

# Series 180P Vacuum Pressure Switch/Internal Adjustment

Adjustable vacuum switch with efficient Nega-Rate<sup>®</sup> Belleville disc spring sensing mechanism. Weather proof enclosure and stable set points makes this switch ideal for a wide variety of applications.

Operating Pressure Data					
Adjustable Range Number	Adjustable Set Point Range		Deadband	Maximum Recommended	Proof
	Increasing Vacuum	Decreasing Vacuum	(approximate)	System Pressure	Pressure
4	3" to 28" Hg	1" to 26" Hg	2" Hg	225	350

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**

1/4 NPT Female

### Temperature Range\*

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

Media: -40°F to +250°F (-40°C to +121°C)

\*Temperature limits change with O-Ring selection

#### Adjustment

Concealed wrench flat adjustment with range scale

#### **Shipping Weight**

Approximately 3.5 pounds



Order Miscellaneous Option "D"



### Ordering Sequence — Select desired option for each category

#### **OPTIONS**

#### **Wetted Material**

- Aluminum port and body, Teflon coated polyimide diaphragm, Buna-N O-Rings and stainless steel
- Stainless steel, Teflon coated polyimide diaphragm and Buna-N O-Rings

#### Adjustable Vacuum Range

1" Hg dec. to 28" Hg inc. (0.0 bar dec. to 0.9 bar inc.)

#### **Electrical Form**

C 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
CC 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

#### **Enclosure**

Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13, IP65

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

EPR O-Ring

SIL approval and marking, per IEC61508 (includes FMEA report) Neon indicator light — 115 VAC

Gold electrical contacts for extremely low current applications

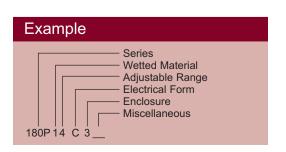
M20 x 1.5 Electrical Conduit Adapter

- Special (Consult representative or factory)

  Non-catalog adjustable range and/or set point, deadband and proof pressure
- Media temperature capability from -65°F to +350°F 10 amps 125 VDC electrical rating
- Chemical seals installed
- Optional orientation of Low Pressure Port

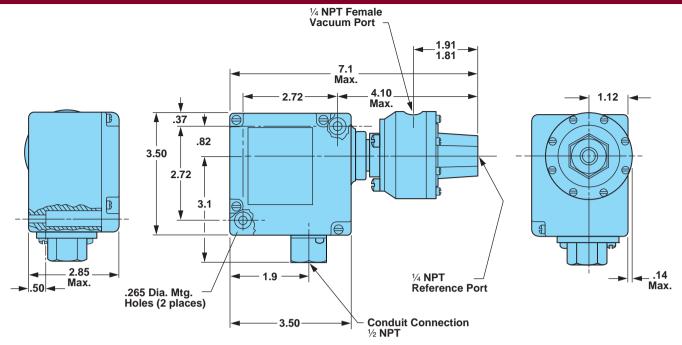
# **Ordering Procedure**

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

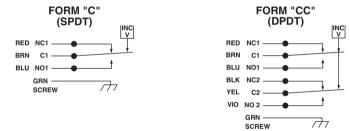


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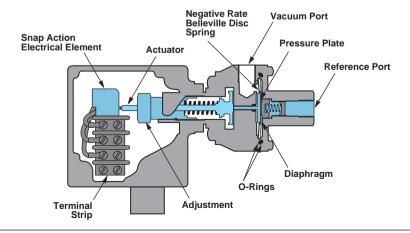
# **Envelope Dimensions**



## **Electrical Form**



## Basic Principles of Design



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