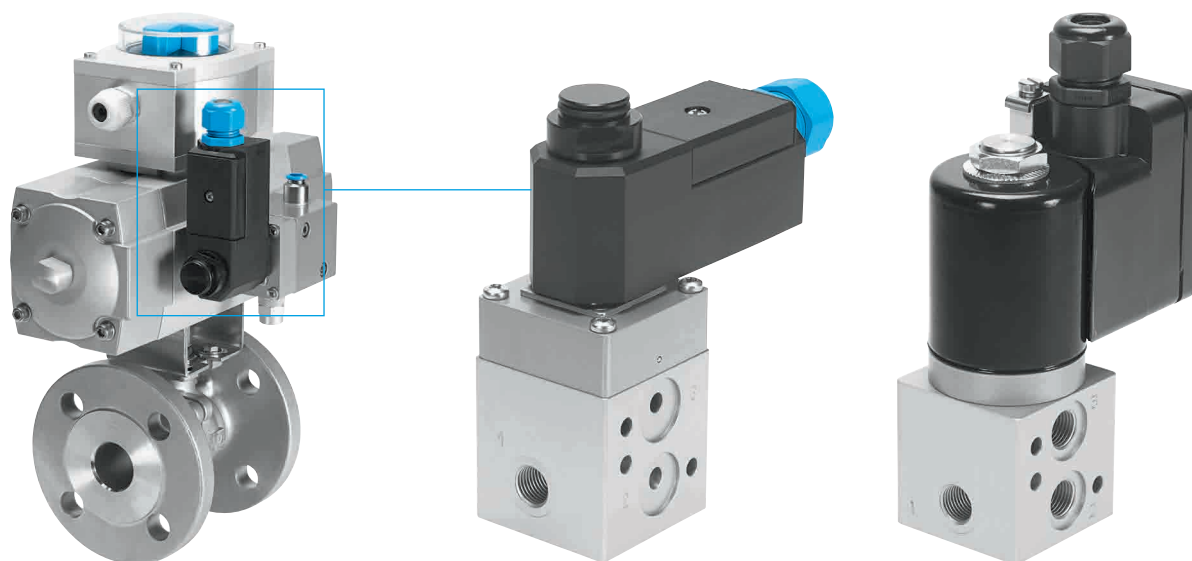




Extremely sturdy and corrosion-resistant Solenoid valves VOFC/VOFD and solenoid coils VACC

Intrinsically safe solenoid coil
VACC-S13-...-EX4A

INMETRO Ex NEPSI



Ex

- Category II 2 GD
- Type of ignition protection Ex ia
- INMETRO
- Ex NEPSI
- ATEX certification

Encapsulated solenoid coil
VACC-S13-...-EX4ME

INMETRO Ex NEPSI IEC IECEx



Ex

- Category II 2 GD
- Type of ignition protection Ex e mb
- INMETRO
- Ex NEPSI
- IEC Ex certification
- ATEX certification

Encapsulated solenoid coil VACC-S18-...-EX4ME

INMETRO Ex NEPSI



Ex

- Category II 2 GD
- Type of ignition protection Ex e mb
- INMETRO
- Ex NEPSI
- ATEX certification

Flameproof solenoid coil VACC-S18-...-EX4D

INMETRO Ex NEPSI IEC IECEx



Ex

- Category II 2 GD
- Type of ignition protection Ex db
- INMETRO
- Ex NEPSI
- IEC Ex certification
- ATEX certification

Flameproof solenoid coil VACC-S18-...-U2D

c UL US



- Class 1 Div 2
- Type of ignition protection Ex d
- cULus certification according to NEC 500

Selection and ordering

Check our electronic catalogue for the components and solutions we offer. → www.festo.de/xdk Or simply contact your Festo sales engineer, who will be happy to help you.

Solenoid valves VOFC/VOFD

FESTO

Number one choice as a control valve

Designed for the toughest demands – even in extreme environments
Certificates, expert opinions and testimonials demonstrate that the solenoid valves are suitable for the toughest demands when it comes to operational safety, availability and flexibility in use. Even outdoors and in difficult ambient conditions. The world's most widely recognised ignition protection types are offered: Ex e mb, Ex ia, Ex db und Ex d.

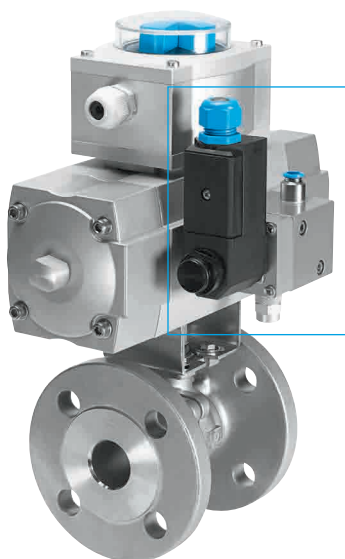
Reliable and safe – for reliable switching when needed

The high quality and resulting reliability of these solenoid valves increase the process safety of the entire system, helping to cut costs associated with failure and maintenance. The solenoid valves can be used in all kinds of applications and meet the highest safety standards (up to SIL3, explosion protection). This is backed by German Technical Control Board (TÜV) certificates up to SIL3 in accordance with IEC 61508.

SIL certified
according IEC 61508

Sturdy for use in harsh environments

- 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, which makes the valves extremely resistant to wear and abrasion and gives them first-class sliding qualities. This provides optimum protection against atmospheric and chemical influences.



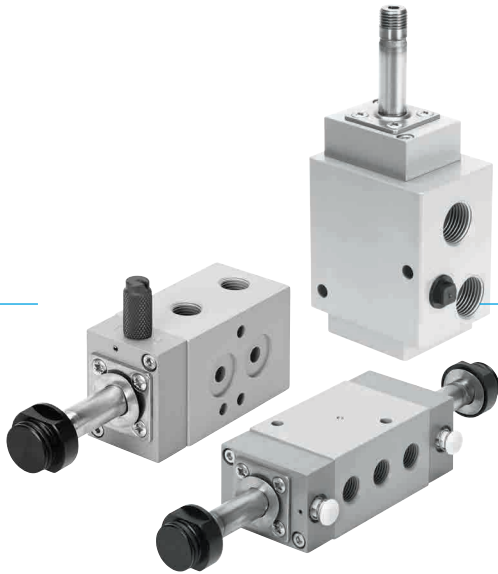
Solenoid valve VOFC

- Complete valve in combination with VACC-S13 coil or as a basic valve on its own
- Easy to combine via the configurator → Seite 8



Solenoid valve VOFD

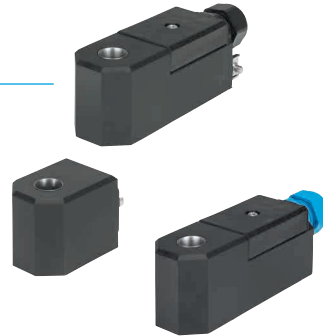
- Complete valve in combination with VACC-S18 coil or as a basic valve on its own
- Easy to combine via the configurator → Seite 6

**Basic valve VOFC**

- Pilot-controlled
- 3/2-, 5/2-way valves
- Ports G 1/4, NPT 1/4, G 1/2, NPT 1/2
- NAMUR port pattern, optionally with P duct

**Basic valve VOFD**

- Directly actuated
- 3/2-way valves
- Ports G 1/4, NPT 1/4, G 1/2, NPT 1/2
- NAMUR port pattern, NAMUR port pattern with P duct

**Coil VACC-S13**

- Alternating and direct voltage 12 V, 24 V, 60 V, 110 V, 230 V
- Types of ignition protection Ex e mb, Ex ia
- Power consumption 1.1 W, 1.8 W

**Coil VACC-S18**

- Alternating and direct voltage 24 V, 48 V, 60V, 110 V, 120 V, 230 V
- Types of ignition protection Ex e mb, Ex db, Ex d
- Power consumption 1.8 W, 2.5 W, 3.5 W, 7 W, 12 W

General

- The 3/2 and 5/2-way solenoid valves from the VOFC and VOFD series are intended for controlling and safety deactivation of pneumatic drives in potentially explosive areas of chemical and petrochemical plants. 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 ventilation function protects quarter turn actuators with spring return (single-acting cylinders and actuators) against contaminated ambient air and weather influences such as rain.
- The solenoid coils from the VACC series are the right coils for the basic valves VOFC and VOFD. The VACC-S13 coils are designed for valves VOFC and VOFD-L12T and cover the types of ignition protection Ex ia und Ex e mb.
- The VACC-S18 coils fit the VOFD basic valves (except VOFD-L12T) and cover the types of ignition protection Ex e mb and Ex db. Several local and regional certifications are available.



Solenoid valves VOFC/VOFD / solenoid coils VACC – Overview

FESTO

Basic valves VOFD

Nominal width 10.0 mm



VOFD-L100T-...

- Ports: G 1/2, NPT 1/2, NAMUR
- Pressure range: 0 ... 12 bar
- Flow rate max. 1900 l/min
- Material: Aluminium treated with Ematal
- Temperature range: -25 ... +60°C

Solenoid coils VACC

For 18 mm armature guide tube

VACC-S18-...-A1...

- Electrical connection: Plug pattern type A, to EN 175301



VACC-S18-...-K4...ME

- Electrical connection: Cable fitting, metric, M20x1.5
- Fuse optional
- Encapsulation, enhanced safety



VACC-S18-...-K4/K5...EX4D/U2D

- **K4:** Electrical connection: Cable fitting, metric, M20x1.5
- **K5:** Electrical connection: Cable fitting, NPT 1/2
- Flameproof enclosure



Nominal width 5.0 mm



VOFD-L50T-...-R1

- **Material: stainless steel**
- Ports: G 1/4, NPT 1/4



VOFD-L50T-...

- **Material: Aluminium treated with Ematal**
- Function: 3/2-way
- Ports: G 1/4, NPT 1/4, NAMUR, NAMUR with P port
- Pressure range: 0 ... 10 bar
- Flow rate: max. 490 l/min
- Temperature range: -25 ... +60°C

For 18 mm armature guide tube

VACC-S18-...-A1...

- Electrical connection: Plug pattern type A, to EN 175301



VACC-S18-...-K4...ME

- Electrical connection: Cable fitting, metric, M20x1.5
- Fuse optional
- Encapsulation, enhanced safety



VACC-S18-...-K4/K5...EX4D/U2D

- **K4:** Electrical connection: Cable fitting, metric, M20x1.5
- **K5:** Electrical connection: Cable fitting, NPT 1/2
- Flameproof enclosure



Nominal width 3.5 mm



VOFD-L35T-...-R1...

- **Material: stainless steel**
- Ports: G 1/4 or NPT 1/4, NAMUR, NAMUR with P port
- Pressure range: 0 ... 8 bar
- Flow rate: max. 330 l/min
- Temperature range: -50 ... +60°C



VOFD-L35T-...

- **Material: Aluminium treated with Ematal**
- Ports: G 1/4 or NPT 1/4, NAMUR, NAMUR with P port
- Pressure range: 0 ... 8 bar
- Flow rate: max. 330 l/min
- Temperature range: -25 ... +60°C

For 18 mm armature guide tube

VACC-S18-...-A1...

- Electrical connection: Plug pattern type A, to EN 175301



VACC-S18-...-K4...ME

- Electrical connection: Cable fitting, metric, M20x1.5
- Fuse optional
- Encapsulation, enhanced safety



VACC-S18-...-K4/K5...EX4D/U2D

- **K4:** Electrical connection: Cable fitting, metric, M20x1.5
- **K5:** Electrical connection: Cable fitting, NPT 1/2
- Flameproof enclosure



Nominal width 1.2 mm



VOFD-L12T-...

- Not via the configurator

For 13 mm armature guide tube

VACC-S13-...

- Solenoid coils → Seite 10

Selection and ordering data

Basic valves VOFD → Seite 6

Selection and ordering data

Solenoid coils VACC-S13, VACC-S18 → Seite 10

Solenoid valves VOFC / Solenoid coils VACC – Overview

FESTO

Basic valves VOFC

Piston spool valves



VOFC-L-...-SG14/SN142

- **Material: Aluminium treated with Ematal**
- Pneumatically piloted
- Ports: G 1/4, NPT 1/4; NAMUR

VOFC-L-...-F19/F19A...

- **Material: Aluminium treated with Ematal**
- Design: Piston spool valve
- Function: 3/2-, 5/2-way, mono-/bistable
- Ports: G 1/4; NAMUR
- Pressure range: 2.5 ... 8 bar
- Flow rate: max. 1038 l/min
- Manual override; none, non-detenting or detenting

Solenoid coils VACC

For 13 mm armature guide tube

For VOFC-L-...-F19: VACC-S13...EX4ME

- Electrical connection: Cable fitting, metric, M20x1.5
- Type of ignition protection: Ex e mb
- Encapsulation, enhanced safety



For VOFC-L-...-F19A: VACC-S13...EX4A

- Electrical connection: Cable fitting, metric, M20x1.5
- Type of ignition protection: Ex ia
- Intrinsically safe



VACC-S13-18...

- Electrical connection: Plug pattern type A, to EN 175301
- IP65



Poppet valves



VOFC-LT-...-R1

- **Material: stainless steel**
- Ports: G 1/4, NPT 1/4, G 1/2, NPT 1/2



VOFC-LT-...F19/F19A...

- **Material: Aluminium treated with Ematal**
- Design: poppet valve
- Function: 3/2-way
- Port: G 1/4 or NPT 1/4, G 1/2, NPT 1/2, NAMUR with P port 1/4, NAMUR 1/2
- Pressure range: (0)1 ... 8 bar
- Flow rate: max. 2868 l/min
- Temperature: -25 ... +60°C

For 13 mm armature guide tube

For VOFC-L-...-F19: VACC-S13...EX4ME

- Electrical connection: Cable fitting, metric, M20x1.5
- Type of ignition protection: Ex e mb
- Encapsulation, enhanced safety



For VOFC-L-...-F19A: VACC-S13...EX4A

- Electrical connection: Cable fitting, metric, M20x1.5
- Type of ignition protection: Ex ia
- Intrinsically safe



VACC-S13-18...

- Electrical connection: Plug pattern type A, to EN 175301
- IP65



Poppet valves



VOFC-...-P3...

- **Material: Aluminium treated with Ematal**
- Low-power pilot control
- Pre-assembled pilot system
- Suitable for control via the DCS system or via PROFIBUS PA
- Power consumption: > 100 mW for DCS systems or > 10 mW for PROFIBUS PA
- Type of ignition protection: Ex ia

Selection and ordering data

Basic valves VOFC → Seite 8

Selection and ordering data

Solenoid coils VACC-S13 → Seite 10

Solenoid valves VOFD – Basic valves

FESTO

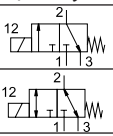
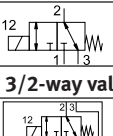
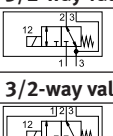
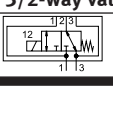
Order code – Basic valves

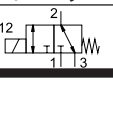
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VOFD	-	L	T	-	M	N	-	-	-	-	-	-	-

001	Type code
VOFD	Solenoid valve, series D
002	Valve type
L	In-line valve
003	Nominal width
12	1.2 mm
35	3.5 mm
40	4 mm
50	5 mm
100	10 mm
004	Design principle
T	Poppet valve
005	Valve function
M32	3/2-way valve, normally closed or open
M32A	3/2-way valve, normally closed, semi-automatic
006	Reset method for monostable valves
M	Mechanical spring
007	Pilot air
N	None
008	Manual override
-	None
H	Non-detenting
Y	Detenting without accessories
009	Pneumatic port
G12	G1/2
G14	G1/4
N12	NPT1/2

N14	NPT1/4
FG12	Flange G1/4, ports G1/2 (NAMUR)
FG14	Flange G1/4, ports G1/4 (NAMUR)
FGP14	Flange G 1/4, ports G 1/4 and additional P port (NAMUR)
010	Exhausting
-	No fitting
UE	Quick exhaust function
U6	With exhaust protection
011	Pressure range
5	0 ... 5 bar
6	0 ... 6 bar
7	0 ... 7 bar
8	0 ... 8 bar
10	0 ... 10 bar
12	0 ... 12 bar
012	Temperature range
-	Standard
T6	Low temperature (-50 ... +60°C)
013	Corrosion protection
-	Standard
R1	Stainless steel
014	Valve pilot control interface
F10	Electric with armature guide tube for solenoid coil 18 mm
F19	Electric with armature guide tube for solenoid coil 13 mm
F19A	Electric with armature guide tube for solenoid coil, 13 mm, intrinsically safe

Ordering data – Basic valves

Symbol	Part No.	Type code
3/2-way valve, closed, monostable, G1/4		
	3013904	VOFD-L12T-M32-MN-G14-8-F19
	3014556	VOFD-L12T-M32-MN-G14-8-F19A
	4514997	VOFD-L50T-M32-MN-G14-10-F10
	4515019	VOFD-L50T-M32-MN-G14-10-R1-F10
3/2-way valve, closed, monostable, G1/4 and NAMUR		
	4514999	VOFD-L50T-M32-MN-FG14-10-F10
3/2-way valve, closed, monostable, NAMUR with P port		
	4515000	VOFD-L50T-M32-MN-FGP14-10-F10

Symbol	Part No.	Type code
3/2-way valve, closed, monostable, NPT1/4		
	4514998	VOFD-L50T-M32-MN-N14-10-F10
	4515018	VOFD-L50T-M32-MN-N14-10-R1-F10

Solenoid valves VOFD – Variants

FESTO

Order code – Variants

001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020
VOFD	-	L	T	-	M	N	-	-	-	-	-	-	-	-	-	-	-	-	-

015	Power consumption
-	None
18	1.8 W
25	2.5 W
35	3.5 W
70	7 W
120	12 W

016	Nominal operating voltage
-	None
1A	24 V AC, 50/60 Hz
20	110 V AC/50 ... 60 Hz
3A	220 V AC/50 ... 60 Hz
1U	24 V DC and AC
2U	110 V DC and AC
3U	220 V DC and AC
7U	48 V DC and AC
16U	120 V DC and AC
27U	60 V DC and AC
1	24 V DC
3	230 V DC
7	48 V DC
16	120 V DC
27	60 V DC

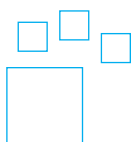
017	Electrical connection
-	None
A1	Port pattern type A, to EN 175301
K4	Cable fitting, metric
K5	Cable fitting NPT

018	Circuitry
-	None
F	With fuse

019	Certification
-	None
EX4	ATEX category II 2GD
U2	cULus, hazardous environment, USA and Canada (NEC 500)

020	Type of ignition protection
-	None
O	Intrinsically safe
D	Flameproof enclosure
ME	Encapsulation, enhanced safety

Ordering data – Variants



Configurable product

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

The configurator can be found under
 ➔ www.festo.com/catalogue/...

Enter the configuration part number in the search field:

- 2956784 VOFD-L35T
- 3212962 VOFD-L50T
- 2964753 VOFD-L100T

Accessories – Solenoid coils VACC-S13 for armature guide tube 13 mm and ACC-S18 for 18 mm

Selection and ordering ➔ Seite 10

Solenoid valves VOFC – Basic valves

FESTO

Order code – Basic valves

001	002	003	004	005	006	007	008	009	010	011	012	013
VOFC	-	L	T	-	-	-	-	-	-	-	-	-

001	Type code
VOFC	Solenoid valve
002	Valve type
L	In-line valve
003	Nominal width
-	Standard
004	Design principle
-	Piston spool
T	Poppet valve
005	Valve function
B52	5/2-way valve, bistable
M52	5/2-way valve, monostable
M32C	3/2-way valve, normally closed
006	Reset method for monostable valves
-	None
M	Mechanical spring
007	Pilot air
-	Internal
C	Internal/external
Z	External
008	Manual override
-	None
H	Non-detenting (resetting)
Y	Detenting
009	Pneumatic port
G12	G $\frac{1}{2}$
G14	G $\frac{1}{4}$

N12	NPT $\frac{1}{2}$
N14	NPT $\frac{1}{4}$
FG12	Flange G $\frac{1}{4}$, ports G $\frac{1}{2}$
FG13	Flange G $\frac{1}{2}$, ports G $\frac{1}{2}$
FG14	Flange G $\frac{1}{4}$, ports G $\frac{1}{4}$
FN12	Flange NPT $\frac{1}{4}$, ports NPT $\frac{1}{2}$
FN13	Flange NPT $\frac{1}{2}$, ports NPT $\frac{1}{2}$
FN14	Flange NPT $\frac{1}{4}$, ports NPT $\frac{1}{4}$
FGP14	Flange G $\frac{1}{4}$, ports G $\frac{1}{4}$ and additional pneumatic connection
FNP14	Flange NPT $\frac{1}{4}$, ports NPT $\frac{1}{4}$ and additional pneumatic connection
010	Supply port version
-	Standard
PF	With particle filter
NPF	With particle filter and connecting thread NPT $\frac{1}{4}$
011	Exhaust
-	No fitting
U6	With exhaust protection
012	Corrosion protection
-	Standard
R1	Stainless steel
013	Valve pilot control interface
P3	Interface for pilot nozzle/baffle plate
F19	Electric with armature guide tube for solenoid coil 13 mm
F19A	Electric with armature guide tube for solenoid coil, 13 mm, intrinsically safe
SG14	Interface with thread G $\frac{1}{4}$
SN14	Interface with thread NPT $\frac{1}{4}$

Ordering data – Basic valves

Symbol	Part No.	Type code
3/2-way valve, poppet valve, monostable, G$\frac{1}{4}$ NAMUR		
	4514738	VOFC-LT-M32C-M-FG14-F19
	4514739	VOFC-LT-M32C-M-FG14-F19A
	4514744	VOFC-LT-M32C-MC-FGP14-F19
	4514745	VOFC-LT-M32C-MC-FGP14-F19A
3/2-way valve, poppet valve, monostable, G$\frac{1}{4}$ sleeve		
	4514740	VOFC-LT-M32C-MC-G14-F19
	4514741	VOFC-LT-M32C-MC-G14-F19A
	4514742	VOFC-LT-M32C-MC-N14-F19
	4514743	VOFC-LT-M32C-MC-N14-F19A
3/2-way valve, poppet valve, monostable, G$\frac{1}{2}$ NAMUR		
	4514746	VOFC-LT-M32C-M-FG12-F19
	4514747	VOFC-LT-M32C-M-FG12-F19A
	4527268	VOFC-LT-M32C-MC-FG13-F19
	4527269	VOFC-LT-M32C-MC-FG13-F19A
3/2-way valve, poppet valve, monostable, G$\frac{1}{2}$ sleeve		
	4514748	VOFC-LT-M32C-MC-G12-F19
	4514749	VOFC-LT-M32C-MC-G12-F19A

Symbol	Part No.	Type code
5/2-way valve, piston spool, monostable, G$\frac{1}{4}$ NAMUR		
	4514923	VOFC-L-M52-M-FG14-F19
	4514924	VOFC-L-M52-M-FG14-F19A
5/2-way valve, piston spool, monostable, G$\frac{1}{4}$ sleeve		
	4514925	VOFC-L-M52-M-G14-F19
	4514926	VOFC-L-M52-M-G14-F19A
5/2-way valve, piston spool, bistable, G$\frac{1}{4}$, NAMUR		
	4514929	VOFC-L-B52-FG14-F19
	4514930	VOFC-L-B52-FG14-F19A
	4514927	VOFC-L-B52-G14-F19
	4514928	VOFC-L-B52-G14-F19A

Solenoid valves VOFC – Variants

FESTO

Order code – Basic valves

001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019
VOFC	-	L	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

014	Power consumption
–	None
11	1.1 W
18	1.8 W
0.4	40 mW
0.09	9 mW

015	Nominal operating voltage
–	None
1U	24 V DC and AC
2U	110 V DC and AC
3U	230 V DC and AC
1	24 V DC
27	60 V DC

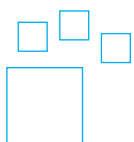
016	Electrical connection
–	None
A1	Plug pattern type A, to EN 175301
K4	Cable connector, metric

017	Circuitry
–	None
F	Fuse

018	EU certification
–	None
EX4	II 2 GD

019	Type of ignition protection
–	None
O	Intrinsically safe
ME	Encapsulation, enhanced safety

Ordering data – Variants



Configurable product

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

The configurator can be found under

→ www.festo.com/catalogue/...

Enter the configuration part number in the search field:

- 3344863 VOFC-L, piston spool
- 2868687 VOFC-LT, poppet valve

Accessories – Solenoid coils VACC-S13 for armature guide tube 13 mm

Selection and ordering → Seite 10

Solenoid coils VACC-S13, VACC-S18

FESTO

Type code – Solenoid coils VACC-S13 for armature guide tube 13 mm and VACC-S18 for 18 mm

001	002	003	004	005	006	007	008
VACC	-		-		-		

001	Type code
VACC	Solenoid coil

002	Solenoid coil type
S13	Solenoid coil, for 13 mm armature guide tube
S18	Solenoid coil, for 18 mm armature guide tube

003	Power consumption
11	1.1 W
18	1.8 W
25	2.5 W
35	3.5 W
70	7 W
120	12 W

004	Electrical connection
A1	Plug pattern type A, to EN 175301
K4	Cable fitting, metric
K5	Cable fitting NPT

005	Operating voltage
1A	24 V AC, 50/60 Hz
2A	110 V AC/50 ... 60 Hz
3A	230 V AC/50 ... 60 Hz
1U	24 V DC and AC
2U	110 V DC and AC
3U	230 V DC and AC

7U	48 V DC and AC
16U	120 V DC and AC
27U	60 V DC and AC
1	24 V DC
3	230 V DC
7	48 V DC
16	120 V DC
27	60 V DC

