

# Solenoid valve

## VSVA-B-M52-MZD-D2-1T1L

FESTO

Part number: 560821



 [General operating condition](#)

## Data sheet

Feature	Value
Valve function	5/2-way, single solenoid
Type of actuation	Electrical
Construction width	52 mm
Standard nominal flow rate (standardised to DIN 1343)	2900 l/min
pneumatic working port	Sub-base size 2 to ISO 5599-2 G1/2
Operating voltage	24 V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Design	Piston gate valve
Type of reset	Mechanical spring
Approval	c UL us - Recognised (Oil)
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive
Degree of protection	IP65 NEMA 4
Grid dimension	59 mm
Exhaust-air function	Can be throttled Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Conforms to standard	ISO 5599-2
Manual override	Detenting Non-detenting
Type of piloting	Piloted
Pilot air supply	External
Flow direction	Any
Symbol	00991190
Signal status display	LED
Pilot pressure	0.3 MPa ... 1 MPa
Pilot pressure	3 bar ... 10 bar
Flow rate of valve	4000 l/min
Flow rate of valve on individual sub-base	3400 l/min
Flow rate of pneumatically interlinked valve	2900 l/min
Switching time off	60 ms
Switching time on	20 ms

Feature	Value
Duty cycle	100%
Max. positive test pulse with 0 signal	1000 µs
Max. negative test pulse with 1 signal	3500 µs
Nominal pick-up current per solenoid coil	165 mA to 30 ms
Nominal current with current reduction	35 mA after 30 ms
Characteristic coil data	24 V DC: 4.6 W
Immunity to surge	2.5 kV
Pollution degree	3
Permissible voltage fluctuations	+/-10%
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	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 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C ... 50 °C
Relative air humidity	0 - 90%
Ambient temperature	-5 °C ... 50 °C
Product weight	702 g
Electrical connection	Plug-in To ISO 5599-2
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base size 2 to ISO 5599-2
Pilot exhaust port 82/84	Ducted Not ducted as per standard Either:
Pneumatic connection, port 1	Sub-base size 2 to ISO 5599-2
Pneumatic connection, port 2	Sub-base size 2 to ISO 5599-2
Pneumatic connection, port 3	Sub-base size 2 to ISO 5599-2
Pneumatic connection, port 4	Sub-base size 2 to ISO 5599-2
Pneumatic connection, port 5	Sub-base size 2 to ISO 5599-2
Note on materials	RoHS compliant
Material seals	Fluoro rubber HNBR NBR
Material housing	Die-cast aluminium Process automation
Material screws	Galvanised steel