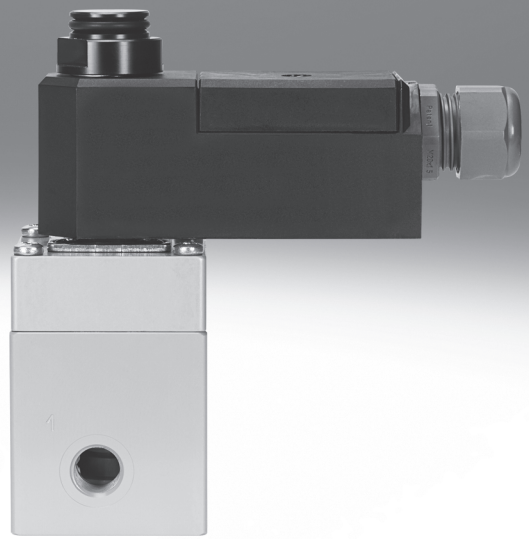
Valve series VOFC

FESTO



Solenoid valves VOFC

Features

General remarks

- The valves of series VOFC are special 3/2-way and 5/2-way valves for process automation and applications in chemical and petrochemical installations, where they are frequently used as pilot valves for butterfly valves and actuators. Their sturdy design and high resistance to corrosion make these valves suitable for outdoor use under harsh ambient conditions.
- With the flange pattern to NAMUR, the solenoid valves are particularly suitable for quarter turn actuators. The integrated spring chamber rebreather function protects quarter turn actuators with spring return (single-acting cylinders and actuators) against contaminated ambient atmospheres and weather influences such as rain.
- Approved by the German Technical Control Board (TÜV) up to SIL-3

Function, design

- 3/2-way or 5/2-way, single or double solenoid, depending on the type
- Pilot-actuated piston spool and piston poppet valves

Robust

- The surface of the valve housing is Ematal coated. This treatment involves converting the aluminium surface into a very hard aluminium oxide layer with titanium oxide intercalations. This treatment 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. The media resistance of the product can be found under ➔ www.festo.com.

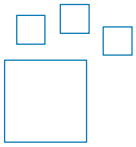
Flexible functionality

- Changeover between internal and external pilot air via automatic OR valve
- Suitable for vacuum

Economical

- Port pattern to NAMUR for direct mounting on the actuator and the G and NPT threaded connections in a valve housing

Ordering data – Product options



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

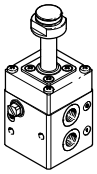
The configurator can be found under Products on the DVD or at
➔ **www.festo.com/catalogue/...**

Part No.	Type
3344863	VOFC-L
2868687	VOFC-LT

Solenoid valves VOFC

Key features

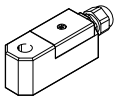
VOFC - Basic valves



- 3/2, 5/2-way valves
- Ports G¼, ¼NPT, G½, ½ NPT, flange ports
- Port pattern to NAMUR, optionally with P duct

➔ Page 8

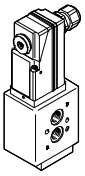
VACC - S13 coils



- AC and DC voltage 24 V, 60 V, 110 V, 230 V
- Types of ignition protection EX EMB II, EX IA IIC

➔ Page 53

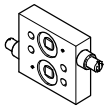
VOFC - Solenoid valves



- Combination of basic valve VOFC and P3 nozzle/baffle pilot control system
- 3/2, 5/2-way valves
- Types of ignition protection EX ia

➔ Page 21, 34

VOFC - Accessories



- Flow control plate
- Sub-base
- Mounting plate
- Connection kit
- Adapter with filter
- Mounting bracket
- Manual override

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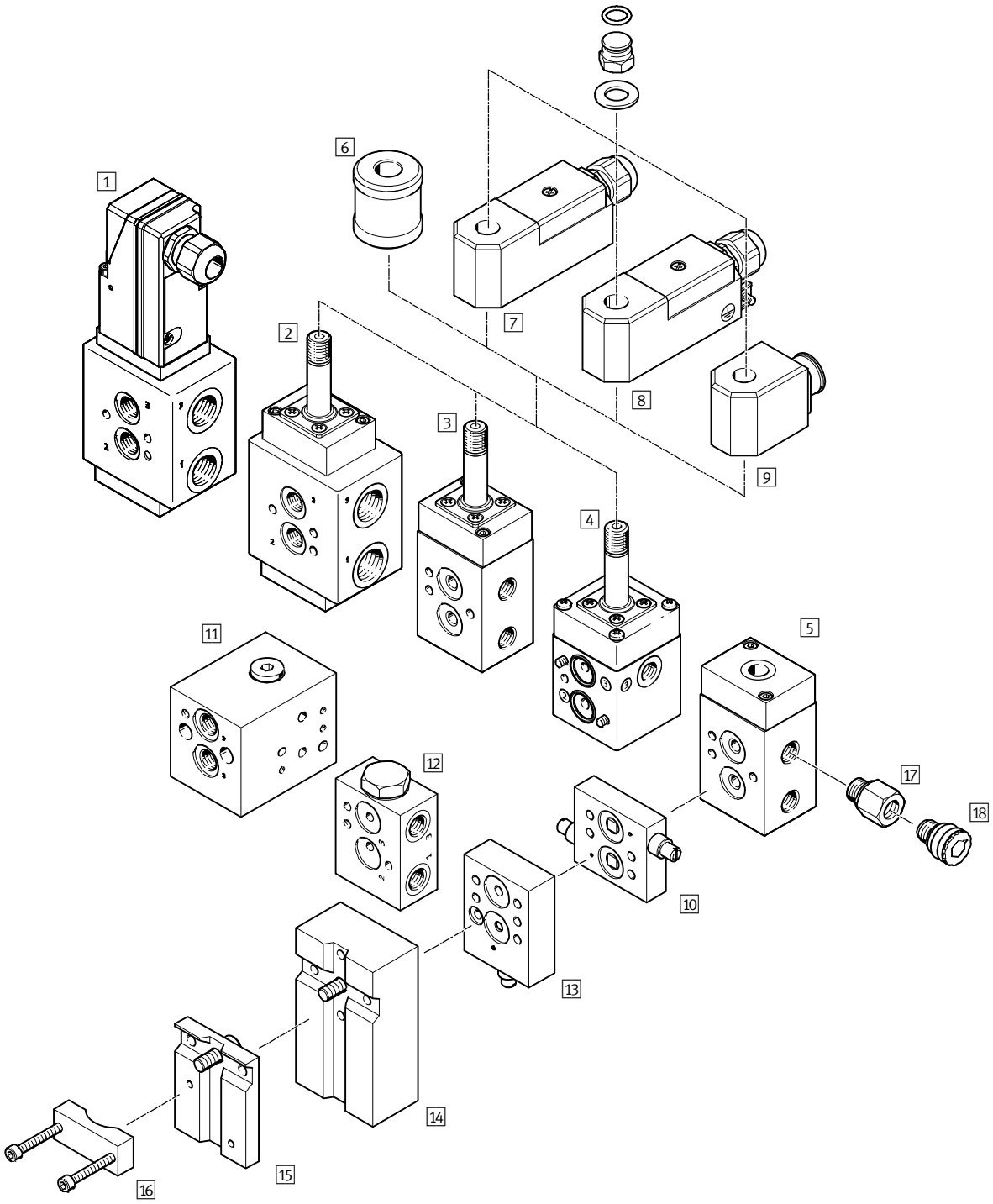
Solenoid valves VOFC

Peripherals overview



Solenoid valves VOFC

Peripherals overview

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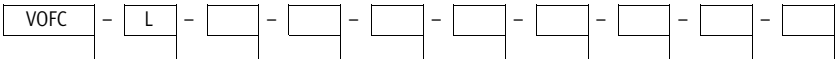
Mounting components and accessories			
		Brief description	**➔ Page/Internet**
1	Solenoid valve VOFC-LT-...-FG12-...-P3-...	Solenoid valve with valve pilot control, interface for pilot nozzle/baffle plate ➔ Modular product system - Configurable via online configurator	2
2	Basic valve VOFC-LT-...-FG12-...-F19...	3/2-way valve, G1/2 port, poppet valve ➔ Modular product system - Configurable via online configurator	2
3	Basic valve VOFC-L-...-FG14-...-F19...	3/2-way valve, G1/4 port, piston spool ➔ Modular product system - Configurable via online configurator	2
4	Basic valve VOFC-LT-...-FG14-...-F19...	3/2-way valve, G1/4 port, poppet valve ➔ Modular product system - Configurable via online configurator	2
5	Directional control valve VOFC-L-...-SG14/SN14-...	3/2-way valve, 5/2-way valve, G1/4 port, piston spool ➔ Modular product system - Configurable via online configurator	2
6	Manual override VAOH-MB-S7-S13	Manual override (MO)	59
7	Solenoid coil VACC-S13-...3A	Type of ignition protection iA = intrinsically safe, for use in zone 1	53
8	Solenoid coil VACC-S13-...ME	Type of ignition protection ME = mould-encapsulated, for use in zone 1	53
9	Solenoid coil VACC-S13...A1	IP65, electrical port pattern type A to DIN EN 175-803	53
10	Flow control plate VABF-S7-F1B1P2-F	Exhaust-air flow control plate for NAMUR interface for installation between the solenoid valve and double-acting actuators	57
11	Sub-base VABS-S7-RB-B-...14-V14-A	For mounting two solenoid valves for redundant circuitry, with flange ¼, port pattern to NAMUR	54
12	Sub-base VABS-S7-BE-B-...14-V14-A	Pressurisation and exhaust block, with flange ¼, port pattern to NAMUR	54
13	Flow control plate VABF-S7-F1B5P1-F	Exhaust-air flow control plate for NAMUR interface for installation between the solenoid valve and single-acting actuators	57
14	Connection kit VABF-S7-S-G14	Mounting plate for attaching the valve to the NAMUR rib	57
15	Mounting plate VAME-S7-P	Mounting plate for attaching the valve to the NAMUR rib	56
16	Mounting bracket VAME-S7-Y	Alternative (instead of screw) for attaching the valve to the NAMUR rib using a mounting bracket	58
17	Adapter NPFV-AF-...-MF	Adapter with filter	58
18	Exhaust protection VABD-D3-SN-...	Exhaust protection IP65. The spring chamber of the solenoid valve is protected against the ingress of an aggressive ambient atmosphere and water by the non-return system	58

Solenoid valves VOFC

Type code VOFC



Type	
VOFC	Solenoid valves

Valve type	
L	In-line valve

Nominal width	
–	Standard

Design principle	
–	Piston spool
T	Poppet valve

Valve function	
B52	5/2-way valve, double solenoid
M52	5/2-way valve, single solenoid
M32C	3/2-way valve, normally closed

Reset method for single solenoid valves	
–	Without
M	Mechanical spring

Pilot air	
–	Internal
C	Internal/external
Z	External

Manual override	
–	Without
H	Non-detenting (resetting)
Y	Detenting

Pneumatic connection	
G12	G1/2
G14	G1/4
N12	1/2 NPT
N14	1/4 NPT
FG12	Flange G1/4, ports G1/2
FG13	Flange G1/2, ports G1/2
FG14	Flange G1/4, ports G1/4
FN12	Flange 1/4 NPT, ports 1/2 NPT
FN13	Flange 1/2 NPT, ports 1/2 NPT
FN14	Flange 1/4 NPT, ports 1/4 NPT
FGP14	Flange G1/4, ports G1/4 and additional pneumatic connection
FNP14	Flange 1/4 NPT, ports 1/4 NPT and additional pneumatic connection

Supply port version	
–	Standard
PF	With particle filter
NPF	With particle filter and connecting thread 1/4 NPT

Solenoid valves VOFC

Type code VOFC

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Exhaust	
–	Without fitting
U6	With exhaust protection

Corrosion protection	
–	Standard
R1	Stainless steel

Valve pilot control interface	
P3	Interface for pilot nozzle/baffle plate
F19	Electrical system with armature tube for solenoid coil 13mm
F19A	Electrical system with armature tube for solenoid coil 13mm, intrinsically safe
SG14	Interface with thread G1/4
SN14	Interface with thread 1/4 NPT

