

# Neo-Dyn® Series 162P Differential Pressure Switch



**Explosion Proof  
Hermetically Sealed  
(NEMA 7 and 9)**

## DESCRIPTION

Adjustable high pressure differential switch. Rugged construction with efficient Nega-Rate® Belleville disc spring sensing mechanism. Maintains set point at high system pressure. Available in all stainless steel construction with hermetically sealed electrical assembly for corrosive atmospheres.

## Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (approximate)	Maximum Recommended System Pressure	Proof Pressure		
	Increasing	Decreasing			Simultaneous	High/Low	Low/High
2	6 to 50	1 to 45	5	5000	7500	2500	2500
4	20 to 90	10 to 80	10	5000	7500	2500	2500
6	30 to 200	10 to 180	20	5000	7500	2500	2500
8	180 to 350	150 to 320	30	5000	7500	2500	2500
9	325 to 1000	225 to 900	100	5000	7500	2500	2500

All values given in psid.

## Standard Specifications

### Electrical

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

### Electrical Connection

½" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

### Pressure Connection

¼" - 18 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 ½" hex head

Note: Turn clockwise to increase set point; approximately 24 turns through range

### Shipping Weight

Approximately 3 pounds\*

\*Add 4 pounds for "H" option

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

- 1 Aluminum port, Teflon coated polyimide diaphragm, steel and Buna-N O-Ring
- 4 300 Series stainless steel, Teflon coated polyimide diaphragm and Buna-N O-Ring

#### Adjustable Range

- 2 1 psid dec. to 50 psid inc. (0.1 bar dec. to 3.4 bar inc.)
- 4 10 psid dec. to 90 psid inc. (0.7 bar dec. to 6.2 bar inc.)
- 6 10 psid dec. to 200 psid inc. (0.7 bar dec. to 13.8 bar inc.)
- 8 150 psid dec. to 350 psid inc. (10.3 bar dec. to 24.1 bar inc.)
- 9 225 psid dec. to 1000 psid inc. (15.5 bar dec. to 69.0 bar inc.)

#### Electrical Form

- C 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC
- CC 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC

#### Enclosure

- 6 Explosion proof • factory sealed • hermetically sealed electrical assembly P/N 057-0030 (C Form); P/N 057-0057 (CC Form). **Underwriters' Laboratories, Inc.** listed (file #E56677) or **Canadian Standards Association** certified (file #34146) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G hazardous locations (NEMA 7 and 9)

#### Miscellaneous

- A Epoxy paint exterior — extra protection for severe environments
- B Viton O-Ring
- C EPR O-Ring
- H Stainless steel exterior (included with Wetted Material 4)
- I ¾" Conduit box with terminal strip
- M Gold electrical contacts for extremely low current applications
- N CENELEC approval
- R 72" Electrical free leads

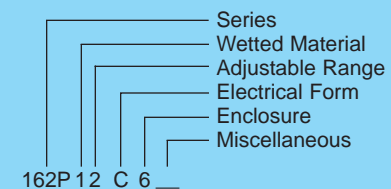
#### Special (Consult representative or factory)

- Non-catalog adjustable range and/or set point, deadband and proof pressure
- Chemical seals installed

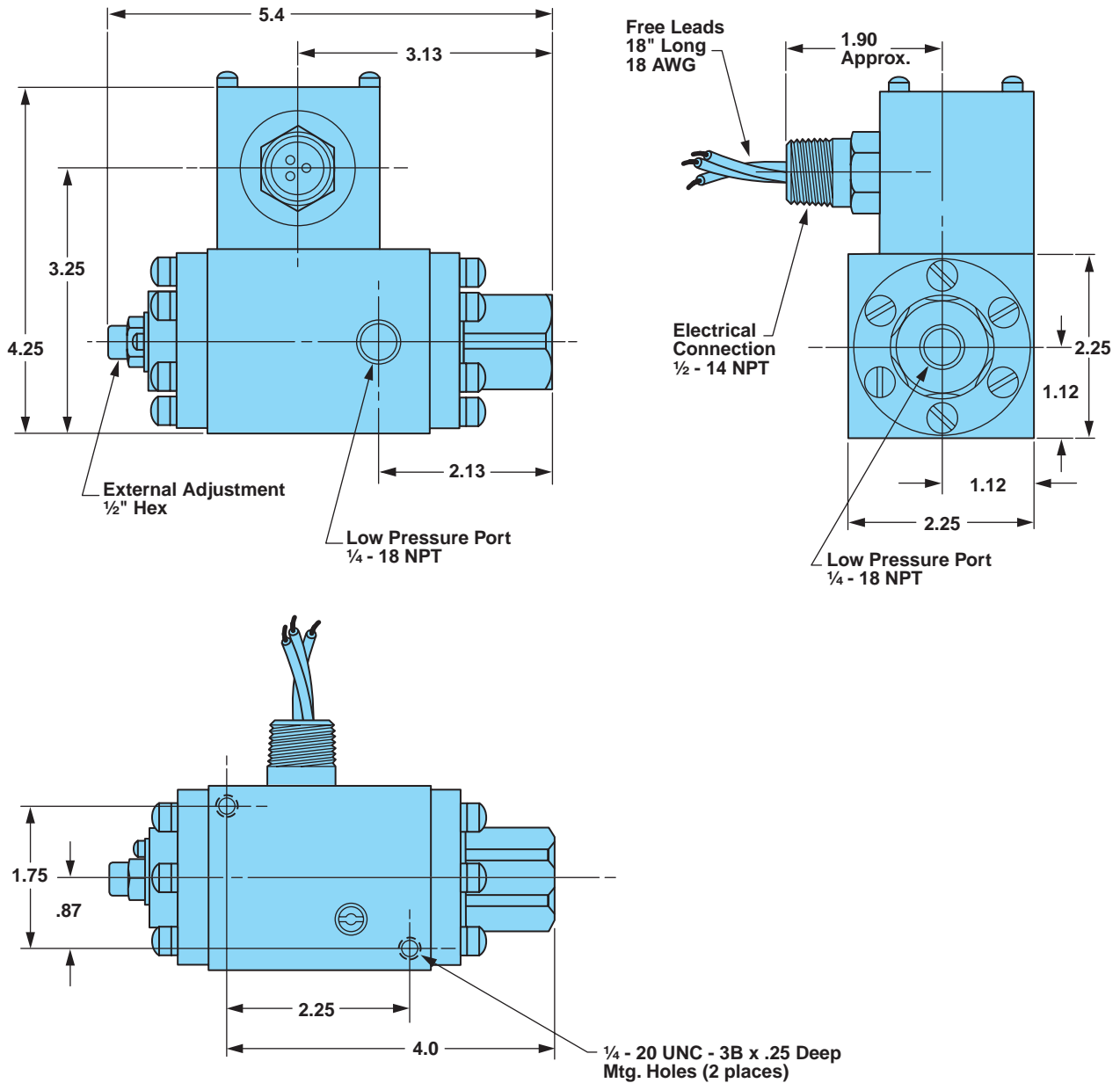
## Ordering Procedure

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

## Example



Envelope Dimensions



Electrical Form

