Media separated solenoid valve VYKB-F10-M32-16-PF-5HPA

FESTO

Part number: 8122809



Data sheet

General operating condition

Rocker valve with diaphragm seal Soft Materials in contact with the media FFPM PEEK Valve function 3/2, open/closed, monostable Nominal width 1.6 mm Flow direction Actuation type Electrical Type of control 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 type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Flange 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 Ambient temperature 0 *C 50 *C Ambient temperature 0 *C 50 *C Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.075 MPa 0.3 MPa 0.0verload pressure	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 None Mounting position Any Type of mounting Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology For partern 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 Temperature of medium O °C50 °C Storage temperature 0 °C50 °C Storage temperature -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 0.43.5 psi DC operating voltage fluctuations -5 % / +10 %	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 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 fliquid media 0 °C 50 °C Temperature of Inquid media 0 °C 50 °C Ambient temperature 0 °C 50 °C Storage temperature 0 °C 70 °C Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.75 Par 1 har Medium pressure 10.875 psi 14.5 psi Overload pressure 43.5 psi Do operating voltage range 12 V Permissible voltage fluctuations 5 % / +10 %	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 0° c 50 °C Medium pressure 0.0.75 MPa 0.1 MPa Medium pressure 0.3 MPa Medium pressure 0.3 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 Operating voltage range 12 V Permissible voltage fluctuations 5 % / +10 %	Materials in contact with the media	
Flow direction Actuation type Electrical Type of control Reset method Mounting position Mounting position Any Type of mounting Electrical connection 1, connection type Electrical connection 1, connection technology Size Fluid connector Medium Electrical connection Mounting position Any Tope of mounting Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology Port pattern HP Size 10 Flange Liquid media Gaseous media Information on medium Caseous 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 Ambient temperature 0°C 50 °C Medium pressure 0°C 50 °C Medium pressure 0°C 50 °C Medium pressure 10.075 MPa 0.1 MPa Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.040 Amba Medium pressure 0.05 MPa 0.1 MPa Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.3 MPa Overload pressure 0.3 MPa Overload pressure 0.43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations 5 % / +10 %	Valve function	3/2, open/closed, monostable
Actuation type Type of control Direct Reset method Mechanical spring Manual override None Mounting position Any Type of mounting Electrical connection 1, connection type Cable with plug Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Fluid connector Fluid asseous 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 Careeus or Careeus Temperature of liquid media O °C 50 °C Temperature of liquid media O °C 50 °C Ambient temperature O °C 50 °C Storage temperature O °C 70 °C Medium pressure O.075 MPa 0.1 MPa Medium pressure O.3 MPa Medium pressure O.3 MPa Overload pressure O.45 psi Overload pressure O.45 psi Overload pressure Overload pressure A3.5 psi DC operating voltage range 12 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 Fluid connector Fluid dedium 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°C50°C Temperature of liquid media 0°C50°C Ambient temperature 20°C50°C Storage temperature -0.075 MPa 0.1 MPa Medium pressure Medium pressure 0.075 bar 1 bar Medium pressure Overload pressure 0.3 MPa Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations	Flow direction	Non-reversible
Reset method Mechanical spring Manual override Mounting position Any Type of mounting Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Slize 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 Storage temperature O° C 50 °C Medium pressure O.075 MPa 0.1 MPa Medium pressure O.75 bar 1 bar Medium pressure Overload pressure Overload pressure Overload pressure D. Operating voltage range 12 V Permissible voltage fluctuations Any With through-hole for M2 screw With through-hole for M2 screw Any Methous place Any With through-hole for M2 screw With through-hole for M2 screw Any With through-hole for M2 screw Lable with plug Berwith plug With through-hole for M2 screw Lable with plug Storage with plug Any Over place place with plug Methous place with plug Any Methous place with plug Any Methous place with plug None Any Methous place with plug Any Storage Port pattern HP Slace Liquid media Gaseous media Doserve resistance of materials that come into contact with media Maximum particle size 5 µm Anximum particle size 5 µm Observe resistance of materials that come into contact with media Gaseous media Oo C 50 °C C 50 °C Oo C 50 °C Temperature of medium Oo °C 50 °C Temperature of medium Oo °C 50 °C Temperature of medium Oo °C 50 °C Temperature of materials that come into contact with media Maximum particle size 5 µm Anximum particle size	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 Flange Heldium 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 70 °C Medium pressure O.075 MPa 0.1 MPa Medium pressure Overload pressure Overload pressure Overload pressure Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations	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 Information on medium 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 -0.075 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 43.5 psi Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations -5 % / +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 Overload pressure 0.3 MPa Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations	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 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 Medium pressure -0.075 MPa 0.1 MPa Medium pressure -0.75 bar 1 bar Medium pressure 0.3 MPa Overload pressure 0.3 MPa Overload pressure 43.5 psi DC operating voltage range 12 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 0.3 MPa Overload pressure 3 bar Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations	Type of mounting	With through-hole for M2 screw
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 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 12 V Permissible voltage fluctuations -5 % / +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 12 V Permissible voltage fluctuations -5 % / +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 12 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 12 V Permissible voltage fluctuations -5 % / +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 range12 VPermissible voltage fluctuations-5 % / +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 12 V Permissible voltage fluctuations -5 % / +10 %	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 12 V Permissible voltage fluctuations -5 % / +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 12 V Permissible voltage fluctuations -5 % / +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 12 V Permissible voltage fluctuations -5 % / +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 -5 % / +10 %	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 12 V Permissible voltage fluctuations -5 % / +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 12 V Permissible voltage fluctuations -5 % / +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 12 V Permissible voltage fluctuations -5 % / +10 %	Medium pressure	-0.75 bar 1 bar
Overload pressure 3 bar Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations -5 % / +10 %	Medium pressure	-10.875 psi 14.5 psi
Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations -5 % / +10 %	Overload pressure	0.3 MPa
DC operating voltage range 12 V Permissible voltage fluctuations -5 % / +10 %	Overload pressure	3 bar
Permissible voltage fluctuations -5 % / +10 %	Overload pressure	43.5 psi
	DC operating voltage range	12 V
Coil characteristics 12 V DC: low-current phase 1 W, high-current phase 3.7 W	Permissible voltage fluctuations	-5 % / +10 %
	Coil characteristics	12 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