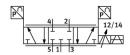
Proportional directional control valve VPWP-4-

FESTO

Part number: 550170





General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Nominal width	4 mm
Actuation type	Electrical
Sealing principle	Hard
Mounting position	Any Preferably horizontal (display elements facing upwards); if the pneumatic valve is moved, it must be mounted at right angles to the direction of movement
Structural design	with integrated pressure sensors
Reset method	Magnetic spring
Safety instructions	VPWP safety position: the blocked mid-position is approached in case of a control interface malfunction.
Type of control	Direct
Flow direction	Non-reversible
Symbol	00992136
Valve function	5/3 proportional directional control valve, closed
Status indications	LED yellow = PL (power load) LED green = power LED red = error
Operating pressure	0 MPa 1 MPa
Operating pressure	0 bar 10 bar
Operating pressure for positioning/soft stop	4 bar 8 bar
Nominal operating pressure	0.6 MPa
Nominal operating pressure	6 bar
Nominal operating pressure	87 psi
Standard nominal flow rate	350 l/min
Nominal operating voltage DC	24 V
DC operating voltage range	18 V 30 V
Load voltage range DC	18 V 30 V
Max. load current at voltage output	500 mA
Max. load current of the digital output	500 mA
Max. current consumption, valve drive	1.2 A
Logic max. current consumption	0.15 A
Nominal voltage DC	24 V
Supply voltage of the digital output	24 V load voltage
Supply voltage of the voltage output	24 V load voltage
Certification	RCM compliance mark

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive
	as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
OKCA marking (see declaration of conformity)	acc. to UK EX instructions
	To UK RoHS instructions
Explosion prevention and protection	Zone 2 (ATEX)
ATEX category gas	II 3G
Type of ignition protection for gas	Ex nA IIC T5 X Gc
Explosive ambient temperature	0°C <= Ta <= +50°C
Operating medium	Compressed air as per ISO 8573-1:2010 [6:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	0 °C 50 °C
Degree of protection	IP65 In mounted state
Ambient temperature	0 °C 50 °C
Product weight	776 g
Pressure resolution	0.01 bar
Linearity error FS	<1.5 %
Repetition accuracy FS	<1 %
Design of the 24 V voltage output	Reverse supply without destruction
	No galvanic isolation Short circuit-proof
	Reverse supply without destruction
Digital output design	as per IEC 61131-2
	Positive logic (PNP) No galvanic isolation
	Short circuit-proof
	Reverse supply without destruction
Control interface	Digital
	CAN bus with Festo protocol Terminating resistor integrated
Fieldbus interface electrical connection IN	Plug
Treidibus interface electrical conflection in	M9
	5-pin
Fieldbus interface electrical connection OUT	Socket
	M9 5-pin
Fieldbus interface electrical connection	Socket
	M8
	4-pin
Type of mounting	With through-hole With accessories
Color of connections	Connection 2: blue Connection 4: black
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Cover material	PA-reinforced
Housing material	Anodized