Valve series VOFD

FESTO

Solenoid valves VOFD

Key features

General information

- The valves in the VOFD series are special 3/2-way valves for the area of process automation for use in chemical and petrochemical plants, where they are frequently used as pilot valves for butterfly valves and drives. Their sturdy design and high resistance to corrosion make these valves suitable for outdoor use under harsh ambient conditions.
- The NAMUR flange pattern makes the solenoid valves especially suitable for quarter-turn actuators. The integrated spring chamber venting protects quarter-turn actuators with spring return (single-acting cylinders and drives) against contaminated ambient air and weather influences such as rain.
- With German Technical Control Board (TÜV) approval up to AK7/SIL-4

Function, design

- 3/2-way directly actuated poppet valves

Safety

- Can be used in emergency shutdown (ESD) applications
- Suitable for use in safety-related systems up to and including SIL4 to IEC 61508

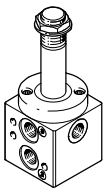
Sturdy

- The surface of the valve housing is treated with hard Ematal. This treatment involves converting the aluminium surface into a very hard aluminium oxide layer with titanium oxide intercalations. This makes the valves very resistant to wear and abrasion and gives them first-class sliding qualities. This provides optimum protection against atmospheric and chemical influences
- You can find information on the media resistance of the product at ➔ www.festo.com

Economical

- One valve, two connection options
- Port pattern to NAMUR for direct mounting of a drive as well as G and NPT threaded connections
- Manual override can be ordered optionally
- Manual override can be retrofitted and removed again – no additional valve version required

VOFD – Basic valves



- 3/2-way valves
- G¼, NPT¼ connections
- NAMUR port pattern, NAMUR port pattern with P duct

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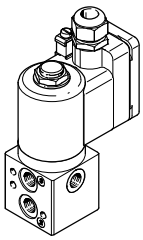
VOFD – Solenoid valves



- Combination of VOFD basic valve and VACC-S18 coil
- 3/2-way valves
- Ignition protection types Ex emb II

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Accessories for VOFD valves

- Flow control plates
- Exhaust protection
- Manual override

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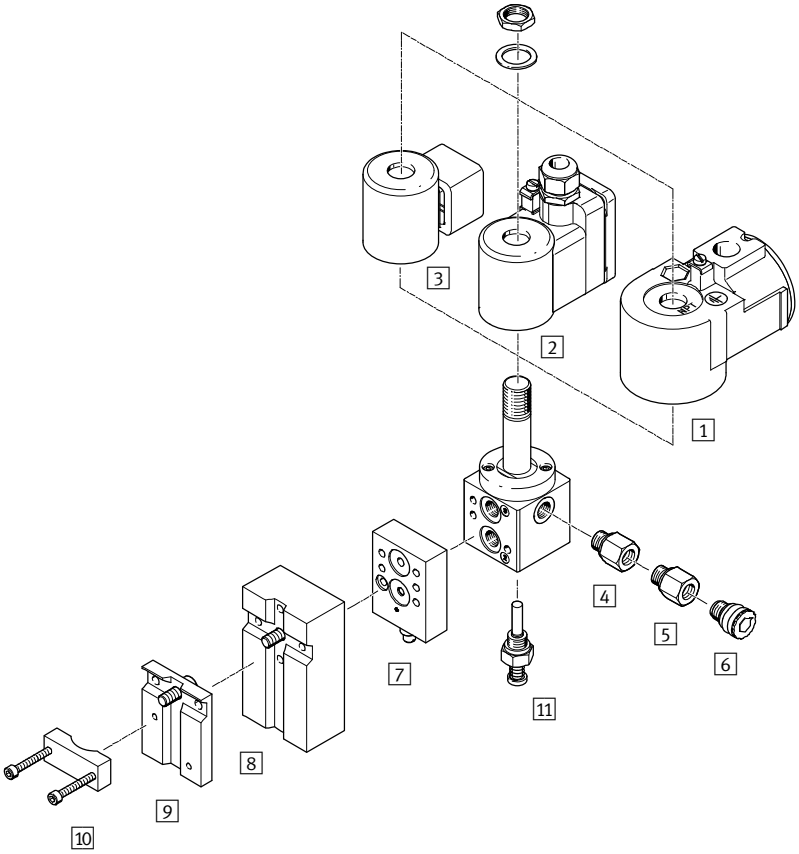
Solenoid valves VOFD

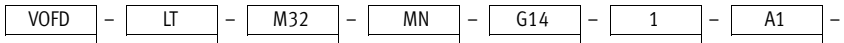
Overview of peripherals



Mounting attachments and accessories		
	Brief description	**➔ Page/Internet**
1 Solenoid coil VACC-S18	Standard solenoid	19
2 Solenoid coil VACC-S18-me	Ex-emb solenoid	17
3 Solenoid coil VACC-S18-d	Ex-d solenoid	22
4 Adapter NPFV-AF-G14-N14-MF	Adapter from G¼ to NPT¼, with filter	26
5 Adapter NPFV-AF-G14-G14-MF	Adapter from G¼ to G¼, with filter	26
6 Exhaust protection VABD-D3-SN-G14	Exhaust protection to IP65. The spring chamber of drive 8 solenoid valve is protected against the ingress of aggressive ambient air and water by the one-way flow control system	26
7 Flow control plate VABF-S7-F1B5P1-F	Exhaust air flow control plate for NAMUR interface for installation between the solenoid valve and single-acting drives	24
8 Connection plate kit VABF-S7-S-G14	Mounting plate for attaching the valve to a NAMUR rib	25
9 Mounting plate VAME-S7-P	Mounting plate for attaching the valve to a NAMUR rib	24
10 Mounting bracket VAME-S7-Y	Alternative option (instead of screw) for attaching the valve to a NAMUR rib with the help of a mounting bracket	25
11 Hand lever VAOH-S8	Manual override	1178

Solenoid valves VOFD

Type codes



Type	
VOFD	Solenoid valves

Directional control valve type, design principle	
LT	In-line valve, poppet valve

Valve function	
M32	Universal valves

Reset method for single solenoid valves	
MN	Mechanical spring without pilot air

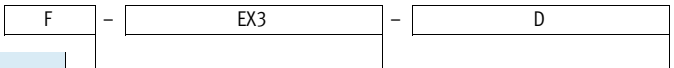
Pneumatic connection	
G14	G¼
N14	NPT¼
FG14	NAMUR G¼
FGP14	NAMUR G¼ with P connection

Nominal operating voltage	
	Without solenoid coil/not relevant
1	24 V DC
1U	24 V DC and AC
2A	110 V AC/50-60 Hz
2U	110 V DC and AC
3A	230 V AC/50-60 Hz
3U	230 V DC and AC
1A	24 V AC

Electrical connection	
A1	Port pattern type A, to EN 175 301
K4	Cable connector M20
F10	Armature tube for solenoid coil 18

Solenoid valves VOFD

Type codes



Protective circuit	
	None/standard
F	Fuse

Approval EU, US	
	Approval defined upon introduction (standard)
Ex3	II 2G
Ex4	II 2GD

Explosion protection type	
	None
D	Pressure-resistant encapsulation
ME	Moulded encapsulation, enhanced safety emb

Solenoid coils VACC-S18

Type codes

FESTO

VACC	–	S18	–	A1	–	1	–	F	–		–	

Type	
VACC	Solenoid coil

Solenoid coil type	
S18	Shaft 18 mm

Electrical connection	
A1	Port pattern type A, to EN 175 301
K4	Cable connector M20
K5	Cable connector NPT

Nominal operating voltage	
1	24 V DC
1A	24 V AC
1U	24 V DC and AC
2A	110 V AC/50-60 Hz
2U	110 V DC and AC
3A	230 V AC/50-60 Hz
3U	230 V DC and AC

Protective circuit	
	None
F	Fuse

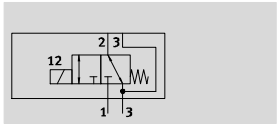
Approval EU, US	
Ex3	II2G
Ex4	II2GD

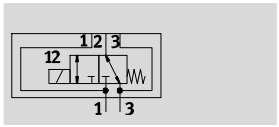
Explosion protection type	
D	Pressure-resistant encapsulation
ME	Moulded encapsulation, enhanced safety
A	Intrinsically safe

Basic valves VOFD

Technical data – 3/2-way valves, G¼ and NAMUR

Function
3/2-way valve





Flow rate
450 l/min

General technical data			
		G¼ basic valve and NAMUR	G¼ basic valve and NAMUR, P connection
Valve function		3/2-way, closed, single solenoid	
Pneumatic connection	1	G¼	NAMUR port pattern
	2	G¼ and NAMUR port pattern	
	3	G¼	
	4	G¼ and NAMUR port pattern	
Design		Directly actuated poppet valve	
Width	[mm]	51	
Mounting position		Any	
Duty cycle		100%	
Sealing principle		Soft	
Manual override		None	
Reset method		Mechanical spring	
Actuation type		Electric	
Suitable for vacuum		Yes	
Type of control		Direct	
Flow rate for piston valve pressurisation	[m^3/h]	0.36	
Flow rate for piston valve exhausting	[m^3/h]	0.36	
Direction of flow		Non-reversible	
Product weight	[g]	560	
Response time off	[ms]	9	
Response time on	[ms]	45	
Nominal size	[mm]	5	
Standard nominal flow rate	[l/min]	450	

Basic valves VOFD

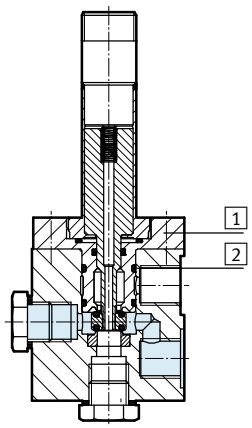
Technical data – 3/2-way valves, G¼ and NAMUR

Operating and environmental conditions			
		G¼ basic valve and NAMUR	G¼ basic valve and NAMUR, P connection
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [–:–:–]	
Protection class		IP65	
Operating pressure range	[bar]	0 ... 10	
Temperature of medium	[°C]	–10 ... 60	
Ambient temperature	[°C]	–10 ... 60	
Extended ambient temperature, Low Demand mode	[°C]	–25 ... 60	
Safety integrity level	[SIL]	Up to SIL 4 Low Demand mode	
		Up to SIL 4 High Demand mode	
Corrosion resistance class CRC[1)]		4	

1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

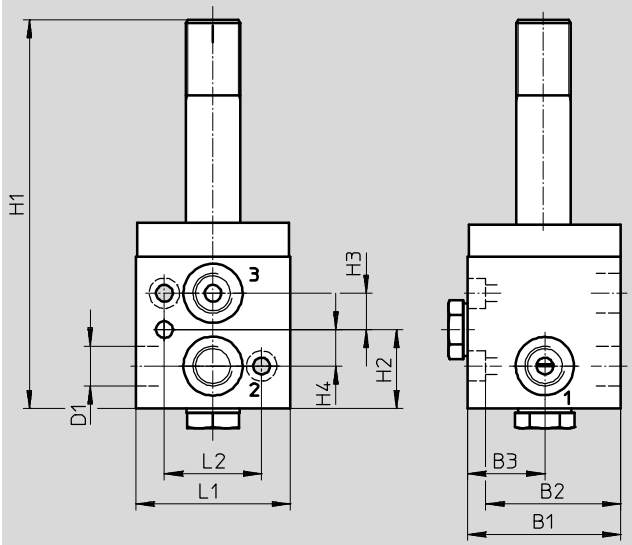
Materials

Sectional view



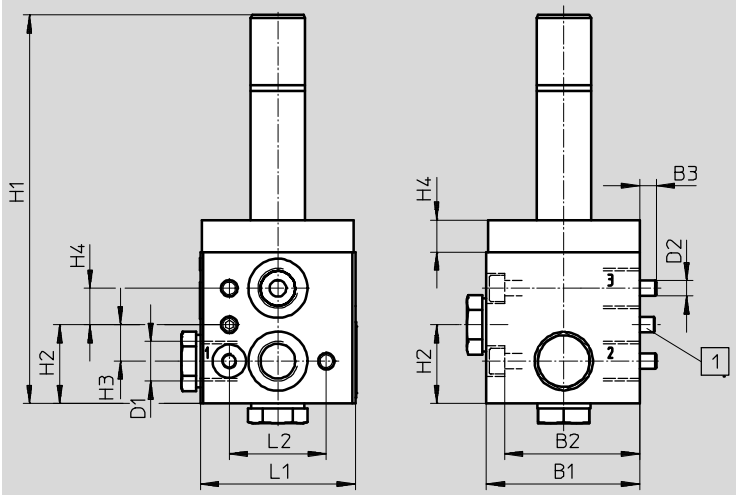
Solenoid valves		G¼ basic valve and NAMUR	G¼ basic valve and NAMUR, P connection
1	Housing	Hard Ematal-anodised aluminium	
2	Seals	Nitrile rubber	
–	Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	

Dimensions – G¼ basic valve and NAMUR — Download CAD data ➔ **www.festo.com**



Type	B1	B2	B3	D1	H1	H2	H3	H4	L1	L2
VOFD-LT-M32-MN-FG14-F10	50.5	25.5	25.5	G¼, NAMUR	128.2	26	12	12	51	32

Dimensions – G¼ basic valve and NAMUR, P connection — Download CAD data ➔ **www.festo.com**



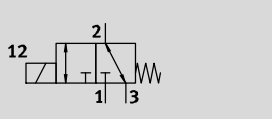
1 Coding pin M5x10

Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2
VOFD-LT-M32-MN-FGP14-F10	50.5	44.5	5.5	G¼, NAMUR	M5	128.2	26	10.5	12	51	32

Basic valves VOFD

Technical data – 3/2-way valves, G¼ and NPT¼-18

Function
3/2-way valve



Flow rate
450 l/min

General technical data			
		G¼ basic valve	NPT¼-18
Valve function		3/2-way, closed, single solenoid	
Pneumatic connection	1	G¼	NPT¼-18
	2	G¼	NPT¼-18
	3	G¼	NPT¼-18
Design		Directly actuated poppet valve	
Width	[mm]	51	
Mounting position		Any	
Duty cycle		100%	
Sealing principle		Soft	
Manual override		None	
Reset method		Mechanical spring	
Actuation type		Electric	
Suitable for vacuum		Yes	
Type of control		Direct	
Flow rate for piston valve pressurisation	[m^3/h]	0.36	
Flow rate for piston valve exhausting	[m^3/h]	0.36	
Direction of flow		Reversible	
Product weight	[g]	560	
Response time off	[ms]	9	
Response time on	[ms]	45	
Nominal size	[mm]	5	
Standard nominal flow rate	[l/min]	450	

Operating and environmental conditions			
		G¼ basic valve	NPT¼-18
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [–:–:–]	
Protection class		IP65	
Operating pressure range	[bar]	0 ... 10	
Temperature of medium	[°C]	–10 ... 60	
Ambient temperature	[°C]	–10 ... 60	
Extended ambient temperature, Low Demand mode	[°C]	–25 ... 60	
Safety integrity level	[SIL]	Up to SIL 4 Low Demand mode	
		Up to SIL 4 High Demand mode	
Corrosion resistance class CRC[1)]		4	

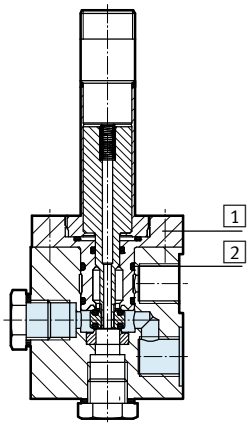
1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Basic valves VOFD

Technical data – 3/2-way valves, G¼ and NPT¼-18

Materials

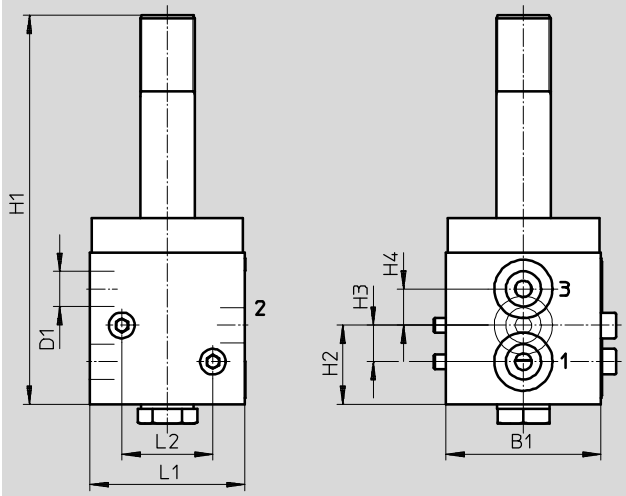
Sectional view



Solenoid valves	G¼ basic valve	NPT¼-18
1 Housing	Hard Ematal-anodised aluminium	
2 Seals	Nitrile rubber	
– Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant	

Dimensions

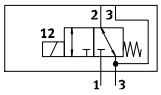
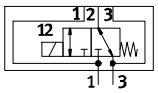
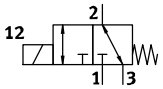
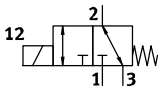
Download CAD data ➔ **www.festo.com**



Type	B1	D1	H1	H2	H3	H4	L1	L2
VOFD-LT-M32-MN-G14-F10	51	G¼	128.2	26	12	12	51	30
VOFD-LT-M32-MN-N14-F10	51	NPT¼	128.2	26	12	12	51	30

Basic valves VOFD

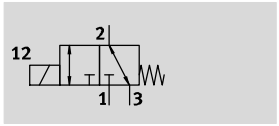
Technical data – 3/2-way valves, G¼ and NPT¼-18

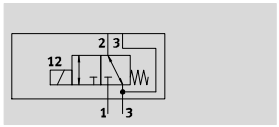
Ordering data				
Circuit symbol	Function	Pneumatic connection	Part No.	Type
Directly actuated poppet valve				
	3/2-way, closed, single solenoid	G¼ and NAMUR	**562 883**	**VOFD-LT-M32-MN-FG14-F10**
	3/2-way, closed, single solenoid	NAMUR with P connection	**570 786**	**VOFD-LT-M32-MN-FGP14-F10**
	3/2-way, closed, single solenoid	G¼	**562 881**	**VOFD-LT-M32-MN-G14-F10**
	3/2-way, closed, single solenoid	NPT¼-18	**562 882**	**VOFD-LT-M32-MN-N14-F10**

Solenoid valves VOFD

Technical data – 3/2-way valves, G¼

Function
3/2-way valve





Flow rate
450 l/min

Voltage
24 V DC/AC

General technical data					
			G¼ solenoid valve	NPT¼ solenoid valve	G¼ solenoid valve and NAMUR
Valve function			3/2-way, closed, single solenoid		
Pneumatic connection	1		G¼	NPT¼-18	G¼
	2		G¼	NPT¼-18	G¼ and NAMUR port pattern
	3		G¼	NPT¼-18	G¼
	4		–	–	G¼ and NAMUR port pattern
Design			Directly actuated poppet valve		
Width		[mm]	51		
Mounting position			Any		
Duty cycle			100%		
Sealing principle			Soft		
Manual override			None		
Reset method			Mechanical spring		
Actuation type			Electric		
Electrical connection			Terminal box, cable entry thread M20x1.5		
Permissible voltage fluctuations			–15%/+10%		
Coil characteristics	DC voltage 24 V	[W]	3.5		
	AC voltage 24 V	[VA]	3.5		
Suitable for vacuum			Yes		
Type of control			Direct		
Flow rate for piston valve pressurisation		[m^3/h]	0.36		
Flow rate for piston valve exhausting		[m^3/h]	0.36		
Direction of flow			Non-reversible		G¼ + NPT: reversible, G¼ + Namur: non-reversible
Product weight		[g]	1,140		
Response time off		[ms]	9		
Response time on		[ms]	45		
Nominal size		[mm]	5		
Standard nominal flow rate		[l/min]	450		

Solenoid valves VOFD

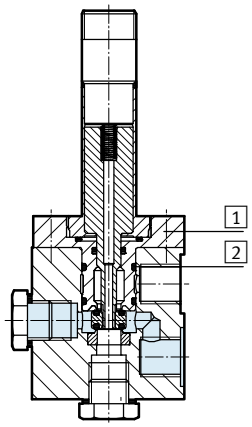
Technical data – 3/2-way valves, G¼

Operating and environmental conditions				
		G¼ solenoid valve	NPT¼ solenoid valve	G¼ solenoid valve and NAMUR
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [–:–:–]		
Protection class		IP65		
Operating pressure range	[bar]	0 ... 10		
Temperature of medium	[°C]	–10 ... 60		
Ambient temperature	[°C]	–10 ... 60		
Extended ambient temperature, Low Demand mode	[°C]	–25 ... 60		
ATEX category for gas		II 2G		
ATEX category for dust		II 2D		
Explosion ignition protection type for gas		Ex emb II T6, T5		
Explosion ignition protection type for dust		Ex tD A21 IP65 T80°C, T95°C		
Explosion-proof temperature rating	T80°C	-20°C <= Ta <= +50°C		
	T95°C	-20°C <= Ta <= +60°C		
Certificate issuing authority		PTB 08 ATEX 2033 X		
CE mark (see declaration of conformity)		To EU Explosion Protection Directive (ATEX)		
Safety integrity level	[SIL]	Up to SIL 4 Low Demand mode		
		Up to SIL 4 High Demand mode		
Corrosion resistance class CRC[1)]		4		

1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

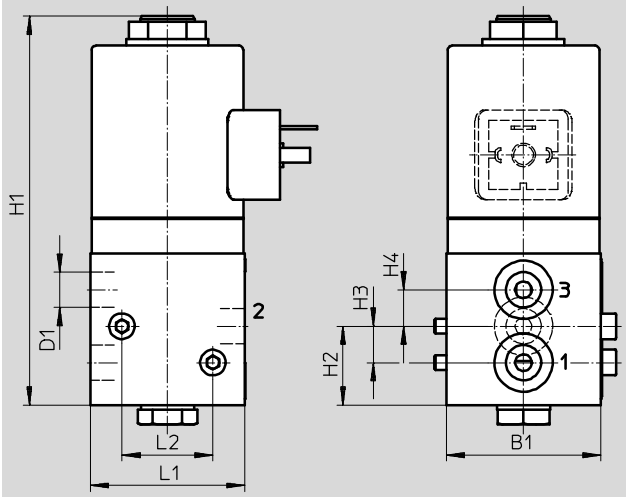
Materials

Sectional view



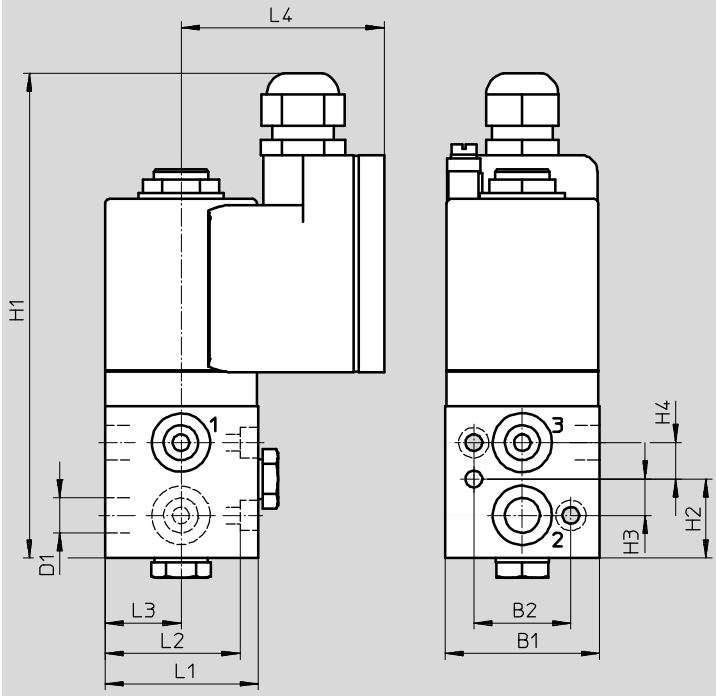
Solenoid valves		G¼ solenoid valve	NPT¼ solenoid valve	G¼ solenoid valve and NAMUR
1	Housing	Hard Ematal-anodised aluminium		
2	Seals	Nitrile rubber		
–	Note on materials	Contains PWIS (paint-wetting impairment substances), RoHS-compliant		

Dimensions Download CAD data ➔ **www.festo.com**



Type	B1	B2	D1	H1	H2	H3	H4	H5	H6	L1	L2
VOFD-LT-M32-MN-G14-1UK4-Ex4me	51	30	G¼	159.8	38	26	14	14	12	51	67
VOFD-LT-M32-MN-N14-1UK4-Ex4me	51	30	NPT¼	159.8	38	26	14	14	12	51	67

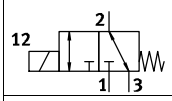
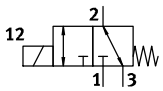
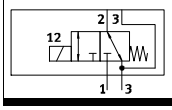
Dimensions Download CAD data ➔ **www.festo.com**



Type	B1	B2	D1	H1	H2	H3	H4	L1	L2	L3	L4
VOFD-LT-M32-MN-FG14-1UK4-Ex4me	51	32	NAMUR G¼	159.8	26	12	12	50.5	44.5	25	67

Solenoid valves VOFD

Technical data – 3/2-way valves, G¼

Ordering data					
Circuit symbol	Function	Pneumatic connection	Ex ignition protection type	Part No.	Type
Directly actuated poppet valve					
	3/2-way, closed, single solenoid	G¼	Ex emb II T6, T5	**562 884**	**VOFD-LT-M32-MN-G14-1UK4-Ex4me**
	3/2-way, closed, single solenoid	NPT¼	Ex emb II T6, T5	**562 885**	**VOFD-LT-M32-MN-N14-1UK4-Ex4me**
	3/2-way, closed, single solenoid	G¼ and NAMUR	Ex emb II T6, T5	**562 886**	**VOFD-LT-M32-MN-FG14-1UK4-Ex4me**

Solenoid coils VACC-S18

Technical data

FESTO

Voltage
24 V DC/AC

Temperature range
–20 … +60 °C

General technical data						
Type			VACC-S18-K4-1U-Ex4me [24 V DC/AC]	VACC-S18-K4-2U-Ex4me [110 V DC/AC]	VACC-S18-K4-3U-Ex4me [230 V DC/AC]	VACC-S18-K4-1UF-Ex4me [24 V DC/AC]
Actuation type			Electric			
Mounting position			Any			
Duty cycle		[%]	100			
Electrical connection			Terminal box, cable entry thread M20x1.5			
Internal fuse protection			–			Fuse
Manual override			None			
Switching position display			No			
Product weight		[g]	580			
Note on materials			Contains PWIS (paint-wetting impairment substances), RoHS-compliant			
Information on solenoid coil materials			Polyamide, steel			
Coil characteristics	DC voltage 24 V	[W]	3.5			
	AC voltage 24 V	[VA]	3			

Operating and environmental conditions			
Protection class			IP65
Permissible voltage fluctuations			–15 %/+10 %
Ambient temperature		[°C]	–20 … 60
ATEX category for gas			II 2G
ATEX category for dust			II 2D
Explosion ignition protection type for gas			Ex emb II T6, T5
Explosion ignition protection type for dust			Ex tD A21 IP65 T80°C, T95°C
Explosion-proof temperature rating		T80°C	-20°C <= Ta <= +50°C
		T95°C	-20°C <= Ta <= +60°C
Certificate issuing authority			PTB 08 ATEX 2033 X
CE mark (see declaration of conformity)			To EU Explosion Protection Directive (ATEX)
Corrosion resistance class CRC[1)]			4

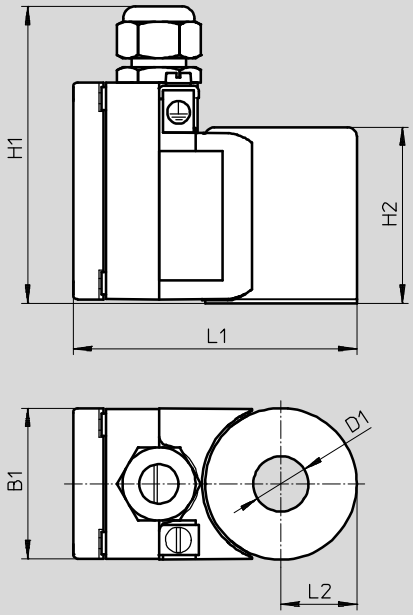
1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Materials	
Solenoid coils	
Housing	Steel, polyamide
Note on materials	RoHS-compliant, contains PWIS (paint-wetting impairment substances)

Solenoid coils VACC-S18

Technical data

Dimensions Download CAD data ➔ **www.festo.com**



Type	B1	D1 ∅	H1	H2	L1	L2
VACC-S18-K4-1U-Ex4me	50	18.2	100	58	95	25
VACC-S18-K4-2U-Ex4me	50	18.2	100	58	95	25
VACC-S18-K4-3U-Ex4me	50	18.2	100	58	95	25
VACC-S18-K4-1UF-Ex4me	50	18.2	100	58	95	25

Solenoid coils VACC-S18

Technical data

FESTO

Voltage
24 V DC/AC

Temperature range
–20 … +60 °C

General technical data					
Type			VACC-S18-K5-1U-Ex3D [24 V DC/AC]	VACC-S18-K5-2U-Ex3D [110 V DC/AC]	VACC-S18-K5-3U-Ex3D [230 V DC/AC]
Actuation type			Electric		
Mounting position			Any		
Duty cycle		[%]	100		
Electrical connection			Terminal box, cable entry thread NPT 1/2		
Manual override			None		
Switching position display			No		
Product weight		[g]	1,700		
Coil characteristics	DC voltage 24 V	[W]	2.5		
	AC voltage 24 V	[VA]	3.5		

Operating and environmental conditions		
Protection class		IP65
Permissible voltage fluctuations		–15 %/+10 %
Ambient temperature	[°C]	–20 … 60
Operating pressure range	[bar]	0 … 10
ATEX category for gas		II 2G
Explosion ignition protection type for gas		Ex d IIC T6, T5, T4
Explosion protection certification outside the EU		EPL Gb (BR), EPL Gb (CN), EPL Gb (RU), EPL Gc (BR), EPL Gc (CN), EPL Gc (RU)
CE mark (see declaration of conformity)		To EU Explosion Protection Directive (ATEX)
Corrosion resistance class CRC[1)]		4

1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Materials	
Solenoid coils	
Housing	Grey cast iron, wrought aluminium alloy
Note on materials	Contains PWIS (paint-wetting impairment substances), conforms to RoHS

Solenoid coils VACC-S18

Technical data

FESTO

- Voltage
  24 V DC/AC

- Temperature range
  –20 … +60 °C

General technical data					
Type			VACC-S18-K4-1U-Ex3D [24 V DC/AC]	VACC-S18-K4-2U-Ex3D [110 V DC/AC]	VACC-S18-K4-3U-Ex3D [230 V DC/AC]
Actuation type			Electric		
Mounting position			Any		
Duty cycle		[%]	100		
Electrical connection			Terminal box, cable entry thread M20x1.5		
Manual override			None		
Switching position display			No		
Product weight		[g]	1,700		
Coil characteristics	DC voltage 24 V	[W]	2.5		
	AC voltage 24 V	[VA]	3.5		

Operating and environmental conditions		
Protection class		IP65
Permissible voltage fluctuations		–15 %/+10 %
Ambient temperature	[°C]	–20 … 60
Operating pressure range	[bar]	0 … 10
ATEX category for gas		II 2G
Explosion ignition protection type for gas		Ex d IIC T6, T5, T4
Explosion protection certification outside the EU		EPL Gb (BR), EPL Gb (CN), EPL Gb (RU), EPL Gc (BR), EPL Gc (CN), EPL Gc (RU)
CE mark (see declaration of conformity)		To EU Explosion Protection Directive (ATEX)
Corrosion resistance class CRC[1)]		4

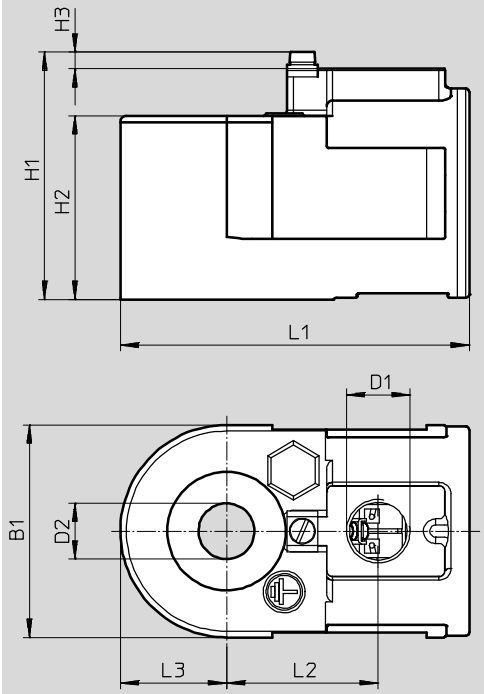
1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Materials	
Solenoid coils	
Housing	Grey cast iron, wrought aluminium alloy
Note on materials	Contains PWIS (paint-wetting impairment substances), conforms to RoHS

Solenoid coils VACC-S18

Technical data

Dimensions Download CAD data ➔ **www.festo.com**



Type	B1	D1	D2 ∅	H1	H2	H3	L1	L2	L3
VACC-S18-K4-1U-Ex3D	70	M20x1.5	18.2	82	60.5	6	115	50	35
VACC-S18-K4-2U-Ex3D	70	M20x1.5	18.2	82	60.5	6	115	50	35
VACC-S18-K4-3U-Ex3D	70	M20x1.5	18.2	82	60.5	6	115	50	35

Type	B1	D1	D2 ∅	H1	H2	H3	L1	L2	L3
VACC-S18-K5-1U-Ex3D	70	NPT 1/2	18.2	82	60.5	6	115	50	35
VACC-S18-K5-2U-Ex3D	70	NPT 1/2	18.2	82	60.5	6	115	50	35
VACC-S18-K5-3U-Ex3D	70	NPT 1/2	18.2	82	60.5	6	115	50	35

Solenoid coils VACC-S18

Technical data

FESTO

- Voltage
  24 V DC/AC

- Temperature range
  –20 … +60 °C

General technical data						
Type			VACC-S18-A1-1 [24 V DC]	VACC-S18-A1-1A [24 V AC]	VACC-S18-A1-2A [110 V AC]	VACC-S18-A1-3A [230 V AC]
Actuation type			Electric			
Mounting position			Any			
Duty cycle		[%]	100			
Electrical connection			Plug design to EN 175301-803, type A			
Manual override			None			
Switching position display			No			
Product weight		[g]	530			580
Coil characteristics	DC voltage 24 V	[W]	3.5	–	–	–
	AC voltage 24 V	[VA]	–	5	–	–

