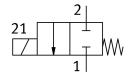
## Media separated solenoid valve VYKB-F10-M22C-16-PE-1HPA Part number: 8122804

**FESTO** 





## **Data sheet**

Sealing principle Soft Material in contact with the medium  EPDM PEEK  Valve function 2/2-way, closed, monostable Nominal size 1.6 mm Flow direction Non-reversible Type of actuation Electric Type of piloting Direct Type of piloting Direct Nome Manual override None Mounting position Optional Type of mounting Via through-hole for M2 screw Electrical connection 1, connection type Electrical connection 1, connector system Connection pattern HP Size 10 Flainge Heidi media Gaseous media Note on the medium Disect Betting all disease of materials that come into contact with the media Maximum particle size 5 μm Media temperature Media temperature O °C50 °C Media temperature Medium pressure Medium pressure  O 3 MPa 0.075 bBr.a 1 bar 1.0.875 psl 1145 psi Overload pressure  O 3 MPa 3 bar 4.35 psi	Feature	Value
Material in contact with the medium  PEEK Valve function  2/2-way, closed, monostable  1.6 mm  Non-reversible  Type of actuation  Type of actuation  Type of piloting  Direct  Mechanical spring  Manual override  Mounting position  Type of mounting  Via through-hole for M2 screw  Electrical connection 1, connector system  Connection pattern HP  Size  10  Fluid connection  Flange  Medium  Uiquid media Gaseous media  Note on the medium  Note on the medium  Media temperature  Media temperature  Media temperature  Media temperature  Medium pressure  Storage temperature  Medium pressure  Overload pressure  0 3 MPa 3 bar 43.5 psi  Pilotic Consection (Annonestable)  1.6 mm  None  None  Menonetron pattern HP  Storage temperature  Overload pressure  Answer  James Answer  J	Design	
PEEK         Valve function       2/2-way, closed, monostable         Nominal size       1.6 mm         Flow direction       Non-reversible         Type of actuation       Electric         Type of piloting       Direct         Type of preset       Mechanical spring         Manual override       None         Mounting position       optional         Type of mounting       Via through-hole for M2 screw         Electrical connection 1, connection type       Cable with plug         Electrical connection 1, connector system       Connection pattern HP         Size       10         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       35 μl         Media temperature       0 °C50 °C         Media temperature for fluids       0 °C50 °C         Ambient temperature       0 °C50 °C         Storage temperature       -0.075 MPa0.1 MPa - 0.75 bar 1 bar - 10.875 psi14.5 psi         Overload pressure       0.3 MPa - 3 bar 4 43.5 psi	Sealing principle	Soft
Nominal size  1.6 mm  Flow direction  Non-reversible  Type of actuation  Type of piloting  Direct  Type of preset  Mechanical spring  Manual override  None  Mounting position  Type of mounting  Electrical connection 1, connection type  Electrical connection 1, connector system  Connection pattern HP  Size  10  Flange  Hedium  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  Media temperature  O °C50 °C  Media temperature  O °C50 °C  Medium pressure  Analysis of the medium  Over50 °C  Medium pressure  O °C50 °C  O.75 MPa0.1 MPa  -0.75 ba1 bar  -10.875 psi14.5 psi  Overload pressure	Material in contact with the medium	=
Flow direction  Non-reversible  Electric  Type of actuation  Electric  Type of piloting  Direct  Type of reset  Mechanical spring  Manual override  None  Mounting position  Optional  Type of mounting  Electrical connection 1, connection type  Electrical connection 1, connector system  Connection pattern HP  Size  10  Flange  Medium  Liquid media  Gaseous media  Note on the medium  Note on the medium  Asimum particle size 5 µm  Media temperature  O °C50 °C  Media temperature  O °C50 °C  Media temperature  O °C50 °C  Storage temperature  O °C50 °C  Medium pressure  Medium pressure  O.3 MPa  0.3 MPa  1.0.875 psi14.5 psi  Overload pressure  O.3 MPa  3 bar  43.5 psi	Valve function	2/2-way, closed, monostable
Type of actuation  Electric Type of piloting Direct Type of reset Mechanical spring Manual override None Mounting position Type of mounting Electrical connection 1, connection type Electrical connection 1, connector system Size 10 Fluid connection Flange Medium Liquid media Gaseous media Note on the medium Observer resistance of materials that come into contact with the media Maximum particle size 5 µm Media temperature O °C50 °C Media temperature O °C50 °C Medium pressure Overload pressure Medium pressure Overload pressure Output Media temperature O Size overload pressure	Nominal size	1.6 mm
Type of piloting Type of reset Mechanical spring Manual override Mounting position Optional Type of mounting Electrical connection 1, connection type Cable with plug Electrical connection 1, connector system Connection pattern HP Size 10 Fluid connection Fluid connection Fluid media Gaseous media Note on the medium Observe resistance of materials that come into contact with the media Maximum particle size 5 µm Media temperature Media temperature O°C50 °C Media temperature for fluids O°C50 °C Media temperature O°C50 °C Medium pressure O°C50 °C Medium pressure O°C50 °C Medium pressure O°C50 °C O	Flow direction	Non-reversible
Type of reset  Manual override  Mounting position  Optional  Type of mounting  Via through-hole for M2 screw  Electrical connection 1, connection type  Cable with plug  Electrical connection 1, connector system  Connection pattern HP  Size  10  Flunge  Medium  Heilud connection  Flange  Medium  Observe resistance of materials that come into contact with the media Gaseous media  Note on the medium  Observe resistance of materials that come into contact with the media Maximum particle size 5 μm  Media temperature  O °C50 °C  Media temperature for fluids  O °C50 °C  Media temperature  O °C50 °C  Medium pressure  O °C70 °C  Medium pressure  O.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure	Type of actuation	Electric
