

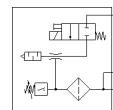
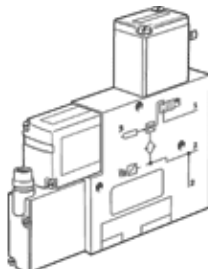
# vacuum generator

## VADM-45-N

Part number: 162513  
Classic - do not use for new projects

FESTO

Modern alternatives can be found by entering the first four characters of the type code in the search field.



## Data sheet

Feature	Value
Nominal size, Laval nozzle	0.45 mm
Grid dimension	10 mm
Design, silencer	closed
Assembly position	Any
Ejector characteristic	High vacuum
Grade of filtration	$\leq 40 \mu\text{m}$
Manual override	Pushing
Integrated function	Ejector pulse valve, electrical Flow control valve Electrical on-off valve Filter Non-return valve Vacuum switch
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	Normally open contact
Switching function	Threshold value comparator
Valve function	closed
Polarity protected	for all electrical connections
Type of display	LED
Hysteresis adjustment range [bar]	-0.5 ... -0.05 bar
Setting options	Potentiometer
Operating status display	Optical
Threshold setting range	-0.9 ... 0 bar
Operating pressure	1.5 ... 8 bar
Max. vacuum	85 %
Nominal operating pressure	6 bar
Air supply time at nominal operating pressure	5.9 s
Operating voltage range DC	21.6 ... 26.4 V
Duty cycle	100 %
Switch output	NPN
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Medium temperature	0 ... 60 °C
Protection class	IP65
Ambient temperature	0 ... 50 °C
Product weight	65 g
Pressure measuring range	0 ... 1 bar
Electrical connection	4-pin

Feature	Value
	M8x1 Plug
Mounting type	with through hole with internal (female) thread Optional
Pneumatic connection, port 1	M5
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	M5
Materials note	Free of copper and PTFE Conforms to RoHS
Material seals	NBR
Material receiver nozzle	Nickel-plated brass
Material filter	PA
Material filter housing	PC
Material housing	Wrought Aluminium alloy
Material silencer	PE POM
Material piston	POM
Material transmitter nozzle	Nickel-plated brass