006	Circuitry
-	None
F	With fuse

007	Certification
-	None
EX4	ATEX category II 2GD
U2	Hazardous environment for USA and Canada (to NEC 500) cULus

008	Type of ignition protection
-	None
O	Intrinsically safe
D	Flameproof enclosure
ME	Encapsulation, enhanced safety

Ordering data – Solenoid coils

Armature guide tube 13 mm				
Characteristic coil data		Part No.	Type code	Description
For solenoid valve VOFC with F19 armature guide tube (Selection and ordering ➔ Seite 8)				
	No explosion protection			
24 V DC: 1.8 W		562889	VACC-S13-18-A1-1	Plug connector to EN 175301-803 type A, IP65
24 V DC: 1.8 W; 24 V AC: 40/65 Hz, power 1.8 VA		562890	VACC-S13-18-A1-1U	
110 V DC: 1.8 W; 110 V AC: 40/65 Hz, Power 1.8 VA		562891	VACC-S13-18-A1-2U	
230 V DC: 1.8 W; 230 V AC: 40/65 Hz, power 1.8 VA		562892	VACC-S13-18-A1-3U	
	Type of ignition protection Ex e mb			
24 V DC: 1.8 W; 24 V AC: 40/65 Hz, power 1.8 VA		562893	VACC-S13-18-K4-1U-EX4ME	Terminal box, threaded cable gland M20x1.5, IP64 with socket (IP65 with internal fuse)
24 V DC with fuse: 1.8 W; 24 V AC: 40/65 Hz, power 1.8 VA		570784	VACC-S13-18-K4-1UF-EX4ME	
60 V AC: 40/65 Hz, power 1.8 VA; 60 V DC:1.8 W		8040578	VACC-S13-18-K4-27U-EX4ME	
110 V DC: 1.8 W; 110 V AC: 40/65 Hz, Power 1.8 VA		562894	VACC-S13-18-K4-2U-EX4ME	
230 V DC: 1.8 W; 230 V AC: 40/65 Hz, power 1.8 VA		562895	VACC-S13-18-K4-3U-EX4ME	
For solenoid valve VOFC with F19A armature guide tube (Selection and ordering ➔ Seite 8)				
	Type of ignition protection Ex ia			
14 ... 32 V DC: 0.22 ... 1.1 W		562896	VACC-S13-11-K4-1-EX4A	Terminal box, threaded cable gland M20x1.5, IP64 with socket (IP65 with internal fuse)

