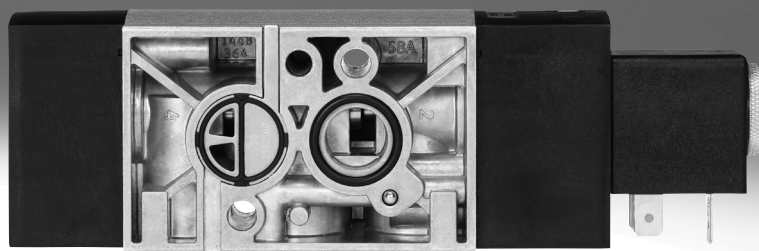


## Solenoid valves VSNC

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star!

## 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

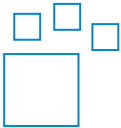
-  - Voltage  
12, 24, 48 V DC  
24, 48, 120, 230 VAC
-  - Operating pressure  
1.5 ... 10 bar
-  - Temperature range  
-20 ... 60°C

### Flexible

- Application-optimised variant with aluminium cover, stainless steel armature tube for IP65 and Ex coils, and protective cap for armature tube exhaust
- One armature tube system for all Ex solenoid systems
- 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



### Ordering data – Product options



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

The configurator can be found at  
→ [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...)  
Enter the part number or the type.

Part no.	Type
8026033	VSNC

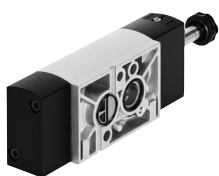
## Key features, product range overview VSNC-...

### VSNC-F8

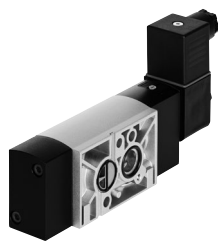


VSNC with IP65 solenoid

### VSNC-F ... -FN



VSNC piston spool



VSNC with Ex-ia solenoid



VSNC with Ex-nA solenoid

### VSNC-FT ... -FN



VSNC poppet seat

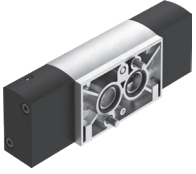


VSNC with FM solenoid

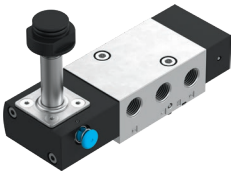


VSNC with Ex-m solenoid

VSNC-F...-P2



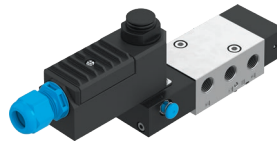
VSNC-F...-F19, VSNC-F...-F19A



VSNC poppet seat



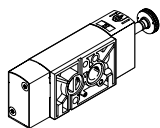
VSNC...-F19 with Ex-me solenoid



VSNC...-F19A with Ex-ia 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

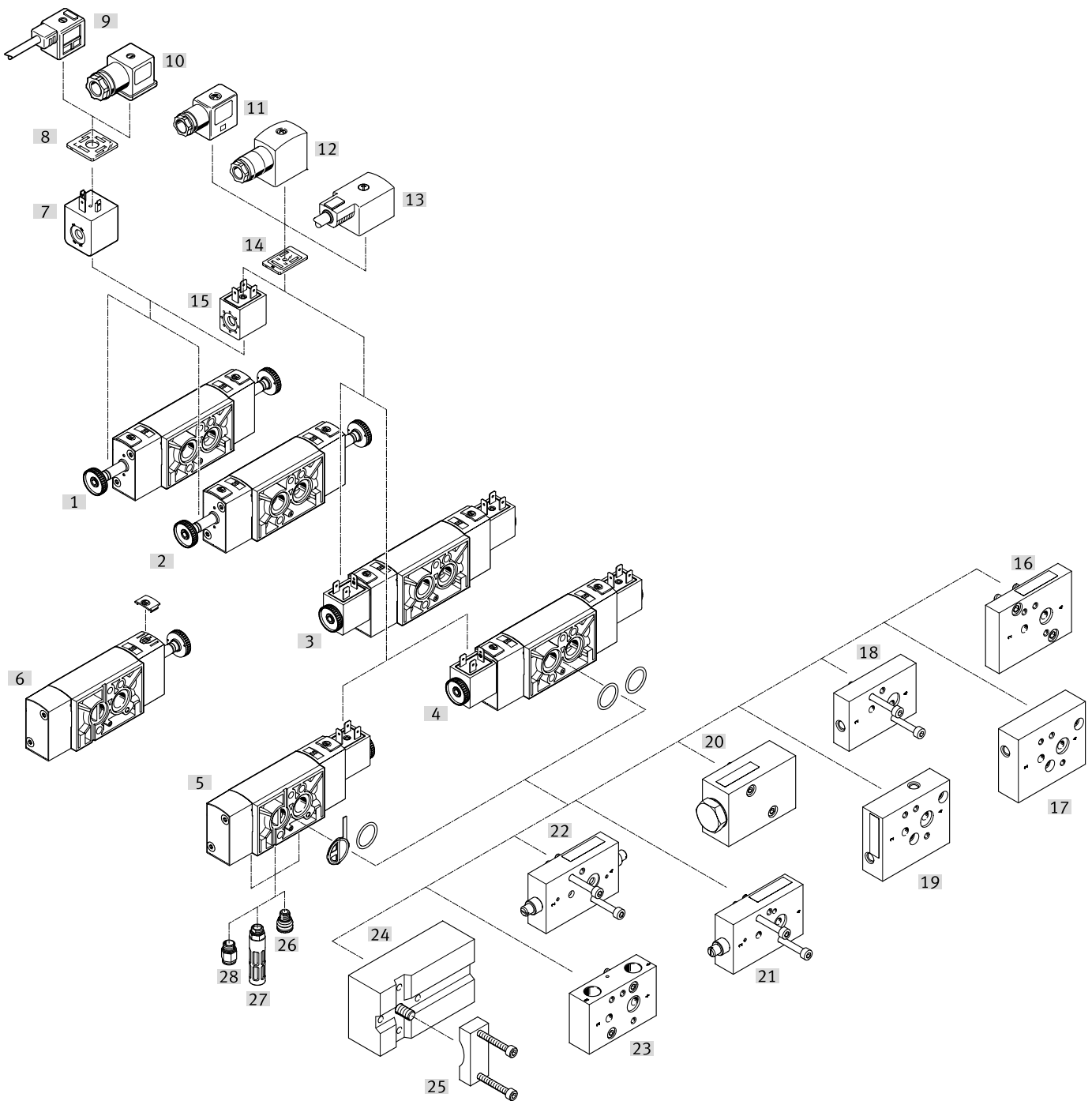
Design	Type	Pneumatic connection 1, 3, 5	Pneumatic connection 2, 4, based on standard	Standard nominal flow rate [l/min]	→ Page
<b>5/2-way or 3/2-way valve, convertible, single solenoid</b>					
	VSNC-FC-M52-MD-G14-F8	G 1/4	VDI/VDE 3845 NAMUR 1/4	1250	21
	VSNC-FC-M52-MD-N14-F8	1/4 NPT			
<b>5/2-way valve, double solenoid</b>					
	VSNC-F-B52-D-G14-F8	G 1/4	VDI/VDE 3845 NAMUR	1350	26
	VSNC-F-B52-D-N14-F8	1/4 NPT			
<b>5/3-way valve</b>					
	VSNC-F-P53C-MD-G14-F8	G 1/4	VDI/VDE 3845 NAMUR	1250	29
	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	

Coils	IP65 industrial type B						IP65 type A							
	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, C	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, P	■	■	■	■	■	■	■	■	■	■	■	■	■	■
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

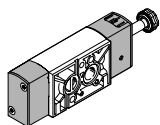


## Peripherals overview – VSNC-...-F8

Mounting attachments and accessories		Brief description	→ Page / Internet
[1]	VSNC-...-F8 Solenoid valves	5/2-way double solenoid valve with plastic cover and brass armature tube for controlling double-acting actuators	26
[2]	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	29
[3]	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	26
[4]	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	29
[5]	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	21
[6]	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	21
[7]	VACFA Solenoid coil	Electrical plug pattern to DIN EN 175301-803, type A	87
[8]	MC-LD Illuminating seal	Illuminating seal for indicating the switching status	91
[9]	KMC Connecting cable	–	90
[10]	MSSD-C Plug socket	Electrical plug pattern to DIN EN 175301-803, type A	90
[11]	MSSD-F Plug socket	Electrical plug pattern to Festo standard with screw terminal connection	90
[12]	MSSD-F-S Plug socket	Electrical plug pattern to Festo standard with insulation displacement connection	90
[13]	KMF Connecting cable	–	kmf
[14]	MF-LD Illuminating seal	Illuminating seal for indicating the switching status	91
[15]	VACF-B Solenoid coil	Electrical plug pattern to Festo standard for MSSD-F	87
[16]	VABA-B14-FL12-FL14 Mounting plate	Mounting plate with NAMUR connection 1/2 and 1/4	85
[17]	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	84
[18]	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	83
[19]	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	82
[20]	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	81
[21]	VABF-B14-F1B1P1-FF14 Throttle plate (single-acting)	Flow control for single-acting quarter turn actuators	80
[22]	VABF-B14-F1B1P2-FF14 Throttle plate (double-acting)	Flow control for double-acting quarter turn actuators	80
[23]	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.	79
[24]	VABS-S7-S-G14 Connection set	Sub-base for attaching the valve to a NAMUR rib	79
[25]	VAME-S7-Y Mounting bracket	Alternative (instead of screw) for mounting the valve on a NAMUR rib using a mounting bracket	86
[26]	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	87
[27]	U Silencers	–	90
[28]	QS Push-in fitting	For connecting compressed air tubing with standard O.D.	90

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

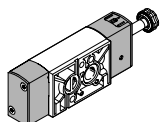
### VSNC-F ... -FN



- 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
<b>3/2-way or 5/2-way valve ...-FN, convertible, single solenoid</b>					
	VSNC-FC-M52-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1250	33
	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			
<b>5/2-way valve ...-FN, double solenoid</b>					
	VSNC-F-B52-D-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1350	38
	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			
<b>5/3-way valve ...-FN</b>					
	VSNC-F-P53C-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1250	42
	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
<b>3/2-way or 5/2-way valve ...-FN, convertible, single solenoid</b>					
	VSNC-FTC-M52-MD-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	800	46
	VSNC-FTC-M52-MD-N14-FN	1/4 NPT			
	VSNC-FTC-M52-MD-G14-FN-1A1	G 1/4			
<b>5/2-way valve ...-FN, double solenoid</b>					
	VSNC-FT-B52-D-G14-FN	G 1/4	VDI/VDE 3845 NAMUR	1000	49
	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

Coils Valve function	IP65			Ex-nA			Ex-ia	Ex-mb			AEx-m		
	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, C	■	■	■	■	■	■	■	■	■	■	■	■	■
5/3-way, P	■	■	■	■	■	■	■	■	■	■	■	■	■
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



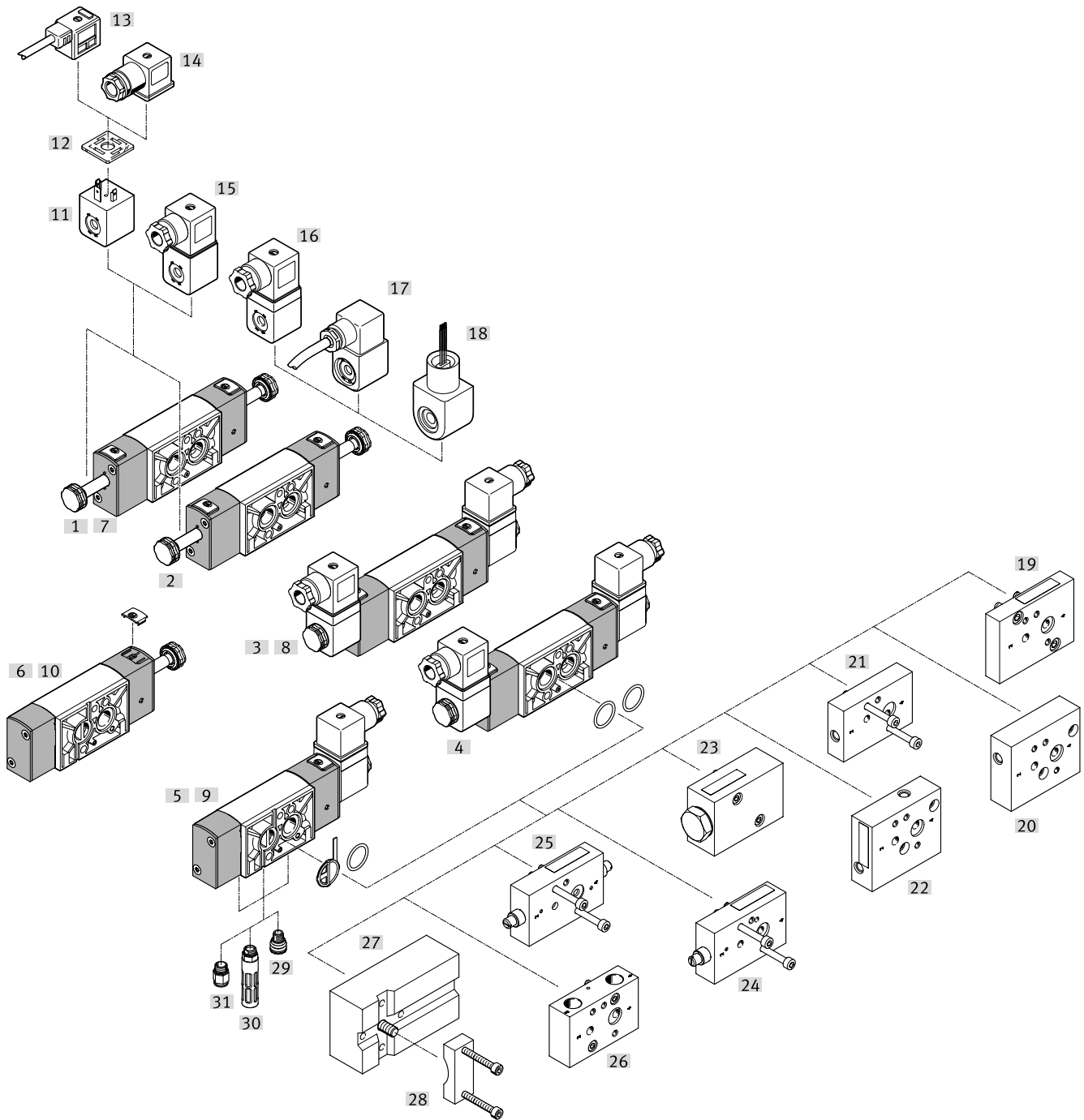
- Category II 2G II 2D
- Type of ignition protection Ex-m
- IEC Ex certification
- ATEX certification

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



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

Peripherals overview – VSNC...-FN

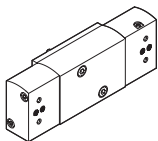


## Peripherals overview – VSNC-F...-FN

Mounting attachments and accessories		Brief description	→ Page / Internet
[1]	VSNC-F ...-FN	5/2-way double solenoid valve with aluminium cover and stainless steel armature tube	38
[2]	Piston spool	5/3-way valve, normally open, closed or exhausted with aluminium cover and stainless steel armature tube	42
[3]		5/2-way double solenoid valve with aluminium cover, stainless steel armature tube and Ex-ia solenoid coil	38
[4]		5/3-way valve, normally open, closed or exhausted with aluminium cover, stainless steel armature tube and Ex-ia solenoid coil	42
[5]		3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover, stainless steel armature tube and Ex-ia solenoid coil	33
[6]		3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover and stainless steel armature tube	33
[7]	VSNC-FT- ... -FN	5/2-way double solenoid valve with aluminium cover and stainless steel armature tube	49
[8]	Poppet seat	5/2-way double solenoid valve with aluminium cover, stainless steel armature tube and 24 V DC solenoid coil	49
[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	46
[10]		3/2-way and 5/2-way single solenoid valve with converting seal, aluminium cover and stainless steel armature tube	46
[11]	VACN-N Solenoid coil	Electrical plug pattern to DIN EN 175301-803, type A	–
[12]	MC-LD Illuminating seal	Illuminating seal for indicating the switching status	91
[13]	KMC Connecting cable	–	kmc
[14]	MSSD-C Plug socket	Electrical plug pattern to DIN EN 175301-803, type A	90
[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)	89
[19]	VABA-B14-FL12-FL14 Mounting plate	Mounting plate with NAMUR connection 1/2 and 1/4	85
[20]	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.	84
[21]	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.	83
[22]	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.	82
[23]	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.	81
[24]	VABF-B14-F1B1P1-FF14 Throttle plate (single-acting)	Flow control for single-acting quarter turn actuators.	80
[25]	VABF-B14-F1B1P2-FF14 Throttle plate (double-acting)	Flow control for double-acting quarter turn actuators.	80
[26]	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.	79
[27]	VABS-S7-S-G14 Connection set	Sub-base for attaching the valve to a NAMUR rib	79
[28]	VAME-S7-Y Mounting bracket	Alternative (instead of screw) for mounting the valve on a NAMUR rib using a mounting bracket	86
[29]	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	87
[30]	U Silencers	–	90
[31]	QS Push-in fitting	For connecting compressed air tubing with standard O.D.	90

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

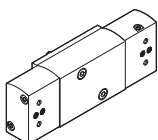
### VSNC-F ... -P2



- 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
<b>5/3-way valve ...-P2</b>					
	VSNC-F-P53C-M-G14-P2	G 1/4	VDI/VDE 3845 NAMUR	1250	63
	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	

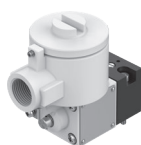
### VSNC-FT ... -P2



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

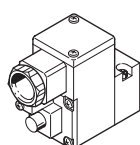
Design	Type	Pneumatic connection 1, 3, 5	Pneumatic connection 2, 4, based on standard	Standard nominal flow rate [l/min]	→ Page
<b>3/2-way or 5/2-way valve ...-FN, convertible, single solenoid</b>					
	VSNC-FTC-M52-M-G14-P2	G 1/4	VDI/VDE 3845 NAMUR	800	53
	VSNC-FTC-M52-M-N14-P2	1/4 NPT			
<b>5/2-way valve ...-FN, double solenoid</b>					
	VSNC-FT-B52-G14-P2	G 1/4	VDI/VDE 3845 NAMUR	1000	57
	VSNC-FT-B52-N14-P2	1/4 NPT			

### Pilot valve MGXDH-...-EX



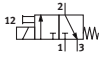
- Category II 2G II 2D
- Type of ignition protection Ex d
- IEC Ex certification
- ATEX certification

### With pilot valve MGXIAH-...-EX, intrinsically safe



- Category II 1G II 1D
- Type of ignition protection Ex ia
- IEC Ex certification
- ATEX certification

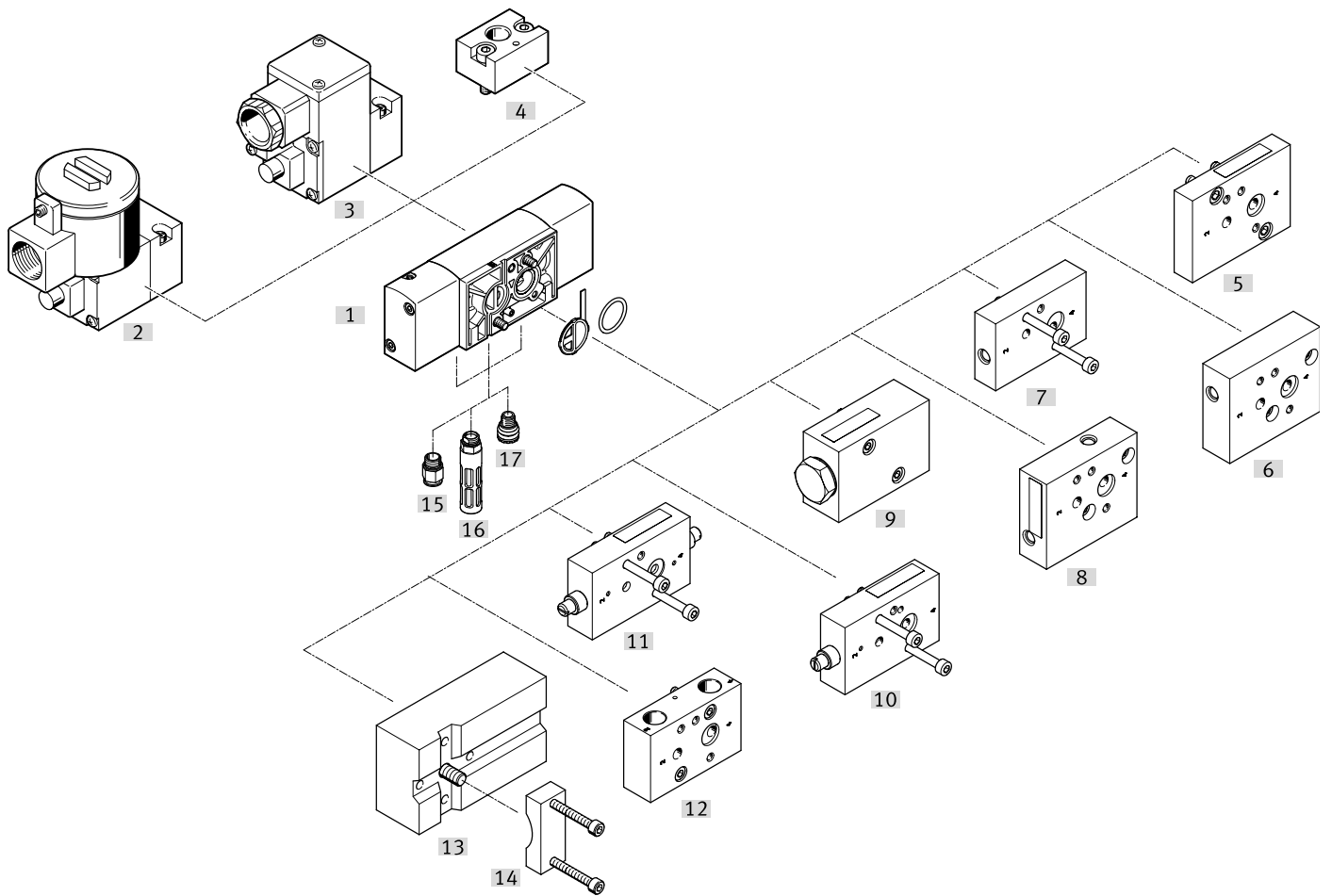
## Key features, product range overview VSNC-...-P2

Pilot valve	MGXDH-3/2-1.2-110AC-EX 535616	MGXDH-3/2-1.2-230AC-EX 535617	MGXDH-3/2-1.2-24DC-EX 535615	MGXIAH-3/2-0.8-24DC-EX 535614
Valve function	3/2-way, closed, single solenoid			
Symbol				
Design	On/off valve			
Actuation type	Electrical			
Type of mounting	CNOMO			
Manual override	Detenting			
Reset method	Mechanical spring			
Direction of flow	Not reversible			
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]	-0.9 ... 8		
	[MPa]	-0.09 ... 0.8		
	[psi]	-13.05 ... 116		
Ambient temperature	[°C]	-20 ... 80		
Duty cycle	[%]	100		
Permissible frequency fluctuations	[%]	± 10		
Insulation class	H			
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)			
	To EU Low Voltage Directive			-
Max. input power Pi	-			-40°C ~+50°C T6 = 2.98W
	-			-40°C ~+65°C T135°C = 2.98W
	-			-40°C ~+65°C T5 = 2.98W
	-			-40°C ~+65°C T6 = 1W
Max. input voltage Ui	[V]	-		
Max. input current Ii	[A]	-		
Effective internal inductance Li		-		
Effective internal capacitance Ci		-		
ATEX category for gas	II 2G			II 1G
Type of ignition protection for gas	ATEX: Ex db IIC T4 Gb		ATEX: Ex db IIC T5 Gb	
	CCC-Ex: Ex d IIC T3/T6 Gb		CCC-Ex: Ex d IIC T3/T6 Gb	
ATEX category for dust	II 2D			II 1D
Type of ignition protection for dust	Ex tb IIIC T135°C Db		Ex tb IIIC T100°C Db	
Explosion-proof ambient temperature	ATEX: -65°C ≤ Ta ≤ +40°C		ATEX: -65°C ≤ Ta ≤ +55°C	
	CCC-Ex: -20°C ≤ Ta ≤ +40°C		-	
Explosion protection certification outside the EU	EPL Db (IEC-EX)			EPL Da (IEC-EX)
	EPL Db (CN)			EPL Da (CN)
	EPL Gb (CN)			EPL Ga (CN)
Explosion protection certification outside the EU	EPL Gb (IEC-EX)			EPL Ga (IEC-EX)
	ATEX: CML 15 ATEX 1119X			ATEX: CML 17 ATEX 2046X
	CCC-Ex: 2020322307001701			CCC-Ex: 2020322307001726
Certificate issuing authority	IEC: IECEx CML 17.0147X			IEC: IECEx CML 17.0030X
Degree of protection	IP66			IP65
Characteristic coil data	110 V AC: 50/60 Hz,	230 V AC: 50/60 Hz,	24 V DC: 3 W	
Pick-up power	7.7 VA,	10 VA,	-	
Holding power	3.8 VA	6 VA	-	
Note on materials	RoHS-compliant			
	Contains paint-wetting impairment substances			
Corrosion resistance class CRC <sup>1)</sup>	2			

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

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

Peripherals overview VSNC-...-P2



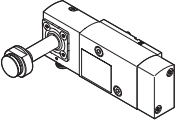
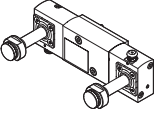
## Peripherals overview VSNC-...-P2

Mounting attachments and accessories		Brief description	→ Page / Internet
[1]	VSNC-...-P2 Solenoid valves	3/2-way or 5/2-way valve -...-F19/F19A, convertible	53
[2]	MGXDH-... Pilot valves	with CNOMO port pattern, to ISO 15218	88
[3]	MGXIAH-... Pilot valves	with CNOMO port pattern, to ISO 15218	88
[4]	VABD-B14-P1-G18 Connector	with CNOMO port pattern, to ISO 15218	88
[5]	VABA-B14-FL12-FL14 Mounting plate	Mounting plate with NAMUR connection 1/2 and 1/4	85
[6]	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	84
[7]	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	83
[8]	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	82
[9]	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	81
[10]	VABF-B14-F1B1P1-FF14 Throttle plate (single-acting)	Flow control for single-acting quarter turn actuators	80
[11]	VABF-B14-F1B1P2-FF14 Throttle plate (double-acting)	Flow control for double-acting quarter turn actuators	80
[12]	VABS-B14-T-F ... 14 Connector plate	Using the sub-base, it is possible to use the NAMUR valve as an inline valve with G1/4" and NPT1/4" thread.	79
[13]	VABS-S7-S-G14 Connection set	Sub-base for attaching the valve to a NAMUR rib	79
[14]	VAME-S7-Y Mounting bracket	Alternative (instead of screw) for mounting the valve on a NAMUR rib using a mounting bracket	86
[15]	QS Push-in fitting	For connecting compressed air tubing with standard O.D.	90
[16]	U Silencers	-	90
[17]	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	87

Key features, product range overview VSNC-...-F19/F19A

**VSNC-FT ... -F19**

- Design: Poppet seat

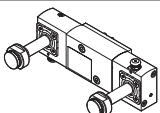
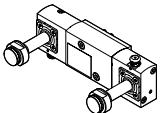
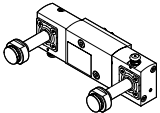
Design	Type	Pneumatic connection 1, 3, 5	Pneumatic ports 2, 4	Standard nominal flow rate [l/min]	→ Page	
<b>3/2-way or 5/2-way valve -...-F19, convertible</b>						
	VSNC-FTC-M52-MH-G14-F19	-	G1/4	VDI/VDE 3845 NAMUR	800	65
	VSNC-FTC-M52-MH-N14-F19		1/4 NPT			
	VSNC-FTC-M52-M-G14-F19		G1/4			
	VSNC-FTC-M52-M-N14-F19		1/4 NPT			
	VSNC-FTC-M52-MH-G14-F19A	Intrinsically safe	G1/4			
	VSNC-FTC-M52-MH-N14-F19A		1/4 NPT			
	VSNC-FTC-M52-M-G14-F19A		G1/4			
	VSNC-FTC-M52-M-N14-F19A		1/4 NPT			
<b>5/2-way valve -...-F19, double solenoid</b>						
	VSNC-FT-B52-H-G14-F19	-	G1/4	VDI/VDE 3845 NAMUR	1000	69
	VSNC-FT-B52-H-N14-F19		1/4 NPT			
	VSNC-FT-B52-G14-F19		G1/4			
	VSNC-FT-B52-N14-F19		1/4 NPT			
	VSNC-FT-B52-H-G14-F19A	Intrinsically safe	G1/4			
	VSNC-FT-B52-H-N14-F19A		1/4 NPT			
	VSNC-FT-B52-G14-F19A		G1/4			
	VSNC-FT-B52-N14-F19A		1/4 NPT			



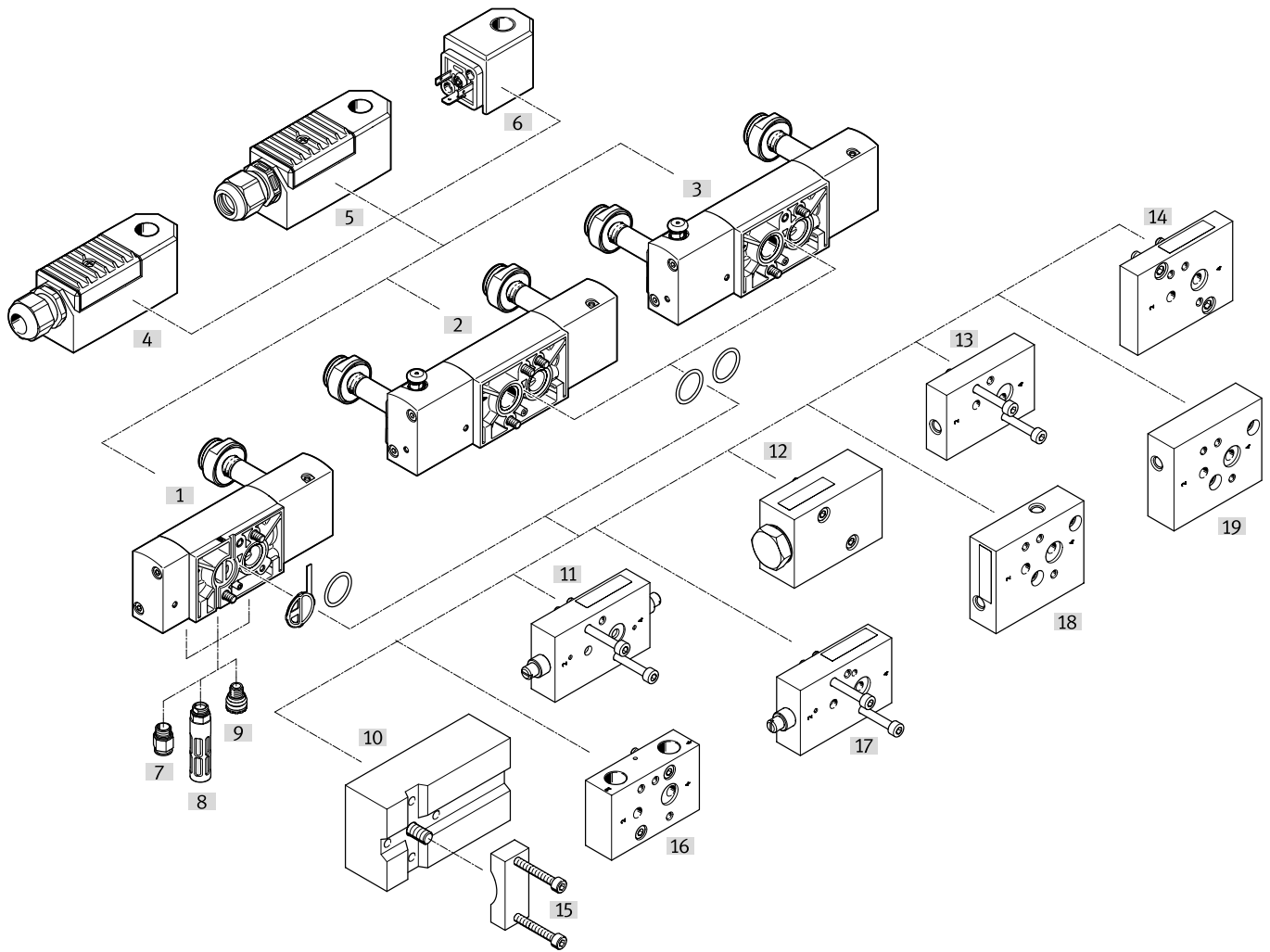
## Key features, product range overview VSNC-...-F19/F19A

## VSNC-F ... -F19

- Design: Piston spool

Design	Type	Pneumatic connection 1, 3, 5	Pneumatic ports 2, 4	Standard nominal flow rate [l/min]	→ Page
<b>5/3-way valve ....F19, closed</b>					
	VSNC-F-P53C-MH-G14-F19	–	G1/4	VDI/VDE 3845 NAMUR	1250
	VSNC-F-P53C-MH-N14-F19		1/4 NPT		
	VSNC-F-P53C-M-G14-F19		G1/4		
	VSNC-F-P53C-M-N14-F19		1/4 NPT		
	VSNC-F-P53C-MH-G14-F19A	Intrinsically safe	G1/4		
	VSNC-F-P53C-MH-N14-F19A		1/4 NPT		
	VSNC-F-P53C-M-G14-F19A		G1/4		
VSNC-F-P53C-M-N14-F19A		1/4 NPT			
<b>5/3-way valve ....F19, pressurised</b>					
	VSNC-F-P53U-MH-G14-F19	–	G1/4	VDI/VDE 3845 NAMUR	950
	VSNC-F-P53U-MH-N14-F19		1/4 NPT		
	VSNC-F-P53U-M-G14-F19		G1/4		
	VSNC-F-P53U-M-N14-F19		1/4 NPT		
	VSNC-F-P53U-MH-G14-F19A	Intrinsically safe	G1/4		
	VSNC-F-P53U-MH-N14-F19A		1/4 NPT		
	VSNC-F-P53U-M-G14-F19A		G1/4		
VSNC-F-P53U-M-N14-F19A		1/4 NPT			
<b>5/3-way valve ....F19, exhausted</b>					
	VSNC-F-P53E-MH-G14-F19	–	G1/4	VDI/VDE 3845 NAMUR	1050
	VSNC-F-P53E-MH-N14-F19		1/4 NPT		
	VSNC-F-P53E-M-G14-F19		G1/4		
	VSNC-F-P53E-M-N14-F19		1/4 NPT		
	VSNC-F-P53E-MH-G14-F19A	Intrinsically safe	G1/4		
	VSNC-F-P53E-MH-N14-F19A		1/4 NPT		
	VSNC-F-P53E-M-G14-F19A		G1/4		
VSNC-F-P53E-M-N14-F19A		1/4 NPT			

Peripherals overview VSNC-...-F19/F19A



## Peripherals overview VSNC-...-F19/F19A

Mounting attachments and accessories		Brief description	→ Page / Internet
[1]	VSNC-...-F19/F19A Solenoid valves	3/2-way or 5/2-way valve -...-F19/F19A, convertible	65
[2]	VSNC-...-F19/F19A Solenoid valves	5/2-way valve -...-F19/F19A, double solenoid	69
[3]	VSNC-...-F19/F19A Solenoid valves	5/3-way valve -...-F19/F19A, closed, pressurised, exhausted	74
[4]	VACC-... Solenoid coil	Encapsulated solenoid coil with enhanced safety, Ex-me	88
[5]	VACC-... Solenoid coil	Type of ignition protection: intrinsically safe Ex-ia	88
[6]	VACN-... Solenoid coil	Degree of protection IP65 with socket	88
[7]	QS Push-in fitting	For connecting compressed air tubing with standard O.D.	90
[8]	U Silencers	–	90
[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	87
[10]	VABS-S7-S-G14 Connection set	Sub-base for attaching the valve to a NAMUR rib	79
[11]	VABF-B14-F1B1P2-FF14 Throttle plate (double-acting)	Flow control for double-acting quarter turn actuators	80
[12]	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	81
[13]	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	83
[14]	VABA-B14-FL12-FL14 Mounting plate	Mounting plate with NAMUR connection 1/2 and 1/4	85
[15]	VAME-S7-Y Mounting bracket	Alternative (instead of screw) for mounting the valve on a NAMUR rib using a mounting bracket	86
[16]	VABS-B14-T-F ... 14 Connector plate	Using the sub-base, it is possible to use the NAMUR valve as an inline valve with G1/4" and NPT1/4" thread.	79
[17]	VABF-B14-F1B1P1-FF14 Throttle plate (single-acting)	Flow control for single-acting quarter turn actuators	80
[18]	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	82
[19]	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	84

## Type codes

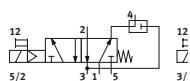
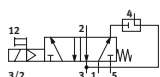
001	Series
VSNC	Solenoid valve VSNC
002	Directional control valve type
F	Flanged valve
003	Design principle
	Piston spool
T	Poppet valve
004	Additional function
	None
C	Convertible valve function
005	Valve function
B52	5/2-way valve, double solenoid/bistable
M52	5/2-way valve, single solenoid/monostable
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
007	Manual override
	None
D	Non-detenting, detenting
H	Non-detenting
S	Covered
008	Pneumatic connection
G14	G1/4
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
QN	With fitting
	No fitting
U1	Silencer with metallic housing
U3	Silencer with polymer housing
010	Valve pilot control interface
F8	With armature tube 8 mm, long
FN	With armature tube 9 mm
F19	Electric with armature tube for solenoid coil, 13 mm
F19A	Electric with armature tube for solenoid coil 13 mm, intrinsically safe
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 110V AC/50-60 Hz
27U	60 V DC and AC
013	Electrical connection
	None
A1	Plug pattern type A, to EN 175301-803
B2	Connection pattern type B, industry standard
C3	Cable, 3 m
K4	Cable connector metric
K11	Cable with insulating conduit connection
014	Degree of protection, electrical system
	Standard
S8	IP67
S11	IP66
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


## Datasheet – 3/2-way or 5/2-way valve ...-F8, convertible, single solenoid


Function<sup>1)</sup>

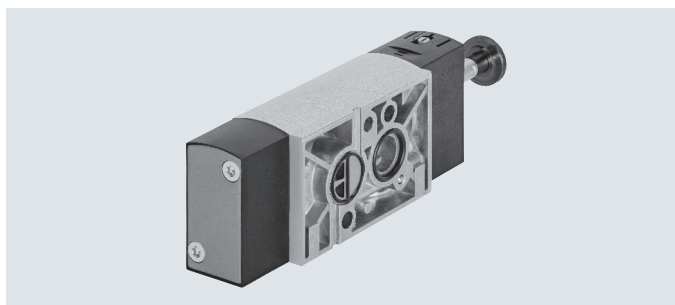
5/2-way valve

3/2-way valve  
with exhaust return

-  - Voltage  
24 V DC

-  - Operating pressure  
2.5 ... 10 bar

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



1) Can be changed by switching the seal plate

General technical data		VSNC-FC ... -G14-F8	VSNC-FC ... -G14-F8-1B2	VSNC-FC ... -G14-F8-1A1
		VSNC-FC ... -N14-F8		
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 function		Can be throttled		
Port for venting hole		Not ducted		
Pilot air supply		Internal		
Type of mounting		Via 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	G 1/4	G 1/4
Conforms to standard		Port pattern to NAMUR VDI/VDE 3845 NAMUR		
Certificate issuing authority		DNVGL-TAA000011]		
Product weight	[g]	335	390	335

## Datasheet – 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 <sup>1)</sup>		2		
Certification		-		c UL us - Recognized (OL)
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

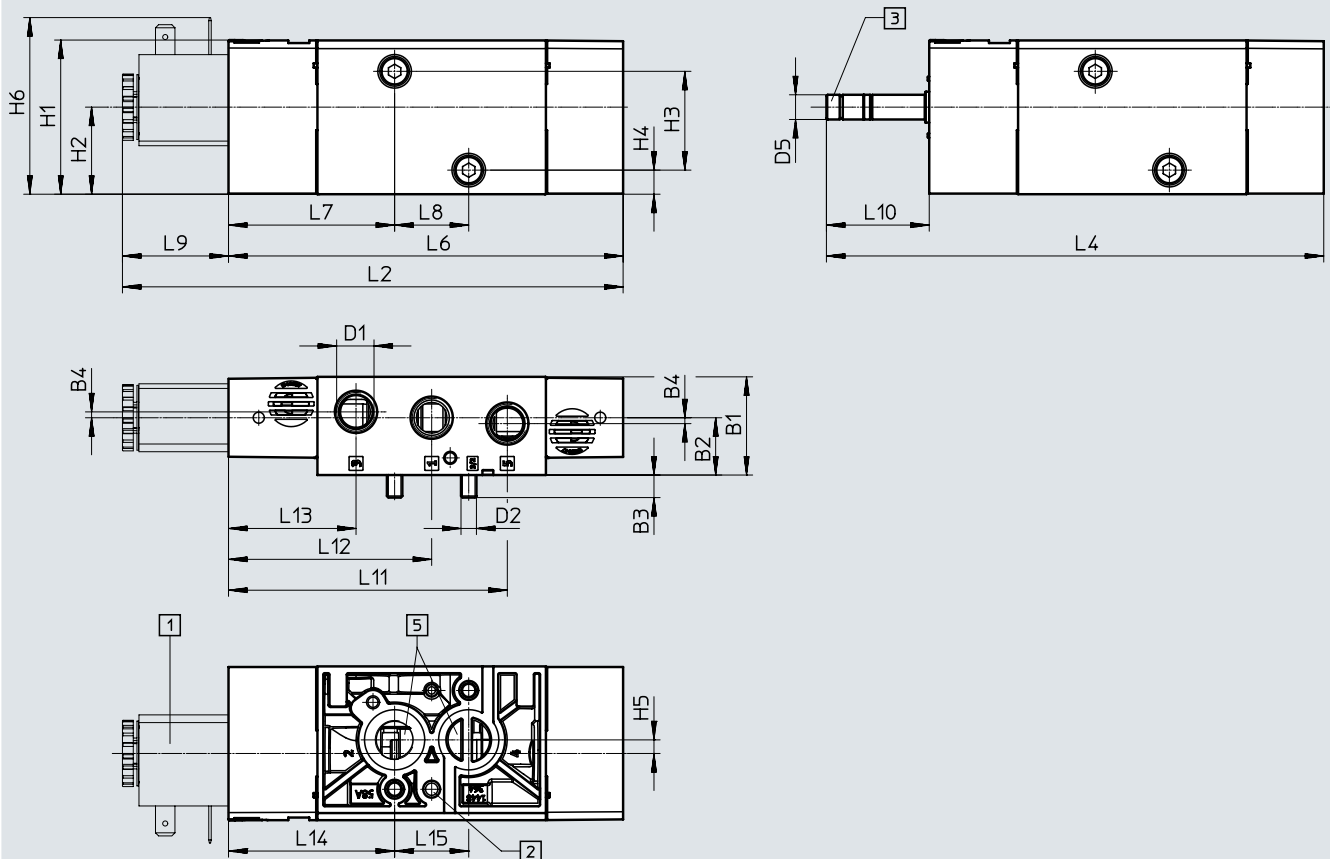
Electrical data		VSNC-FC- ... -G14-F8 VSNC-FC- ... -N14-F8	VSNC-FC- ... -G14-F8-1B2	VSNC-FC- ... -G14-F8-1A1
Electrical connection		-	3-pin plug, type B to industry standard (11 mm)	To EN 175301-803, type A
Characteristic coil data, 24 V DC	[W]	See solenoid coil, to be ordered separately	3.3	2.6
Permissible 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

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

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



VSNC-FC-M52-MD-G14-F8

- [1] Solenoid coil
- [2]  $\varnothing 5.5 \times 4$  (for threaded pin 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							

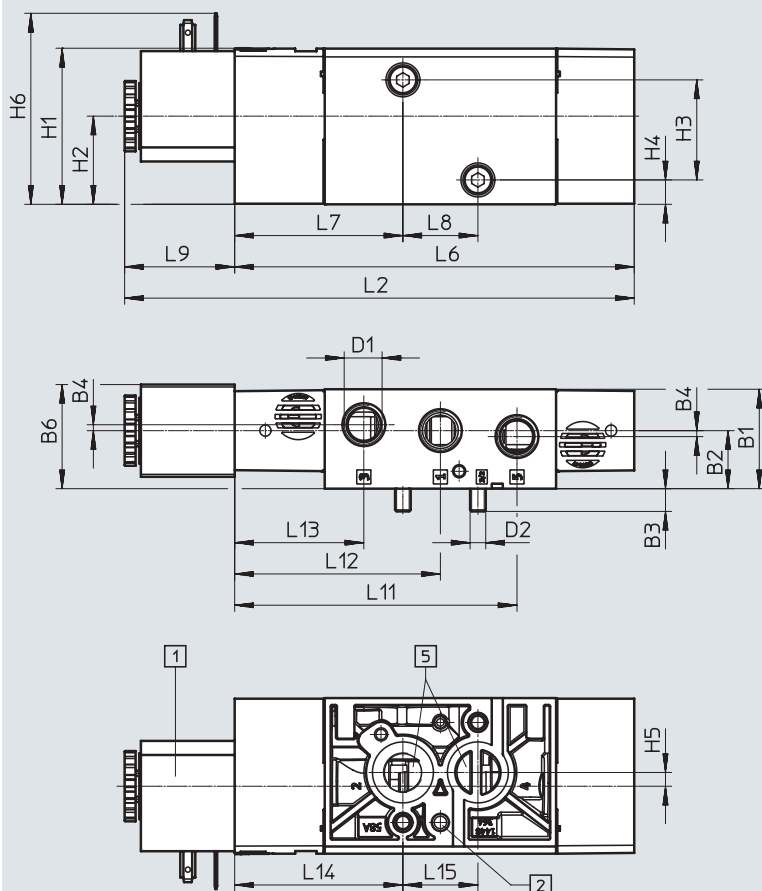
Type	L2	L4	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-F8	162.2	161.1	127.8	53.8	24	34.4	33.3	90.3	65.8	41.3	53.8	24
VSNC-FC-M52-MD-N14-F8												
VSNC-FC-M52-MD-G14-F8-1B2												

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

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

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



[1] Solenoid coil

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

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

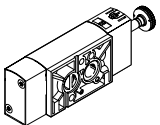
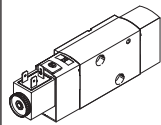
Type	B1	B2	B3	B4	B6	D1	D2	H1	H2	H3	H4	H5
VSNC-FC-M52-MD-G14-F8-1A1	31.8	18.6	7.3	1.9	33.3	G 1/4	M5	49.9	28.2	32	7.8	4.4

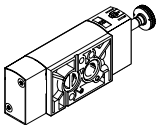
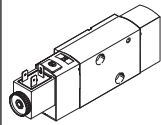
Type	H6	L2	L6	L7	L8	L9	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-F8-1A1	61.1	163	127.8	53.8	24	35.2	90.3	65.8	41.3	53.8	24



## Datasheet – 3/2-way or 5/2-way valve ...-F8, convertible, single solenoid

## ★ Core Range

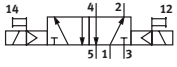
Ordering data – Valves			Ordering data – Valves		
Directional control valve without solenoid coil			Directional control valve with 24 V DC solenoid coil, without socket		
	Part no.	Type		Part no.	Type
	★ 577257	VSNC-FC-M52-MD-G14-F8		★ 577295	VSNC-FC-M52-MD-G14-F8-1B2

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

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

Function

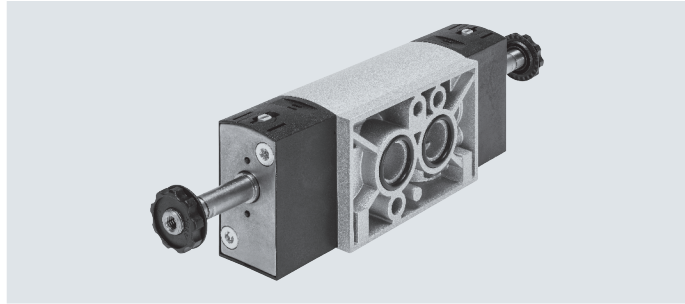
5/2-way valve



- - Voltage  
24 V DC

- - Operating pressure  
1.5 ... 10 bar

- - Temperature range  
-20 ... +60°C



General technical data

VSNC-F-B52-D-G14-F8	VSNC-F-B52-D-G14-F8-1B2
VSNC-F-B52-D-N14-F8	

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	Via 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 port	1, 3, 5	G 1/4, 1/4 NPT
	2, 4	Port pattern to NAMUR
Conforms to standard	VDI/VDE 3845 (NAMUR)	
Certificate issuing authority	DNVGL-TAA000011J	
Product weight	[g]	345
		455

## Datasheet – 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 <sup>1)</sup>		2	
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

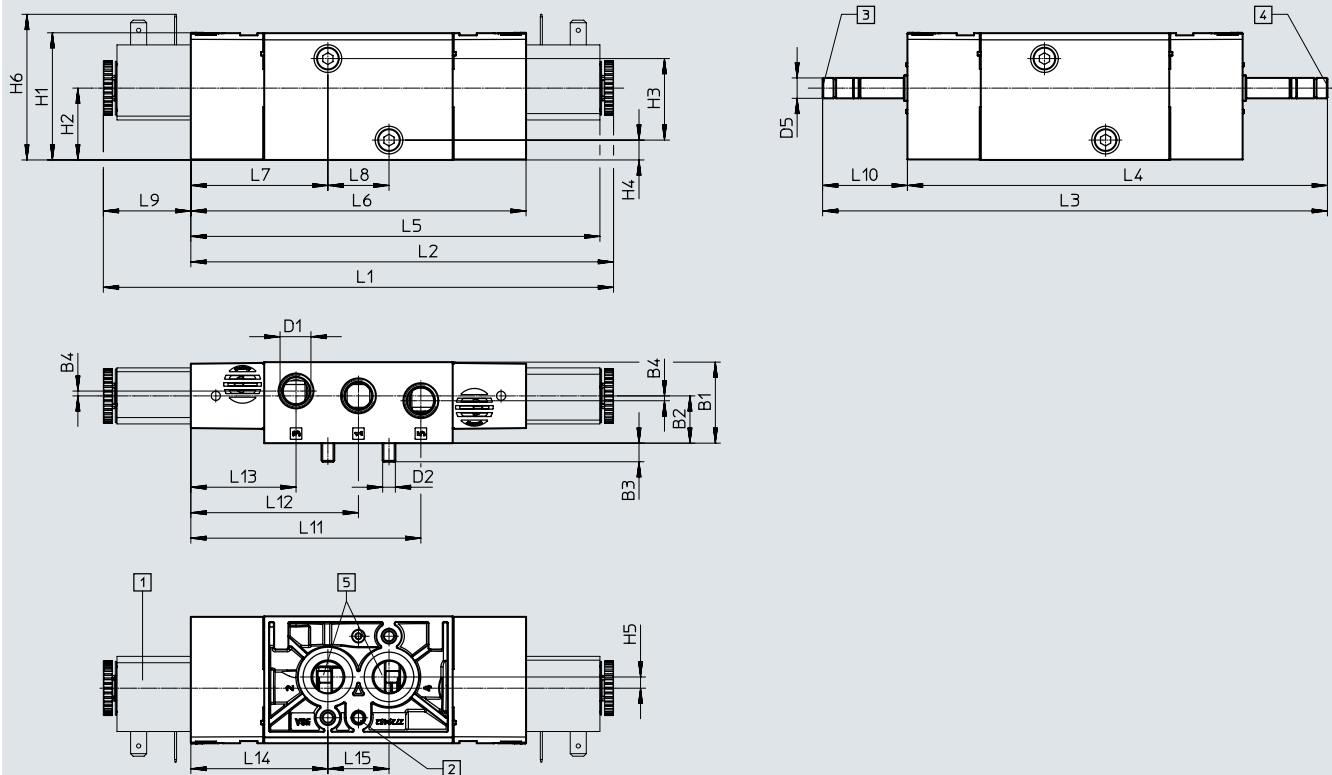
Electrical data		VSNC-F-B52-D-G14-F8 VSNC-F-B52-D-N14-F8	VSNC-F-B52-D-G14-F8-1B2
Electrical connection		–	3-pin plug, to industry standard (11 mm), type B
Characteristic coil data, 24 V DC	[W]	See solenoid coil, to be ordered separately	3.3
Permissible voltage fluctuations	[%]	–	±10
Degree of protection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

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

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

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

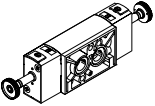
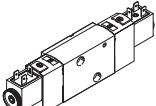


- [1] Solenoid coil
- [2]  $\varnothing$  5.5x4 (for threaded pin DIN 913-M5x10-45H)
- [3] Suction of auxiliary pilot air 82, M5
- [4] Suction of auxiliary pilot air 84, M5
- [5] Working port 2 and 4, NAMUR port pattern

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								

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				166				34.4						
VSNC-F-B52-D-G14-F8-1B2				160.6										

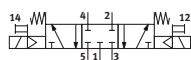
Ordering data – Valves

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

## Datasheet – 5/3-way valve ...-F8

### Function

5/3-way valve, closed




5/3-way valve, exhausted

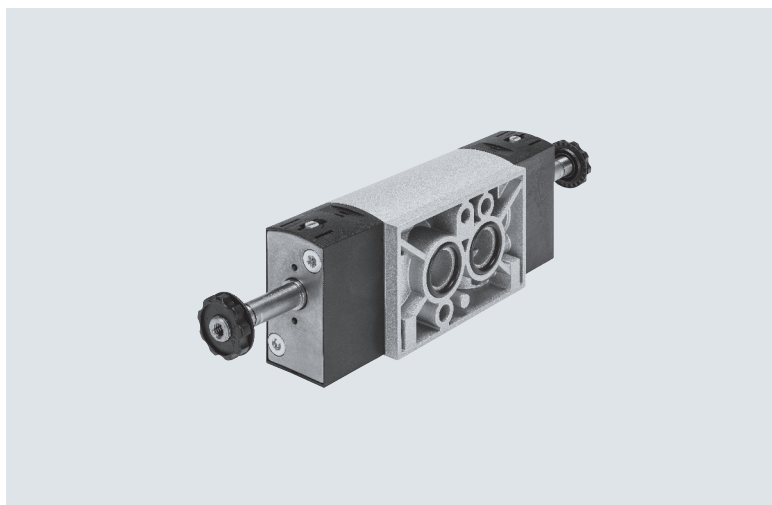


5/3-way valve, pressurised



 Operating pressure  
3 ... 10 bar

 Temperature range  
-20 ... +60°C



General technical data		VSNC-F-P53C-MD-G14-F8	VSNC-F-P53E-MD-G14-F8	VSNC-F-P53U-MD-G14-F8
		VSNC-F-P53C-MD-N14-F8	VSNC-F-P53E-MD-N14-F8	VSNC-F-P53U-MD-N14-F8
Valve function		5/3-way, closed	5/3-way, exhausted	5/3-way, pressurised
Width	[mm]	32		
Nominal width	[mm]	7.2	6	6
Design		Piston spool		
Sealing principle		Soft		
Actuation type		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Manual override		Non-detenting, non-detenting		
Type of mounting		Via 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 port	1, 3, 5	G 1/4, 1/4 NPT		
	2, 4	Port pattern to NAMUR		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011J		
Product weight	[g]	345		

## Datasheet – 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 <sup>1)</sup>		2		
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

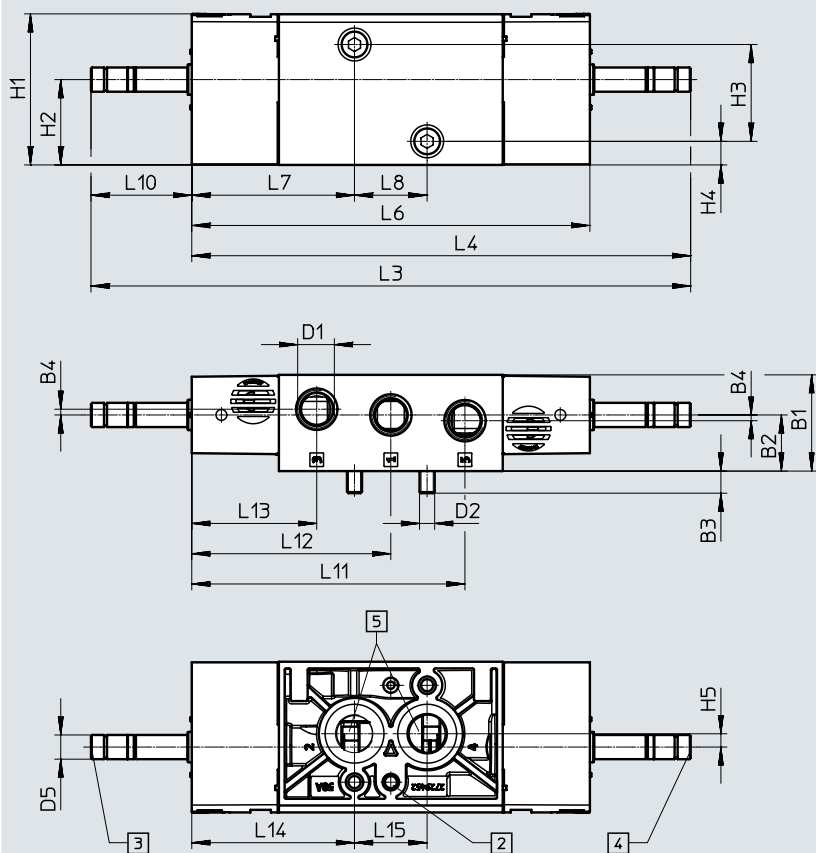
Electrical data		VSNC-F-P53C-MD-G14-F8 VSNC-F-P53C-MD-N14-F8	VSNC-F-P53E-MD-G14-F8 VSNC-F-P53E-MD-N14-F8	VSNC-F-P53U-MD-G14-F8 VSNC-F-P53U-MD-N14-F8
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	13	14	14
Switching time off	[ms]	42	48	48
Switching time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

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

Datasheet – 5/3-way valve ...-F8

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



- [2]  $\varnothing$  5.5x4 (for threaded pin 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

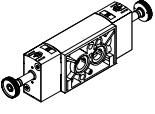
Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5
VSNC-F-P53C-MD-G14-F8	31.8	18.6	7.3	1.9	G 1/4	M5	49.9	28.2	32	7.8	4.4
VSNC-F-P53U-MD-G14-F8											
VSNC-F-P53E-MD-G14-F8											
VSNC-F-P53C-MD-N14-F8											
VSNC-F-P53U-MD-N14-F8											
VSNC-F-P53E-MD-N14-F8											

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											

## Datasheet – 5/3-way valve ...-F8

## Ordering data – Valves

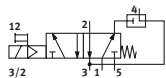
Directional control valve without solenoid coil

	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

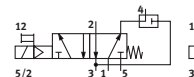



## Datasheet – 3/2-way or 5/2-way valve VSNC-F...FN, convertible, single solenoid

Convertible function  
3/2-way valve or

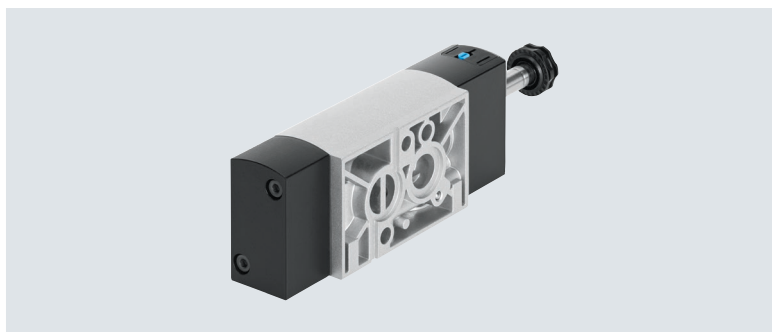


5/2-way valve



 Operating pressure  
2.5 ... 8 bar

 Temperature range  
-20 ... +60°C



General technical data		VSNC- ... -G14-FN	VSNC- ... -G14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G
		VSNC- ... -MD-N14-FN	VSNC- ... -N14-FN-1A1-EX4-A	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 function		Can be throttled		
Manual override		Detenting, non-detenting		
Type of mounting		Via 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	Port pattern to NAMUR		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA00011]		
Product weight	[g]	415		

Operating and environmental conditions		VSNC- ... -G14-FN	VSNC- ... -G14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G
		VSNC- ... -N14-FN	VSNC- ... -N14-FN-1A1-EX4-A	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 <sup>1)</sup>		2		
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

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

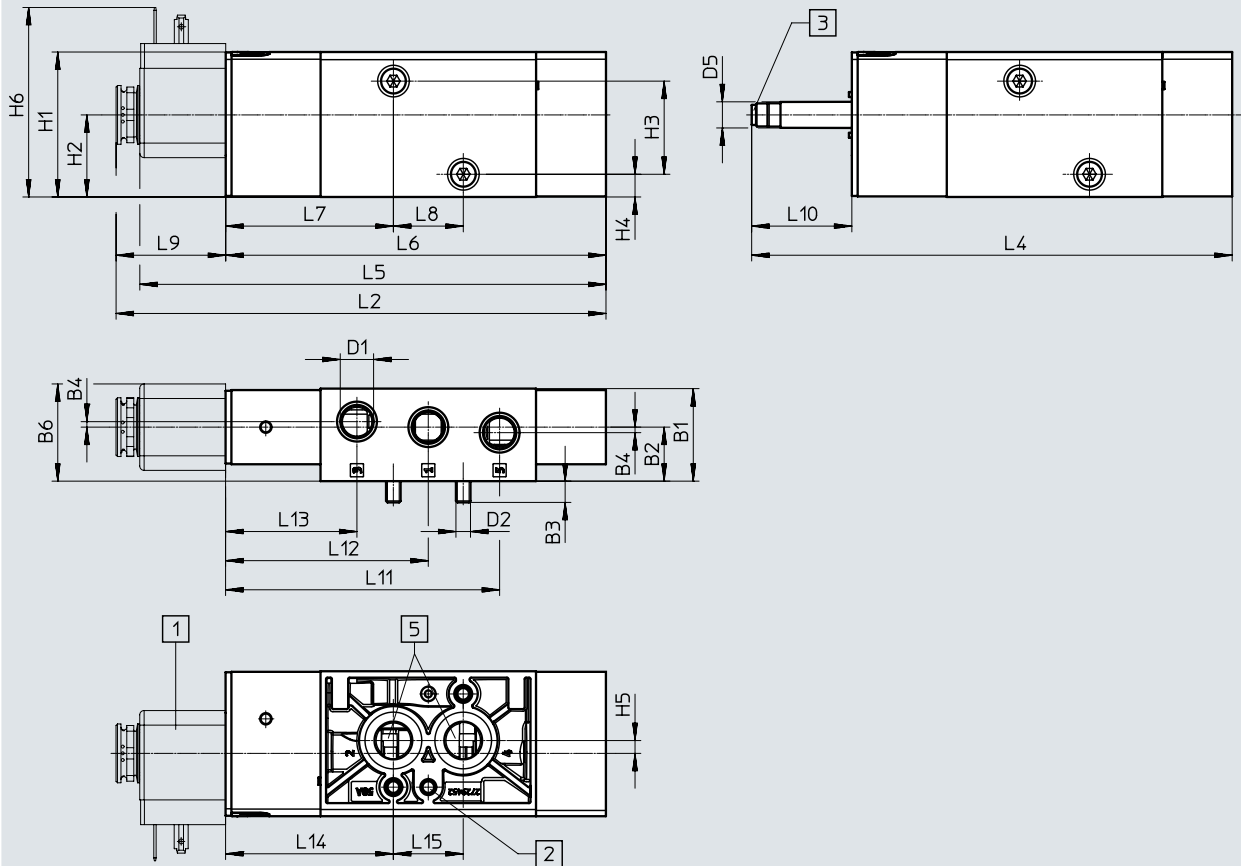
ATEX	VSNC- ... -G14-FN	VSNC- ... -G14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G
	VSNC- ... -N14-FN	VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-3AA1+G
ATEX category for gas	–	II 2G	–
Type of ignition protection for gas	–	Ex ia IIC T6 Ga	–
ATEX category for dust	–	II 2D	–
Type of ignition protection for dust	–	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- ... -G14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G
	VSNC- ... -N14-FN	VSNC- ... -N14-FN-1A1-EX4-A	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- ... -G14-FN-1A1-EX4-A	VSNC- ... -G14-FN-1A1+G
	VSNC- ... -N14-FN	VSNC- ... -N14-FN-1A1-EX4-A	VSNC- ... -G14-FN-3AA1+G
[1] Housing	Wrought aluminium alloy		–
[2] Seals	NBR		–
[3] Screws	High-alloy stainless steel		–
–	RoHS-compliant		–

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

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

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

[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-FC-M52-MD-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	–
VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A														65.1
VSNC-FC-M52-MD-N14-FN						–								
VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A						65.1								

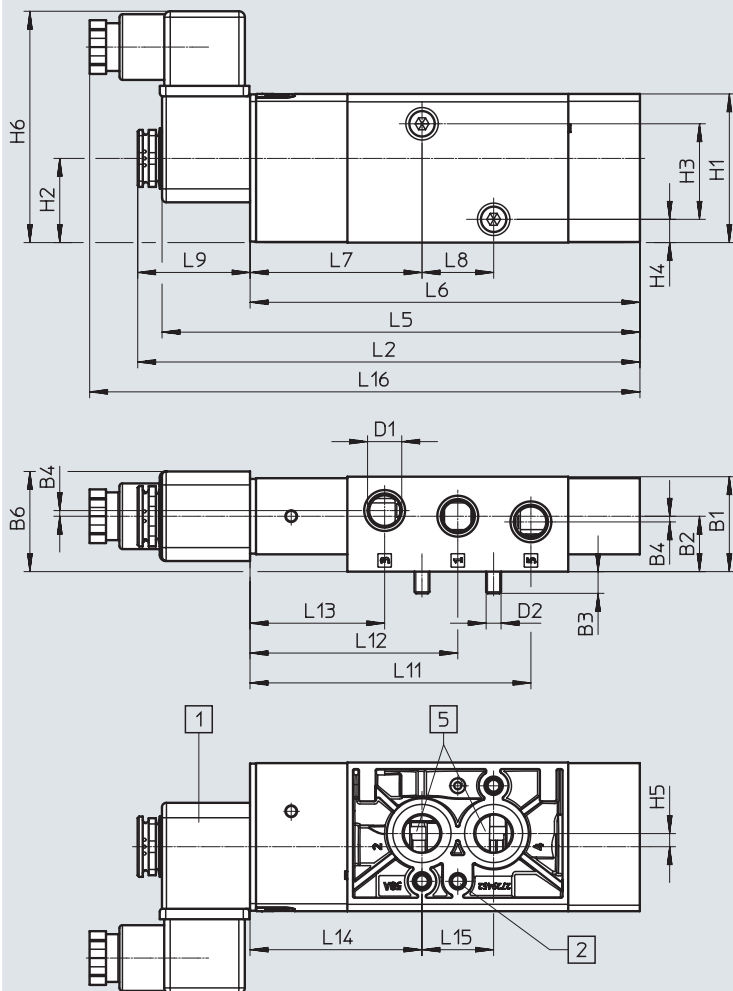
Type	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-FC-M52-MD-G14-FN	–	165	–	130.6	57.6	24	–	34.4	94.1	69.6	45.1	57.6	24
VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A	168.3		160.1				37.7						
VSNC-FC-M52-MD-N14-FN	–		–				–						
VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A	168.3		160.1				37.7						