Operating and environmental conditions					
Type		VACC-S18-A1-1 [24 V DC]	VACC-S18-A1-1A [24 V AC]	VACC-S18-A1-2A [110 V AC]	VACC-S18-A1-3A [230 V AC]
Protection class		IP65			
CE mark (see declaration of conformity)		–		To EU Low Voltage Directive	
Permissible voltage fluctuations		–15 %/+10 %			
Ambient temperature	[°C]	–20 … 60			
Operating pressure range	[bar]	0 … 10			
Corrosion resistance class CRC[1)]		4			

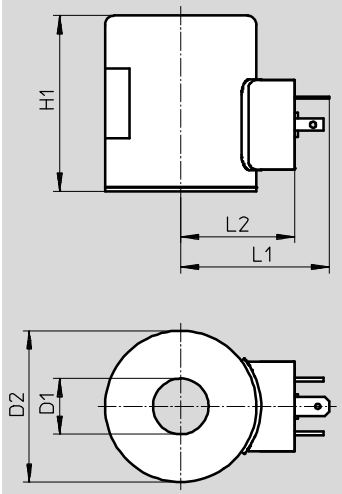
1) Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Materials	
Housing	Steel, polyamide
Note on materials	RoHS-compliant, contains PWIS (paint-wetting impairment substances)

Solenoid coils VACC-S18

Technical data

Dimensions Download CAD data ➔ **www.festo.com**

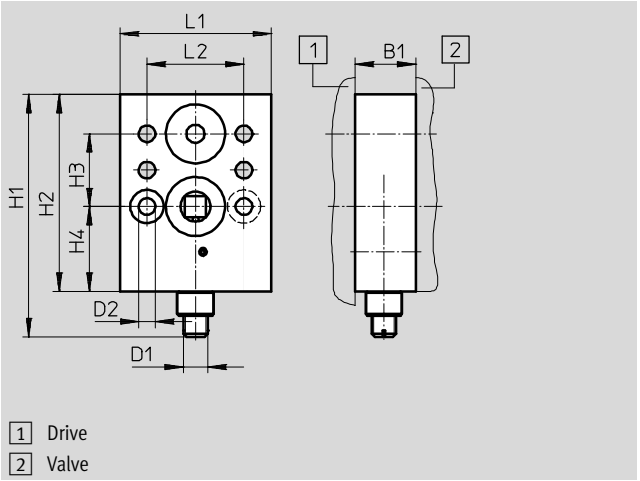


Type	D1 ∅	D2 ∅	H1	L1	L2
VACC-S18-A1-1	18.2	50	58	50	38
VACC-S18-A1-1A	18.2	50	58	50	38
VACC-S18-A1-2A	18.2	50	58	50	38
VACC-S18-A1-3A	18.2	50	58	50	38

Ordering data

		Part No.	Type
Ex-me coil			
		**562 897**	**VACC-S18-K4-1U-Ex4me**
		570 785	**VACC-S18-K4-1UF-Ex4me**
		562 898	**VACC-S18-K4-2U-Ex4me**
		562 899	**VACC-S18-K4-3U-Ex4me**
Ex-3D coil			
		**562 900**	**VACC-S18-K5-1U-Ex3D**
		562 901	**VACC-S18-K5-2U-Ex3D**
		562 902	**VACC-S18-K5-3U-Ex3D**
		562 903	**VACC-S18-K4-1U-Ex3D**
		562 904	**VACC-S18-K4-2U-Ex3D**
		562 905	**VACC-S18-K4-3U-Ex3D**
A1 coil			
		**562 906**	**VACC-S18-A1-1**
		562 907	**VACC-S18-A1-1A**
		562 908	**VACC-S18-A1-2A**
		562 909	**VACC-S18-A1-3A**

Flow control plate
Material: Manifold rail:
Wrought aluminium alloy
Contains PWIS (paint-wetting impairment substances), RoHS-compliant

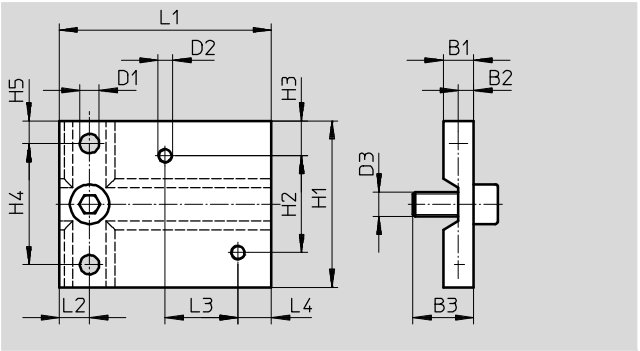


Dimensions [mm] and ordering data

B1	D1	D2	H1	H2	H3	H4	L1	L2	L3	CRC[1]	Part No.	Type
15	G¼	5.5	73	56	12	32	50	24	13	3	**563 401**	**VABF-S7-F1B5P1-F**

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Mounting plate
Material: Wrought aluminium alloy
Contains PWIS (paint-wetting impairment substances), RoHS-compliant

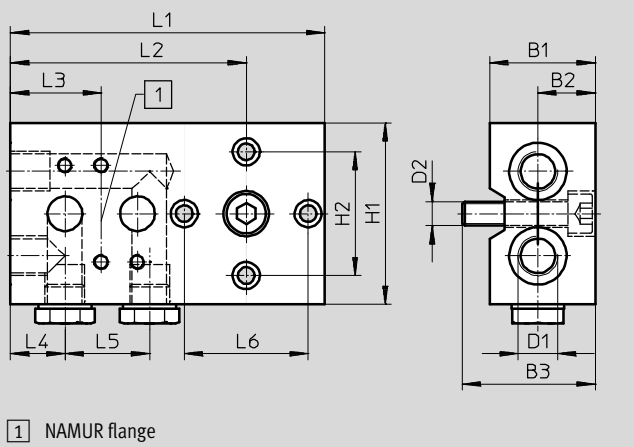


Dimensions [mm] and ordering data

B1	B2	B3	D1	D2	D3	H1	H2	H3	H4	H5	L1	L2	L3	L4	CRC[1]	Part No.	Type
10	5	20	6.4	M5	M8	55	32	11.5	40	7.5	70	10	24	11	3	**563 399**	**VAME-S7-P**

