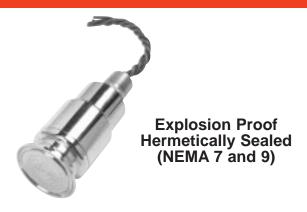
Neo-Dyn[®] Series 119P Pressure Switch/Internal Adjustment



DESCRIPTION

A field adjustable pressure switch for low- to mid-range process applications. The Series 119P, which utilizes a Tri-Clamp[®] compatible process connection, is an ideal pressure switch for bioprocess and other sanitary applications. Set point stability and vibration resistance are a function of the Nega-Rate® Belleville disc spring. This unit features 316 stainless steel construction, an explosionproof/hermetically sealed electrical module, 18" standard free leads, SPDT or DPDT electrical forms and an exterior surface polish of 9 - 11 micro inch Ra (0.23 - 0.28 micron Ra).

Operating Pressure Data							
Adjustable Range Number	Adjustable Set Point Range		Deadband	*Maximum Recommended	*Proof		
	Increasing	Decreasing	(approximate)	System Pressure	Pressure		
2	3 to 30	1 to 28	2	1000	1500		
4	20 to 80	15 to 75	5	1000	1500		
5	50 to 250	30 to 230	20	1000	1500		
6	200 to 400	175 to 375	25	1000	1500		
7	375 to 725	330 to 680	45	1000	1500		

All values given in psig.

Standard Specifications

Electrical

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

Electrical Connection

1/2" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

Pressure Connection

11/2" sanitary fitting mates with Tri-Clamp® fitting¹

Temperature Range

Ambient: -40°F to +180°F

 $(-40^{\circ}C \text{ to } +82^{\circ}C)$

Media: -40°F to +250°F

 $(-40^{\circ}C \text{ to } + 121^{\circ}C)$

Adjustment

Internal, slotted adjustment nut

Shipping Weight

Approximately 2 pounds

Ordering Sequence – Select desired option for each category

OPTIONS

Wetted Material

316 stainless steel port and diaphragm, heliarc welded

Adjustable Range

2	1 psig dec. to	30 psig inc.	(.07 bar dec. to	2.1 bar inc.)
4	15 psig dec. to	80 psig inc.	(1.0 bar dec. to	5.5 bar inc.)
5	30 psig dec. to	250 psig inc.	(2.1 bar dec. to	17.2 bar inc.)
6	175 psig dec. to	400 psig inc.	(12.1 bar dec. to	27.6 bar inc.)
7	330 psig dec. to	725 psig inc.	(22.8 bar dec. to	50.0 bar inc.)

Electrical Form

- 11 amps and 1/4 hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC
- CC 11 amps and 1/4 hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC

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

3/4" Conduit box with terminal strip

Gold electrical contacts for extremely low current applications M

CENELEC approval

72" Electrical free leads

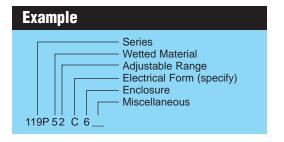
Special (Consult representative or factory)

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

†Tri-Clamp® is a Registered Trademark of Tri-Clover Inc.

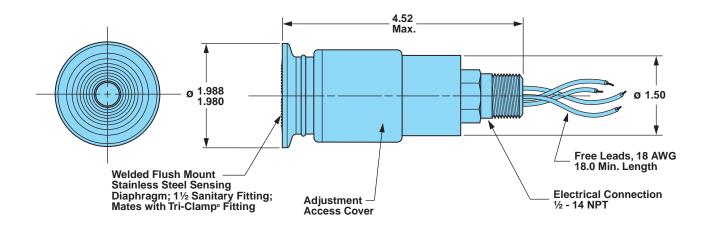
Ordering Procedure

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

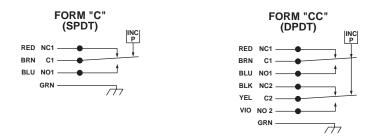


^{*}Note: Pressures are switch ratings. Check clamp manufacturer for clamp rating.

Envelope Dimensions



Electrical Form



Basic Principles of Design

