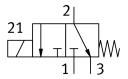
## Media separated solenoid valve VYKB-F10-M32-16-PF-5HPS Part number: 8122821

**FESTO** 





## **Data sheet**

Sealing principle       Soft         Material in contact with the medium       FFPM PEEK         Valve function       3/2-way, monostable, open/closed         Nominal size       1.6 mm         Flow direction       Non-reversible         Type of actuation       Electric         Type of piloting       Direct         Type of reset       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       Connection pattern HP         Size       10         Fluid connection       Flange         Medium       Liquid media         Gaseous media       Connection pattern HP         Media temperature       O°C50 °C         Media temperature       O°C50 °C         Media temperature for fluids       O°C50 °C         Media temperature       O°C50 °C         Media temperatu	Feature	Value
Material in contact with the medium  PEEK Valve function  3/2-way, monostable, open/closed  Nominal size  1.6 mm  Non-reversible  Type of actuation  Type of actuation  Type of piloting  Direct  Media temperature  Media temperature  Media temperature  Media temperature  Medium pressure  Medium p	Design	
PEEK         Valve function       3/2-way, monostable, open/closed         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 bar1 bar - 1.0875 psi14.5 psi         Overload pressure       0.3 MPa - 3 bar 4 43.5 psi	Sealing principle	Soft
Nominal size Flow direction Non-reversible Type of actuation Type of actuation Type of piloting Direct Type of preset Mechanical spring Manual override None Mounting position Type of mounting Mechanical spring Type of mounting Type of mounting Mechanical spring Type of mounting Type of mount	Material in contact with the medium	
Flow direction  Non-reversible  Electric  Type of actuation  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  Connection pattern HP  Size  10  Fluid connection  Flange  Medium  Liquid media Gaseous media  Note on the medium  Note on the medium  Media temperature  O °C50 °C  Media temperature  Medium persure  Storage temperature  Medium pressure  Overload pressure  Medium pressure  Overload pressure  Overload pressure  Overload pressure  Overload pressure  Oiman  None  Mechanical spring  Mechanical spring  None  Mechanical spring  None  Mechanical spring  None  Mechanical spring  None  Media temperature of materials that come into contact with the media maximum particle size 5 µm  Media temperature  O °C50 °C  Storage temperature  O °C50 °C  Medium pressure  O.3 MPa  3 bar  43.5 psi.	Valve function	3/2-way, monostable, open/closed
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  Connection pattern HP  Size  10  Flange  Medium  Liquid media Gaseous media  Note on the medium  Diserve 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  Mediu temperature  0 °C50 °C  Medium pressure  0 °C50 °C  Overload pressure  0.3 MPa 3 bar 43.5 psi.	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  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  Media temperature  Media temperature for fluids  O°C50 °C  Media temperature  O°C50 °C  Medium pressure  O°C50 °C  Medium pressure  O°C50 °C  Occ50 °C  Medium pressure  O°C50 °C  Occ50 °	Flow direction	Non-reversible
Type of reset     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       Medium pressure     -0.075 MPa0.1 MPa - 0.75 bar1 bar - 10.875 psi14.5 psi       Overload pressure     0.3 MPa - 3 bar 4 3.5 psi	Type of actuation	Electric
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 bar1 bar - 10.875 psi14.5 psi         Overload pressure       0.3 MPa - 3 bar - 43.5 psi	Type of piloting	Direct
Mounting position  Type of mounting  Electrical connection 1, connection type  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°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 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  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  -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       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       -20 °C70 °C         Medium pressure       -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi         Overload pressure       0.3 MPa -10.875 psi14.5 psi         Overload pressure       0.3 MPa -10.875 psi14.5 psi	Mounting position	optional
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       -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     -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  Deserve 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
MediumLiquid media 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 	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 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	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  -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 for fluids	0 ℃50 ℃
-0.075 MPa0.1 MPa	Ambient temperature	0 ℃50 ℃
-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 12 V	Overload pressure	3 bar
	Operational voltage range DC	12 V

Feature	Value
Permissible voltage fluctuations	-5% / +10%
Characteristic coil data	12 V DC: low-current phase 1 W, high-current phase 3.7 W
Duty cycle	100%
Max. switching frequency	2 Hz
Switching time on	20 ms
Switching time off	20 ms
Flow rate Kv	0.034 m³/h
Material housing	PEEK
Material membrane	FFPM
Material seals	FFPM
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