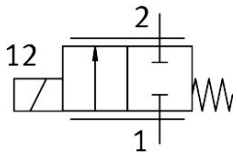
Proportional directional control valve
VPWS-0.3-B-6-PC8-10-V

Part number: 8186784





Data sheet

Feature	Value
Nominal size	0.3 mm
Type of actuation	Electrical
Sealing principle	Soft
Mounting position	Any
Design	Directly actuated poppet valve
Type of reset	Mechanical spring
Type of piloting	Direct
Flow direction	Non-reversible
Valve function	2/2 proportional directional control valve, closed
Operating pressure	0 MPa...1 MPa 0 bar...10 bar
Nominal operating pressure	1 MPa 10 bar 145 psi
Burst pressure	3 MPa 30 bar 435 psi
Standard flow rate (standardised to DIN 1343)	6.6 l/min...8 l/min
Hysteresis	14 mA
Max. switching frequency	25 Hz
Current regulating range	0 mA...70 mA
Max. electrical power consumption	1.5 W
Coil resistance R20	308 Ohm
Duty cycle	100% (see operating instructions)
Frequency PWM control	5 kHz
Voltage PWM control	32 V
Note on PWM control	The permissible current range must not be exceeded when using pulse-width modulation.
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Note on vibration resistance	Oscillation in the Z direction can lead to fluctuations in the flow rate
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Note on shock resistance	A shock in the Z-direction can lead to fluctuations in the flow rate

Feature	Value
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Medium	Inert gases Air
Note on the medium	Lubricated operation not possible Maximum particle size 10 µm
Media temperature	5 °C...50 °C
Degree of protection	IP60
Note on degree of protection	IP65 with suitable plug In mounted state
Ambient temperature	5 °C...50 °C
Storage temperature	-40 °C...80 °C
Product weight	5 g
Electrical connection 1, connection type	Cable
Electrical connection 1, connector system	Open end
Electrical connection 1, number of connections/cores	2
Cable length	70 mm...80 mm
Type of mounting	On sub-base Plug-in With accessories
Pneumatic connection, port 1	Cartridge 8 mm
Pneumatic connection, port 2	Cartridge 5.8 mm
Note on materials	RoHS compliant
Material seals	Fluoro rubber
Material housing	High-alloy steel