

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-way, double solenoid 5/2-way or 3/2-way, convertible 5/3-way, pressurised 5/3 exhausted 5/3-way, closed
Type of actuation	Electrical
Construction width	32 mm
Standard nominal flow rate (standardised to DIN 1343)	800 l/min ... 1350 l/min
pneumatic working port	Connection pattern to NAMUR
Operating voltage	110V AC 120V AC 12 V DC 230V AC 240V AC 24V AC 24 V DC 48V AC 48 V DC Via solenoid coil, must be ordered separately
Operating pressure	0.15 MPa ... 1 MPa
Operating pressure	1.5 bar ... 10 bar
Design	Piston gate valve Poppet seat
Type of reset	Mechanical spring
Approval	c UL us - Recognised (Oil)
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX) To 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 (IECEX) EPL Gb (KR) EPL Gc (KR)

Feature	Value
Certificate issuing authority	BVS 15ATEXE029X BVS 15ATEXE030X DNV 15.0189X/02 DNVGL-TAA000011J IECEX BVS 15.0020X IECEX BVS 15.0075X
ATEX category gas	II 2G II 3G
ATEX category dust	II 2D II 3D
Explosion ignition protection type for gas	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 Gb Ex nA IIC T5 X Gc
Explosion ignition protection type for dust	Ex tc IIIC T95°C X Dc
Explosion ambient temperature	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 To IEC 60529
Exhaust-air function	Can be throttled
Sealing principle	Soft
Mounting position	Any
Conforms to standard	VDI/VDE 3845 (NAMUR)
Manual override	Detenting None Non-detenting Concealed
Type of piloting	Piloted
Pilot air supply	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 return 4→3	110 l/min
Switching time off	6 ms ... 120 ms
Switching time on	4 ms ... 35 ms
Switching time reversal	2 ms ... 55 ms
Duty cycle	100%

Feature	Value
Characteristic coil data	12 V DC: 2.8 W 12 V DC: 3.4 W 230/240 V AC: 50/60 Hz, pick-up power 3.9 VA, holding power 2.8 VA 230/240 V AC: 50/60 Hz, pick-up power 5.8 VA, holding power 4.6 VA 230 V AC: 50/60 Hz, pick-up power 10.0 VA, holding power 6.0 VA 230 V AC: 50/60 Hz, pick-up power 11.5 VA, holding power 8.0 VA 230 V AC: 50/60 Hz, pick-up power 6.2 VA, holding power 3.7 VA 230 V AC: 50/60 Hz, pick-up 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, pick-up power 2.5 VA, holding power 1.7 VA 24 V AC: 50/60 Hz, pick-up 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, pick-up power 2.5 VA, holding power 1.7 VA 48 V AC: 50/60 Hz, pick-up 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 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 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)
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
Media temperature	-20 °C ... 60 °C
Ambient temperature	-20 °C ... 60 °C
Product weight	335 g ... 685 g
Electrical connection	Type B Cable connector M20x1.5 M12x1, A-coded to EN 61076-2-101 Plug To EN 175301-803 To industry standard (11 mm)
Type of mounting	With through-hole
Breather connection	Not ducted
Pneumatic connection, port 1	QS-1/4 QS-5/16 QS-3/8
Pneumatic connection, port 2	Connection pattern to NAMUR
Pneumatic connection, port 3	QS-1/4 QS-5/16 QS-3/8

Feature	Value
Pneumatic connection, port 4	Connection pattern to NAMUR
Pneumatic connection, port 5	QS-5/16 QS-1/4 QS-3/8
Note on materials	RoHS compliant
Material seals	NBR
Material housing	Wrought aluminium alloy
Material screws	Galvanised steel