

# Valve unit

## VPCB-6-L-8-G38-10-F-D3-T22

FESTO

Part number: 5318141



 General operating condition

### Data sheet

Feature	Value
Valve function	3-way proportional pressure regulator
Design	Piston gate valve With integrated pressure sensors
Type of piloting	Direct
Type of actuation	Electrical
Type of reset	Magnetic spring
Flow direction	Non-reversible
Mounting position	Any
Sealing principle	Hard
Nominal size	6 mm
Short circuit current rating	Yes
Display type	LED
Standard nominal flow rate (standardised to DIN 1343)	725 l/min
Operating pressure	0.4 MPa ... 0.8 MPa
Operating pressure	4 bar ... 8 bar
Typical lowering speed	15 mm/s
Information on lowering speed	When the manual exhaust is actuated with cylinder diameter 80 mm, transmission ratio 1:1 and 100 kg load.
Ambient temperature	0 °C ... 50 °C
Operating medium	Compressed air to ISO 8573-1:2010 [6:4:4]
Note on operating and pilot medium	Maximum particle size 5 µm
Degree of protection	IP65
Note on degree of protection	In mounted state
Approval	RCM
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS compliant
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	1 - Low corrosion stress
Instructions on use	The product is suitable for industrial purposes only. Measures to eliminate radio interference may be required in residential areas.
Nominal operating voltage DC	24 V

Feature	Value
Operational voltage range DC	21.6 V ... 26.4 V
Residual ripple	5%
Max. current consumption	1.2 A
Current consumption	120 mA
Reverse polarity protection	For operating voltage
Duty cycle	100%
Max. electrical power consumption	33.5 W
Diagnostic function	Display via LED
Max. cable length	30 M
Field bus, connection type	Plug
Field bus, connection system	M12x1, A-coded according to EN 61076-2-101
Field bus, connection pattern	5
Field bus, protocol	CAN bus with Festo protocol
Electrical connection for drive, connection type	Socket
Electrical connection for drive, connection technology	M12x1, A-coded to EN 61076-2-101
Electrical connection for drive, number of pins/wires	8
Electrical connection for valve, connection type	Plug
Electrical connection for valve, connection technology	Plug pattern type C to industry standard, 9.4 mm
Electrical connection for valve, number of pins/wires	2
Type of mounting	Direct mounting via M5 thread
Pneumatic connection, port 1	G3/8
Pneumatic connection, port 2	G3/8
Pneumatic connection, port 3	G3/8
Pneumatic connection for control component	G1/8
Product weight	1550 g
Material housing	Anodised wrought aluminium alloy
Material seals	Fluoro rubber HNBR NBR