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

FESTO

Part number: 577281





General operating condition

Data sheet

Actuation type Electrical Midth 32 mm Standard nominal flow rate 1250 l/min Penumatic working port NAMUR connection diagram 24V DC 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) EVALUATION EVALUATION EVALUATION EVALUATION EVALUATION EVALUATION EVALUA	Feature	Value
Aviolation of the control of the con	Valve function	5/2 or 3/2 switchable
Standard nominal flow rate Peneumatic working port NAMUR connection diagram Decrating pressure Operating pressure Operating pressure Operating pressure 2.5 bar 8 bar Structural design Piston gate valve Explosion protection certification outside the EU EPL Db (ECC-EX) EPL Ga (ECC-EX	Actuation type	Electrical
Peneumatic working port Deperating 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 EXPLOSION protection certification outside the EU EPL Db (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EPL Ga (EC-EX) EVEN CONTROLL TANONOON11 EXTEX category gas II 2G EXTEX category for dust II 2D EX a III CT80°C Db EX a III CT80°C Db EX plosive ambient temperature -40°C (= Ta (= +50°C) EX plosive ambient temperature -4	Width	32 mm
Deperating voltage Deperating pressure O.25 MPa 0.8 MPa Deperating 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) EPL Ga (IEC-EX) EPL Ga (IEC-EX) BET L Ga (IEC-EX) EPL Ga (I	Standard nominal flow rate	1250 l/min
Operating pressure Operating pressure 2.5 bar 0.8 MPa Operating pressure 2.5 bar 0.8 bar Piston gate valve Reset method Recent method	Pneumatic working port	NAMUR connection diagram
Departing pressure 2.5 bar 8 bar Structural design Piston gate valve Mechanical spring Explosion protection certification outside the EU EPL Db (EC-EX) EPL Da (EC-EX) EPL Ga (EC-EX) Lectificate issuing authority DNVGL-TAA000011J ATEX category gas II 2G ATEX category for dust II 2D Lype of ignition protection for gas Ex ia IIC 76 Ga Exype of ignition protection for dust Ext IIIC 180°C Db Explosive ambient temperature -40°C (- Ta (- + 50°C) Degree of protection 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 Flype of control Pilot controlled Pilot controlled Pilot air supply port Internal Flow direction Non-reversible Symbol app Overlap Signal status display With accessories Do-value 0.4 Evalue 5.2 I/sbar Standard nominal flow rate, exhaust air return 4-3 a 110 I/min	Operating voltage	24V DC
Reset method Reset	Operating pressure	0.25 MPa 0.8 MPa
Reset method Explosion protection certification outside the EU EPL Db (IEC-EX) EPL Ga (IEC-E	Operating pressure	2.5 bar 8 bar
Explosion protection certification outside the EU EPL Db (IEC-EX) EPL Ga (IEC-EX) EPL Ga (IEC-EX) EX Ga (IEC-EX) EPL Ga (IEC-EX) EX IEC GoS2P EX I	Structural design	Piston gate valve
EPL Ga (IEC-EX) Certificate issuing authority DNVGL-TAA000011J ATEX category gas II 2G ATEX category for dust II 2D II 2D	Reset method	Mechanical spring
ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex ia IIC T6 Ga Ex t IIIC 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 ap Overlap Signal status display With accessories Ovalue 5 2 1/sbar Standard nominal flow rate, exhaust air return 4->3 II 2D II	Explosion protection certification outside the EU	· · · ·
ATEX category for dust Type of ignition protection for gas Ex is a IIC T6 Ga Ex t IIIC 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 Sealing principle Mounting position Any Conforms to standard VDI/VDE 3845 (NAMUR) Manual override Detenting Non-detenting Flot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol ap Overlap Signal status display Value 5.2 I/sbar Standard nominal flow rate, exhaust air return 4-33 II 2D Ex is a IIC T6 Ga Ex is a IIC T8 Ga Ex is a IIC T8 Ga Ex t IIIC T80°C Db Ext IIIC T80°C Ex is a IIC T8 Ga Ex t IIIC T80°C Db Ex is a IIC T6 Ga Ex t IIIC T80°C Db Ex t IIIC T80°C Db Ex t IIIC T80°C Do	Certificate issuing authority	DNVGL-TAA000011J
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Ext IIIC 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 Explosive ambient temperature With flow control option Sealing principle Mounting position Any Conforms to standard VDI/VDE 3845 (NAMUR) Manual override Detenting Non-detenting Ivge of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol ap Overlap Overlap Signal status display Value Standard nominal flow rate, exhaust air return 4->3 I10 1/min	ATEX category for dust	II 2D
Explosive ambient temperature -40°C <= Ta <= +50°C Degree of protection P65 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 Flot-controlled Pilot-controlled Pilot air supply port Internal Row direction Non-reversible Symbol aap Overlap Signal status display With accessories Overlue Calue Sold Sold	Type of ignition protection for gas	Ex ia IIC T6 Ga
Degree of protection P65 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 Filot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991831 Overlap Signal status display With accessories Ovalue O.4 Caulue Standard nominal flow rate, exhaust air return 4->3 IP65 With plug socket as per IEC 60529 With flow control option Soft Any Toply With flow control option Soft Any Overlap With accessories 110 I/min	Type of (ignition) protection for dust	Ex t IIIC T80°C Db
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 Flype of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol O0991831 Cap Overlap Signal status display With accessories Ovalue O.4 Caulue Standard nominal flow rate, exhaust air return 4->3 With flow control option With flow control option With flow control option Soft Any Control option Any	Explosive ambient temperature	-40°C <= Ta <= +50°C
Sealing principle Mounting position Any Conforms to standard VDI/VDE 3845 (NAMUR) Manual override Detenting Non-detenting Filot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol ap Overlap Signal status display With accessories D-value O.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 Nany Soft Any Detenting Non-detenting N	Degree of protection	With plug socket
Mounting position Conforms to standard VDI/VDE 3845 (NAMUR) Manual override Detenting Non-detenting Flow control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol O0991831 Lap Overlap Signal status display With accessories O-value O.4 C value Standard nominal flow rate, exhaust air return 4->3 Internal Intern	Exhaust air function	With flow control option
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Manual override Detenting Non-detenting Filot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991831 Lap Overlap Signal status display With accessories 0-value 0.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Mounting position	Any
Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Internal Non-reversible Symbol O0991831 Lap Overlap Signal status display With accessories O-value O.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Conforms to standard	VDI/VDE 3845 (NAMUR)
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Flow direction Non-reversible Symbol 00991831 Lap Overlap Signal status display With accessories D-value 0.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Type of control	Pilot-controlled
Symbol 00991831 Lap Overlap Signal status display With accessories D-value 0.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Pilot air supply port	Internal
Overlap Signal status display Overlap With accessories O-value O.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Flow direction	Non-reversible
Signal status display With accessories 0-value 0.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Symbol	00991831
o-value 0.4 C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Lap	Overlap
C value 5.2 l/sbar Standard nominal flow rate, exhaust air return 4->3 110 l/min	Signal status display	With accessories
Standard nominal flow rate, exhaust air return 4->3 110 l/min	b-value	0.4
·	C value	5.2 l/sbar
Switching time off 92 ms	Standard nominal flow rate, exhaust air return 4->3	110 l/min
I	Switching time off	92 ms

Feature	Value
On switching time	35 ms
Duty cycle	100%
Max. input voltage Vi	28 V
Max. input current li	115 mA
Permissible voltage fluctuations	+/- 10 %
Explosion prevention and protection	Observe the information on the certificate Zone 0 (IEC-EX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) 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	Form A 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