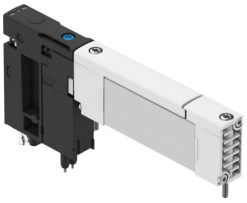
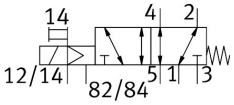
Solenoid valve
VUVX-BK10-M52-MZH-F-1T1L

Part number: 8187057





Data sheet

Feature	Value
Valve function	5/2-way, single solenoid
Type of actuation	Electrical
Valve size	10 mm
Nominal flow rate standardised according to ISO 8778	690 l/min
Operating voltage	24 V DC
Operating pressure	-0.09 MPa...0.7 MPa -0.9 bar...7 bar
Design	Piston slide with sealing ring
Type of reset	Mechanical spring
Degree of protection	IP65
Width	10.35 mm
Nominal size	4.2 mm
Exhaust-air function	Can be throttled
Sealing principle	Soft
Mounting position	Any
Manual override	Non-detenting
Type of piloting	Piloted
Pilot air supply	External Internal
Flow direction	Reversible
lap	Underlap
Signal status display	Yes
Pilot pressure	0.25 MPa...0.7 MPa 2.5 bar...7 bar
Suitability for vacuum	Yes
b value	0.36
C value	2.76 l/sbar
Nominal flow rate standardised to ISO 8778 exhaust 2-3	700 l/min
Max. switching frequency	3 Hz
Switching time off	32 ms
Switching time on	8 ms
Duty cycle	100%

Feature	Value
Max. positive test pulse with 0 signal	1400 µs
Max. negative test pulse with 1 signal	800 µs
Characteristic coil data	24 V DC: 0.35 W
Permissible voltage fluctuations	+/-10%
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas
Note on operating and pilot medium	Ester oil < 0.1mg/m³, according to ISO 8573-1:2010 [-:-:2] Lubricated operation possible (in which case lubricated operation will always be required)
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 1 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C...70 °C
Suitable for use with food	NSF H1
Media temperature	-5 °C...50 °C
Relative air humidity	5 - 95%
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas
Ambient temperature	-5 °C...50 °C
Max. tightening torque for valve mounting	0.345 Nm
Product weight	43.4 g
Electrical connection	Plug-in
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base
Pilot exhaust port 82/84	Sub-base
Pneumatic connection, port 1	Sub-base
Pneumatic connection, port 2	Sub-base
Pneumatic connection, port 3	Sub-base
Pneumatic connection, port 4	Sub-base
Pneumatic connection, port 5	Sub-base
Note on materials	RoHS compliant
Material seals	HNBR
Material dynamic seals	HNBR
Material housing	Anodised wrought aluminium alloy
Material spring	High-alloy stainless steel
Material piston slide	POM
Material screws	Stainless steel