

Valve manifold CPV18-VI

Part number: 18220

FESTO



Data sheet

Feature	Value
Electrical actuation	AS-Interface CPI installation system Individual connection Fieldbus Multi-pin
Electrical I/O system	yes
Valve terminal type	10
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Temperature of medium	-5 °C...50 °C
Ambient temperature	-5 °C...50 °C
Storage temperature	-20 °C...40 °C
Degree of protection	IP65
Corrosion resistance class (CRC)	1 - Low corrosion stress 2 - Moderate corrosion stress
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Information on operating pressure	0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot air
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
LABS (PWIS) conformity	VDMA24364-B1/B2-L
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 acc. to UK EX instructions To UK RoHS instructions
KC characters	KC EMC
Certification	RCM compliance mark c UL us - Recognized (OL)
Explosion prevention and protection	Class I, Div. 2 (US) Zone 2 (ATEX) Zone 2 (UKEX)
ATEX category gas	II 3G

Feature	Value
Explosion protection certification outside the EU	EPL Gc (GB) NEC 500 Class I, Div. 2
Type of ignition protection for gas	Ex ec IIC T4 Gc X
Explosive ambient temperature	-5°C ≤ Ta ≤ +50°C
Note on materials	RoHS-compliant
Valve manifold design	Fixed grid
Max. no. of valve positions	8
Max. no. of valve functions	16
Max. no. of pressure zones	2
Actuation type	Electrical
Valve function	2x2/2 closed, monostable 2x2/2, open/closed, monostable 2x3/2, closed, monostable 2x3/2, open, monostable 2x3/2, open/closed, monostable 5/2, bistable 5/2, monostable Vacuum generator Vacuum generator + 2/2, closed, monostable
Structural design	Piston gate valve
Sealing principle	Soft
Valve size	18 mm
Pilot air supply port	External Internal
Max. standard nominal flow rate	1600 l/min at 18 mm
Width	18 mm
Suitability for vacuum	yes
Pneumatic working port	G1/4 QS-8 QS-10
Pneumatic connection 1	Common port
Pneumatic connection 2	G1/4
Pneumatic connection 3	Common port
Pneumatic connection 4	G1/4
Pilot air port 12/14	Common port
Pilot exhaust air port 82/84	Common port
Signal status display	LED
Nominal operating voltage DC	24 V