CLARK SOLUTIONS

VP Vacuum Switch

Set Point Range, 1-29" Hg, Field Adjustable **DESCRIPTION**

Model VP is a simple, reliable low cost Vacuum switch that uses a spring loaded long-life elastomeric diaphragm as the sensing element. Model VP can be provided with a factory calibrated set-point or can be field adjustable.

In operation, the diaphragm actuates a snap action electrical switch that insures a positive, instantaneous electrical contact under all operating conditions.



Set Point Range- 1-29" Hg (25-736 mm Hg)
Set Point Tolerance- ±2" Hg (50 mm Hg)
Max Operating pressure- 250 PSi (17 bar)
Switch Deadband (differential)- 20-40%
Current Rating- 5 A @250 VAC, 5A @30 VDC (Resistive)
Media Connection- Zinc Plated Steel
Circuit Form- SPST-NO, SPST-NC, SPDT
Electrical Connections- See Order Table Below
Diaphragm- Buna-N (consult us for other materials)
Cycle Life- 1 Million Cycles
Housing- NEMA 4, 13

ORDERING INFORMATION

ORDER NUMBER (SEE TABLE) **A-BCD-EFG**

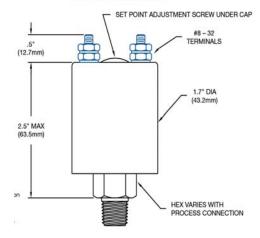
EXAMPLES- VP-S1C2R5WL

VP-S1C2JWL



DIMENSIONS (MM)

(See Electrical Options Below)



A Model	B Connection Material	C Media Connection	D Circuit Form	E Adjustment Range	F Factory Set Point or Field Adjustable	G *Electrical Options
VP	S= Zinc Plated Steel	1= 1/4" NPT Male 11= 9/16" SAE O-Ring (-6) 13= 1/2" SAE O-Ring (-5) 17= 1/4" BSPP Male (G1/4)	CSPDT	1= 1"-5" Hg 2= 4"-15" Hg 3= 10"-29" Hg	Rxx=Rising, factory preset, specify switch point Fxx=Falling, factory preset, specify switch point J=Rising Adjustable G=Falling Adjustable	- = Screw Terminals (Standard) WL= Wire Leads 18" WP= Weather Pack HR= DIN43650A Connector MP= Metri-Pack AT= 10 A @ 125/250 VAC 5 A @ 30 VDC AU= Gold Plate/Alloy for low currents *See next page for more choices

More about changing switch state.....

The snap-action design will maintain its state with contacts either open or closed, until a precise set point is reached when it will snap over center to a new state. It will remain in that state until a distinct change towards its original setting is sensed, at which time it will snap back to its original state.

The design's snap-action feature prevents contact intermittency near its switch point, which is common in creeper designs. As system pressures fluctuate, our switches inherent differential prevents searching. Only the highest quality snap-action switches are used. The switches are UL, CSA, and military approved.

The elastomer diaphragm, which moves a precise .040 of an inch, ensures accurate, instantaneous contact under all operating conditions. While nitrile is preferred for general use, other materials are available.

A COMPREHENSIVE SELECTION OF ELECTRICAL CONNECTIONS

We see designs used in all types of applications imaginable, so we want to make sure you have a wide choice of electrical connections.

We offer a growing selection of connections, and if you want something else, just ask us for it.









 Color Code:
 Black – Common
 Red – Normally Open
 Blue – Normally Closed

 Pin Assignments:
 A – Normally Open
 B – Common
 C – Normally Closed

 DIN Connector Pin Assignments:
 #1 – Common
 #2 – Normally Closed
 #3 – Normally Open
 #4

DIN Connector Pin Assignments: #1 - Common #2 - Normally Closed #3 - Normally Open #4 - Not Used

M12 Connector Pin Assignments: #1 - Common #2 - Not Used #3 - Normally Open #4 - Normally Closed

#4 - Not Used #4 - Normally Closed