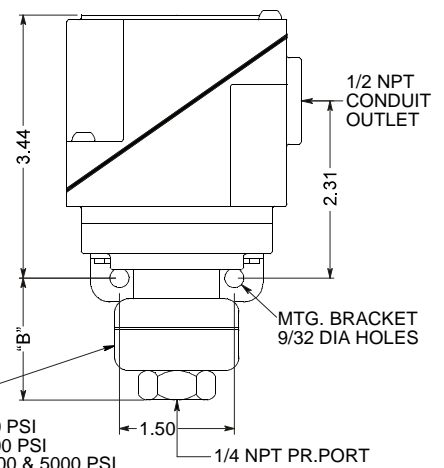
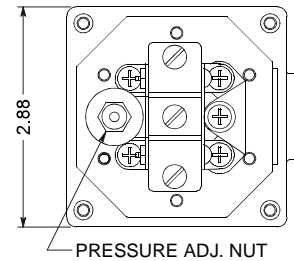
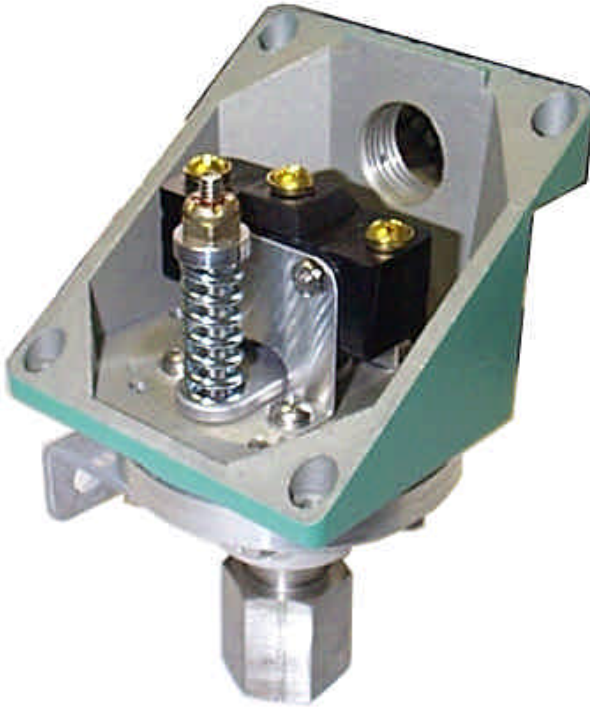




- Ranges from 10 to 3000 PSI
- Rugged NEMA 4X, 12 & 13 Housing
- One or Two SPDT Contacts
- Stainless Steel Sensing Element

MODEL SERIES 2PSB Pressure Switch Bellows Sensing Element



BELLOWS ASSEMBLY
 B= 1 5/8" MAX. PRESSURE 300 PSI
 B= 1 7/8" MAX. PRESSURE 1500 PSI
 B= 1 9/16" MAX PRESSURE 2500 & 5000 PSI

GENERAL DESCRIPTION

The 2PSB employs Solon's unique, rugged, and sensitive switching mechanism. Unlike most "inline" pressure switch designs, the Solon mechanism is frictionless and amplifies the movement of the sensing element. This results in improved life, repeatability, and lower deadbands. The 2PSB mechanism can be supplied with one S.P.D.T. electric switch or two S.P.D.T. electric switches that are independently adjustable. The 2PSB is available as a basic unit with no housing, or enclosed in a rugged die cast NEMA 4X, 12 and 13 housing. With the cover of the enclosure removed, the terminals of the electric switch/s, and the pressure adjustment/s are exposed for easy wiring and adjustment of the pressure setting. The die cast cover is equipped with captive stainless steel screws that retain the cover gasket when the cover is removed. The bellows pressure-sensing elements are constructed from stainless steel and are sized for a wide variety of pressure ranges. Other useful options can easily be specified with this model. See the Special Features section on page 2 for these options.

SPECIFICATIONS

PHYSICAL DATA (Standard) -see page 2 for special features

- Maximum Ambient Temperature:** 180°F
- Minimum Ambient Temperature:** -40°F
- Pressure Connection:** ¼ NPT
- Electrical Connection:** 1/2 NPT
- Housing:** Diecast Aluminum
- Deadband:** Fixed
- Sensitivity:** 1/2% of range (for SPDT)
- Drift:** <1% of range (100,000 operations)
- Weight:** Approx. 1.8 lbs.
- Contact Ratings:** 15A - 125, 250, 480 VAC
- Port Material:** Stainless Steel
- Bellows Material:** Stainless Steel
- Set Point Adjustment:** Screw type, field adjustable
- No. Contacts:** One or Two S.P.D.T.
- Contact Listings:** UL Recognized, CSA Certified

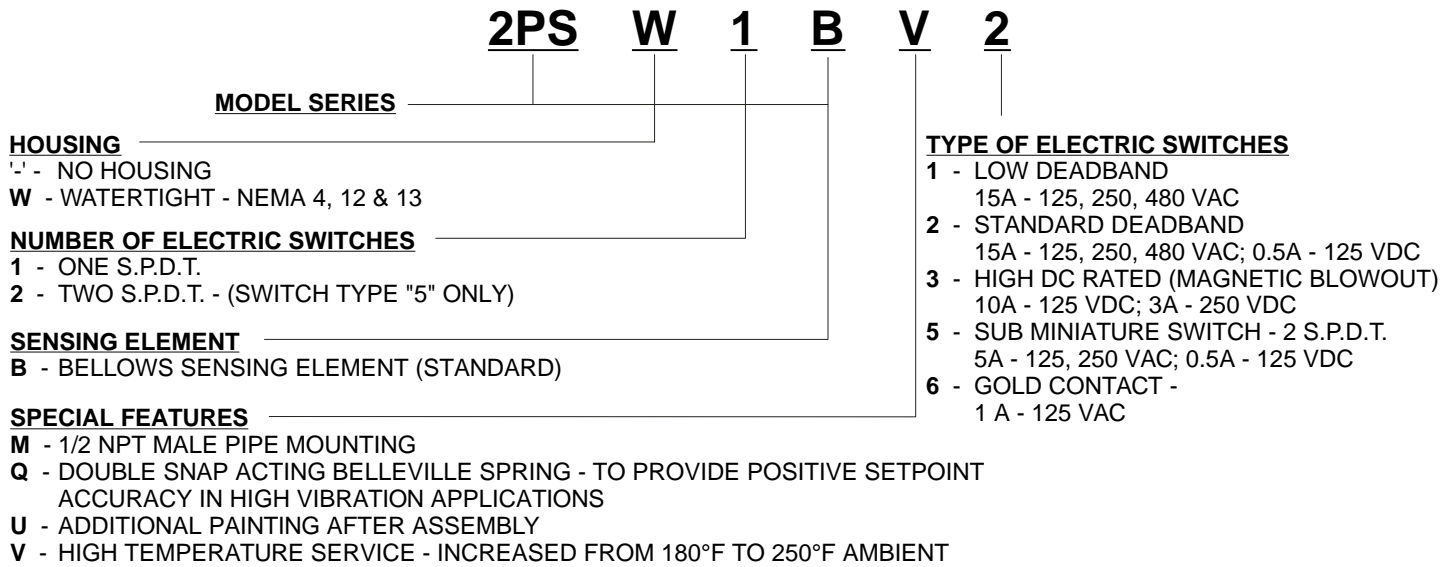
Solon Manufacturing Company

425 Center Street, P.O. Box 207, Chardon, Ohio 44024
 (440) 286-7149 800-323-9717 FAX (440) 286-9047
www.solonmfg.com

ORDERING A SWITCH

MODEL SERIES 2PSB Pressure Switch Bellows Sensing Element

1. SPECIFY A MODEL NUMBER



2. SPECIFY A RANGE

ADJUSTABLE PRESSURE RANGE	MAXIMUM DEADBAND		MAXIMUM PRESSURE	
	TYPE "2"	TYPE "5"	TYPE "2"	TYPE "5"
0-10 PSI	.80 PSI	1.5 PSI	300 PSI	300 PSI
0-20 PSI	.90 PSI	2.3 PSI	300 PSI	300 PSI
0-50 PSI	1.0 PSI	5.2 PSI	300 PSI	300 PSI
0-100 PSI	1.5 PSI	13 PSI	300 PSI	1500 PSI
0-250 PSI	6 PSI	27 PSI	1500 PSI	1500 PSI
0-500 PSI	8 PSI	58 PSI	1500 PSI	2500 PSI
0-750 PSI	16 PSI	77 PSI	2500 PSI	2500 PSI
0-1000 PSI	19 PSI	183 PSI	2500 PSI	5000 PSI
0-2000 PSI	60 PSI	240 PSI	5000 PSI	5000 PSI
0-3000 PSI	66 PSI	N/A	5000 PSI	N/A

DEADBAND NOTES

The deadbands listed in the tables are the maximum switch differentials when the standard (Type "2" or Type "5") electric switch is used.

Deadband is affected by the type of electric switch used. Each type of electric switch's effect on deadband is as follows:

Type "1" - Low Deadband - Use ½ TYPE 2 table values.

Type "2" - Std. Deadband - Use table values.

Type "3" - High DC Rated - Multiply TYPE 2 table values by two.

Type "5" - Sub Miniature - 2 S.P.D.T. - Use TYPE 5 table values.

Type "6" - Gold Contact - Use TYPE 2 table values.

INSTALLATION NOTES

Orientation - The 2PSB will operate satisfactorily in any position, however, mounting the device vertically will allow the easiest adjustability and reduce sediment in the pressure chamber.

Wiring - Switches may be wired to 'normally open' or 'normally closed' terminals on electric switch(es). Single switch units have screw terminals while dual switch versions use a screw terminal block.

Pressure Connection - 1/4 NPT female is standard. 1/2 NPT male is available ("M" option).

Adjustment - Turn pressure adjustment nut(s) clockwise to increase setpoint. Detailed installation & calibration instructions are provided for every shipment. Factory setting is available at no charge.

Wiring Schematic

