

# Vacuum generators VN-P

**FESTO**



## Integrated

No competitors, unique worldwide: VN-P vacuum generators with integrated vacuum monitoring. Our integration specialists have taken our well-proven VN model for decentral vacuum generation and incorporated the functionality of our SDE 5 vacuum sensor. The result: An enormous gain in performance coupled with maximum reliability – a product known as VN-P.



### More reliable ...

... transport of workpieces,  
Thanks to the integrated vacuum monitoring, the vacuum generators can detect reliably whether workpieces are present or not.

### Simpler ...

... operation, with “teach-in” at the press of a button. Saves valuable time when setting switching points and minimises operator errors.

### Faster ...

... cycle times, thanks to direct installation of vacuum generators in the gripping zone. This advantage is made possible by their compact design and low weight.

### More convenient ...

... maintenance – since none is required. The maintenance-free open silencers ensure trouble-free operation of your installation.



VN

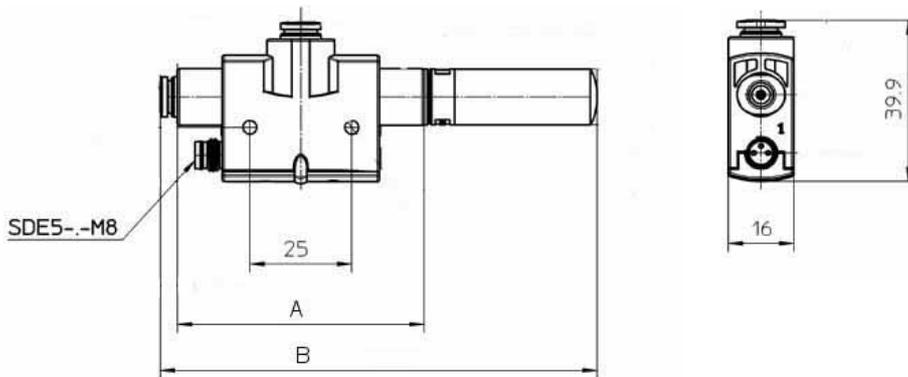
+ SDE5

= VN-P

402.2.PSI →

Product Short Information

# Vacuum generators VN-P



Type	VN-05	VN-07	VN-10
Dimension A [mm]	44.2	60.5	
Dimension B [mm]	93.3	107.1	

Technical data	
Measuring principle	Piezoresistive pressure sensor
Installation position	Any
Operating medium	Dry filtered (40 µm) unlubricated compressed air
Operating pressure [bar]	1...8 (optimum operating pressure: 5 ... 6 bar)
Ambient temperature [°C]	0...+50
Weight [g]	30
Nominal size of venturi nozzle	0.45/0.70/0.95
Max. vacuum	L type: 50%; H type 88%
Hysteresis adjustment range	0 ... 100% (mode 2)
Reproducibility	± 0.3% FS
Operating voltage range	15...30 V DC
Type of display	LED switching status display

## Security through integration:

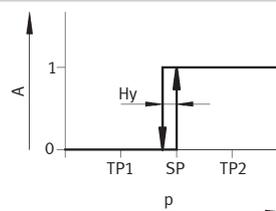
### Mode of operation

The stored “teach-in” values are averaged. If the vacuum present is below the average value, the workpiece is considered to have been gripped. If the vacuum does not reach this value, the workpiece is considered not to be 100% gripped and is ejected as “bad”.

Two different vacuum values (TP1, TP2) are set by means of a teach-in button to ensure reliable workpiece handling. The upper teach-in point (TP2) can be used to switch off vacuum generation.

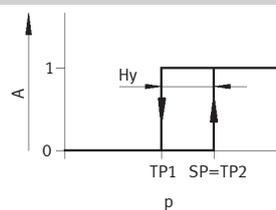
#### Mode 1

Threshold comparator with fixed hysteresis, 2 teach-in pressures



#### Mode 2

Threshold comparator with variable hysteresis, 2 teach-in pressures



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