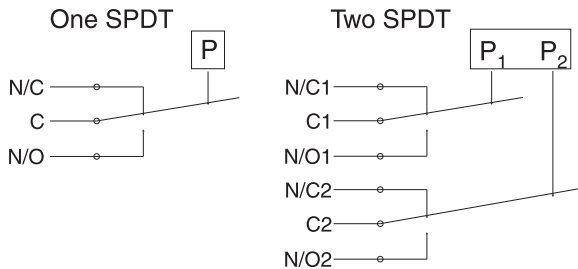




Diaphragm Actuated: 2 to 300 PSI
Bellows Actuated: 10 to 3000 PSI

Wiring Schematic



Installation Notes

Orientation - The 2WPS Diaphragm Actuated 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 terminal block.

Pressure Connection - 1/4" NPT female is standard. 1/2" NPT male is available.

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

Description & Features:

- Can be supplied with 1 SPDT electric switch or 2 SPDT electric switches that are independently adjusted
- Can be supplied 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(es) and pressure adjustment(s) are exposed for easy wiring and adjustment of the pressure setting
- Field adjustable set points
- Diecast cover is equipped with captive stainless steel screws that retain the cover gasket when the cover is removed. A useful feature of the single switch enclosed model is a calibrated pressure adjustment that aligns with a numerical pressure indicating scale showing the set point range
- 1 year warranty

Applications:

- Common applications include: tank and compressor level and precision control, hydraulic systems, pumping controls and hazardous area lift station controls

Specifications	
Housing	Diecast aluminum
Pressure Connection	1/4" NPT female standard 1/2" NPT male available
Electrical Connection	1/2" NPT male
Port Material	Diaphragm Actuated: Brass Bellow Actuated: SS with silver braze
Diaphragm Material	Buna N, Teflon® protected, Viton®
Deadband	Fixed
Sensitivity	0.5% of range (for SPDT)
Drift	<1% of range (100,000 operations)
Contact Ratings	15A - 125, 250, 480 VAC
Set Point Adjustment	Screw type, field adjustable
No. of Contacts	One or Two SPDT
Contact Listings	UL Recognized, CSA Certified
Maximum Ambient Temperature	Diaphragm Actuated: 180°F (82°C) Bellows Actuated: 180°F (82°C)
Minimum Ambient Temperature	Diaphragm Actuated: -20°F (-29°C) Bellows Actuated: -40°F (-40°C)
Weight	1.5 to 1.8 lbs

Teflon® is a registered trademark of Dupont Corporation
 Viton® is a registered trademark of DuPont Performance Elastomers

Diaphragm Actuated

Adjustable Pressure Range		Maximum Deadband				Maximum Working Pressure	
		Type 2		Type 5			
psi	MPa	psi	kPa	psi	kPa	psi	MPa
0-2	0-0.01	0.25	1.72	0.23	1.59	20	0.14
0-5	0-0.05	0.27	1.86	0.50	3.45	20	0.14
0-10	0-0.07	0.34	2.34	0.90	6.21	50	0.35
0-20	0-0.14	0.50	3.45	1.9	13.1	50	0.35
0-50	0-0.35	1.6	11.03	6.0	41.35	250	1.72
0-100	0-7.0	1.9	13.1	8.3	57.23	250	1.72
0-200	0-1.38	4.4	30.34	16.0	110.3	500	3.45
0-300	0-2.07	5.3	36.54	22.0	151.7	500	3.45

Deadband Notes

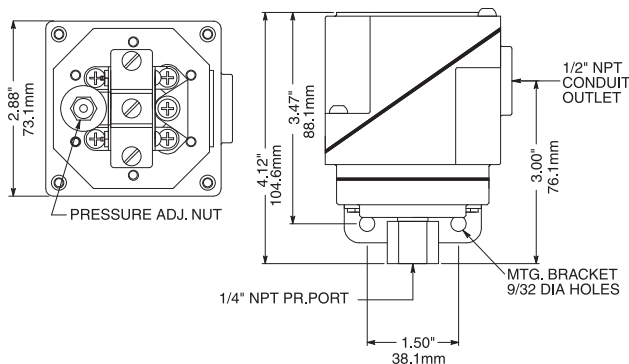
The deadbands listed in the tables are the maximum switch differentials when the standard electric switch is used. Deadband is affected by the type of switch used. Each type of switch's effect on deadband is as follows:

- Type 1** Low Deadband - Use 1/2 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 SPDT - Use Type 5 table values
- Type 6** Gold Contact - Use Type 2 table values

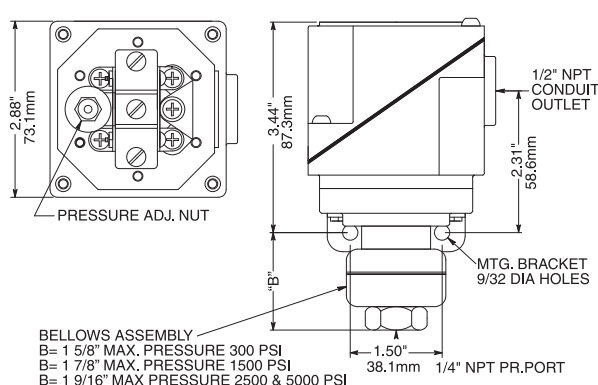
Bellows Actuated

Adjustable Pressure Range		Maximum Deadband				Maximum Working Pressure			
		Type 2		Type 5		Type 2		Type 5	
psi	MPa	psi	kPa	psi	kPa	psi	MPa	psi	MPa
0-10	0-0.69	0.80	5.52	1.5	10.34	300	2.069	300	2.069
0-20	0-0.138	0.90	6.21	2.3	15.86	300	2.069	300	2.069
0-50	0-0.345	1.0	7.00	5.2	35.85	300	2.069	300	2.069
0-100	0-0.69	1.5	10.34	13	89.63	300	2.069	1500	10.35
0-250	0-1.724	6	41.37	27	186.2	1500	10.35	1500	10.35
0-500	0-3.448	8	55.16	58	400.0	1500	10.35	2500	17.24
0-750	0-5.172	16	110.3	77	530.9	2500	17.24	2500	17.24
0-1,000	0-6.897	19	131.0	183	1261.7	2500	17.24	5000	34.48
0-1,500	0-10.345	58	400.0	232	1599.6	5000	34.48	5000	34.48
0-2,000	0-13.793	60	414	240	1654.7	5000	34.48	5000	34.48
0-3,000	0-20.69	66	455.1	-	-	5000	34.48	-	-

Diaphragm Actuated



Bellows Actuated



Series Number (how to order)

2WPS W 1 B U 2

MODEL SERIES

HOUSING
 ' - NO HOUSING
 W - WATERTIGHT - NEMA 4, 12 & 13

NUMBER OF ELECTRIC SWITCHES
 1 - ONE S.P.D.T.
 2 - TWO S.P.D.T. - (SWITCH TYPE "5" ONLY)

SENSING ELEMENT
 B - BELLOWS SENSING ELEMENT (STANDARD)

SPECIAL FEATURES
 M - 1/2 NPT MALE PIPE MOUNTING
 Q - DOUBLE SNAP ACTING BELLEVEILLE SPRING - TO PROVIDE POSITIVE SETPOINT
 ACCURACY IN HIGH VIBRATION APPLICATIONS
 U - ADDITIONAL PAINTING AFTER ASSEMBLY
 V - HIGH TEMPERATURE SERVICE - INCREASED FROM 180°F TO 250°F AMBIENT

TYPE OF ELECTRIC SWITCHES
 1 - LOW DEADBAND
 15A - 125, 250, 480 VAC
 2 - STANDARD DEADBAND
 15A - 125, 250, 480 VAC; 0.5A - 125 VDC
 3 - HIGH DC RATED (MAGNETIC BLOWOUT)
 10A - 125 VDC; 3A - 250 VDC
 5 - SUB MINIATURE SWITCH - 2 S.P.D.T.
 5A - 125, 250 VAC; 0.5A - 125 VDC
 6 - GOLD CONTACT -
 1 A - 125 VAC