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

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

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



[1] Connector socket M16

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

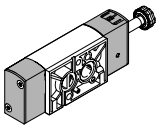
[5] Working port 2 and 4, NAMUR port  
pattern

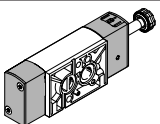
Type	B1	B2	B3	B4	B6	D1	D2	H1	H2	H3	H4	H5	H6
VSNC-FC-M52-MD-G14-FN- ... +G	31.8	18.6	7.3	1.9	33.3	G 1/4	M5	49.8	28.2	32	7.8	4.4	77.5

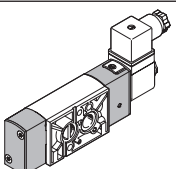
Type	L2	L5	L6	L7	L8	L9	L11	L12	L13	L14	L15	L16
VSNC-FC-M52-MD-G14-FN- ... +G	168.3	160.1	130.6	57.6	24	37.7	94.1	69.6	45.1	57.6	24	184.4

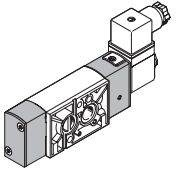
## Datasheet – 3/2-way or 5/2-way valve VSNC-F...-FN, convertible, single solenoid

## ★ Core Range

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

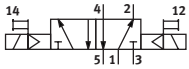
Ordering data – Valves		
Directional control valve without solenoid coil		
	Part no.	Type
	577272	VSNC-FC-M52-MD-N14-FN

Directional control valve with solenoid coil and socket		
	Part no.	Type
	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		
	Part no.	Type
	577281	VSNC-FC-M52-MD-G14-FN-1A1-Ex4-A
	577286	VSNC-FC-M52-MD-N14-FN-1A1-Ex4-A

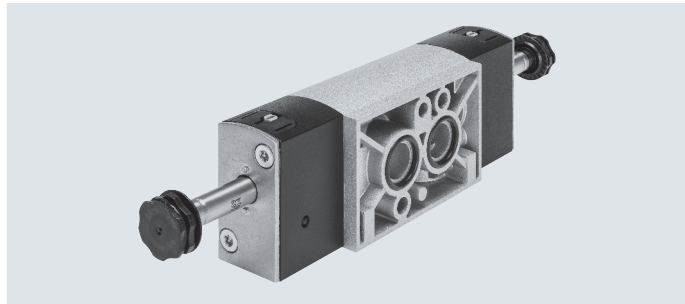
Datasheet – 5/2-way valve VSNC-F...-FN, double solenoid

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-G14-FN-1A1-EX4-A
		VSNC-F-B52-D-N14-FN	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 function		Can be throttled	
Manual override		Non-detenting, detenting	
Type of mounting		Via 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 port	1, 3, 5 2, 4	G 1/4, 1/4 NPT Port pattern to NAMUR	
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-G14-FN-1A1-EX4-A
		VSNC-F-B52-D-N14-FN	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 <sup>1)</sup>		2	
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

## Datasheet – 5/2-way valve VSNC-F...-FN, double solenoid

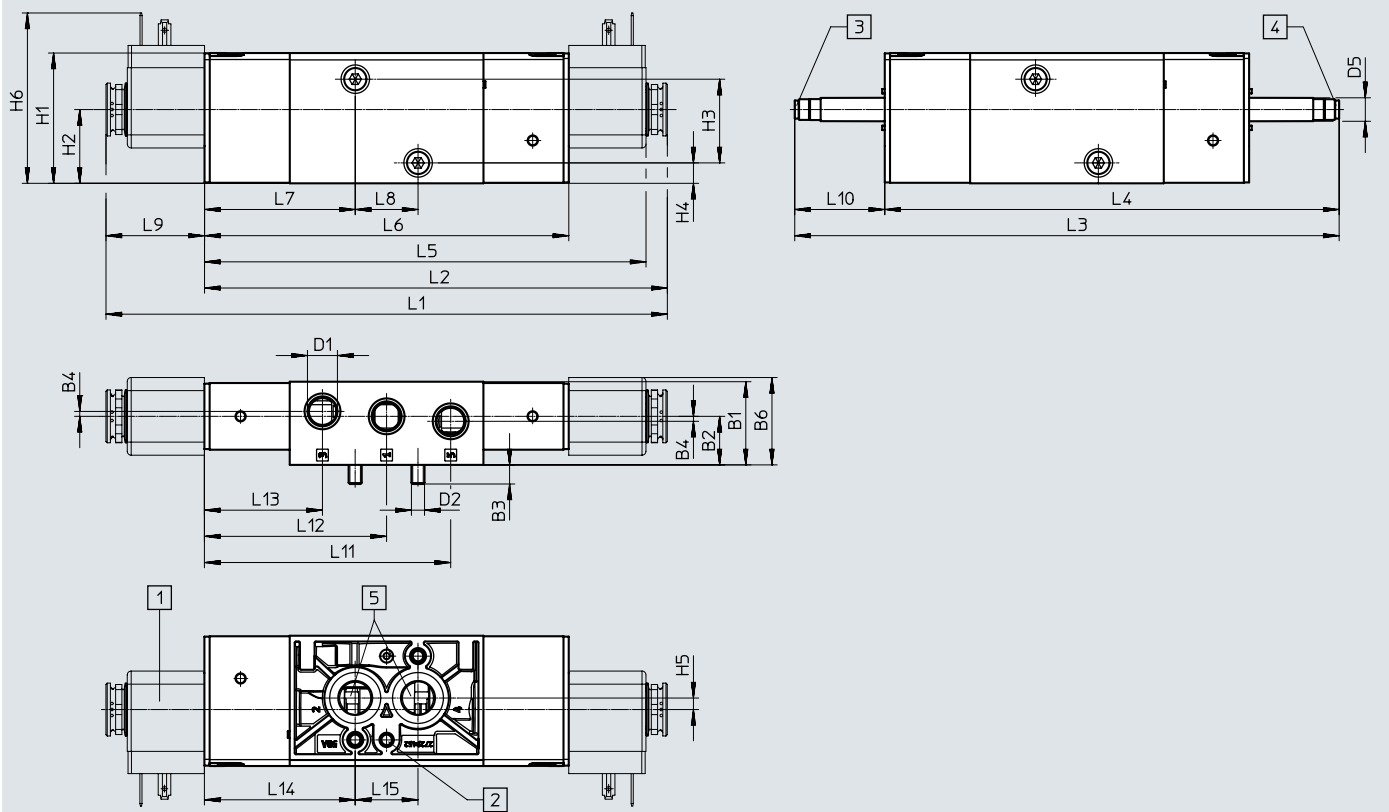
ATEX	VSNC-F-B52-D-G14-FN	VSNC-F-B52-D-G14-FN-1A1-Ex4-A
	VSNC-F-B52-D-N14-FN	VSNC-F-B52-D-N14-FN-1A1-Ex4-A
ATEX category for gas	–	II 2G
Type of ignition protection for gas	–	Ex ia IIC T6 Ga
ATEX category for dust	–	II 2D
Type of ignition protection for dust	–	Ex t IIIC T80°C Db
Explosion protection certification 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-G14-FN-1A1-Ex4-A
	VSNC-F-B52-D-N14-FN	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

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

Dimensions Download CAD data → [www.festo.com](http://www.festo.com)



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

- [1] Solenoid coil
- [2]  $\varnothing$  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 ∅	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						65.1								214.5	
VSNC-F-B52-D-N14-FN						-								-	
VSNC-F-B52-D-N14-FN-1A1-Ex4-A						65.1								214.5	

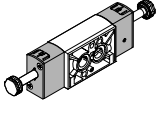
Type	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
VSNC-F-B52-D-G14-FN	-	208	173.6	-	139.2	57.6	24	-	34.4	94.1	69.6	45.1	57.6	24
VSNC-F-B52-D-G14-FN-1A1-Ex4-A	176.9			168.7				37.7						
VSNC-F-B52-D-N14-FN	-			-				-						
VSNC-F-B52-D-N14-FN-1A1-Ex4-A	176.9			168.7				37.7						



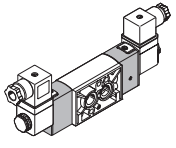
## Datasheet – 5/2-way valve VSNC-F...-FN, double solenoid

## 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

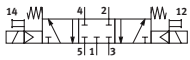
## Directional control valve with Ex-i solenoid coil including socket

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

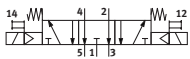
## Datasheet – 5/3-way valve VSNC-F...-FN

**Function**

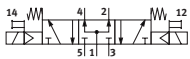
5/3-way valve, closed




5/3-way valve, exhausted

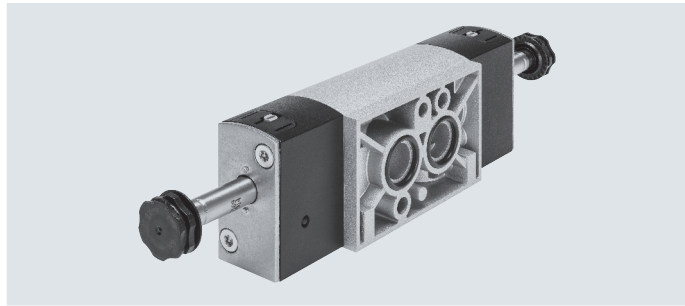


5/3-way valve, pressurised



 Operating pressure  
3 ... 8 bar

 Temperature range  
-20 ... +60°C



**General technical data**

	VSNC-F-P53C-MD-G14-FN VSNC-F-P53C-MD-N14-FN	VSNC-F-P53U-MD-G14-FN VSNC-F-P53U-MD-N14-FN	VSNC-F-P53E-MD-G14-FN VSNC-F-P53E-MD-N14-FN
Valve function	5/3		
	Closed	Pressurised	Exhausted
Width [mm]	32		
Design	Piston spool		
Sealing principle	Soft		
Actuation type	Electrical		
Reset method	Mechanical spring		
Type of control	Piloted		
Pilot air supply	Internal		
Exhaust function	Can be throttled		
Manual override	Non-detenting, detenting		
Type of mounting	Via 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 port	G 1/4, 1/4 NPT		
	Port pattern to NAMUR		
Conforms to standard	VDI/VDE 3845 (NAMUR)		
Certificate issuing authority	DNVGL-TAA000011		
Product weight [g]	461		

## Datasheet – 5/3-way valve VSNC-F...-FN

Operating and environmental conditions		VSNC-F-P53C-MD-G14-FN	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
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 <sup>1)</sup>		2		
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

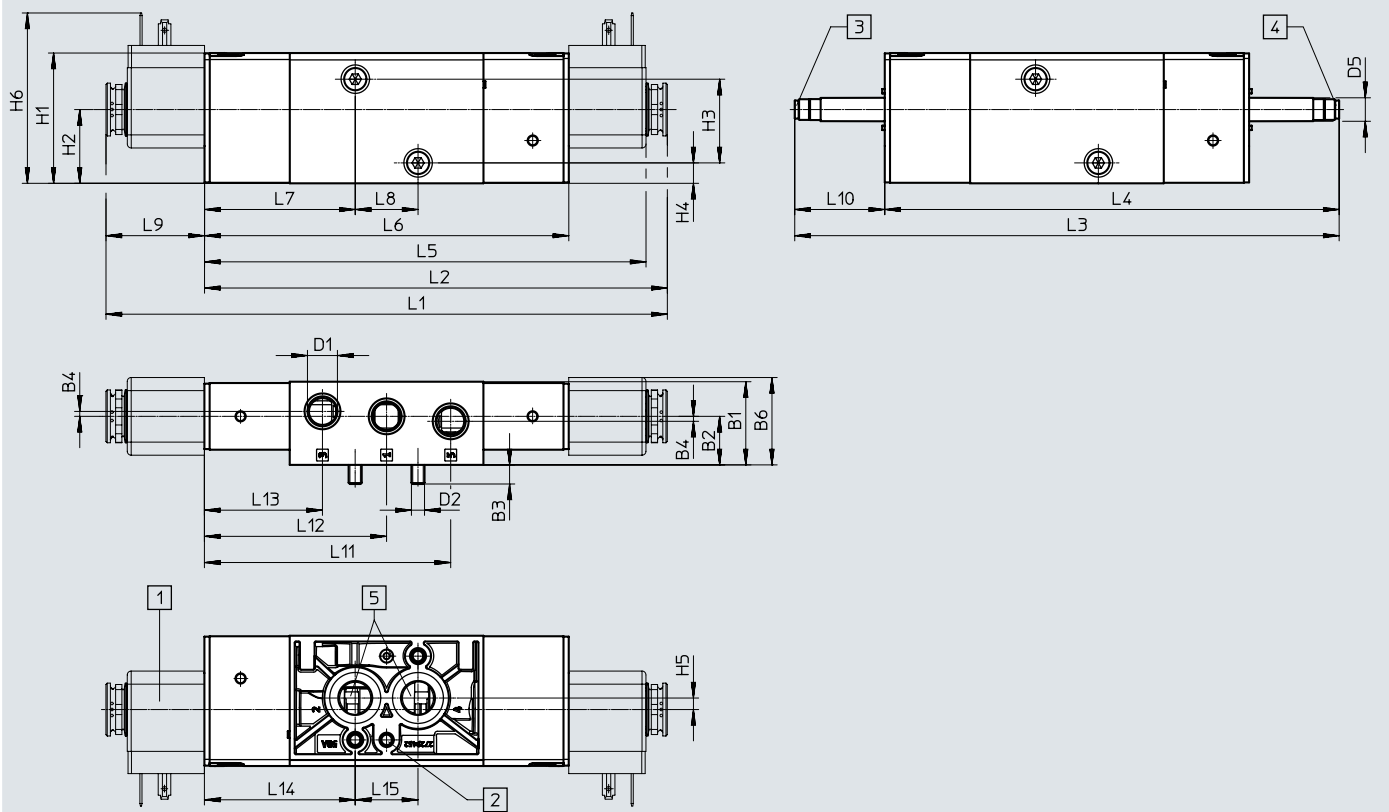
Electrical data		VSNC-F-P53C-MD-G14-FN	VSNC-F-P53U-MD-G14-FN	VSNC-F-P53E-MD-G14-FN
		VSNC-F-P53C-MD-N14-FN	VSNC-F-P53U-MD-N14-FN	VSNC-F-P53E-MD-N14-FN
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	23		
Switching time off	[ms]	103		
Switching time changeover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

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

Datasheet – 5/3-way valve VSNC-F...-FN

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



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

- [1] Solenoid coil
- [2]  $\varnothing$  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

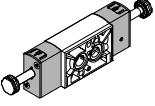
Type	B1	B2	B3	B4	B6	D1	D2	D5 $\varnothing$	H1	H2	H3	H4	H5	H6	L1
VSNC-F-P53C-MD-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	-	-
VSNC-F-P53U-MD-G14-FN															
VSNC-F-P53E-MD-G14-FN															
VSNC-F-P53C-MD-N14-FN						1/4 NPT									
VSNC-F-P53U-MD-N14-FN															
VSNC-F-P53E-MD-N14-FN															

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														

## Datasheet – 5/3-way valve VSNC-F...-FN

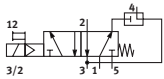
## Ordering data – Valves

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

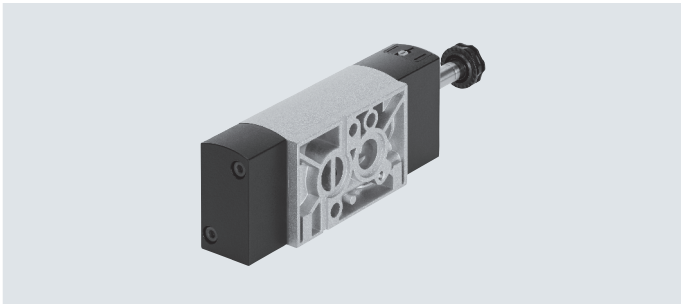
Datasheet – 3/2-way or 5/2-way valve VSNC-FT...-FN, convertible, single solenoid

Convertible function  
3/2-way valve or

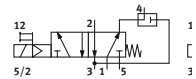


Operating pressure  
2.5 ... 8 bar

Temperature range  
-20 ... +60°C



5/2-way valve



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 function		Can be throttled	
Manual override		Non-detenting, detenting	
Type of mounting		Via through-hole	
Port for venting hole		Not ducted	
Mounting position		Any	
Non-overlapping		No	
Direction of flow		Not 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 port	1, 3, 5		G1/4
	2, 4		Port pattern to NAMUR
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011J	
Degree of protection			IP65, IP67
Product weight	[g]	404	440

## Datasheet – 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 <sup>1)</sup>		2
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

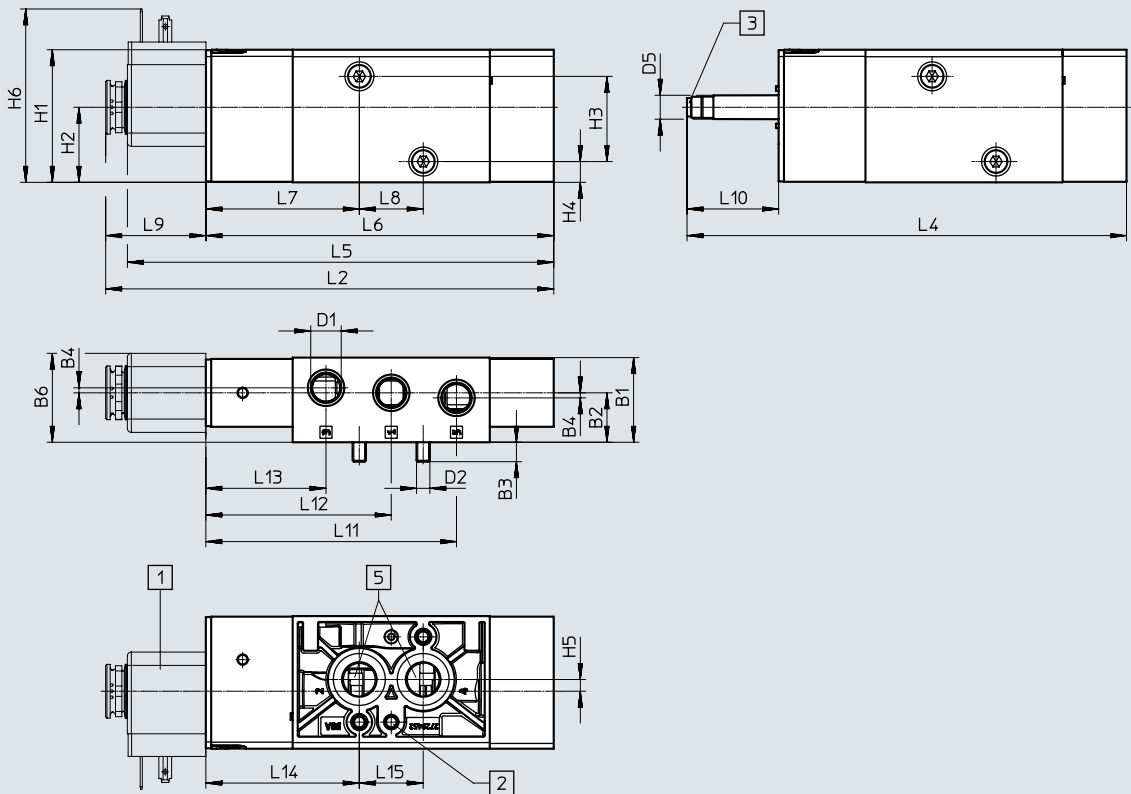
Electrical data	VSNC-FTC-M52-MD-G14-FN VSNC-FTC-M52-MD-N14-FN		VSNC-FTC-M52-MD-G14-FN-1A1
	Electrical connection	-	
Characteristic coil data, 24 V DC	[W]	See solenoid coil, to be ordered separately	0.7
Switching time on	[ms]	16	16
Switching time off	[ms]	120	120
Permissible voltage fluctuations	[%]	-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

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

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

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



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

- [1] Solenoid coil
- [2]  $\varnothing$  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 ∅	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

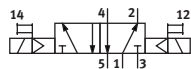
	577297	VSNC-FTC-M52-MD-G14-FN-1A1
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## Datasheet – 5/2-way valve VSNC-FT...-FN, double solenoid

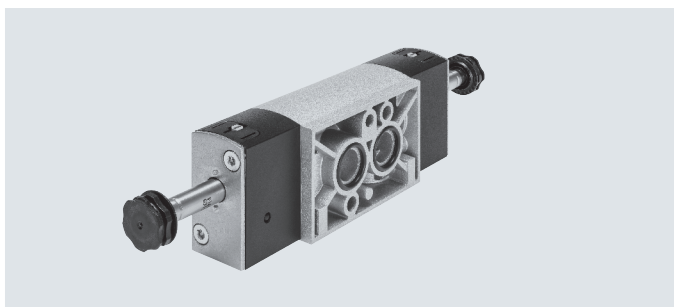
## Function

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-G14-FN-1A1
		VSNC-FT-B52-D-N14-FN	
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 function		Can be throttled	
Manual override		Non-detenting, detenting	
Type of mounting		Via through-hole	
Port for venting hole		Not ducted	
Mounting position		Any	
Non-overlapping		No	
Direction of flow		Not reversible	
Standard nominal flow rate	[l/min]	1000	
b value		0.24	
C value	[l/sbar]	4.6	
Pneumatic port	1, 3, 5	G 1/4, 1/4 NPT	
	2, 4	Port pattern to NAMUR	
Conforms to standard		VDI/VDE 3845 (NAMUR)	
Certificate issuing authority		DNVGL-TAA000011J	
Degree of protection		-	IP65, IP67
Product weight	[g]	519	670

