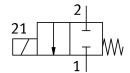
Media separated solenoid valve VYKB-F10-M22C-16-PF-5HPA Part number: 8122803

FESTO





Data sheet

Rocker valve with diaphragm seal Sealing principle Materials in contact with the media FPPM PEEK Valve function 2/2, closed, monostable Nominal width 1.6 mm Flow direction Non-reversible Actuation type Electrical Type of control Reset method Mechanical spring Manual override None Mounting position Any Type of mounting With through-hole for M2 screw Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Size 10 Flange 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 fledid media 0 °C50 °C Medium pressure -0.75 bar1 bar -1.0.875 psi14.5 psi Overload pressure	Feature	Value
Materials in contact with the media FFPM PEEK Valve function 2/2, closed, monostable 1.6 mm Non-reversible Actuation type Electrical Direct Reset method Mechanical spring Manual override Mounting position Type of mounting Electrical connection 1, connection type Cable with plug Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1 Size 10 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 ilquid media O °C50 °C Ambient temperature Estorage temperature -0.075 MPA0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi Overload pressure	Structural design	
PEEK Valve function 2/2, 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 medium 0 °C50 °C Ambient temperature 0 °C50 °C Medium pressure -0.075 MPa0.1 MPa -0.75 bar 1 bar -10.875 psi14.5 psi Overload pressure Overload pressure	Sealing principle	Soft
Nominal width 1.6 mm Non-reversible 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 technology 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 Imperature of medium O °C50 °C Ambient temperature O °C50 °C Medium pressure Overload pressure	Materials in contact with the media	
Flow direction Actuation type Electrical Type of control Reset method Mechanical spring Manual override Mounting position Any Type of mounting Electrical onnection 1, connection type Electrical onnection 1, connection type Electrical spring With through-hole for M2 screw Electrical onnection 1, connection type Electrical spring 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 °C50 °C Temperature of fliquid media 0 °C50 °C Ambient temperature 0 °C70 °C Medium pressure -20 °C70 °C Medium pressure -0.075 MPa0.1 MPa -0.75 bar 1 bar -10.875 psi14.5 psi Overload pressure 0.3 MPa 3 bar 43.5 psi	Valve function	2/2, closed, monostable
Actuation type Electrical Type of control Reset method Mechanical spring Manual override Mounting position Any Type of mounting Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology For t 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 °C50 °C Temperature of liquid media 0 °C50 °C Ambient temperature 0 °C50 °C Medium pressure -20 °C70 °C Medium pressure 0.3 MPa -0.75 bar 0 1 MPa -0.75 bar 0 1 MPa -0.75 bar 1 bar -10.875 psi 14.5 psi Overload pressure 0.3 MPa 3 bar 43.5 psi	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 Port pattern HP Size 10 Flunge Huid connector Flunge 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 O° C50 °C Temperature of liquid media Ambient temperature O° C50 °C Storage temperature O° C50 °C Storage temperature O° C50 °C Medium pressure O° C50 °C Overload pressure	Flow direction	Non-reversible
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 medium 0 °C50 °C Temperature of liquid media Ambient temperature 0 °C50 °C Storage temperature 0 °C70 °C Medium pressure -20 °C70 °C Medium pressure -0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi Overload pressure 3 bar 43.5 psi	Actuation type	Electrical
Manual override Mounting position Any 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 Temperature of medium O°	Type of control	Direct
Mounting position Any Type of mounting With through-hole for M2 screw Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Flange Medium Uiquid 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 Storage 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	Reset method	Mechanical spring
Type of mounting With through-hole for M2 screw Cable with plug Electrical connection 1, connection type 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 Temperature of medium O° C50 °C Temperature of liquid media O° C50 °C Ambient temperature O° C70 °C Medium pressure Over70 °C Medium pressure Over75 bar1 bar -10.875 psi14.5 psi Overload pressure O3 MPa 3 bar 43.5 psi	Manual override	None
Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Medium Eliquid 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 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	Mounting position	Any
Electrical connection 1, connection technology 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 °C50 °C Temperature of liquid media 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	With through-hole for M2 screw
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°C50 °C Temperature of liquid media 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 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°C50°C Temperature of liquid media 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 technology	Port pattern HP
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°C50°C Temperature of liquid media 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 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 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	Fluid connector	Flange
Internal volume35 μlTemperature of medium0 °C50 °CTemperature of liquid media0 °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	
Temperature of medium 0 °C50 °C Temperature of liquid media 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	Information on medium	
Temperature of liquid media 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	Temperature of medium	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	Temperature of liquid media	0 °C50 °C
-0.075 MPa0.1 MPa -0.75 bar1 bar -10.875 psi14.5 psi Overload pressure 0.3 MPa 3 bar 43.5 psi	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
DC operating voltage range 12 V	Overload pressure	3 bar
	DC operating voltage range	12 V

Feature	Value
Permissible voltage fluctuations	-5 % / +10 %
Coil characteristics	12 V DC: low-current phase 1 W, high-current phase 3.7 W
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
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