

PMLA/PMHA Field Adjustable pressure switch with fixed differential



General Description

The PMLA is a inline pressure switch field adjustable ranges from 0.15 bar (2psi) to 10 bar (150psi) depending on a combination of spring rate and actuator area ref to table opposite for further information. Diaphragm material Kapton only.

Notes

1. Differential range is less than 5% of full set range.
2. Over pressure PMLA to 35 bar (500psi) PMHA to 600 bar (9000 psi)
3. All switches are CE compliant.
4. Can be supplied with Gold Contacts for use with PLCs or where (less than 12volts and 20 milliamp) switching is required.
5. The rate of pressure rise especially in press type applications can adversely effect the switch life cycle expectancy. In this type of application it is recommended that a snubber be fitted.
6. Viton has a much reduced mechanical life.

PMHA as above with adjustable ranges from

0.35 bar (5 psi) to 210 bar (3000 psi)

A proven elastomer 'cushion' support diaphragm is used on all switches where system pressure exceed 35 bar (500psi) this is a proven concept which prevents any extrusion of the elastomer diaphragm Even at pressures up to 545 bar (8000psi).

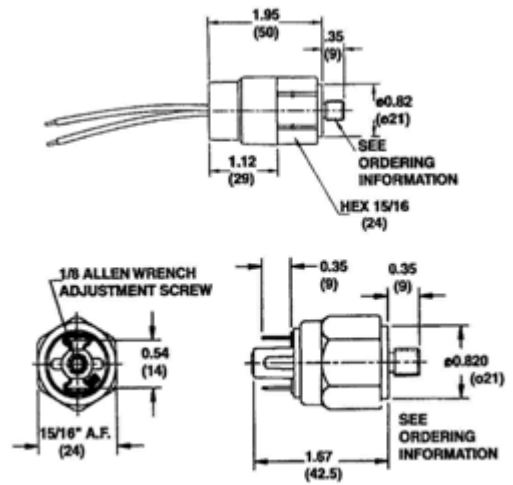
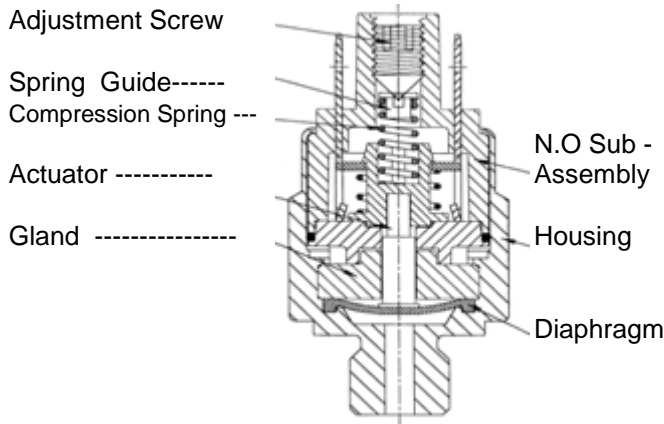
How to Order.

PMHA 2 - 4G - B - SP

This is model PDHA range 2 with 1/4 bsp Male Con Normally Closed contacts and spade Terminals.

PMHA	2	>	4G	>	B	>	SP	>	2
Model	Range		Medium Connection		Switch		Electrical Connections		Options
PMLA	1 = 2- 10 Psi		2G = 1/8bsp Male		A = N.O.		SP = Spade Terminals		1 = VITON
PMHA	2 = 7 - 25 Psi		4G = 1/4 bsp male		B = N.C.		FL = Flying leads		2 = EPDM
	3 = 20 - 60 Psi								7 = Gold
	4 = 50 - 150 Psi								30= rubber boot
	SEE Table for PMHA				Other port thread sizes and options available on request				

PMLA/PMHA



Electrical	Working Voltage 100Va Max Voltage 42VDC
Protection	Spade Terminals = 00 / Sealed optional = - IP65
Temperature range	PMLA Ambient & Media - 40°F to + 250 °F (- 40° to +120 °C)
Mechanical Life	10,000,000 PMLA at 5 bar (75) PMHA at 70 bar (1000 psi) Nitrile
Diaphragm material	PMLA Kapton / PMHA Nitrile Standard (optional EPDM & Viton)
Housing material	PMLA = Brass/ PMHA zinc plated Steel standard (optional 316SS)
Maximum overpressure	PMLA 35 bar (500 psi) / PMHA 600 bar (9000 Psi)
Repeatedility	± 5% of full set point range @ 20 °C (70 °F)
Weight	0.06KG (0.14.0lbs)

Adjustment Ranges

Model PMHA	Adjustment range		Average differential	wetted materials
	PSI	Bar		
1	10 - 30	0.7 - 2	Both Models have a fixed differential Less than 5% of Full Set Point Range.	Brass Kapton Nit rile and Zinc Plated Steel
2	25 - 75	1.5 - 5		
3	65 - 300	4 - 20		
4	500 - 1250	35 - 85		
5	1000 - 3000	70 - 210		

*Option = 30 Rubber boot Electrical protection Cover

*Option 7 may be required for less than 12VDC and 20 Milliamps

Model PMLA	Adjustment range	
	Bar	Psi
1	0.15/7	2/10
2	0.5/1.7	7/25
3	1.4/4	20/60
4	3.5/10	50/150

How to adjust pressure switch settings

1.adjust clockwise set point adjustment to increase set point and counter clockwise to decrease,