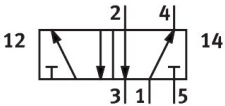


Air solenoid valve VSNC

Part number: 8026033

FESTO



General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Valve function	5/2, bistable 5/2 or 3/2 switchable 5/3, pressurized 5/3, exhausted 5/3, closed
Actuation type	Electrical
Width	32 mm
Standard nominal flow rate	800 l/min ... 1350 l/min
Pneumatic working port	NAMUR connection diagram
Operating voltage	110V AC 120V AC 12V DC 230V AC 240V AC 24V AC 24V DC 48V AC 48V DC Via solenoid coil, to be ordered separately
Operating pressure	0.15 MPa ... 1 MPa
Operating pressure	1.5 bar ... 10 bar
Structural design	Piston gate valve Plate seat
Reset method	Mechanical spring
Certification	c UL us - Recognized (OL)
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX) As per EU low voltage directive
Explosion protection certification outside the EU	Class I, Div. 1 (US) Class I, Div. 2 (US) Class II, Div. 1 (US) Class II, Div. 2 (US) Class III, Div. 1 (US) Class III, Div. 2 (US) EPL Da (IEC-EX) EPL Db (IEC-EX) EPL Db (KR) EPL Dc (KR) EPL Ga (IEC-EX) EPL Ga (KR) EPL Gb (IEC-EX) EPL Gb (KR) EPL Gc (KR)

Feature	Value
Certificate issuing authority	DNVGL-TAA000011J IECEX BVS 15.0020X IECEX BVS 15.0075X
ATEX category gas	II 2G II 3G
ATEX category for dust	II 2D II 3D
Type of ignition protection for gas	AEx m II T4 Ex db IIC T4 Gb Ex db IIC T5 Gb Ex ia IIC T6 Ga Ex ia IIC T6...T5 Ga Ex mb IIC T6 Ex nA IIC T5 X Gc
Type of (ignition) protection for dust	Ex mb tb IIIC T80°C Ex t IIIC T80°C Db Ex tb IIIC T100°C Db Ex tb IIIC T135°C Db Ex tc IIIC T95°C X Dc
Explosive ambient temperature	-20°C ≤ Ta ≤ +50°C -20°C ≤ Ta ≤ +60°C -40°C ≤ Ta ≤ +50°C -40°C ≤ Ta ≤ +65°C -65°C ≤ Ta ≤ +40°C -65°C ≤ Ta ≤ +55°C T4, T130°C: -20°C ≤ Ta ≤ +60°C T5, T95°C: -20°C ≤ Ta ≤ +60°C T5, T95°C: -30°C ≤ Ta ≤ +65°C T6, T85°C: -20°C ≤ Ta ≤ +50°C T6/T80°C: -30°C ≤ Ta ≤ +50°C
Degree of protection	IP65 IP66 IP67 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 None Non-detenting Covered
Type of control	Pilot-controlled
Pilot air supply port	Internal
Flow direction	Non-reversible
Symbol	00991005 00991018 00991021 00991080 00991082 00991083 00991728 00991831 00991953 00995701
Lap	Overlap Underlap
Signal status display	With accessories
b-value	0.4 ... 0.5
C value	2.1 l/sbar ... 5.6 l/sbar
Standard nominal flow rate, exhaust air return 4→3	110 l/min
Switching time off	6 ms ... 120 ms
On switching time	4 ms ... 35 ms

Feature	Value
Changeover time	2 ms ... 55 ms
Duty cycle	100%
Coil characteristics	110/120 V AC: 50/60 Hz, initial power 2.7 VA, holding power 1.9 VA 110/120 V AC: 50/60 Hz, initial power 4.4 VA, holding power 3.3 VA 110/120 V AC: 50/60 Hz, initial power 5.2 VA, holding power 3.1 VA 110/120 V AC: 50/60 Hz, initial power 6.9 VA, holding power 3.1 VA 110 V AC: 50/60 Hz, initial power 7.7 VA, holding power 3.8 VA 120 V AC: 60 Hz, initial power 10.0 VA, holding power 6.8 VA 12 V DC: 2.8 W 12 V DC: 3.4 W 230/240 V AC: 50/60 Hz, initial power 3.9 VA, holding power 2.8 VA 230/240 V AC: 50/60 Hz, initial power 5.8 VA, holding power 4.6 VA 230 V AC: 50/60 Hz, initial power 10.0 VA, holding power 6.0 VA 230 V AC: 50/60 Hz, initial power 11.5 VA, holding power 8.0 VA 230 V AC: 50/60 Hz, initial power 6.2 VA, holding power 3.7 VA 230 V AC: 50/60 Hz, initial power 6.9 VA, holding power 4.1 VA 24 V DC: 0.8 W 24 V DC: 2.1 W 24 V DC: 2.7 W 24 V DC: 3.3 W 24 V DC: 4.6 W 24 V AC: 50/60 Hz, initial power 2.5 VA, holding power 1.7 VA 24 V AC: 50/60 Hz, initial power 3.9 VA, holding power 2.6 VA 24 V DC: 0.7 W 24 V DC: 1.2 W 24 V DC: 2.6 W 48 V AC: 50/60 Hz, initial power 2.5 VA, holding power 1.7 VA 48 V AC: 50/60 Hz, initial power 3.9 VA, holding power 2.7 VA 48 V DC: 2.8 W 48 V DC: 3.4 W See solenoid coil, to be ordered separately
Permissible voltage fluctuations	+/- 10 %
Explosion prevention and protection	Class I, Div. 1 (US) Class I, Div. 2 (US) Class II, Div. 1 (US) Class II, Div. 2 (US) Class III, Div. 1 (US) Class III, Div. 2 (US) Zone 0 (IEC-EX) Zone 0 (KR) Zone 1 (ATEX) Zone 1 (IEC-EX) Zone 1 (KR) Zone 2 (ATEX) Zone 2 (KR) Zone 20 (IEC-EX) Zone 21 (ATEX) Zone 21 (IEC-EX) Zone 21 (KR) Zone 22 (ATEX) Zone 22 (KR)
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 VDMA24364 zone III
Temperature of medium	-20 °C ... 60 °C
Ambient temperature	-20 °C ... 60 °C
Product weight	335 g ... 685 g
Electrical connection	3-pin Form A Form B Cable connector M20x1.5 M12x1, A-coded as per EN 61076-2-101 Plug as per EN 175301-803 As per industrial standard (11 mm)
Type of mounting	With through-hole

Feature	Value
Venting hole connection	Not ducted
Pneumatic connection 1	G1/4 1/4 NPT QS-6 QS-8 QS-10 QS-1/4 QS-5/16 QS-3/8
Pneumatic connection 2	NAMUR connection diagram
Pneumatic connection 3	G1/4 1/4 NPT QS-6 QS-8 QS-10 QS-1/4 QS-5/16 QS-3/8
Pneumatic connection 4	NAMUR connection diagram
Pneumatic connection 5	G1/4 1/4 NPT QS-6 QS-8 QS-10 QS-5/16 QS-1/4 QS-3/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Wrought aluminum alloy
Material of screws	Steel, galvanized