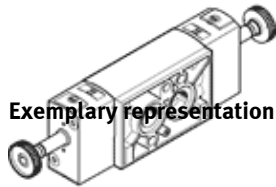


# solenoid valve VSNC

Part number: 8026033

FESTO

NAMUR valve 1/4"



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Valve function	5/2 bistable 5/2 or 3/2, convertible 5/3 pressurised 5/3 exhausted 5/3 closed
Type of actuation	electrical
Width	32 mm
Standard nominal flow rate	800 ... 1,350 l/min
Operating pressure MPa	0.15 ... 1 MPa
Operating pressure	1.5 ... 10 bar
Design structure	Piston slide Poppet seat
Type of reset	mechanical spring
Authorisation	c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive explosion protection (ATEX) to EU directive low-voltage devices
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)
Certificate issuing department	DNVGL-TAA000011J
ATEX category Gas	II 2G II 3G
ATEX category Dust	II 2D II 3D
Explosion ignition protection type 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

Feature	Value
Explosion ignition protection type Dust	Ex nA IIC T5 X Gc 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-proof 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
Protection class	IP65 IP66 IP67 with plug socket to IEC 60529
Exhaust-air function	throttleable
Sealing principle	soft
Assembly position	Any
Conforms to standard	VDI/VDE 3845 (NAMUR)
Manual override	detenting None Pushing Covered
Type of piloting	Piloted
Pilot air supply	Internal
Flow direction	non reversible
Overlap	Positive overlap Underlap
Signal status display	with accessories
b value	0.4 ... 0.5 bar
C value	2.1 ... 5.6 l/sbar
Standard nominal flow rate, exhaust air return 4→3	110 l/min
Switching time off	6 ... 120 ms
Switching time on	4 ... 35 ms
Switching time reversal	2 ... 55 ms
Duty cycle	100 %
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 120V 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 VA, holding power 6 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

Feature	Value
	24VDC:1,2 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 fluctuation	+/- 10 %
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L VDMA24364 zone III
Medium temperature	-20 ... 60 °C
Ambient temperature	-20 ... 60 °C
Product weight	335 ... 685 g
Electrical connection	3-pin Plug pattern type A to EN 175301-803 Plug pattern type B to EN 175301-803 Cable fitting M20x1.5 M12x1, A-coded in accordance with EN 61076-2-101 Plug to EN 175301-803 To industry standard (11 mm)
Mounting type	with through hole
Scavenging orifice connection	Non-ducted
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
Materials note	Conforms to RoHS
Material seals	NBR
Material housing	Wrought Aluminium alloy
Material screws	Galvanised steel