

Media separated solenoid valve VYKC-F16-M32-20-PV-H2R

Part number: 8172699

FESTO



Data sheet

Feature	Value
Design	Electrical connection at the side Rocker valve with diaphragm seal
Sealing principle	Soft
Material in contact with the medium	FPM PEEK
Suitable for use with food	See supplementary material information
Valve function	3/2-way, monostable, open/closed
Nominal size	2 mm
Flow direction	Reversible
Type of actuation	Electric
Type of piloting	Direct
Type of reset	Mechanical spring
Manual override	None
Mounting position	optional
Type of mounting	With through-hole for M2.5 screw
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	Connection pattern H
Size	16
Grid dimension	17 mm
Fluid connection	Flange
Medium	Liquid media Gaseous media
Note on the medium	Observe resistance of materials that come into contact with the media Maximum particle size 5 µm
Internal volume	59 µl fluid chamber valve 94 µl valve with fl. conn.
Media temperature	0 °C...50 °C
Media temperature for fluids	0 °C...50 °C
Ambient temperature	0 °C...50 °C
Storage temperature	-20 °C...70 °C
Medium pressure	-0.075 MPa...0.2 MPa -0.75 bar...2 bar -10.875 psi...29 psi

Feature	Value
Burst pressure	2 MPa 20 bar 290 psi
Total leakage	4 ml/h
Operational voltage range DC	12 V...24 V
Permissible voltage fluctuations	+/- 10 %
Information on power consumption	Low-current phase 1.4 W, high-current phase 5.5 W for 100 ms
Characteristic coil data	12 - 24 V DC: low-current phase 1.4 W, high-current phase 5.5 W
Insulation material class	B
Duty cycle	100% in conjunction with holding current reduction Observe the notes on operating the solenoid valves.
Max. switching frequency	4 Hz
Note on switching frequency	Dependent on the ambient temperature and installation state
Switch-on time for fluids	15 ms
Switching time on gaseous media	9 ms
Switch-off time for fluids	7 ms
Switching time off gaseous media	5 ms
Standard nominal flow rate (standardised to DIN 1343)	50 l/min
Note on standard nominal flow rate	In case of a pressure drop of 1 -> 0 bar (gaseous media)
Flow rate Kv	0.041 m ³ /h 0.67 l/min
Note on flow rate Kv	For medium water Pressure difference 1 bar
Water flow rate at max. operating pressure	0,060 m ³ /h 1,0 l/min
Material housing	PEEK
Material membrane	FPM
Material seals	FPM
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III
Product weight	50 g
Degree of protection	IP40
Note on degree of protection	In assembled state
Instructions on use	For indoor use only
Corrosion resistance class CRC	0 - No corrosion stress
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions