

VSA100A differential to ambient

The INFICON Vacuum Switch VSA100A is used as a safety switch in vacuum systems. For example, to automatically interrupt the gas supply when venting vacuum systems with a purge gas at a pressure of 6 mbar below atmospheric pressure. At a differential pressure of 6 mbar resp. return switching pressure of 3 mbar below atmospheric pressure, an elastic diaphragm actuates a changeover contact which in turn may be used to switch directly any ancillary equipment.



BENEFITS

- Reliable and budget-priced vacuum switch
- High life time
- Rugged design
- Easy to integrate
- IP 44 protection

ORDERING INFORMATION

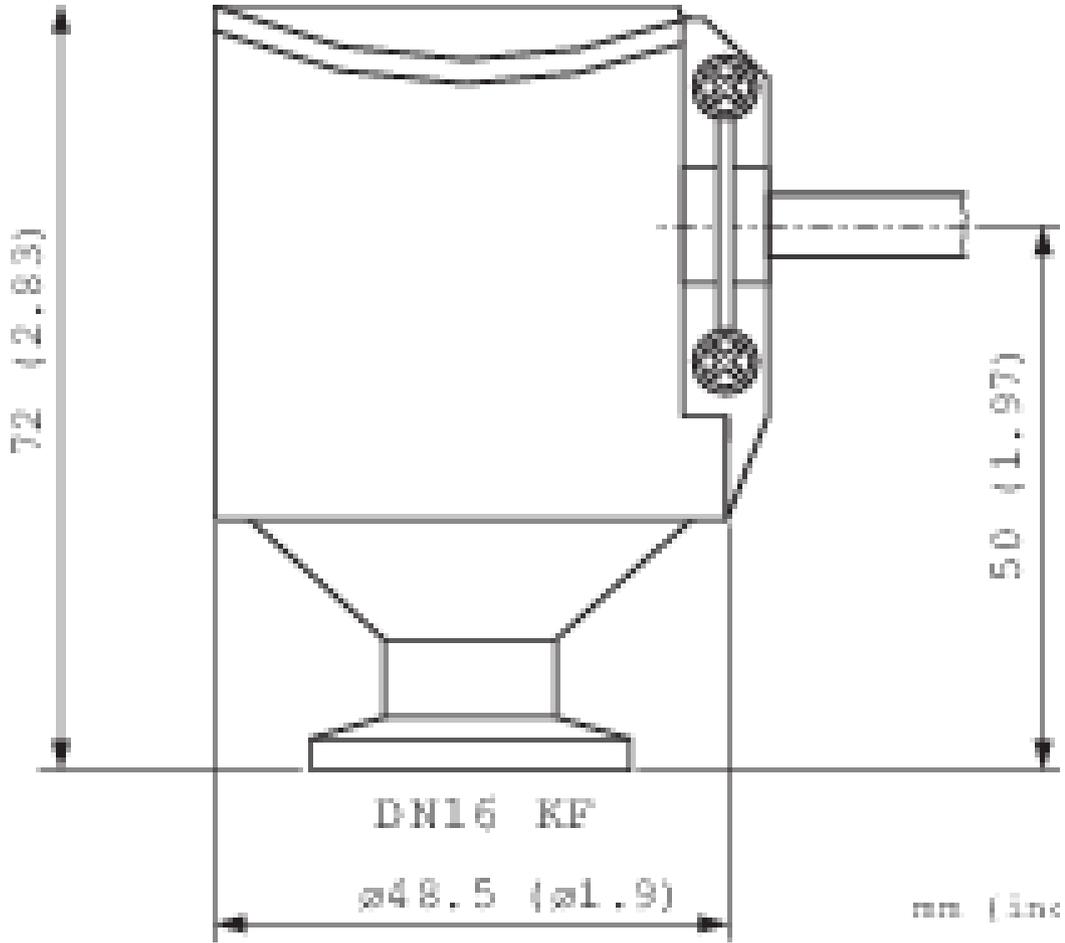
Type	VSA100A
Vacuum switch 3mbar below atmospheric pressure	399-001

SPECIFICATIONS

Type		VSA100A
Switching pressure	mbar	6 ±2 (below atmosphere)
Back switching	mbar	3 ±2 (below atmosphere)
Operating pressure (absolute)	bar	<2
Helium permeation	mbar•L/s	<10 ⁻⁶
Leak rate	mbar•L/s	<5 x 10 ⁻⁸
Temperature		
Operation	°C	0 ... +85
Storage	°C	-20 ... +85
Switching contacts (Change over contact, gold plated)		
Voltage max.	V (dc)	24
Switching contacts (Change over contact, gold plated)		
Voltage max.	V (ac)	24
Switching contacts (Change over contact, gold plated)		
Current max.	mA	30 (24 V(dc)) / 100 (24 V(ac))
Load min.	mA	1
Electrical connector		cable, bare wire
Cable length, standard	m (ft.)	3 (9.9)
Vacuum connection		DN 16 ISO-KF
Protective type		IP 44
Mounting orientation		vertical (standing)
Internal volume	cm ³ (in. ³)	2 (0.122)
Materials exposed to vacuum		stainless steel 1.4305, EPDM, PTFE (Teflon)
Weight	g	315

Technical Note: Due to the diaphragm material used (EPDM) the Vacuum Switch VSA100A is not suited for applications in which the process gas contains large quantities of helium. The leak rate of the diaphragm for helium is -6 mbar l/s.

DIMENSIONS



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