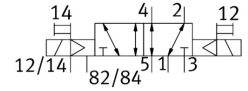


# Solenoid valve

## VUVX-BK10-B52-ZH-F-1T1L

FESTO

Part number: 8187059



[PDF](#) General operating condition

## Data sheet

Feature	Value
Valve function	5/2, bistable
Actuation type	Electrical
Valve size	10 mm
Nominal flow rate standardized according to ISO 8778	690 l/min
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 0.7 MPa
Operating pressure	-0.9 bar ... 7 bar
Structural design	Piston slide with sealing ring
Degree of protection	IP65
Width	10.35 mm
Nominal width	4.2 mm
Exhaust air function	With flow control option
Sealing principle	Soft
Mounting position	Any
Manual override	Non-detenting
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Reversible with restrictions
Symbol	00997521
Lap	Underlap
Signal status display	yes
Pilot pressure MPa	0.15 MPa ... 0.7 MPa
Pilot pressure	1.5 bar ... 7 bar
Suitability for vacuum	yes
b-value	0.36
C value	2.76 l/sbar
Nominal flow rate standardized according to ISO 8778 exhaust 2-3	700 l/min
Max. switching frequency	5 Hz
Changeover time	9 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	1400 µs
Max. negative test pulse on 1 signal	800 µs
Coil characteristics	24 V DC: 0.35 W
Permissible voltage fluctuations	+/- 10 %
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas

Feature	Value
Information on operating and pilot media	Ester oil < 0.1mg/m <sup>3</sup> , according to ISO 8573-1:2010 [-:-:2] Operation with oil lubrication possible (required for further use)
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 1 as per 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
For use in the food industry	NSF H1
Temperature of medium	-5 °C ... 50 °C
Relative air humidity	5 - 95 %
Pilot medium	Compressed air as per 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	51.9 g
Electrical connection	Plug-in
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base
Pilot exhaust air port 82/84	Sub-base
Pneumatic connection 1	Sub-base
Pneumatic connection 2	Sub-base
Pneumatic connection 3	Sub-base
Pneumatic connection 4	Sub-base
Pneumatic connection 5	Sub-base
Note on materials	RoHS-compliant
Seals material	HNBR
Material of dynamic seals	HNBR
Housing material	Wrought aluminum alloy, anodized
Material of spring	High-alloy stainless steel
Piston slide material	POM
Material of screws	Stainless steel