Power consumption	
–	Without
11	1.1 W
18	1.8 W
0,4	40 mW
0,09	9 mW

Nominal operating voltage	
–	Without
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

Electrical connection	
–	Without
A1	Plug pattern type A, to EN 175301
K4	Cable connector, metric

Circuitry	
–	Without
F	Fuse

EU certification	
–	Without
EX4	II 2GD

Type of ignition protection	
–	Without
A	Intrinsically safe
ME	Moulded encapsulation, enhanced safety

Solenoid valves VOFC-L ... F19/F19A/SN14/SG14

Technical data – Modular system, piston spool valve

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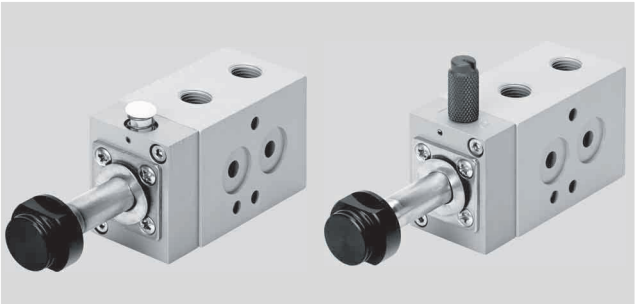
Function

- 3/2-way solenoid valve
- 5/2-way single solenoid valve
- 5/2-way double solenoid valve

Temperature range
–25 ... +60 °C

Flow rate
913 ... 1030 l/min



General technical data		
Type VOFC-L-...		
Valve functions		3/2-way closed, single solenoid, 5/2-way single solenoid, 5/2-way double solenoid
Design		Piston spool
Sealing principle		Soft
Width	[mm]	40
Mounting position		Any
Manual override		None
		Non-detenting
		Detenting
Reset method		Without
		Mechanical spring
Actuation type		Electrical
Type of pilot control		Pilot-actuated
Pilot air supply		Internal
		External
Flow rate for piston valve pressurisation	[m^3/h]	0.66 ... 1.08
Flow rate for piston valve exhaust	[m^3/h]	0.66 ... 1.08
Switching time off	[ms]	22 (VOFC-L-B52-..., VOFC-L-M52-...)
Switching time on	[ms]	26 (VOFC-L-B52-..., VOFC-L-M52-...)
Flow direction		Non-reversible
Nominal width	[mm]	6
Standard nominal flow rate 1⟶2	[l/min.]	913 ... 1030
Standard nominal flow rate 2⟶3	[l/min.]	978 ... 983

Technical data, 5/2-way valve, single or double solenoid		
VOFC-L-B52-G14- VOFC-L-M52-...-G14-	1	G1/4
	2	G1/4
	3	G1/4
	4	G1/4
	5	G1/4
VOFC-L-B52-N14- VOFC-L-M52-...-N14-	1	1/4 NPT
	2	1/4 NPT
	3	1/4 NPT
	4	1/4 NPT
	5	1/4 NPT
VOFC-L-B52-FG14- VOFC-L-M52-...-FG14-	1	G1/4
	2	Port pattern to NAMUR, flange 1/4
	3	G1/4
	4	Port pattern to NAMUR, flange 1/4
	5	G1/4
VOFC-L-B52-FN14-	1	1/4 NPT
	2	Port pattern to NAMUR, flange 1/4
	3	1/4 NPT
	4	Port pattern to NAMUR, flange 1/4
	5	1/4 NPT

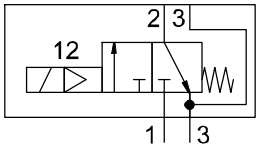
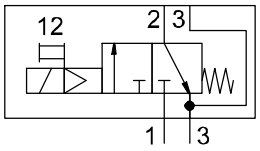
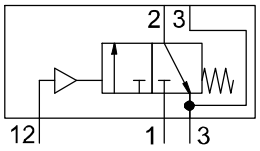
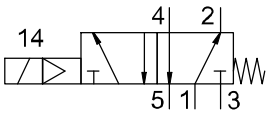
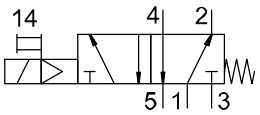
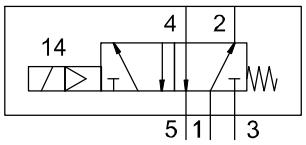
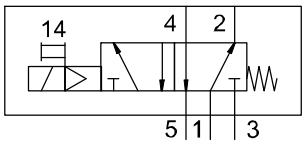
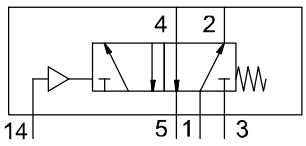
Technical data, 3/2-way valve, single or double solenoid		
VOFC-L-M32C-…-FG14-	1	G1/4
	2	Port pattern to NAMUR, flange 1/4
	3	G1/4

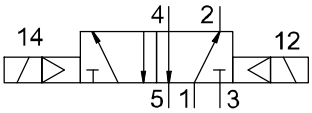
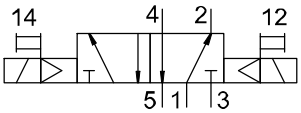
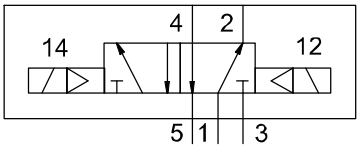
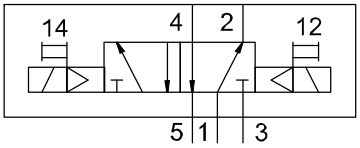
Technical data, weights		
Type	Weight of basic valve	Weight of pilot control -P3-
VOFC-L-B52-G14-…	790	170
VOFC-L-B52-N14-…	790	170
VOFC-L-B52-FG14-…	680	170
VOFC-L-M52-MH-G14-…	520	85
VOFC-L-M52-MY-G14-…	520	85
VOFC-L-M52-MH-FG14-…	520	85
VOFC-L-M52-MY-FG14-…	520	85
VOFC-L-M52-M-N14-…	520	85
VOFC-L-M32C-MH-FG14-…	520	85
VOFC-L-M32C-MY-FG14-…	520	85
VOFC-L-M52-MZ-…	430	–
VOFC-L-M32C-MZ-…	430	–

Operating and environmental conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Degree of protection		IP50, IP65
Operating pressure range	[bar]	2.5 … 8
	[psi]	36 … 116
Temperature of medium	[°C]	–25 … +60
Ambient temperature	[°C]	–25 … +60
Safety Integrity Level	[SIL]	Up to SIL2 Low Demand mode
		Up to SIL2 High Demand mode
Corrosion resistance class CRC[1)]		4
Note on materials		Contains paint-wetting impairment substances
		RoHS-compliant

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

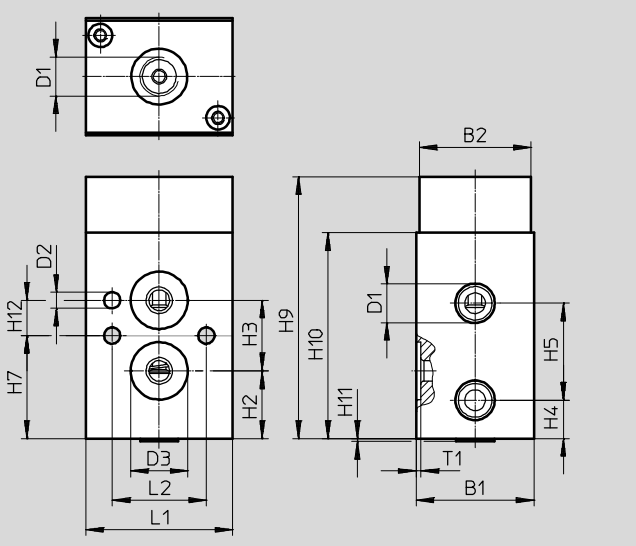
Materials		
	VOFC-L-…	VOFC-L-…-P3
Housing	Aluminium (Ematal coated)	Aluminium, Ematal coated, PBT-reinforced
Seals	NBR	NBR, EPDM, VMQ

Valve functions		
Circuit symbol	Type code	Description
	VOFC-L-M32C-M-FG14-...	3/2-way valve, single solenoid, closed • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air • With NAMUR port • Without manual override (MO)
	VOFC-L-M32C-MH-FG14-... (MO non-detenting) VOFC-L-M32C-MY-FG14-... (MO detenting)	3/2-way valve, single solenoid, closed • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air • With NAMUR port • With manual override (MO)
	VOFC-L-M32C-MZ-...	3/2-way valve, single solenoid, closed • Pneumatically pilot-actuated • Non-reversible • With spring return • External pilot air supply • With NAMUR port • Without manual override (MO)
	VOFC-L-M52-M-G14-... VOFC-L-M52-M-N14-...	5/2-way valve, single solenoid • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air • Without manual override (MO)
	VOFC-L-M52-MH-G14-... (MO non-detenting) VOFC-L-M52-MY-G14-... (MO detenting) VOFC-L-M52-MH-N14-... (MO non-detenting) VOFC-L-M52-MY-N14-... (MO detenting)	5/2-way valve, single solenoid • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air • With manual override (MO)
	VOFC-L-M52-M-FG14-... VOFC-L-M52-M-FN14-...	5/2-way valve, single solenoid • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air • With NAMUR port • Without manual override (MO)
	VOFC-L-M52-MH-FG14-... (MO non-detenting) VOFC-L-M52-MY-FG14-... (MO detenting) VOFC-L-M52-MH-FN14-... (MO non-detenting) VOFC-L-M52-MY-FN14-... (MO detenting)	5/2-way valve, single solenoid • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air • With NAMUR port • With manual override (MO)
	VOFC-L-M52-MZ-...	5/2-way valve, single solenoid • Pneumatically pilot-actuated • Non-reversible • With spring return • External pilot air supply • With NAMUR port • Without manual override (MO)

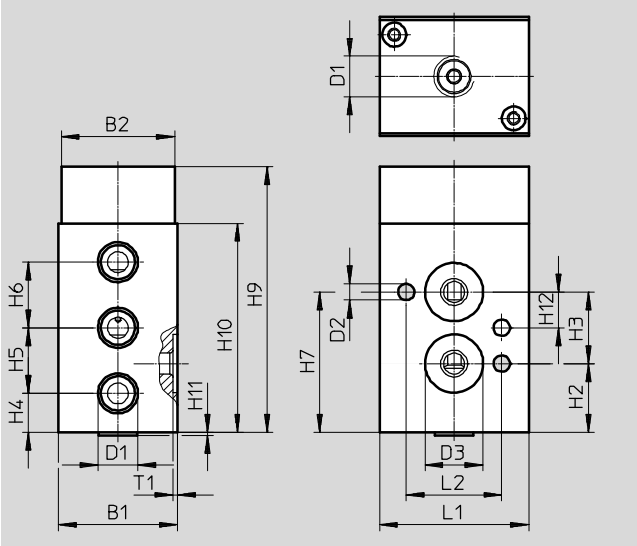
Valve functions		
Circuit symbol	Type code	Description
	VOFC-L-B52-G14-... VOFC-L-B52-N14-...	5/2-way solenoid valve, double solenoid • Electrically pilot-actuated • Non-reversible • Internal pilot air • Without manual override (MO)
	VOFC-L-B52-H-G14-... (MO non-detenting) VOFC-L-B52-H-N14-... (MO non-detenting)	5/2-way solenoid valve, double solenoid • Electrically pilot-actuated • Non-reversible • Internal pilot air • With manual override (MO)
	VOFC-L-B52-FG14-... VOFC-L-B52-FN14-...	5/2-way solenoid valve, double solenoid • Electrically pilot-actuated • Non-reversible • Internal pilot air • With NAMUR port • Without manual override (MO)
	VOFC-L-B52-H-FG14-... (MO non-detenting)	5/2-way solenoid valve, double solenoid • Electrically pilot-actuated • Non-reversible • Internal pilot air • With NAMUR port • With manual override (MO)

