

# CLARK SOLUTIONS NV Vacuum Switch

Set Point Range, 3-29" Hg, Field Adjustable

## DESCRIPTION

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

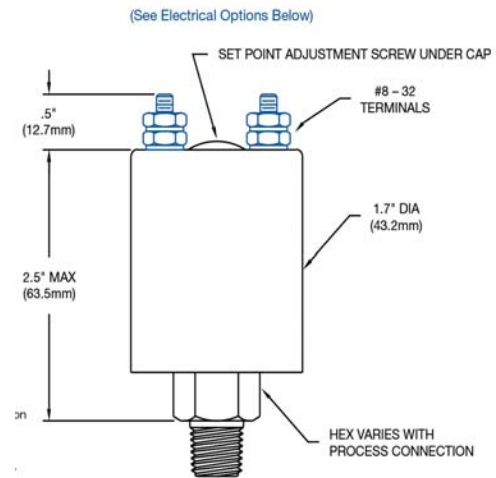
In operation, the diaphragm actuates a snap action electrical switch that insures a positive, instantaneous electrical contact under all operating conditions.



## SPECIFICATIONS

- Set Point Range- 3-29" Hg (76-736 mm Hg)
- Set Point Tolerance-  $\pm 2$ " 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- Brass Standard, Optional: Aluminum, Nickel Plating, Delrin, 303 SS, 316 SS
- 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

## DIMENSIONS (MM)



## ORDERING INFORMATION

ORDER NUMBER (SEE TABLE)

**A-BCD-EFG**

EXAMPLES- NV-B1C-1R6WP

NV-B1C-1JWP

A Model	B Connection Material	C Media Connection	D Circuit Form	E Adjustment Range	F Factory Set Point or Field Adjustable	G *Electrical Options
NV	A= Aluminum <b>B= Brass (Standard)</b> N= Nickel Plating P= Delrin T= 303 Stainless Steel U= 316 Stainless Steel	1= 1/4" NPT Male 3= 3/4" UNF SAE O-Ring (-5) 17= 1/4" BSPP Male (G1/4)	A SPST-NO B SPST-NC C SPDT	1= 3"-12" Hg 2= 8"-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.

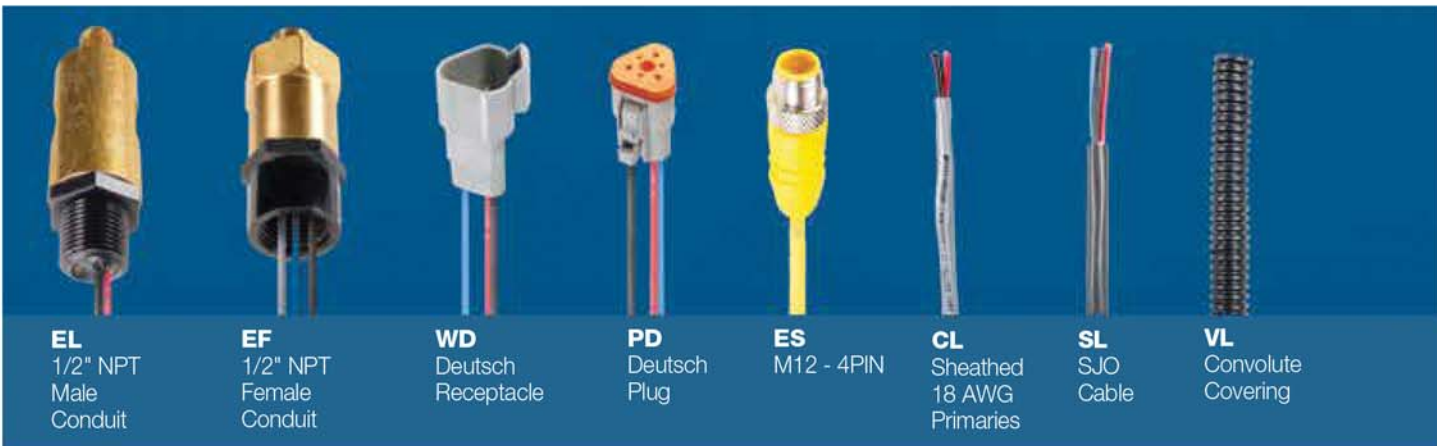
The design's snap-action feature prevents contact intermittency near its switch point, which is common in creeper designs. As system pressures fluctuate, our switches inherent differential prevents searching. Only the highest quality snap-action switches are used. The switches are UL, CSA, and military 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 – Not Used  
**M12 Connector Pin Assignments:** #1 – Common    #2 – Not Used    #3 – Normally Open    #4 – Normally Closed