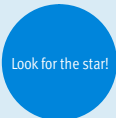


Solenoid valves VSNC



★ / ★	Festo core product range Covers 80% of your automation tasks	★ Generally ready for shipping ex works in 24 hours Held in stock in 13 service centres worldwide More than 2200 product
Worldwide:	Always in stock	★ Generally ready for shipping ex works in 5 days
Superb:	Festo quality at an attractive price	Assembled for you in 4 service centres worldwide
Easy:	Reduces procurement and storing complexity	Up to 6 x 10 ¹² variants per product series



Solenoid valves VSNC

Key features, product range overview VSNC-...

FESTO

Function

VSNC valves are pilot valves for single- and double-acting quarter turn and linear actuators with a port pattern in accordance with VDI/VDE 3845, such as DAPS, DFPB. They can also be mounted on actuators without a NAMUR interface, e.g. diaphragm actuators

thanks to appropriate accessories such as a connection kit. They are designed for the requirements of process automation. Mechanical springs (single-solenoid valves) ensure safe switching to the initial position in the event of a power failure.

Innovative

- Conversion from 3/2-way to 5/2-way valve simply by turning the seal
- Enables single- or double-acting actuators to be controlled with one valve
- The valve can be ordered either with non-detenting/detenting or non-detenting manual override or without manual override. It is converted using a special cover. The part number is therefore identical. The manual override option can be changed at any time

Cost- and application-optimised

- Cost-optimised variant with plastic cover and brass armature and IP65 coils

-  - Voltage
12, 24, 48 V DC
24, 48, 120, 230 V AC

-  - Operating pressure
2.5 ... 10 bar

-  - Temperature range
-20 ... +60 °C

Flexible

- Application-optimised variant with aluminium cover, stainless steel armature tube for IP65 and Ex coils, and protective cap for armature tube exhaust
- One armature tube system for all Ex solenoid systems
- For zone 1 to IEC Ex with type of ignition protection
- Ex-ia
- Ex-mb
- For zone 2 to IEC Ex with type of ignition protection
- Ex-nA
- For Class I, Div I to NEC 505
- AEx-m



VSNC-F8



VSNC with IP65 solenoid

VSNC-F ... -FN



VSNC piston spool

VSNC-FT ... -FN



VSNC poppet seat



VSNC with Ex-ia solenoid



VSNC with FM solenoid



VSNC with Ex-nA solenoid



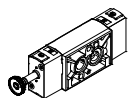
VSNC with Ex-m solenoid

Solenoid valves VSNC

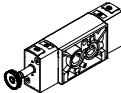
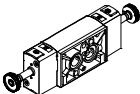
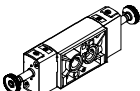
Key features, product range overview VSNC-...-F8

FESTO

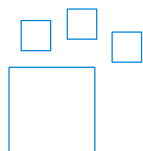
VSNC-F8



- Valve cover cap material: Plastic/metal
- Armature material: Brass
- Pilot air (incoming air of armature), unprotected

Version	Type	Pneumatic connection 1, 3, 5	Pneumatic connection 2, 4, based on standard	Standard nominal flow rate [l/min]	→ Page
5/2-way or 3/2-way valve, convertible, single solenoid					
	VSNC-FC-M52-MD-G14-F8	G 1/4	VDI/VDE 3845 NAMUR 1/4	1250	12
	VSNC-FC-M52-MD-N14-F8	NPT 1/4			
	VSNC-FC-M52-MD-G14-F8-1A1	G 1/4			
5/2-way valve, double solenoid					
	VSNC-F-B52-D-G14-F8	G 1/4	VDI/VDE 3845 NAMUR	1350	17
	VSNC-F-B52-D-N14-F8	NPT 1/4			
5/3-way valve					
	VSNC-F-P53C-MD-G14-F8	G 1/4	VDI/VDE 3845 NAMUR	1250	20
	VSNC-F-P53U-MD-G14-F8	G 1/4		950	
	VSNC-F-P53E-MD-G14-F8	G 1/4		1050	
	VSNC-F-P53C-MD-N14-F8	NPT 1/4		1250	
	VSNC-F-P53U-MD-N14-F8	NPT 1/4		950	
	VSNC-F-P53E-MD-N14-F8	NPT 1/4		1050	

Ordering data – Product options



Configurable product
This product and all its product options can be ordered using the configurator.

The configurator can be found under
Products on the DVD or at
www.festo.com/catalogue/...

Part No. Type
8026033 VSNC

Coils	IP65 Industrial type B							IP65 type A						
Valve function	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	120 V AC	230 V AC	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	120 V AC	230 V AC
5/2-way and 3/2-way, single solenoid	■	■ Part no.	■	■	■	■	■	■	■ Part no.	■	■	■	■	■
5/2-way, double solenoid	■	■ Part no.	■	■	■	■	■	■	■ Part no.	■	■	■	■	■
5/3 G	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3 B	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3 E	■	■	■	■	■	■	■	■	■	■	■	■	■	■

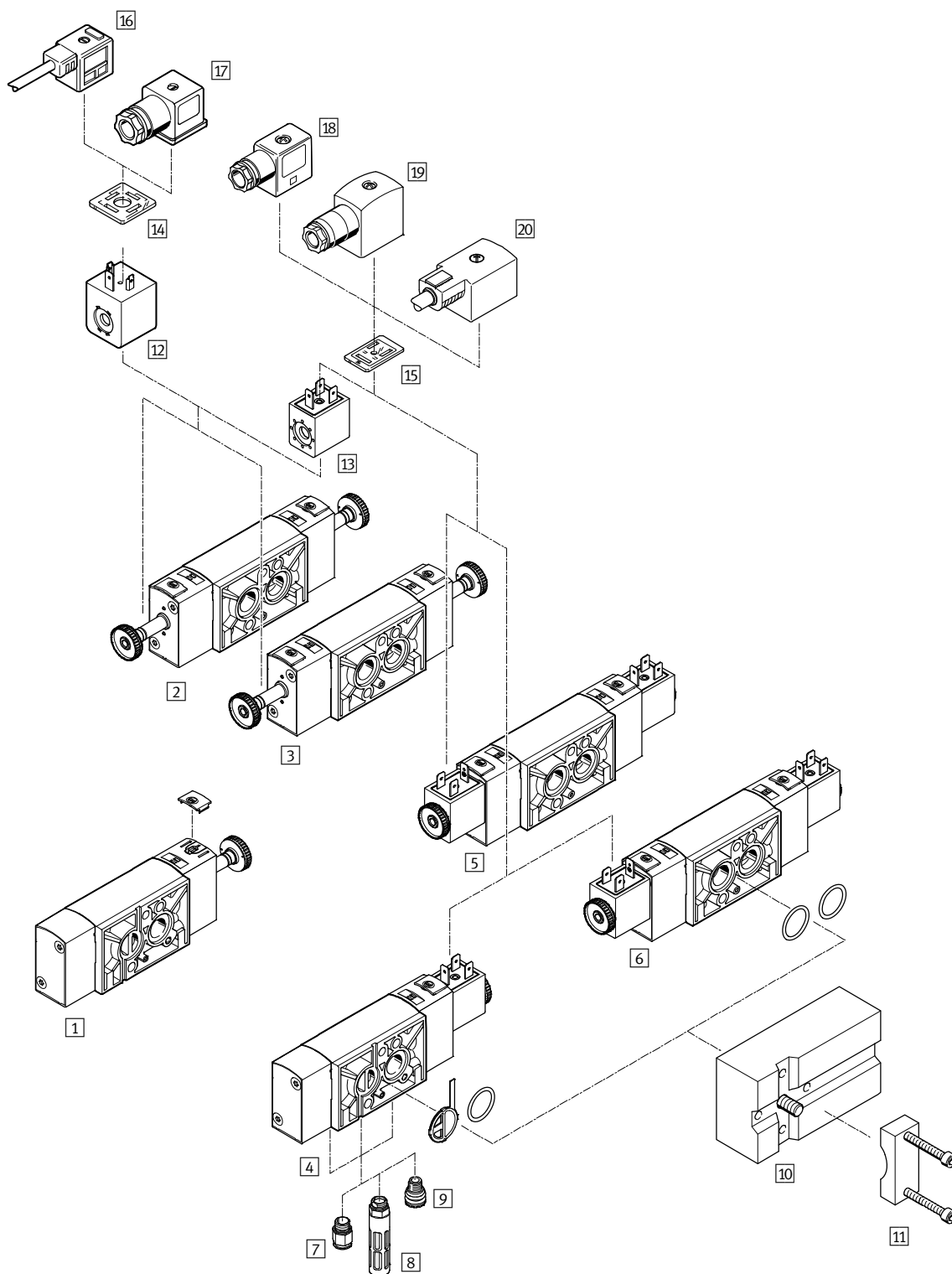
■ = Can be combined using a modular system

Part no. = Can be ordered with part number as a fast seller

Solenoid valves VSNC

Peripherals overview VSNC-...-F8

FESTO



Solenoid valves VSNC

Peripherals overview VSNC-...-F8

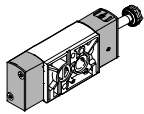


Mounting components and accessories		
	Brief description	→ Page/Internet
1 VSNC-...-F8 Solenoid valves	3/2-way and 5/2-way single solenoid valve with converting seal, plastic cover cap and brass armature tube, for controlling single- or double-acting actuators	12
2 VSNC-...-F8 Solenoid valves	5/2-way double solenoid valve with plastic cover cap and brass armature tube, for controlling double-acting actuators	17
3 VSNC-...-F8 Solenoid valves	5/3-way single solenoid valve, normally open, closed or exhausted, with plastic cover cap and brass armature tube, for controlling double-acting actuators	20
4 VSNC-...-F8 Solenoid valves	3/2-way and 5/2-way single solenoid valve with converting seal, plastic cover cap, brass armature tube and 24 V DC solenoid coil, for controlling single- or double-acting actuators	12
5 VSNC-...-F8 Solenoid valves	5/2-way double solenoid valve with plastic cover cap, brass armature tube and 24 V DC solenoid coil, for controlling double-acting actuators	17
6 VSNC-...-F8 Solenoid valves	5/3-way single solenoid valve, normally open, closed or exhausted, with plastic cover cap, brass armature tube and 24 V DC solenoid coil, for controlling double-acting actuators	20
7 QS Push-in fitting	For connecting tubing with standard outside diameters	47
8 U Silencer	–	47
9 VABD-D3-SN-G14 Exhaust protection	Exhaust protection to IP65. The spring chamber of the actuator is protected against the ingress of aggressive ambient air and water by the one-way flow control system	45
10 VABS-S7-S-G14 Connection kit	Mounting plate for attaching the valve to a NAMUR rib	44
11 VAME-S7-Y Mounting bracket	Alternative option (instead of screw) of attaching the valve to a NAMUR rib with the help of a mounting bracket	44
12 VACF-A Solenoid coil	Electrical connection to DIN EN 175301-803, type A	45
13 VACF-B Solenoid coil	Electrical connection to Festo standard for MSSD-F	45
14 MC-LD Illuminating seal	Illuminating seal for displaying the switching status	47
15 MF-LD Illuminating seal	Illuminating seal for displaying the switching status	47
16 KMC Connecting cable	–	46
17 MSSD-C Plug socket	Electrical connection to DIN EN 175301-803, type A	47
18 MSSD-F Plug socket	Electrical connection to Festo standard with screw terminal connection	47
19 MSSD-F-S Plug socket	Electrical connection to Festo standard with insulation displacement connection	47
20 KMF Connecting cable	–	kmf

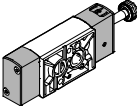
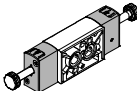
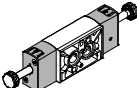
Solenoid valves VSNC

Key features and product range overview – VSNC-...-FN

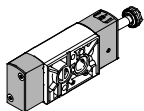
VSNC-F ... -FN



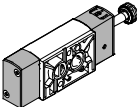
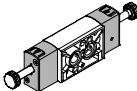
- Design of piston spool
- Valve cover cap material: Aluminium/metal
- Armature material: Stainless steel
- Pilot air (incoming air of armature tube), protected

Version	Type	Pneumatic connection 1, 3, 5	Pneumatic connection 2, 4, based on standard	Standard nominal flow rate [l/min]	→ Page
3/2-way or 5/2-way valve -...-FN, convertible, single solenoid					
	VSNC-FC-M52-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1250	24
	VSNC-FC-M52-MD-N14-FN	NPT 1/4-18			
	VSNC-FC-M52-MD-G14-FN-1A1-EX4-A	G 1/4			
	VSNC-FC-M52-MD-N14-FN-1A1-EX4-A	NPT 1/4-18			
	VSNC-FC-M52-MD-G14-GN-1A1+G	G 1/4			
	VSNC-FC-M52-MD-G14-FN-3AA1+G	G 1/4			
5/2-way valve -...-FN, double solenoid					
	VSNC-F-B52-D-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1350	29
	VSNC-F-B52-D-N14-FN	NPT 1/4-18			
	VSNC-F-B52-D-G14-FN-1A1-EX4-A	G 1/4			
	VSNC-F-B52-D-N14-FN-1A1-EX4-A	NPT 1/4-18			
5/3-way valve -...-FN					
	VSNC-F-P53C-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1250	33
	VSNC-F-P53U-MD-G14-FN	NPT 1/4-18		950	
	VSNC-F-P53E-MD-G14-FN			1050	
	VSNC-F-P53C-MD-N14-FN			1250	
	VSNC-F-P53U-MD-N14-FN			950	
	VSNC-F-P53E-MD-N14-FN			1050	

VSNC-FT ... -FN



- Design of poppet seat
- Valve cover cap material: Aluminium/metal
- Armature material: Stainless steel
- Pilot air (incoming air of armature tube), protected

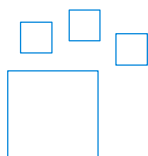
Version	Type	Pneumatic connection 1, 3, 5	Pneumatic connection 2, 4, based on standard	Standard nominal flow rate [l/min]	→ Page
3/2-way or 5/2-way valve -...-FN, convertible, single solenoid					
	VSNC-FTC-M52-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	800	37
	VSNC-FTC-M52-MD-N14-FN	NPT 1/4-18			
	VSNC-FTC-M52-MD-G14-FN-1A1	G 1/4			
5/2-way valve -...-FN, double solenoid					
	VSNC-FT-B52-D-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1000	40
	VSNC-FT-B52-D-N14-FN	NPT 1/4-18			
	VSNC-FT-B52-D-G14-FN-1A1	G 1/4			

Solenoid valves VSNC

FESTO

Key features and product range overview – VSNC-...-FN

Ordering data – Product options



Configurable product
This product and all its product options can be ordered using the configurator.

The configurator can be found under
Products on the DVD or at
→ www.festo.com/catalogue/...

Part No. Type
8026033 VSNC

Coils	IP 65			Ex-nA			Ex-ia	Ex-mb			AEx-m		
Valve function	24 V DC	120 V AC	230 V AC	24 V DC	120 V AC	230 V AC	24 ... 32 V DC	24 V DC	120 V AC	230 V AC	24 V DC	120 V AC	230 V AC
5/2-way and 3/2-way, single solenoid	■	■	■	■	■	■	■	■	■	■	■	■	■
5/2-way, double solenoid	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3 G	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3 B	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3 E	■	■	■	■	■	■	■	■	■	■	■	■	■

■ = Can be combined using a modular system

Part no. = Can be ordered with part number as a fast seller

Intrinsically safe coils VACN-...-Ex4A



- Category II 2G II 2D
- Type of ignition protection Ex-ia
- IEC Ex certification
- ATEX certification

Non-sparking coils VACN-...-Ex2N



- Category II 3G II 3D
- Type of ignition protection nA
- ATEX certification

Encapsulated coils VACN-...-Ex4M



- Category II 2G II 2D
- Type of ignition protection Ex-m
- IEC Ex certification
- ATEX certification

Encapsulated coils with conduit, connection VACN-...-U4M

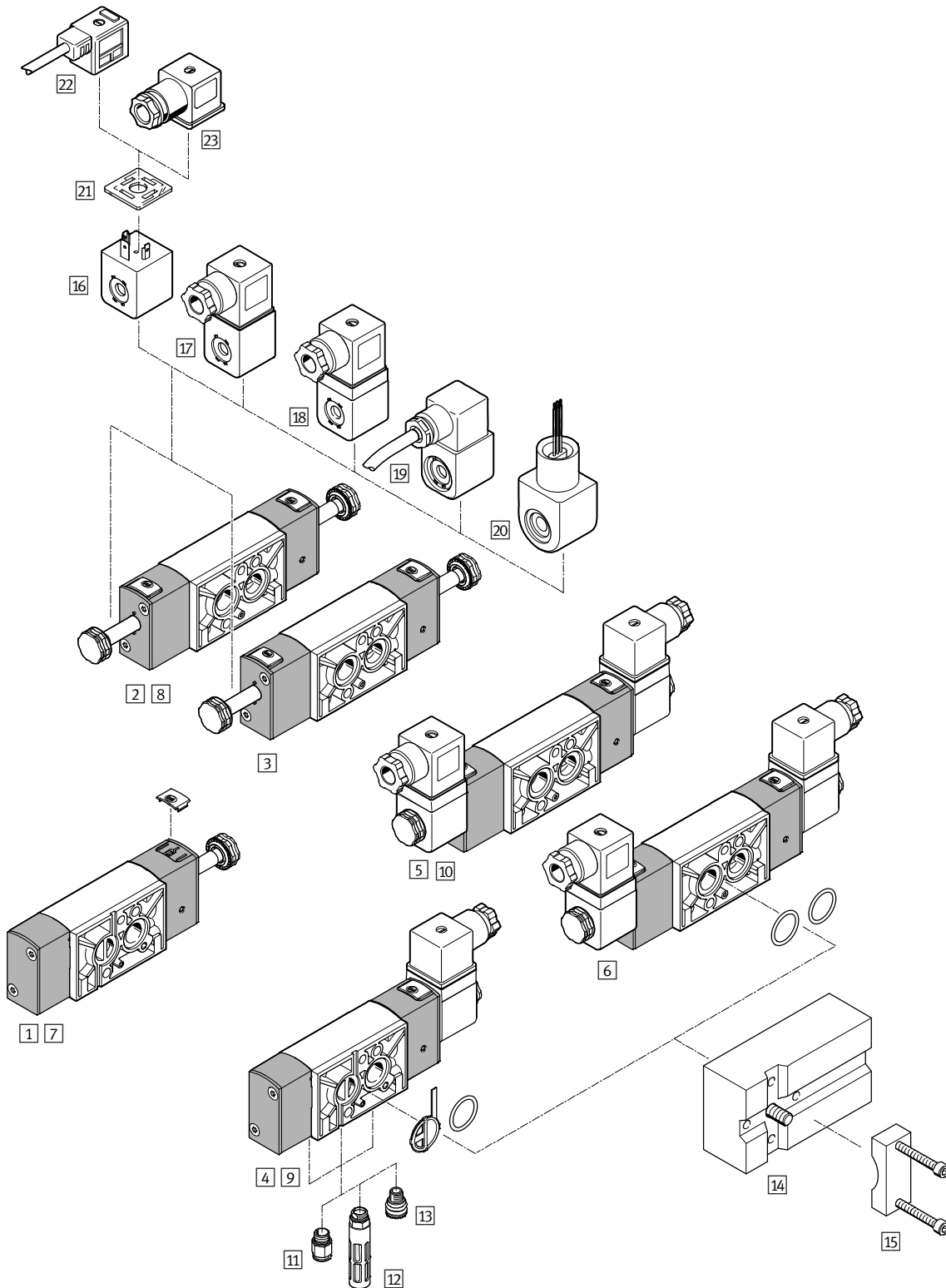


- Class I; Div I
- Type of ignition protection AEx-...-m
- FM approval

Solenoid valves VSNC

Peripherals overview – VSNC-F-...-FN

FESTO



Solenoid valves VSNC

Peripherals overview – VSNC-F-...-FN



Mounting components and accessories		
	Brief description	→ Page/Internet
1 VSNC-F ...-FN Piston spool	3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover cap and stainless steel armature tube	24
2	5/2-way double solenoid valve with aluminium cover cap and stainless steel armature tube	29
3	5/3-way single solenoid valve, normally open, closed or exhausted, with aluminium cover cap and stainless steel armature tube	33
4	3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover cap and stainless steel armature tube and Ex ia solenoid coil	24
5	5/2-way double solenoid valve with aluminium cover cap and stainless steel armature tube and Ex ia solenoid coil	29
6	5/3-way single solenoid valve, normally open, closed or exhausted, with aluminium cover cap and stainless steel armature tube and Ex ia solenoid coil	33
7 VSNC-FT- ...-FN Poppet seat	3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover cap and stainless steel armature tube	37
8	5/2-way double solenoid valve with aluminium cover cap and stainless steel armature tube	40
9	3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover cap and stainless steel armature tube and 24 V DC solenoid coil	37
10	5/2-way double solenoid valve with aluminium cover cap, stainless steel armature tube and 24 V DC solenoid coil	40
11 QS Push-in fitting	For connecting tubing with standard outside diameter	47
12 U Silencer	–	47
13 VABD-D3-SN-G14 Exhaust protection	Exhaust protection to IP65. The spring chamber of the actuator is protected against the ingress of aggressive ambient air and water by the one-way flow control system	45
14 VABS-S7-S-G14 Connection kit	Mounting plate for attaching the valve to a NAMUR rib	44
15 VAME-S7-Y Mounting bracket	Alternative option (instead of screw) for attaching the valve to a NAMUR rib with the help of a mounting bracket	44
16 VACN-N Solenoid coil	Electrical connection to DIN EN 175301-803, type A	–
17 VACN-N- ... -Ex2-N Solenoid coil	Type of ignition protection nA = non-sparking, for use in zone 2	–
18 VACN-N- ... -Ex4-A Solenoid coil	Type of ignition protection iA = intrinsically safe, for use in zone 1	–
19 VACN-N- ... -Ex4-M Solenoid coil	Type of ignition protection m = encapsulated, for use in zone 1	–
20 VACN-N- ... -U4-M Solenoid coil	Type of ignition protection m = encapsulated, for use in Class I, Div I (American FM approval to NEC 500)	–
21 MC-LD Illuminating seal	Illuminating seal for displaying the switching status	47
22 KMC Connecting cable	–	kmc
23 MSSD-C Plug socket	Electrical connection to DIN EN 175301-803, type A	47

Solenoid valves VSNC

Type codes

VSNC - F - - - - - - - - - -	
Type	
VSNC	Solenoid valves
Type of directional control valve	
F	Flanged valve
Design principle	
	Piston spool
T	Poppet seat
Additional function	
	None
C	Convertible valve function
Valve function	
B52	5/2-way valve, double solenoid
M52	5/2-way valve, single solenoid
P53C	5/3-way valve, mid-position closed
P53E	5/3-way valve, mid-position exhausted
P53U	5/3-way valve, mid-position pressurised
Reset method for single solenoid valves	
	None
M	Mechanical spring
Manual override	
D	Non-detenting, detenting
H	Non-detenting, resetting
S	Covered
Pneumatic connection	
Q6	Push-in connector 6 mm
Q8	Push-in connector 8 mm
G14	G 1/4
N14	N 1/4
Q10	Push-in connector 10 mm
T14	Push-in connector 1/4
T38	Push-in connector 3/8
T516	Push-in connector 5/16
Venting	
	Without fitting
QN	With fitting
U1	Silencer with metal housing
U3	Silencer with polymer housing
Interface to valve pilot	
F8	With armature tube 8 mm long
FN	With armature tube 9 mm long

Type codes

Type codes

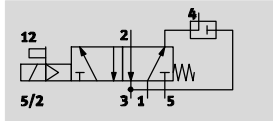
Solenoid valves VSNC

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

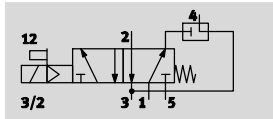
Function¹⁾

5/2-way valve



3/2-way valve

with exhaust return



¹⁾ Can be changed by exchanging the seal plate

-  - Voltage
24 V DC

-  - Operating pressure
2.5 ... 10 bar

-  - Temperature range
-20 ... +60 °C



General technical data		VSNC-FC- ... -G14-F8 VSNC-FC- ... -N14-F8	VSNC-FC- ... -G14-F8-1B2	VSNC-FC- ... -G14-F8-1A1
Valve function		3/2-way or 5/2-way, convertible		
Width	[mm]	32		
Design		Piston spool		
Sealing principle		Soft		
Type of pilot		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Manual override		Detenting, non-detenting		
Exhaust function		Flow control		
Vent connection		Not ducted		
Pilot air supply		Internal		
Type of mounting		With through-hole		
Mounting position		Any		
Max. tightening torque of valve mounting	[Nm]	3.5		–
Non-overlapping		Yes		
Standard nominal flow rate	1 → 2 [l/min]	1250		
Exhaust air return	4 → 3 [l/min]	110		
b value		0.4		
C value	[l/sbar]	5.2		
Pneumatic connection	1, 3, 5 2, 4	G 1/4, NPT 1/4 Port pattern to NAMUR	G 1/4	G 1/4
Conforms to standard		VDI/VDE 3845 NAMUR		
Certificate issuing authority		DNVGL-TAA000011J		
Product weight	[g]	335	390	335

Solenoid valves VSNC



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

Operating and environmental conditions			
	VSNC-FC- ... -G14-F8 VSNC-FC- ... -N14-F8	VSNC-FC- ... -G14-F8-1B2	VSNC-FC- ... -G14-F8-1A1
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 ... 10		
Ambient temperature [°C]	–20 ... +60		
Temperature of medium [°C]	–20 ... +60		
Corrosion resistance class CRC ¹⁾	2		
Certification	–		c UL us - Recognized (OL)
Maritime classification ²⁾	See certificate		–

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.

2) Additional information www.festo.com/sp → Certificates.

Electrical data			
	VSNC-FC- ... -G14-F8 VSNC-FC- ... -N14-F8	VSNC-FC- ... -G14-F8-1B2	VSNC-FC- ... -G14-F8-1A1
Electrical connection	–	3-pin push-in connector, type B to industry standard (11 mm)	To EN 175301-803 type A
Coil characteristics, 24 V DC [W]	See solenoid coil, to be ordered separately	3.3	2.6
Permissible voltage fluctuations [%]	–	±10	±10
Duty cycle [%]	–	100	100
Degree of protection	–	IP65, IP67	IP65, IP67 to IEC 60529 with socket
Switching time on [ms]	11	11	11
Switching time off [ms]	38	48	48

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

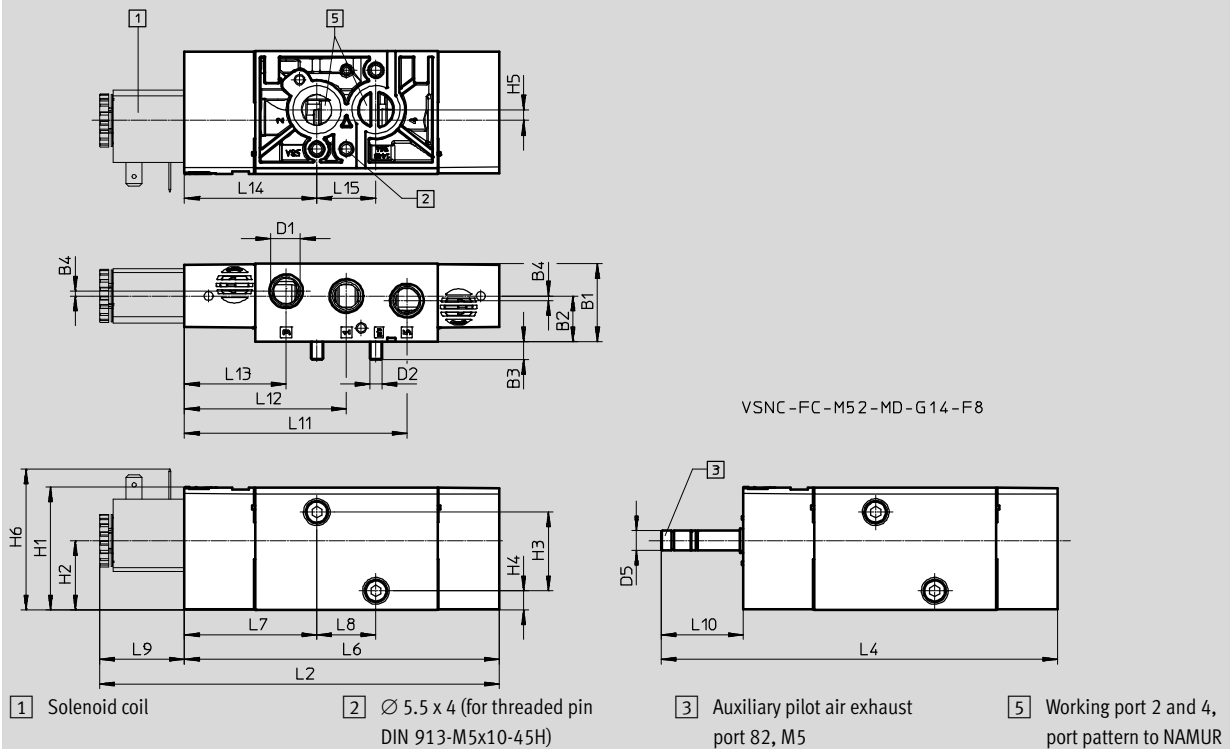
Solenoid valves VSNC

FESTO

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

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	D1	D2	D5	H1	H2	H3	H4	H5	H6
VSNC-FC-M52-MD-G14-F8	31.8	18.6	7.3	1.9	G 1/4	M5	8	49.9	28.2	32	7.8	4.4	-
VSNC-FC-M52-MD-N14-F8					NPT 1/4-18								
VSNC-FC-M52-MD-G14-F8-1B2					G 1/4								57.2

Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-F8	162.2	161.1	127.8	53.8	24	-	33.3	90.3	65.8	41.3	53.8	24
VSNC-FC-M52-MD-N14-F8						-						
VSNC-FC-M52-MD-G14-F8-1B2						34.4						

Solenoid valves VSNC

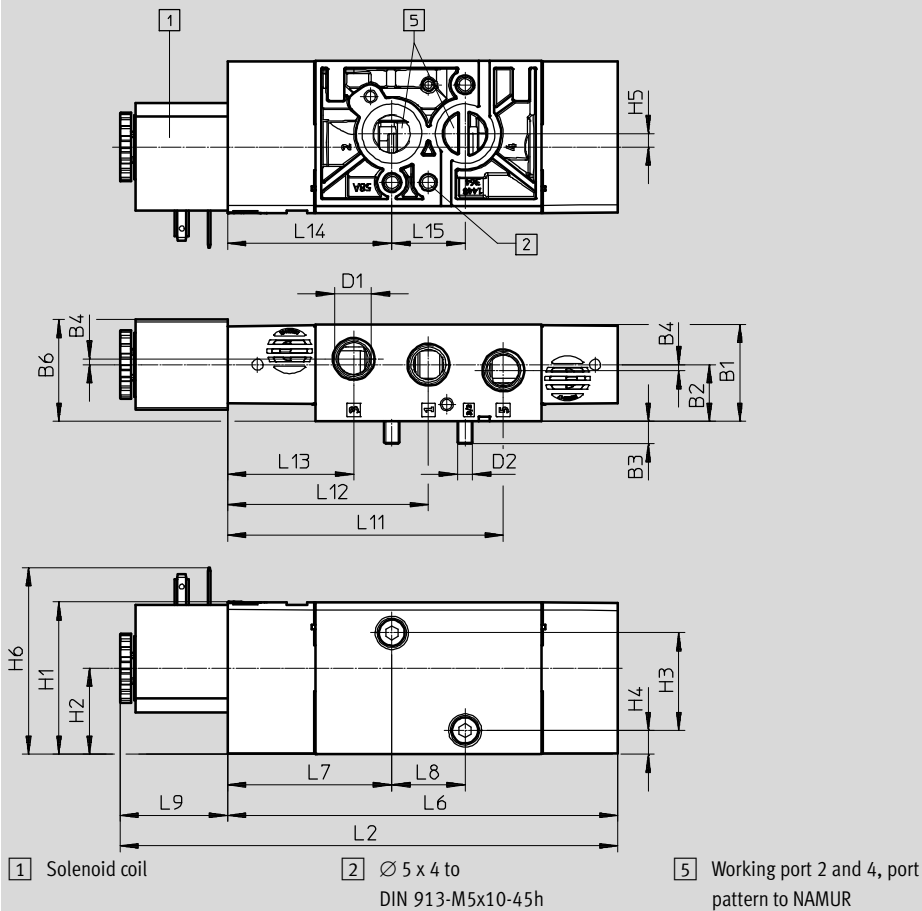
Technical data – 3/2-way or 5/2-way valve, convertible, single solenoid

FESTO

Dimensions

Download CAD data → www.festo.com

VSNC-FC-M52-MD-G14-F8-1A1



Type	B1	B2	B3	B4	B6	D1	D2	H1	H2	H3	H4	H5
VSNC-FC-M52-MD-G14-F8-1A1	31.8	18.6	7.3	1.9	33.3	G 1/4	M5	49.9	28.2	32	7.8	4.4

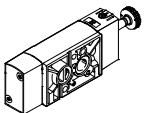
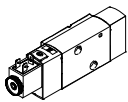
Type	H6	L2	L6	L7	L8	L9	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-F8-1A1	61.1	163	127.8	53.8	24	35.2	90.3	65.8	41.3	53.8	24

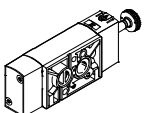
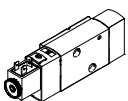
Solenoid valves VSNC

FESTO

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

★ Core product range

Ordering data – Valves			Ordering data – Valves		
Directional control valve without solenoid coil	Part No.	Type	Directional control valve with 24 V DC solenoid coil, without socket	Part No.	Type
	★ 577257	VSNC-FC-M52-MD-G14-F8		★ 577295	VSNC-FC-M52-MD-G14-F8-1B2

Ordering data – Valves			Ordering data – Valves		
Directional control valve without solenoid coil	Part No.	Type	Directional control valve with 24 V DC solenoid coil, without socket	Part No.	Type
	577262	VSNC-FC-M52-MD-N14-F8		8074945	VSNC-FC-M52-MD-G14-F8-1A1

Festo core product range

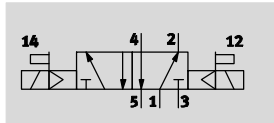
- ★ Generally ready for shipping ex works in 24 hours
- ☆ Generally ready for shipping ex works in 5 days

Solenoid valves VSNC

FESTO

Technical data – 5/2-way valve, double solenoid

Function
5/2-way valve



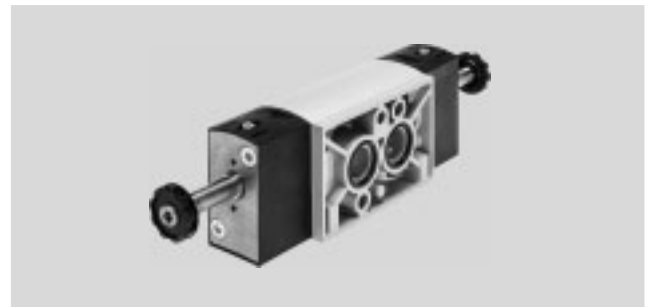
Voltage
24 V DC



Operating pressure
1.5 ... 10 bar



Temperature range
–20 ... +60 °C



General technical data		VSNC-F-B52-D-G14-F8 VSNC-F-B52-D-N14-F8	VSNC-F-B52-D-G14-F8-1B2
Valve function		5/2-way, double solenoid	
Width	[mm]	32	
Nominal size DN	[mm]	7.2	
Design		Piston spool	
Sealing principle		Soft	
Type of actuation		Electrical	
Type of reset		–	
Type of actuation		Piloted	
Manual override		Detenting, non-detenting	
Type of mounting		With through-hole	
Mounting position		Any	
Max. tightening torque of valve mounting	[Nm]	3.2	
Non-overlapping		Yes	
Standard nominal flow rate	1 → 2 [l/min]	1200	
b value		0.4	
C value	[l/sbar]	5.6	
Pneumatic connection	1, 3, 5 2, 4	G 1/4, NPT 1/4-18 Port pattern to NAMUR	
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011]	
Product weight	[g]	345	455

Solenoid valves VSNC



Technical data – 5/2-way valve, double solenoid

Operating and environmental conditions		
	VSNC-F-B52-D-G14-F8 VSNC-F-B52-D-N14-F8	VSNC-F-B52-D-G14-F8-1B2
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]	1.5 ... 10	
Ambient temperature [°C]	–20 ... +60	
Temperature of medium [°C]	–20 ... +60	
Corrosion resistance class CRC ¹⁾	2	
Maritime classification ²⁾	See certificate	

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.

2) Additional information www.festo.com/sp → Certificates.

Electrical data		
	VSNC-F-B52-D-G14-F8 VSNC-F-B52-D-N14-F8	VSNC-F-B52-D-G14-F8-1B2
Electrical connection	–	3-pin push-in connector, to industry standard (11 mm), type B
Coil characteristics, 24 V DC [W]	See solenoid coil, to be ordered separately	3.3
Permissible voltage fluctuations [%]	–	±10
Degree of protection	–	IP65, IP67
Switching time on [ms]	11	

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

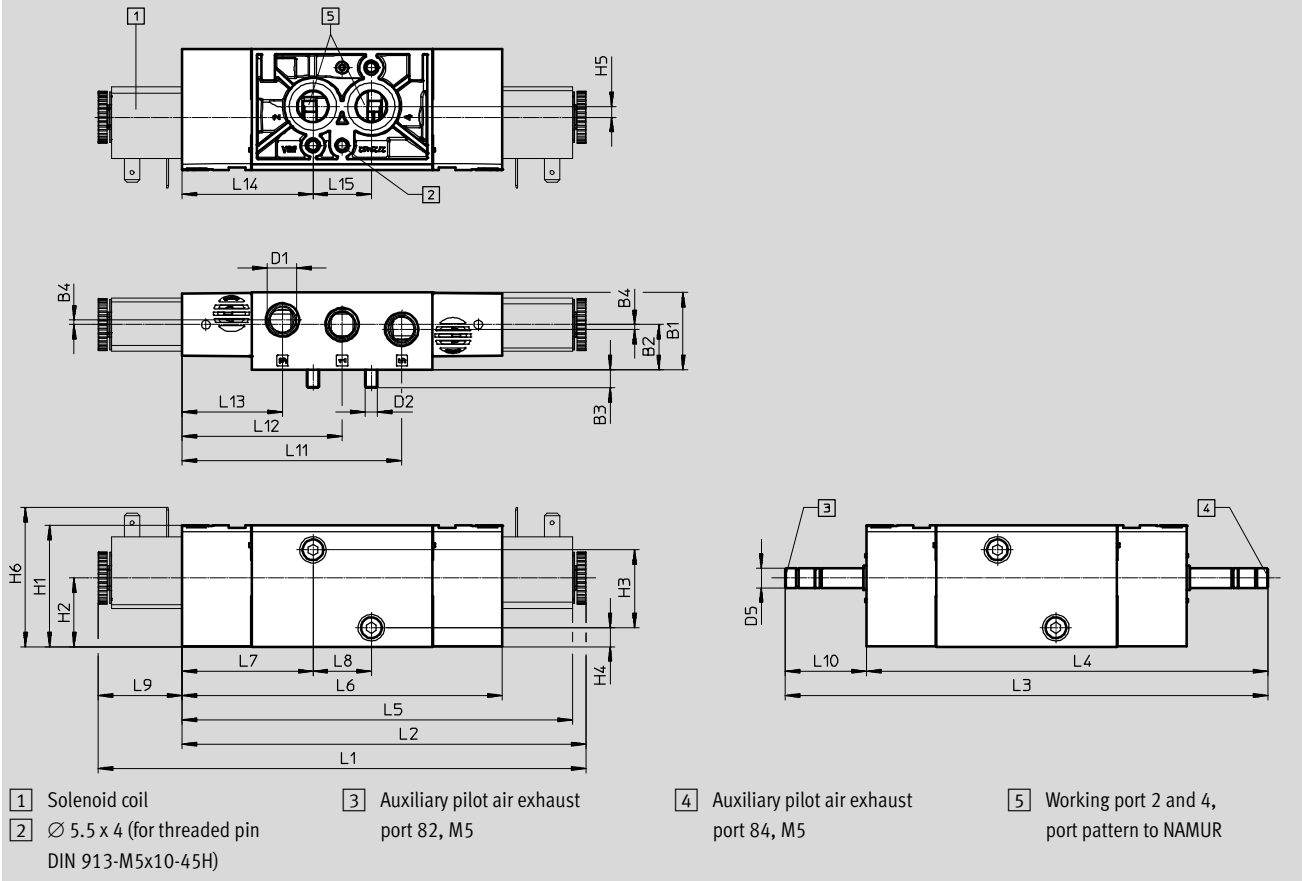
Solenoid valves VSNC

Technical data – 5/2-way valve, double solenoid

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	D1	D2	D5	H1	H2	H3	H4	H5	H6	L1
VSNC-F-B52-D-G14-F8	31.8	18.6	7.3	1.9	G 1/4	M5	8	49.9	28.2	32	7.8	4.4	-	-
VSNC-F-B52-D-N14-F8					NPT 1/4-18									
VSNC-F-B52-D-G14-F8-1B2					G 1/4								57.2	200.3

Type	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-F-B52-D-G14-F8	-	198.2	164.9	-	131.6	53.8	24	-	33.3	90.3	65.8	41.3	53.8	24
VSNC-F-B52-D-N14-F8														
VSNC-F-B52-D-G14-F8-1B2	166			160.6				34.4						

Ordering data – Valves

Directional control valve without solenoid coil			Directional control valve with solenoid coil		
	Part No.	Type		Part No.	Type
	577258	VSNC-F-B52-D-G14-F8		577296	VSNC-F-B52-D-G14-F8-1B2
	577263	VSNC-F-B52-D-N14-F8			

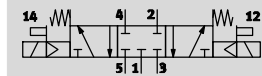
Solenoid valves VSNC

FESTO

Technical data – 5/3-way valve

Function

5/3-way valve, closed

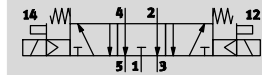


-  - Operating pressure
3 ... 10 bar

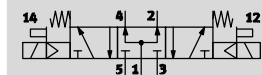
-  - Temperature range
-20 ... +60 °C



5/3-way valve, exhausted



5/3-way valve, pressurised



General technical data				
		VSNC-F-P53C-MD-G14-F8 VSNC-F-P53C-MD-N14-F8	VSNC-F-P53E-MD-G14-F8 VSNC-F-P53E-MD-N14-F8	VSNC-F-P53U-MD-G14-F8 VSNC-F-P53U-MD-N14-F8
Valve function		5/3-way, closed	5/3-way, exhausted	5/3-way, pressurised
Width	[mm]	32		
Nominal width	[mm]	7.2	6	6
Design		Piston spool		
Sealing principle		Soft		
Type of actuation		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Manual override		Non-detenting, non-detenting		
Type of mounting		With through-hole		
Mounting position		Any		
Max. tightening torque of valve mounting	[Nm]	3.5		
Non-overlapping		Yes		
Standard nominal flow rate	1 → 2 [l/min]	1200	800	800
b value		0.4	0.4	0.5
C value	[l/sbar]	5.2	4.4	2.1
Pneumatic connection	1, 3, 5 2, 4	G 1/4, NPT 1/4-18 Port pattern to NAMUR		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011J		
Product weight	[g]	345		

Solenoid valves VSNC



Technical data – 5/3-way valve

Operating and environmental conditions			
	VSNC-F-P53C-MD-G14-F8 VSNC-F-P53C-MD-N14-F8	VSNC-F-P53E-MD-G14-F8 VSNC-F-P53E-MD-N14-F8	VSNC-F-P53U-MD-G14-F8 VSNC-F-P53U-MD-N14-F8
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]	3 ... 10		
Ambient temperature [°C]	–20 ... +60		
Temperature of medium [°C]	–20 ... +60		
Corrosion resistance class CRC ¹⁾	2		
Maritime classification ²⁾	See certificate		

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.

2) Additional information www.festo.com/sp → Certificates.

Electrical data			
	VSNC-F-P53C-MD-G14-F8 VSNC-F-P53C-MD-N14-F8	VSNC-F-P53E-MD-G14-F8 VSNC-F-P53E-MD-N14-F8	VSNC-F-P53U-MD-G14-F8 VSNC-F-P53U-MD-N14-F8
Coil characteristics	See solenoid coil, to be ordered separately		
Switching time on [ms]	13	14	14
Switching time off [ms]	42	48	48
Changeover time [ms]	26	25	25

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

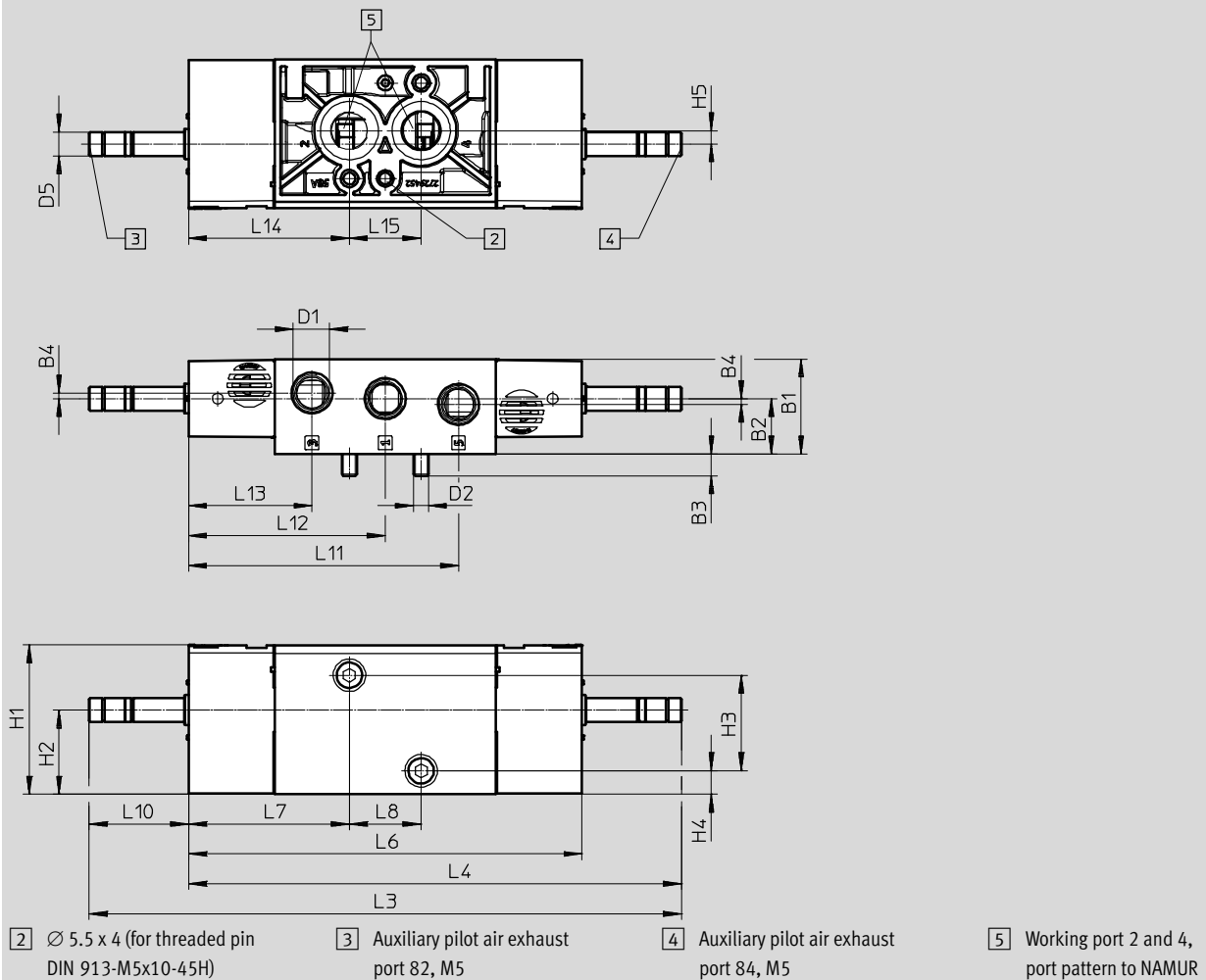
Solenoid valves VSNC

Technical data – 5/3-way valve

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	D1	D2	D5	H1	H2	H3	H4	H5
VSNC-F-P53C-MD-G14-F8	31.8	18.6	7.3	1.9	G 1/4	M5	8	49.9	28.2	32	7.8	4.4
VSNC-F-P53U-MD-G14-F8												
VSNC-F-P53E-MD-G14-F8												
VSNC-F-P53C-MD-N14-F8												
VSNC-F-P53U-MD-N14-F8					NPT 1/4							
VSNC-F-P53E-MD-N14-F8												

Type	L3	L4	L6	L7	L8	L10	L11	L12	L13	L14	L15
VSNC-F-P53C-MD-G14-F8	198.2	164.9	131.6	53.8	24	33.3	90.3	65.8	41.3	53.8	24
VSNC-F-P53U-MD-G14-F8											
VSNC-F-P53E-MD-G14-F8											
VSNC-F-P53C-MD-N14-F8											
VSNC-F-P53U-MD-N14-F8											
VSNC-F-P53E-MD-N14-F8											

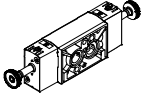
Solenoid valves VSNC

Technical data – 5/3-way valve

FESTO

Ordering data – Valves

Directional control valve without solenoid coil

	Part No.	Type
	577259	VSNC-F-P53C-MD-G14-F8
	577260	VSNC-F-P53U-MD-G14-F8
	577261	VSNC-F-P53E-MD-G14-F8
	577264	VSNC-F-P53C-MD-N14-F8
	577265	VSNC-F-P53U-MD-N14-F8
	577266	VSNC-F-P53E-MD-N14-F8

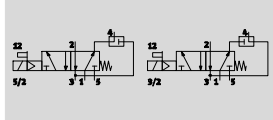
Solenoid valves VSNC

FESTO

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- ... -G14-FN VSNC- ... -N14-FN	VSNC- ... -G14-FN-1A1-EX4-A VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G VSNC- ... -G14-FN-3AA1+G
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 2, 4	G 1/4, NPT 1/4		G 1/4
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011]		
Product weight	[g]	415		

Operating and environmental conditions		VSNC- ... -G14-FN VSNC- ... -N14-FN	VSNC- ... -G14-FN-1A1-EX4-A VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G VSNC- ... -G14-FN-3AA1+G	
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 ¹⁾		2			
Maritime classification ²⁾		See certificate			

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.

2) Additional information www.festo.com/sp → Certificates.

Solenoid valves VSNC

FESTO

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

ATEX			
	VSNC- ... -G14-FN VSNC- ... -N14-FN	VSNC- ... -G14-FN-1A1-EX4-A VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G VSNC- ... -G14-FN-3AA1+G
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 IIIC 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	IP65
	–	IP67	IP67
	–		To IEC 60529, with socket
CE marking (see declaration of conformity)	As per EU Explosion Protection Directive (ATEX)		–

Electrical data			
	VSNC- ... -G14-FN VSNC- ... -N14-FN	VSNC- ... -G14-FN-1A1-EX4-A VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G VSNC- ... -G14-FN-3AA1+G
Electrical connection	–	Type A, to EN 175301-803	Type A, to EN 175301-803
Coil characteristics 24 V DC [W]	See solenoid coil, to be ordered separately	–	0.7
Coil characteristics 230 V AC, 50/60 Hz			
Pick-up power rating [VA]	–	–	6.2
Holding power [VA]	–	–	3.7
Duty cycle [%]	100		
Switching time on [ms]	32	35	35
Switching time off [ms]	92		
Permissible voltage fluctuations [%]	–	± 10	± 10

Materials	
1 Housing	Wrought aluminium alloy
2 Seals	NBR
3 Screws	High-alloy stainless steel
–	RoHS compliant

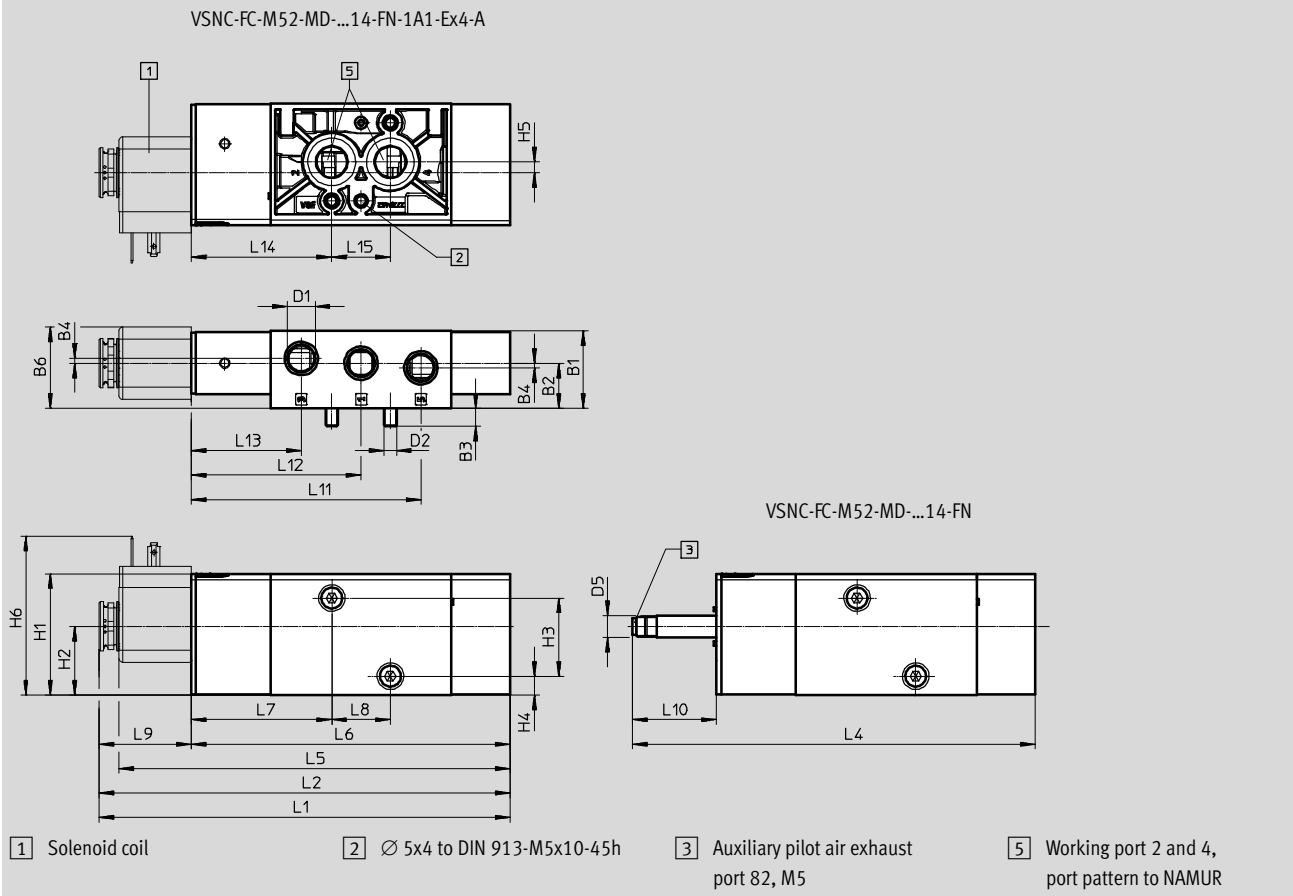
Solenoid valves VSNC

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

FESTO

Dimensions

Download CAD data → www.festo.com



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	G 1/4	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						NPT 1/4								–							
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						

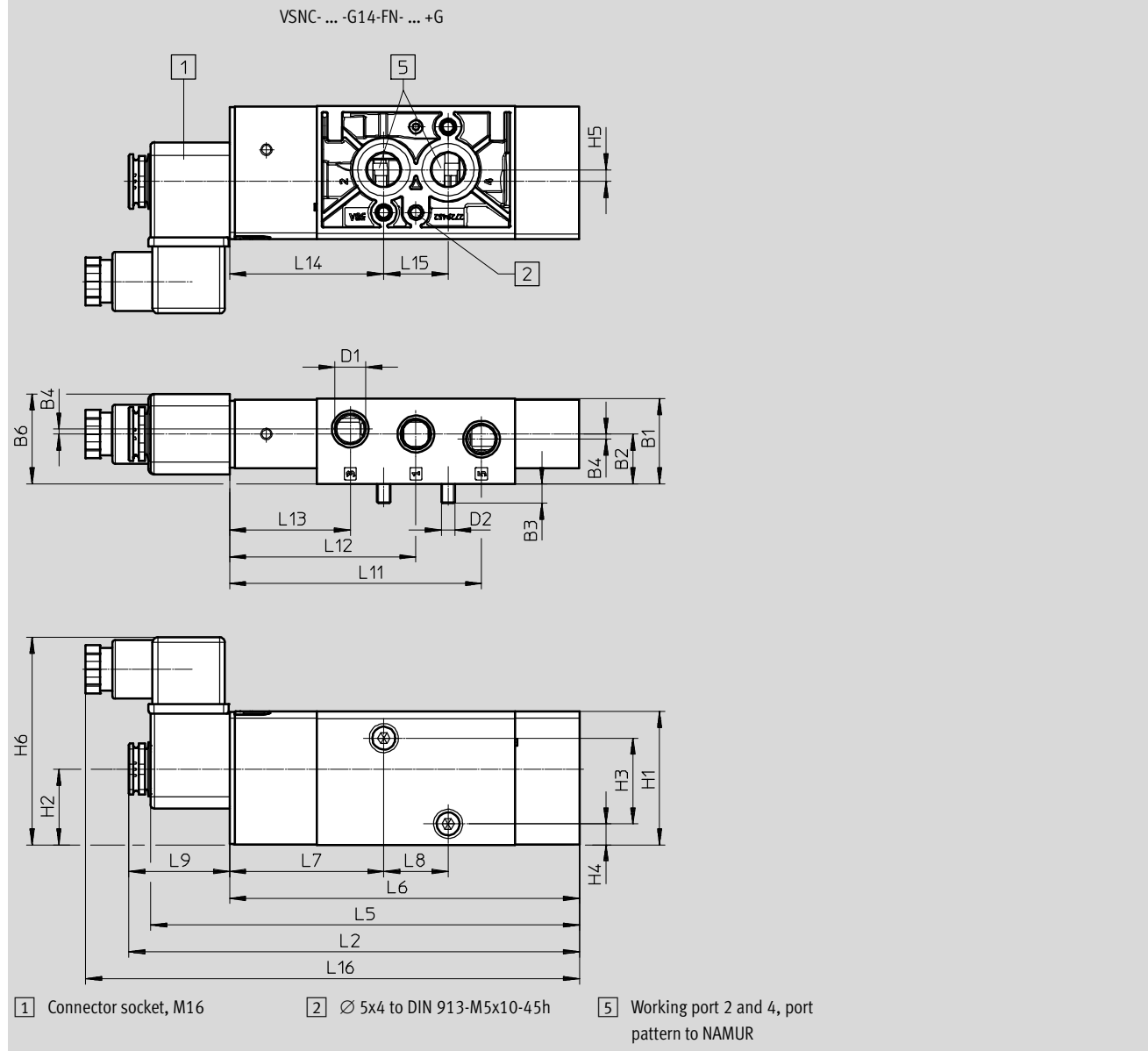
Solenoid valves VSNC

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

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	B6	D1	D2	H1	H2	H3	H4	H5	H6
VSNC-FC-M52-MD-G14-FN- ... +G	31.8	18.6	7.3	1.9	33.3	G 1/4	M5	49.8	28.2	32	7.8	4.4	77.5

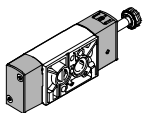
Type	L2	L5	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16
VSNC-FC-M52-MD-G14-FN- ... +G	168.3	160.1	130.6	57.6	24	37.7	94.1	69.6	45.1	57.6	24	184.4

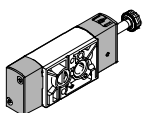
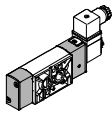
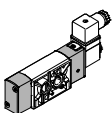
Solenoid valves VSNC

FESTO

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 solenoid coil and socket		
	8078398	VSNC-FC-M52-MD-G14-FN-1A1+G
	8078399	VSNC-FC-M52-MD-G14-FN-3AA1+G
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

- ★ Generally ready for shipping ex works in 24 hours
- ☆ Generally ready for shipping ex works in 5 days

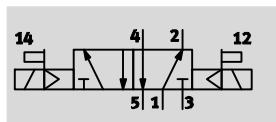
Solenoid valves VSNC

FESTO

Technical data – 5/2-way -...-FN, double solenoid

Function

5/2-way valve, double solenoid



-  - Operating pressure
1.5 ... 8 bar

-  - Temperature range
-20 ... +60 °C



General technical data		
	VSNC-F-B52-D-G14-FN VSNC-F-B52-D-N14-FN	VSNC-F-B52-D-G14-FN-1A1-EX4-A VSNC-F-B52-D-N14-FN-1A1-EX4-A
Valve function	5/2-way, double solenoid	
Width [mm]	32	
Design	Piston spool	
Sealing principle	Soft	
Type of actuation	Electrical	
Type of control	Piloted	
Pilot air supply port	Internal	
Exhaust air function	With flow control	
Manual override	Non-detenting, detenting	
Type of mounting	With through-hole	
Connection for venting hole	Not ducted	
Mounting position	Any	
Non-overlapping	Yes	
Standard nominal flow rate [l/min]	1350	
b value	0.4	
C value [l/sbar]	5.6	
Pneumatic connection	1, 3, 5 2, 4	G 1/4, NPT 1/4-18 Port pattern to NAMUR
Conforms to standard	VDI/VDE 3845 (NAMUR)	
Certificate issuing authority	DNVGL-TAA000011]	
Product weight [g]	461	

Operating and environmental conditions		
	VSNC-F-B52-D-G14-FN VSNC-F-B52-D-N14-FN	VSNC-F-B52-D-G14-FN-1A1-EX4-A VSNC-F-B52-D-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]	1.5 ... 8	
Ambient temperature [°C]	-20 ... +60	
Temperature of medium [°C]	-20 ... +60	
Corrosion resistance class CRC ¹⁾	2	
Maritime classification ²⁾	See certificate	

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.

2) Additional information www.festo.com/sp → Certificates.

Solenoid valves VSNC

Technical data – 5/2-way -...-FN, double solenoid



ATEX		
	VSNC-F-B52-D-G14-FN VSNC-F-B52-D-N14-FN	VSNC-F-B52-D-G14-FN-1A1-Ex4-A VSNC-F-B52-D-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 IIIC 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-F-B52-D-G14-FN VSNC-F-B52-D-N14-FN	VSNC-F-B52-D-G14-FN-1A1-Ex4-A VSNC-F-B52-D-N14-FN-1A1-Ex4-A
Electrical connection	–	Type A, to EN 175301-803
Coil characteristics	See solenoid coil, to be ordered separately	
Changeover time [ms]	20	
Permissible voltage fluctuations [%]	–	± 10

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

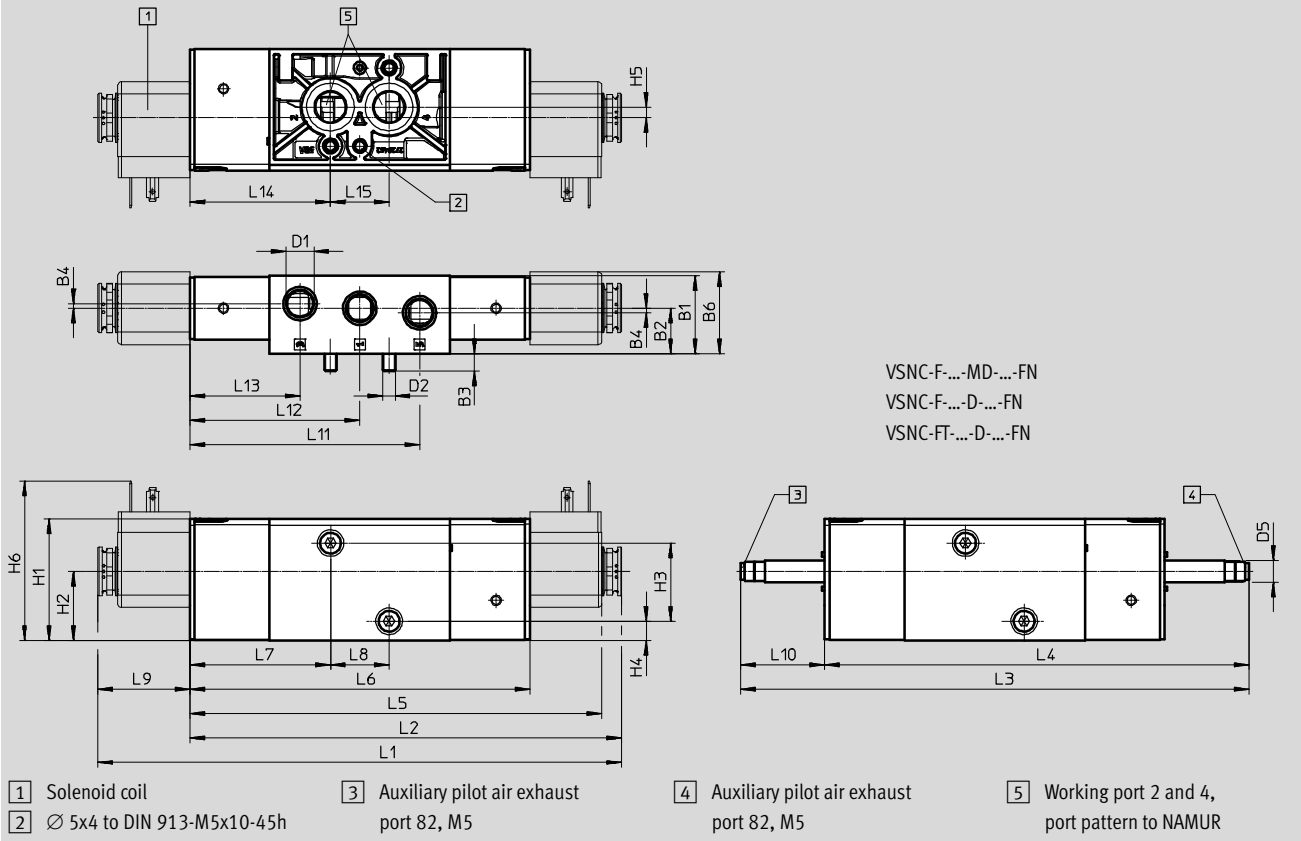
Solenoid valves VSNC

Technical data – 5/2-way -...-FN, double solenoid

FESTO

Dimensions

Download CAD data → www.festo.com



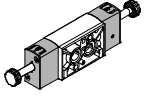
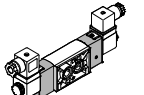
Type	B1	B2	B3	B4	B6	D1	D2	D5 Ø	H1	H2	H3	H4	H5	H6	L1							
VSNC-F-B52-D-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	–	–							
VSNC-F-B52-D-G14-FN-1A1-Ex4-A						NPT 1/4								65.1	214.5							
VSNC-F-B52-D-N14-FN														–	–							
VSNC-F-B52-D-N14-FN-1A1-Ex4-A														65.1	214.5							

Type	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-F-B52-D-G14-FN	–	208	173.6	–	139.2	57.6	24	–	34.4	94.1	69.6	45.1	57.6	24
VSNC-F-B52-D-G14-FN-1A1-Ex4-A	176.9			168.7				37.7						
VSNC-F-B52-D-N14-FN	–			–				–						
VSNC-F-B52-D-N14-FN-1A1-Ex4-A	176.9			168.7				37.7						

Solenoid valves VSNC



Technical data – 5/2-way -...-FN, double solenoid

Ordering data – Valves		
Directional control valve without solenoid coil		
	Part No.	Type
	577268	VSNC-F-B52-D-G14-FN
	577273	VSNC-F-B52-D-N14-FN
Directional control valve with Ex i solenoid coil including socket		
	577282	VSNC-F-B52-D-G14-FN-1A1-Ex4-A
	577287	VSNC-F-B52-D-N14-FN-1A1-Ex4-A

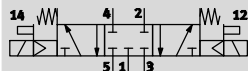
Solenoid valves VSNC

Technical data – 5/3-way -...-FN

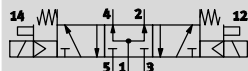
FESTO

Function

5/3-way valve, closed



5/3-way valve, exhausted



5/3-way valve, pressurised



 Operating pressure
3 ... 8 bar

 Temperature range
-20 ... +60 °C



General technical data				
		VSNC-F-P53C-MD-G14-FN VSNC-F-P53C-MD-N14-FN	VSNC-F-P53U-MD-G14-FN VSNC-F-P53U-MD-N14-FN	VSNC-F-P53E-MD-G14-FN VSNC-F-P53E-MD-N14-FN
Valve function		5/3		
		Closed	Pressurised	Exhausted
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		Non-detenting, detenting		
Type of mounting		With through-hole		
Connection for venting hole		Not ducted		
Mounting position		Any		
Non-overlapping		Yes		
Standard nominal flow rate	[l/min]	1250	950	1050
b value		0.4	0.5	0.4
C value	[l/sbar]	5.2	2.1	4.4
Pneumatic connection	1, 3, 5 2, 4	G 1/4, NPT 1/4-18 Port pattern to NAMUR		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011]		
Product weight	[g]	461		

Solenoid valves VSNC

Technical data – 5/3-way -...-FN



Operating and environmental conditions			
	VSNC-F-P53C-MD-G14-FN VSNC-F-P53C-MD-N14-FN	VSNC-F-P53U-MD-G14-FN VSNC-F-P53U-MD-N14-FN	VSNC-F-P53E-MD-G14-FN VSNC-F-P53E-MD-N14-FN
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]	3 ... 8		
Ambient temperature [°C]	–20 ... +60		
Temperature of medium [°C]	–20 ... +60		
Corrosion resistance class CRC ¹⁾	2		
Maritime classification ²⁾	See certificate		

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.

2) Additional information www.festo.com/sp → Certificates.

Electrical data			
	VSNC-F-P53C-MD-G14-FN VSNC-F-P53C-MD-N14-FN	VSNC-F-P53U-MD-G14-FN VSNC-F-P53U-MD-N14-FN	VSNC-F-P53E-MD-G14-FN VSNC-F-P53E-MD-N14-FN
Coil characteristics	See solenoid coil, to be ordered separately		
Switching time on [ms]	23		
Switching time off [ms]	103		
Changeover time [ms]	55		

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

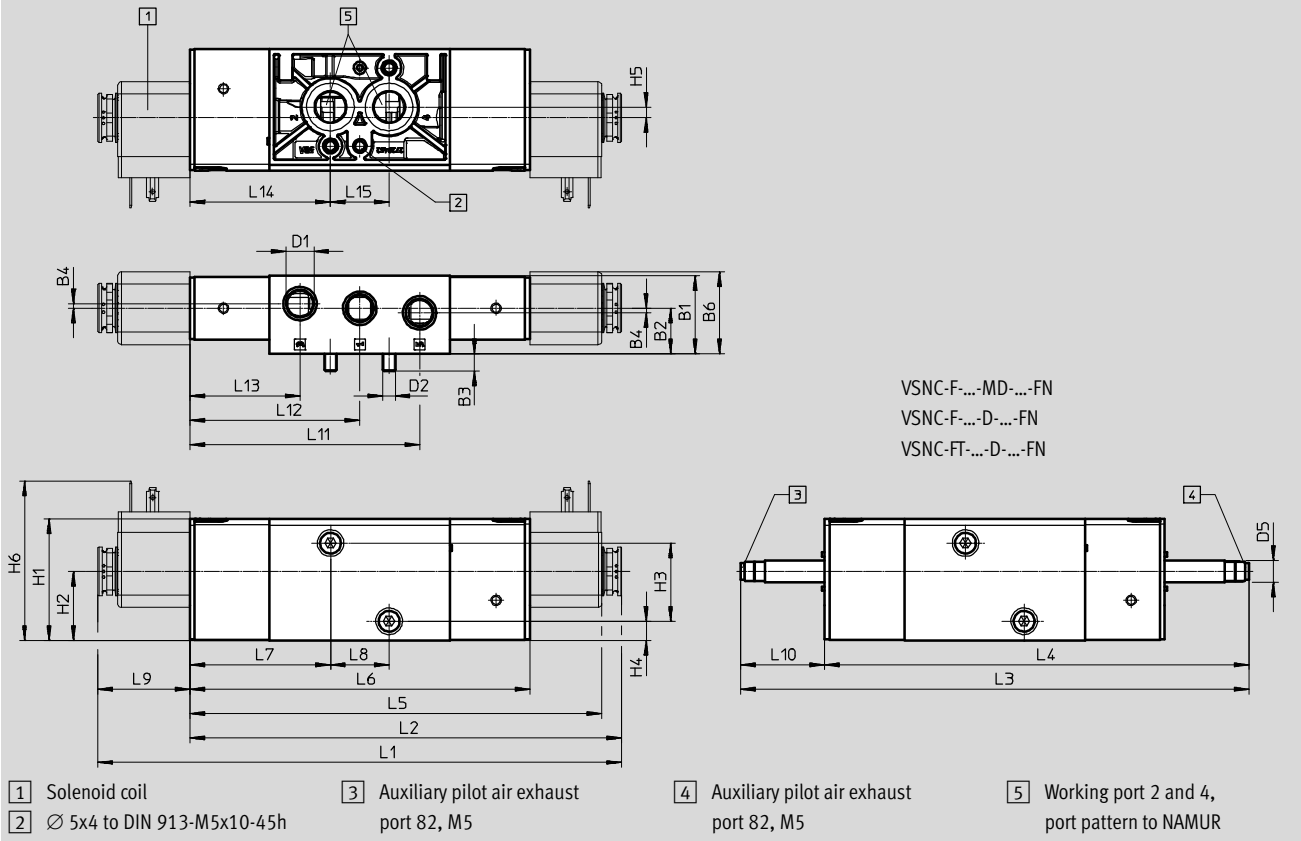
Solenoid valves VSNC

Technical data – 5/3-way -...-FN

FESTO

Dimensions

Download CAD data → www.festo.com



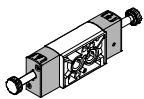
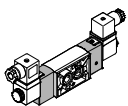
Type	B1	B2	B3	B4	B6	D1	D2	D5 Ø	H1	H2	H3	H4	H5	H6	L1
VSNC-F-P53C-MD-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	-	-
VSNC-F-P53U-MD-G14-FN															
VSNC-F-P53E-MD-G14-FN															
VSNC-F-P53C-MD-N14-FN															
VSNC-F-P53U-MD-N14-FN															
VSNC-F-P53E-MD-N14-FN						NPT 1/4									

Type	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-F-P53C-MD-G14-FN	-	208	173.6	-	139.2	57.6	24	-	34.4	94.1	69.6	45.1	57.6	24
VSNC-F-P53U-MD-G14-FN														
VSNC-F-P53E-MD-G14-FN														
VSNC-F-P53C-MD-N14-FN														
VSNC-F-P53U-MD-N14-FN														
VSNC-F-P53E-MD-N14-FN														

Solenoid valves VSNC

Technical data – 5/3-way -...-FN

FESTO

Ordering data – Valves		
Directional control valve without solenoid coil		
	Part No.	Type
	577269	VSNC-F-P53C-MD-G14-FN
	577270	VSNC-F-P53U-MD-G14-FN
	577271	VSNC-F-P53E-MD-G14-FN
Directional control valve with 24 V DC solenoid coil		
	577274	VSNC-F-P53C-MD-N14-FN
	577275	VSNC-F-P53U-MD-N14-FN
	577276	VSNC-F-P53E-MD-N14-FN

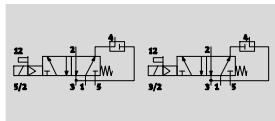
Solenoid valves VSNC

FESTO

Technical data – 3/2-way or 5/2-way -...-FN poppet seat, 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-FTC-M52-MD-G14-FN VSNC-FTC-M52-MD-N14-FN	VSNC-FTC-M52-MD-G14-FN-1A1
Valve function		3/2-way or 5/2-way, convertible	
Width	[mm]	32	
Design		Poppet seat	
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		Non-detenting, detenting	
Type of mounting		With through-hole	
Connection for venting hole		Not ducted	
Mounting position		Any	
Non-overlapping		No	
Direction of flow		Non-reversible	
Standard nominal flow rate	1 → 2 [l/min]	800	
	Exhaust return 4 → 3 [l/min]	800	
b value		0.15	
C value	[l/sbar]	3.96	
Pneumatic connection	1, 3, 5	G 1/4	
	2, 4	Port pattern to NAMUR	
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011]	
Degree of protection		–	IP65, IP67
Product weight	[g]	404	440

Solenoid valves VSNC



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

Operating and environmental conditions		
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 ¹⁾	2	
Maritime classification ²⁾	See certificate	

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.

2) Additional information www.festo.com/sp → Certificates.

Electrical data			
		VSNC-FTC-M52-MD-G14-FN VSNC-FTC-M52-MD-N14-FN	VSNC-FTC-M52-MD-G14-FN-1A1
Electrical connection		–	Type A to EN 175301-803
Coil characteristics, 24 V DC	[W]	See solenoid coil, to be ordered separately	0.7
Switching time on	[ms]	16	16
Switching time off	[ms]	120	120
Permissible voltage fluctuations	[%]	–	±10

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

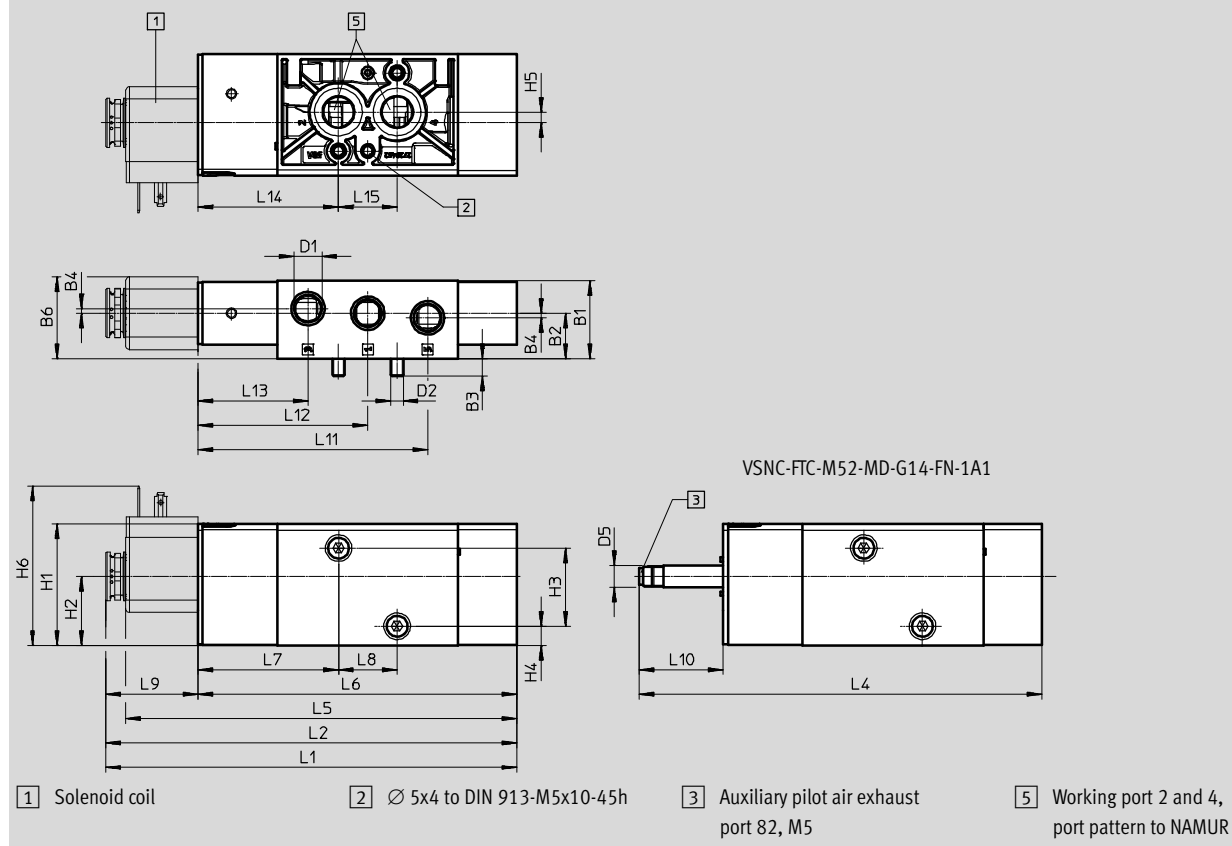
Solenoid valves VSNC

FESTO

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

Dimensions

Download CAD data → www.festo.com



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

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

Ordering data – Valves

Directional control valve without solenoid coil

	Part No.	Type
	577277	VSNC-FTC-M52-MD-G14-FN
	577279	VSNC-FTC-M52-MD-N14-FN

Directional control valve with 24 V DC solenoid coil

	577297	VSNC-FTC-M52-MD-G14-FN-1A1
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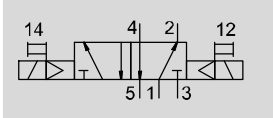
Solenoid valves VSNC

Technical data – 5/2-way, double solenoid

FESTO

Function

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



-  - Operating pressure
1.5 ... 8 bar

-  - Temperature range
-20 ... +60 °C



General technical data		
	VSNC-FT-B52-D-G14-FN VSNC-FT-B52-D-N14-FN	VSNC-FT-B52-D-G14-FN-1A1
Valve function	5/2-way, double solenoid	
Width [mm]	32	
Design	Poppet seat	
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	Non-detenting, detenting	
Type of mounting	With through-hole	
Connection for venting hole	Not ducted	
Mounting position	Any	
Non-overlapping	No	
Direction of flow	Non-reversible	
Standard nominal flow rate [l/min]	1000	
b value	0.24	
C value [l/sbar]	4.6	
Pneumatic connection 1, 3, 5	G 1/4 or NPT 1/4-18	
Pneumatic connection 2, 4	Port pattern to NAMUR	
Conforms to standard	VDI/VDE 3845 (NAMUR)	
Certificate issuing authority	DNVGL-TAA000011J	
Degree of protection	-	IP65, IP67
Product weight [g]	519	670

Solenoid valves VSNC

Technical data – 5/2-way, double solenoid



Operating and environmental conditions		
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]	1.5 ... 8
Ambient temperature	[°C]	–20 ... +60
Temperature of medium	[°C]	–20 ... +60
Corrosion resistance class CRC ¹⁾	2	
Maritime classification ²⁾	See certificate	

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.

2) Additional information www.festo.com/sp → Certificates.

Electrical data			
		VSNC-FT-B52-D-G14-FN VSNC-FT-B52-D-N14-FN	VSNC-FT-B52-D-G14-FN-1A1
Electrical connection		–	Type A to EN 175301-803
Coil characteristics, 24 V DC	[W]	See solenoid coil, to be ordered separately	0.7
Changeover time	[ms]	16	16
Permissible voltage fluctuations	[%]	–	±10

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

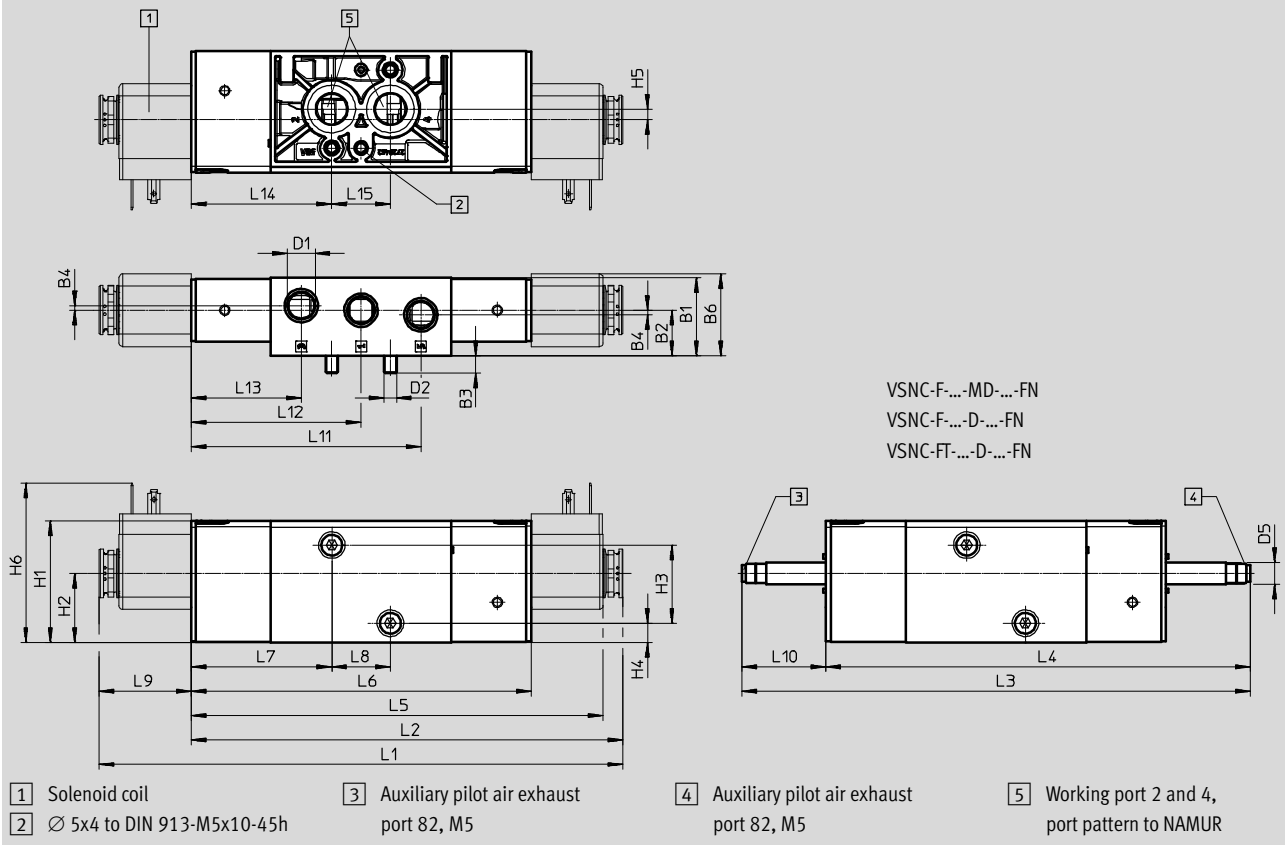
Solenoid valves VSNC

Technical data – 5/2-way, double solenoid

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	B6	D1	D2	D5 Ø	H1	H2	H3	H4	H5	H6	L1
VSNC-F-P53C-MD-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	-	-
VSNC-F-P53U-MD-G14-FN															
VSNC-F-P53E-MD-G14-FN															
VSNC-F-P53C-MD-N14-FN															
VSNC-F-P53U-MD-N14-FN						NPT 1/4									
VSNC-F-P53E-MD-N14-FN															

