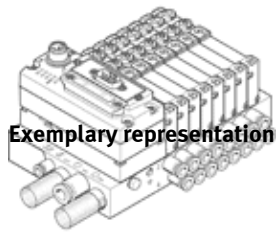


# Valve manifold VTUG-F1A

Part number: 8143237

FESTO



Exemplary representation

## 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
Working 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
Working pressure for valve manifold with internal pilot air supply	1.5 ... 8 bar
Operating pressure for valve terminal with internal pilot air supply	21.75 ... 116 psi
PWIS conformity	VDMA24364 zone III
RSBP classification to CD-0033	F1a
Cleanroom class	ISO class 6
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Authorization	RCM Mark c UL us - Recognized (OL)
Certificate issuing department	UL MH19482
Materials note	Conforms to RoHS
Material seals	HNBR NBR
Valve manifold 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 pressurized 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