available with Range 1)

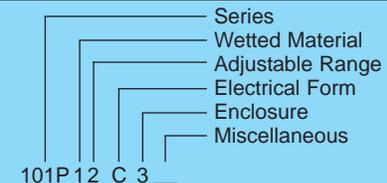
#### Special (Consult representative or factory)

- Non-catalog adjustable range and/or set point
- Operating temperature capability from -65°F to +400°F
- Wide deadband
- 10 amps 125 VDC electrical rating

## Ordering Procedure

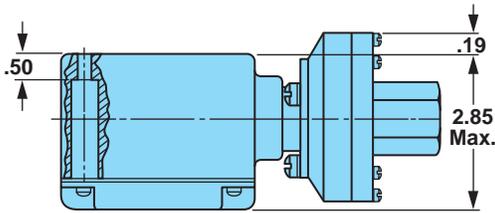
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

## Example

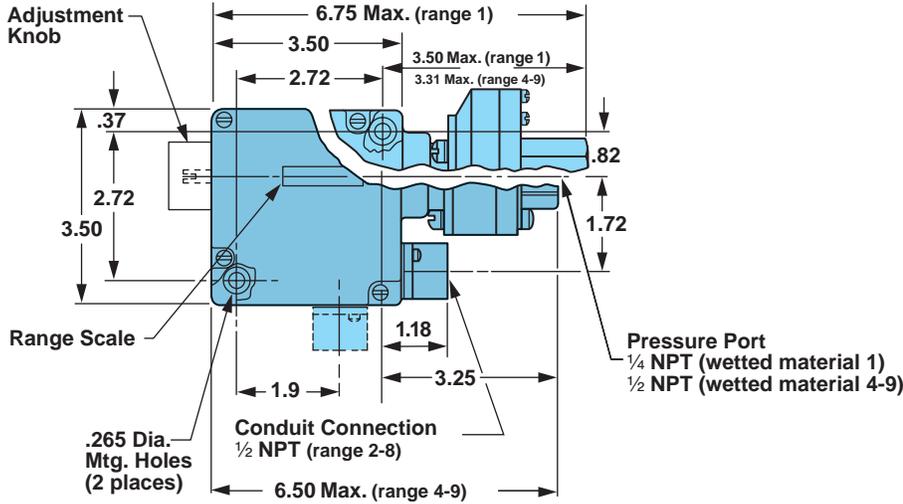
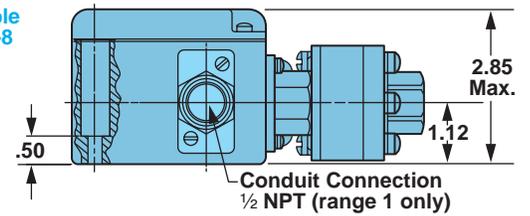


Envelope Dimensions

Adjustable  
Range 1

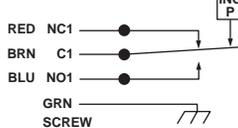


Adjustable  
Range 2-8

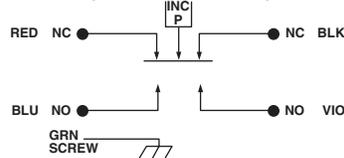


Electrical Form

FORM "C"  
(SPDT)



FORM "Z"  
(DOUBLE BREAK)



Basic Principles of Design

