

## **DESCRIPTION**

Ultra low pressure and vacuum to pressure crossover switch. Unique construction using efficient Nega-Rate® Belleville disc spring for stable set points and high proof pressure. Explosion proof enclosure and wide range of wetted materials makes this switch especially well suited for hazardous or corrosive atmospheres.

Operating Pressure Data				
Adjustable Range Number	Adjustable Set Point Range	Deadband* (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing			
0	1" to 10" H <sub>2</sub> O	.75" H <sub>2</sub> O	30" H <sub>2</sub> O Vacuum to 30" H <sub>2</sub> O Pressure	30" H <sub>2</sub> O Vacuum to +5 psig
1	2" to 40" H <sub>2</sub> O	1" H <sub>2</sub> O	30" H <sub>2</sub> O Vacuum to +5 psig	30" H <sub>2</sub> O Vacuum to +15 psig
2	0" to 40" H <sub>2</sub> O Vacuum to 0" to 40" H <sub>2</sub> O Pressure	1" H <sub>2</sub> O	Full Vacuum to +15 psig	Full Vacuum to 100 psig

<sup>\*</sup>Deadband 50% wider with "CC" (DPDT) Electrical Forms.

# **Standard Specifications**

## **Electrical**

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

### **Electrical Connection**

1/2 NPT male conduit connection with PVC insulated 18 AWG, 18" long leads

## **Pressure Connection**

1/2 NPT Female

## **Temperature Range\***

Ambient: -40°F to +180°F

(-40°C to +82°C)

Media: -50°F to +250°F

 $(-46^{\circ}\text{C to} + 121^{\circ}\text{C})$ 

\*Temperature limits change with O-Ring selection. See Electrical Assembly specification sheet for Temperature Class Ratings.

### **Adjustment**

Concealed wrench flat adjustment with range scale

## **Shipping Weight**

Approximately 3.5 pounds

### **Ordering Sequence –** Select desired option for each category

## **OPTIONS**

## Adjustable Range

.25"  $\rm H_2O$  (.62 mbar) dec. to 10" (24.9 mbar)  $\rm H_2O$  inc. 1"  $\rm H_2O$  (2.49 mbar) dec. to 40" (99.6 mbar)  $\rm H_2O$  inc.

40"  $H_2O$  (99.6 mbar) inc. vac. to 40" (99.6 mbar)  $H_2O$  inc. pressure

### **Electrical Form**

11 amp, ½ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive 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

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

Epoxy paint exterior — extra protection for severe environments

% NPT conduit box with terminal strip (Groups C & D only)
Gold electrical contacts for extremely low current applications

ATEX approval with CE Mark

72" Electrical free leads R

## **Port Material**

316 Stainless Steel

Hastelloy C

# Diaphragm

Polyimide

316 Stainless Steel

**Tantalum** 

Hastelloy C

# **O-Rings**

Kalrez

Viton

**EPR** 

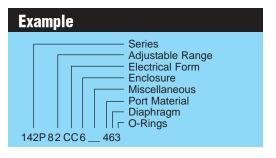
# Special (Consult representative or factory)

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

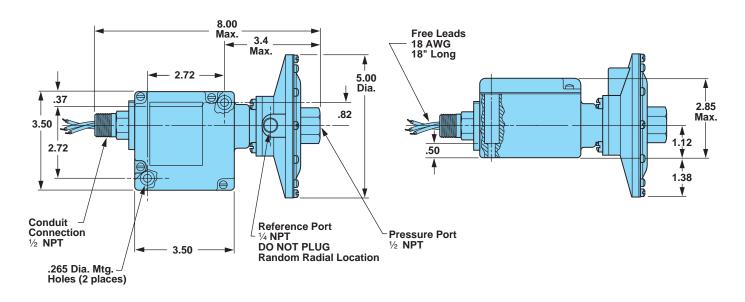
Media temperature capabilities from -65°F to +400°F

# **Ordering Procedure**

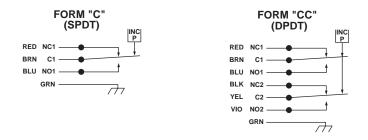
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required



# **Envelope Dimensions**



# **Electrical Form**



# **Basic Principles of Design**

