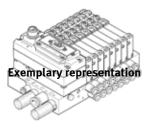
## valve terminal VTUG-F1A Part number: 8143237





## **Data sheet**

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Electrical connection	Multi-pin plug
	I-Port
	IO-Link
	AP interface
Electrical I/O system	No
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Medium temperature	-5 60 °C
Ambient temperature	-5 60 °C
Storage temperature	-10 60 °C
Protection class	IP40
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Operating pressure MPa	-0.09 1 MPa
Operating pressure	-0.9 10 bar
Pilot pressure MPa	0.15 0.8 MPa
Pilot pressure	1.5 8 bar
Operating pressure for valve terminal with internal pilot air supply	0.15 0.8 MPa
	1.5 8 bar
	21.75 116 psi
PWIS conformity	VDMA24364 zone III
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 6
CE mark (see declaration of conformity)	to EU directive for EMC
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
Authorisation	RCM Mark
	c UL us - Recognized (OL)
Certificate issuing department	UL MH19482
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Valve terminal structure	Fixed-grid
Max. number of valve positions	24
Max. no. of pressure zones	13
Type of actuation	electrical
Valve function	2x3/2 closed, monostable
	2x3/2 open, monostable



Feature	Value
	2x3/2 open/closed, monostable
	3/2 closed, monostable
	3/2 open, monostable
	5/2 bistable
	5/2 monostable
	5/3 pressurised
	5/3 exhausted
	5/3 closed
Design structure	Piston slide
Sealing principle	soft
Type of piloting	Piloted
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	130 630 l/min
Suitability for vacuum	Yes
Exhaust-air function	throttleable
Variants	Recommended for production facilities for the manufacture of lithium-
	ion batteries
Pneumatic connection, port 1	G1/8
	G1/4
	QS-6
	QS-8
	QS-10
	QS-12
Auxiliary pilot air port 12/14	M5
Signal status display	LED
Nominal operating voltage DC	24 V
Permissible voltage fluctuation	+/- 10 %
	+/- 25 %
Nominal breakaway current per solenoid coil	47 mA up to 20 ms
Nominal current with current reduction	15.5 mA after 20 ms