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Connection plate kit
Material:
Wrought aluminium alloy
Contains PWIS (paint-wetting impairment substances), RoHS-compliant

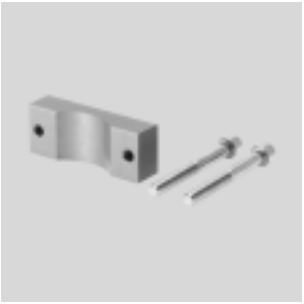


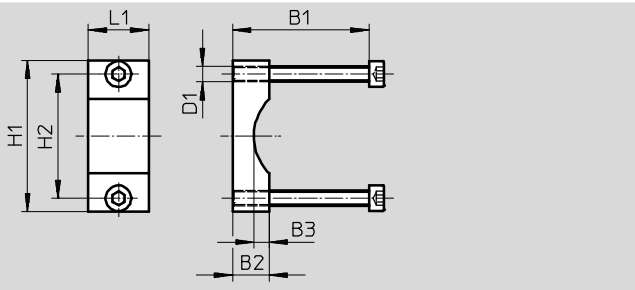
Dimensions [mm] and ordering data

B1	B2	B3	D1	D2	H1	H2	L1	L2	L3	L4	L5	L6	CRC[1]	Part No.	Type
35	19	44	G¼	M8	60	41	104	70	30	18	28	41	3	**563 396**	**VABF-S7-S-G14**

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Mounting bracket
Material: Wrought aluminium alloy
Contains PWIS (paint-wetting impairment substances), RoHS-compliant



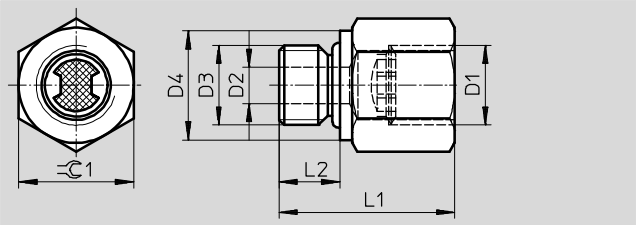


Dimensions [mm] and ordering data

B1	B2	B3	D1	H1	H2	L1	CRC[1]	Part No.	Type
45/65	12	5	M5	50	41	20	3	**563 403**	**VAME-S7-Y**

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Adapter with filter
Note on materials:
Contains PWIS (paint-wetting impairment substances), RoHS-compliant

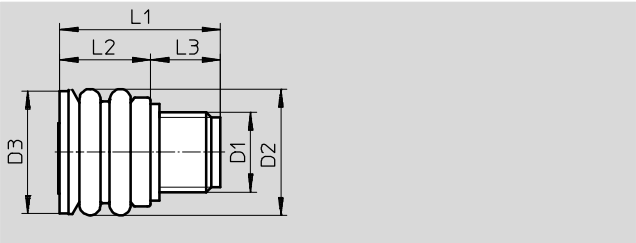


Dimensions [mm] and ordering data

D1	D2	D3	D4	L1	L2	⊂1	CRC[1)]	Part No.	Type
NPT¼	6	G¼	18	29	10	19	1	**563 397**	**NPFV-AF-G14-N14-MF**
G¼	6	G¼	18	29	10	19	1	**563 398**	**NPFV-AF-G14-G14-MF**

1) Corrosion resistance class 1 according to Festo standard 940 070
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Exhaust protection
Material:
Ethylene propylene rubber
Contains PWIS (paint-wetting impairment substances), RoHS-compliant

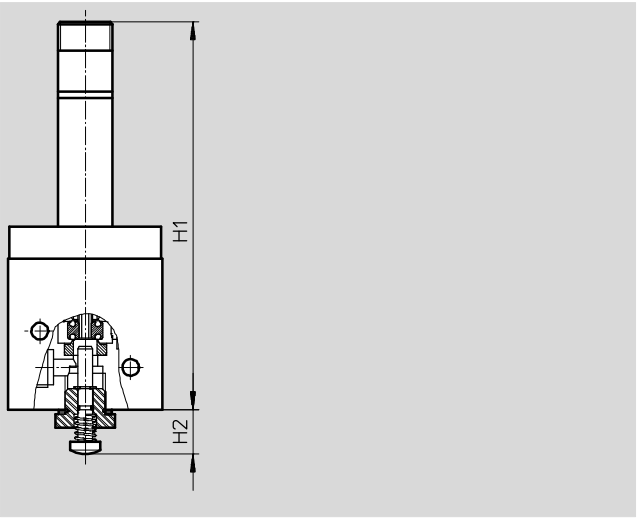


Dimensions [mm] and ordering data

D1	D2	D3	L1	L2	L3	CRC[1)]	Part No.	Type
G¼	21	20.5	26.5	15	11.5	3	**563 400**	**VABD-D3-SN-G14**

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Hand lever
Material:
Contains PWIS (paint-wetting impairment substances), RoHS-compliant

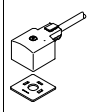


Dimensions [mm] and ordering data

H1	H2	CRC[1)]	Part No.	Type
128	14	3	**563 402**	**VAOH-S8**

1) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

Ordering data

		Part No.	Type
Cable			Technical data ➔ Internet: kmc
		**30 931**	**KMC-1-24 DC-2,5-LED**
		30 932	**KMC-1-230 AC-2,5**
		30 933	**KMC-1-24 DC-5-LED**
		30 934	**KMC-1-230 AC-5**
		30 935	**KMC-1-24-10-LED**
Plug socket with screw terminal technology			Technical data ➔ Internet: mssd
		**34 583**	**MSSD-C**