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

3/2-way valves (without armature tube)
Interface -SG14/-SN14



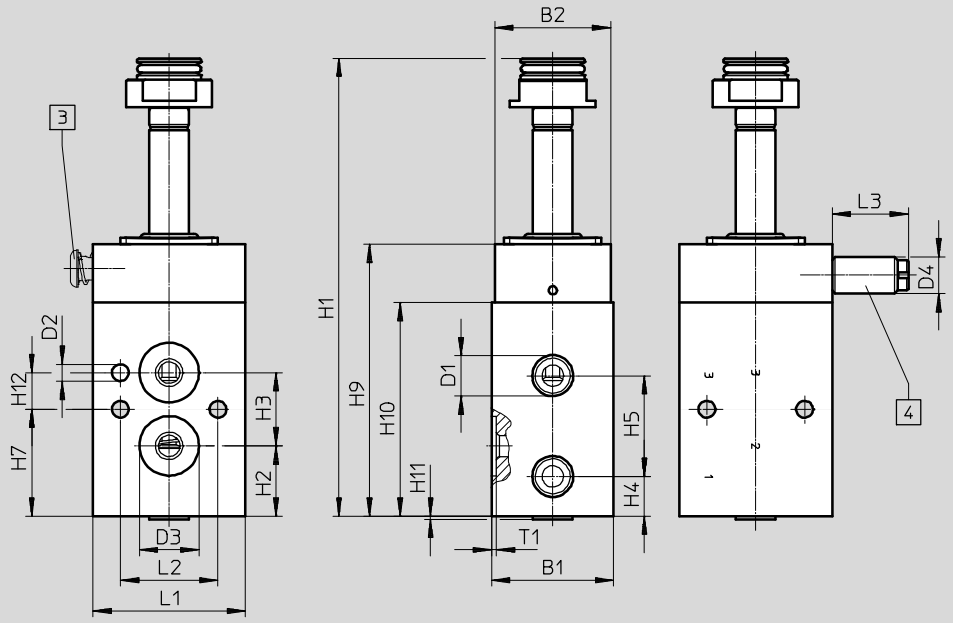
5/2-way valves (without armature tube)
Interface -SG14/-SN14



Type	B1	B2	D1	D2 ∅	D3 ∅	H2	H3	H4	H5	H6	H7	H9	H10	H11	H12	L1	L2	T1
VOFC-L-M32-MZ-FG14-SG14-...	40	38	G1/4	5.5	19.5	23	24	13	33	–	35	89	70	1	12	50	32	1.6
VOFC-L-M32-MZ-FN14-SN14-...			1/4 NPT															
VOFC-L-M52-MZ-FG14-SG14-...			G1/4						22	22	47							
VOFC-L-M52-MZ-FN14-SN14-...			1/4 NPT															

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

3/2-way valves, basic valve



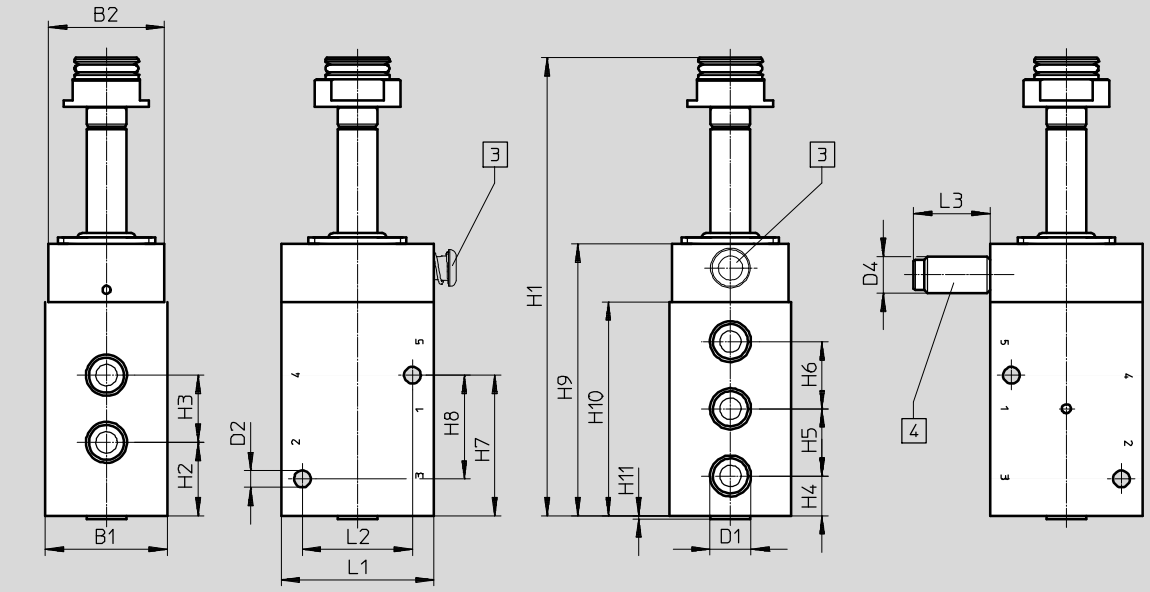
3 Manual override, non-detenting (VOFC-L-M32-MH- …)

4 Manual override, detenting (VOFC-L-M32-MY- …)

Type	B1	B2	D1	D2 ∅	D3 ∅	D4 ∅	H1	H2	H3	H4	H5	H7	H9	H10	H11	H12	L1	L2	L3	T1
VOFC-L-M32-M-FG14-…	40	38	G1/4	5.5	19.5	–	150	23	24	13	33	35	89	70	1	12	50	32	–	1.6
VOFC-L-M32-MH-FG14-…																				
VOFC-L-M32-MY-FG14-…						12													25	

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

5/2-way valves, basic valve, port
-G14/-N14



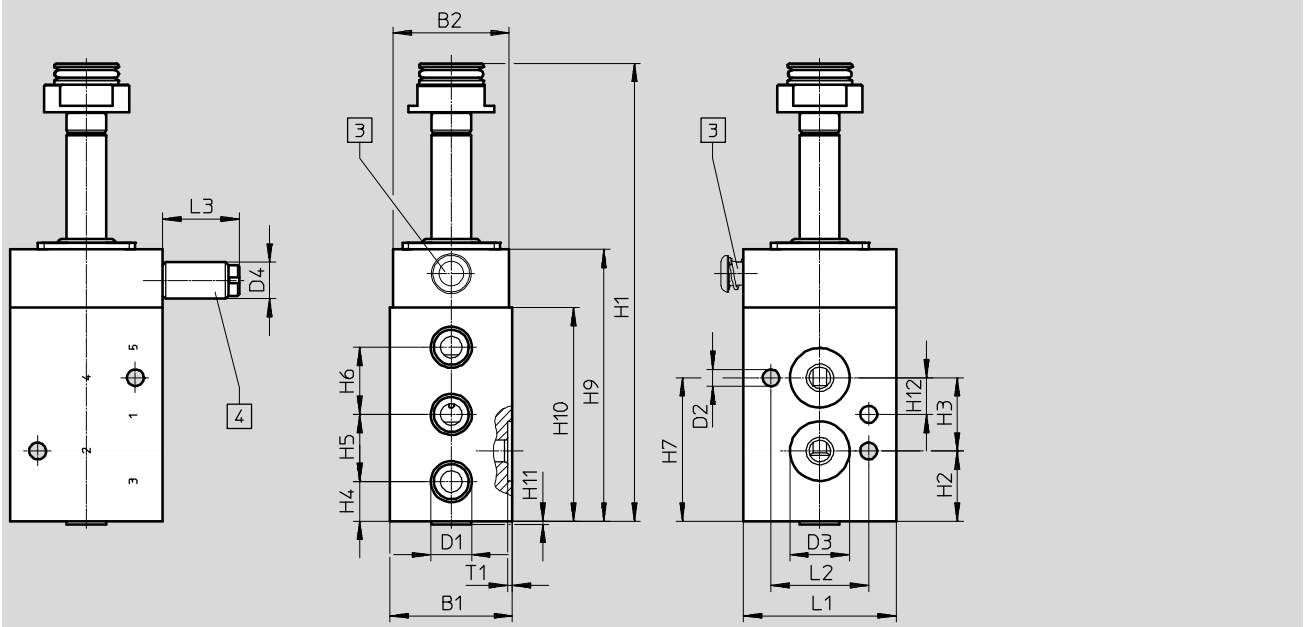
3 Manual override, non-detenting (VOFC-L-M52-MH- ...)

4 Manual override, detenting (VOFC-L-M52-MY- ...)

Type	B1	B2	D1	D2 ∅	D4 ∅	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	L1	L2	L3
VOFC-L-M52-M-G14-...	40	38	G1/4	5.5	–	150	24	22	13	22	22	46	34	89	70	1	50	36	–
VOFC-L-M52-MH-G14-...																			
VOFC-L-M52-M-N14-...			1/4 NPT																
VOFC-L-M52-MH-N14-...																			
VOFC-L-M52-MY-G14-...			G1/4		12														25

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

5/2-way valves, basic valve, port
-FG14



3 Manual override, non-detenting (VOFC-L-M52-MH- …)

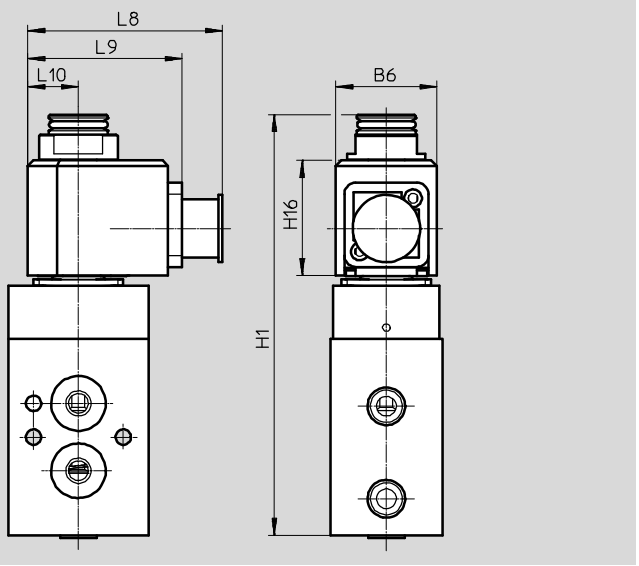
4 Manual override, detenting (VOFC-L-M52-MY- …)

Type	B1	B2	D1	D2 ∅	D3 ∅	D4 ∅	H1	H2	H3	H4	H5	H6	H7	H9	H10	H11	H12	L1	L2	L3	T1
VOFC-L-M52-M-FG14-…	40	38	G1/4	5.5	19.5	–	150	23	24	13	22	22	47	89	70	1	12	50	32	–	1.6
VOFC-L-M52-MH-FG14-…																					
VOFC-L-M52-MY-FG14-…						12														25	

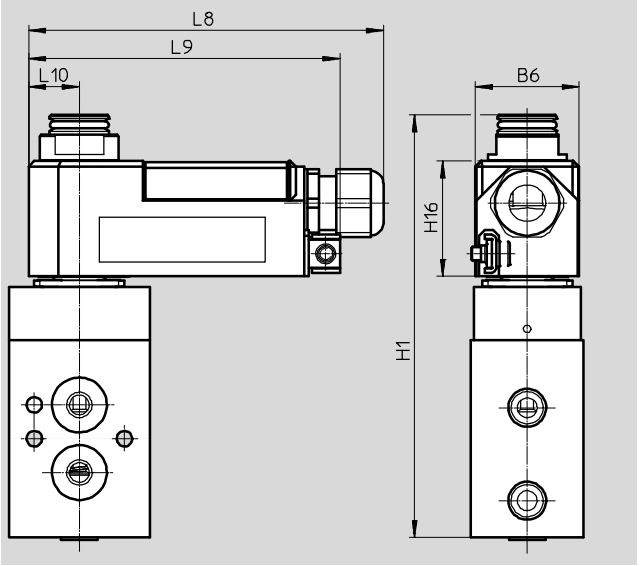
Dimensions Download CAD data ➔ **www.festo.com**

Single solenoid valves with solenoid coil

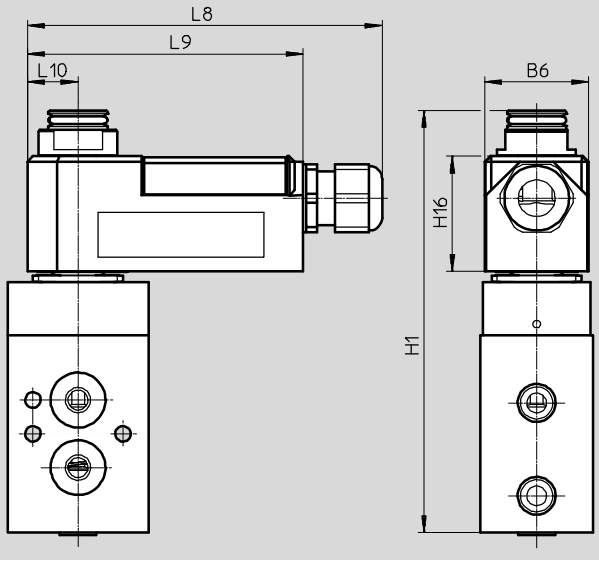
VOFC-...-18-A1-...



VOFC-...-18-K4-...-EX4ME



VOFC-...-11-K4-1-EX4A

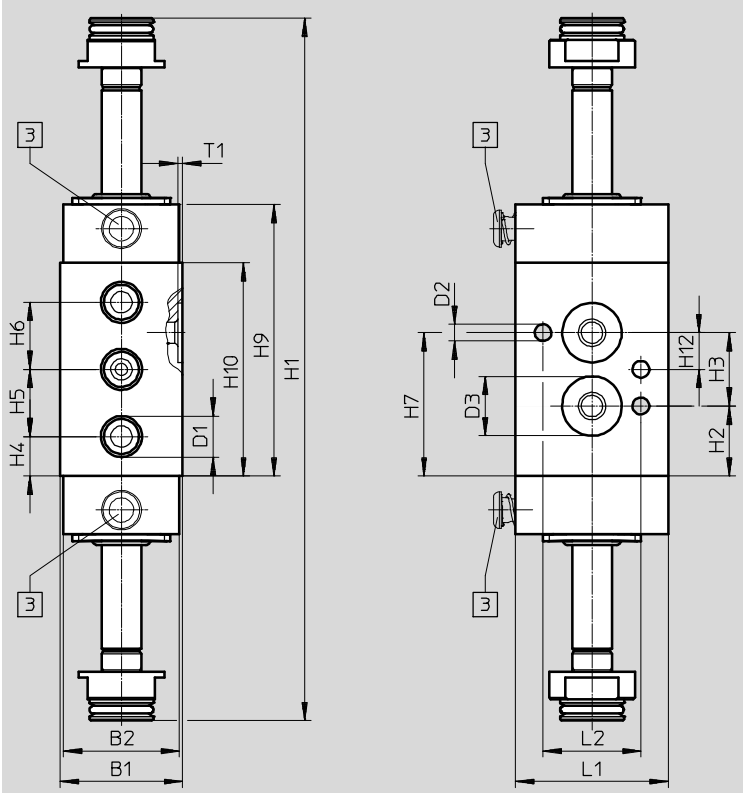


Type	B6	H1	H16	L8	L9	L10
VOFC-...-18-A1-...	36	150	41	69.4	55	18
VOFC-...-18-K4-...-EX4ME	37	150	41	125	111	18
VOFC-...-11-K4-1-EX4A	37	150	41	125	98	18

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

5/2-way valves, double solenoid, basic valve

Port -FG



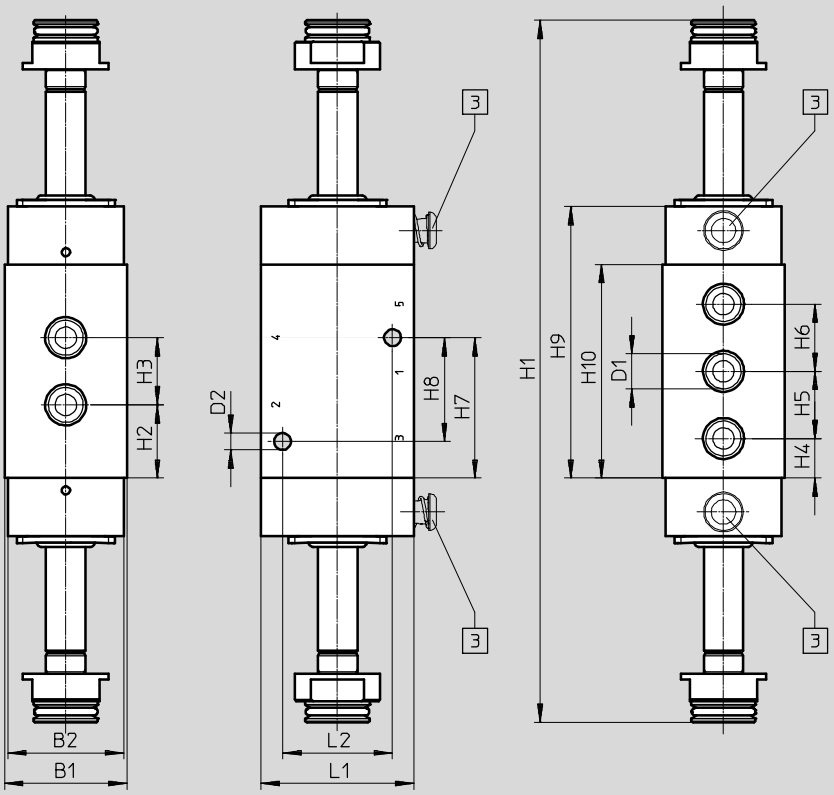
3 Manual override, non-detenting (VOFC-L-B52-H- ...)

Type	B1	B2	D1	D2 ∅	D3 ∅	H1	H2	H3	H4	H5	H6	H7	H9	H10	H12	L1	L2	T1
VOFC-L-B52-...-FG14-...	40	38	G1/4	5.5	19.5	230	23	24	13	22	22	47	89	70	12	50	32	1.6
VOFC-L-B52-H-...-FG14-...																		

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

5/2-way valves, double solenoid, basic valve

Port -G14/-N14



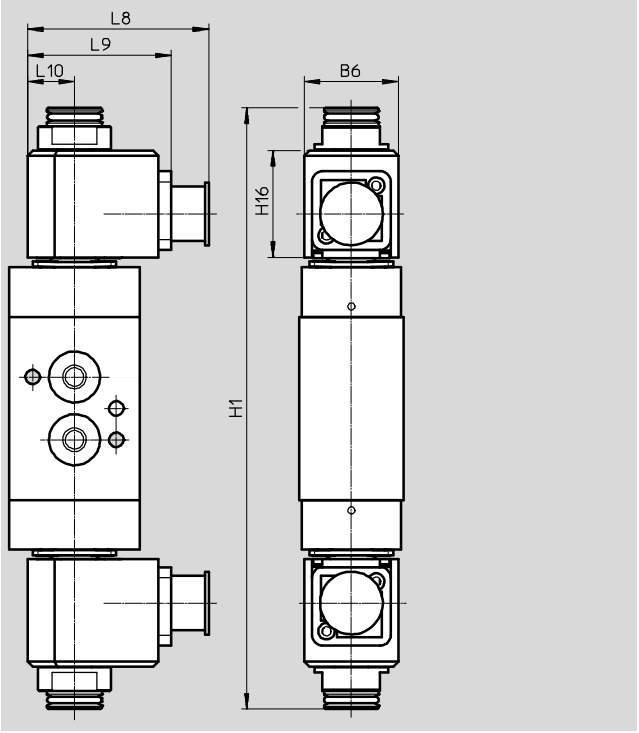
3 Manual override, non-detenting (VOFC-L-B52-H- ...)

Type	B1	B2	D1	D2 ∅	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	L1	L2
VOFC-L-B52-...-G14-...	40	38	G1/4	5.5	230	24	22	13	22	22	46	34	89	70	50	36
VOFC-L-B52-H-G14-...																
VOFC-L-B52-...-N14-...			1/4 NPT													
VOFC-L-B52-H-N14-...																

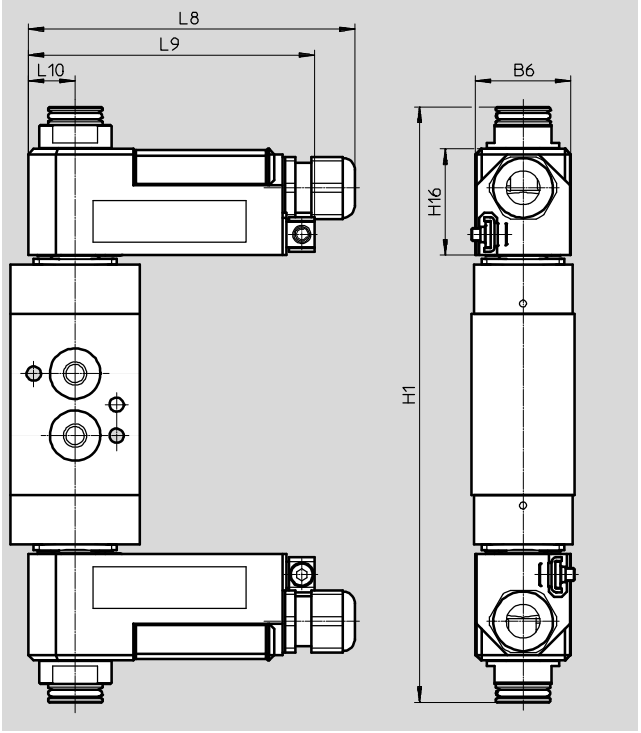
Dimensions Download CAD data ➔ **www.festo.com**

Double solenoid valves with solenoid coil

VOFC-...-18-A1-...



VOFC-...-18-K4-...-EX4ME

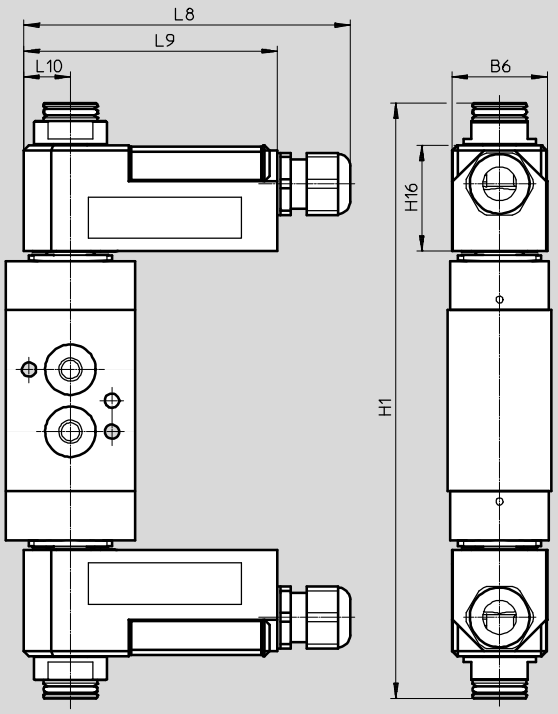


Type	B6	H1	H16	L8	L9	L10
VOFC-...-18-A1-...	36	230	41	69.4	55	18
VOFC-...-18-K4-...-EX4ME	37	230	41	125	111	18

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

Double solenoid valves with solenoid coil

VOFC-...-11-K4-1-EX4A



Type	B6	H1	H16	L8	L9	L10
VOFC-...-11-K4-1-EX4A	37	230	41	125	98	18

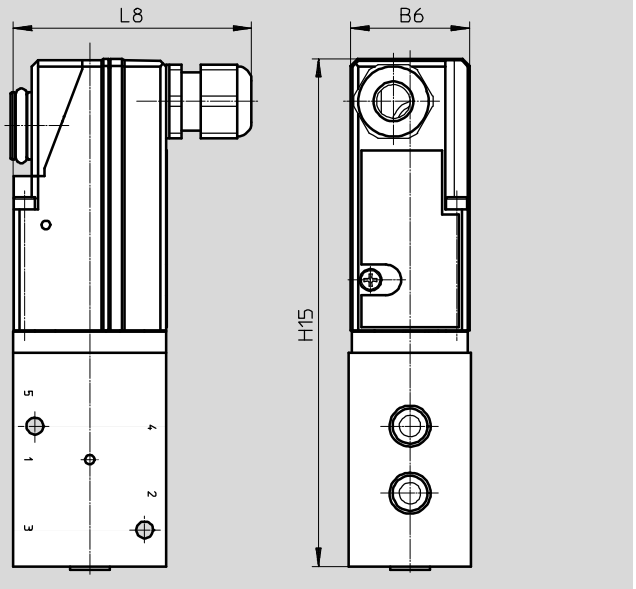
Solenoid valve, nozzle/baffle plate
(VOFC-...-P3-...)

Technical data, solenoid valve, nozzle/baffle plate			
Type		VOFC-...-P3-...-0.09-...-EX4A	VOFC-...-P3-...-0.4-...-EX4A
With pilot control unit		VACC-P3-0.09-K4-1-EX4A	VACC-P3-0.4-K4-1-EX4A
Design		Nozzle/baffle plate pilot control	
Operating voltage range	[V DC]	6.4 ... 40	16 ... 40
Degree of protection		IP 50	
Reverse polarity protection		Bipolar	
Duty cycle	[%]	100	
Max. input power Pi	[mW]	650	
Max. input voltage Ui	[V]	40	
Max. input current Ii	[mA]	200	
Effective internal capacitance Ci		Negligibly low	
Effective internal inductance Li		Negligibly low	
ATEX category for gas		II 2G	
Type of ignition protection for gas		Ex ia IIC T6, T5 Gb	
ATEX category for dust		II 2D	
Type of ignition protection for dust		Ex ia IIIC T85°C, T125°C Db	
Explosion-proof ambient temperature	[°C]	T5, T125: –40 ≤ Ta ≤ +70	
		T6, T85: –40 ≤ Ta ≤ +30	
Certificate issuing authority		BVS14ATEXE098X	
		IECEx BVS14.0063X	
		KGS15-GA4BO-0565X	
Notified body for quality testing		0344	
Explosion protection certification outside the EU		EPL Gb (IEC-EX)	
		EPL Db (IEC-EX)	
		EPL Gb (KR)	
		EPL Db (KR)	
CE marking (see declaration of conformity)		To EU Explosion Protection Directive (ATEX)	
Insulation class		H	
Electrical connection		Terminal box, cable entry, thread M20 x 1.5, conductor cross-section max. 1.5 mm^2, cable diameter 5-9 mm	
Information on materials for solenoid coil		PBT-reinforced, UP	

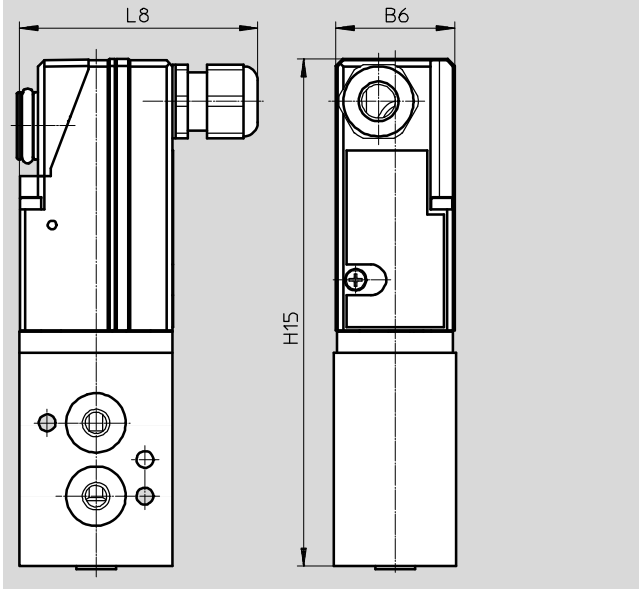
Dimensions Download CAD data ➔ **www.festo.com**

Solenoid valve with nozzle/baffle plate, pilot

Port -G14/-N14



Port -FG14

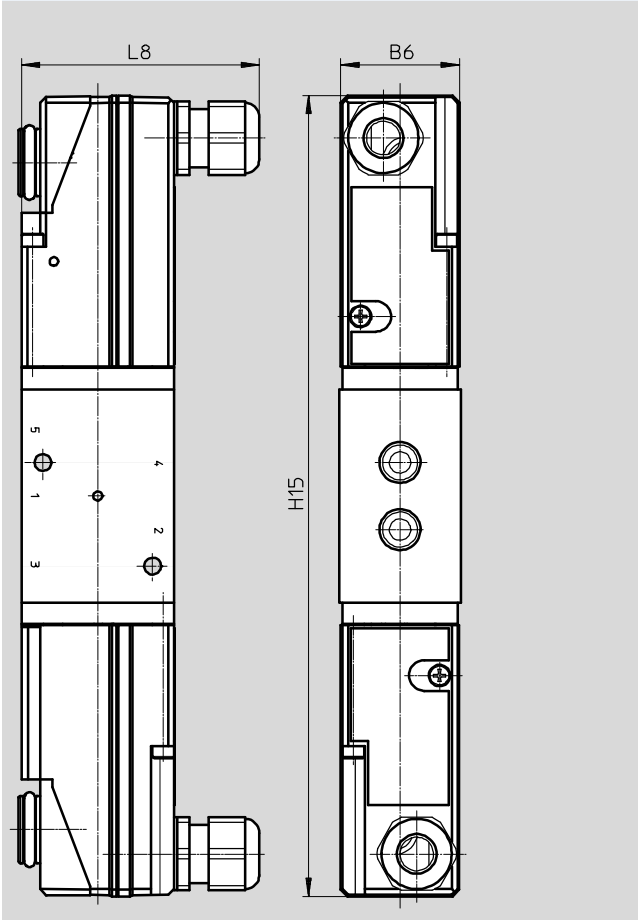


Type	B6	H15	L8
VOFC-L-M52-M...-G14-P3-0.4-1-K4-EX4A	39	167	76
VOFC-L-M52-M...-N14-P3-0.4-1-K4-EX4A			
VOFC-L-M52-M...-FG14-P3-0.4-1-K4-EX4A			
VOFC-L-M52-M...-G14-P3-0.09-1-K4-EX4A			
VOFC-L-M52-M...-N14-P3-0.09-1-K4-EX4A			
VOFC-L-M52-M...-FG14-P3-0.09-1-K4-EX4A			

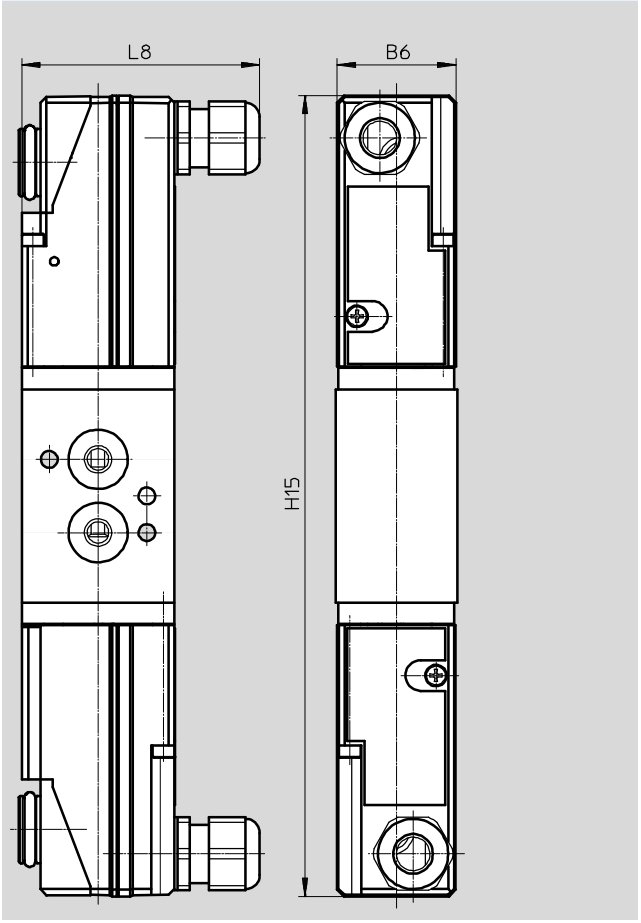
Dimensions Download CAD data ➔ **www.festo.com**

Double solenoid valve with nozzle/baffle plate pilot

Port -G14/-N14



Port -FG14



Type	B6	H15	L8
VOFC-L-B52-...-G14-P3-0.4-1-K4-EX4A	39	263	76
VOFC-L-B52-...-N14-P3-0.4-1-K4-EX4A			
VOFC-L-B52-...-FG14-P3-0.4-1-K4-EX4A			
VOFC-L-B52-...-G14-P3-0.09-1-K4-EX4A			
VOFC-L-B52-...-N14-P3-0.09-1-K4-EX4A			
VOFC-L-B52-...-FG14-P3-0.09-1-K4-EX4A			

Solenoid valves VOFC-LT ... F19/F19A

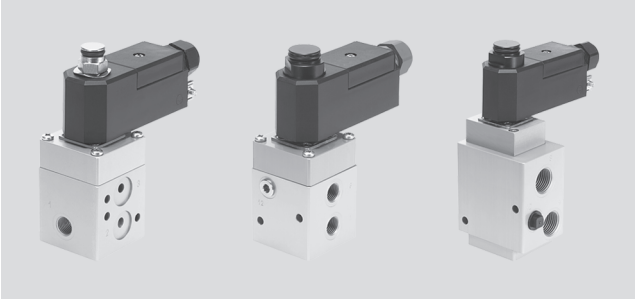
Technical data – Modular system, poppet valves

FESTO

Function
- 3/2-way solenoid valve

Temperature range
−25 ... +60 °C

Flow rate
766 ... 2686 l/min



General technical data			
Type		VOFC-LT-M32C-M...12-... VOFC-LT-M32C-M...13-...	VOFC-LT-M32C-M...14-...
Valve functions		3/2-way single solenoid valve	
Design		Poppet valve	
Sealing principle		Hard	
Width	[mm]	51	
Mounting position		Any	
Manual override		None	
Type of reset		Mechanical spring	
Actuation type		Electrical	
Type of control		Pilot-actuated	
Pilot air supply		Internal	
		Internal/external	
Flow rate for piston valve pressurisation	[m^3/h]	0.5 ... 2.4	
Flow rate for piston valve exhaust	[m^3/h]	0.65 ... 3.3	
Switching time off	[ms]	14	18
Switching time on	[ms]	25	24
Direction of flow		Non-reversible	
Nominal width	[mm]	6 ... 12	
Standard nominal flow rate 1 ⟶ 2	[l/min.]	766 ... 2686	
Standard nominal flow rate 2 ⟶ 3	[l/min.]	1467 ... 3462	

Technical data of pneumatic connection, type VOFC-LT-...14-...		
VOFC-LT-M32C-...-G14-...	1	G1/4
	2	G1/4
	3	G1/4
VOFC-LT-M32C-...-N14-...	1	1/4 NPT
	2	1/4 NPT
	3	1/4 NPT
VOFC-LT-M32C-...-FG14-...	1	G1/4
	2	Port pattern to NAMUR, flange 1/4
	3	G1/4
VOFC-LT-M32C-...-FGP14-...	1	Port pattern to M 5 NAMUR
	2	Port pattern to NAMUR, flange 1/4
	3	G1/4
VOFC-LT-M32C-...-FNP14-...	1	Port pattern to M 5 NAMUR
	2	Port pattern to NAMUR, flange 1/4
	3	1/4 NPT
VOFC-LT-M32C-...-FN14-...	1	1/4 NPT
	2	Port pattern to NAMUR, flange 1/4
	3	1/4 NPT

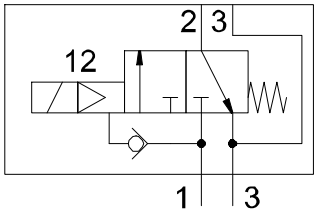
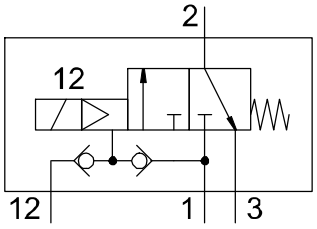
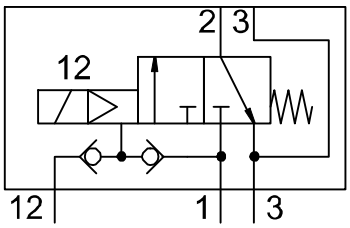
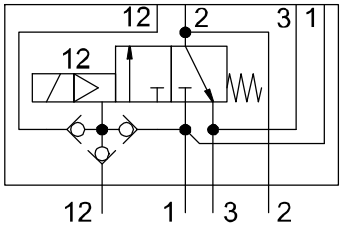
Technical data of pneumatic connection, type VOFC-LT-…12-…, type VOFC-LT-…13-…		
VOFC-LT-M32C-…-G12-…	1	G1/2
	2	G1/2
	3	G1/2
VOFC-LT-M32C-…-N12-…	1	1/2 NPT
	2	1/2 NPT
	3	1/2 NPT
VOFC-LT-M32C-…-FG12-…	1	G1/2
	2	Port pattern to NAMUR, flange 1/4
	3	G1/2
VOFC-LT-M32C-…-FN12-…	1	1/2 NPT
	2	Port pattern to NAMUR, flange 1/4
	3	1/2 NPT
VOFC-LT-M32C-…-FG13-…	1	G1/2
	2	Port pattern to NAMUR, flange 1/2
	3	G1/2
VOFC-LT-M32C-…-FN13-…	1	1/2 NPT
	2	Port pattern to NAMUR, flange 1/2
	3	1/2 NPT

Technical data, weights		
Type	Weight of basic valve	Weight of pilot control -P3-
VOFC-LT-M32C-M…12-…	880	85
VOFC-LT-M32C-MC-G14-…	550	85
VOFC-LT-M32C-MC-N14-…	550	85
VOFC-LT-M32C-M-F…14-…	600	85
VOFC-LT-M32C-MC-F…P14-…	600	85
VOFC-LT-M32C-MC-F…13-…	900	85

Operating and environmental conditions						
Type VOFC-LT-…		-M32C-M-…12-…	-M32C-M-…14-…	-M32C-MC-…12-… -M32C-MC-…13-…	-M32C-MC-…14-…	-M32C-MZ-…14-…
Operating medium		Compressed air to ISO 8573-1:2010 [7: – : –]				
Degree of protection		IP50, IP65				
Operating pressure range	[bar]	2 … 8	1 … 8	2 … 8	1 … 8	0 … 8
	[psi]	29 … 116	15 … 116	29 … 116	15 … 116	0 … 116
Note on operating pressure	[bar]	–		0 … 8 (for external pilot air)		
Pilot pressure	[bar]	–		>2		
Temperature of medium	[°C]	–25 … +60				
Ambient temperature	[°C]	–25 … +60				
Safety Integrity Level	[SIL]	Up to SIL3 Low Demand mode				
		Up to SIL3 High Demand mode				
Corrosion resistance class CRC[1)]		4				
Note on materials		Contains paint-wetting impairment substances				
		RoHS compliant				

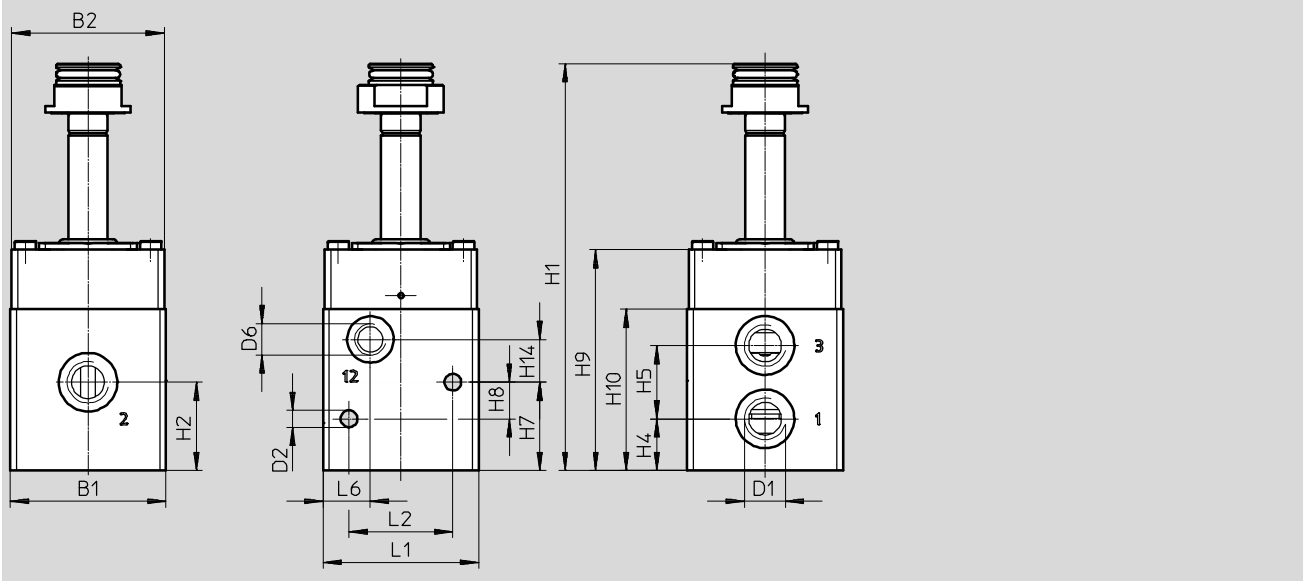
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (➔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

Materials			
Type	VOFC-LT-…	VOFC-LT-… -R1-…	VOFC-LT-… -P3-…
Housing	Aluminium (Ematal coated)	High-alloy stainless steel	Aluminium, Ematal coated, PBT-reinforced
Seals	NBR	NBR	NBR, EPDM, VMQ

Valve functions		
Circuit symbol	Type code	Description
	VOFC-LT-M32C-M-FG12- VOFC-LT-M32C-M-FG14- VOFC-LT-M32C-M-FN12- VOFC-LT-M32C-M-FN14-	3/2-way valve, single solenoid, closed • Electrically pilot-actuated • Non-reversible • With spring return • Internal pilot air supply • With NAMUR port • Without manual override • One-way flow control valve
	VOFC-LT-M32C-MC-G12- VOFC-LT-M32C-MC-G14- VOFC-LT-M32C-MC-N12- VOFC-LT-M32C-MC-N14-	3/2-way valve, single solenoid, closed • Electrically pilot-actuated • Non-reversible • With spring return • Pilot air supply, internal/external • Without manual override • One-way flow control valve
	VOFC-LT-M32C-MC-FG13- VOFC-LT-M32C-MC-FN13-	3/2-way valve, single solenoid, closed • Electrically pilot-actuated • Non-reversible • With spring return • Pilot air supply, internal/external • With NAMUR port • Without manual override • One-way flow control valve
	VOFC-LT-M32C-MC-FGP14- VOFC-LT-M32C-MC-FNP14-	3/2-way valve, single solenoid, closed • Electrically pilot-actuated • Non-reversible • With spring return • Pilot air supply, internal/external • With NAMUR port and additional supply port • Without manual override • One-way flow control valve

