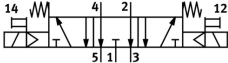


Solenoid valve VSNC

Part number: 8026033

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Valve function	5/2 double solenoid 5/2-way or 3/2-way, convertible 5/3-way, pressurised 5/3 exhausted 5/3 closed
Type of actuation	Electric
Construction width	32 mm
Standard nominal flow rate (standardised to DIN 1343)	800 l/min ... 1350 l/min
pneumatic working port	NAMUR port pattern
Operating voltage	110V AC 120V AC 12V DC 230V AC 240V AC 24V AC 24V DC 48V AC 48V 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 - Recognized (OL)
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 (IECEX) 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)
Certificate issuing authority	DNVGL-TAA000011J

Sales Partner:

FERGO Armaturen GmbH
Blindeisenweg 31
41468 Neuss

• Tel. : +49 (0) 21 31/15 39 28-0
• Fax: +49 (0) 21 31/15 39 28-99

• www.fergo.eu
• info@fergo.eu
• www.fergo.shop



Feature	Value
ATEX category gas	II 2G II 3G
ATEX category dust	II 2D II 3D
Explosion ignition protection type 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
Explosion ignition protection type for dust	Ex ia IIIB T135°C Da 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
Explosion 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
Degree of protection	IP65 IP66 IP67 With plug socket To IEC 60529
Exhaust-air function	With flow control option
Sealing principle	Soft
Mounting position	optional
Conforms to standard	VDI/VDE 3845 (NAMUR)
Manual override	Detenting None Non-detenting Covered
Type of piloting	Pilot actuated
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%

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Feature	Value
Characteristic coil data	110/120 V AC: 50/60 Hz, pick-up power 2.7 VA, holding power 1.9 VA 110/120 V AC: 50/60 Hz, pick-up power 4.4 VA, holding power 3.3 VA 110/120 V AC: 50/60 Hz, pick-up power 5.2 VA, holding power 3.1 VA 110/120 V AC: 50/60 Hz, pick-up power 6.9 VA, holding power 3.1 VA 110 V AC: 50/60 Hz, pick-up power 7.7 VA, holding power 3.8 VA 120 V AC: 60 Hz, pick-up 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, 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) The information in the certificate must be observed! 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	3-pin Type A Type B Cable connector M20x1.5 M12x1, A-coded to EN 61076-2-101 Plugs To EN 175301-803 To industry standard (11 mm)
Type of mounting	With through-hole
Breather connection	Not ducted

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Feature	Value
Pneumatic connection, port 1	G1/4 1/4 NPT QS-6 QS-8 QS-10 QS-1/4 QS-5/16 QS-3/8
Pneumatic connection, port 2	NAMUR port pattern
Pneumatic connection, port 3	G1/4 1/4 NPT QS-6 QS-8 QS-10 QS-1/4 QS-5/16 QS-3/8
Pneumatic connection, port 4	NAMUR port pattern
Pneumatic connection, port 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
Material seals	NBR
Material housing	Wrought aluminium alloy
Material screws	Galvanised steel