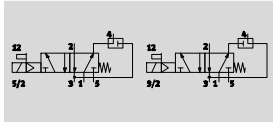




# Solenoid valves VSNC

Technical data – 3/2-way or 5/2-way -...-FN, convertible, single solenoid

Function  
3/2-way or 5/2-way valve,  
convertible



 - Operating pressure  
2.5 ... 8 bar

 - Temperature range  
-20 ... +60 °C



General technical data		
	VSNC-FC-M52-MD-G14-FN VSNC-FC-M52-MD-N14-FN	VSNC-FC-M52-MD-G14-FN-1A1-EX4-A VSNC-FC-M52-MD-N14-FN-1A1-EX4-A
Valve function	3/2-way or 5/2-way, convertible	
Width [mm]	32	
Design	Piston spool	
Sealing principle	Soft	
Type of actuation	Electrical	
Reset method	Mechanical spring	
Type of control	Piloted	
Pilot air supply port	Internal	
Exhaust air function	With flow control	
Manual override	Detenting, non-detenting	
Type of mounting	With through-hole	
Connection for venting hole	Not ducted	
Mounting position	Any	
Non-overlapping	Yes	
Standard nominal flow rate 1 → 2 [l/min]	1250	
Exhaust return 4 → 3 [l/min]	110	
b value	0.4	
C value [l/sbar]	5.2	
Pneumatic connection 1, 3, 5	G1/4, NPT1/4-18	
2, 4	Port pattern to NAMUR	
Conforms to standard	VDI/VDE 3845 (NAMUR)	
Product weight [g]	419	

Operating and environmental conditions		
	VSNC-FC-M52-MD-G14-FN VSNC-FC-M52-MD-N14-FN	VSNC-FC-M52-MD-G14-FN-1A1-EX4-A VSNC-FC-M52-MD-N14-FN-1A1-EX4-A
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Operating pressure [bar]	2.5 ... 8	
Ambient temperature [°C]	-20 ... +60	
Temperature of medium [°C]	-20 ... +60	
Corrosion resistance class CRC <sup>1)</sup>	2	

1) Corrosion resistance class CRC 2 to Festo standard FN 940070  
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

# Solenoid valves VSNC

Technical data – 3/2-way or 5/2-way -...-FN, convertible, single solenoid

ATEX		
	VSNC-FC-M52-MD-G14-FN VSNC-FC-M52-MD-N14-FN	VSNC-FC-M52-MD-G14-FN-1A1-EX4-A VSNC-FC-M52-MD-N14-FN-1A1-EX4-A
ATEX category gas	–	II 2G
Type of ignition protection for gas	–	Ex ia IIC T6 Ga
ATEX category dust	–	II 2D
Type of ignition protection for dust	–	Ex t IIIIC T80°C Db
Explosion protection certification outside the EU	–	EPL Db (IEC-EX)
	–	EPL Ga (IEC-EX)
Explosion-proof temperature [°C]	–	-40 °C ≤ Ta ≤ +50 °C
Degree of protection	–	IP65
	–	IP67
CE marking (see declaration of conformity)	As per EU Explosion Protection Directive (ATEX)	

Electrical data		
	VSNC-FC-M52-MD-G14-FN VSNC-FC-M52-MD-N14-FN	VSNC-FC-M52-MD-G14-FN-1A1-EX4-A VSNC-FC-M52-MD-N14-FN-1A1-EX4-A
Electrical connection	–	Type A, to EN 175301-803
Coil characteristics	See solenoid coil, to be ordered separately	
Switching time on [ms]	24	
Switching time off [ms]	92	
Permissible voltage fluctuations [%]	–	± 10

Materials		
1 Housing	Wrought aluminium alloy	
2 Seals	NBR	
–	RoHS compliant	

# Solenoid valves VSNC

Technical data – 3/2-way or 5/2-way -...-FN, convertible, single solenoid

**Dimensions** Download CAD data →

VSNC-FC-M52-MD-...14-FN-1A1-Ex4-A

VSNC-FC-M52-MD-...14-FN

1 Solenoid coil

2  $\varnothing 5 \times 4$  to DIN 913-M5x10-45h

3 Auxiliary pilot air exhaust port 82, M5

5 Working port 2 and 4, port pattern to NAMUR

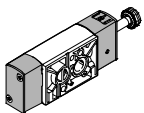
Type	B1	B2	B3	B4	B6	D1	D2	D5	H1	H2	H3	H4	H5	H6
VSNC-FC-M52-MD-G14-FN	31.8	18.6	7.3	1.9	33.4	G1/4	M5	9	49.8	28.2	32	7.8	4.4	-
VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A														65.1
VSNC-FC-M52-MD-N14-FN						-								
VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A						65.1								

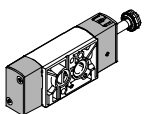
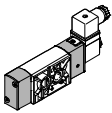
Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-FN	-	165	-	130.6	57.6	24	-	34.4	94.1	69.6	45.1	57.6	24
VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A	168.3		160.1				37.7						
VSNC-FC-M52-MD-N14-FN	-		-				-						
VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A	168.3		160.1				37.7						

# Solenoid valves VSNC

Technical data – 3/2-way or 5/2-way -...-FN, convertible, single solenoid

## ★ Core product range

Ordering data – Valves		
Directional control valve without solenoid coil		
	Part No.	Type
	★ 577267	VSNC-FC-M52-MD-G14-FN

Ordering data – Valves		
Directional control valve without solenoid coil		
	Part No.	Type
	577272	VSNC-FC-M52-MD-N14-FN
Directional control valve with Ex i solenoid coil including socket		
	577281	VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A
	577286	VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A

Festo core product range

- ★ Ready for dispatch from the Festo factory in 24 hours
- ☆ Ready for dispatch in 5 days maximum from stock