

Series 100P Pressure Switch / Internal Adjustment

Versatile Nega-Rate[®] Belleville disc spring pressure switch for a wide range of applications. Series 100P (diaphragm sensor) for pneumatic and low impulse hydraulics up to 3000 psig system pressure.

| Operating Pressure Data | | | | | |
|-------------------------|----------------------------|-------------|---------------|---------------------|----------|
| Adjustable Range | Adjustable Set Point Range | | Deadband | Maximum Recommended | Proof |
| Number | Increasing | Decreasing | (approximate) | System Pressure | Pressure |
| 1 | 5 to 75 | 2.3 to 72.3 | 2.7 | 600 | 1000 |
| 2 | 15 to 150 | 9 to 144 | 6 | 3000 | 5000 |
| 4 | 50 to 300 | 36 to 286 | 14 | 3000 | 5000 |
| 5 | 125 to 600 | 100 to 575 | 25 | 3000 | 5000 |
| 7 | 500 to 1500 | 440 to 1440 | 60 | 3000 | 5000 |
| 8 | 800 to 2800 | 675 to 2675 | 125 | 3000 | 5000 |

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

Wetted Material 1 1/4 NPT Female

Wetted Material 4, 5, 7 and 9 1/2 NPT Female

Temperature Range

Ambient: -40°F to +180°F (-40°C to +82°C) -40°F to +300°F Media: (-40°C to +149°C)

Media temperature limits change with O-Ring selection

Adjustment

Concealed wrench flat adjustment with range scale

Shipping Weight

Approximately 3 pounds



Order Miscellaneous Option "D'



Ordering Sequence — Select desired option for each category

OPTIONS

2

4

5 7

8

Wetted Material

- Aluminum port, Teflon coated polyimide diaphragm and Buna-N O-Ring
- 316 stainless steel port, Teflon coated polyimide diaphragm and Buna-N O-Ring 316 stainless steel port and diaphragm heliarc welded 4
- 5 7 Hastelloy C port and diaphragm, heliarc welded (Except Range 1) Monel port and inconel diaphragm heliarc welded (Except Range 1) ġ

Adjustable Range

- 2.3 psig dec. to 75 psig inc. (0.2 bar dec. to 9 psig dec. to (0.6 bar dec. to)150 psig inc.
- 10.3 bar inc. 36 psig dec. to 300 psig inc. (2.5 bar dec. to 20.7 bar inc. 6.9 bar dec. to 41.4 bar inc.
- 100 psig dec. to 600 psig inc. 440 psig dec. to 1500 psig inc. (30.3 bar dec. to 103.4 bar inc.)
- 675 psig dec. to 2800 psig inc. (46.5 bar dec. to 193.1 bar inc.)

Electrical Form

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 С

5.2 bar inc.)

- 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; СС .5 amp resistive at 125 VDC
- 15 amp at 125 or 250 VAC; 1/4 hp at 125 VAC; 1/2 hp at 250 VAC; 1 amp resistive, 7 .5 amp inductive at 125 VDC

Enclosure

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

 - Epoxy paint exterior extra protection for severe environments
- В Viton O-Ring С EPR O-Ring
- 7/16" 20 SAE port (Wetted Material 1 Only) Ď
- Ε
- F Fire fuse -- for fire-tested equipment (Wetted Material 4 & 5 only)
- Ĵ Annealed stainless steel port screws for H2S environments (Wetted Materials 4 and 5 only) Consult factory for reduced system and proof pressure Neon indicator light — 115 VAC
- Gold electrical contacts for extremely low current applications (Not with Z Form)
- 5-Pin Brad Harrison connector (Reduce AC electrical rating to 8 amps (Not for CC3 Electrical) Stainless steel diaphragm (Wetted Material 4 only) M20 x 1.5 Electrical Conduit Adapter P S U
- Stainless steel screws exterior (Standard with Wetted Materials 4, 5, 7 and 9)
- Ŵ X Y
- UL and CSA Approved and CE Mark (Not available with L or P option) 2" NPT Female port for viscous medias. Port Material is carbon steel (Wetted Material "3") (Not available in range code "1") Order as 100P3xxxxY

Special (Consult representative or factory)

- Non-catalog adjustable range and/or set point, deadband and proof pressure Media temperature capability from -65°F to +400°F
- Chemical seals installed
- Manual reset decreasing only (available in C3 only)

Ordering Procedure

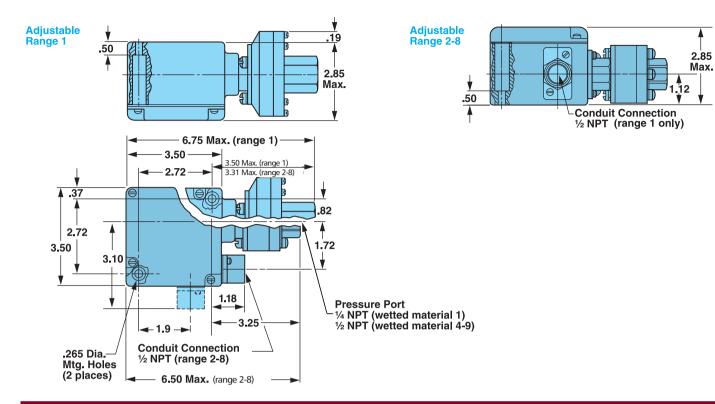
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example Series Wetted Material Adjustable Range **Electrical Form** Enclosure Miscellaneous 100P12C3

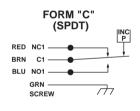
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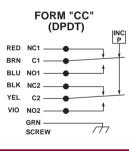
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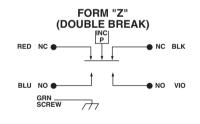
Envelope Dimensions



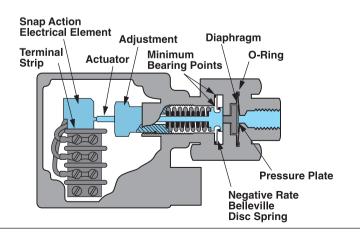
Electrical Form







Basic Principles of Design



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