Manual override  Mounting position  Type of mounting  Electrical connection 1, connection type  Electrical connection 1, connector system  Connection pattern HP  Size  10  Fluid connection  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  Media temperature  0 °C50 °C  Media temperature  0 °C50 °C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  None  Via through-hole for M2 screw  Cable with plug  Cable with plug  Cable with plug  Connection pattern HP  Size  10  Flange  Liquid media Gaseous media  Observe resistance of materials that come into contact with the media Maximum particle size 5 µm  O °C50 °C  Media temperature  0 °C50 °C  O °C50 °C  Medium pressure  0 °C50 °C  Medium pressure  0 °C50 °C  O.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure	Type of piloting	Direct
Mounting position Type of mounting Via through-hole for M2 screw Electrical connection 1, connection type Cable with plug Electrical connection 1, connector system Connection pattern HP Size 10 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 35 μl Media temperature 0 °C50 °C Media temperature for fluids 0 °C50 °C Ambient temperature 0 °C70 °C Medium pressure -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi Overload pressure 0 35 μl	Type of reset	Mechanical spring
Type of mounting  Via through-hole for M2 screw  Electrical connection 1, connector type  Electrical connection 1, connector system  Connection pattern HP  Size  10  Fluid connection  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  35 μl  Media temperature  0° C50 °C  Media temperature for fluids  0° C50 °C  Ambient temperature  0° C50 °C  Storage temperature  -20 °C70 °C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  0 3 MPa 3 bar 43.5 psi	Manual override	None
Electrical connection 1, connection type  Electrical connection 1, connector system  Connection pattern HP  Size  10  Flunge  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  35 μl  Media temperature  0°C50 °C  Media temperature for fluids  0°C50 °C  Ambient temperature  0°C50 °C  Storage temperature  0°C70 °C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  3 bra 43.5 psi	Mounting position	optional
Electrical connection 1, connector system  Size  10  Flunge  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  35 μl  Media temperature  0°C50°C  Media temperature for fluids  0°C50°C  Ambient temperature  0°C50°C  Storage temperature  -20°C70°C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  0.3 MPa 3 bar 43.5 psi	Type of mounting	Via through-hole for M2 screw
Size 10 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 35 μl Media temperature 0°C50°C Media temperature for fluids 0°C50°C Ambient temperature 0°C50°C Storage temperature 0°C50°C Medium pressure -20°C70°C Medium pressure -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi Overload pressure 0.3 MPa 3 bar 43.5 psi	Electrical connection 1, connection type	Cable with plug
Fluid connection  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  35 µl  Media temperature  0°C50°C  Media temperature for fluids  0°C50°C  Ambient temperature  0°C50°C  Storage temperature  -20°C70°C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  0.3 MPa 3 bar 43.5 psi	Electrical connection 1, connector system	Connection pattern HP
Medium Liquid media Gaseous media  Observe resistance of materials that come into contact with the media Maximum particle size 5 μm  Internal volume 35 μl  Media temperature 0 °C50 °C  Media temperature for fluids 0 °C50 °C  Ambient temperature 0 °C50 °C  Storage temperature -20 °C70 °C  Medium pressure -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure 0.3 MPa 3 bar 43.5 psi	Size	10
Gaseous mediaNote on the mediumObserve resistance of materials that come into contact with the media Maximum particle size 5 μmInternal volume35 μlMedia temperature0 °C50 °CMedia temperature for fluids0 °C50 °CAmbient temperature0 °C50 °CStorage temperature-20 °C70 °CMedium pressure-0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psiOverload pressure0.3 MPa 3 bar 43.5 psi	Fluid connection	Flange
Internal volumeMaximum particle size 5 μmMedia temperature0 °C50 °CMedia temperature for fluids0 °C50 °CAmbient temperature0 °C50 °CStorage temperature-20 °C70 °CMedium pressure-0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psiOverload pressure0.3 MPa 3 bar 43.5 psi	Medium	
Media temperature  0 °C50 °C  Media temperature for fluids  0 °C50 °C  Ambient temperature  0 °C50 °C  Storage temperature  -20 °C70 °C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  0.3 MPa 3 bar 43.5 psi	Note on the medium	
Media temperature for fluids  0 °C50 °C  Ambient temperature  0 °C50 °C  Storage temperature  -20 °C70 °C  Medium pressure  -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  0.3 MPa 3 bar 43.5 psi	Internal volume	35 μl
Ambient temperature 0 °C50 °C  Storage temperature -20 °C70 °C  Medium pressure -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure 0.3 MPa 3 bar 43.5 psi	Media temperature	0 ℃50 ℃
Storage temperature	Media temperature for fluids	0 °C50 °C
-0.075 MPa0.1 MPa	Ambient temperature	0 °C50 °C
-0.75 bar1 bar -10.875 psi14.5 psi  Overload pressure  0.3 MPa 3 bar 43.5 psi	Storage temperature	-20 °C70 °C
3 bar 43.5 psi	Medium pressure	-0.75 bar1 bar
Operational voltage range DC 24 V	Overload pressure	3 bar
	Operational voltage range DC	24 V

Feature	Value
Permissible voltage fluctuations	+/- 10 %
Characteristic coil data	24 V DC: low-current phase 1 W, high-current phase 3.7 W
Duty cycle	100%
Max. switching frequency	2 Hz
Switching time on	15 ms
Switching time off	15 ms
Flow rate Kv	0.034 m³/h
Material housing	PEEK
Material membrane	EPDM
Material seals	EPDM
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III
Product weight	18 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
CE marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions