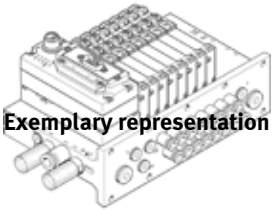
valve terminal
VTUG-EX

Part number: 8060699



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Electrical connection	Fieldbus Multi-pin plug I-Port IO-Link
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	IP20 IP65
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	1.5 ... 8 bar
PWIS conformity	VDMA24364-B2-L
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive explosion protection (ATEX) in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
Authorisation	RCM Mark c UL us - Recognized (OL)
ATEX category Gas	II 3G
ATEX category Dust	II 3D
Explosion protection certification outside the EU	Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 2 (CA) Class II, Div. 2 (US) Class III (CA) Class III (US) EPL Dc (CA) EPL Dc (CN) EPL Dc (IEC-EX)

Feature	Value
	EPL Dc (US) EPL Gc (CA) EPL Gc (CN) EPL Gc (IEC-EX) EPL Gc (US)
Explosion ignition protection type Gas	C. I, Z. 2, AEx ec IIC Gc (US) Ex ec IIC Gc (CA) Ex ec IIC T4 Gc
Explosion ignition protection type Dust	C.II, Z.22,AExtcIIICT135Dc(US) Ex tc IIIC T135 Dc (CA) Ex tc IIIC T135°C Dc
Explosion-proof ambient temperature	-5°C <= Ta <= +50°C -5°C <= Ta <= +60°C
Certificate issuing department	GYJ19.1188X IBExU16ATEXB021 X IECEx IBE 17.0003 X IECEx IBE 19.0018 X UL E198674 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 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 18 mm
Pilot air supply	external Internal
Max. standard nominal flow rate	330 l/min at 10 mm 630 l/min at 14 mm 1200 l/min at 18 mm
Standard nominal flow rate	130 ... 1,150 l/min
Suitability for vacuum	Yes
Exhaust-air function	throttleable
Pneumatic connection, port 1	G1/8 G1/4 G3/8 QS-3 QS-4 QS-6 QS-8 QS-10 QS-12 QS-16 QS-1/4

Feature	Value
	QS-5/16 QS-3/8 QS-1/2
Auxiliary pilot air port 12/14	G1/8
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