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

3/2-way valves, basic valve, port -G14/-N14

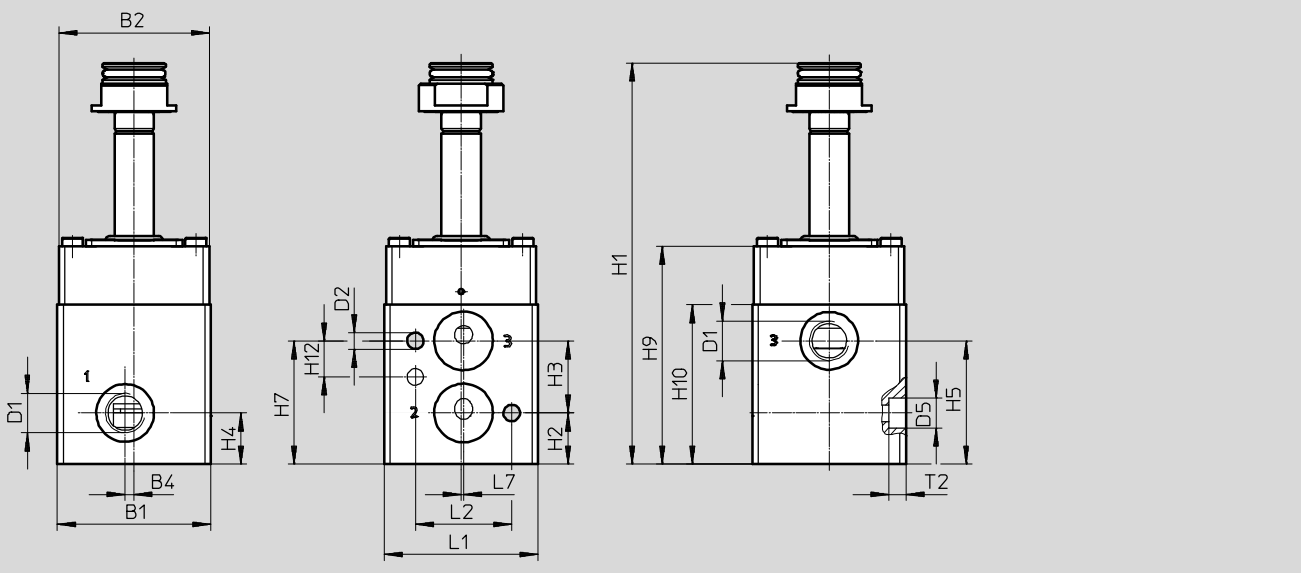


Type	B1	B2	D1	D2 ∅	H1	H2	H4	H5
VOFC-LT-M32C-MC-G14-…	51	50	G1/4	5.5	133	29	17	24
VOFC-LT-M32C-MC-N14-…			1/4 NPT					

Type	H7	H8	H9	H10	H14	L1	L2	L6
VOFC-LT-M32C-MC-G14-…	29	12	72	53	14	51	34	15.5
VOFC-LT-M32C-MC-N14-…								

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

3/2-way valves, basic valve, port -FG14

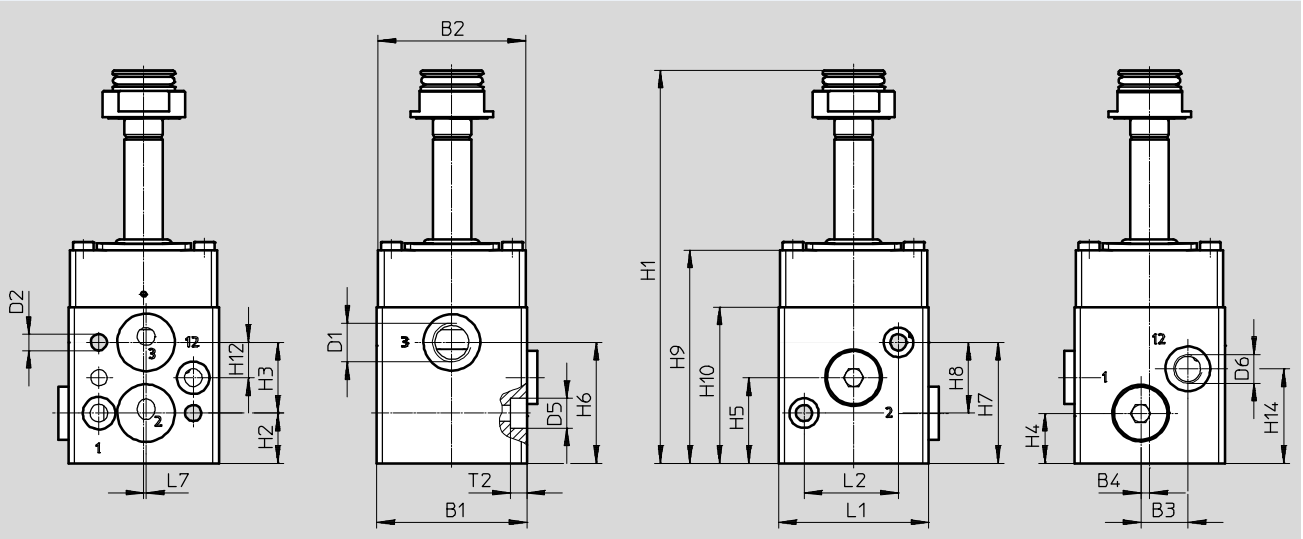


Type	B1	B2	B4	D1	D2 ∅	D5 ∅	H1	H2	H3	H4
VOFC-LT-M32C-M-FG14-...	51	50	3	G1/4	5.5	10	133	17	24	17

Type	H5	H7	H9	H10	H12	L1	L2	L7	T2
VOFC-LT-M32C-M-FG14-...	41	41	72	53	12	51	32	0.8	5.7

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

3/2-way valves, basic valve, port -FGP14

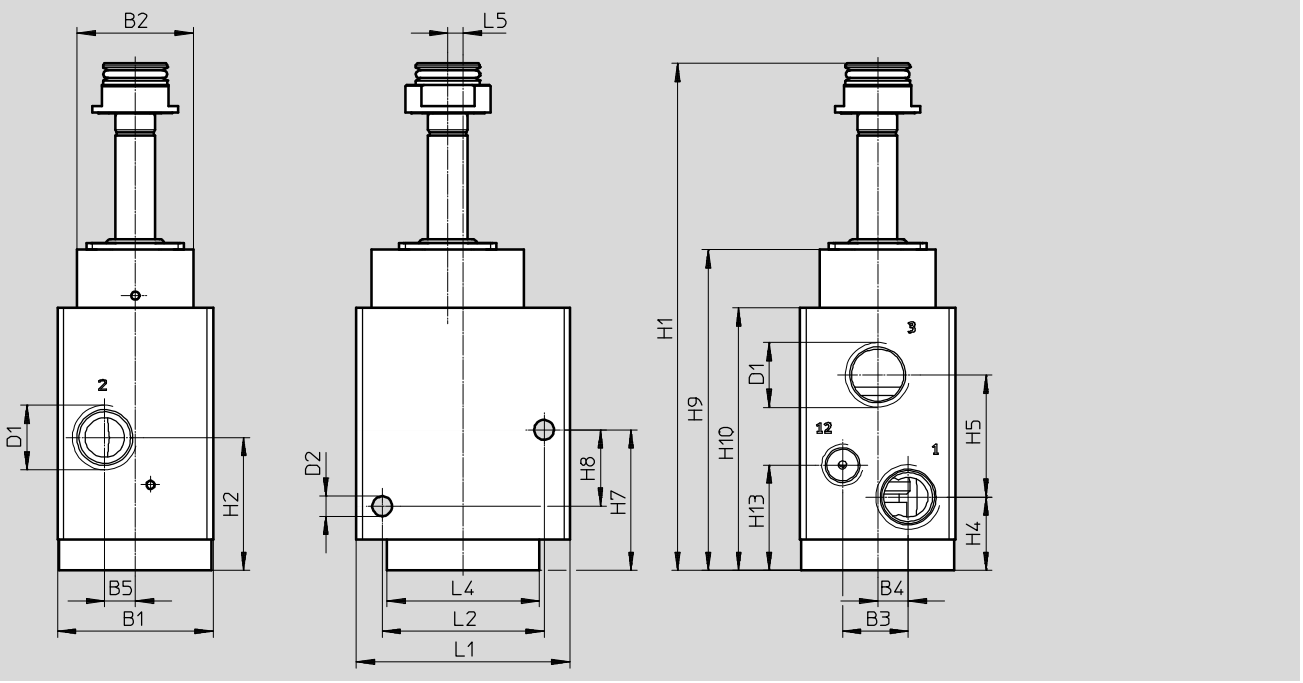


Type	B1	B2	B3	B4	D1	D2 ∅	D5 ∅	D6	H1	H2	H3	H4
VOFC-LT-M32C-M-FGP14-...	51	50	16	3	G1/4	5.5	10	G1/8	133	17	24	17

Type	H5	H6	H7	H8	H9	H10	H12	H14	L1	L2	L7	T2
VOFC-LT-M32C-M-FGP14-...	29	41	41	24	72	53	12	32	51	32	0.8	5.7

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

3/2-way valves, basic valve, port -G12/-N12

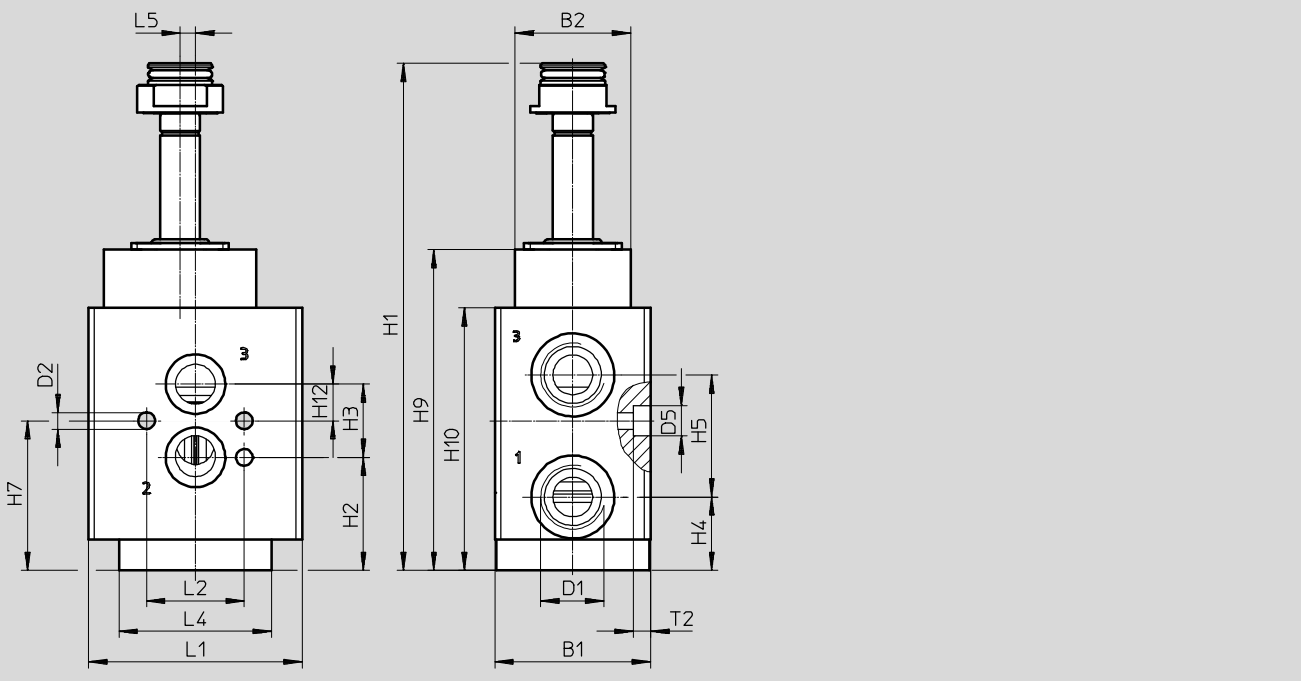


Type	B1	B2	B3	B4	B5	D1	D2 ∅	H1	H2	H4
VOFC-LT-M32C-MC-G12-...	51	38	22	10	10	G1/2	5.5	166	43.5	24
VOFC-LT-M32C-MC-N12-...			21.5			1/2 NPT				

Type	H5	H7	H8	H9	H10	H13	L1	L2	L4	L5
VOFC-LT-M32C-MC-G12-...	40	46	25	89	105	34.5	70	53	50	5
VOFC-LT-M32C-MC-N12-...										

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

3/2-way valves, basic valve, port -FG12

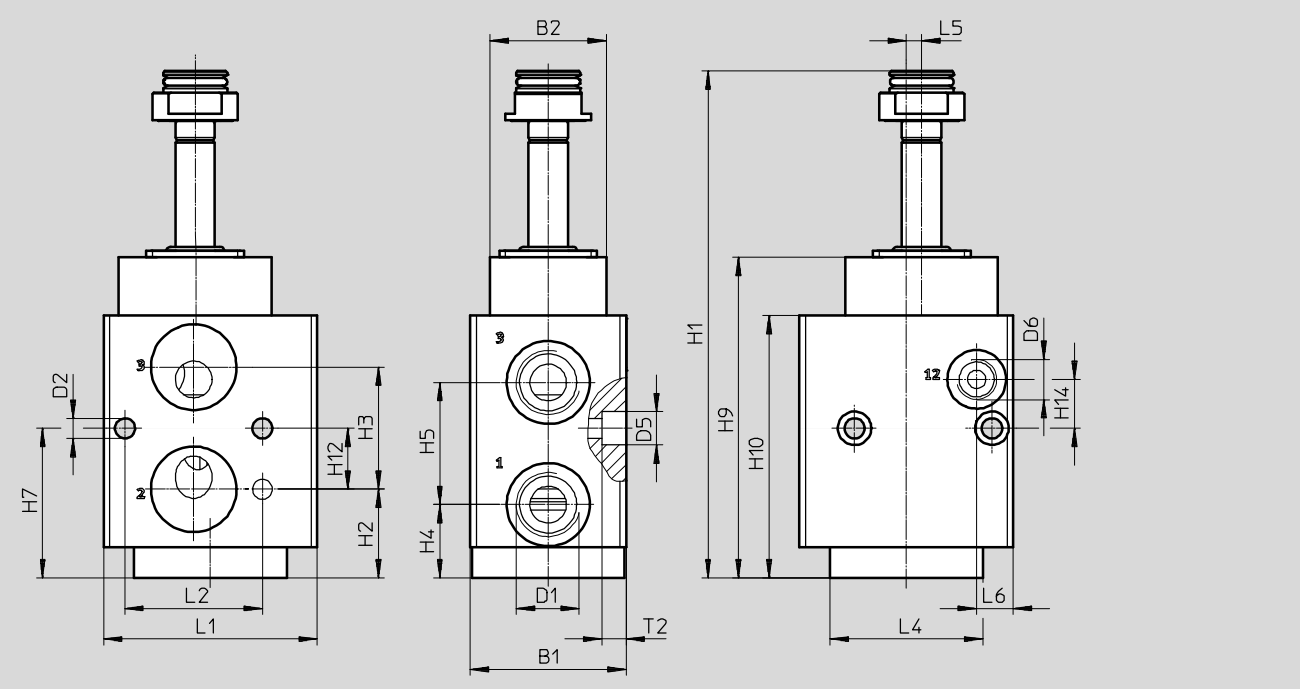


Type	B1	B2	D1	D2 ∅	D5 ∅	H1	H2	H3	H4	H5
VOFC-LT-M32C-MC-FG12-...	51	38	G1/2	5.5	10	166	37	24	24	40

Type	H7	H9	H10	H12	L1	L2	L4	L5	T2
VOFC-LT-M32C-MC-FG12-...	49	105	86	12	70	32	50	5	5.7

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

3/2-way valves, basic valve, port -FG13



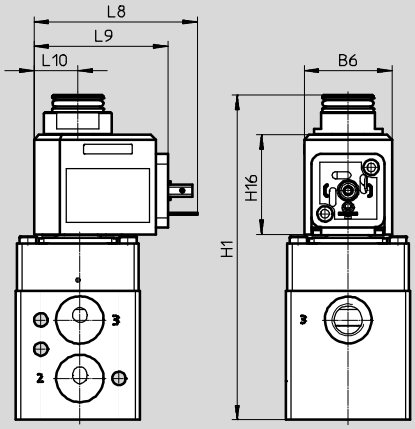
Type	B1	B2	D1	D2 ∅	D5 ∅	H1	H2	H3	H4	H5
VOFC-LT-M32C-M-FG13-...	51	38	G1/2	6.6	11	166	29	40	24	40

Type	H7	H9	H10	H12	H14	L1	L2	L4	L5	L6	T2
VOFC-LT-M32C-M-FG13-...	49	105	86	20	16	70	45	50	5	12	8

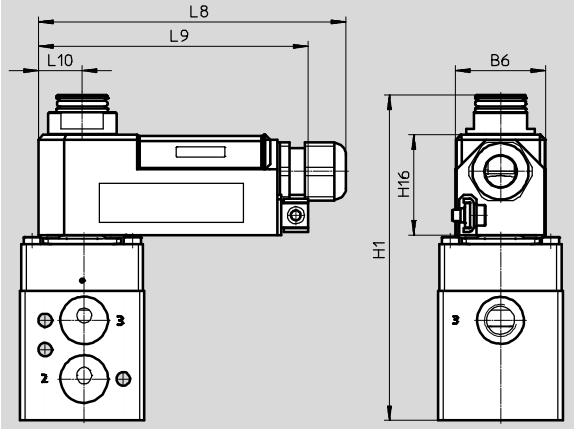
Dimensions Download CAD data ➔ **www.festo.com**

Valves with solenoid coil, pneumatic connection, size 1/4"

VOFC-LT-...-18-A1-...



