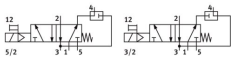
Air solenoid valve
VSNC-FTC-M52-MD-G14-FN-1A1

Part number: 577297



General operating condition

Datasheet product reliability

The information in this "Product reliability data sheet" is based on products being used as intended. This includes complying with all specifications in data sheets, catalogues, user documentation and the general operating conditions. The user alone is responsible for determining whether a product is suitable for a particular application.

Feature	Value
Certified for safety function to ISO 13849 and IEC 61508 (SIL)[1)]	Up to Safety Integrity Level 2 low demand mode Up to Safety Integrity Level 2 high demand mode
Certificate issuing authority	DNVGL-TAA000011J
Mean number of annual operations nop (assumed)[2)]	35000
Probability of Failure per Hour (PFH)[3)]	$5.7*10^{-8}$
Probability of Failure on Demand (PFD)[4)]	$3.5*10^{-3}$
Service-life value B_{10}[5)]	7 Mio cycles
Mean time to failure (MTTF)[6)]	2000 Year
Lap	Underlap

1) Further measures can be necessary to fulfil the stated Safety Integrity Level (SIL). For these measures refer to the relevant documentation.
2) The probability of failure is based on this mean number of annual operations (nop).
3) For components affected by wear this value will be reached, if for the precise application the mean number of annual operations (nop) is equal or lower than the assumed annual operations of this product. The assumed mean number of annual operations is stated in this datasheet.
4) For components affected by wear this value will be reached, if for the precise application the mean number of annual operations (nop) is equal or lower than the assumed annual operations of this product. The assumed mean number of annual operations is stated in this datasheet.
5) The ascertainment of characteristic service life values is based on the ISO 19973 "Pneumatic fluid power - Assessment of component reliability by testing".
6) The ascertainment of the MTTF value is based on the IEC 61709 "Electric components - Reliability - Reference conditions for failure rates and stress models for conversion" respectively on the SN 29500.