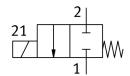
Media separated solenoid valve VYKB-F10-M22C-16-PF-5HPA

FESTO

Part number: 8122803





Data sheet

General operating condition

| Electrical connection at side Rocker valve with diaphragm seal | Feature | Value |
|--|--|--|
| Sealing principle Materials in contact with the media FFPM 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 Type of mounting With through-hole for M2 screw Electrical connection 1, connection type Electrical connection 1, connection type Electrical connector Flange Medium Liquid media Gaseous media Information on medium One consection Maximum particle size 5 µm Internal volume 35 µl Temperature of inquid media One consection Flange Medium pressure One consection Ambient temperature One consection Medium pressure One consection One cons | Structural design | |
| Materials in contact with the media FFPM PEEK Valve function 2/2, closed, monostable Nominal width 1.6 mm Flow direction Non-reversible Actuation type Electrical Direct Reset method Mechanical spring Manual override None Mounting position Any Type of countrol Electrical onnection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP 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 medium 0 °C 50 °C Temperature of ilquid media 0 °C 50 °C Storage temperature 0 °C 50 °C Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.075 MPa 0.1 MPa Medium pressure 0.087 psi 14.5 psi Overload pressure 0.087 μs jsi 12 V Permissible voltage fluctuations - 5 % / +10 % | | Rocker valve with diaphragm seal |
| PEEK 2/2, closed, monostable Nominal width 1.6 mm | Sealing principle | Soft |
| 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 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 O°C50 °C Ambient temperature Medium pressure O.075 MPa 0.1 MPa Medium pressure O.075 MPa 0.1 MPa Medium pressure O.075 Mpa 0.1 MPa Medium pressure O.3 MPa Medium pressure O.3 MPa Medium pressure O.3 MPa Medium pressure O.3 MPa Medium pressure O.435 psi 14.5 psi Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations | Materials in contact with the media | |
| 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 Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector Flange Medium Cliquid 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 0°C50°C Storage temperature 0°C50°C Medium pressure 0.0.75 MPa0.1 MPa Medium pressure 0.0.75 bar 1 bar Medium pressure 0.0.75 bar 1 bar Medium pressure 0.3 MPa Overload pressure 0.3 MPa Overload pressure 4.3.5 psi DC operating voltage range 12 V Permissible voltage fluctuations -5 % / +10 % | N. 1. 6 | 100000 |
| Flow direction Non-reversible 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 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 Ambient temperature Storage temperature 0 °C 50 °C Medium pressure 0 °C . | | |
| 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 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 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 Overload pressure 0.3 MPa Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations | | |
| 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 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 0°C50°C Ambient temperature 0°C50°C Storage temperature 0°C50°C Medium pressure 0.0.75 MPa 0.1 MPa Medium pressure 0.75 bar 1 bar Medium pressure 0.3 MPa Medium pressure 0.3 MPa Overload pressure 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations 1.50°C 55°C 12 Comperating voltage fluctuations 12 V | | |
| Reset method Mechanical spring Manual override None Mounting position Type of mounting Electrical connection 1, connection type Electrical connection 1, connection technology Port pattern HP Size 10 Fluid connector 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 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 0.075 MPa 0.1 MPa Medium pressure 0.3 MPa Medium pressure 0.43.5 psi Overload pressure 0.45.5 psi DC operating voltage range 12 V Permissible voltage fluctuations | * | |
| 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 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 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 43.5 psi DC operating voltage range 12 V Permissible voltage fluctuations | 7.7 | 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 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 tar Medium pressure 0.3 MPa 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 % | | 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 Storage temperature 0 °C 50 °C Storage temperature -20 °C 70 °C Medium pressure Medium pressure Medium pressure 10.875 psi 14.5 psi Overload pressure 0 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 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 % | | Any |
| 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 Ambient temperature 0° C 50 ° C Storage temperature 20° C 70° C 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 12 V Permissible voltage fluctuations Port pattern HP 10 10 10 10 10 10 10 10 10 1 | 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 |
| MediumLiquid media Gaseous mediaInformation on mediumObserve resistance of materials that come into contact with media Maximum particle size 5 μmInternal 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 % | 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 -0.075 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 % | 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 -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 % | 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 | 00997351 |
| 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 |