

# Neo-Dyn® Series 162P Differential Pressure Switch



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

### 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 assembly listed by Underwriters' Laboratories, Inc., Factory Mutual and CSA International

#### Electrical Connection

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

#### Pressure Connections

¼ 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. See Electrical Assembly specification sheet for Temperature Class Ratings.

#### Adjustment

External ½" hex head

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

#### Shipping Weight

Aluminum: Approximately 3 lbs

Stainless Steel: Approximately 7 lbs

### 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 Stainless steel ports, 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 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC
- CC 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

##### Enclosure

- 6 Explosion proof, hermetically-sealed electrical assembly, leads factory sealed, P/N 057-0770 (C Form) and P/N 057-0771 (CC Form); Underwriters' Laboratories, Inc. listed (File E56677), CSA International certified (File LR34146) and Factory Mutual approved (File J.I.1R5A9.AE) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G Hazardous Locations (NEMA Type 7 and 9).

##### Miscellaneous

- A Epoxy paint exterior — extra protection for severe environments
- B Viton O-Ring
- C EPR O-Ring
- I ¾ NPT conduit box with terminal strip (Groups C & D only)
- M Gold electrical contacts for extremely low current applications
- N ATEX approval with CE Mark
- R 72" Electrical free leads

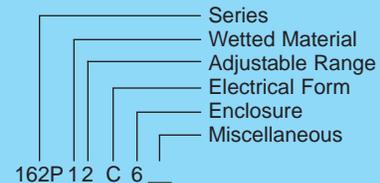
##### Special (Consult representative or factory)

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

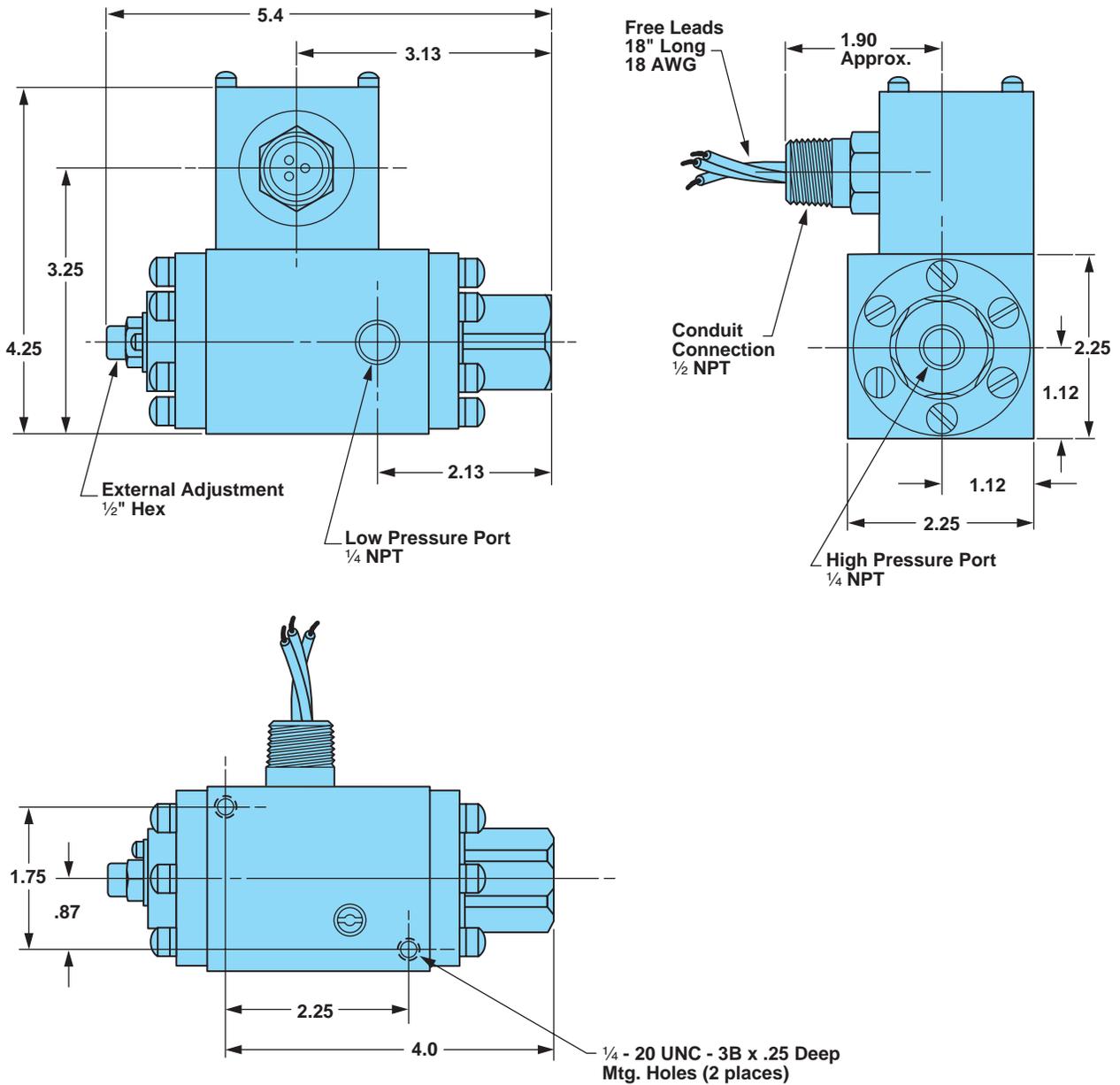
### Ordering Procedure

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

### Example



Envelope Dimensions



Electrical Form

