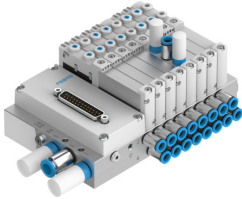


# Valve manifold VTUG-F1A

Part number: 8143237

**FESTO**



## Data sheet

Feature	Value
Electrical actuation	AP interface I-Port IO-Link® Multi-pin
Electrical I/O system	no
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Temperature of medium	-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 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
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Pilot pressure MPa	0.15 MPa...0.8 MPa
Pilot pressure	1.5 bar...8 bar
Operating pressure for valve manifold 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 Festo's internal product definition 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, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 5 according to ISO 14644-1
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

Feature	Value
Certification	RCM compliance mark c UL us - Recognized (OL)
Certificate issuing authority	UL MH19482
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Valve manifold design	Fixed grid
Max. no. of valve positions	24
Max. no. of pressure zones	13
Actuation type	Electrical
Valve function	2x3/2, closed, monostable 2x3/2, open, monostable 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
Structural design	Piston gate valve
Sealing principle	Soft
Type of control	Pilot-controlled
Valve size	10 mm 14 mm
Pilot air supply port	External Internal
Max. standard nominal flow rate	330 l/min at 10 mm 630 l/min at 14 mm
Standard nominal flow rate	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 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 to 20 ms
Nominal current with current reduction	15.5 mA after 20 ms