Type	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-F-P53C-MD-G14-FN	-	208	173.6	-	139.2	57.6	24	-	34.4	94.1	69.6	45.1	57.6	24
VSNC-F-P53U-MD-G14-FN														
VSNC-F-P53E-MD-G14-FN														
VSNC-F-P53C-MD-N14-FN														
VSNC-F-P53U-MD-N14-FN														
VSNC-F-P53E-MD-N14-FN														

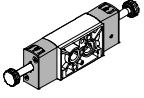
Solenoid valves VSNC

Technical data – 5/2-way, double solenoid

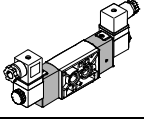
FESTO

Ordering data – Valves

Directional control valve without solenoid coil

	Part No.	Type
	577278	VSNC-FT-B52-D-G14-FN
	577280	VSNC-FT-B52-D-N14-FN

Directional control valve with solenoid coil

	577298	VSNC-FT-B52-D-G14-FN-1A1
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Solenoid valves VSNC

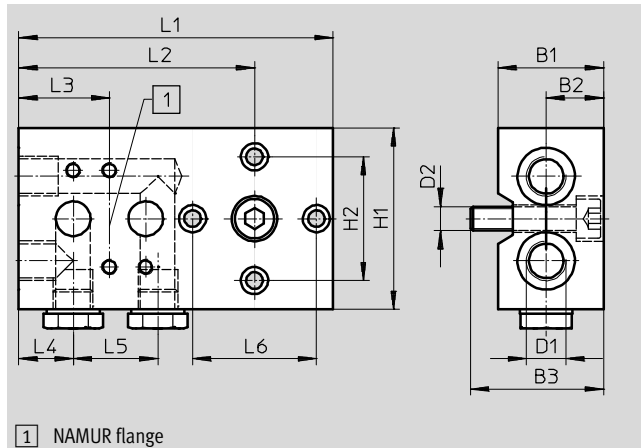
Accessories

FESTO

Connection kit

Mounting position: Any
Type of mounting: With through-hole
Operating pressure: 0 ... 10 bar
Operating medium: Compressed air to
ISO 8573-1:2010 [7:-:-]
Degree of protection IP65

Materials: Wrought aluminium alloy
Seals: NBR
Contains paint-wetting impairment
substances, RoHS-compliant

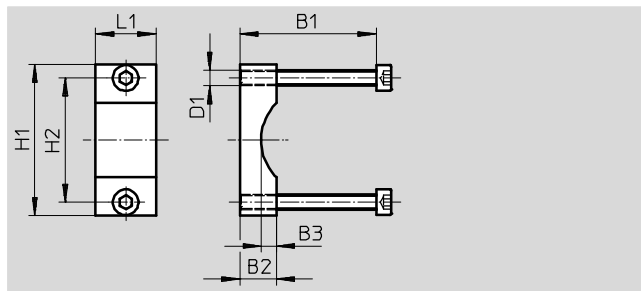


Dimensions [mm] and ordering data															Part No.	Type
B1	B2	B3	D1	D2	H1	H2	L1	L2	L3	L4	L5	L6	CRC ¹⁾			
35	19	44	G¼	M8	60	41	104	78	30	18	28	41	4	563396	VABS-S7-S-G14	

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.

Mounting bracket

Materials: Bracket:
Wrought aluminium alloy
Contains paint-wetting impairment
substances, RoHS-compliant



Dimensions [mm] and ordering data									
B1	B2	B3	D1	H1	H2	L1	CRC ¹⁾	Part No.	Type
45/65	12	5	M5	50	41	20	3	563403	VAME-S7-Y

- 1) Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.

Solenoid valves VSNC

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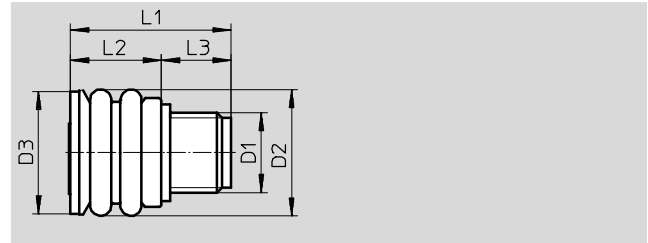
Accessories

Exhaust protection

Materials:

EPDM, PA

Contains paint-wetting impairment substances, RoHS-compliant



Dimensions [mm] and ordering data								Part No.	Type
D1	D2	D3	L1	L2	L3	CRC ¹⁾			
G1/4, 1/4NPT	21	20.5	26.5	15	11.5	3		563400	VABD-D3-SN-G14

1) Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.

Ordering data – Solenoid coil			
	Coil characteristics	Part No.	Type
Electrical port pattern to industrial standard type B		Technical data → Internet: vacf	
	12 V DC; 3.4 W	8030801	VACF-B-B2-5
	24 V DC; 3.3 W	8030802	VACF-B-B2-1
	48 V DC; 3.4 W	8030803	VACF-B-B2-7
	24 V AC; 50/60 Hz, pick-up power rating 3.9 VA, holding power 2.6 VA	8030804	VACF-B-B2-1A
	48 V AC; 50/60 Hz, pick-up power rating 3.9 VA, holding power 2.7 VA	8030805	VACF-B-B2-7A
	110/120 V AC; 50/60 Hz, pick-up power rating 4.4 VA, holding power 3.3 VA	8030806	VACF-B-B2-16B
	230/240 V AC; 50/60 Hz, pick-up power rating 5.8 VA, holding power 4.6 VA	8030808	VACF-B-B2-3W
Electrical port pattern to DIN EN 175301-803 type A			
	12 V DC; 2.8 W	8030821	VACF-A-A1-5
	24 V DC; 2.6 W	★ 8030822	VACF-A-A1-1
	48 V DC; 2.8 W	8030823	VACF-A-A1-7
	24 V AC; 50/60 Hz, pick-up power rating 2.5 VA, holding power 1.7 VA	8030824	VACF-A-A1-1A
	48 V AC; 50/60 Hz, pick-up power rating 2.5 VA, holding power 1.7 VA	8030825	VACF-A-A1-7A
	110/120 V AC; 50/60 Hz, pick-up power rating 2.7 VA, holding power 1.9 VA	8030826	VACF-A-A1-16B
	230/240 V AC; 50/60 Hz, pick-up power rating 3.9 VA, holding power 2.8 VA	8030828	VACF-A-A1-3W

Festo core product range

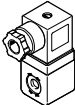
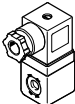
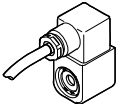
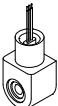
★ Generally ready for shipping ex works in 24 hours

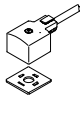
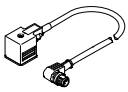
☆ Generally ready for shipping ex works in 5 days

Solenoid valves VSNC

Accessories

FESTO

Ordering data – Solenoid coil				
	Coil characteristics	Part No.	Type	
Type of ignition protection: intrinsically safe Ex ia		Technical data ➔ Internet: vacn		
	28V	8029139	VACN-N-A1-1-EX-4-A	
Type of ignition protection: non-sparking Ex nA				
	24 V DC; 2.1 W	8029136	VACN-N-A1-1-EX2-N	
	110 V AC; 50 Hz, pick-up power rating 6.9 VA, holding power 4.1 VA	8029137	VACN-N-A1-16B-EX2-N	
	110 V AC; 60 Hz, pick-up power rating 5.4 VA, holding power 3.2 VA			
	230 V AC; 50 Hz, pick-up power rating 6.9 VA, holding power 4.1 VA	8029138	VACN-N-A1-3A-EX2-N	
	230 V AC; 60 Hz, pick-up power rating 5.4 VA, holding power 3.3 VA			
Degree of protection IP65 with socket				
	24 V DC; 0.7 W	★ 8029144	VACN-N-A1-1	
	110 V AC; 50 Hz, pick-up power rating 5.2 VA, holding power 3.1 VA	8029134	VACN-N-A1-16B	
	110 V AC; 60 Hz, pick-up power rating 4.2 VA, holding power 2.5 VA			
	230 V AC; 50 Hz, pick-up power rating 6.2 VA, holding power 3.7 VA	8029135	VACN-N-A1-3A	
	230 V AC; 60 Hz, pick-up power rating 4.9 VA, holding power 2.9 VA			
Type of ignition protection: encapsulated Ex me				
	230 V AC; 50/60 Hz, power 2.1 VA	8029141	VACN-N-K1-3A-EX4-M	
	110 V AC; 50/60 Hz, power 2.4 VA	8029142	VACN-N-K1-16B-EX4-M	
	24 V DC; 2.6 W	8029143	VACN-N-K1-1-EX4-M	
Type of ignition protection: encapsulated AEx m, Class 1, Div 1 to NEC 500				
	230 V AC; 50 Hz, pick-up power rating 11.5 VA, holding power 8.0 VA	8029140	VACN-N-K11-3A-0.5-U4-M	
	120 V AC; 60 Hz, pick-up power rating 10.0 VA, holding power 6.8 VA	8029145	VACN-N-K11-16B-0.5-U4-M	
	24 V DC; 4.6 W	8029146	VACN-N-K11-1-0.5-U4-M	

Ordering data					
	Description	Nominal operating voltage [V]	Cable length [m]	Part No.	Type
Connecting cable					
Technical data → Internet: kmc					
	For valves with D and N1 solenoid coils	24 DC	• Signal status display	2.5	30931 KMC-1-24 DC-2,5-LED
				5	30933 KMC-1-24 DC-5-LED
		230 AC	–	2.5	30932 KMC-1-230 AC-2,5
				5	30934 KMC-1-230 AC-5
	For valves with F solenoid coils	24 DC	• Signal status display	2.5	30935 KMF-1-24DC-2,5-LED
Connecting cable					
Technical data → Internet: nebv					
	For valves with D and N1 solenoid coils. Angled socket, connection diagram type A, EN 175301-803	230 AC/DC	–	0.6	3579466 NEBV-A1W3-K-0,6-N-LE3
		110 AC/DC	–	0.3	3579461 NEBV-A1W3-K-0,3-N-M12W3
				0.6	3579462 NEBV-A1W3-K-0,6-N-M12W3
		24 AC/DC	• Signal status display	0.3	3679771 NEBV-A1W3-P-0,3-N-M12W3
			• Protective circuit	0.6	3679772 NEBV-A1W3-P-0,6-N-M12W3
				0.6	3679776 NEBV-A1W3-P-K-0,6-LE3

Festo core product range

- ★ Generally ready for shipping ex works in 24 hours
- ☆ Generally ready for shipping ex works in 5 days

Solenoid valves VSNC

Accessories

FESTO

Ordering data			
	Description	Part No.	Type
Plug socket		Technical data ➔ Internet: mssd	
	3-pin, angled socket, square design connection pattern type B, to industrial standard 11 mm	539710	MSSD-F-M16
	3-pin, angled socket, square design connection pattern type A, to DIN EN 175301-803, type A	539709	MSSD-C-M16
	3-pin, IP67 socket to IEC 60529, type B	192746	MSSD-F-S-M16
	4-pin, IP67 socket to IEC 60529, type A	192748	MSSD-C-S-M16
	3-pin, angled socket, square design, IP65 to DIN EN 175301-803, type A	34583	MSSD-C
Push-in fittings QS		Technical data ➔ Internet: qs	
	G male thread with internal hex	186108	QS-G1/4-6-I
		186110	QS-G1/4-8-I
		186112	QS-G1/4-10-I
	NPT male thread with internal hex	572320	QB-1/4-1/4-I-U
		572321	QB-1/4-5/16-I-U
		572322	QB-1/4-3/8-I-U
Silencer U		Technical data ➔ Internet: u	
	G male thread, polymer design	534223	U-1/4-20
		2316	U-1/4
	G male thread, die-cast metal design	6842	U-1/4-B
		NPT male thread, die-cast metal design	12639
Illuminating seal		Technical data ➔ Internet: mc-ld	
	For F solenoid coils	19143	MF-LD-12-24 DC
		19144	MF-LD-230 AC
	For valves with D and N1 solenoid coils	19145	MC-LD-12-24 DC
		19146	MC-LD-230 AC
Cover cap			
	For valves	8028240	VAMC-B10-20-CH2