

## P250 Pressure Switch with Overpressure Protection

### Technical Specifications

No.	Name	Requirements
1	Activation Point Range	1.0 - 100 PSI
2	Activation Point Tolerance	See Table XII
3	Burst Pressure	6,000 PSI
4	Temperature Range	-65° F to + 225° F
5	Leak Rate	≤1.0 x 10 <sup>-3</sup> cc/min Air
6	Weight	5 oz (typical with 12 inch "W3" electrical interface)

### Electrical Rating

Max. Amp Rating	Volts AC/DC	Amp Resistive	Amp Inductive	Contact Material
1	115/28	1/1	1/0.5	Gold
5	250/28	5/5	5/3	Silver
7	250/28	7/7	7/4	Silver

### Material Specifications P250

Wetted		Non Wetted	
Diaphragm	Kapton® or Stainless Steel	Adjusting Nut	Steel
Fitting	300 Series Stainless Steel	Body	300 Series Stainless Steel
O-Rings	Buna N, other compounds available	Electrical Interface	Steel (zinc chromate finish)
Screw	300 Series Stainless Steel	Locking Compound	Loctite 277
Washer	300 Series Stainless Steel		



Overpressure

#### Pressure Switch Adjustment (if field adjustable)

A change in the activation may be made by turning the adjusting ring located in the opening in the side of the body. Causing the ring to turn left will raise the activation point, and turning it right will lower it. For the best results after resetting the switch, cycle the system pressure level several times to stabilize the new activation point. Repeat preceding adjustment instructions if necessary.

## Operating Pressure Range and Standard Tolerances

Table XII - Positive Pressure Activation Points P250 Series

Sensor	Max Operating Pressure (PSI)	Proof Pressure (PSI)	Activation Point Range (PSI)	Activation Point Tolerance (±) (PSI)	Reset Band (PSI)
1	4,000	5,000	1 - 10	± 0.2	0.5 - 1.5
2	4,000	5,000	10 - 20	± 0.4	1.0 - 4.0
3	4,000	5,000	20 - 35	± 0.7	2.0 - 5.0
4	4,000	5,000	35 - 60	± 1.2	4.5 - 8.0
5	4,000	5,000	60 - 100	± 2.0	7.0 - 15.0

Custom specifications available

## V250 Vacuum Switch with Overpressure Protection

### Technical Specifications

No.	Name	Requirements
1	Activation Point Range	0.5 - 29.5 inHg
2	Activation Point Tolerance	See Table XIII
3	Burst Pressure	6,000 PSI
4	Temperature Range	-65° F to + 225° F
5	Leak Rate	≤1.0 x 10 <sup>-3</sup> cc/min Air
6	Weight	5 oz (typical with 12 inch "W3" electrical interface)

### Electrical Rating

Max. Amp Rating	Volts AC/DC	Amp Resistive	Amp Inductive	Contact Material
1	115/28	1/1	1/0.5	Gold
5	250/28	5/5	5/3	Silver
7	250/28	7/7	7/4	Silver

### Material Specifications V250

Wetted		Non Wetted	
Diaphragm	Kapton® or Stainless Steel	Actuator/Springs	Steel
Fitting	300 Series Stainless Steel	Adjusting Nut	Steel
O-Rings	Buna N, other compounds available	Body	300 Series Stainless Steel
Screw	300 Series Stainless Steel	Electrical Interface	Steel (zinc chromate finish)
Washer	300 Series Stainless Steel	Locking Compound	Loctite 277



Overpressure

#### Vacuum Switch Adjustment (if field adjustable)

A change in the activation may be made by turning the adjusting ring located in the opening in the side of the body. Causing the ring to turn right will raise the activation point, and left will lower it. For the best results after resetting the switch, cycle the system pressure level several times to stabilize the new activation point. Repeat preceding adjustment instructions if necessary.

## Operating Vacuum Range and Standard Tolerances

Table XIII - Vacuum Activation Points V250 Series

Sensor	Max Operating Pressure (PSI)	Activation Point Range (inHg)	Activation Point Tolerance (±) (inHg)	Reset Band (inHg)
0*	3,000	0.5 - 2.0	± 0.3	1.0 - 3.5
1	3,000	2.0 - 5.0	± 0.3	1.0 - 3.5
2	3,000	2.5 - 12.0	± 0.4	1.5 - 6.0
3	3,000	10.0 - 29.5	± 0.4	3.0 - 8.0

\*Activation Point Range 0.5-2.0 inHg is decreasing vacuum only  
Custom specifications available