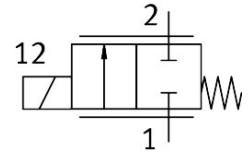


Proportional directional control valve VPWS-1.5-B-6-PC15-8-V

FESTO

Part number: 8074075



 [General operating condition](#)

Data sheet

| Feature | Value |
|---------------------------------------------------------|--------------------------------------------------------------------------------------|
| Nominal width | 1.5 mm |
| Actuation type | Electrical |
| Sealing principle | Soft |
| Mounting position | Any |
| Structural design | Directly controlled poppet valve |
| Reset method | Mechanical spring |
| Type of control | Direct |
| Flow direction | Non-reversible |
| Symbol | 00995954 |
| Valve function | 2/2 proportional directional control valve, closed |
| Operating pressure | 0 MPa ... 0.8 MPa |
| Operating pressure | 0 bar ... 8 bar |
| Nominal operating pressure | 0.8 MPa |
| Nominal operating pressure | 8 bar |
| Nominal operating pressure | 116 psi |
| Burst pressure | 3 MPa |
| Burst pressure | 30 bar |
| Burst pressure | 435 psi |
| Standard flow rate (standardized according to DIN 1343) | 82 l/min ... 98 l/min |
| Hysteresis | 16 mA |
| Max. switching frequency | 18 Hz |
| Current regulating range | 0 mA ... 200 mA |
| Max. electrical power consumption | 2.5 W |
| Coil resistance | 60.5 Ohm |
| Duty cycle | 100% (see operating instructions) |
| Frequency PWM control | >3 kHz |
| Voltage PWM control | 24 V |
| Note on PWM control | The permissible current range must not be exceeded when using PWM. |
| Oxygen suitability according to standard | ISO 15001 |
| Biocompatibility according to standard | ISO 18562 |
| Impurity level, hydrocarbons maximum | 550 mg/m ² |
| Vibration resistance | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Note on vibration resistance | Oscillation in the Z-direction can lead to flow fluctuation |
| Shock resistance | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 |

| Feature | Value |
|------------------------------------------------|----------------------------------------------------------------------------|
| Note on shock resistance | A shock in the Z-direction can lead to flow fluctuation |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Medium | Inert gas Air Oxygen |
| Information on medium | Operation with oil lubrication not possible Maximum particle size 10 µm |
| Temperature of medium | 5 °C ... 50 °C |
| Degree of protection | IP60 |
| Note on degree of protection | In mounted state |
| Ambient temperature | 5 °C ... 50 °C |
| Storage temperature | -40 °C ... 80 °C |
| Product weight | 23 g |
| Electrical connection 1, connection type | Cable |
| Electrical connection 1, connection technology | Open end |
| Electrical connection 1, number of pins/wires | 2 |
| Cable length | 0.07 m ... 0.08 m |
| Type of mounting | On sub-base Plug-in With accessories |
| Pneumatic connection 1 | Cartridge 15 mm |
| Pneumatic connection 2 | Cartridge 7.2 mm |
| Note on materials | RoHS-compliant |
| Seals material | FPM |
| Housing material | High-alloy steel |