

Air solenoid valve VSNC-FC-M52-MD-G14-FN-1A1-EX4-A

FESTO

Part number: 577281



[PDF](#) General operating condition

Data sheet

Feature	Value
Valve function	5/2 or 3/2 switchable
Actuation type	Electrical
Width	32 mm
Normal nominal flow rate (normalized to DIN 1343)	1250 l/min
Pneumatic working port	NAMUR connection diagram
Operating voltage	24V DC
Operating pressure	0.25 MPa ... 0.8 MPa
Operating pressure	2.5 bar ... 8 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Explosion protection certification outside the EU	EPL Db (IEC-EX) EPL Ga (IEC-EX)
Certificate issuing authority	DNVGL-TAA000011J
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex ia IIC T6 Ga
Type of (ignition) protection for dust	Ex t IIIIC T80°C Db
Explosive ambient temperature	-40°C ≤ Ta ≤ +50°C
Degree of protection	IP65 With plug socket as per IEC 60529
Exhaust air function	With flow control option
Sealing principle	Soft
Mounting position	Any
Conforms to standard	VDI/VDE 3845 (NAMUR)
Manual override	Detenting Non-detenting
Type of control	Pilot-controlled
Pilot air supply port	Internal
Flow direction	Non-reversible
Symbol	00991831
Lap	Overlap
Signal status display	With accessories
b-value	0.4
C value	5.2 l/sbar
Standard nominal flow rate, exhaust air return 4→3	110 l/min
Switching time off	92 ms

Feature	Value
On switching time	35 ms
Duty cycle	100%
Max. input voltage V_i	28 V
Max. input current I_i	115 mA
Permissible voltage fluctuations	+/- 10 %
Explosion prevention and protection	Zone 0 (IEC-EX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (IEC-EX) Zone 22 (ATEX)
Operating 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)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Temperature of medium	-20 °C ... 60 °C
Ambient temperature	-20 °C ... 60 °C
Product weight	530 g
Electrical connection	as per EN 175301-803
Type of mounting	With through-hole
Venting hole connection	Not ducted
Pneumatic connection 1	G1/4
Pneumatic connection 2	NAMUR connection diagram
Pneumatic connection 3	G1/4
Pneumatic connection 4	NAMUR connection diagram
Pneumatic connection 5	G1/4
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Wrought aluminum alloy
Material of screws	Steel, galvanized