

# Media separated solenoid valve VYKB-F12-M22C-20-PE-5HPS

FESTO

Part number: 8140315



[PDF General operating condition](#)

## Data sheet

Feature	Value
Design	Rocker valve with diaphragm seal
Sealing principle	Soft
Material in contact with the medium	PEEK
Valve function	2/2-way, single solenoid, closed
Nominal size	2 mm
Flow direction	Non-reversible
Type of actuation	Electrical
Type of piloting	Direct
Type of reset	Mechanical spring
Manual override	None
Mounting position	Any
Type of mounting	Via through-hole for M3 screw
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	Plug pattern HP
Size	12
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	60 µl
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 ... 0.3 MPa
Medium pressure	-0.75 bar ... 3 bar
Medium pressure	-10.875 psi ... 43.5 psi
Overload pressure	0.45 MPa
Overload pressure	4.5 bar
Overload pressure	65.25 psi
Operational voltage range DC	12 V
Permissible voltage fluctuations	-5 % / +10 %
Characteristic coil data	12 V DC: low-current phase 1 W, high-current phase 5.2 W
Duty cycle	100%
Max. switching frequency	2 Hz

Feature	Value
Note on switching frequency	Dependent on the ambient temperature and installation state
Switching time on	≤15 ms
Switching time on gaseous media	≤15 ms
Switching time off	≤15 ms
Switching time off gaseous media	≤15 ms
Flow rate Kv	0.056 m <sup>3</sup> /h
Flow rate Kv	0.93 l/min
Note on flow rate Kv	For water as medium Pressure difference 1 bar
Symbol	00997351
Material housing	PEEK
Material membrane	EPDM
Material seals	EPDM
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 zone III
Product weight	40 g
Degree of protection	IP40
Corrosion resistance class CRC	0 - No corrosion stress
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions