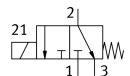
## Media separated solenoid valve VYKB-F10-M32-16-PF-1HPS

**FESTO** 

Part number: 8122824





## **Data sheet**

General operating condition

Rocker valve with diaphragm seal  Sealing principle  Materials in contact with the media  FFPM PEEK  Valve function  Nominal width  1.6 mm  Flow direction  Actuation type Electrical Type of control Reser method  Mechanical spring  Manual override  Monne  Mounting position  Any Type of mounting Electrical onnection 1, connection type Electrical onnection 1, connection type Cable with plug Electrical connection 1, connection type  Fletwical connection 1, connection type Cable with grade  Brage  Medium  Gaseous media  Information on medium  Observe resistance of materials that come into contact with media maximum particle size 5 µm  Internal volume  35 µl  Temperature of liquid media  O °C 50 °C  Medium pressure  O °C 50 °C  Medium pressure  O.075 MPa 0.1 MPa  Medium pressure  Medium pressure  O.075 MPa 0.1 MPa  Medium pressure  Overload pressure  Nome the pressure  As Y  Overload pressure  Overload pre	Feature	Value
Materials in contact with the media  FFPM PEEK  Valve function  Nominal width  1.6 mm  Flow direction  Non-reversible  Electrical  Type of control  Reset method  Mechanical spring  Manual override  Mounting position  Any  Type of mounting  Electrical connection 1, connection type  Electrical onnection 1, connection type  Electrical onnection 1, connection type  Electrical onnection 1, connection type  Electrical connection 1, connection technology  Port pattern HP  Size  10  Fluid connector  Flange  Liquid media  Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 µm  Internal volume  35 µl  Temperature of fliquid media  0 °C 50 °C  Temperature of fliquid media  0 °C 50 °C  Ambient temperature  20 °C 50 °C  Storage temperature  20 °C 50 °C  Medium pressure  -0.075 MPa 0 1 MPa  Medium pressure  -0.075 MPa 0 1 MPa  Medium pressure  -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar  Medium pressure -0.075 MPa 1 bar	Structural design	
PEEK Valve function 3/2, open/closed, monostable Nominal width 1.6 mm Flow direction Non-reversible Actuation type Electrical Type of control Direct Reset method Mechanical spring Manual override None Mounting position Any Type of mounting Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Flange Medium Bindermal Uquid media Gaseous media Information on medium Observe resistance of materials that come into contact with media Maximum particle size 5 µm Internal volume 35 µl Temperature of fliquid media 0°C50°C Ambient temperature O°C50°C Storage temperature O°C50°C Storage temperature O°C50°C Ambient pressure O.075 MPa0.1 MPa Medium pressure O.07	Sealing principle	Soft
Nominal width 1.6 mm Flow direction Non-reversible Actuation type Electrical Type of control Direct Reset method Mechanical spring Manual override None Mounting position Any Type of mounting With through-hole for M2 screw Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Flange Medium Liquid media Gaseous media Information on medium Observe resistance of materials that come into contact with media Maximum particle size 5 µm Internal volume 35 µl Temperature of medium 0° C 50° C Temperature of liquid media 0° C 50° C Storage temperature 0° C 50° C Storage temperature 20° C 70° C Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.3 MPa Medium pressure 0.3 MPa Overload pressure 0.3 MPa Overload pressure 43.5 psi D Overload pressure 42.5 psi D C operating voltage range 24 V Permissible voltage fluctuations +/-10 %	Materials in contact with the media	
Flow direction  Actuation type  Electrical  Type of control  Reset method  Mounting position  Mounting position  Type of mounting  Electrical connection 1, connection type  Electrical connection 1, connection type  Electrical connection 1, connection technology  Port pattern HP  Size  10  Fluid connector  Medium  Liquid media Gaseous media  Information on medium  Maximum particle size 5 µm  Internal volume  35 µl  Temperature of medium  0°C 50 °C  Ambient temperature  10 °C 50 °C  Medium pressure  0°C 50 °C  Medium pressure  10 °C 50 °C  10 °C .	Valve function	3/2, open/closed, monostable
Actuation type  Electrical  Type of control  Reset method  Manual override  Mounting position  Mounting position  Electrical connection 1, connection type  Electrical connection 1, connection technology  Port pattern HP  Size  10  Flunge  Hedium  Liquid media Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 μm  Internal volume  35 μl  Temperature of flediud media  Core 50 °C  Temperature of liquid media  O °C 50 °C  Storage temperature  -20 °C 70 °C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  Overload pressure  Overload pressure  Overload pressure  Overload pressure  43.5 psi  DC operating voltage range  44.V  Permissible voltage fluctuations	Nominal width	1.6 mm
Type of control  Reset method  Mechanical spring  Manual override  Mounting position  Any  Type of mounting  Electrical connection 1, connection type  Electrical connection 1, connection technology  Fluid connector  Fluing  Medium  Eliquid media  Gaseous media  Information on medium  Doserve resistance of materials that come into contact with media  Maximum particle size 5 μm  Internal volume  35 μl  Temperature of medium  O° C 50 °C  Temperature of liquid media  O° C 50 °C  Storage temperature  20 °C 70 °C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  Overload pressure  Overload pressure  Overload pressure  Overload pressure  Overload pressure  43.5 psi  DC operating voltage range  44.V  Permissible voltage fluctuations	Flow direction	Non-reversible
Reset method Manual override Mounting position Any Type of mounting Electrical connection 1, connection type Electrical connection 1, connection technology Electrical connector Flange Fluid connector Flange Medium Binformation on medium Binformation on medium Connector Flange Fluid connector Over 50 °C  Temperature of Inquid media Ambient temperature Congressure Donors temperature Donor	Actuation type	Electrical
Manual override  Mounting position  Any  Type of mounting  With through-hole for M2 screw  Electrical connection 1, connection type  Electrical connection 1, connection type  Electrical connection 1, connection technology  Port pattern HP  Size  10  Fluid connector  Flange  Medium  Liquid media Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 µm  Internal volume  Temperature of medium  O° C 50 °C  Temperature of liquid media O° C 50 °C  Ambient temperature  O° C 50 °C  Storage temperature  O° C 50 °C  Medium pressure  O.075 MPa 0.1 MPa  Medium pressure  Overload pressure  Overload pressure  Overload pressure  Overload pressure  Overload pressure  43.5 psi  DC operating voltage range  Permissible voltage fluctuations  Any  With through-hole for M2 screw  With through-hole for M2 screw  Internal volume  Cable with plug  Electrical connection 1, connection to plug  With through-hole for M2 screw  Lable with plug  Electrical connection 1, connection to plug  With through-hole for M2 screw  Lable with plug  Electrical connection 1, connection to plug  Day port pattern HP  Sale with plug  Electrical connection 1, connection to plug  Day port pattern HP  Liquid media  Gaseous media  Do Serve resistance of materials that come into contact with media  Maximum particle size 5 µm  Internal volume  Oserve resistance of materials that come into contact with media  Gaseous media  Do Serve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materials that come into contact with media  Oserve resistance of materia	Type of control	Direct
Mounting position       Any         Type of mounting       With through-hole for M2 screw         Electrical connection 1, connection type       Cable with plug         Electrical connection 1, connection technology       Port pattern HP         Size       10         Fluid connector       Flange         Medium       Liquid media         Gaseous media       Observe resistance of materials that come into contact with media Maximum particle size 5 μm         Information on medium       35 μl         Temperature of medium       0°C 50°C         Temperature of liquid media       0°C 50°C         Ambient temperature       0°C 50°C         Storage temperature       -20°C 70°C         Medium pressure       -0.075 MPa 0.1 MPa         Medium pressure       -0.75 bar 1 bar         Medium pressure       -0.75 bar 1 4.5 psi         Overload pressure       0.3 MPa         Overload pressure       3 bar         Overload pressure       43.5 psi         DC operating voltage range       24 V         Permissible voltage fluctuations       +/- 10 %	Reset method	Mechanical spring
Type of mounting  Electrical connection 1, connection type  Electrical connection 1, connection technology  Port pattern HP  Size  10  Fluid connector  Medium  Liquid media Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 μm  Internal volume  35 μl  Temperature of medium  0 °C 50 °C  Temperature of liquid media  0 °C 50 °C  Ambient temperature  0 °C 50 °C  Storage temperature  -0.075 MPa 0.1 MPa  Medium pressure  0.03 MPa  Medium pressure  0.3 MPa  Overload pressure  0.3 MPa  Overload pressure  43.5 psi  DC operating voltage range  4/- 10 %	Manual override	None
Electrical connection 1, connection type  Cable with plug  Electrical connection 1, connection technology  Port pattern HP  Size  10  Fluid connector  Flange  Medium  Liquid media Gaseous media  Observe resistance of materials that come into contact with media Maximum particle size 5 µm  Internal volume  35 µl  Temperature of medium  0 °C 50 °C  Temperature of liquid media  0 °C 50 °C  Storage temperature  20 °C 70 °C  Medium pressure  0.075 MPa 0.1 MPa  Medium pressure  0.3 MPa  Overload pressure  0.3 MPa  Overload pressure  3 bar  Overload pressure  43.5 psi  DC operating voltage range  24 V  Permissible voltage fluctuations	Mounting position	Any
Electrical connection 1, connection technology  Port pattern HP  Size  10  Fluid connector  Flange  Liquid media Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 μm  Internal volume  35 μl  Temperature of medium  0°C 50°C  Temperature of liquid media  0°C 50°C  Ambient temperature  0°C 50°C  Storage temperature  20°C 70°C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  -0.75 bar 1 bar  Medium pressure  0°C 50°C  Overload pressure  0°C 50°C  43.5 psi  Overload pressure  0°C 50°C  43.5 psi  DC operating voltage range  24 V  Permissible voltage fluctuations  +/- 10 %	Type of mounting	With through-hole for M2 screw
Fluid connector  Flange  Medium  Liquid media Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 μm  Internal volume  35 μl  Temperature of medium  0°C 50 °C  Temperature of liquid media  0°C 50 °C  Ambient temperature  0°C 50 °C  Storage temperature  -20 °C 70 °C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  -0.75 bar 1 bar  Medium pressure  0°C loser on 14.5 psi  Overload pressure  0.3 MPa  Overload pressure  3 bar  Overload pressure  43.5 psi  DC operating voltage range  24 V  Permissible voltage fluctuations  +/- 10 %	Electrical connection 1, connection type	Cable with plug
Fluid connector       Flange         Medium       Liquid media Gaseous media         Information on medium       Observe resistance of materials that come into contact with media Maximum particle size 5 μm         Internal volume       35 μl         Temperature of medium       0 °C 50 °C         Temperature of liquid media       0 °C 50 °C         Ambient temperature       0 °C 50 °C         Storage temperature       -20 °C 70 °C         Medium pressure       -0.075 MPa 0.1 MPa         Medium pressure       -0.75 bar 1 bar         Medium pressure       -0.875 psi 14.5 psi         Overload pressure       0.3 MPa         Overload pressure       3 bar         Overload pressure       43.5 psi         DC operating voltage range       24 V         Permissible voltage fluctuations       +/- 10 %	Electrical connection 1, connection technology	Port pattern HP
Medium  Liquid media Gaseous media  Information on medium  Observe resistance of materials that come into contact with media Maximum particle size 5 μm  Internal volume  35 μl  Temperature of medium  0° C 50° C  Temperature of liquid media  0° C 50° C  Ambient temperature  0° C 50° C  Storage temperature  -20° C 70° C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  0.0875 psi 14.5 psi  Overload pressure  0.3 MPa  Overload pressure  3 bar  Overload pressure  43.5 psi  DC operating voltage range  24 V  Permissible voltage fluctuations	Size	10
Gaseous media         Information on medium       Observe resistance of materials that come into contact with media Maximum particle size 5 μm         Internal volume       35 μl         Temperature of medium       0 °C 50 °C         Temperature of liquid media       0 °C 50 °C         Ambient temperature       0 °C 50 °C         Storage temperature       -20 °C 70 °C         Medium pressure       -0.75 MPa 0.1 MPa         Medium pressure       -0.75 bar 1 bar         Medium pressure       -10.875 psi 14.5 psi         Overload pressure       0.3 MPa         Overload pressure       3 bar         Overload pressure       43.5 psi         DC operating voltage range       24 V         Permissible voltage fluctuations       +/- 10 %	Fluid connector	Flange
Internal volume35 μlTemperature of medium0 °C 50 °CTemperature of liquid media0 °C 50 °CAmbient temperature0 °C 50 °CStorage temperature-20 °C 70 °CMedium pressure-0.075 MPa 0.1 MPaMedium pressure-0.75 bar 1 barMedium pressure-10.875 psi 14.5 psiOverload pressure0.3 MPaOverload pressure3 barOverload pressure43.5 psiDC operating voltage range24 VPermissible voltage fluctuations+/- 10 %	Medium	
Temperature of medium  O °C 50 °C  Temperature of liquid media  O °C 50 °C  Ambient temperature  O °C 50 °C  Storage temperature  -20 °C 70 °C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  -0.75 bar 1 bar  Medium pressure  Overload pressure  0.3 MPa  Overload pressure  3 bar  Overload pressure  43.5 psi  DC operating voltage range  Permissible voltage fluctuations  -10.875 psi	Information on medium	
Temperature of liquid media 0 °C 50 °C  Ambient temperature 0 °C 50 °C  Storage temperature -20 °C 70 °C  Medium pressure -0.075 MPa 0.1 MPa  Medium pressure -0.75 bar 1 bar  Medium pressure -10.875 psi 14.5 psi  Overload pressure 0.3 MPa  Overload pressure 3 bar  Overload pressure 43.5 psi  DC operating voltage range 24 V  Permissible voltage fluctuations +/- 10 %	Internal volume	35 μl
Ambient temperature 0 °C 50 °C  Storage temperature -20 °C 70 °C  Medium pressure -0.075 MPa 0.1 MPa  Medium pressure -0.75 bar 1 bar  Medium pressure -10.875 psi 14.5 psi  Overload pressure 0.3 MPa  Overload pressure 3 bar  Overload pressure 43.5 psi  DC operating voltage range 24 V  Permissible voltage fluctuations +/- 10 %	Temperature of medium	0 ℃ 50 ℃
Storage temperature  -20 °C 70 °C  Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  -0.75 bar 1 bar  Medium pressure  -10.875 psi 14.5 psi  Overload pressure  0.3 MPa  Overload pressure  3 bar  Overload pressure  43.5 psi  DC operating voltage range  24 V  Permissible voltage fluctuations  -20 °C 70 °C  -0.075 MPa  -0.75 bar 1 bar  -10.875 psi  -10.875 psi -10.875 psi  -10.875 psi -10	Temperature of liquid media	0 ℃ 50 ℃
Medium pressure  -0.075 MPa 0.1 MPa  Medium pressure  -0.75 bar 1 bar  Medium pressure  -10.875 psi 14.5 psi  Overload pressure  0.3 MPa  Overload pressure  3 bar  Overload pressure  43.5 psi  DC operating voltage range  Permissible voltage fluctuations  -10.075 MPa 0.1 MPa  -10.875 psi 14.5 psi  0.3 MPa  24 V  43.5 psi  24 V  43.5 psi	Ambient temperature	0 ℃ 50 ℃
Medium pressure -0.75 bar 1 bar  Medium pressure -10.875 psi 14.5 psi Overload pressure 0.3 MPa Overload pressure 3 bar Overload pressure 43.5 psi DC operating voltage range 24 V Permissible voltage fluctuations +/- 10 %	Storage temperature	-20 °C 70 °C
Medium pressure -10.875 psi 14.5 psi Overload pressure 0.3 MPa Overload pressure 3 bar Overload pressure 43.5 psi DC operating voltage range 24 V Permissible voltage fluctuations +/- 10 %	Medium pressure	-0.075 MPa 0.1 MPa
Overload pressure 0.3 MPa Overload pressure 3 bar Overload pressure 43.5 psi DC operating voltage range 24 V Permissible voltage fluctuations +/- 10 %	Medium pressure	-0.75 bar 1 bar
Overload pressure 3 bar Overload pressure 43.5 psi DC operating voltage range 24 V Permissible voltage fluctuations +/- 10 %	Medium pressure	-10.875 psi 14.5 psi
Overload pressure 43.5 psi DC operating voltage range 24 V Permissible voltage fluctuations +/- 10 %	Overload pressure	0.3 MPa
DC operating voltage range 24 V Permissible voltage fluctuations +/- 10 %	Overload pressure	3 bar
Permissible voltage fluctuations +/- 10 %	Overload pressure	43.5 psi
	DC operating voltage range	24 V
Coil characteristics 24 V DC: low-current phase 1 W, high-current phase 3.7 W	Permissible voltage fluctuations	+/- 10 %
	Coil characteristics	24 V DC: low-current phase 1 W, high-current phase 3.7 W

Feature	Value
Duty cycle	100%
Max. switching frequency	2 Hz
On switching time	≤20 ms
Switching time off	≤20 ms
Flow rate Kv	0.034 m³/h
Symbol	00997353
Housing material	PEEK
Diaphragm material	FFPM
Seals material	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 marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions