



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

DESCRIPTION

Ultra low differential pressure switch. Unique construction using 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			
2	2" to 100" H ₂ O Differential	1.5" H ₂ O	15 psig Simul. or Hi over Low 100" H ₂ O Low over Hi	100 PSI Simul. or Hi over Low 15 PSI Low over Hi

*Deadband 50% wider with "CC" (DPDT) Electrical Forms.

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

½" - 14 NPT Female — High
¼" - 18 NPT Female — Low

Temperature Range*

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

Media: -50°F to +250°F
(-46°C to +121°C)

*Temperature limits change with O-Ring selection

Adjustment

Concealed wrench flat adjustment with range scale

Shipping Weight

Approximately 4 pounds

Ordering Sequence — Select desired option for each category

OPTIONS

Adjustable Range

2 .5" H₂O dec. to 100" H₂O 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

I ¾" Conduit box with terminal strip

M Gold electrical contacts for extremely low current applications

N CENELEC approval

R 72" Electrical free leads

Port Material

1 316 Stainless Steel High/Aluminum Low

4 316 Stainless Steel High/Low

Diaphragm

1 Polyimide

4 316 Stainless Steel

6 Tantalum

7 Hastelloy C

O-Rings

2 Kalrez

3 Viton

5 EPR

8 Buna-N

Special (Consult representative or factory)

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

■ Operating temperature capabilities from -65°F to +400°F

Ordering Procedure

■ When factory presetting is desired, stipulate set point, increasing or decreasing

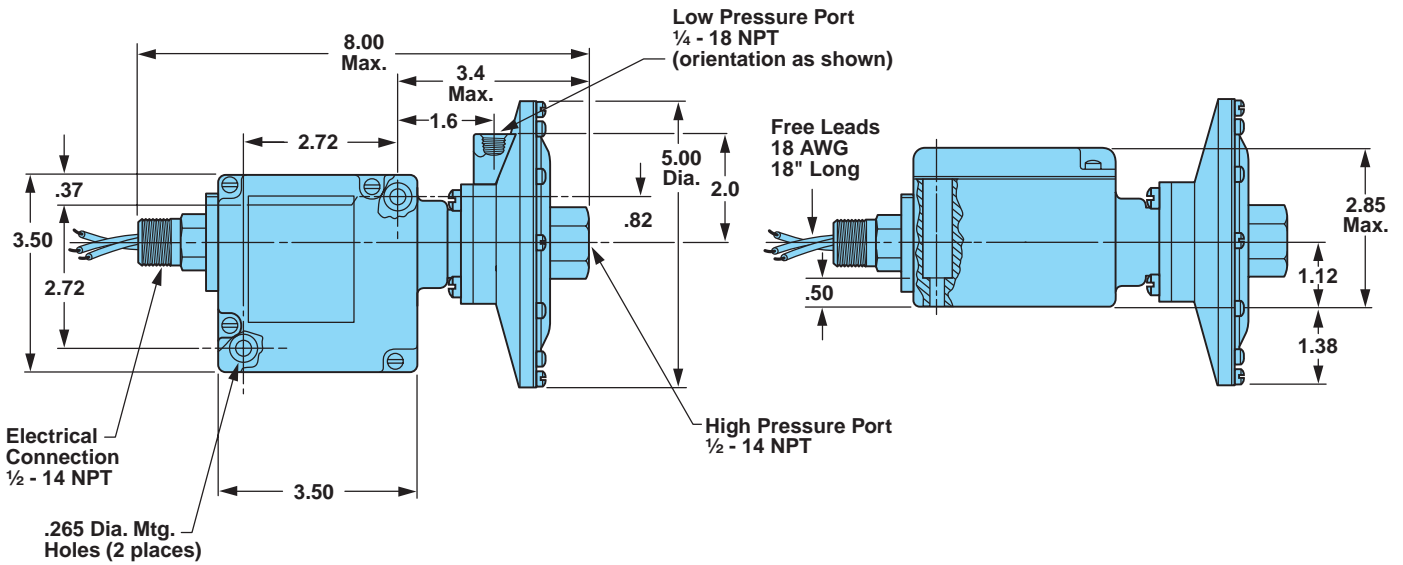
■ Insert available option number or letter designation as required

Example

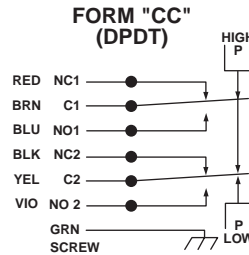
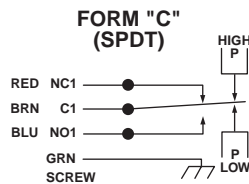
Series
Adjustable Range
Electrical Form
Enclosure
Miscellaneous
Port Material
Diaphragm
O-Rings

152P 82 CC 6 _ 463

Envelope Dimensions



Electrical Form



Basic Principles of Design

