

Solenoid valves VSNC

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Key features, product range overview VSNC-...

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, DLP. They can also be mounted on actuators without a NAMUR interface, e.g. diaphragm actuators, thanks to appropriate accessories such as a connection set.

They are designed for the requirements of process automation. A mechanical spring (single solenoid valves) ensures safe switching to the initial position in the event of a power failure. Working ports 2, 4 on valves VSNC-F ...-P2 are designed in accordance with VDI/VDE 3845 NAMUR.

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 cap. 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, brass armature tube and IP65 coils

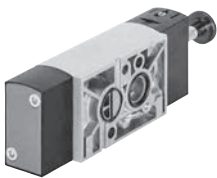
-  - Voltage
12, 24, 48 V DC
24, 48, 120, 230 V AC
-  - Operating pressure
1.5 ... 10 bar
-  - Temperature range
-20 ... 60°C

Versatile

- 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
- Pilot air for VSNC-F ...-P2
CNOMO connection to ISO 15218
- 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-F ... -FN



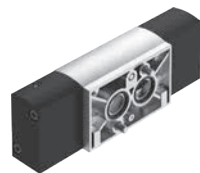
VSNC piston spool

VSNC-FT ... -FN



VSNC poppet seat

VSNC-F ... -P2



VSNC with IP65 solenoid



VSNC with Ex-ia solenoid



VSNC with FM solenoid



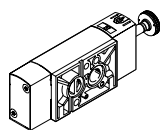
VSNC with Ex-nA solenoid



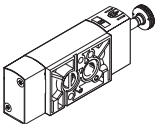
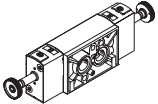
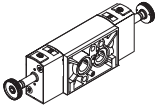
VSNC with Ex-m solenoid

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

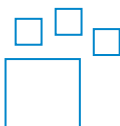
VSNC-F8



- Material of valve cap: Plastic/metal
- Material of armature: Brass
- Pilot air (armature tube incoming air), unprotected

Design	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	13
	VSNC-FC-M52-MD-N14-F8	1/4 NPT			
5/2-way valve, double solenoid					
	VSNC-F-B52-D-G14-F8	G 1/4	VDI/VDE 3845 NAMUR	1350	18
	VSNC-F-B52-D-N14-F8	1/4 NPT			
5/3-way valve					
	VSNC-F-P53C-MD-G14-F8	G 1/4	VDI/VDE 3845 NAMUR	1250	21
	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	1/4 NPT		1250	
	VSNC-F-P53U-MD-N14-F8	1/4 NPT		950	
	VSNC-F-P53E-MD-N14-F8	1/4 NPT		1050	

Ordering data – Product options



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

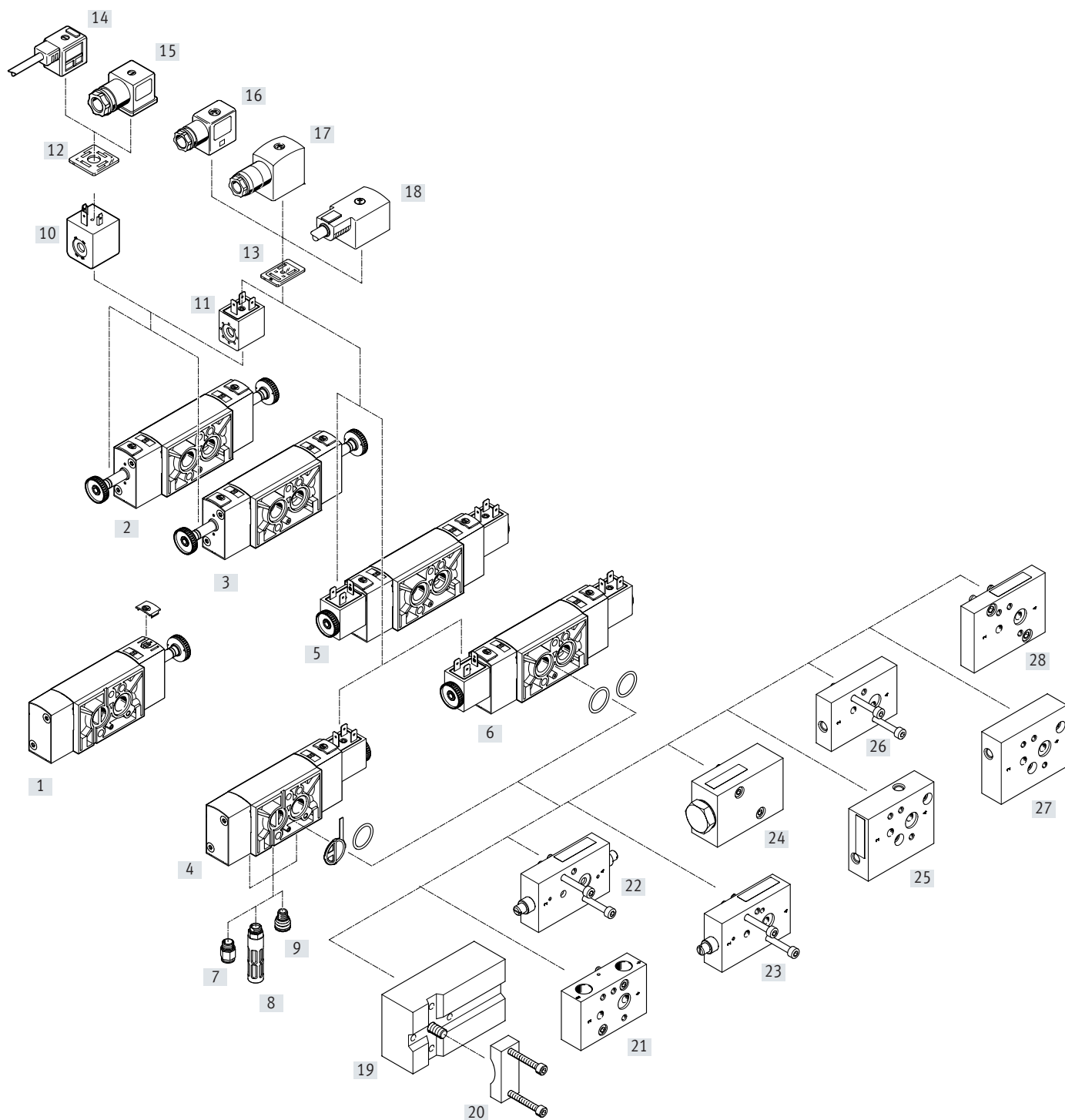
The configurator can be found under
Products on the DVD or at
→ www.festo.com/catalogue/...

Part no. 8026033
Type 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- and 3/2-way, single solenoid	■	■ PNO	■	■	■	■	■	■	■ PNO	■	■	■	■	■
5/2-way, double solenoid	■	■ PNO	■	■	■	■	■	■	■ PNO	■	■	■	■	■
5/3-way, G	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, B	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, E	■	■	■	■	■	■	■	■	■	■	■	■	■	■

■ = Can be combined as part of a modular system
PNO = Can be ordered with part number as a fast seller

Peripherals overview – VSNC-...-F8

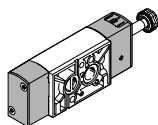


Peripherals overview – VSNC-...-F8

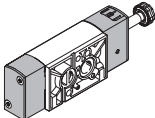
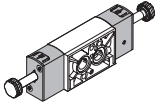
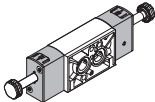
Mounting components and accessories		Brief description	→ Page / Internet
[1]	VSNC-...-F8 Solenoid valves	3/2-way and 5/2-way single solenoid valve with converting seal, plastic cover and brass armature tube for controlling single-acting or double-acting actuators	13
[2]	VSNC-...-F8 Solenoid valves	5/2-way double solenoid valve with plastic cover and brass armature tube for controlling double-acting actuators	18
[3]	VSNC-...-F8 Solenoid valves	5/3-way valve, normally open, closed or exhausted with plastic cover and brass armature tube for controlling double-acting actuators	21
[4]	VSNC-...-F8 Solenoid valves	3/2-way and 5/2-way single solenoid valve with converting seal, plastic cover, brass armature tube and 24 V DC solenoid coil for controlling single-acting or double-acting actuators	13
[5]	VSNC-...-F8 Solenoid valves	5/2-way double solenoid valve with plastic cover, brass armature tube and 24 V DC solenoid coil for controlling double-acting actuators	18
[6]	VSNC-...-F8 Solenoid valves	5/3-way valve, normally open, closed or exhausted with plastic cover, brass armature tube and 24 V DC solenoid coil for controlling double-acting actuators	21
[7]	QS Push-in fitting	For connecting tubing with standard O.D.	67
[8]	U Silencer	–	67
[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	65
[10]	VACF-A Solenoid coil	Electrical plug pattern to DIN EN 175301-803, type A	65
[11]	VACF-B Solenoid coil	Electrical plug pattern to Festo standard for MSSD-F	65
[12]	MC-LD Illuminating seal	Illuminating seal for indicating the switching status	68
[13]	MF-LD Illuminating seal	Illuminating seal for indicating the switching status	68
[14]	KMC Connecting cable	–	67
[15]	MSSD-C Plug socket	Electrical plug pattern to DIN EN 175301-803, type A	67
[16]	MSSD-F Plug socket	Electrical plug pattern to Festo standard with screw terminal connection	67
[17]	MSSD-F-S Plug socket	Electrical plug pattern to Festo standard with insulation displacement connection	67
[18]	KMF Connecting cable	–	kmf
[19]	VABS-S7-S-G14 Connection set	Sub-base for attaching the valve to a NAMUR rib	57
[20]	VAME-S7-Y Mounting bracket	Alternative (instead of screw) for mounting the valve on a NAMUR rib using a mounting bracket	64
[21]	VABS-B14-T-F ... 14 Connector plate	With the sub-base the NAMUR valve can be used as an inline valve with G1/4" and NPT 1/4" thread	57
[22]	VABF-B14-F1B1P2-FF14 Throttle plate (double-acting)	Flow control for double-acting quarter turn actuators	58
[23]	VABF-B14-F1B1P1-FF14 Throttle plate (single-acting)	Flow control for single-acting quarter turn actuators	58
[24]	VABF-B14-M3-...14 Exhaust plate	Exhausting a quarter turn actuator with NAMUR connection via a valve terminal or a normal inline valve G1/4 or 1/4 NPT	59
[25]	VABS-B14-90-FF14 Mounting plate	NAMUR connection can be turned 90° It is also possible to mount a 1/4" NAMUR valve on a 1/2" actuator	60
[26]	VABS-B14-180-FF14 Mounting plate	NAMUR connection can be turned 180° It is also possible to mount a 1/4" NAMUR valve on a 1/2" actuator	61
[27]	VABS-B14-270-FF14 Mounting plate	NAMUR connection can be turned 270° It is also possible to mount a 1/4" NAMUR valve on a 1/2" actuator	62
[28]	VABA-B14-FL12-FL14 Mounting plate	Mounting plate with NAMUR connection 1/2 and 1/4	63

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

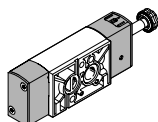
VSNC-F ... -FN



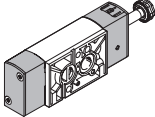
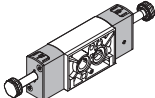
- Design: Piston spool
- Material of valve cap: Aluminium/metal
- Material of armature: Stainless steel
- Pilot air (incoming air of armature tube), protected

Design	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	25
	VSNC-FC-M52-MD-N14-FN	1/4 NPT			
	VSNC-FC-M52-MD-G14-FN-1A1-EX4-A	G 1/4			
	VSNC-FC-M52-MD-N14-FN-1A1-EX4-A	1/4 NPT			
	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	30
	VSNC-F-B52-D-N14-FN	1/4 NPT			
	VSNC-F-B52-D-G14-FN-1A1-EX4-A	G 1/4			
	VSNC-F-B52-D-N14-FN-1A1-EX4-A	1/4 NPT			
5/3-way valve ...-FN					
	VSNC-F-P53C-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1250	34
	VSNC-F-P53U-MD-G14-FN			950	
	VSNC-F-P53E-MD-G14-FN			1050	
	VSNC-F-P53C-MD-N14-FN	1/4 NPT		1250	
	VSNC-F-P53U-MD-N14-FN			950	
	VSNC-F-P53E-MD-N14-FN			1050	

VSNC-FT ... -FN

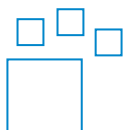


- Design: Poppet seat
- Material of valve cap: Aluminium/metal
- Material of armature: Stainless steel
- Pilot air (incoming air of armature tube), protected

Design	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	38
	VSNC-FTC-M52-MD-N14-FN	1/4 NPT			
	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	41
	VSNC-FT-B52-D-N14-FN	1/4 NPT			
	VSNC-FT-B52-D-G14-FN-1A1	G 1/4			

Key features, 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. 8026033
Type VSNC

Coils	IP65			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- and 3/2-way, single solenoid	■ PNO	■	■	■	■	■	■	■	■	■	■	■	■
5/2-way, double solenoid	■ PNO	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, G	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, B	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, E	■	■	■	■	■	■	■	■	■	■	■	■	■

■ = Can be combined as part of a modular system
PNO = Can be ordered with part number as a fast seller

Intrinsically safe coil VACN-...-Ex4A



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



Non-sparking coil VACN-...-Ex2N



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



Encapsulated coil VACN-...-Ex4M



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



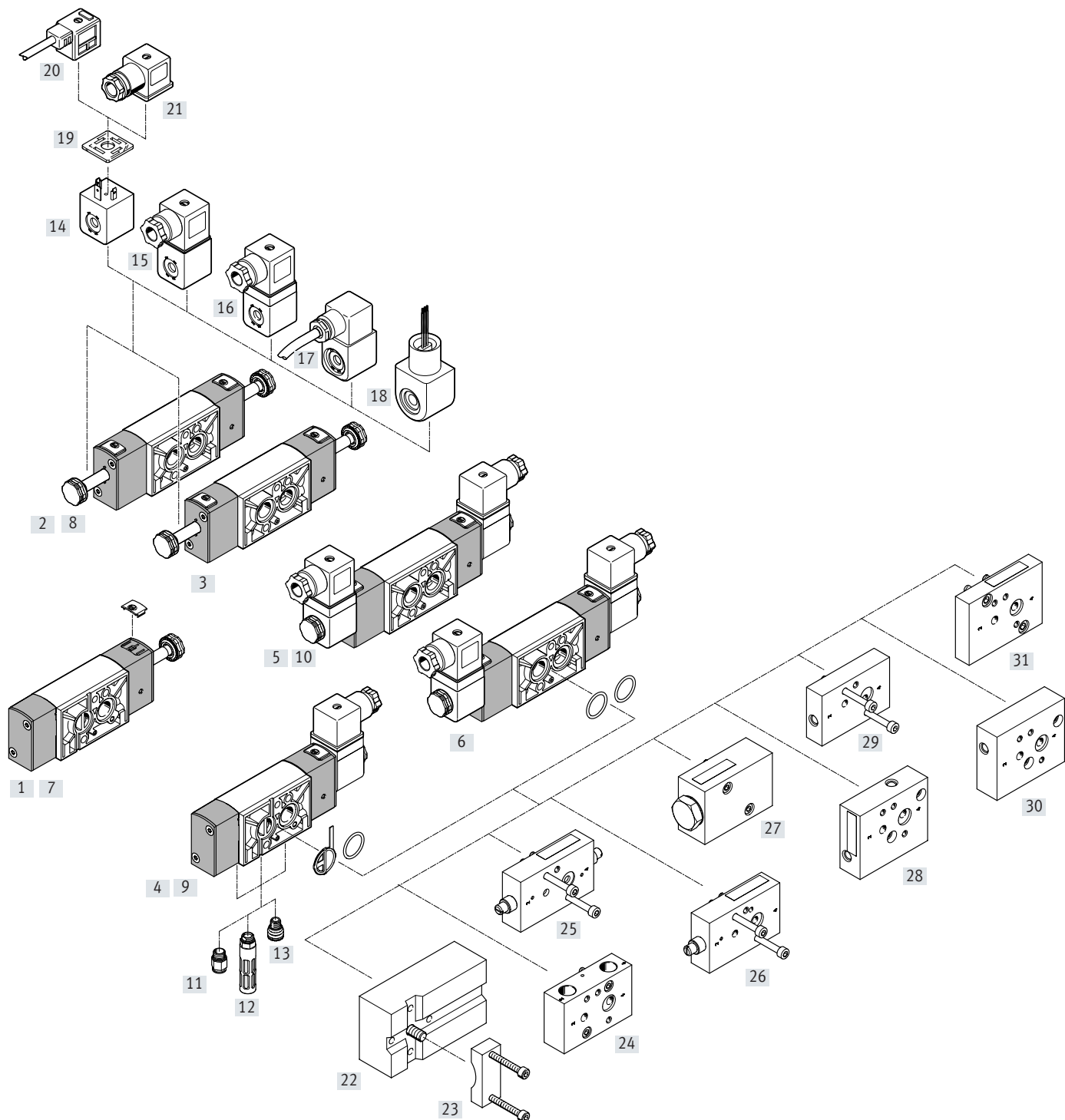
Encapsulated coil with conduit, connection VACN-...-U4M



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



Peripherals overview – VSNC-...-FN

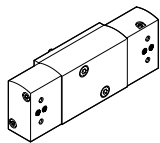


Peripherals overview – VSNC-F-...-FN

Mounting components and accessories		Brief description	→ Page / Internet
[1]	VSNC-F ...-FN	3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover and stainless steel armature tube	25
[2]	Piston spool	5/2-way double solenoid valve with aluminium cover and stainless steel armature tube	30
[3]		5/3-way valve, normally open, closed or exhausted with aluminium cover and stainless steel armature tube	34
[4]		3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover, stainless steel armature tube and Ex-ia solenoid coil	25
[5]		5/2-way double solenoid valve with aluminium cover, stainless steel armature tube and Ex-ia solenoid coil	30
[6]		5/3-way valve, normally open, closed or exhausted with aluminium cover, stainless steel armature tube and Ex-ia solenoid coil	34
[7]	VSNC-FT ...-FN	3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover and stainless steel armature tube	38
[8]	Poppet seat	5/2-way double solenoid valve with aluminium cover and stainless steel armature tube	41
[9]		3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover, stainless steel armature tube and 24 V DC solenoid coil	38
[10]		5/2-way double solenoid valve with aluminium cover, stainless steel armature tube and 24 V DC solenoid coil	41
[11]	QS Push-in fitting	For connecting tubing with standard O.D.	67
[12]	U Silencer	–	67
[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	65
[14]	VACN-N Solenoid coil	Electrical plug pattern to DIN EN 175301-803, type A	–
[15]	VACN-N- ...-Ex2-N Solenoid coil	Type of ignition protection nA = non-sparking, for use in zone 2	–
[16]	VACN-N- ...-Ex4-A Solenoid coil	Type of ignition protection iA = intrinsically safe, for use in zone 1	–
[17]	VACN-N- ...-Ex4-M Solenoid coil	Type of ignition protection m = encapsulated, for use in zone 1	–
[18]	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)	–
[19]	MC-LD Illuminating seal	Illuminating seal for indicating the switching status	68
[20]	KMC Connecting cable	–	kmc
[21]	MSSD-C Plug socket	Electrical plug pattern to DIN EN 175301-803, type A	67
[22]	VABS-S7-S-G14 Connection set	Sub-base for attaching the valve to a NAMUR rib	57
[23]	VAMES7-Y Mounting bracket	Alternative (instead of screw) for mounting the valve on a NAMUR rib using a mounting bracket	64
[24]	VABS-B14-T-F ... 14 Connector plate	With the sub-base the NAMUR valve can be used as an inline valve with G1/4" and NPT 1/4" thread.	57
[25]	VABF-B14-F1B1P2-FF14 Throttle plate (double-acting)	Flow control for double-acting quarter turn actuators.	58
[26]	VABF-B14-F1B1P1-FF14 Throttle plate (single-acting)	Flow control for single-acting quarter turn actuators.	58
[27]	VABF-B14-M3-...14 Exhaust plate	Exhausting a quarter turn actuator with NAMUR connection via a valve terminal or a normal inline valve G1/4 or 1/4 NPT.	59
[28]	VABS-B14-90-FF14 Mounting plate	NAMUR connection can be turned 90°. It is also possible to mount a 1/4" NAMUR valve on a 1/2" actuator.	60
[29]	VABS-B14-180-FF14 Mounting plate	NAMUR connection can be turned 180°. It is also possible to mount a 1/4" NAMUR valve on a 1/2" actuator.	61
[30]	VABS-B14-270-FF14 Mounting plate	NAMUR connection can be turned 270°. It is also possible to mount a 1/4" NAMUR valve on a 1/2" actuator.	62
[31]	VABA-B14-FL12-FL14 Mounting plate	Mounting plate with NAMUR connection 1/2 and 1/4	63

Key features, product range overview VSNC-...-P2

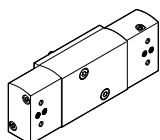
VSNC-F ... -P2



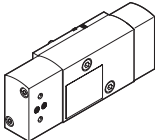
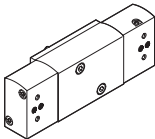
- Design: Piston spool
- Material of valve cap: Aluminium/metal
- Material of armature: Stainless steel
- Pilot air (via NAMUR connection, pilot control), protected

Design	Type	Pneumatic connection 1, 3, 5	Pneumatic connection 2, 4, based on standard	Standard nominal flow rate [l/min]	→ Page
5/3-way valve ...-P2					
	VSNC-F-P53C-M-G14-P2	G 1/4	VDI/VDE 3845 NAMUR	1250	47
	VSNC-F-P53U-M-G14-P2			950	
	VSNC-F-P53E-M-G14-P2			1050	
	VSNC-F-P53C-M-N14-P2	1/4 NPT		1250	
	VSNC-F-P53U-M-N14-P2			950	
	VSNC-F-P53E-M-N14-P2			1050	

VSNC-FT ... -P2

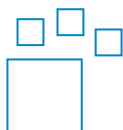


- Design: Poppet seat
- Material of valve cap: Aluminium/metal
- Material of armature: Stainless steel
- Pilot air (via NAMUR connection, pilot control), protected

Design	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-M-G14-P2	G 1/4	VDI/VDE 3845 NAMUR	800	49
	VSNC-FTC-M52-M-N14-P2	1/4 NPT			
5/2-way valve ...-FN, double solenoid					
	VSNC-FT-B52-G14-P2	G 1/4	VDI/VDE 3845 NAMUR	1000	53
	VSNC-FT-B52-N14-P2	1/4 NPT			

Key features, product range overview VSNC-...-P2

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Part no. 8026033
Type VSNC

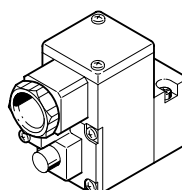
Pilot valve	MGXDH-3/2-1.2-110AC-EX	MGXDH-3/2-1.2-230AC-EX	MGXDH-3/2-1.2-24DC-EX	MGXIAH-3/2-0.8-24DC-EX
Valve function	3/2-way, closed, single solenoid			
Actuation type	Electrical			
Type of mounting	CNOMO			
Manual override	Detenting			
Operating pressure	-0.9 ... 8 bar			
Design	On/off valve			
Reset method	Mechanical spring			
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX) To EU Low Voltage Directive			
ATEX category gas	II 2G		II 2G	II 1G
ATEX category for dust	II 2D		II 2D	II 1D
Type of ignition protection for gas	Ex db IIC T4 Gb		Ex db IIC T5 Gb	Ex ia IIC T6...T5 Ga
Type of ignition protection for dust	Ex tb IIIC T135°C Db		Ex tb IIIC T100°C Db	Ex ia IIIB T135°C Da
Explosion-proof ambient temperature	-65°C ≤ Ta ≤ +40°C		-65°C ≤ Ta ≤ +55°C	-40°C ≤ Ta ≤ +65°C
Degree of protection	IP66		IP66	IP65
Characteristic coil data	110V [~] AC: 50/60Hz,	230V [~] AC: 50/60Hz,	24V [~] DC: 3°W	24V [~] DC: 1.5°W
Pick-up power	7.7 VA,	10 VA,	–	–
Holding power	3.8 VA	6 VA	–	–

Pilot valve MGXDH-...-EX



- Category II 2G II 2D
- Ignition protection type Ex
- IEC Ex certification
- ATEX certification

Pilot valve MGXIAH-...-EX



- Category II 1G II 1D
- Ignition protection type Ex
- IEC Ex certification
- ATEX certification

Type codes

001	Series	
VSNC	Solenoid valve	

002	Directional control valve type	
F	Flanged valve	

003	Design principle	
	Piston spool	
K	Piston spool with sealing ring	
T	Poppet valve	

004	Additional function	
	None	
C	Convertible valve function	
AC		

005	Valve function	
B52	5/2-way valve, double solenoid/bistable	
M52	5/2-way valve, single solenoid/monostable	
P53U	5/3-way valve, mid-position pressurised	
P53E	5/3-way valve, mid-position exhausted	
P53C	5/3-way valve, mid-position closed	

006	Reset method for monostable/single solenoid valves	
	None	
M	Mechanical spring	
R	Mixed, pneumatic/mechanical spring	

007	Manual override	
	None	
D	Non-detenting, detenting	
H	Non-detenting	
S	Covered	

008	Pneumatic connection	
G14	G1/4	
G18	G1/8	
N14	1/4 NPT	
Q6	Push-in connector 6 mm	
Q8	Push-in connector 8 mm	
Q10	Push-in connector 10 mm	
T14	Push-in connector 1/4"	
T38	Push-in connector 3/8"	
T516	Push-in connector 5/16"	

009	Exhaust	
	No fitting	
QN	With fitting	
U1	Silencer with metallic housing	
U3	Silencer with polymer housing	

010	Valve pilot control interface	
	Standard	
F8	With armature tube 8 mm, long	
F19	Electric with armature tube for solenoid coil, 13 mm	
F19A	Electric with armature tube for solenoid coil 13 mm, intrinsically safe	
FN	With armature tube 9 mm	
P2	Interface for pilot valve size 30 mm to ISO 15218 (CNOMO)	

011	Power consumption	
	None	
11	1.1 W	
18	1.8 W	

012	Nominal operating voltage	
	None	
1	24 V DC	
1A	24 V AC/50-60 Hz	
1U	24 V DC and AC	
2U	110 V DC and AC	
3A	230 V AC/50-60 Hz	
3U	230 V DC and AC	
3W	230 V AC/240 V AC/50-60 Hz	
5	12 V DC	
7	48 V DC	
7A	48 V AC/50-60 Hz	
16B	120 V AC/60 Hz and 110 V AC/50-60 Hz	
27U	60 V DC and AC	

013	Electrical connection	
	None	
A1	Connection pattern type A, to EN 175 301	
B2	Connection pattern type B, industry standard	
C1	Connection pattern type C, to EN 175 301	
C3	Cable, 3 m	
K4	Cable connector metric	
K11	Cable with insulating conduit connection	

014	Degree of protection, electrical system	
	Standard	
S8	IP67	
S11		

015	Circuitry	
	None	
F	Fuse	

016	EU certification	
	None	
EX2	II 3GD	
EX4	II 2GD	

017	Certification	
	None	
U4	Class1 Div1 to NEC 500	

018	Type of ignition protection	
	None	
A	Intrinsically safe	
D	Flameproof encapsulation	
M	Encapsulation	
ME	Encapsulation, enhanced security	
N	Non-sparking	

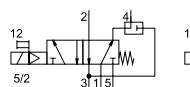
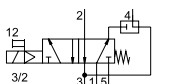
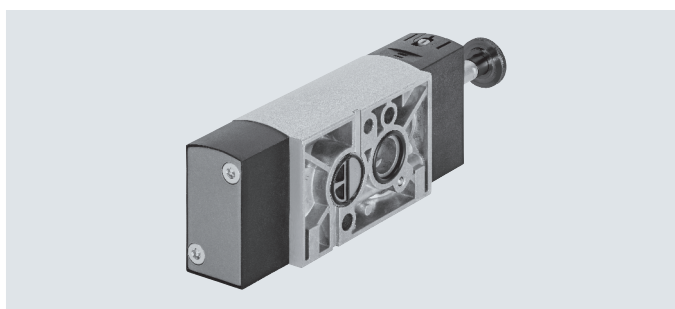
019	Electrical valve accessories	
	None	
G	Connector socket, without LED	

020	Version	
	Expanded properties	
S	Focused properties	

Data sheet – 3/2-way or 5/2-way valve ...-F8, convertible, single solenoid

Function¹⁾

5/2-way valve

3/2-way valve
with exhaust returnVoltage
24 V DCOperating pressure
2.5 ... 10 barTemperature range
-20 ... +60°C

1) Can be changed by exchanging the sealing plate

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		
Actuation type		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Manual override		Detenting, non-detenting		
Exhaust air function		Can be throttled		
Port for venting hole		Not ducted		
Pilot air supply		Internal		
Type of mounting		With through-hole		
Mounting position		Any		
Max. tightening torque for valve mounting	[Nm]	3.5		–
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, 1/4 NPT NAMUR port pattern	G 1/4	G 1/4
Conforms to standard		VDI/VDE 3845 NAMUR		
Certificate issuing authority		DNVGL-TAA000011]		
Product weight	[g]	335	390	335

Data sheet – 3/2-way or 5/2-way valve ...-F8, 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 the 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		–		
Maritime classification ²⁾		See certificate		
		c UL us - Recognized (OL)		
		–		

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

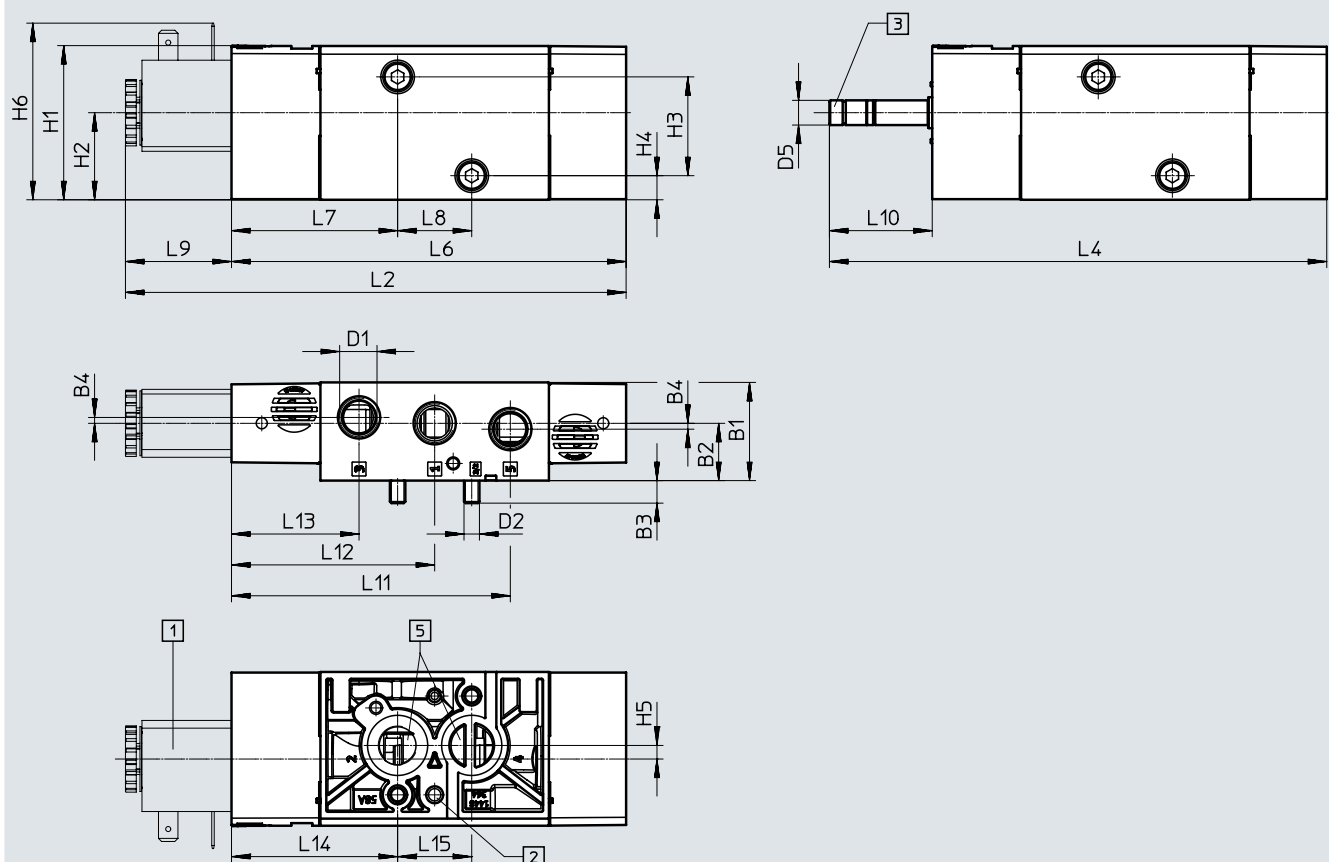
2) Additional information is available at www.festo.com/sp → Certificates.

Electrical data		VSNC-FC- ... -G14-F8 VSNC-FC- ... -N14-F8	VSNC-FC- ... -G14-F8-1B2	VSNC-FC- ... -G14-F8-1A1
Electrical connection		–	3-pin plug, type B to industry standard (11 mm)	To EN 175301-803, type A
Characteristic coil data, 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 plug socket
Switching time on	[ms]	11	11	11
Switching time off	[ms]	38	48	48

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

Data sheet – 3/2-way or 5/2-way valve ...F8, convertible, single solenoid

Dimensions

Download CAD data → www.festo.com

VSNC-FC-M52-MD-G14-F8

[1] Solenoid coil

[2] $\varnothing 5.5 \times 4$ (for threaded pin to
DIN 913-M5x10-45H)[3] Suction of auxiliary pilot air 82,
M5[5] Working port 2 and 4, NAMUR port
pattern

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

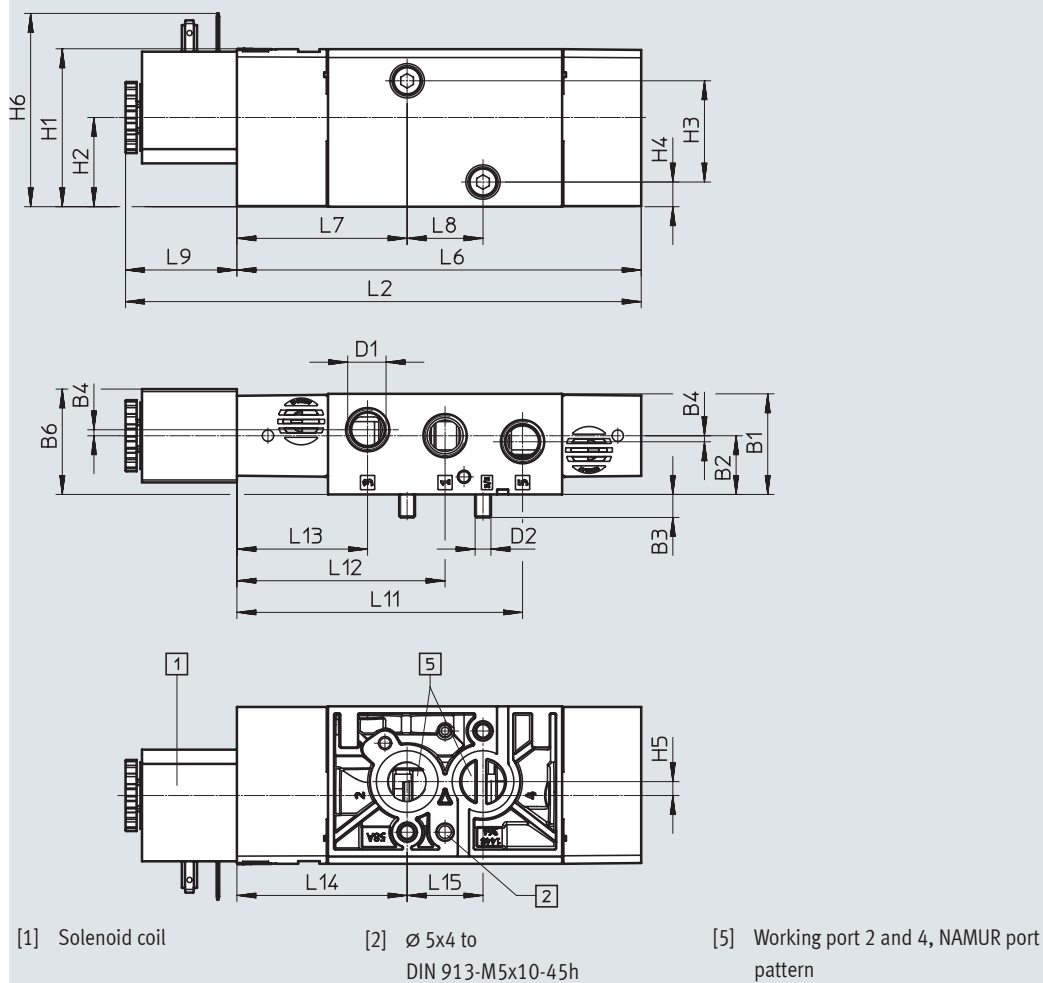
Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-F8	162.2	161.1	127.8	53.8	24	34.4	33.3	90.3	65.8	41.3	53.8	24
VSNC-FC-M52-MD-N14-F8												
VSNC-FC-M52-MD-G14-F8-1B2												

Data sheet – 3/2-way or 5/2-way valve ...-F8, convertible, single solenoid

Dimensions

Download CAD data → www.festo.com

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

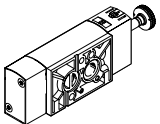
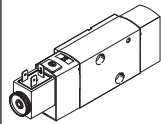


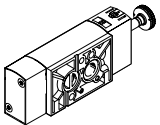
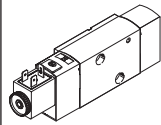
Type	B1	B2	B3	B4	B6	D1	D2	H1	H2	H3	H4	H5
VSNC-FC-M52-MD-G14-F8-1A1	31.8	18.6	7.3	1.9	33.3	G 1/4	M5	49.9	28.2	32	7.8	4.4

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

Data sheet – 3/2-way or 5/2-way valve ...-F8, convertible, single solenoid

★ Core product range

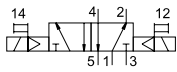
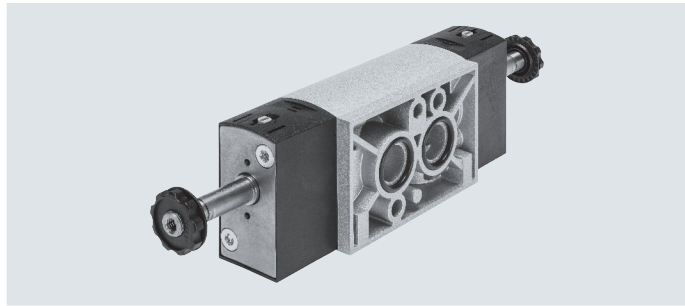
Ordering data – Valves			Ordering data – Valves		
Directional control valve without solenoid coil			Directional control valve with 24 V DC solenoid coil, without socket		
	Part no.	Type		Part no.	Type
	★ 577257	VSNC-FC-M52-MD-G14-F8		★ 577295	VSNC-FC-M52-MD-G14-F8-1B2

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

Data sheet – 5/2-way valve ...-F8, double solenoid

Function

5/2-way valve

Voltage
24 V DCOperating pressure
1.5 ... 10 barTemperature 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 width DN	[mm]	7.2	
Design		Piston spool	
Sealing principle		Soft	
Actuation type		Electrical	
Reset method		–	
Type of control		Piloted	
Manual override		Detenting, non-detenting	
Type of mounting		With through-hole	
Mounting position		Any	
Max. tightening torque for 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	G 1/4, 1/4 NPT	
	2, 4	NAMUR port pattern	
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011J	
Product weight	[g]	345	455

Data sheet – 5/2-way valve ...-F8, 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 the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

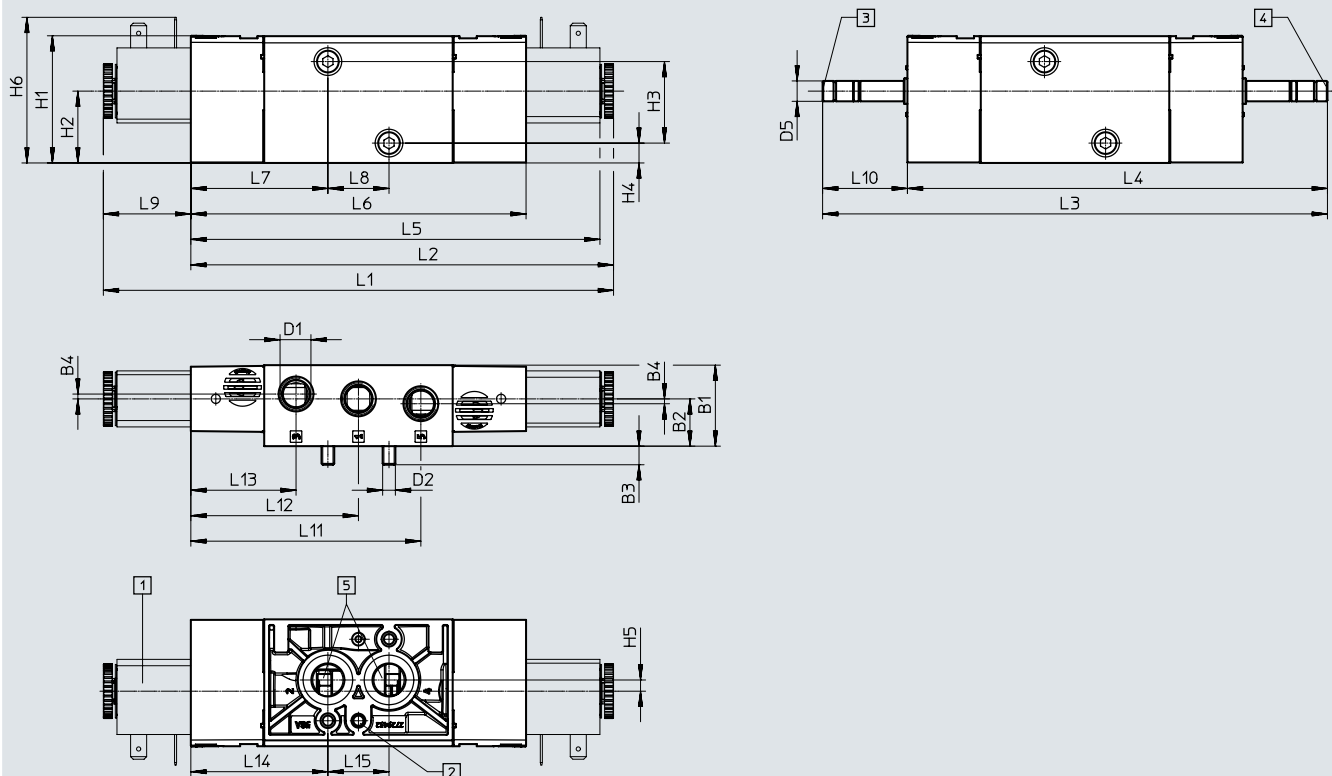
2) Additional information is available at www.festo.com/sp → Certificates.

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 plug, to industry standard (11 mm), type B
Characteristic coil data, 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

Data sheet – 5/2-way valve ...-F8, double solenoid

Dimensions

Download CAD data → www.festo.com

- [1] Solenoid coil
 [2] Ø 5.5x4 (for threaded pin to DIN 913-M5x10-45H)
 [3] Suction of auxiliary pilot air 82, M5
 [4] Suction of auxiliary pilot air 84, M5
 [5] Working port 2 and 4, NAMUR port pattern

Type	B1	B2	B3	B4	D1	D2	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	49.9	28.2	32	7.8	4.4	–	–
VSNC-F-B52-D-N14-F8					1/4 NPT							–	–
VSNC-F-B52-D-G14-F8-1B2					G 1/4							57.2	200.3

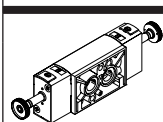
Type	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-F-B52-D-G14-F8	–	198.2	164.9	–	131.6	53.8	24	–	33.3	90.3	65.8	41.3	53.8	24
VSNC-F-B52-D-N14-F8				160.6				34.4						
VSNC-F-B52-D-G14-F8-1B2	166													

Ordering data – Valves

Directional control valve without solenoid coil

Part no. Type

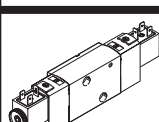
577258 VSNC-F-B52-D-G14-F8
 577263 VSNC-F-B52-D-N14-F8



Directional control valve with solenoid coil

Part no. Type

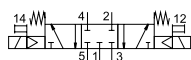
577296 VSNC-F-B52-D-G14-F8-1B2



Data sheet – 5/3-way valve ...-F8

Function

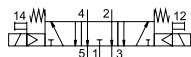
5/3-way valve, closed



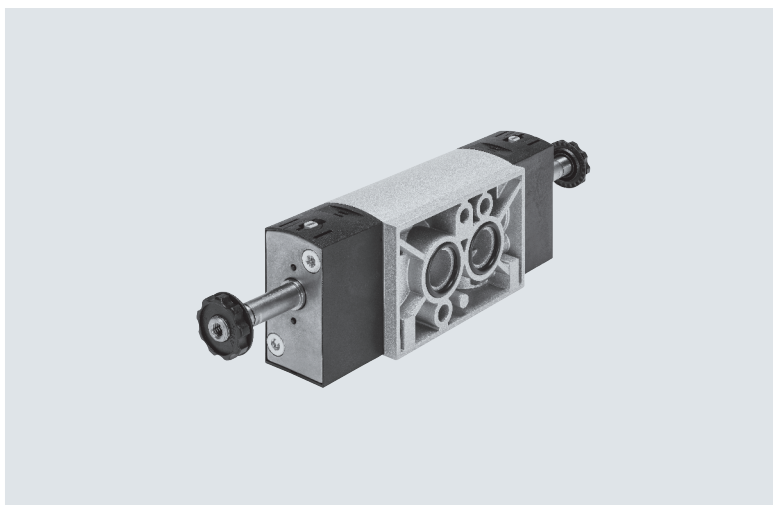
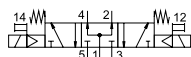
-  - Operating pressure
3 ... 10 bar

-  - 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 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		
Actuation type		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 for 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, 1/4 NPT NAMUR port pattern		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011J		
Product weight	[g]	345		

Data sheet – 5/3-way valve ...-F8

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 the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

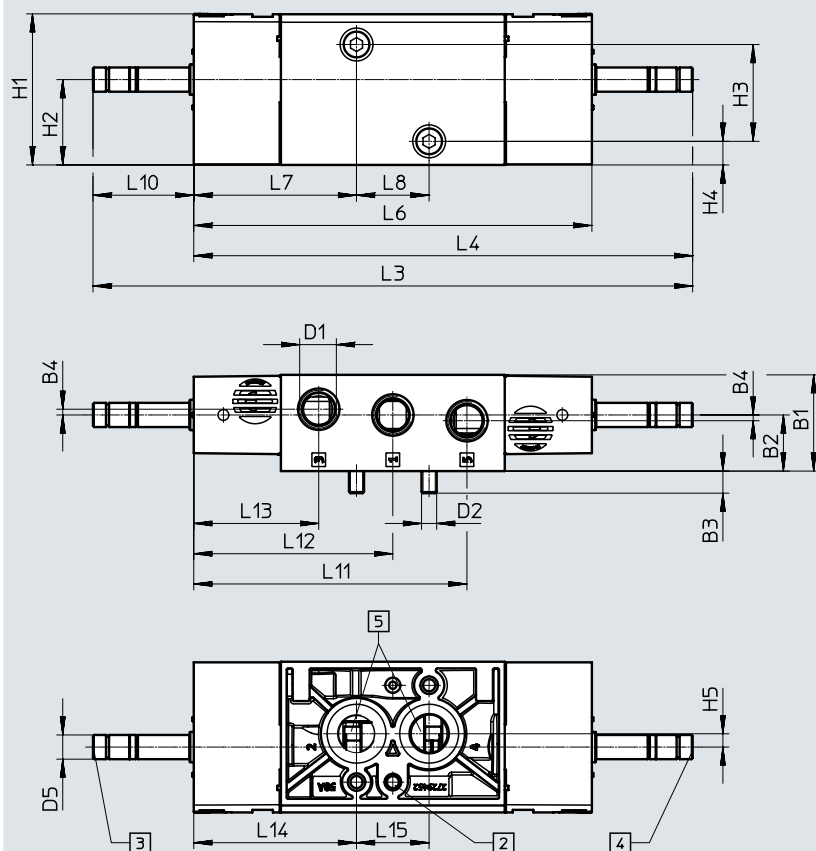
2) Additional information is available at www.festo.com/sp → Certificates.

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
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	13	14	14
Switching time off	[ms]	42	48	48
Switching time changeover	[ms]	26	25	25

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

Data sheet – 5/3-way valve ...-F8

Dimensions

Download CAD data → www.festo.com

[2] $\varnothing 5.5 \times 4$ (for threaded pin to DIN 913-M5x10-45H)

[3] Suction of auxiliary pilot air 82, M5

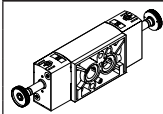
[4] Suction of auxiliary pilot air 84, M5

[5] Working port 2 and 4, NAMUR port pattern

Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5
VSNC-F-P53C-MD-G14-F8	31.8	18.6	7.3	1.9	G 1/4	M5	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											
VSNC-F-P53E-MD-N14-F8											
					1/4 NPT						

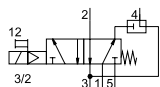
Type	L3	L4	L6	L7	L8	L10	L11	L12	L13	L14	L15
VSNC-F-P53C-MD-G14-F8	198.2	164.9	131.6	53.8	24	33.3	90.3	65.8	41.3	53.8	24
VSNC-F-P53U-MD-G14-F8											
VSNC-F-P53E-MD-G14-F8											
VSNC-F-P53C-MD-N14-F8											
VSNC-F-P53U-MD-N14-F8											
VSNC-F-P53E-MD-N14-F8											

Data sheet – 5/3-way valve ...-F8

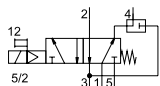
Ordering data – Valves		
Directional control valve without solenoid coil		
	Part no.	Type
	577259	VSNC-F-P53C-MD-G14-F8
	577260	VSNC-F-P53U-MD-G14-F8
	577261	VSNC-F-P53E-MD-G14-F8
	577264	VSNC-F-P53C-MD-N14-F8
	577265	VSNC-F-P53U-MD-N14-F8
	577266	VSNC-F-P53E-MD-N14-F8

Data sheet – 3/2-way or 5/2-way valve VSNC-F...-FN, convertible, single solenoid

Function convertible
3/2-way valve or

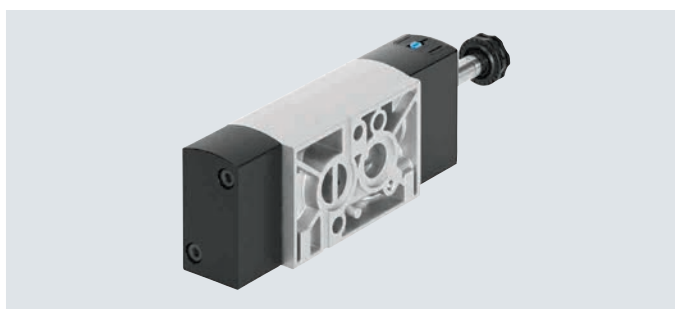


5/2-way valve



Operating pressure
2.5 ... 8 bar

Temperature range
–20 ... +60°C



General technical data				
		VSNC- ... -G14-FN VSNC- ... -MD-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		
Actuation type		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Pilot air supply		Internal		
Exhaust air function		Can be throttled		
Manual override		Detenting, non-detenting		
Type of mounting		With through-hole		
Port 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	G 1/4, 1/4 NPT		G 1/4
	2, 4	NAMUR port pattern		
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 the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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

Data sheet – 3/2-way or 5/2-way valve VSNC-F...-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 for 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 ambient temperature [°C]	–	-40°C ≤ Ta ≤ +50°C	–
Degree of protection	–	IP65	IP65
	–	IP67	IP67
	–	–	To IEC 60529, with plug socket
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)		–

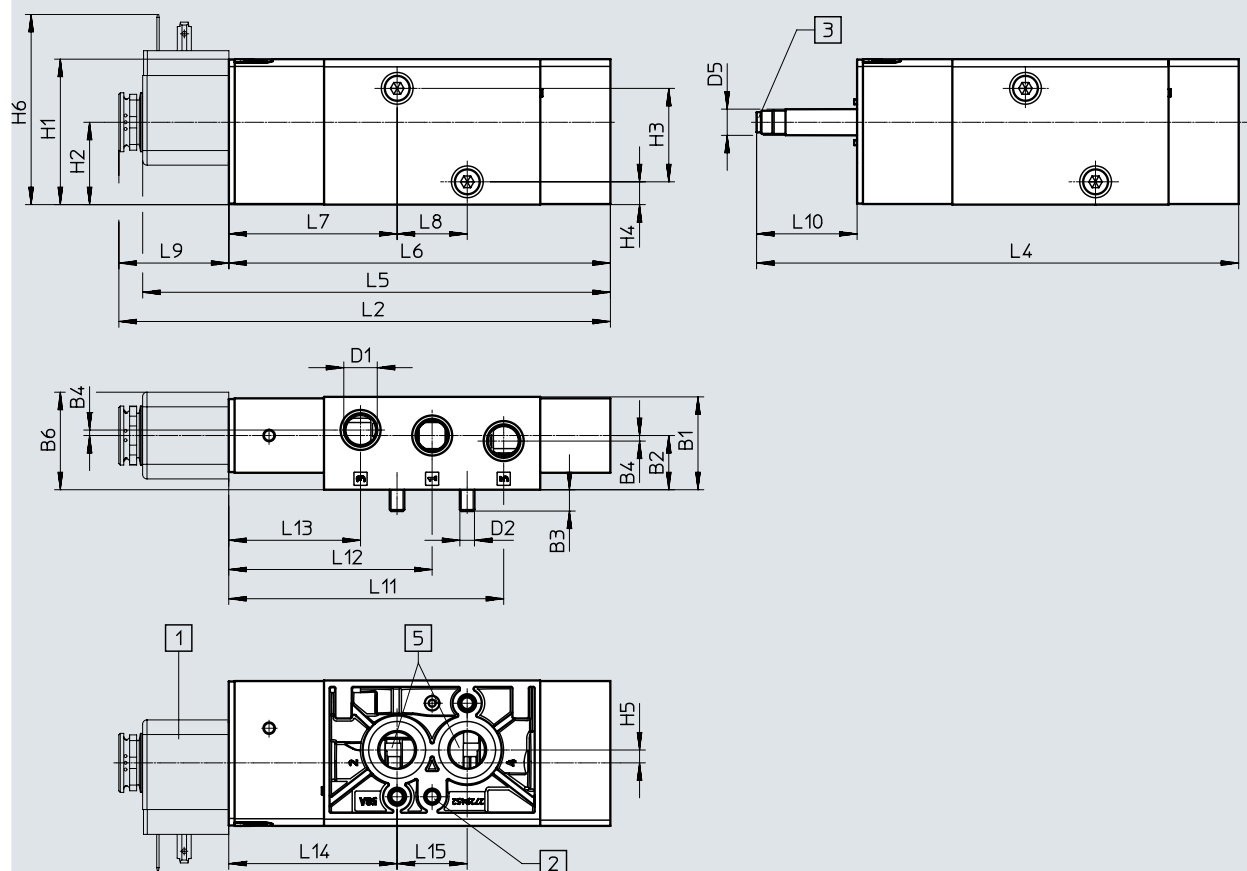
Electrical data	VSNC- ... -G14-FN VSNC- ... -N14-FN	VSNC- ... -G14-FN-1A1-EX4-A VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G VSNC- ... -G14-FN-3AA1+G
Electrical connection	–	Type A, to EN 175301-803	Type A, to EN 175301-803
Characteristic coil data, 24 V DC [W]	See solenoid coil, to be ordered separately		0.7
Characteristic coil data, 230 V AC, 50/60 Hz			
Pick-up power [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	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
[1] Housing	Wrought aluminium alloy		
[2] Seals	NBR		
[3] Screws	High-alloy stainless steel		
–	RoHS-compliant		

Data sheet – 3/2-way or 5/2-way valve VSNC-F...-FN, convertible, single solenoid

Dimensions

Download CAD data → www.festo.com



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

- | | | | |
|-------------------|-----------------------------------|--|---|
| [1] Solenoid coil | [2] Ø 5x4 to
DIN 913-M5x10-45h | [3] Suction of auxiliary pilot air 82,
M5 | [5] Working port 2 and 4, NAMUR port
pattern |
|-------------------|-----------------------------------|--|---|

Type	B1	B2	B3	B4	B6	D1	D2	D5 Ø	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						1/4 NPT								65.1
VSNC-FC-M52-MD-N14-FN														–
VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A														65.1

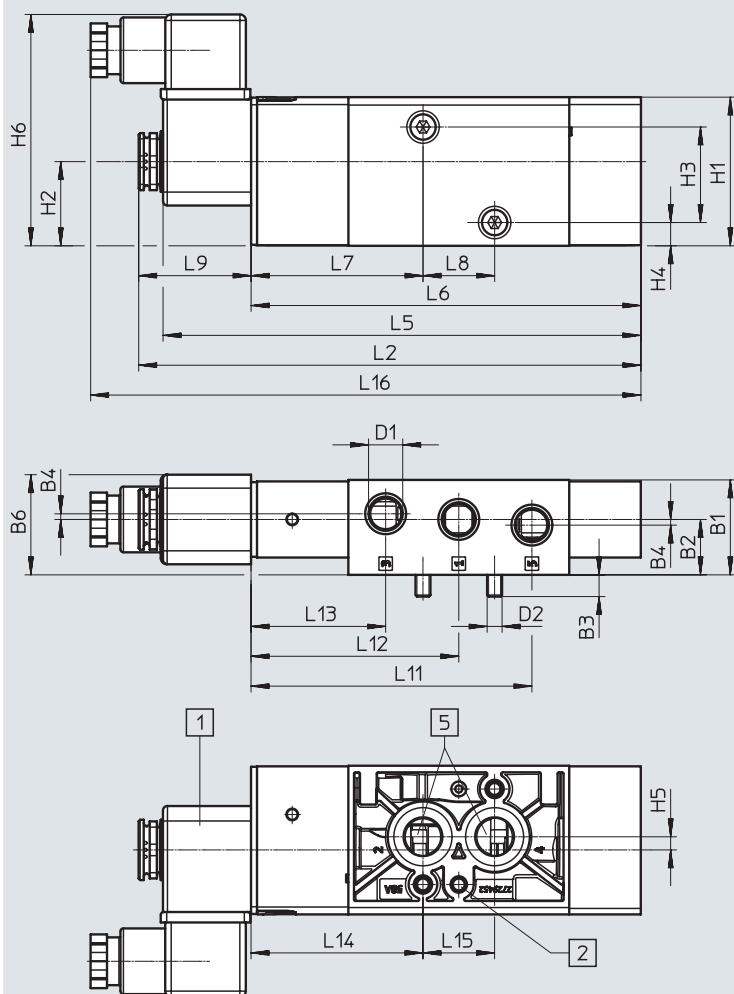
Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-FN	—	165	—	130.6	57.6	24	—	34.4	94.1	69.6	45.1	57.6	24
VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A	168.3		160.1				37.7						
VSNC-FC-M52-MD-N14-FN	—		—				—						
VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A	168.3		160.1				37.7						

Data sheet – 3/2-way or 5/2-way valve VSNC-F...-FN, convertible, single solenoid

Dimensions

Download CAD data → www.festo.com

VSNC... -G14-FN- ... +G



[1] Connector socket M16

[2] $\varnothing 5 \times 4$ to
DIN 913-M5x10-45h[5] Working port 2 and 4, NAMUR port
pattern

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

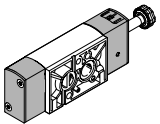
Type	L2	L5	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16
VSNC-FC-M52-MD-G14-FN- ... +G	168.3	160.1	130.6	57.6	24	37.7	94.1	69.6	45.1	57.6	24	184.4

Data sheet – 3/2-way or 5/2-way valve VSNC-F...-FN, convertible, single solenoid

★ Core product range

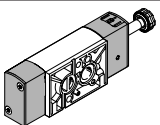
Ordering data – Valves

Directional control valve without solenoid coil

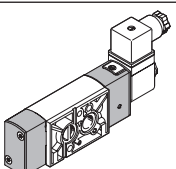
	Part no.	Type
	★ 577267	VSNC-FC-M52-MD-G14-FN

Ordering data – Valves

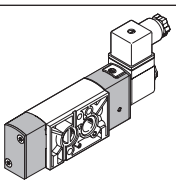
Directional control valve without solenoid coil

	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

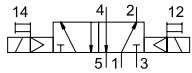
Directional control valve with Ex-i solenoid coil including socket

	577281	VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A
	577286	VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A

Data sheet – 5/2-way valve VSNC-F...-FN, double solenoid

Function

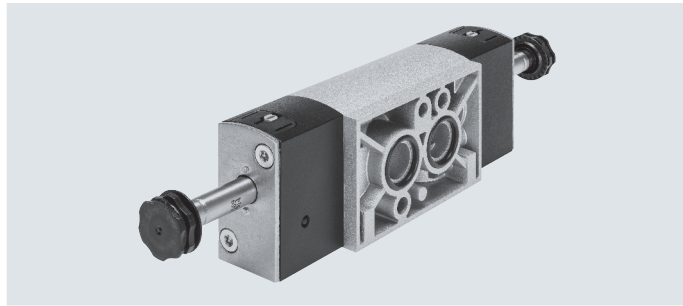
5/2-way valve, double solenoid



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	
Actuation type		Electrical	
Type of control		Piloted	
Pilot air supply		Internal	
Exhaust air function		Can be throttled	
Manual override		Non-detenting, detenting	
Type of mounting		With through-hole	
Port 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, 1/4 NPT NAMUR port pattern	
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011J	
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 the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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

Data sheet – 5/2-way valve VSNC-F...-FN, double solenoid

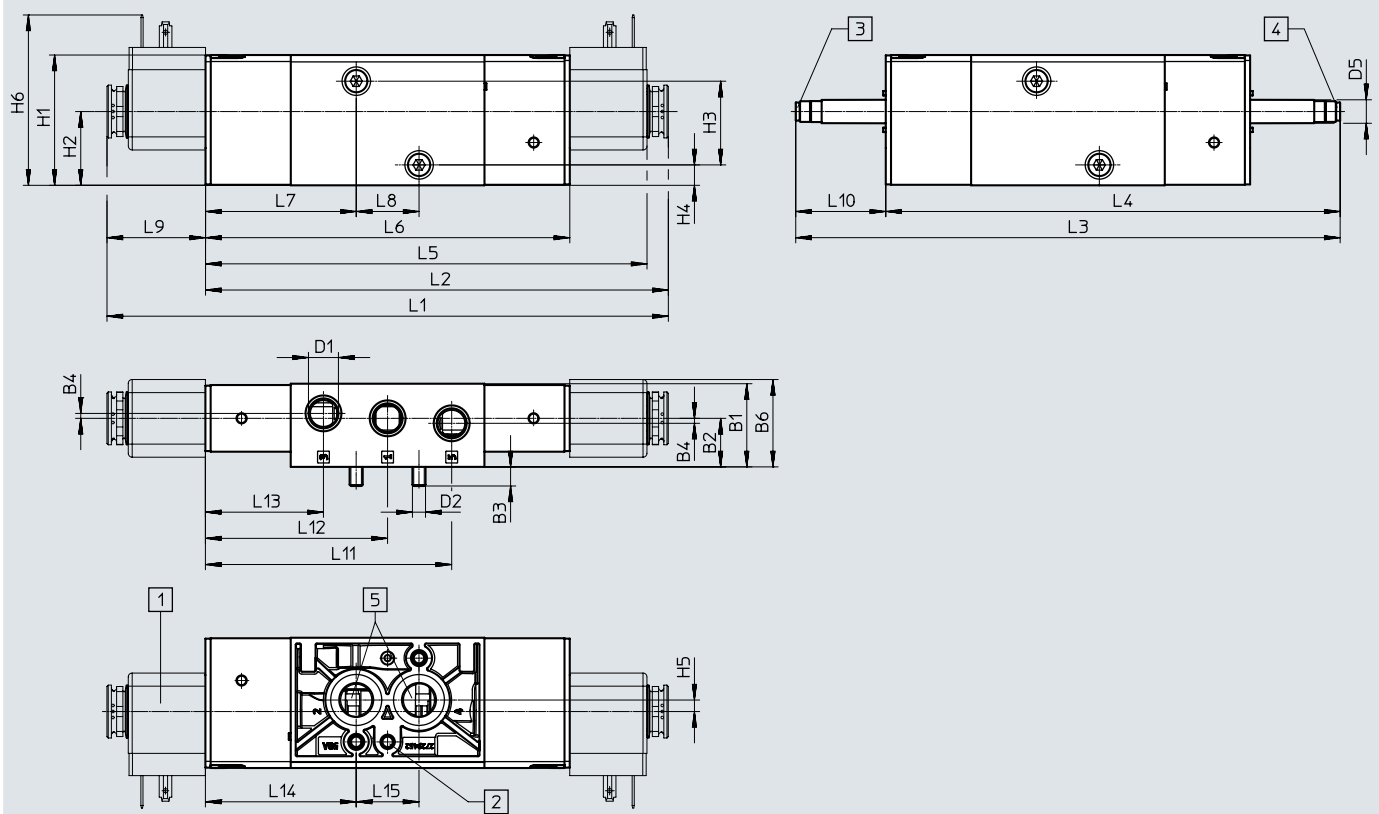
ATEX		
	VSNC-F-B52-D-G14-FN VSNC-F-B52-D-N14-FN	VSNC-F-B52-D-G14-FN-1A1-Ex4-A VSNC-F-B52-D-N14-FN-1A1-Ex4-A
ATEX category gas	–	II 2G
Type of ignition protection for gas	–	Ex ia IIC T6 Ga
ATEX category for dust	–	II 2D
Type of ignition protection for dust	–	Ex t IIIC T80°C Db
Explosion protection certification outside the EU	–	EPL Db (IEC Ex)
	–	EPL Ga (IEC Ex)
Explosion-proof ambient temperature [°C]	–	–40°C ≤ Ta ≤ +50°C
Degree of protection	–	IP65
	–	IP67
CE marking (see declaration of conformity)	To 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
Characteristic coil data	See solenoid coil, to be ordered separately	
Switching time changeover [ms]	20	
Permissible voltage fluctuations [%]	–	± 10

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

Data sheet – 5/2-way valve VSNC-F...-FN, double solenoid

Dimensions

Download CAD data → www.festo.com

VSNC-F...-MD...-FN
 VSNC-F...-D...-FN
 VSNC-FT...-D...-FN

- [1] Solenoid coil
 [2] Ø 5x4 to
 DIN 913-M5x10-45h
 [3] Suction of auxiliary pilot air 82,
 M5
 [4] Suction of auxiliary pilot air 82,
 M5
 [5] Working port 2 and 4, NAMUR port
 pattern

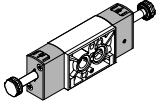
Type	B1	B2	B3	B4	B6	D1	D2	D5 Ø	H1	H2	H3	H4	H5	H6	L1							
VSNC-F-B52-D-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	–	–							
VSNC-F-B52-D-G14-FN-1A1-Ex4-A						1/4 NPT								65.1	214.5							
VSNC-F-B52-D-N14-FN														–	–							
VSNC-F-B52-D-N14-FN-1A1-Ex4-A														65.1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

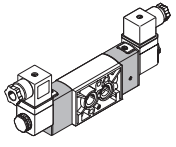
Data sheet – 5/2-way valve VSNC-F...-FN, double solenoid

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

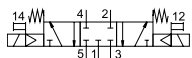
Directional control valve with Ex-i solenoid coil including socket

	577282	VSNC-F-B52-D-G14-FN-1A1-Ex4-A
	577287	VSNC-F-B52-D-N14-FN-1A1-Ex4-A

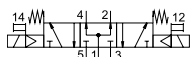
Data sheet – 5/3-way valve VSNC-F...-FN

Function

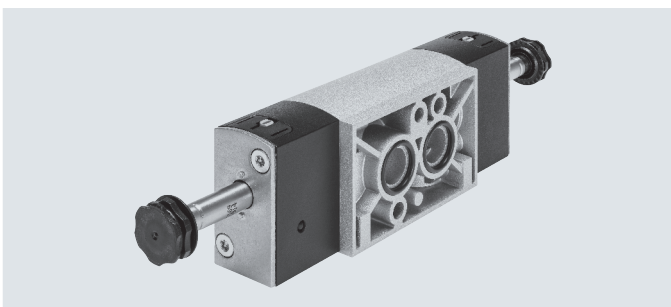
5/3-way valve, closed



5/3-way valve, exhausted



5/3-way valve, pressurised

Operating pressure
3 ... 8 barTemperature 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		
Actuation type		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Pilot air supply		Internal		
Exhaust air function		Can be throttled		
Manual override		Non-detenting, detenting		
Type of mounting		With through-hole		
Port 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	G 1/4, 1/4 NPT		
	2, 4	NAMUR port pattern		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011		
Product weight	[g]	461		

Data sheet – 5/3-way valve VSNC-F...-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 the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

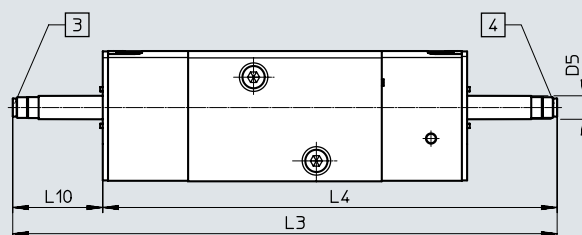
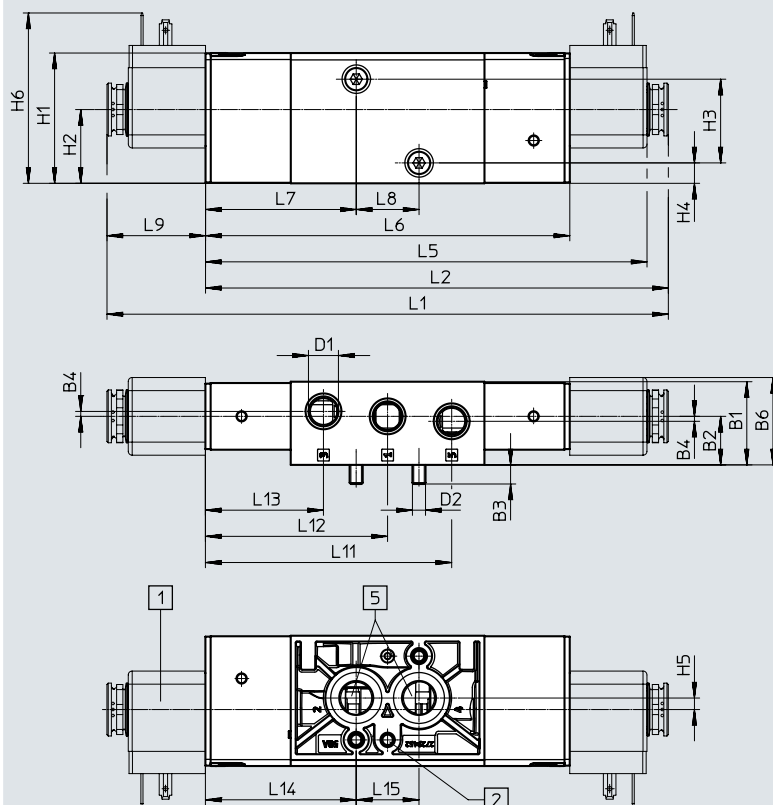
2) Additional information is available at www.festo.com/sp → Certificates.

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
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	23		
Switching time off	[ms]	103		
Switching time changeover	[ms]	55		

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

Data sheet – 5/3-way valve VSNC-F...-FN

Dimensions

Download CAD data → www.festo.com

VSNC-F...-MD...-FN
 VSNC-F...-D...-FN
 VSNC-F...-D...-FN

- [1] Solenoid coil
 [2] $\varnothing 5 \times 4$ to DIN 913-M5x10-45h
 [3] Suction of auxiliary pilot air 82, M5
 [4] Suction of auxiliary pilot air 82, M5
 [5] Working port 2 and 4, NAMUR port pattern

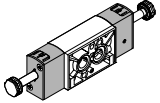
Type	B1	B2	B3	B4	B6	D1	D2	D5 $\varnothing$	H1	H2	H3	H4	H5	H6	L1
VSNC-F-P53C-MD-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	–	–
VSNC-F-P53U-MD-G14-FN															
VSNC-F-P53E-MD-G14-FN															
VSNC-F-P53C-MD-N14-FN						1/4 NPT									
VSNC-F-P53U-MD-N14-FN															
VSNC-F-P53E-MD-N14-FN															

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														

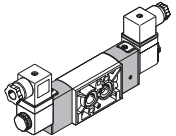
Data sheet – 5/3-way valve VSNC-F...-FN

Ordering data – Valves

Directional control valve without solenoid coil

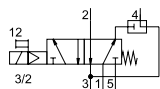
	Part no.	Type
	577269	VSNC-F-P53C-MD-G14-FN
	577270	VSNC-F-P53U-MD-G14-FN
	577271	VSNC-F-P53E-MD-G14-FN

Directional control valve with 24 V DC solenoid coil

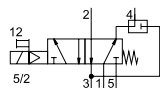
	577274	VSNC-F-P53C-MD-N14-FN
	577275	VSNC-F-P53U-MD-N14-FN
	577276	VSNC-F-P53E-MD-N14-FN

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-FN, convertible, single solenoid

Function convertible
3/2-way valve or

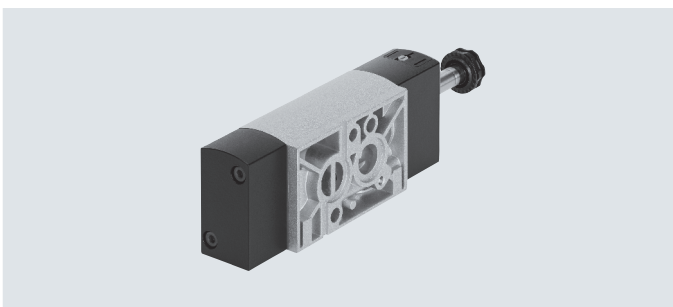


5/2-way valve



 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	
Actuation type			Electrical	
Reset method			Mechanical spring	
Type of control			Piloted	
Pilot air supply			Internal	
Exhaust air function			Can be throttled	
Manual override			Non-detenting, detenting	
Type of mounting			With through-hole	
Port for venting hole			Not ducted	
Mounting position			Any	
Non-overlapping			No	
Flow direction			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		G1/4	
	2, 4		NAMUR port pattern	
Conforms to standard			VDI/VDE 3845 (NAMUR)	
Certificate issuing authority			DNVGL-TAA000011J	
Degree of protection			–	IP65, IP67
Product weight		[g]	404	440

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-FN, convertible, single solenoid

Operating and environmental conditions		
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	
Note on the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

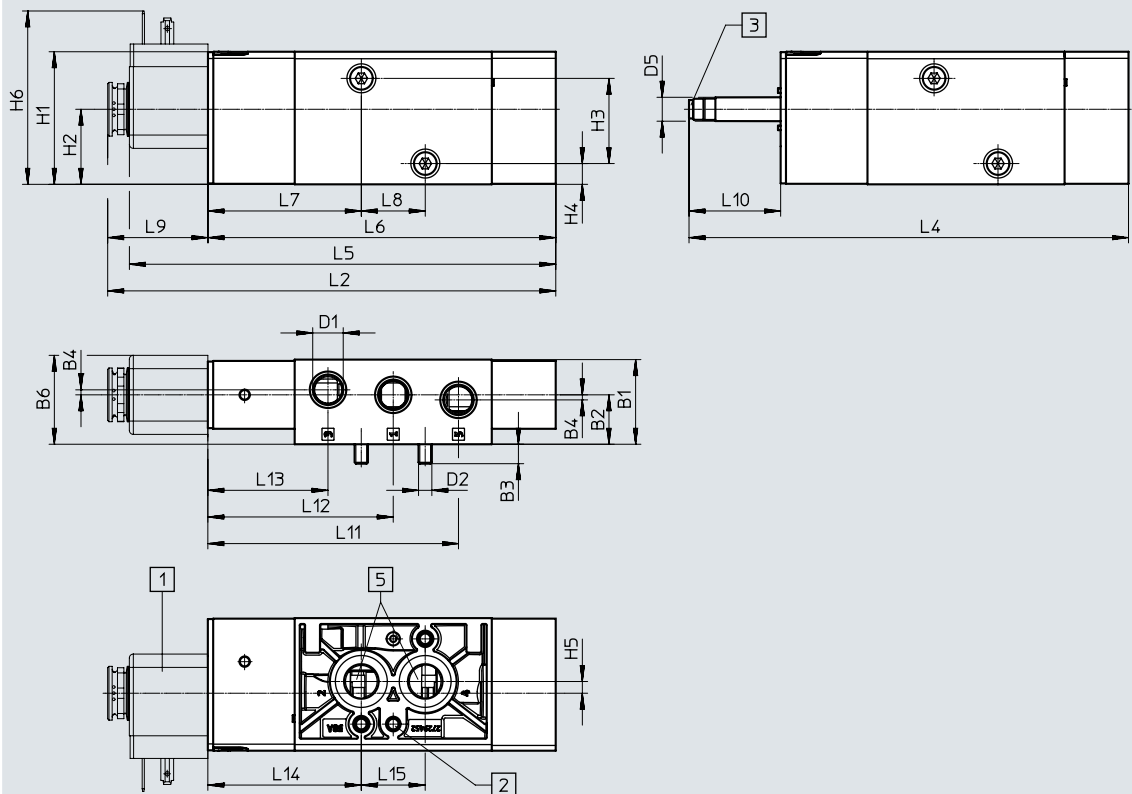
2) Additional information is available at www.festo.com/sp → Certificates.

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
Characteristic coil data, 24 V DC	[W]	See solenoid coil, to be ordered separately 0.7
Switching time on	[ms]	16
Switching time off	[ms]	120
Permissible voltage fluctuations	[%]	±10

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

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-FN, convertible, single solenoid

Dimensions

Download CAD data → www.festo.com

VSNC-FTC-M52-MD-... 14-FN-1A1

[1] Solenoid coil

[2] $\varnothing 5 \times 4$ to
DIN 913-M5x10-45h[3] Suction of auxiliary pilot air 82,
M5[5] Working port 2 and 4, NAMUR port
pattern

Type	B1	B2	B3	B4	B6	D1	D2	D5 $\varnothing$	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	M5	9	49.8	28.2	32	7.8	4.4	–
VSNC-FTC-M52-MD-G14-FN-1A1						1/4 NPT								
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

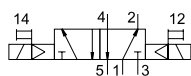
Directional control valve with 24 V DC solenoid coil

	577297	VSNC-FTC-M52-MD-G14-FN-1A1
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Data sheet – 5/2-way valve VSNC-FT...-FN, double solenoid

Function

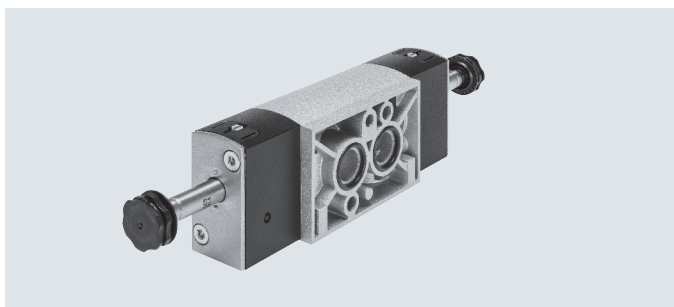
5/2-way valve, double solenoid



Operating pressure
1.5 ... 8 bar



Temperature range
-20 ... +60°C



General technical data

		VSNC-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	
Actuation type		Electrical	
Reset method		Mechanical spring	
Type of control		Piloted	
Pilot air supply		Internal	
Exhaust air function		Can be throttled	
Manual override		Non-detenting, detenting	
Type of mounting		With through-hole	
Port for venting hole		Not ducted	
Mounting position		Any	
Non-overlapping		No	
Flow direction		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, 1/4 NPT	
	2, 4	NAMUR port pattern	
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011J	
Degree of protection		–	IP65, IP67
Product weight	[g]	519	670

Data sheet – 5/2-way valve VSNC-FT...-FN, double solenoid

Operating and environmental conditions		
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	
Note on the 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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

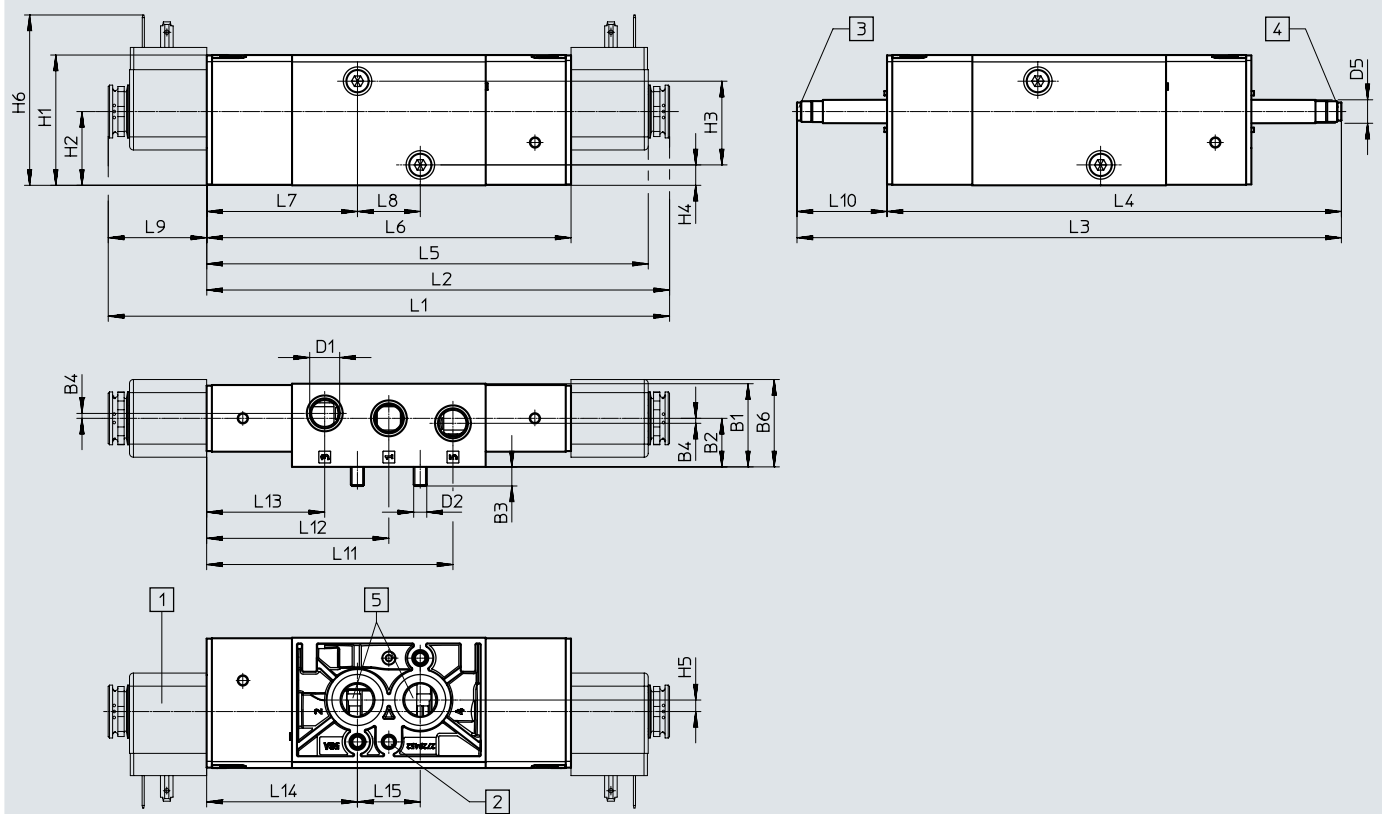
2) Additional information is available at www.festo.com/sp → Certificates.

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
Characteristic coil data, 24 V DC	[W]	See solenoid coil, to be ordered separately 0.7
Switching time changeover	[ms]	16
Permissible voltage fluctuations	[%]	±10

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

Data sheet – 5/2-way valve VSNC-FT...-FN, double solenoid

Dimensions

Download CAD data → www.festo.com

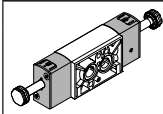
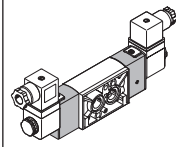
VSNC-FT-B52-D... 14-FN

- [1] Solenoid coil
 [2] $\varnothing 5 \times 4$ to DIN 913-M5x10-45h
 [3] Suction of auxiliary pilot air 82, M5
 [4] Suction of auxiliary pilot air 82, M5
 [5] Working port 2 and 4, NAMUR port pattern

Type	B1	B2	B3	B4	B6	D1	D2	D5 $\varnothing$	H1	H2	H3	H4	H5	H6	L1
VSNC-FT-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-FT-B52-D-G14-FN-1A1						1/4 NPT									
VSNC-FT-B52-D-N14-FN															

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

Data sheet – 5/2-way valve VSNC-FT...-FN, double solenoid

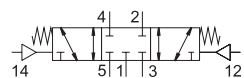
Ordering data – Valves		
Directional control valve without solenoid coil		
	Part no.	Type
	577278	VSNC-FT-B52-D-G14-FN
	577280	VSNC-FT-B52-D-N14-FN
Directional control valve with solenoid coil		
	577298	VSNC-FT-B52-D-G14-FN-1A1

Data sheet – 5/3-way valve VSNC-F...-P2

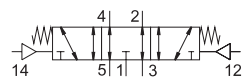
Function

5/3-way valve, closed

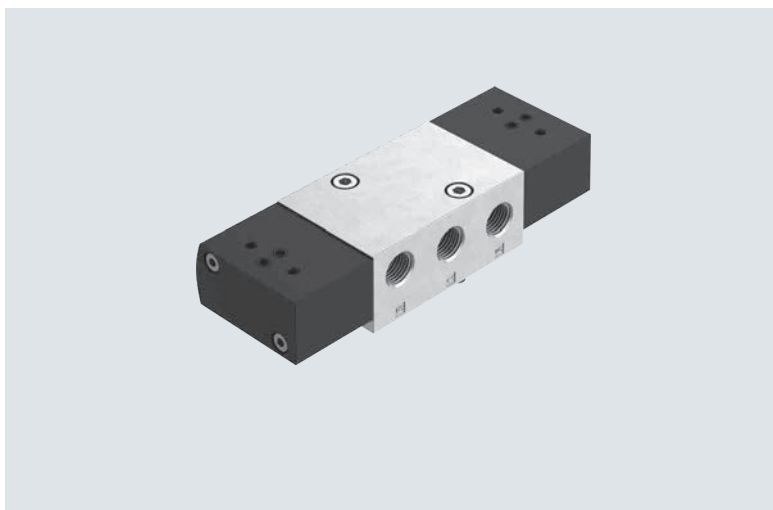
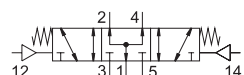
 Operating pressure
3 ... 8 bar

 Temperature range
-20 ... +60°C


5/3-way valve, exhausted



5/3-way valve, pressurised



General technical data		VSNC-F-P53C-M-G14-P2 VSNC-F-P53C-M-N14-P2	VSNC-F-P53E-M-G14-P2 VSNC-F-P53E-M-N14-P2	VSNC-F-P53U-M-G14-P2 VSNC-F-P53U-M-N14-P2
Valve function		5/3 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		
Actuation type		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Manual override		None		
Exhaust air function		Can be throttled		
Port for venting hole		Not ducted		
Pilot air supply		Internal		
Type of mounting		With through-hole		
Mounting position		Any		
Max. tightening torque for valve mounting	[Nm]	3.5		
Non-overlapping		Yes		
Overlap		Positive overlap		
Flow direction		Non-reversible		
Standard nominal flow rate	1 > 2 [l/min]	1200	1050	950
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, 1/4 NPT NAMUR port pattern		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011J		
Product weight	[g]	428		

Data sheet – 5/3-way valve VSNC-F...-P2

Operating and environmental conditions		VSNC-F-P53C-M-G14-P2 VSNC-F-P53C-M-N14-P2	VSNC-F-P53E-M-G14-P2 VSNC-F-P53E-M-N14-P2	VSNC-F-P53U-M-G14-P2 VSNC-F-P53U-M-N14-P2
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on the 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		

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

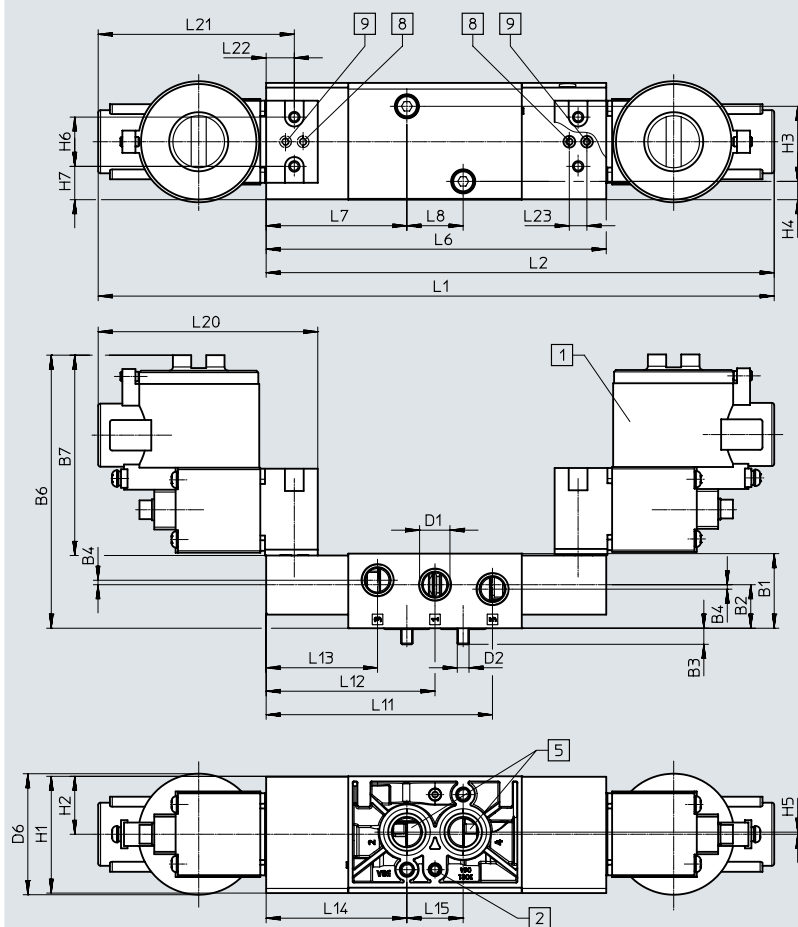
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Electrical data		VSNC-F-P53C-M-G14-P2 VSNC-F-P53C-M-N14-P2	VSNC-F-P53E-M-G14-P2 VSNC-F-P53E-M-N14-P2	VSNC-F-P53U-M-G14-P2 VSNC-F-P53U-M-N14-P2
Characteristic coil data		See solenoid coil, to be ordered separately		
Duty cycle	[%]	100		
Switching time on	[ms]	5	6	6
Switching time off	[ms]	20	9	15
Switching time changeover	[ms]	9	16	7

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

Data sheet – 5/3-way valve VSNC-F...-P2

Dimensions

Download CAD data → www.festo.com

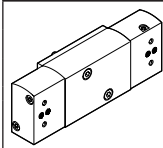
- [1] Solenoid coil
 [2] $\varnothing 5.5$ (for threaded pin to DIN 946-M5x10-45H)
 [5] Working port 2 and 4, NAMUR port pattern
 [8] Pilot air from the valve (CNOMO connection to ISO 15218)
 [9] Pilot air into the valve (CNOMO connection to ISO 15218)

Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	H6	H7
VSNC-F-P53C-M-G14-P2	31.8	~18.6	~6.9	1.9	G 1/4	M5	49.8	24.7	32	7.8	0.9	21	14.2
VSNC-F-P53U-M-G14-P2													
VSNC-F-P53E-M-G14-P2													
VSNC-F-P53C-M-N14-P2					1/4 NPT								
VSNC-F-P53U-M-N14-P2													
VSNC-F-P53E-M-N14-P2													

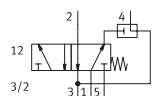
Type	L6	L7	L8	L11	L12	L13	L14	L15	L22	L23
VSNC-F-P53C-M-G14-P2	145	60	24	96.5	72	47.5	60	24	22	7.5
VSNC-F-P53U-M-G14-P2										
VSNC-F-P53E-M-G14-P2										
VSNC-F-P53C-M-N14-P2										
VSNC-F-P53U-M-N14-P2										
VSNC-F-P53E-M-N14-P2										

Type	B6	B7	D6 $\varnothing$	L1	L2	L20	L21
CNOMO solenoid coil							
MGXIAH-...	101.3	70.3	–	281	213	93	80
MGXDH-...	116.4	85.4	51.6	288.2	216.6	93.6	83.6

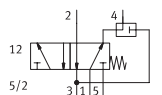
Data sheet – 5/3-way valve VSNC-F...-P2

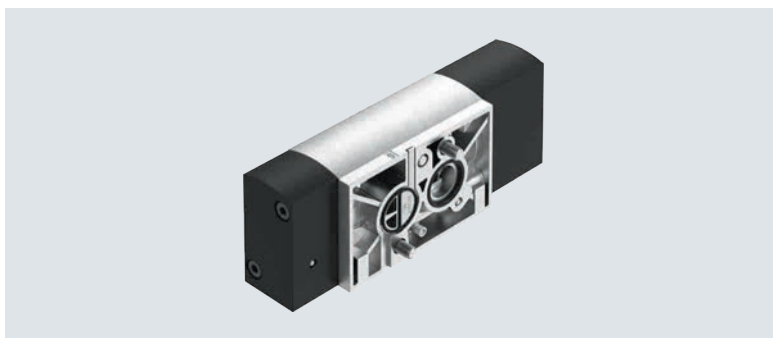
Ordering data – Valves		
Directional control valve without solenoid coil		
	Part no.	Type
	8114686	VSNC-F-P53C-M-G14-P2
	8114685	VSNC-F-P53U-M-G14-P2
	8114684	VSNC-F-P53E-M-G14-P2
	8114700	VSNC-F-P53C-M-N14-P2
	8114701	VSNC-F-P53U-M-N14-P2
	8114702	VSNC-F-P53E-M-N14-P2

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-P2, convertible, single solenoid

Function convertible
3/2-way valve or

5/2-way valve


 Operating pressure
2.5 ... 8 bar

 Temperature range
–20 ... +60°C


General technical data			VSNC-FTC-M52-M-G14-P2 VSNC-FTC-M52-M-N14-P2
Valve function			3/2-way or 5/2-way, convertible
Width	[mm]		32
Design			Poppet seat
Sealing principle			Soft
Actuation type			Electrical
Reset method			Mechanical spring
Type of control			Piloted
Pilot air supply			Internal
Exhaust air function			Can be throttled
Manual override			None
Type of mounting			With through-hole
Port for venting hole			Not ducted
Mounting position			Any
Overlap			Negative overlap
Flow direction			Non-reversible
Standard nominal flow rate	1 > 2	[l/min]	800
	Exhaust return 4 > 3	[l/min]	110
b value			–
C value		[l/sbar]	–
Pneumatic connection	1, 3, 5		G 1/4, 1/4 NPT
	2, 4		NAMUR port pattern
Conforms to standard			VDI/VDE 3845 (NAMUR)
Product weight	[g]		382

Operating and environmental conditions			VSNC-FTC-M52-M-G14-P2 VSNC-FTC-M52-M-N14-P2
Operating medium			Compressed air to ISO 8573-1:2010 [7:4:4]
Note on the 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

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

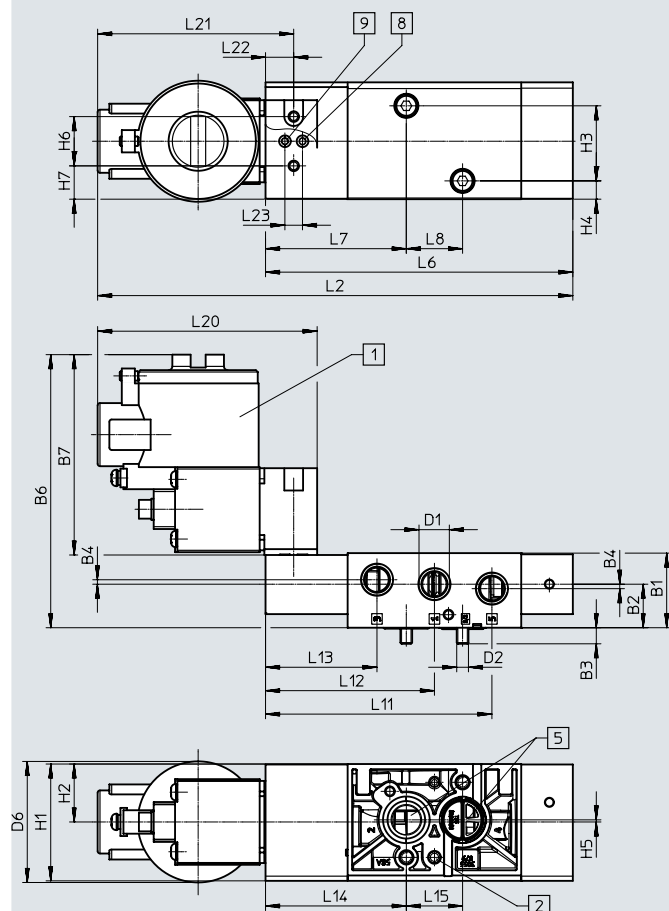
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-P2, convertible, single solenoid

Electrical data		VSNC-FTC-M52-M-G14-P2 VSNC-FTC-M52-M-N14-P2
Characteristic coil data		See solenoid coil, to be ordered separately
Duty cycle	[%]	100
Switching time on	[ms]	4
Switching time off	[ms]	6
Switching time changeover	[ms]	–
Materials		VSNC-FTC-M52-M-G14-P2 VSNC-FTC-M52-M-N14-P2
[1]	Housing	Wrought aluminium alloy
[2]	Seals	NBR
[3]	Screws	High-alloy stainless steel
	–	RoHS-compliant

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-P2, convertible, single solenoid

Dimensions

Download CAD data → www.festo.com

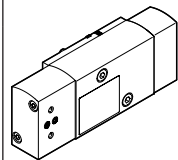
- [1] Solenoid coil
 [2] $\varnothing 5.5$ (for threaded pin to DIN 946-M5x10-45H)
 [5] Working port 2 and 4, NAMUR port pattern
 [8] Pilot air from the valve (CNOMO connection to ISO 15218)
 [9] Pilot air into the valve (CNOMO connection to ISO 15218)

Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	H6	H7
VSNC-FTC-M52-M-G14-P2	31.8	~18.6	~6.9	1.9	G 1/4	M5	49.8	24.7	32	7.8	0.9	21	14.2
VSNC-FTC-M52-M-N14-P2					1/4 NPT								

Type	L6	L7	L8	L11	L12	L13	L14	L15	L22	L23
VSNC-FTC-M52-M-G14-P2	131	60	24	96.5	72	47.5	60	24	22	7.5
VSNC-FTC-M52-M-N14-P2										

Type	B6	B7	D6 $\varnothing$	L2	L20	L21
CNOMO solenoid coil						
MGXIAH-...	101.3	70.3	—	199	93	80
MGXDH-...	116.4	85.4	51.6	202.6	93.6	83.6

Data sheet – 3/2-way or 5/2-way valve VSNC-FT...-P2, convertible, single solenoid

Ordering data – Valves		
Directional control valve without solenoid coil		
	Part no.	Type
	8114688	VSNC-FTC-M52-M-G14-P2
	8114698	VSNC-FTC-M52-M-N14-P2

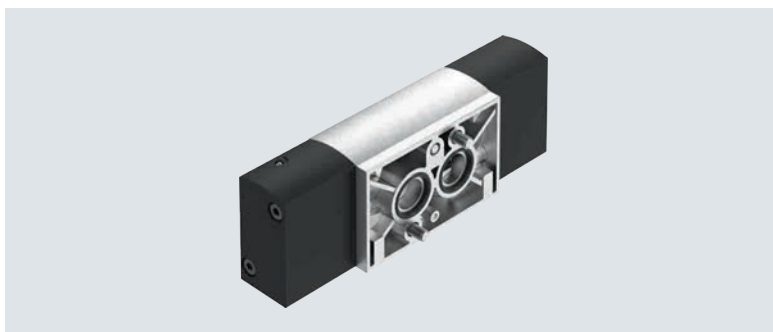
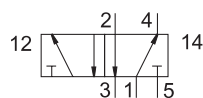
Data sheet – 5/2-way valve VSNC-FT...-P2, double solenoid

Function

5/2-way valve, double solenoid

-  - Operating pressure
1.5 ... 8 bar

-  - Temperature range
-20 ... +60°C



General technical data

		VSNC-FT-B52-G14-P2 VSNC-FT-B52-N14-P2
Valve function		5/2-way, double solenoid
Width	[mm]	32
Design		Poppet seat
Sealing principle		Soft
Actuation type		Electrical
Type of control		Piloted
Pilot air supply		Internal
Exhaust air function		Can be throttled
Manual override		None
Type of mounting		With through-hole
Port for venting hole		Not ducted
Mounting position		Any
Overlap		Negative overlap
Flow direction		Non-reversible
Standard nominal flow rate	[l/min]	1000
b value		–
C value	[l/sbar]	–
Pneumatic connection	1, 3, 5	G 1/4, 1/4 NPT
	2, 4	NAMUR port pattern
Conforms to standard		VDI/VDE 3845 (NAMUR)
Product weight	[g]	422

Operating and environmental conditions

		VSNC-FT-B52-G14-P2 VSNC-FT-B52-N14-P2
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Note on the 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

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

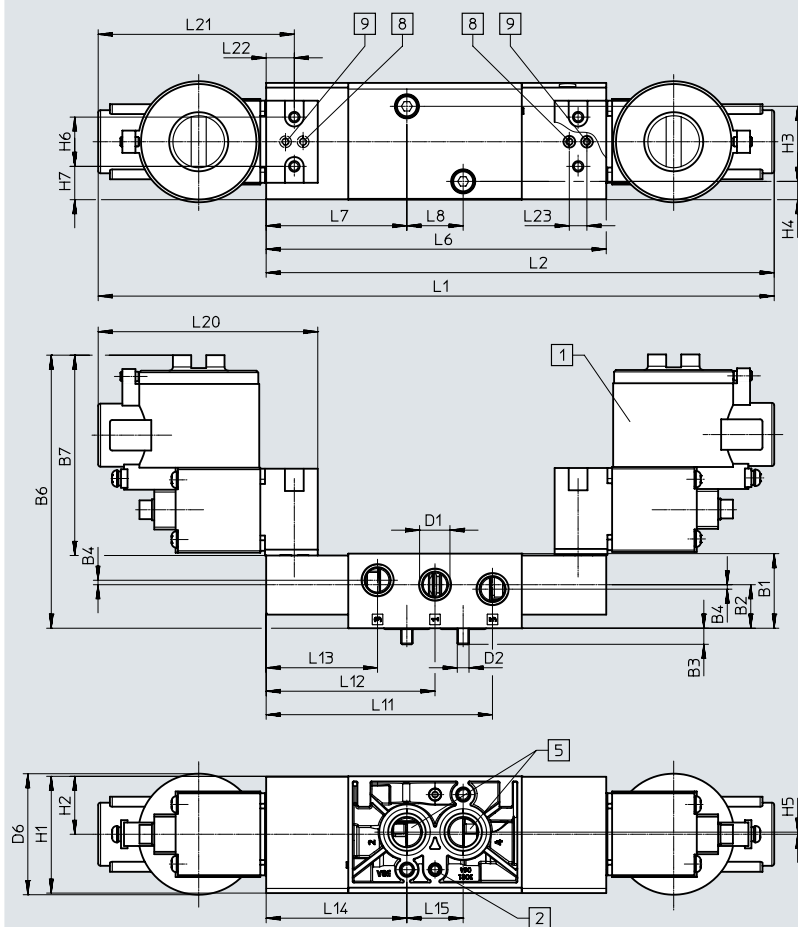
Data sheet – 5/2-way valve VSNC-FT...-P2, double solenoid

Electrical data		
		VSNC-FT-B52-G14-P2 VSNC-FT-B52-N14-P2
Electrical connection		–
Characteristic coil data		See solenoid coil, to be ordered separately
Switching time changeover	[ms]	2
Permissible voltage fluctuations	[%]	–

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

Data sheet – 5/2-way valve VSNC-FT...-P2, double solenoid

Dimensions

Download CAD data → www.festo.com

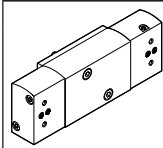
- [1] Solenoid coil
 [2] $\varnothing 5.5$ (for threaded pin to DIN 946-M5x10-45H)
 [5] Working port 2 and 4, NAMUR port pattern
 [8] Pilot air from the valve (CNOMO connection to ISO 15218)
 [9] Pilot air into the valve (CNOMO connection to ISO 15218)

Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	H6	H7
VSNC-FT-B52-G14-P2	31.8	~18.6	~6.9	1.9	G 1/4	M5	49.8	24.7	32	7.8	0.9	21	14.2
VSNC-FT-B52-N14-P2					1/4 NPT								

Type	L6	L7	L8	L11	L12	L13	L14	L15	L22	L23
VSNC-FT-B52-G14-P2	145	60	24	96.5	72	47.5	60	24	22	7.5
VSNC-FT-B52-N14-P2										

Type	B6	B7	D6 $\varnothing$	L1	L2	L20	L21
CNOMO solenoid coil							
MGXIAH...	101.3	70.3	–	281	213	93	80
MGXDH...	116.4	85.4	51.6	288.2	216.6	93.6	83.6

Data sheet – 5/2-way valve VSNC-FT...-P2, double solenoid

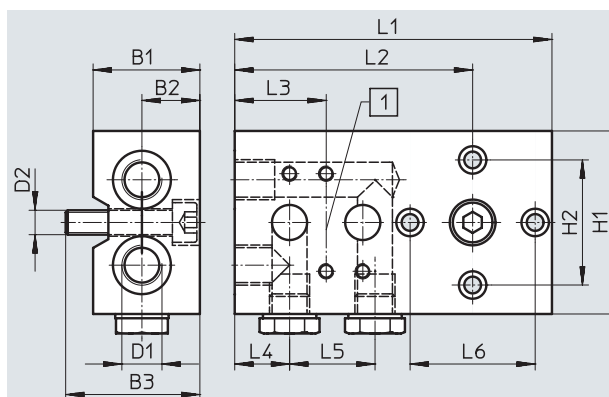
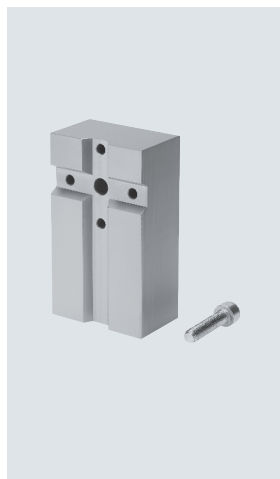
Ordering data – Valves		
Directional control valve without solenoid coil		
	Part no.	Type
	8114687	VSNC-FT-B52-G14-P2
	8114699	VSNC-FT-B52-N14-P2

Accessories

Sub-base

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

Material of sub-base:
 Ematal-coated aluminium
 Material of seals: NBR
 Contains paint-wetting
 impairment substances,
 RoHS-compliant



Dimensions [mm] and ordering data

B1	B2	B3	D1	D2	H1	H2	L1	L2	L3	L4	L5	L6	CRC ¹⁾	Part no.	Type
35	19	44	G1/4	M8	60	41	104	78	30	18	28	41	4	563396	VABS-S7-S-G14

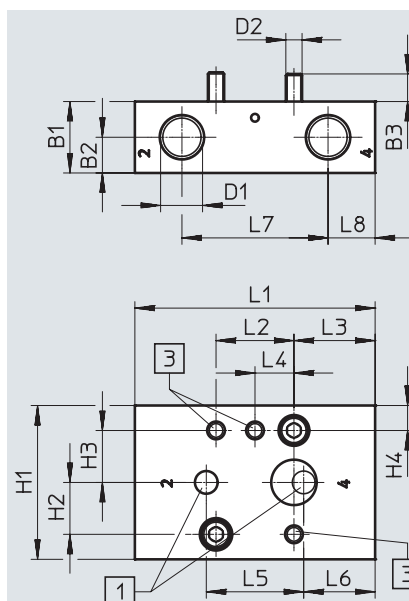
1) Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (→ also FN 940082), using appropriate media.

Connecting plate

Mounting position: Any
 Type of mounting: Via through-hole
 Port 2, 4: On top
 Operating pressure:
 1.5 ... 10 bar
 Operating medium: compressed air to ISO 8573-1:2010 [7:-:-]
 Temperature (ambient/medium/storage): -20 ... +60°C
 Weight: 192 g

Plate material: Wrought
 aluminium alloy
 Note on materials:
 Contains paint-wetting impair-
 ment substances (not tested);
 RoHS-compliant



- [1] Working port 2 and 4, NAMUR
 port pattern 1/4
 [3] Hole for M5 thread

Dimensions [mm] and ordering data

B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	L6	L7	L8	CRC ¹⁾	Part no.	Type
22	11	8.5	G1/4	M5	47.4	16	16	7.7	74	24	25	12	30	22	45	14.5	2	8098884	VABS-B14-T-FG14
			1/4 NPT															8099628	VABS-B14-T-FN14

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

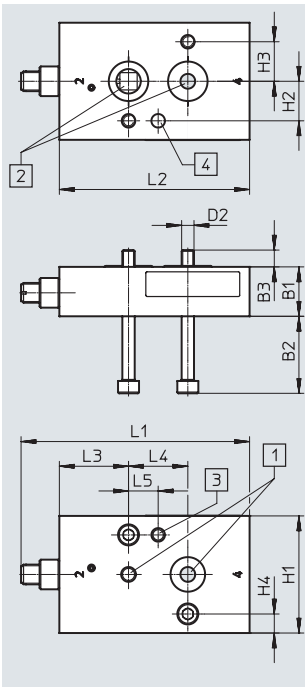
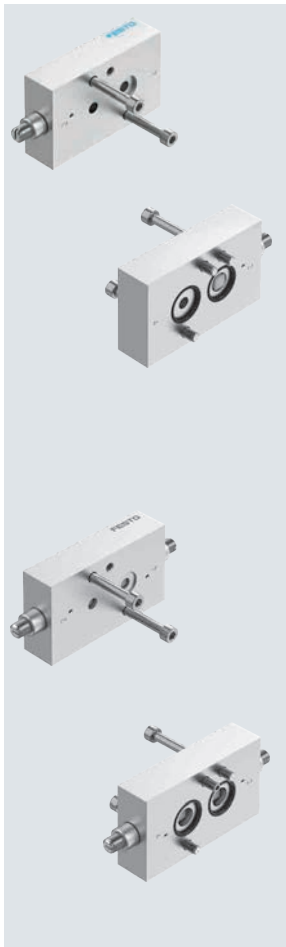
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Throttle plate

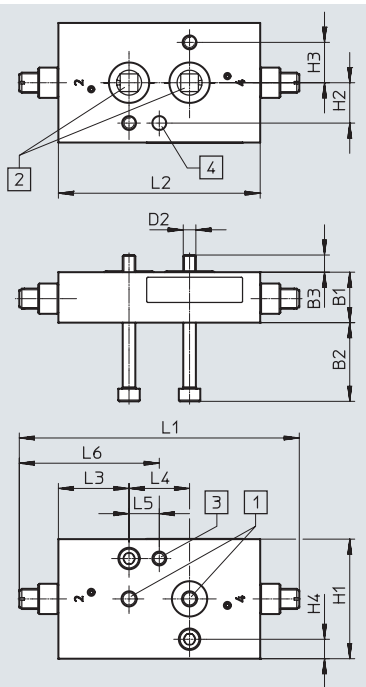
Mounting position: Any
Type of mounting: Via through-hole
Operating pressure: 1.5 ... 10 bar
Operating medium: compressed air to ISO 8573-1:2010 [7:-:-]
Temperature (ambient/medium/storage): -20 ... +60°C
Weight:
VABF ... P1: 215.5 g
VABF ... P2: 229 g

Plate material:
Wrought aluminium alloy
Note on materials:
Contains paint-wetting impair-
ment substances (not tested);
RoHS-compliant



Single-acting VABF...P1

- [1] NAMUR port pattern 1/4
- [2] NAMUR port pattern 1/4



Double-acting VABF...P2

- [3] Hole for M5 thread
- [4] Hole, $\varnothing$ 5.5 mm (for threaded pin to DIN 913-M5x10-45H)

Dimensions [mm] and ordering data																	CRC ¹⁾	Part no.	Type
B1	B2	B3	D2	H1	H2	H3	H4	L1		L2	L3	L4	L5	L6					
								min.	max.					min.	max.				
20	31.2	6.8	M5	47.4	16	16	7.7	86.5	92.5	77	28	24	12	-	-	2	8098885	VABF-B14-F1B1P1-FF14	
								99	110	80				49.5	55.5		8098887	VABF-B14-F1B1P2-FF14	

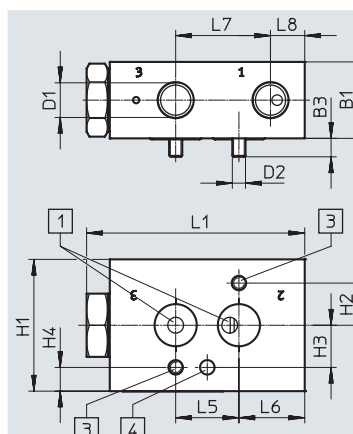
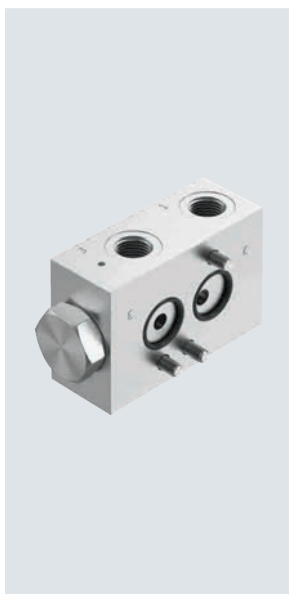
1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Exhaust plate

Mounting position: Any
 Type of mounting: Via through-hole
 Operating pressure: 1.5 ... 10 bar
 Operating medium:
 Compressed air to ISO 8573-1:2010 [7:0:0]
 Temperature (ambient/medium/storage): -20 ... +60°C
 Weight: 280.5 g

Plate material:
 Wrought aluminium alloy
 Note on materials:
 Contains paint-wetting impairment substances (not tested);
 RoHS-compliant



- [1] NAMUR port pattern 1/4
- [3] Hole for thread
- [4] Hole, $\varnothing$ 5.5 mm (for threaded pin to DIN 913-M5x10-45H)

Dimensions [mm] and ordering data														Part no.	Type
B1	B3	D1	D2	H1	H2	H3	H4	L1	L5	L6	L7	L8	CRC ¹⁾		
29	7	G1/4	M5	50	16	16	9	82.8	24	25	36	13	2	8099350	VABF-B14-M3-G14
		1/4 NPT												8099627	VABF-B14-M3-N14

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

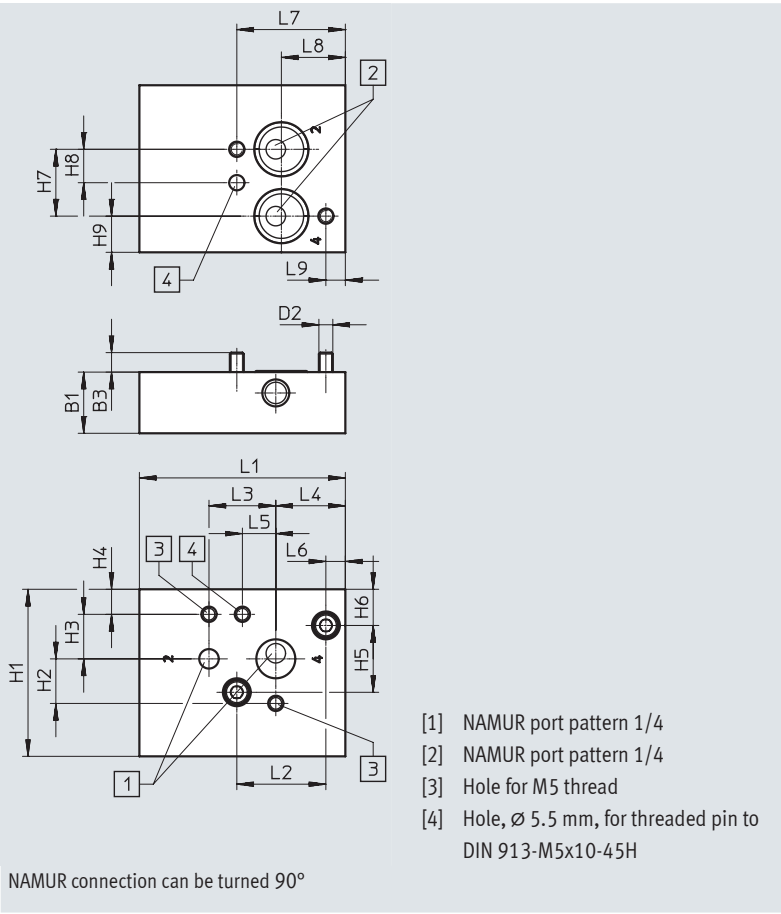
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Mounting plate

Mounting position: Any
Type of mounting: Via through-hole
Operating pressure: 1.5 ... 10 bar
Operating medium: Compressed air to ISO 8573-1:2010 [7:0:0]
Temperature (ambient/medium/storage): -20 ... +60°C
Weight: 255.5 g

Plate material: Wrought aluminium alloy
Note on materials: Contains paint-wetting impairment substances (not tested); RoHS-compliant
Purpose: The mounting plate enables the NAMUR connection to be turned 90° in tight installation spaces.
Additional benefit: The mounting plate can be used to mount a 1/4" NAMUR valve on a 1/2" actuator.



Dimensions [mm] and ordering data												
B1	B3	D2	H1	H2	H3	H4	H5	H6	H7	H8	Part no.	Type
22	7	M5	60	16	16	9	24	13	24	12	8098888	VABS-B14-90-FF14

H9	L1	L2	L3	L4	L5	L6	L7	L8	L9	CRC ¹⁾	Part no.	Type
13	74	32	24	25	12	7	39	23	7	2	8098888	VABS-B14-90-FF14

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Mounting plate

Mounting position: Any

Type of mounting: Via through-hole

Operating pressure:

1.5 ... 10 bar

Operating medium:

Compressed air to ISO 8573-

1:2010 [7:0:0]

Temperature (ambient/medium/
storage): -20 ... +60°C

Weight: 255.5 g

Plate material:

Wrought aluminium alloy

Note on materials:

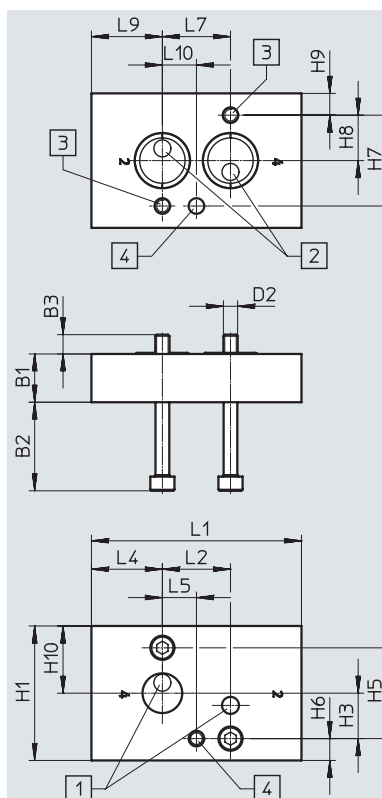
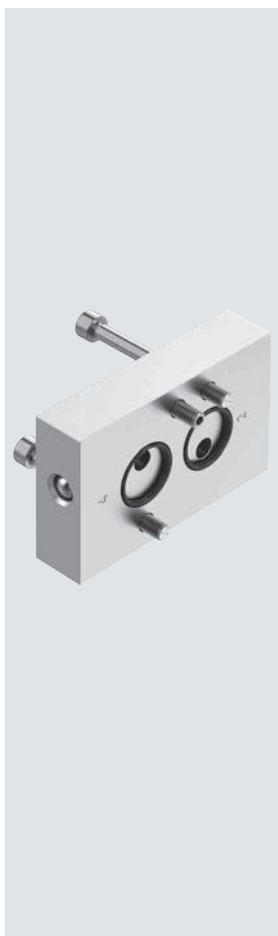
Contains paint-wetting impair-
ment substances (not tested);

RoHS-compliant

Purpose: The mounting plate
enables the NAMUR connection
to be turned 180° in tight instal-
lation spaces.

Additional benefit:

The mounting plate can be used
to mount a 1/4" NAMUR valve on
a 1/2" actuator.



NAMUR connection can be turned 180°

- [1] NAMUR port pattern 1/4
- [2] NAMUR port pattern 1/4
- [3] Hole for M5 thread
- [4] Hole, $\varnothing$ 5.5 mm, for threaded pin to
DIN 913-M5x10-45H

Dimensions [mm] and ordering data

B1	B2	B3	D2	H1	H3	H5	H6	H7	H8	H9	H10	L1	L2	L4	L5	L7	L9	L10	CRC ¹⁾	Part no.	Type
17	31.2	6.8	M5	47.4	16	32	7.7	32	16	7.7	23.7	74	24	25	12	24	25	12	2	8099347	VABS-B14-180-FF14

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

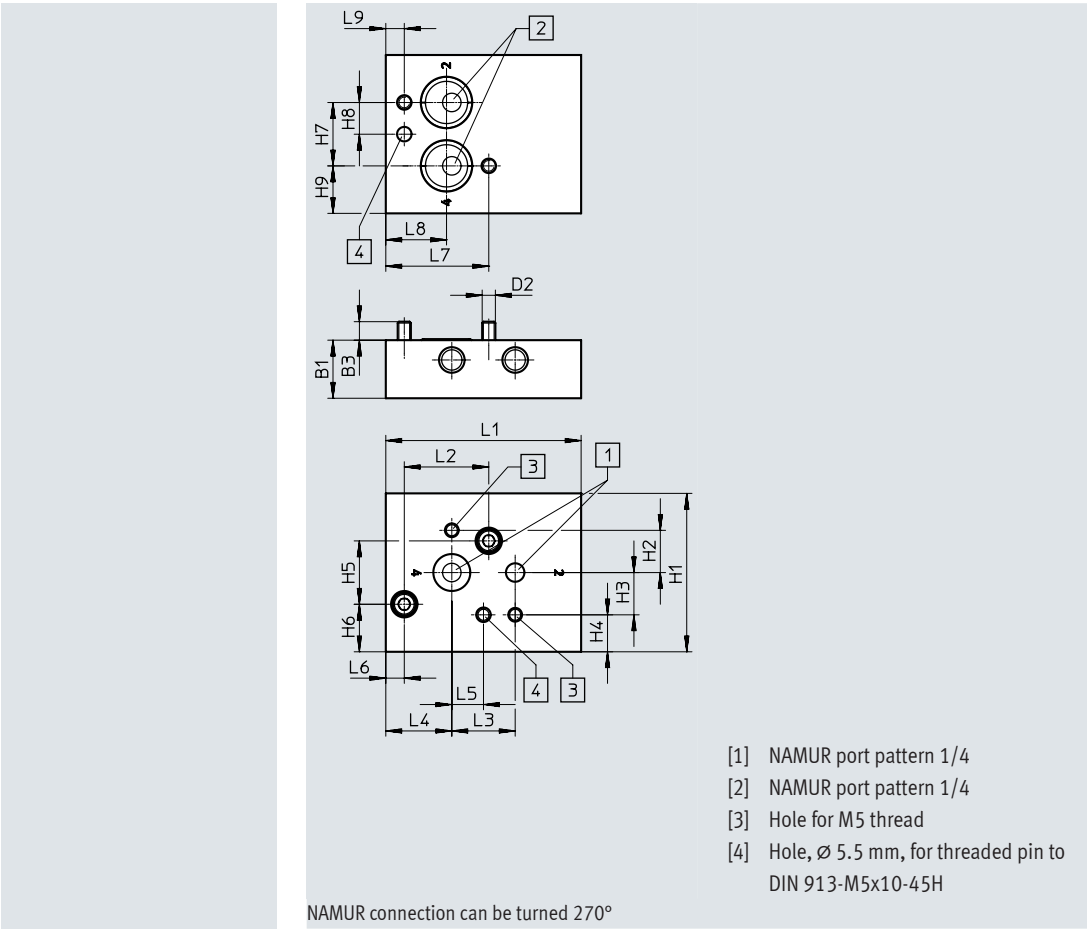
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Mounting plate

Mounting position: Any
Type of mounting: Via through-hole
Operating pressure: 1.5 ... 10 bar
Operating medium: Compressed air to ISO 8573-1:2010 [7:0:0]
Temperature (ambient/medium/storage): -20 ... +60°C
Weight: 255.5 g

Plate material: Wrought aluminium alloy
Note on materials: Contains paint-wetting impairment substances (not tested); RoHS-compliant
Purpose: The mounting plate enables the NAMUR connection to be turned 270° in tight installation spaces.
Additional benefit: The mounting plate can be used to mount a 1/4" NAMUR valve on a 1/2" actuator.



Dimensions [mm] and ordering data												Part no.	Type
B1	B3	D2	H1	H2	H3	H4	H5	H6	H7	H8			
22	7	M5	60	16	16	14	24	18	24	12		8098891	VABS-B14-270-FF14

H9	L1	L2	L3	L4	L5	L6	L7	L8	L9	CRC ¹⁾	Part no.	Type
18	74	32	24	25	12	7	39	23	7	2	8098891	VABS-B14-270-FF14

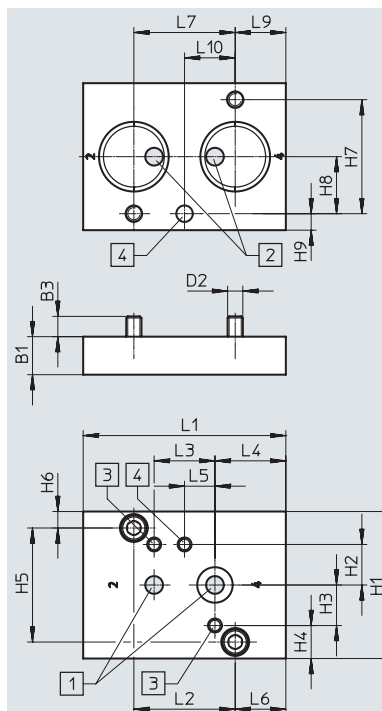
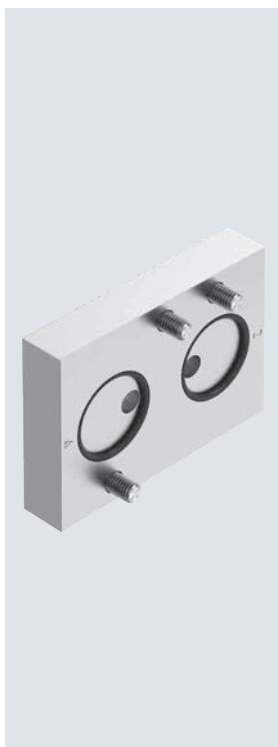
1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Mounting plate

Mounting position: Any
 Type of mounting: Via through-hole
 Operating pressure:
 1.5 ... 10 bar
 Operating medium:
 Compressed air to ISO 8573-1:2010 [7:0:0]
 Temperature (ambient/medium/storage): -20 ... +60°C
 Weight: 188 g

Plate material:
 Wrought aluminium alloy
 Note on materials:
 Contains paint-wetting impairment substances (not tested);
 RoHS-compliant
 Purpose:
 Mounting plate with NAMUR connection 1/2 and 1/4



- [1] NAMUR port pattern 1/4
- [2] NAMUR port pattern 1/2
- [3] Hole for M5 thread
- [4] Hole, $\varnothing$ 6.5 mm, for threaded pin to DIN 913-M6x10-45H

Dimensions [mm] and ordering data											Part no.	Type
B1	B3	D2	H1	H2	H3	H4	H5	H6	H7	H8		
15	8	M6	58	16	16	13	45	6.5	45	22.5	8098889	VABA-B14-FL12-FL14

H9	L1	L2	L3	L4	L5	L6	L7	L9	L10	CRC ¹⁾	Part no.	Type
6.5	80	40	24	28	12	20	40	20	20	2		
											8098889	VABA-B14-FL12-FL14

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

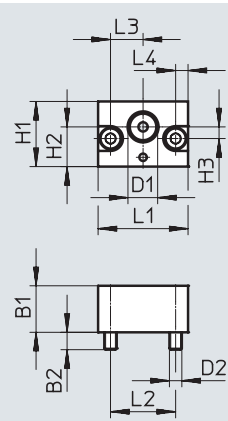
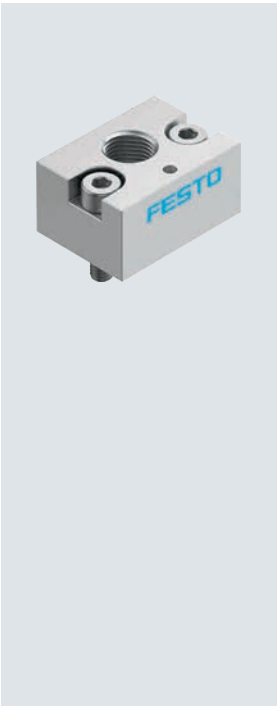
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Connector

Mounting position: Any
Type of mounting: Via through-hole
Operating pressure: 1.5 ... 10 bar
Operating medium: Compressed air to ISO 8573-1:2010 [7:0:0]
Temperature (ambient/medium/storage): -20 ... +60°C
Weight: 26 g

Plate material: Wrought aluminium alloy
Note on materials: Contains paint-wetting impairment substances (not tested); RoHS-compliant
Purpose: Connector for pneumatic control system (CNOMO connection).

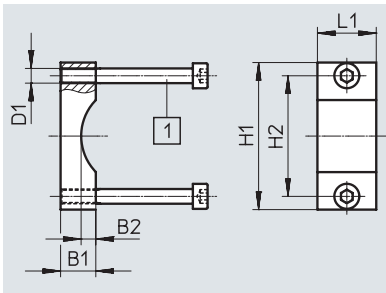


Dimensions [mm] and ordering data												Part no.	Type
B1	B2	D1	D2	H1	H2	H3	L1	L2	L3	L4	CRC ¹⁾		
15	5.6	G1/8	M4	21	12.8	~3.8	29	21	10.5	4	2	8099850	VABD-B14-P1-G18
		1/8 NPT										8099629	VABD-B14-P1-N18

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Mounting bracket

Material of bracket: Wrought aluminium alloy
Contains paint-wetting impairment substances, RoHS-compliant



[1] NAMUR port pattern

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. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

Accessories

Exhaust protection

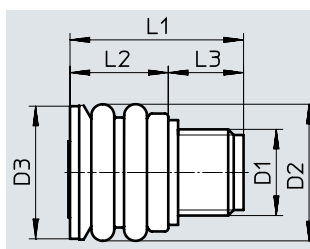
Material:

EPDM, PA

Contains paint-wetting

impairment substances,

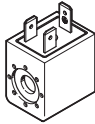
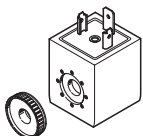
RoHS-compliant



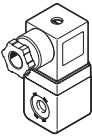
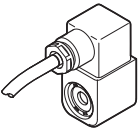
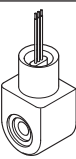
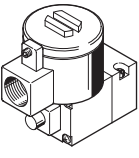
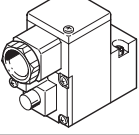
Dimensions [mm] and ordering data								Part no.	Type
D1	D2	D3	L1	L2	L3	CRC ¹⁾			
G1/4, 1/4 NPT	21	20.5	26.5	15	11.5	3		563400	VABD-D3-SN-G14

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

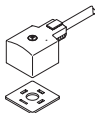
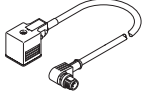
High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

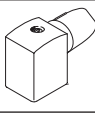
Ordering data – Solenoid coil		Part no.	Type
Characteristic coil data			
Electrical plug pattern to industry standard, type B		Data sheets → Internet: vacf	
	12 V DC; 3.4 W	8030801	VACF-B-B2-5
	24 V DC; 3.3 W	8030802	VACF-B-B2-1
	48 V DC; 3.4 W	8030803	VACF-B-B2-7
	24 V AC; 50/60 Hz, pick-up power 3.9 VA, holding power 2.6 VA	8030804	VACF-B-B2-1A
	48 V AC; 50/60 Hz, pick-up power 3.9 VA, holding power 2.7 VA	8030805	VACF-B-B2-7A
	110/120 V AC; 50/60 Hz, pick-up power 4.4 VA, holding power 3.3 VA	8030806	VACF-B-B2-16B
	230/240 V AC; 50/60 Hz, pick-up power 5.8 VA, holding power 4.6 VA	8030808	VACF-B-B2-3W
Electrical plug 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 2.5 VA, holding power 1.7 VA	8030824	VACF-A-A1-1A
	48 V AC; 50/60 Hz, pick-up power 2.5 VA, holding power 1.7 VA	8030825	VACF-A-A1-7A
	110/120 V AC; 50/60 Hz, pick-up power 2.7 VA, holding power 1.9 VA	8030826	VACF-A-A1-16B
	230/240 V AC; 50/60 Hz, pick-up power 3.9 VA, holding power 2.8 VA	8030828	VACF-A-A1-3W

Accessories

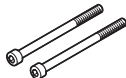
Ordering data – Solenoid coil		Part no.	Type
Characteristic coil data		Data sheets → Internet: vacn	
Type of ignition protection: intrinsically safe Ex-ia			
	28V	8029139	VACN-N-A1-1-EX-4-A
Type of ignition protection: non-sparking Ex-nA			
	24 V DC; 2.1 W	8029136	VACN-N-A1-1-EX2-N
	110 V AC; 50 Hz, pick-up power 6.9 VA, holding power 4.1 VA	8029137	VACN-N-A1-16B-EX2-N
	110 V AC; 60 Hz, pick-up power 5.4 VA, holding power 3.2 VA		
	230 V AC; 50 Hz, pick-up power 6.9 VA, holding power 4.1 VA	8029138	VACN-N-A1-3A-EX2-N
	230 V AC; 60 Hz, pick-up power 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 5.2 VA, holding power 3.1 VA	8029134	VACN-N-A1-16B
	110 V AC; 60 Hz, pick-up power 4.2 VA, holding power 2.5 VA		
	230 V AC; 50 Hz, pick-up power 6.2 VA, holding power 3.7 VA	8029135	VACN-N-A1-3A
	230 V AC; 60 Hz, pick-up power 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 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 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
Pilot valves with CNOMO port pattern, to ISO 15218			
	24 V DC; 3.0 W, (suitable for vacuum operation)	535615	MGXDH-3/2-1.2-24DC-EX
	110 V AC; 50/60 Hz, pick-up power 7.7 VA, holding power 3.8 VA, (suitable for vacuum operation)	535616	MGXDH-3/2-1.2-110AC-EX
	230 V AC; 50/60 Hz, pick-up power 10 VA, holding power 6 VA, (suitable for vacuum operation)	535617	MGXDH-3/2-1.2-230AC-EX
	24 V DC; 1.5 W, (suitable for vacuum operation)	535614	MGXIAH-3/2-0.8-24DC-EX
Cable connector			
	For pilot valves with CNOMO port pattern, to ISO 15218, M20x1.5	4197362	NETC-P-M20-EX4

Accessories

Ordering data						
	Description	Nominal operating voltage [V]		Cable length [m]	Part no.	Type
Connecting cable Data sheets → Internet: kmc						
	For valves with D and N1 solenoid coils	24 DC	• Signal status indication	2.5	30931	KMC-1-24 DC-2.5-LED
				5	30933	KMC-1-24 DC-5-LED
		230 V 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 indication	2.5	30935	KMF-1-24DC-2.5-LED
Connecting cable Data sheets → Internet: nebv						
	For valves with D and N1 solenoid coils. Angled socket, plug pattern 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 indication • Protective circuit	0.3	3679771	NEBV-A1W3-P-0.3-N-M12W3
				0.6	3679772	NEBV-A1W3-P-0.6-N-M12W3
				0.6	3679776	NEBV-A1W3-P-K-0.6-LE3

Ordering data			
	Description	Part no.	Type
Plug socket Data sheets → Internet: mssd			
	3-pin, angled socket, square design, plug pattern type B to industry standard 11 mm	539710	MSSD-F-M16
	3-pin, angled socket, square design, plug pattern type A to DIN EN 175301-803	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 Data sheets → Internet: qs			
	G male thread with internal hexagon	186108	QS-G1/4-6-I
		186110	QS-G1/4-8-I
		186112	QS-G1/4-10-I
	NPT male thread with internal hexagon	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 Data sheets → Internet: u			
	G male thread, polymer design	534223	U-1/4-20
		2316	U-1/4
	G male thread, die-cast design	6842	U-1/4-B
		NPT male thread, die-cast design	12639

Accessories

Ordering data		Part no.	Type
Description			
Illuminating seal		Data sheets → 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
Screw set			
	Can be used for connectors and also for the mounting plate that can be turned 180° Weight per screw: 12 g, material: High-alloy steel, size: M5	8105115	VAME-B14-S-M5

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