

Valve terminal VTEP-

Part number: 8176050

FESTO



Data sheet

Feature	Value
Valve manifold design	Fixed grid
Width dimension	16 mm
Max. no. of valve positions	5
Dimensions W x L x H	119 mm x 110 mm x 82 mm 71 mm x 110 mm x 82 mm 87 mm x 110 mm x 82 mm
Application note	The product is suitable for industrial purposes only. Radio interference suppression measures may be required in residential areas. For indoor use only
Max. no. of pressure zones	1
Degree of protection	IP20
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Metals with more than 5% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 3 according to ISO 14644-1
Contamination level	2
Note on materials	RoHS-compliant
Seals material	NBR
Material fire test	UL94 HB
Nominal altitude of use above sea level	< 3000 m NHN
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Oxygen
Inlet pressure 1 MPa	0 MPa...0.7 MPa
Inlet pressure 1	0 bar...7 bar
Inlet pressure 1 psi	0 psi...101.5 psi
Inlet pressure 3	-0.1 MPa...0 MPa -1 bar...0 bar -14.5 psi...0 psi
Operating pressure	0.2 MPa...0.7 MPa 2 bar...7 bar 29 psi...101.5 psi
Pressure regulation range MPa	-0.1 MPa...0.6 MPa

Feature	Value
Pressure regulation range	-1 bar...6 bar
Pressure regulation range psi	-14.5 psi...87 psi
Burst pressure	2.1 MPa 21 bar 304.5 psi
Valve function	3-way proportional pressure control valve closed
Actuation type	Electrical
Sealing principle	Soft
Standard flow rate	18 l/min...42 l/min
Flow direction	Non-reversible
Suitability for vacuum	yes
Reverse polarity protection	for all electrical connections
Display type	LED
Setpoint input	Digital
Fieldbus interface, connection type	2x socket
Fieldbus interface, connection technology	RJ45
Fieldbus interface, protocol	EtherCAT
Electrical connection 1, function	Power supply
Electrical connection 1, connection type	Socket
Electrical connection 1, connection technology	Terminal strip
Electrical connection 1, number of pins/wires	3
Electrical connection 1, conductor cross section	0.2 mm ² ...1.5 mm ²
Electrical connection 2, function	Digital input
Electrical connection 2, connection type	Socket
Electrical connection 2, connection technology	Terminal strip
Electrical connection 2, number of pins/wires	2
Electrical connection 2, conductor cross section	0.2 mm ² ...1.5 mm ²
Overvoltage category	II
Nominal operating voltage DC	24 V
DC operating voltage range	20.4 V...27.6 V
Protection against direct and indirect contact	PELV
Max. electrical power consumption	6 W
Residual ripple	± 10%
Buffer time for voltage failure of logic supply	10 ms
Certification	RCM compliance mark
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Storage temperature	-20 °C...60 °C
Temperature of medium	5 °C...50 °C
Ambient temperature	5 °C...50 °C
Relative air humidity	5 - 85 % Non-condensing
Climatic category	3K22 as per EN 60721
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Linearity	0.4 %FS...0.9 %FS
Hysteresis	0.4 %FS...0.5 %FS
Reproducibility	0.3 %FS...0.4 %FS
Overall accuracy	0.65 %FS 1.1 %FS

Feature	Value
Pneumatic connection 2	for pneumatic tubing outside diameter 4 mm
Pneumatic connection 4	for tubing O.D. 4 mm
Pneumatic connection 1	for pneumatic tubing outside diameter 8 mm
Pneumatic connection 3	for tubing O.D. 8 mm