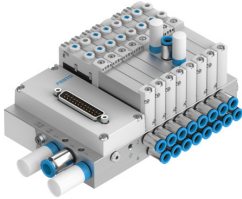


Valve terminal VTUG-F1A

Part number: 8143237

FESTO



Data sheet

Feature	Value
Electrical control	AP interface I-Port IO-Link® Multi-pin plug
Electrical I/O system	no
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Media temperature	-5 °C...60 °C
Ambient temperature	-5 °C...60 °C
Storage temperature	-10 °C...60 °C
Degree of protection	IP40
Corrosion resistance class CRC	2 - Moderate corrosion stress
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
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Pilot pressure	0.15 MPa...0.8 MPa 1.5 bar...8 bar
Operating pressure for valve terminal with internal pilot air supply	0.15 MPa...0.8 MPa 1.5 bar...8 bar 21.75 psi...116 psi
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 5 according to ISO 14644-1
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

Feature	Value
Approval	RCM trademark c UL us - Recognized (OL)
Certificate issuing authority	UL MH19482
Note on materials	RoHS-compliant
Material seals	HNBR NBR
Valve terminal structure	Fixed grid
Max. number of valve positions	24
Max. number of pressure zones	13
Type of actuation	Electric
Valve function	2x3/2-way, monostable, closed 2x3/2-way, open, monostable 2x3/2-way, open/closed, monostable 3/2-way, closed, monostable 3/2 open, single solenoid 5/2 double solenoid 5/2-way, monostable 5/3-way, pressurised 5/3 exhausted 5/3 closed
Design	Piston gate valve
Sealing principle	Soft
Type of piloting	Pilot actuated
Valve size	10 mm 14 mm
Pilot air supply	External Internal
Max. standard nominal flow rate	330 l/min at 10 mm 630 l/min at 14 mm
Standard nominal flow rate (standardised to DIN 1343)	130 l/min...630 l/min
Suitability for vacuum	yes
Exhaust-air function	With flow control option
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
pneumatic working port	M5 M7 G1/8 QS-4 QS-6 QS-8
Pneumatic connection, port 1	G1/8 G1/4 QS-6 QS-8 QS-10 QS-12
Pilot air port 12/14	M5
Signal status display	LED
Nominal operating voltage DC	24 V
Permissible voltage fluctuations	+/- 10 % +/- 25%
Nominal pick-up current per solenoid coil	47 mA up to 20 ms
Nominal current with current reduction	15.5 mA after 20 ms