Solenoid coils VACC-S13, VACC-S18

FESTO

Ordering data – Solenoid coils

Armature guide tube 18 mm				
Characteristic coil data		Part No.	Type code	Description
For solenoid valve VOFD-L50T with nominal width 5 mm (Auswahl und Bestellangaben ➔ Seite 6)				
	No explosion protection			
24 V DC: 3.5 W		562906	VACC-S18-35-A1-1	Plug connector to EN 175301-803, type A, IP65
24 V AC: 50/60 Hz, power 3.5 VA		562907	VACC-S18-35-A1-1A	
110 V AC: 50/60 Hz, power 3.5 VA		562908	VACC-S18-35-A1-2A	
230 V AC: 50/60 Hz, power 3.5 VA		562909	VACC-S18-35-A1-3A	
	Type of ignition protection Ex e mb			
24 V DC: 3.5 W; 24 V AC: 50/60 Hz, power 3.5 VA		562897	VACC-S18-35-K4-1U-EX4ME	Terminal box, threaded cable gland M20x1.5, IP65 with socket
24 V DC with fuse: 3.5 W; 24 V AC: 50/60 Hz, power 3.5 VA		570785	VACC-S18-35-K4-1UF-EX4ME	
110 V AC: 50/60 Hz, power 3.5 VA; 110 V DC: 3.5 W		562898	VACC-S18-35-K4-2U-EX4ME	
230 V AC: 50/60 Hz, power 3.5 VA; 230 V DC: 3.5 W		562899	VACC-S18-35-K4-3U-EX4ME	
	Type of ignition protection Ex db			
24 V DC: 2.5 W; 24 V AC: 40/65 Hz, power 2.5 VA		562903	VACC-S18-25-K4-1U-EX4D	Terminal box, threaded cable gland M20x1.5, IP65 with socket
110 V AC: 40/65 Hz, power 2.5 VA; 110 V DC: 2.5 W		562904	VACC-S18-25-K4-2U-EX4D	
230 V AC: 40/65 Hz, power 2.5 VA; 230 V DC: 2.5 W		562905	VACC-S18-25-K4-3U-EX4D	
24 V DC: 2.5 W; 24 V AC: 40/65 Hz, power 2.5 VA		562900	VACC-S18-25-K5-1U-EX4D	Terminal box, threaded cable gland NPT 1/2, IP65
110 V AC: 40/65 Hz, power 2.5 VA; 110 V DC: 2.5 W	562901	VACC-S18-25-K5-2U-EX4D		
230 V AC: 40/65 Hz, power 2.5 VA; 230 V DC: 2.5 W	562902	VACC-S18-25-K5-3U-EX4D		
For solenoid valve VOFD-L35T-M32 with nominal width 3.5 mm and solenoid valve VOFD-L100T with nominal width 10 mm (Selection and ordering data ➔ Seite 6)				
	No explosion protection			
24 V DC: 12 W		8040580	VACC-S18-120-A1-1	Plug connector to EN 175301-803 type A, IP65
24 V AC: 50/60 Hz, power 12 VA		8040890	VACC-S18-120-A1-1A	
110 V AC: 50/60 Hz, power: 12 VA		8040582	VACC-S18-120-A1-2A	
230 V AC: 50/60 Hz, power 12 VA		8040584	VACC-S18-120-A1-3A	
	Type of ignition protection Ex e mb			
24 V AC: 50/60 Hz, power 12 VA; 24 V DC: 12 W		3536527	VACC-S18-120-K4-1U-EX4ME	Terminal box, threaded cable gland M20x1.5, IP65 with socket
24 V AC with fuse: 50/60 Hz, power 12 VA; 24 V DC: 12 W		3535840	VACC-S18-120-K4-1UF-EX4ME	
48 V DC: 12 W		3536573	VACC-S18-120-K4-7-EX4ME	
60 V DC: 12 W		3536569	VACC-S18-120-K4-27-EX4ME	
110 V AC: 50/60 Hz, power 12 VA; 110 V DC: 12 W		3536565	VACC-S18-120-K4-2U-EX4ME	Terminal box, threaded cable gland NPT 1/2, IP65
230 V AC: 50/60 Hz, power 12 VA; 230 V DC: 12 W		3536568	VACC-S18-120-K4-3U-EX4ME	
	Type of ignition protection Ex db			
24 V AC: 40/65 Hz, power 7 VA; 24 V DC: 7 W		3504563	VACC-S18-70-K4-1U-EX4D	Terminal box, threaded cable gland M20x1.5, IP65 with socket
48 V AC: 40/65 Hz, power 7 VA; 48 V DC: 7 W		3504574	VACC-S18-70-K4-7U-EX4D	
120 V AC: 40/65 Hz, power 7 VA; 120 V DC: 7 W		3504609	VACC-S18-70-K4-16U-EX4D	
230 V AC: 40/65 Hz, power 7 VA; 230 V DC: 7 W		3504639	VACC-S18-70-K4-3U-EX4D	Terminal box, threaded cable gland NPT 1/2, IP65
24 V AC: 40/65 Hz, power 7 VA; 24 V DC: 7 W	3546549	VACC-S18-70-K5-1U-EX4D		
48 V AC: 40/65 Hz, power 7 VA; 48 V DC: 7 W	3546588	VACC-S18-70-K5-7U-EX4D		
110 V AC: 40/65 Hz, power 7 VA; 110 V DC: 7 W	3546625	VACC-S18-70-K5-2U-EX4D		
230 V AC: 40/65 Hz, power 7 VA; 230 V DC: 7 W	3546662	VACC-S18-70-K5-3U-EX4D		
	Type of ignition protection Ex d			
24 V DC: 7 W		3546816	VACC-S18-70-K5-1-U2D	Terminal box, threaded cable gland NPT 1/2, IP65
48 V DC: 7 W		3546876	VACC-S18-70-K5-7-U2D	
125 V DC: 7 W		3546913	VACC-S18-70-K5-16-U2D	
220 V DC: 7 W		3546949	VACC-S18-70-K5-3-U2D	
For solenoid valve VOFD-L35T-M32A with nominal width 3.5 mm (Selection and ordering data ➔ Seite 6)				
	Type of ignition protection Ex db			
230 V AC: 50/60 Hz, power 1.8 VA		3504741	VACC-S18-18-K4-3A-EX4D	Terminal box, threaded cable gland M20x1.5, IP65 with socket
230 V AC: 50/60 Hz, power 1.8 VA		3546734	VACC-S18-18-K5-3A-EX4D	

For security in your processes: solenoid valves from Festo

Maximum safety when it comes to SIL and explosion protection

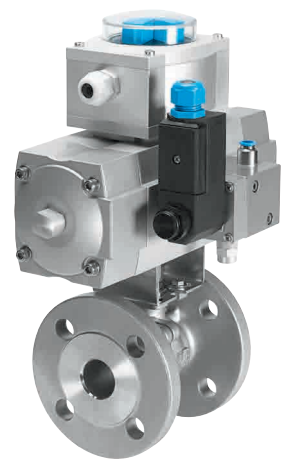
The solenoid valves VOFD and VOFC can be widely used and meet the highest safety standards (up to SIL3, explosion protection). Leading chemical, petrochemical and pharmaceutical companies use these valves as control valves all over the world.

Maximum system availability when it comes to switching reliability

60 years of valve expertise make themselves felt: the quality is simply unbeatable. Even in outdoor installations or difficult ambient conditions.

Maximum reliability when it comes to replacement

Wherever your production systems are in the world, you can rely on Festo products and solutions being available in all global markets thanks to Festo's sales and service network. You will have access to it all, from A to Z – not least because you can obtain everything from a single source. A positive side-effect is that your purchasing and logistics will become simpler and easier.



Convinced? We look forward to hearing from you!

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