## Datasheet – 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 <sup>1)</sup>		2
Maritime classification <sup>2)</sup>		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: [www.festo.com/sp](http://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	16
Permissible voltage fluctuations	[%]	–	±10

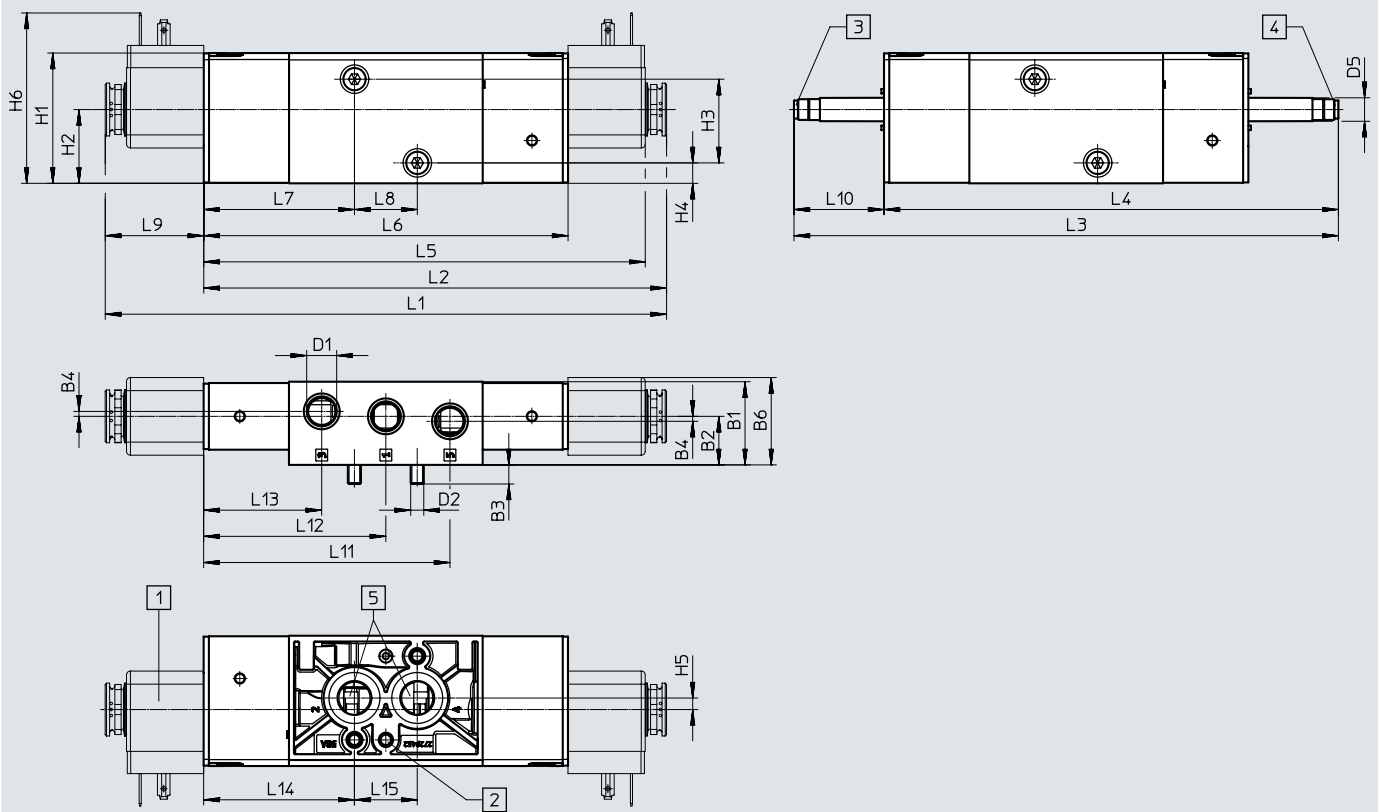
**Materials**

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

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

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



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

- [1] Solenoid coil
- [2]  $\varnothing$  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

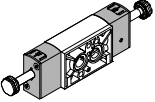
Type	B1	B2	B3	B4	B6	D1	D2	D5 $\varnothing$	H1	H2	H3	H4	H5	H6	L1
VSNC-FT-B52-D-G14-FN	31.8	18.6	7.3	1.9	33.4	G 1/4	M5	9	49.8	28.2	32	7.8	4.4	-	-
VSNC-FT-B52-D-G14-FN-1A1						1/4 NPT									
VSNC-FT-B52-D-N14-FN															

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														

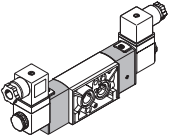
Datasheet – 5/2-way valve VSNC-FT...-FN, double solenoid

**Ordering data – Valves**

Directional control valve without solenoid coil

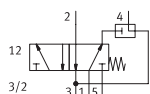
	Part no.	Type
	577278	VSNC-FT-B52-D-G14-FN
	577280	VSNC-FT-B52-D-N14-FN

**Directional control valve with solenoid coil**

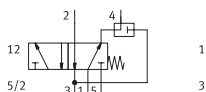
	577298	VSNC-FT-B52-D-G14-FN-1A1
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## Datasheet – 3/2-way or 5/2-way valve VSNC-FT...-P2, convertible, single solenoid

Convertible function  
3/2-way valve or

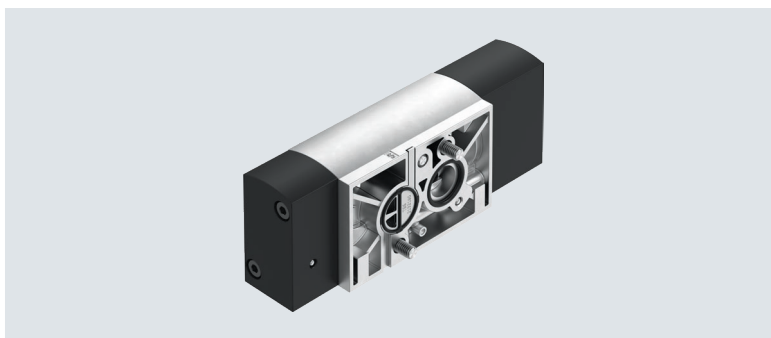


5/2-way valve



 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 function		Can be throttled
Manual override		None
Type of mounting		Via through-hole
Port for venting hole		Not ducted
Mounting position		Any
Overlap		Negative overlap
Direction of flow		Not 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	Port pattern to NAMUR
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 <sup>1)</sup>		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.

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

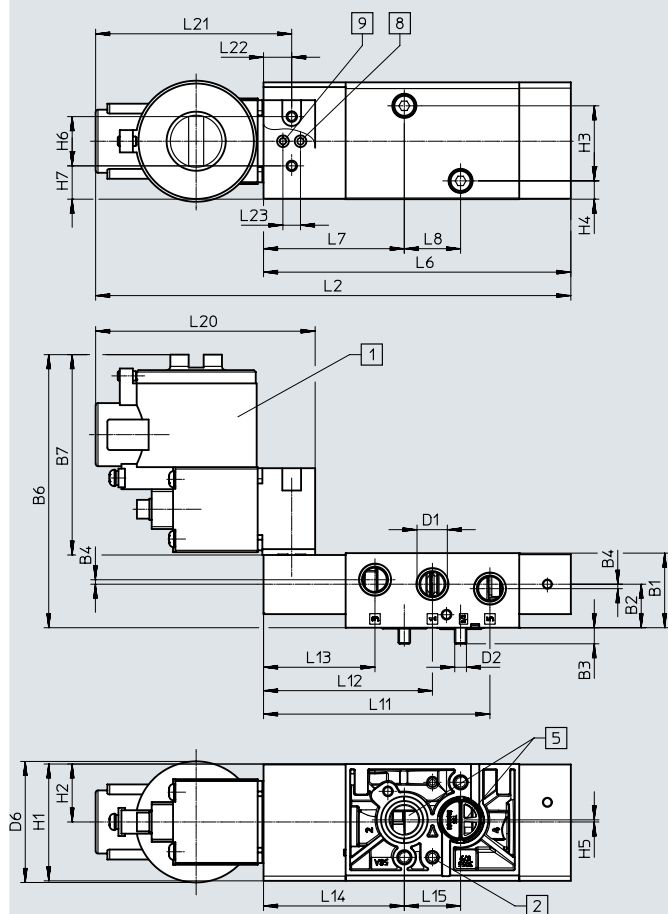
<b>Electrical data</b>		VSNC-FTC-M52-M-G14-P2 VSNC-FTC-M52-M-N14-P2
Characteristic coil data		See solenoid coil, to be ordered separately
Duty cycle	[%]	100
Switching time on	[ms]	4
Switching time off	[ms]	6
Switching time changeover	[ms]	–

<b>Materials</b>		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

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

Dimensions

Download CAD data → [www.festo.com](http://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								

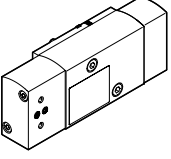
Type	L6	L7	L8	L11	L12	L13	L14	L15	L22	L23
VSNC-FTC-M52-M-G14-P2	131	60	24	96.5	72	47.5	60	24	22	7.5
VSNC-FTC-M52-M-N14-P2										

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

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

**Ordering data – Valves**

Directional control valve without solenoid coil

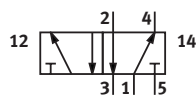
	Part no.	Type
	8114688	VSNC-FTC-M52-M-G14-P2
	8114698	VSNC-FTC-M52-M-N14-P2




## Datasheet – 5/2-way valve VSNC-FT...-P2, double solenoid

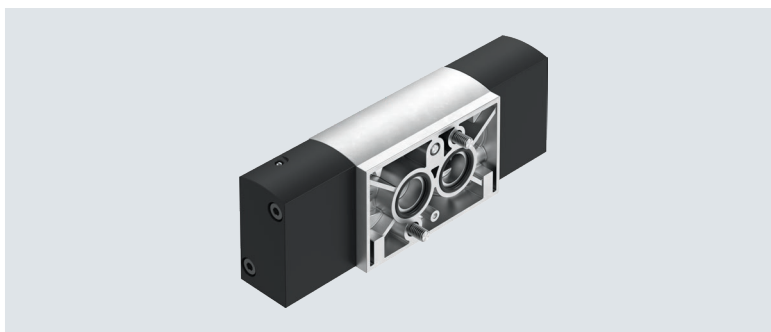
### Function

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 function		Can be throttled
Manual override		None
Type of mounting		Via through-hole
Port for venting hole		Not ducted
Mounting position		Any
Overlap		Negative overlap
Direction of flow		Not reversible
Standard nominal flow rate	[l/min]	1000
b value		–
C value	[l/sbar]	–
Pneumatic port	1, 3, 5 2, 4	G 1/4, 1/4 NPT Port pattern to NAMUR
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 <sup>1)</sup>		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.

## Datasheet – 5/2-way valve VSNC-FT...-P2, double solenoid

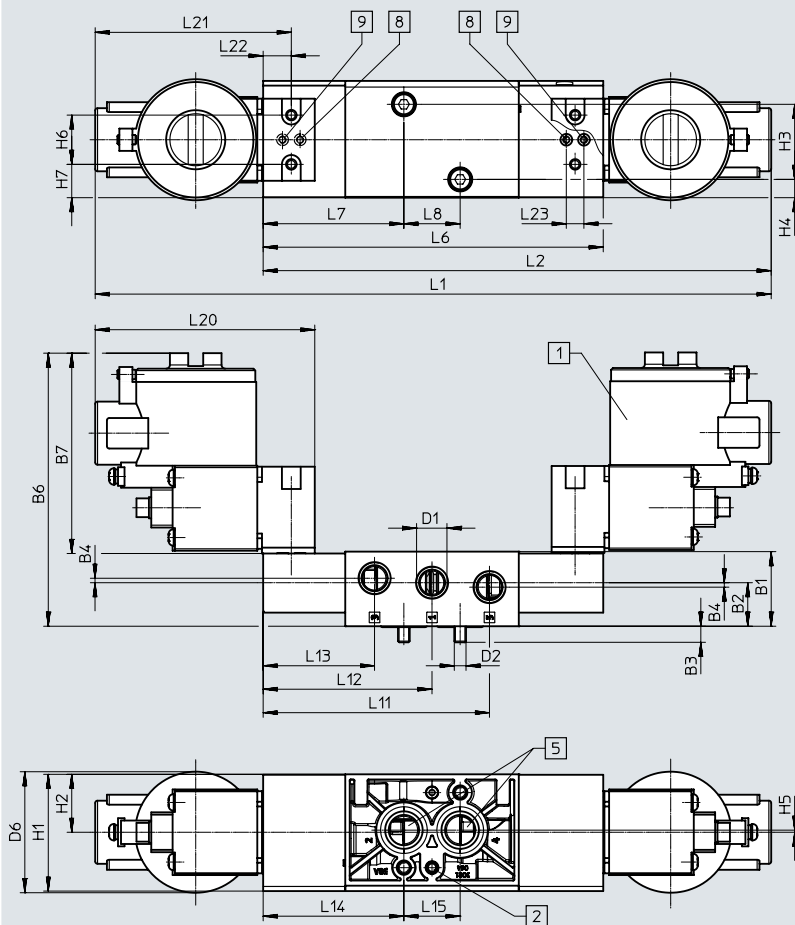
Electrical data		
		VSNC-FT-B52-G14-P2 VSNC-FT-B52-N14-P2
Electrical connection		–
Characteristic coil data		See solenoid coil, to be ordered separately
Switching time changeover	[ms]	2
Permissible voltage fluctuations	[%]	–

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

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

Dimensions

Download CAD data → [www.festo.com](http://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								

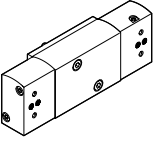
Type	L6	L7	L8	L11	L12	L13	L14	L15	L22	L23
VSNC-FT-B52-G14-P2	145	60	24	96.5	72	47.5	60	24	22	7.5
VSNC-FT-B52-N14-P2										

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

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

Ordering data – Valves

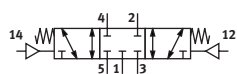
Directional control valve without solenoid coil

	Part no.	Type
	8114687	VSNC-FT-B52-G14-P2
	8114699	VSNC-FT-B52-N14-P2

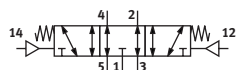
## Datasheet – 5/3-way valve VSNC-F...-P2

## Function

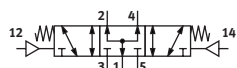
5/3-way valve, closed




5/3-way valve, exhausted

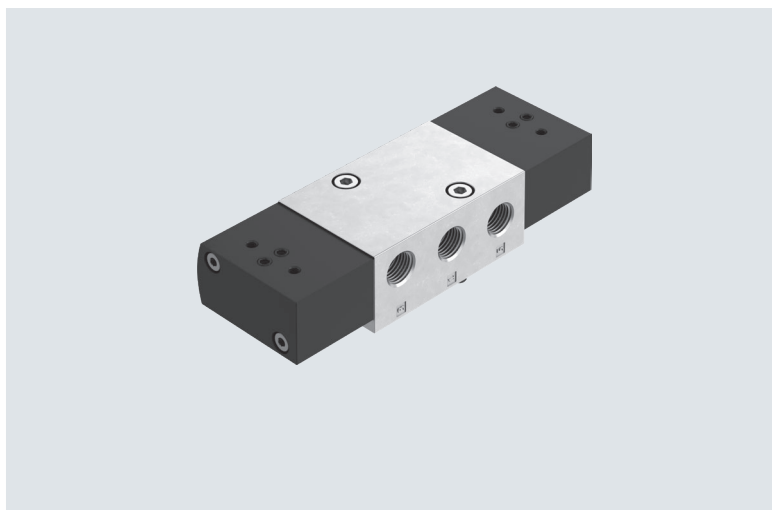


5/3-way valve, pressurised



 - Operating pressure  
3 ... 8 bar

 - Temperature range  
-20 ... +60°C



General technical data		VSNC-F-P53C-M-G14-P2	VSNC-F-P53E-M-G14-P2	VSNC-F-P53U-M-G14-P2
		VSNC-F-P53C-M-N14-P2	VSNC-F-P53E-M-N14-P2	VSNC-F-P53U-M-N14-P2
Valve function		5/3-way, closed	5/3-way, exhausted	5/3-way, pressurised
Width	[mm]	32		
Nominal width	[mm]	7.2	6	6
Design		Piston spool		
Sealing principle		Soft		
Actuation type		Electrical		
Reset method		Mechanical spring		
Type of control		Piloted		
Manual override		None		
Exhaust function		Can be throttled		
Port for venting hole		Not ducted		
Pilot air supply		Internal		
Type of mounting		Via through-hole		
Mounting position		Any		
Max. tightening torque for valve mounting	[Nm]	3.5		
Non-overlapping		Yes		
Overlap		Positive overlap		
Direction of flow		Not 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 port	1, 3, 5	G 1/4, 1/4 NPT		
	2, 4	Port pattern to NAMUR		
Conforms to standard		VDI/VDE 3845 (NAMUR)		
Certificate issuing authority		DNVGL-TAA000011J		
Product weight	[g]	428		

## Datasheet – 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 <sup>1)</sup>		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.

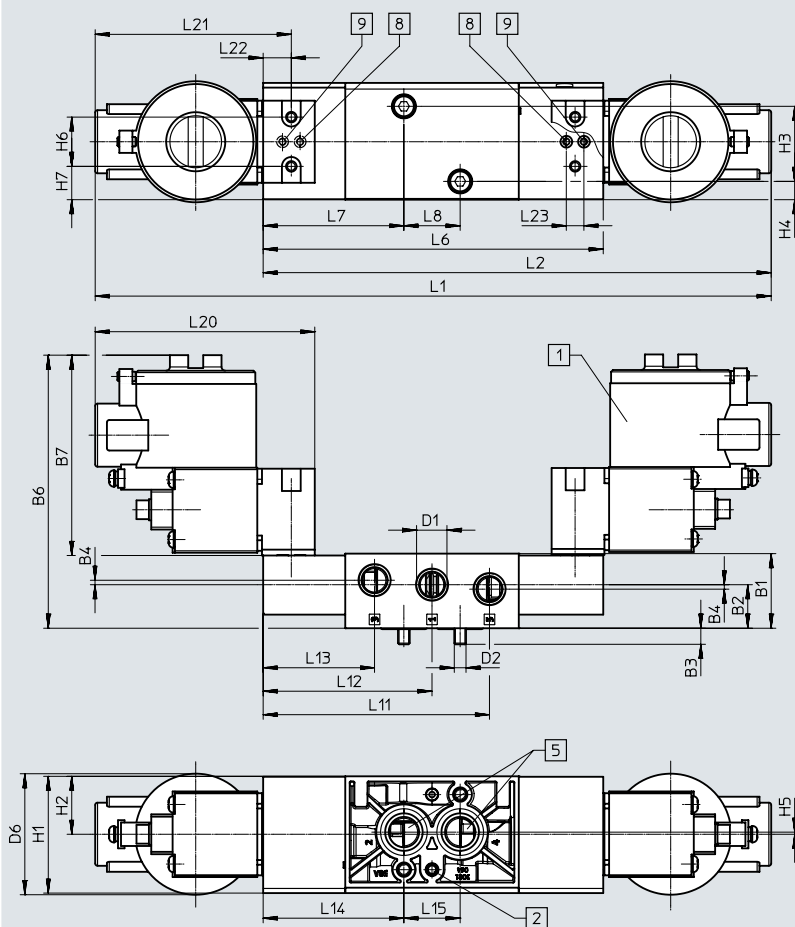
Electrical data		VSNC-F-P53C-M-G14-P2 VSNC-F-P53C-M-N14-P2	VSNC-F-P53E-M-G14-P2 VSNC-F-P53E-M-N14-P2	VSNC-F-P53U-M-G14-P2 VSNC-F-P53U-M-N14-P2
Characteristic coil data		See solenoid coil, to be ordered separately		
Duty cycle	[%]	100		
Switching time on	[ms]	5	6	6
Switching time off	[ms]	20	9	15
Switching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

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

Datasheet – 5/3-way valve VSNC-F...-P2

Dimensions

Download CAD data → [www.festo.com](http://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													
VSNC-F-P53U-M-N14-P2													
VSNC-F-P53E-M-N14-P2													

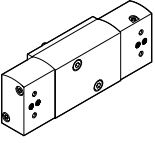
Type	L6	L7	L8	L11	L12	L13	L14	L15	L22	L23
VSNC-F-P53C-M-G14-P2	145	60	24	96.5	72	47.5	60	24	22	7.5
VSNC-F-P53U-M-G14-P2										
VSNC-F-P53E-M-G14-P2										
VSNC-F-P53C-M-N14-P2										
VSNC-F-P53U-M-N14-P2										
VSNC-F-P53E-M-N14-P2										

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

## Datasheet – 5/3-way valve VSNC-F...-P2

## Ordering data – Valves

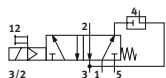
Directional control valve without solenoid coil

	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

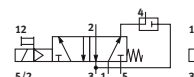



## Datasheet – 3/2-way or 5/2-way valve VSNC-FTC-...-F19/F19A, convertible

Convertible function  
3/2-way valve or

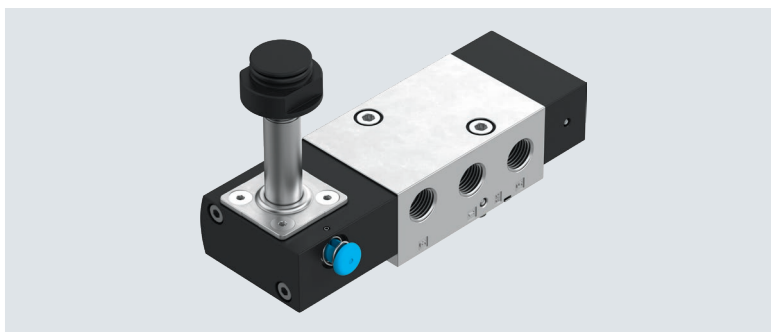


5/2-way valve



 Operating pressure  
2.5 ... 8 bar

 Temperature range  
-20 ... +60°C



General technical data		MH-G14-F19 MH-N14-F19	MH-G14-F19A MH-N14-F19A	M-G14-F19 M-N14-F19	M-G14-F19A, M-N14-F19A
Valve function		5/2-way or 3/2-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 function		Can be throttled			
Manual override		Non-detenting			None
Type of mounting		Via through-hole			
Port for venting hole		Not ducted			
Direction of flow		Not reversible			
Overlap		Negative overlap			
Mounting position		Any			
Standard nominal flow rate	1 > 2 [l/min]	800			
	Exhaust return 4 > 3 [l/min]	110			
Pneumatic connection	1, 3, 5	G1/4			
	2, 4	Port pattern to NAMUR			
Conforms to standard		VDI/VDE 3845 (NAMUR)			
Product weight	[g]	480			478

Operating and environmental conditions		MH-G14-F19 MH-N14-F19	MH-G14-F19A MH-N14-F19A	M-G14-F19 M-N14-F19	M-G14-F19A, M-N14-F19A
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 <sup>1)</sup>		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.

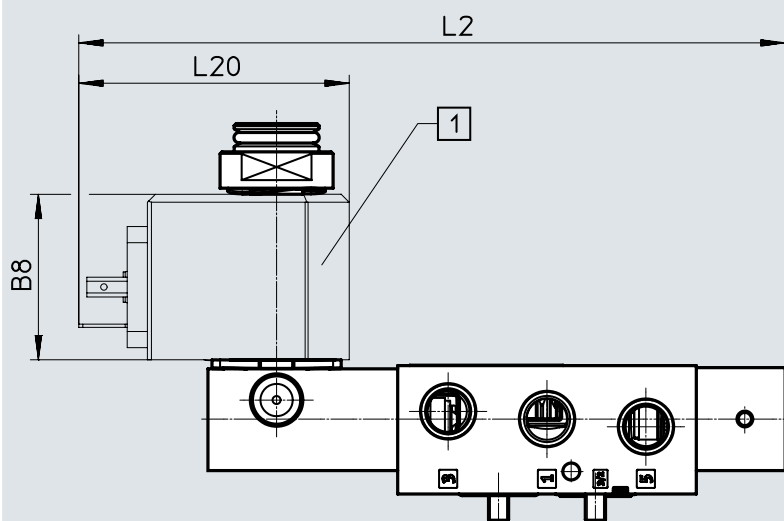
Datasheet – 3/2-way or 5/2-way valve VSNC-FTC-...-F19/F19A, convertible

Electrical data		MH-G14-F19 MH-N14-F19	MH-G14-F19A MH-N14-F19A	M-G14-F19 M-N14-F19	M-G14-F19A M-N14-F19A
Switching time on	[ms]	25	435	25	435
Switching time off	[ms]	65	380	65	380
Duty cycle	[%]	100			
Characteristic coil data	See solenoid coil, to be ordered separately				

Materials		MH-G14-F19 MH-N14-F19	MH-G14-F19A MH-N14-F19A	M-G14-F19 M-N14-F19	M-G14-F19A M-N14-F19A
[1]	Housing	Wrought aluminium alloy			
[2]	Seals	NBR			
[3]	Screws	Wrought aluminium alloy			
[4]	Note on materials	RoHS-compliant			

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



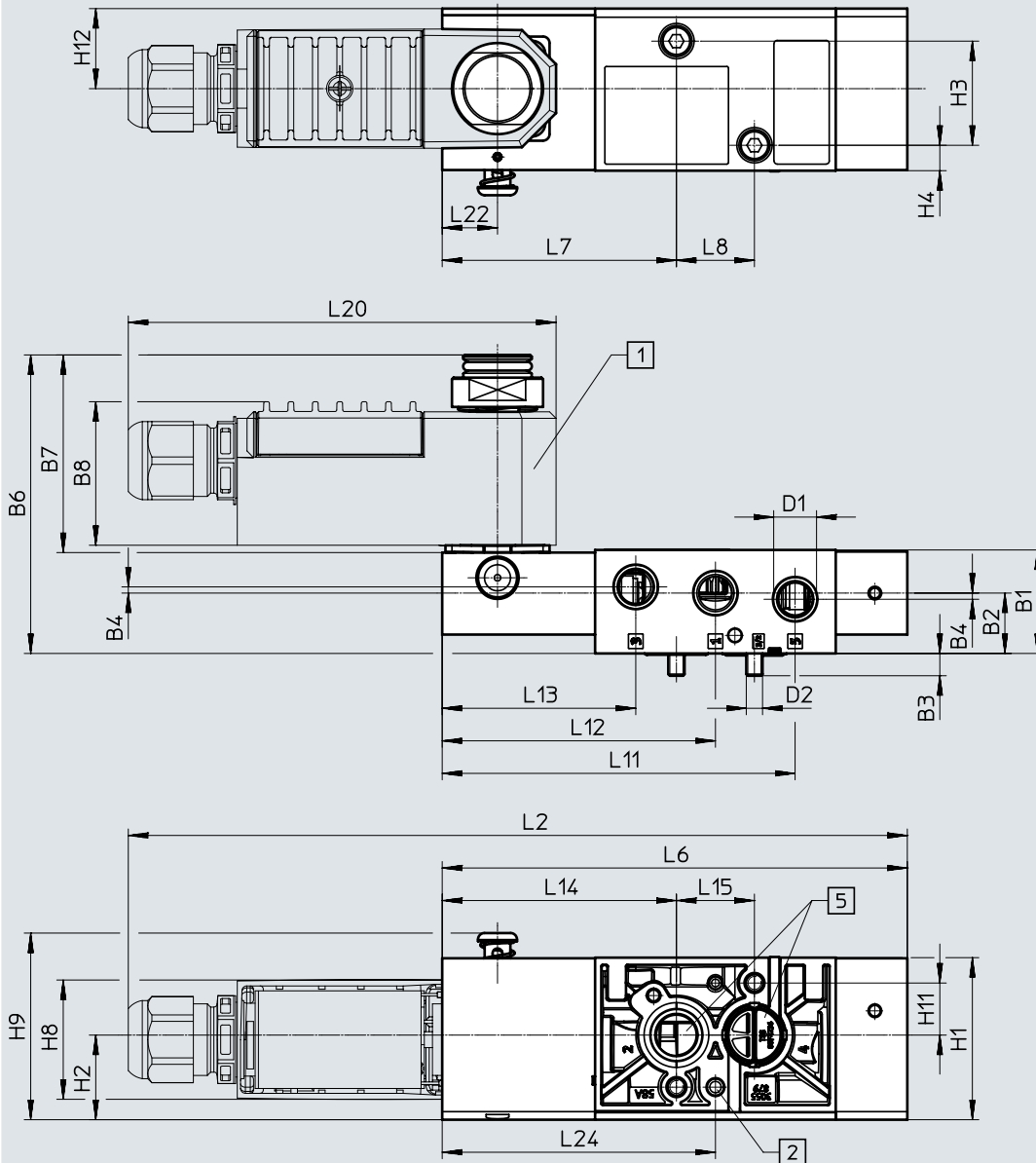
[1] Solenoid coil  
VACC-S13-18-A1-...

Type	B8	L1	L20
VSNC-FTC-M52-MH-G14-F19	44.1	234	126
VSNC-FTC-M52-MH-N14-F19			
VSNC-FTC-M52-M-G14-F19			
VSNC-FTC-M52-M-N14-F19			

Datasheet – 3/2-way or 5/2-way valve VSNC-FTC-...-F19/F19A, convertible

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Solenoid coil  
VACC-S13-11-K4-1-...A

[2]  $\varnothing 5.5$  for threaded pins  
DIN 946-m5X10-45h

[3] Working ports 2 and 4:  
NAMUR port pattern

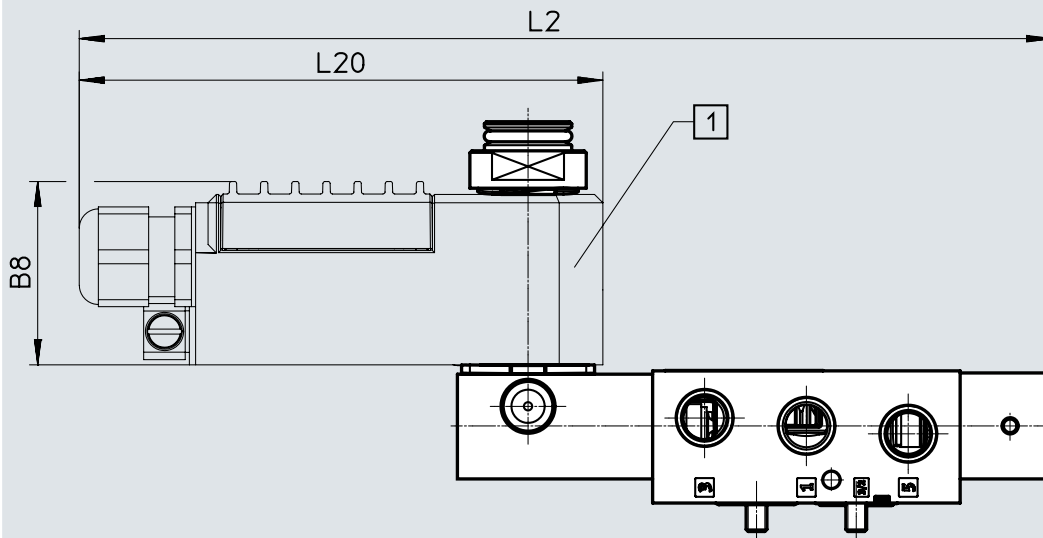
Type	B1	B2	B3	B4	B6	B7	B8	D1	D2	H1	H2	H3	H4	H8	H9
VSNC-FTC-M52-MH-G14-F19A	31.8	18.6	6.9	1.9	91.8	60.8	44.1	G1/4	M5	49.8	26	32	7.8	36.8	57.4
VSNC-FTC-M52-MH-N14-F19A								NPT1/4							
VSNC-FTC-M52-M-G14-F19A								G1/4							
VSNC-FTC-M52-M-N14-F19A								NPT1/4							

Type	H11	H12	L2	L6	L7	L8	L11	L12	L13	L14	L15	L20	L22	L24
VSNC-FTC-M52-MH-G14-F19A	16	24.6	239.5	143	72	24	108.5	84	59.5	72	24	131.5	17	84
VSNC-FTC-M52-MH-N14-F19A														
VSNC-FTC-M52-M-G14-F19A														
VSNC-FTC-M52-M-N14-F19A														

Datasheet – 3/2-way or 5/2-way valve VSNC-FTC-...-F19/F19A, convertible

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

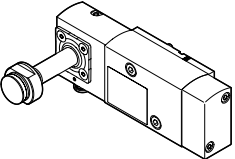


[1] Solenoid coil  
VACC-S13-18-K4-...-...ME

Type	B8	L1	L20
VSNC-FTC-M52-MH-G14-F19	41.2	175	67
VSNC-FTC-M52-MH-N14-F19			
VSNC-FTC-M52-M-G14-F19			
VSNC-FTC-M52-M-N14-F19			

Ordering data – Valves

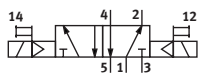
Directional control valve without solenoid coil


		Manual override	Part no.	Type
		Intrinsically safe	Non-detenting	8116369
Non-detenting	8116375		VSNC-FTC-M52-MH-N14-F19	
None	8116378		VSNC-FTC-M52-M-G14-F19	
None	8116379		VSNC-FTC-M52-M-N14-F19	
Non-detenting	8116376		VSNC-FTC-M52-MH-G14-F19A	
Non-detenting	8116377		VSNC-FTC-M52-MH-N14-F19A	
None	8116380		VSNC-FTC-M52-M-G14-F19A	
None	8116381		VSNC-FTC-M52-M-N14-F19A	

## Datasheet – 5/2-way valve VSNC-FT...-F19/F19A, double solenoid

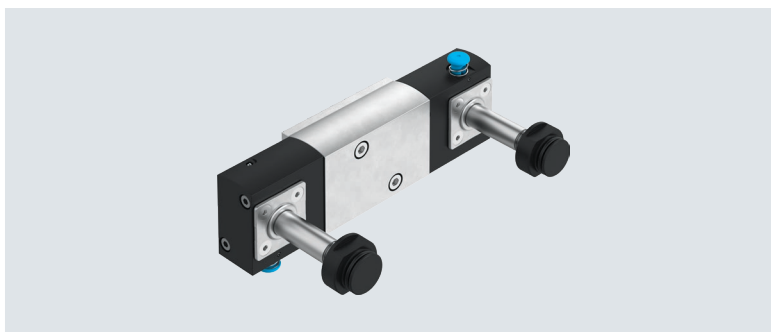
### Function

5/2-way valve, double solenoid



 Operating pressure  
1.5 ... 8 bar

 Temperature range  
-20 ... +60°C



### General technical data

	H-G14-F19 H-G14-F19A	H-N14-F19 H-N14-F19A	G14-F19 G14-F19A	N14-F19 N14-F19A
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 function	Can be throttled			
Manual override	Non-detenting			None
Type of mounting	Via through-hole			
Port for venting hole	Not ducted			
Mounting position	Any			
Overlap	Negative overlap			
Direction of flow	Not reversible			
Standard nominal flow rate [l/min]	1000			
Pneumatic port	1, 3, 5 2, 4	G1/4	1/4 NPT	G1/4 1/4 NPT
Conforms to standard	Port pattern to NAMUR VDI/VDE 3845 (NAMUR)			
Product weight [g]	613			

### 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 <sup>1)</sup>	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.

## Datasheet – 5/2-way valve VSNC-FT-...-F19/F19A, double solenoid

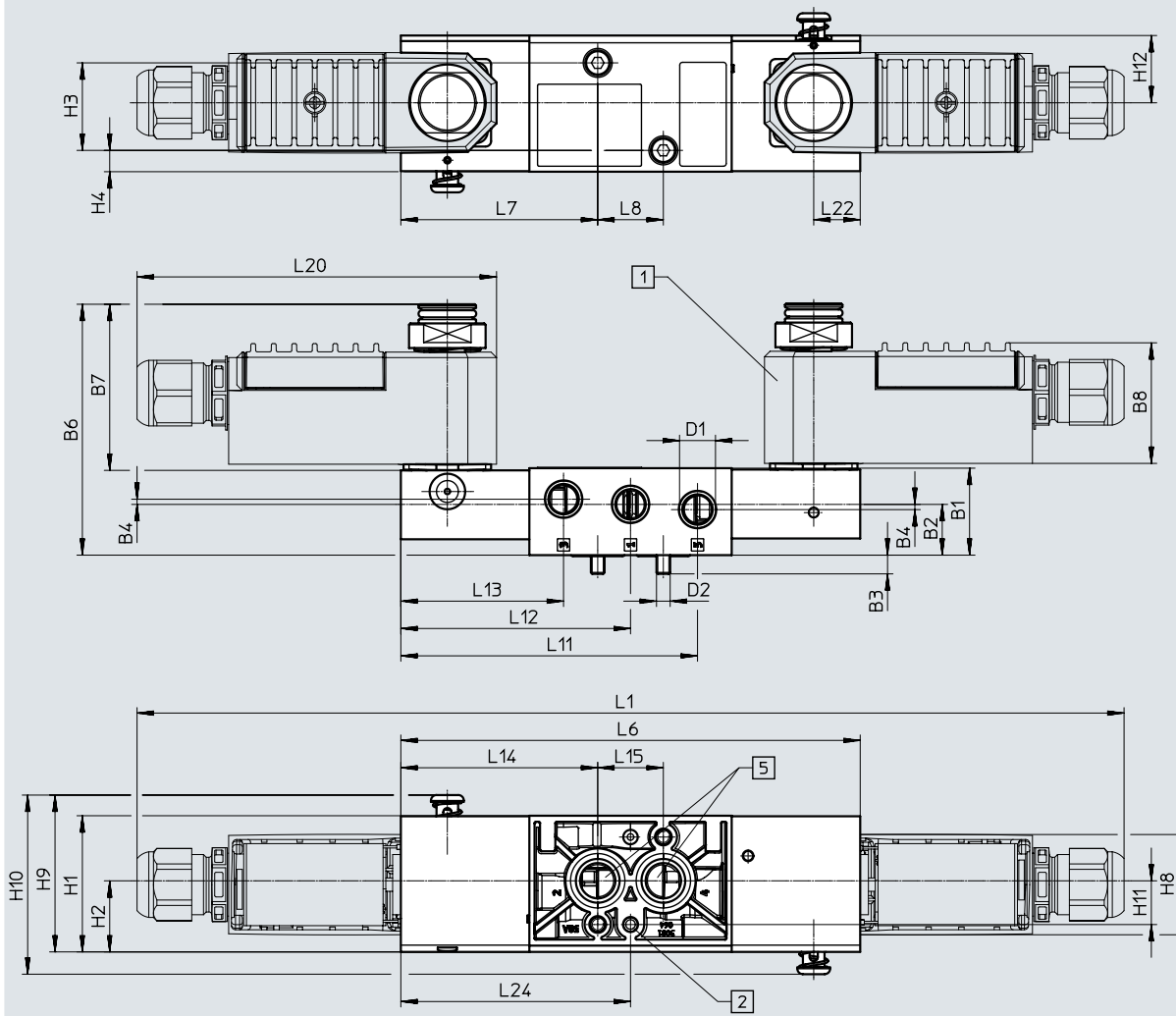
Electrical data		H-G14-F19	H-G14-F19A	G14-F19	G14-F19A
		H-N14-F19	H-N14-F19A	N14-F19	N14-F19A
Characteristic coil data		See solenoid coil, to be ordered separately			
Switching time changeover	[ms]	20	435	20	435
Duty cycle	[%]	100			

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

Datasheet – 5/2-way valve VSNC-FT-...-F19/F19A, double solenoid

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Solenoid coil  
VACC-S13-11-K4-1-...A

[2]  $\varnothing 5.5$  for threaded pins

[3] Working ports 2 and 4:  
NAMUR port pattern

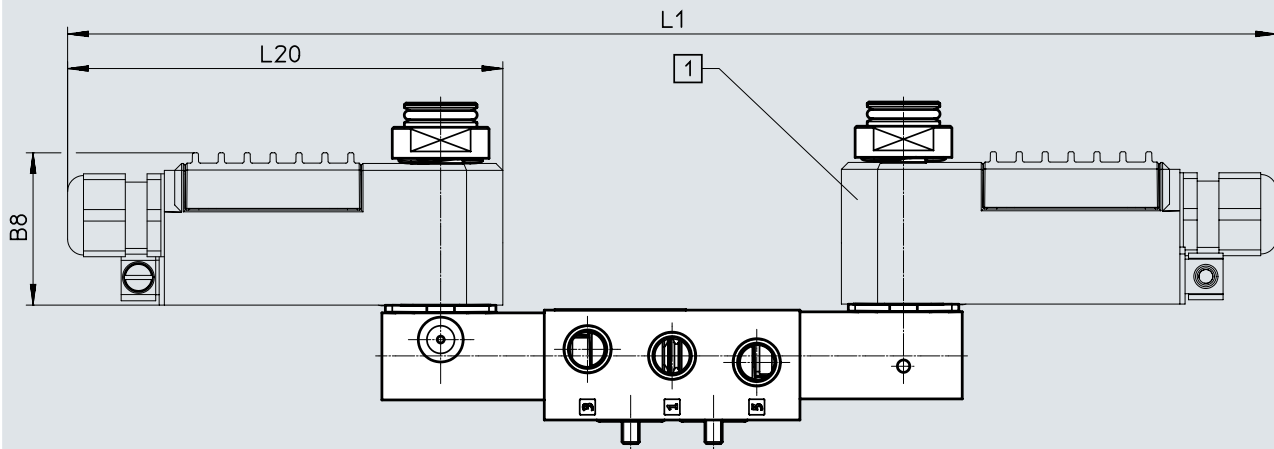
Type	B1	B2	B3	B4	B6	B7	B8	D1	D2	H1	H2	H3	H4	H8	H9
VSNC-FT-B52-H-G14-F19A	31.8	18.6	6.9	1.9	91.8	60.8	44.1	G1/4	M5	49.8	26	32	7.8	36.8	57.4
VSNC-FT-B52-H-N14-F19A								NPT1/4							

Type	H10	H11	H12	L1	L6	L7	L8	L11	L12	L13	L14	L15	L20	L22	L24
VSNC-FT-B52-H-G14-F19A	65.5	16	24.6	361	168	72	24	108.5	84	59.5	72	24	131.5	17	84
VSNC-FT-B52-H-N14-F19A															

Datasheet – 5/2-way valve VSNC-FT-...-F19/F19A, double solenoid

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Solenoid coil  
VACC-S13-18-K4-...-...ME

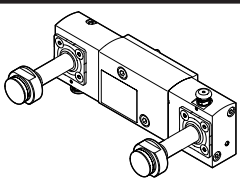
Type	B8	L1	L20
VSNC-FT-B52-H-G14-F19...	44.1	350	126
VSNC-FT-B52-H-N14-F19...			



## Datasheet – 5/2-way valve VSNC-FT-...-F19/F19A, double solenoid

## Ordering data – Valves

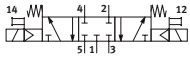
Directional control valve without solenoid coil


		Manual override	Part no.	Type
	–	Non-detenting	8116370	VSNC-FT-B52-H-G14-F19
		Non-detenting	8116382	VSNC-FT-B52-H-N14-F19
		None	8116385	VSNC-FT-B52-G14-F19
		None	8116386	VSNC-FT-B52-N14-F19
	Intrinsically safe	Non-detenting	8116383	VSNC-FT-B52-H-G14-F19A
		Non-detenting	8116384	VSNC-FT-B52-H-N14-F19A
		None	8116387	VSNC-FT-B52-G14-F19A
		None	8116388	VSNC-FT-B52-N14-F19A


## Datasheet – 5/3-way valve VSNC-F...-F19/F19A

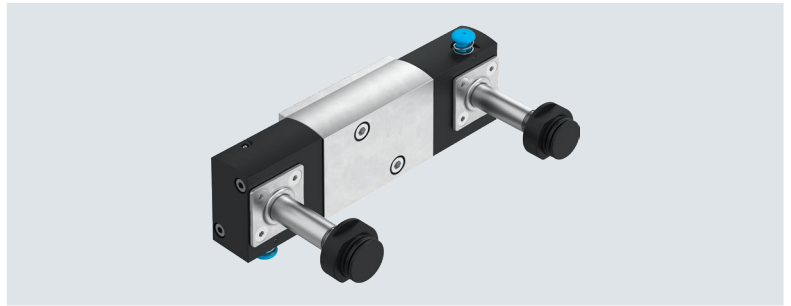
Function

5/3-way valve, closed

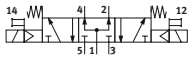


 Operating pressure  
3 ... 8 bar

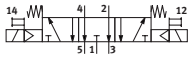
 Temperature range  
-20 ... +60°C



5/3-way valve, exhausted



5/3-way valve, pressurised



General technical data		P53C		P53U		P53E	
		Closed		Pressurised		Exhausted	
Valve function		5/3					
Width	[mm]	32					
Design		Piston spool					
Sealing principle		Soft					
Actuation type		Electrical					
Reset method		Mechanical spring					
Type of control		Piloted					
Pilot air supply		Internal					
Direction of flow		Not reversible					
Exhaust function		Can be throttled					
Manual override		Non-detenting					
Type of mounting		Via through-hole					
Port for venting hole		Not ducted					
Mounting position		Any					
Overlap		Positive overlap					
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 port	1, 3, 5 2, 4	G 1/4, 1/4 NPT					
Conforms to standard		Port pattern to NAMUR VDI/VDE 3845 (NAMUR)					
Product weight	[g]	619					

## Datasheet – 5/3-way valve VSNC-F-...-F19/F19A

Operating and environmental conditions		P53C	P53U	P53E
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 <sup>1)</sup>		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		P53C-MH-G14-F19, P53C-MH-N14-F19 P53C-M-G14-F19, P53C-M-N14-F19	P53U	P53E
5/3-way valve, closed				P53C-MH-G14-F19A, P53C-MH-N14-F19A P53C-M-G14-F19A, P53C-M-N14-F19A
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	24		435
Switching time off	[ms]	85		380
Switching time changeover	[ms]	60		435
Duty cycle	[%]	100		

Electrical data		P53U-MH-G14-F19, P53U-MH-N14-F19 P53U-M-G14-F19, P53U-M-N14-F19	P53U	P53E
5/3-way valve, pressurised				P53U-MH-G14-F19A, P53U-MH-N14-F19A P53U-M-G14-F19A, P53U-M-N14-F19A
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	24		440
Switching time off	[ms]	85		390
Switching time changeover	[ms]	60		435
Duty cycle	[%]	100		

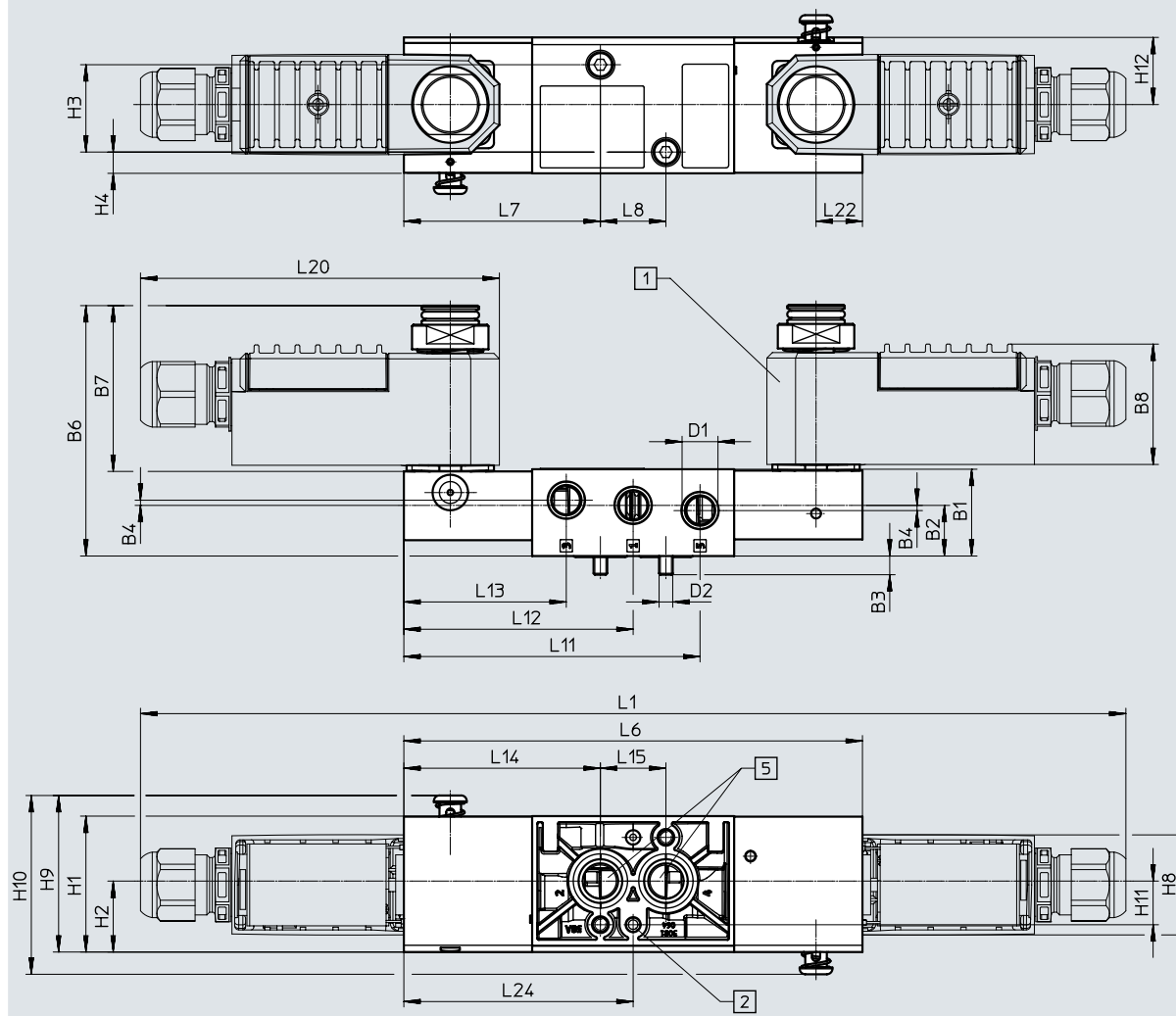
Electrical data		P53E-MH-G14-F19, P53E-MH-N14-F19 P53E-M-G14-F19, P53E-M-N14-F19	P53E	P53E
5/3-way valve, exhausted				P53E-MH-G14-F19A, P53E-MH-N14-F19A P53E-M-G14-F19A, P53E-M-N14-F19A
Characteristic coil data		See solenoid coil, to be ordered separately		
Switching time on	[ms]	24		400
Switching time off	[ms]	85		440
Switching time changeover	[ms]	60		400
Duty cycle	[%]	100		

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

Datasheet – 5/3-way valve VSNC-F...-F19/F19A

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Solenoid coil  
VACC-S13-11-K4-1-...A

[2]  $\varnothing$  5.5 for threaded pins

[3] Working ports 2 and 4:  
NAMUR port pattern

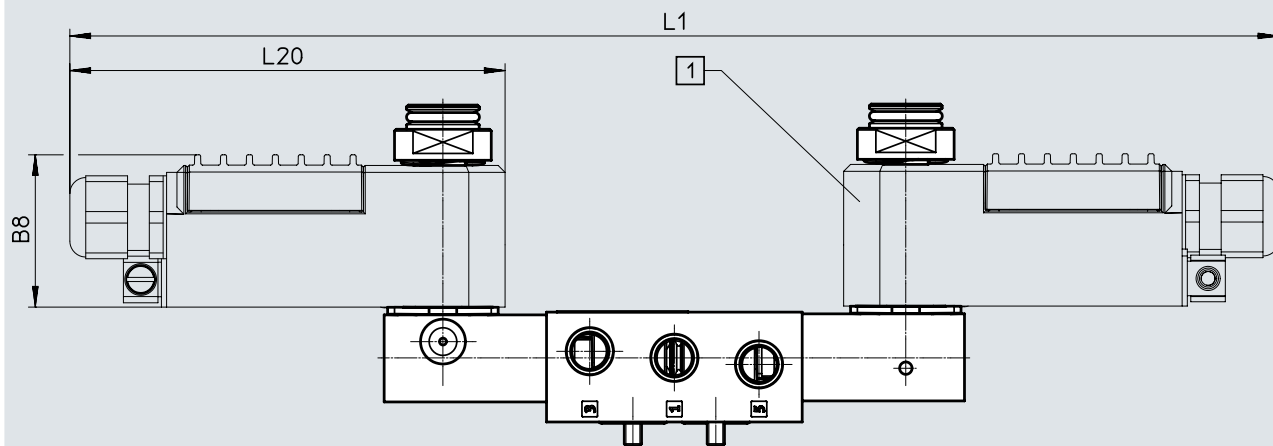
Type	B1	B2	B3	B4	B6	B7	B8	D1	D2	H1	H2	H3	H4	H8	H9
VSNC-FT-P53...-MH-G14-F19A	31.8	18.6	6.9	1.9	91.8	60.8	44.1	G1/4	M5	49.8	26	32	7.8	36.8	57.4
VSNC-FT-P53...-MH-N14-F19A								NPT1/4							

Type	H10	H11	H12	L1	L6	L7	L8	L11	L12	L13	L14	L15	L20	L22	L24
VSNC-FT-P53...-MH-G14-F19A	65.5	16	24.6	361	168	72	24	108.5	84	59.5	72	24	131.5	17	84
VSNC-FT-P53...-MH-N14-F19A															

Datasheet – 5/3-way valve VSNC-F-...-F19/F19A

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



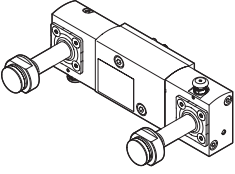
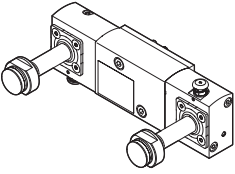
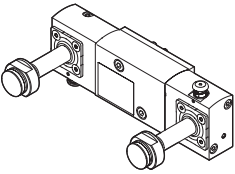
[1] Solenoid coil  
VACC-S13-18-K4-...-ME

Type	B8	L1	L20
VSNC-FT-B52-H-G14-F19...	44.1	350	126
VSNC-FT-B52-H-N14-F19...			

Datasheet – 5/3-way valve VSNC-F-...-F19/F19A

Ordering data – Valves

Directional control valve without solenoid coil

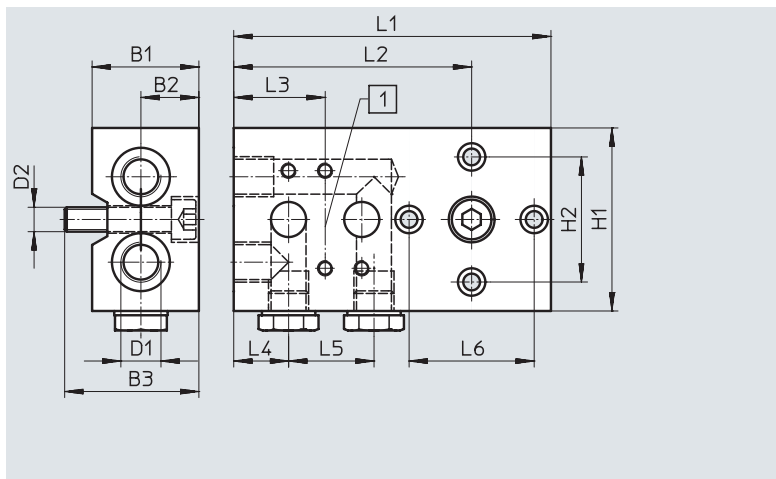
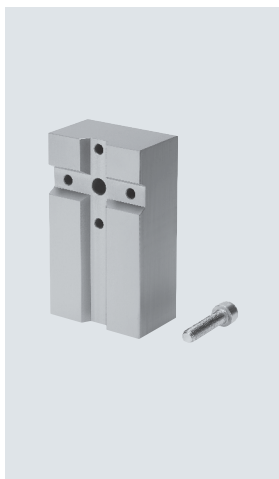
		Manual override	Part no.	Type
<b>5/3-way valve, closed</b>				
	–	Non-detenting	8116371	VSNC-F-P53C-MH-G14-F19
		Non-detenting	8116389	VSNC-F-P53C-MH-N14-F19
		None	8116400	VSNC-F-P53C-M-G14-F19
		None	8116401	VSNC-F-P53C-M-N14-F19
	Intrinsically safe	Non-detenting	8116390	VSNC-F-P53C-MH-G14-F19A
		Non-detenting	8116391	VSNC-F-P53C-MH-N14-F19A
		None	8116402	VSNC-F-P53C-M-G14-F19A
		None	8116403	VSNC-F-P53C-M-N14-F19A
<b>5/3-way valve, pressurised</b>				
	–	Non-detenting	8116392	VSNC-F-P53U-MH-G14-F19
		Non-detenting	8116393	VSNC-F-P53U-MH-N14-F19
		None	8116404	VSNC-F-P53U-M-G14-F19
		None	8116405	VSNC-F-P53U-M-N14-F19
	Intrinsically safe	Non-detenting	8116394	VSNC-F-P53U-MH-G14-F19A
		Non-detenting	8116395	VSNC-F-P53U-MH-N14-F19A
		None	8116406	VSNC-F-P53U-M-G14-F19A
		None	8116407	VSNC-F-P53U-M-N14-F19A
<b>5/3-way valve, exhausted</b>				
	–	Non-detenting	8116396	VSNC-F-P53E-MH-G14-F19
		Non-detenting	8116397	VSNC-F-P53E-MH-N14-F19
		None	8116408	VSNC-F-P53E-M-G14-F19
		None	8116409	VSNC-F-P53E-M-N14-F19
	Intrinsically safe	Non-detenting	8116398	VSNC-F-P53E-MH-G14-F19A
		Non-detenting	8116399	VSNC-F-P53E-MH-N14-F19A
		None	8116410	VSNC-F-P53E-M-G14-F19A
		None	8116411	VSNC-F-P53E-M-N14-F19A

## 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



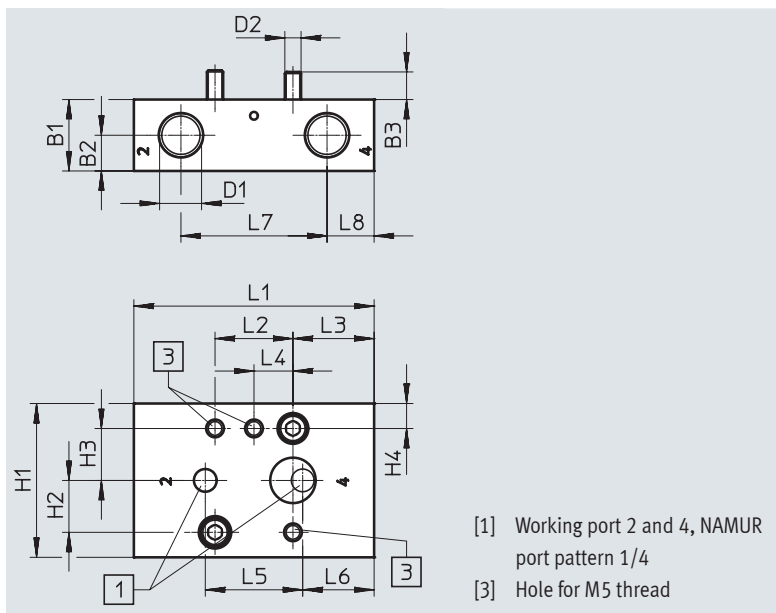
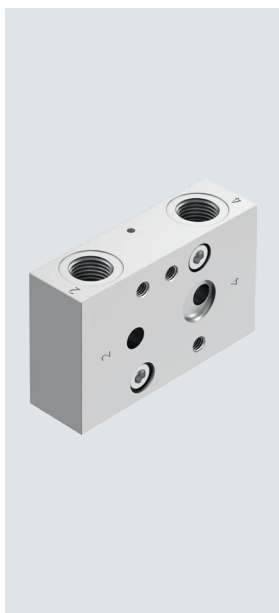
Dimensions [mm] and ordering data															Part no.	Type
B1	B2	B3	D1	D2	H1	H2	L1	L2	L3	L4	L5	L6	CRC <sup>1)</sup>	Part no.	Type	
35	19	44	G1/4	M8	60	41	104	78	30	18	28	41	4	563396	VABS-S7-S-G14	

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: 0 ... 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 impairment 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																	Part no.	Type	
B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4	L5	L6	L7	L8	CRC <sup>1)</sup>	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: 0 ... 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

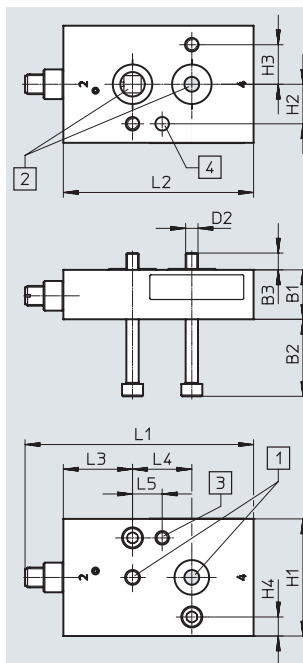
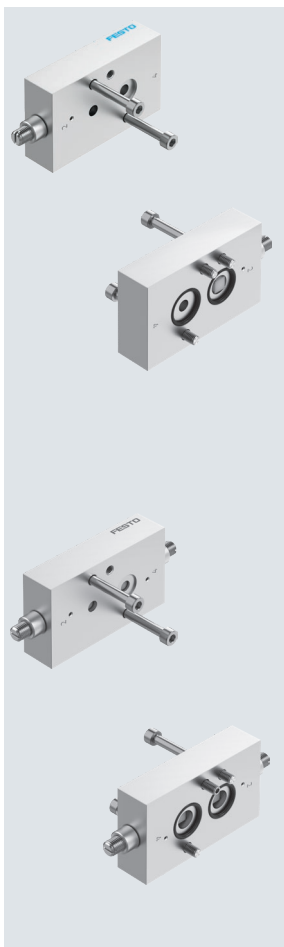
VABF ... P2: 229 g

Plate material:

Wrought aluminium alloy

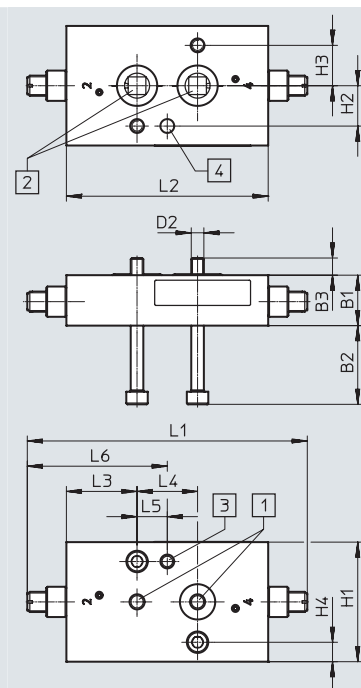
Note on materials:

Contains paint-wetting impairment 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

B1	B2	B3	D2	H1	H2	H3	H4	L1		L2	L3	L4	L5	L6		CRC <sup>1)</sup>	Part no.	Type
								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			

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: 0 ... 10 bar

Operating medium:

compressed air to ISO 8573-1:2010 [7:0:0]

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

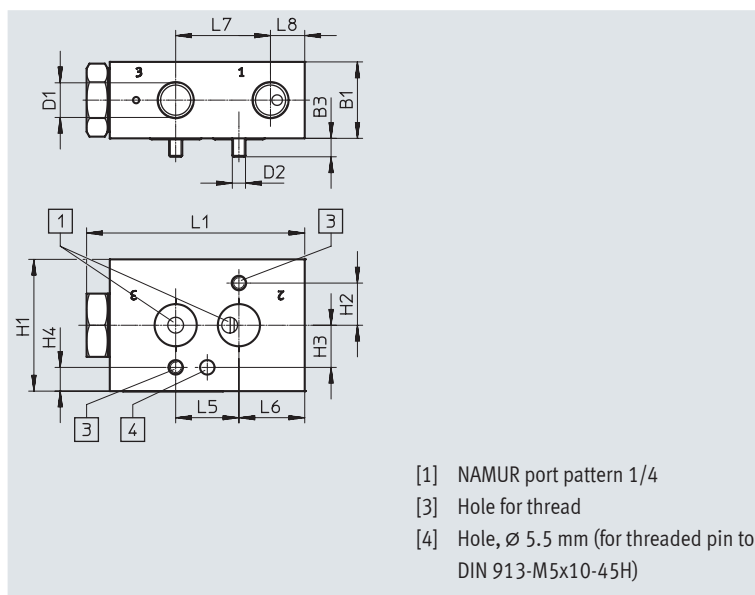
Weight: 280.5 g

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

B1	B3	D1	D2	H1	H2	H3	H4	L1	L5	L6	L7	L8	CRC <sup>1)</sup>	Part no.	Type
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: 0 ... 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:

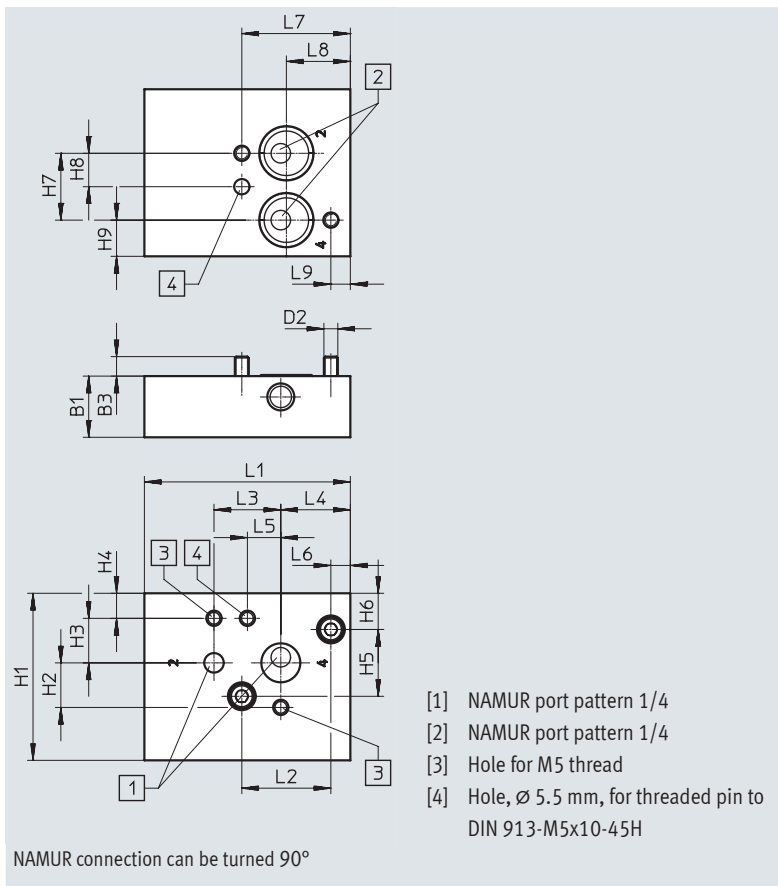
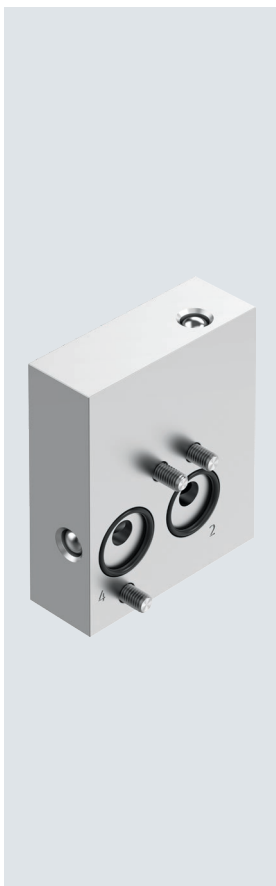
Contains paint-wetting impairment substances (not tested);

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.



NAMUR connection can be turned 90°

- [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	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 <sup>1)</sup>	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: 0 ... 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

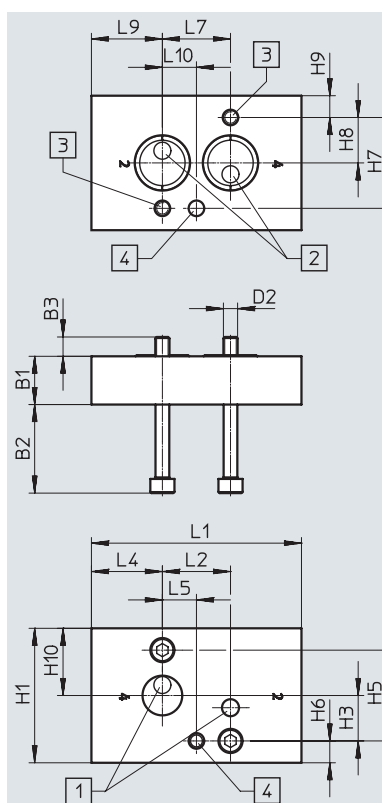
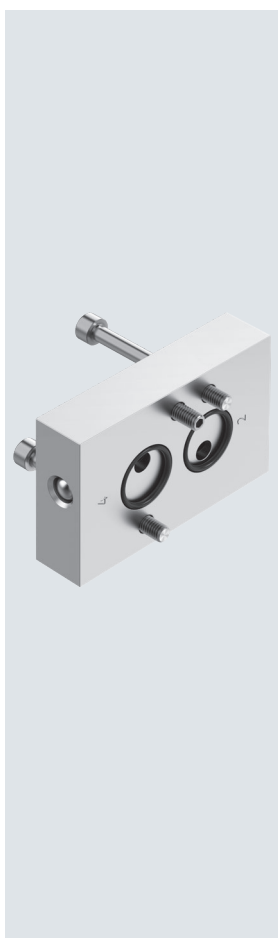
### Note on materials:

Contains paint-wetting impairment substances (not tested);  
 RoHS-compliant

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

### Additional benefit:

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



- [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

NAMUR connection can be turned 180°

### 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 <sup>1)</sup>	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: 0 ... 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

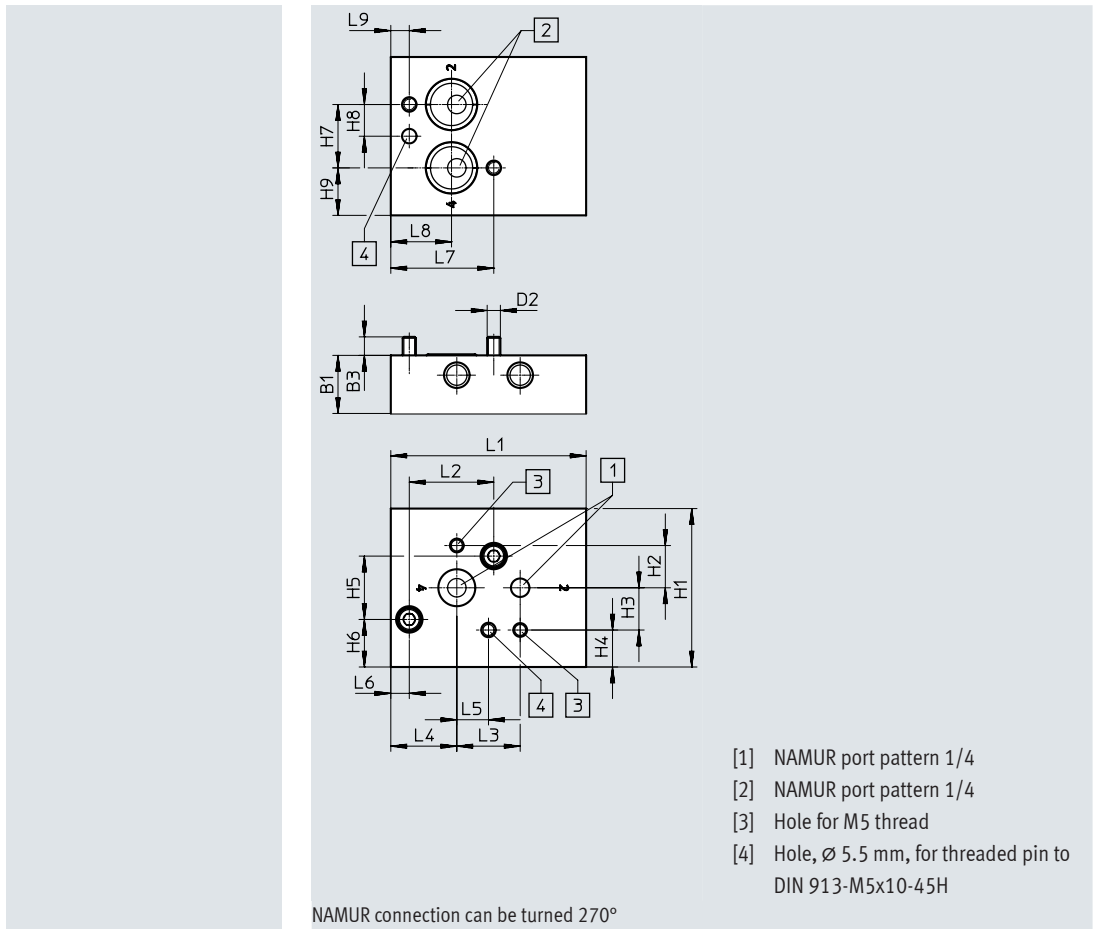
### Note on materials:

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

B1	B3	D2	H1	H2	H3	H4	H5	H6	H7	H8	Part no.	Type
22	7	M5	60	16	16	14	24	18	24	12	<b>8098891</b>	<b>VABS-B14-270-FF14</b>

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

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: 0 ... 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:

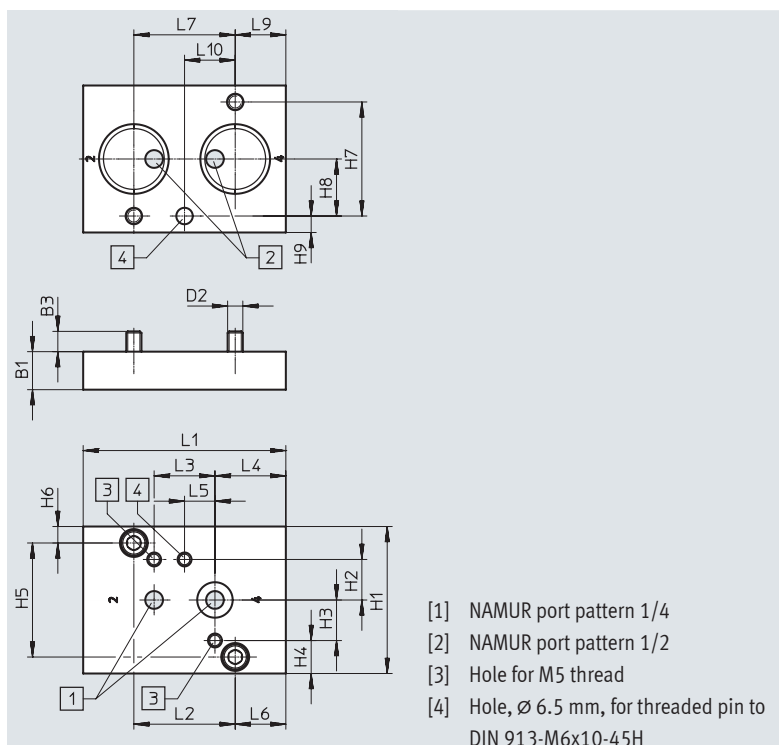
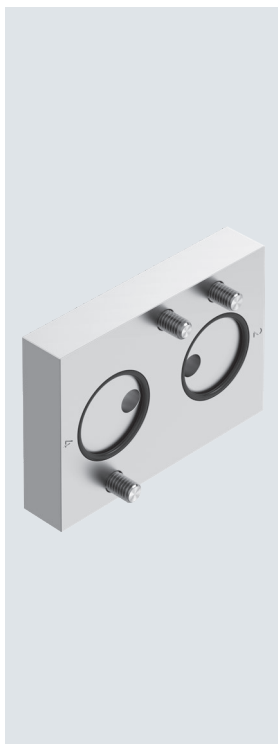
Wrought aluminium alloy

### 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		8098889	VABA-B14-FL12-FL14
15	8	M6	58	16	16	13	45	6.5	45	22.5			
H9	L1	L2	L3	L4	L5	L6	L7	L9	L10	CRC <sup>1)</sup>	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

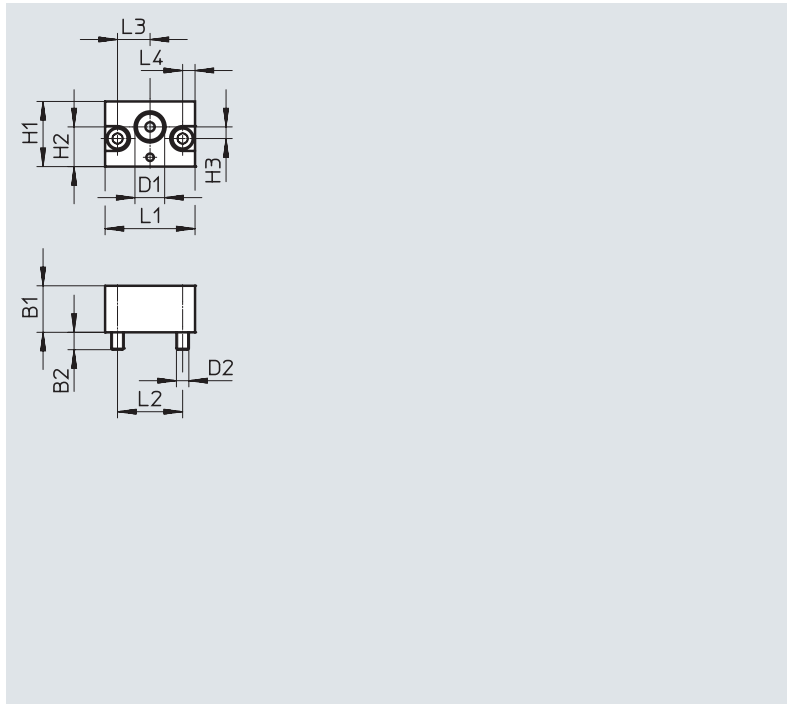
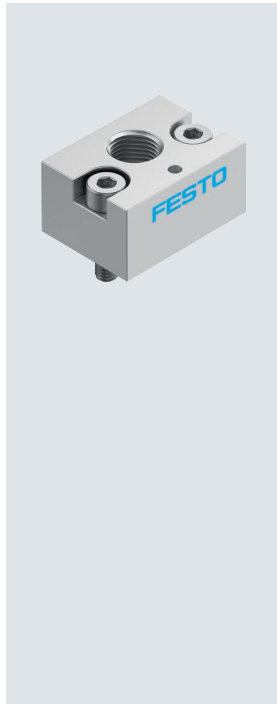
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

## 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).

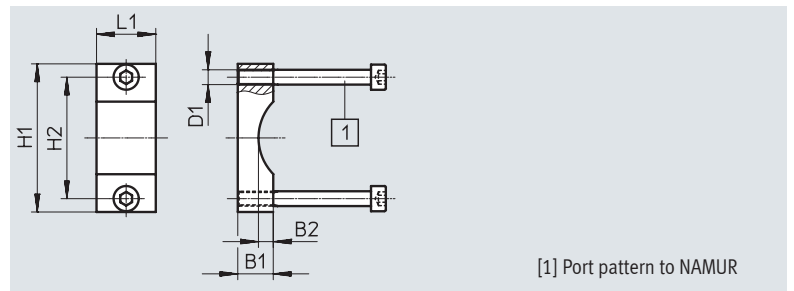


Dimensions [mm] and ordering data													Part no.	Type
B1	B2	D1	D2	H1	H2	H3	L1	L2	L3	L4	CRC <sup>1)</sup>			
15	5.6	G1/8	M4	21	12.8	~3.8	29	21	10.5	4	2	8099850	VABD-B14-P1-G18	
		1/8 NPT										8099629	VABD-B14-P1-N18	

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] Port pattern to NAMUR

Dimensions [mm] and ordering data										
B1	B2	B3	D1	H1	H2	L1	CRC <sup>1)</sup>	Part no.	Type	
4 5/65	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

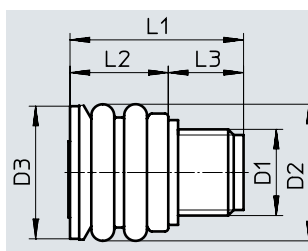
## Exhaust protection

Material:

EPDM, PA

Contains paint-wetting  
impairment substances,

RoHS-compliant



## Dimensions [mm] and ordering data

D1	D2	D3	L1	L2	L3	CRC <sup>1)</sup>	Part no.	Type
G1/4, 1/4 NPT	21	20.5	26.5	15	11.5	3	563400	VABD-D3-SN-G14



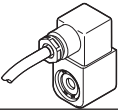
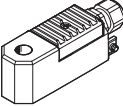
1) Corrosion resistance class CRC 3 to Festo standard FN 940070

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

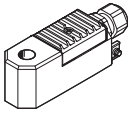
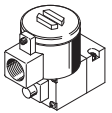
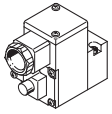
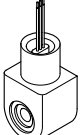

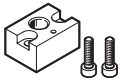
Characteristic coil data		Part no.	Type
<b>Electrical plug pattern to industry standard, type B</b>			
Datasheets → Internet: vacf			
	12 V DC; 3.4 W	8030801	VACF-B-B2-5
	24 V DC; 3.3 W	8030802	VACF-B-B2-1
	48 V DC; 3.4 W	8030803	VACF-B-B2-7
	24 V AC; 50/60 Hz, pick-up power 3.9 VA, holding power 2.6 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
<b>Electrical plug pattern to DIN EN 175301-803, type A</b>			
	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
<b>For armature system F19, connection pattern type A, to EN 175 301, 230 V DC and AC.</b>			
	24 V DC, 1.8 W	562889	VACC-S13-18-A1-1
	24 V DC, 1.8 W	562890	VACC-S13-18-A1-1U
	24 V AC, 40/65 Hz, power 1.8 VA		
	110 V DC, 1.8 W	562891	VACC-S13-18-A1-2U
	110 V AC, 40/65 Hz, power 1.8 VA		
	230 V DC, 1.8 W	562892	VACC-S13-18-A1-3U
230 V AC, 40/65 Hz, power 1.8 VA			
<b>Type of ignition protection: intrinsically safe Ex-ia</b>			
Datasheets → Internet: vacn			
	24 V DC, minimum switching current 27 mA	8029139	VACN-N-A1-1-EX-4-A
<b>Type of ignition protection: non-sparking Ex-nA</b>			
	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
	230 V AC; 50 Hz, pick-up power 6.9 VA, holding power 4.1 VA	8029138	VACN-N-A1-3A-EX2-N

## Accessories

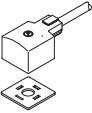
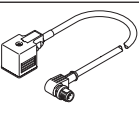

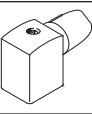



Ordering data – Solenoid coil		Part no.	Type
	Characteristic coil data		
<b>Degree of protection IP65 with socket</b>			
	24 V DC; 0.7 W	★ 8029144	VACN-N-A1-1
	110 V AC; 50 Hz, pick-up power 5.2 VA, holding power 3.1 VA	8029134	VACN-N-A1-16B
	230 V AC; 50 Hz, pick-up power 6.2 VA, holding power 3.7 VA	8029135	VACN-N-A1-3A
<b>Degree of protection IP65 with connecting cable M12</b>			
	24 V DC; power 2.7 W, connection: M12x1, A-coded to EN 61076-2-101; 2-pin (ISO 20401)	8104526	VACN-N-R3-1
	24 V DC; power 2.7 W, connection: M12x1, A-coded to EN 61076-2-101; 4-pin (DESINA)	8104527	VACN-N-R4-1
<b>Type of ignition protection: encapsulated Ex-me</b>			
	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
<b>Encapsulated solenoid coil with enhanced safety, Ex-me</b>		Datasheets → Internet: vacc	
	24 V DC, 1.8 W	8109396	VACC-S13-18-K4-1U-EX4ME
	24 V AC, 40/65 Hz, power 1.8 VA		
	110 V DC, 1.8 W	8109397	VACC-S13-18-K4-2U-EX4ME
	110 V AC, 40/65 Hz, power 1.8 VA		
	230 V DC, 1.8 W	8109398	VACC-S13-18-K4-3U-EX4ME
	230 V AC, 40/65 Hz, power 1.8 VA		
	24 V DC, 1.8 W	8109399	VACC-S13-18-K4-1UF-EX4ME
	24 V AC, 40/65 Hz, power 1.8 VA		
	60 V DC, 1.8 W	8109400	VACC-S13-18-K4-27U-EX4ME
	60 V AC, 40/65 Hz, power 1.8 VA		
	24 V AC/DC, NEPSI	8118329	VACC-S13-18-K4-1U-NE4ME
	24 V AC/DC, NEPSI	8118332	VACC-S13-18-K4-1UF-NE4ME
	60 V AC/DC, NEPSI	8118333	VACC-S13-18-K4-27U-NE4ME
	110 V AC/DC, NEPSI	8118330	VACC-S13-18-K4-2U-NE4ME
	230 V AC/DC, NEPSI	8118331	VACC-S13-18-K4-3U-NE4ME
	24 V AC/DC, INMETRO	8118324	VACC-S13-18-K4-1U-NM4ME
24 V AC/DC, INMETRO	8118327	VACC-S13-18-K4-1UF-NM4ME	
60 V AC/DC, INMETRO	8118328	VACC-S13-18-K4-27U-NM4ME	
110 V AC/DC, INMETRO	8118325	VACC-S13-18-K4-2U-NM4ME	
230 V AC/DC, INMETRO	8118326	VACC-S13-18-K4-3U-NM4ME	






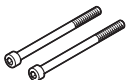
## Accessories

Ordering data – Solenoid coil		Part no.	Type
	Characteristic coil data		
<b>Type of ignition protection: intrinsically safe Ex-ia</b>			
	14-32 V DC, 0.22 - 1.1 W, to EU Explosion Protection Directive (ATEX)	8109401	VACC-S13-11-K4-1-EX4A
	14-32 V DC, 0.22 - 1.1 W, NEPSI	8114135	VACC-S13-11-K4-1-NE4A
	14-32 V DC, 0.22 - 1.1 W, INMETRO	8114078	VACC-S13-11-K4-1-NM4A
<b>Pilot valves with CNOMO port pattern, to ISO 15218</b>			
	24 V DC; 3.0 W, type of ignition protection: pressure-tight encapsulation Ex d	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, type of ignition protection: pressure-tight encapsulation Ex d	535616	MGXDH-3/2-1.2-110AC-EX
	230 V AC; 50/60 Hz, pick-up power 10 VA, holding power 6 VA, type of ignition protection: pressure-tight encapsulation Ex d	535617	MGXDH-3/2-1.2-230AC-EX
	24 V DC; 1.5 W, type of ignition protection: intrinsically safe Ex-ia	535614	MGXIAH-3/2-0.8-24DC-EX
<b>Ignition protection type m = encapsulated</b>			
	24 V DC	8029146	VACN-N-K11-1-0.5-U4-M
	120 V AC/60 Hz und 110 V AC/50-60 Hz	8029145	VACN-N-K11-16B-0.5-U4-M
	230 V AC/50-60 Hz	8029140	VACN-N-K11-3A-0.5-U4-M
<b>Cable connector</b>			
	For solenoid coil or pilot valve with connecting thread M20x1.5 / D. 7-13 mm, colour: black	568279	NETC-M-M20-KA
		446895	NETC-P-M20
		4197362	NETC-P-M20-EX4
<b>Connector</b>			
	For valves	8099850	VABD-B14-P1-G18

## Accessories

Ordering data						
	Description	Nominal operating voltage [V]		Cable length [m]	Part no.	Type
<b>Connecting cable</b> <span style="float: right;">Datasheets → Internet: kmc</span>						
	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
	For valves with F solenoid coils	230 V AC	–	2.5	30932	KMC-1-230 AC-2.5
				5	30934	KMC-1-230 AC-5
		24 DC		2.5	30935	KMF-1-24DC-2.5-LED
<b>Connecting cable</b> <span style="float: right;">Datasheets → Internet: nebv</span>						
	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
<b>Ordering data</b>						
	Description				Part no.	Type
<b>Plug socket</b> <span style="float: right;">Datasheets → Internet: mssd</span>						
	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
<b>Push-in fittings QS</b> <span style="float: right;">Datasheets → Internet: qs</span>						
	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
<b>Silencers U</b> <span style="float: right;">Datasheets → Internet: u</span>						
	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	Description	Part no.	Type
<b>Illuminating seal</b>			Datasheets → 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
<b>Cover cap</b>			
	For valves	8028240	VAMC-B10-20-CH2
<b>Screw set</b>			
	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