

Valve terminal VTEP-

Part number: 8176050

FESTO



Data sheet

Feature	Value
Valve terminal structure	Fixed grid
Grid dimension	16 mm
Max. number 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
Instructions on use	The product is suitable for industrial purposes only. Measures to eliminate radio interference may be required in residential areas. For indoor use only
Max. number 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
Pollution degree	2
Note on materials	RoHS-compliant
Material seals	NBR
Fire test material	UL94 HB
Nominal altitude of use	< 3000 m NHN
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases Oxygen
Inlet pressure 1	0 MPa...0.7 MPa 0 bar...7 bar 0 psi...101.5 psi
Input 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

Feature	Value
Pressure regulation range	-0.1 MPa...0.6 MPa -1 bar...6 bar -14.5 psi...87 psi
Burst pressure	2.1 MPa 21 bar 304.5 psi
Valve function	3-way proportional-pressure regulator, closed
Type of actuation	Electric
Sealing principle	Soft
Standard flow rate (standardised to DIN 1343)	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 value input	Digital
Field bus, connection type	2x socket
Field bus, connection system	RJ45
Field bus, protocol	EtherCAT®
Electrical connection 1, function	Power supply
Electrical connection 1, connection type	Socket
Electrical connection 1, connector system	Terminal strip
Electrical connection 1, number of connections/cores	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, connector system	Terminal strip
Electrical connection 2, number of connections/cores	2
Electrical connection 2, conductor cross section	0.2 mm ² ...1.5 mm ²
Overvoltage category	II
Nominal operating voltage DC	24 V
Operational voltage range DC	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
Approval	RCM trademark
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 instructions for EMC To UK RoHS instructions
Corrosion resistance class CRC	2 - Moderate corrosion stress
Storage temperature	-20 °C...60 °C
Media temperature	5 °C...50 °C
Ambient temperature	5 °C...50 °C
Relative air humidity	5 - 85 % Non-condensing
Climatic category	3K22 to EN 60721
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
Linearity	0.4 %FS...0.9 %FS
Hysteresis	0.4 %FS...0.5 %FS
Reproducibility	0.3 %FS...0.4 %FS

Feature	Value
Total accuracy	0.65 %FS 1.1%FS
Pneumatic connection, port 2	For tubing outside diameter of 4 mm
Pneumatic connection, port 4	For tubing O.D. 4 mm
Pneumatic connection, port 1	For tubing outer diameter of 8 mm
Pneumatic connection, port 3	For tubing O.D. 8 mm