

VSA100A

Vacuum Switch

The pressure switch VSA100A is used as a safety switch in rough 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.

The electrical connections are protected by a plastic cover.

ADVANTAGES

- · Reliable and budget-priced vacuum switch
- · Long service life
- Rugged design
- · Easy to integrate
- IP 44 protection
- Can be connected to a programmable control

APPLICATIONS

- · Control of load lock chambers
- · Safety shutdown of vacuum systems





VSA100A

| ORDERING INFORMATION | | |
|---|---------|--|
| Туре | VSA100A | |
| DN 16 ISO-KF, complete with 3 m (9.9 ft.) cable | 399-001 | |

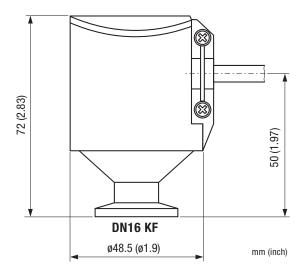
| SPECIFICATIONS | | |
|----------------------------------|---|--|
| | VSA100A | |
| Switching pressure | 6 ± 2 mbar (below atmosphere) | |
| Back switching | 3 ± 2 mbar (below atmosphere) | |
| Operating pressure (absolute) | <2 bar | |
| Helium permeation | 5 x10 ⁻⁵ mbar l/s | |
| Temperature | | |
| Operation | 0 +85 °C | |
| Storage | -20 +85 °C | |
| Switching contacts (gold plated) | Change over contact | |
| Voltage max. | 24 V (dc) / 24 V (ac) | |
| Current max. | 30 mA (24 V (dc)) / 100 mA (24 V (ac)) | |
| Load min. | 1 mA | |
| Electrical connector | Cable, bare wire | |
| Cable length, standard | 3 m (9.9 ft.) | |
| Vacuum connection | DN 16 ISO-KF | |
| Protective type | IP 44 | |
| Mounting orientation | Vertical (standing) | |
| Internal volume | 2 cm ³ (0.122 in. ³) | |
| Materials exposed to vacuum | Stainless steel 1.4305, EPDM, PTFE (Teflon) | |
| Weight | 315 g | |

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 5×10^{-5} mbar l/s.



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DIMENSIONS





Inspired by visions. Proven by success.