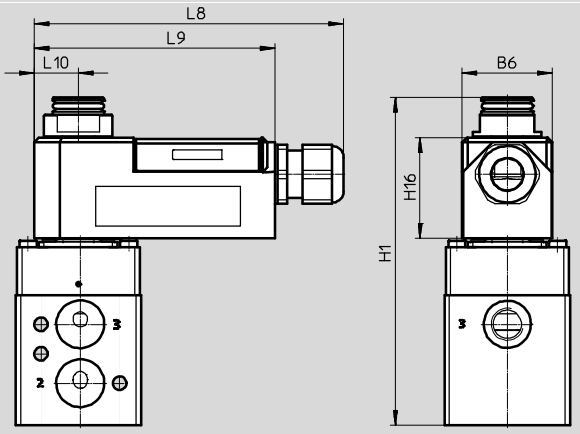
VOFC-LT-...-18-K4-...-EX4ME



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

Valves with solenoid coil, pneumatic connection, size 1/4"

VOFC-LT-...-11-K4-1-EX4A

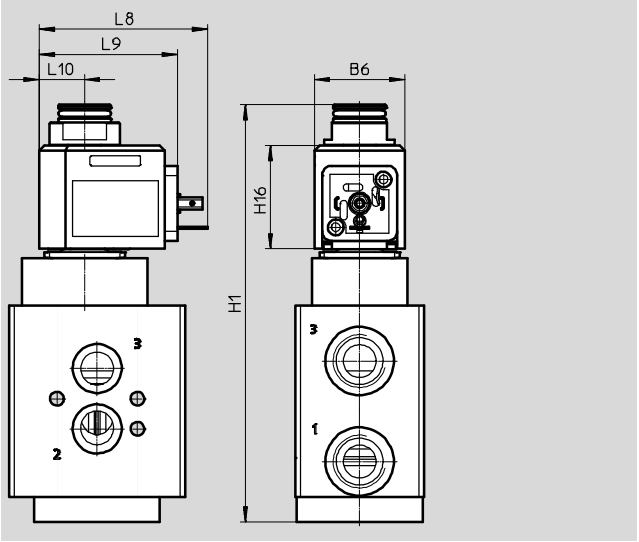


Type	B6	H1	H16	L8	L9	L10
VOFC-LT-...-18-A1-...	36	133	41	67	55	18
VOFC-LT-...-18-K4-...-EX4ME	37	133	41	125	111	18
VOFC-LT-...-11-K4-1-EX4A	37	133	41	125	98	18

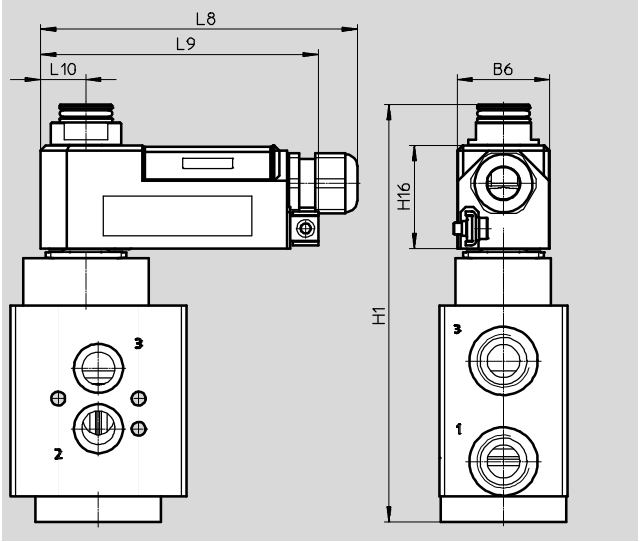
Dimensions Download CAD data ➔ **www.festo.com**

Valves with solenoid coil, pneumatic connection, size 1/2"

VOFC-LT-...-18-A1-...



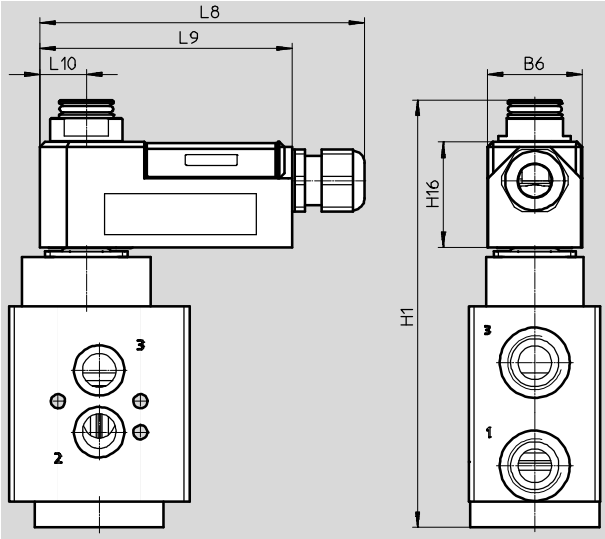
VOFC-LT-...-18-K4-...-EX4ME



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

Valves with solenoid coil, pneumatic connection, size 1/2"

VOFC-LT-...-11-K4-1-EX4A



Type	B6	H1	H16	L8	L9	L10
VOFC-LT-...-18-A1-...	36	166	41	67	55	18
VOFC-LT-...-18-K4-...-EX4ME	37	166	41	125	111	18
VOFC-LT-...-11-K4-1-EX4A	37	166	41	125	98	18

Solenoid valves VOFC-LT ... P3

Technical data – Modular system, poppet valves

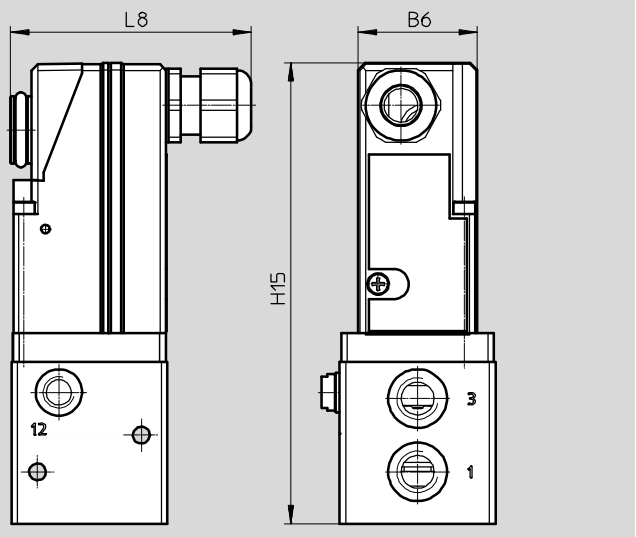
Solenoid valve, nozzle/baffle plate
(VOFC-...-P3-...)

Technical data, solenoid valve, nozzle/baffle plate			
Type		VOFC-...-P3-...-0.09-...-EX4A	VOFC-...-P3-...-0.4-...-EX4A
With pilot control unit		VACC-P3-0.09-K4-1-EX4A	VACC-P3-0.4-K4-1-EX4A
Design		Nozzle/baffle plate pilot control	
Operating voltage range	[V DC]	6.4 ... 40	16 ... 40
Degree of protection		IP 50	
Reverse polarity protection		Bipolar	
Duty cycle	[%]	100	
Max. input power Pi	[mW]	650	
Max. input voltage Ui	[V]	40	
Max. input current Ii	[mA]	200	
Effective internal capacitance Ci		Negligibly low	
Effective internal inductance Li		Negligibly low	
ATEX category for gas		II 2G	
Type of ignition protection for gas		Ex ia IIC T6, T5 Gb	
ATEX category for dust		II 2D	
Type of ignition protection for dust		Ex ia IIIC T85°C, T125°C Db	
Explosion-proof ambient temperature	[°C]	T5, T125: –40 ≤ Ta ≤ +70	
		T6, T85: –40 ≤ Ta ≤ +30	
Certificate issuing authority		BVS14ATEXE098X	
		IECEx BVS14.0063X	
		KGS15-GA4BO-0565X	
Notified body for quality testing		0344	
Explosion protection certification outside the EU		EPL Gb (IEC-EX)	
		EPL Db (IEC-EX)	
		EPL Gb (KR)	
		EPL Db (KR)	
CE marking (see declaration of conformity)		To EU Explosion Protection Directive (ATEX)	
Insulation class		H	
Electrical connection		Terminal box, cable entry, thread M20x1.5, conductor cross-section max. 1.5 mm^2, cable diameter 5-9 mm	
Information on materials for solenoid coil		PBT-reinforced, UP	

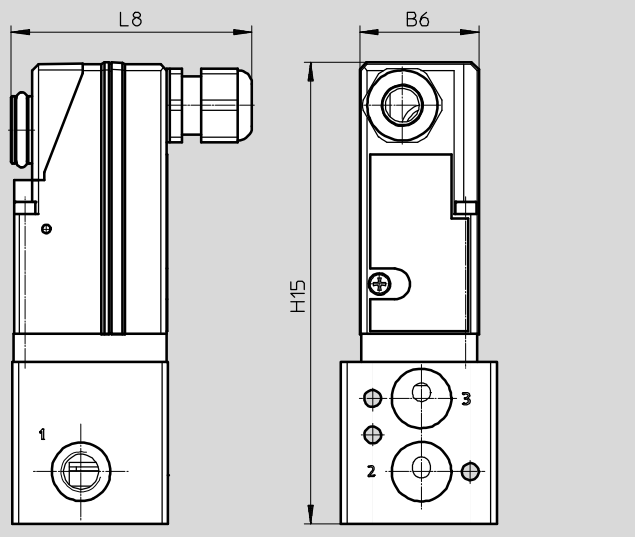
Dimensions Download CAD data ➔ **www.festo.com**

Solenoid valve with nozzle/baffle plate, pilot, pneumatic connection, size 1/4"

Port -G14/-N14



Port -FG14

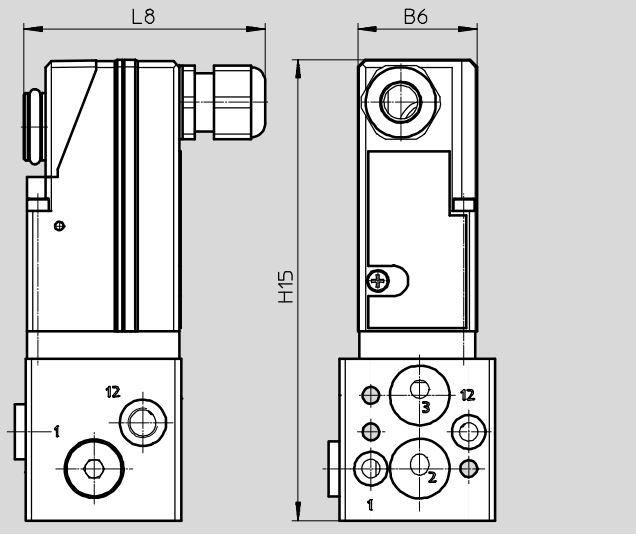


Type	B6	H15	L8
VOFC-LT-M32C-MC-G14-P3-0.4-1-K4-EX4A	39	151	77
VOFC-LT-M32C-MC-N14-P3-0.4-1-K4-EX4A			
VOFC-LT-M32C-MC-G14-P3-0.09-1-K4-EX4A			
VOFC-LT-M32C-MC-N14-P3-0.09-1-K4-EX4A			
VOFC-LT-M32C-M-FG14-P3-0.4-1-K4-EX4A			
VOFC-LT-M32C-M-FG14-P3-0.09-1-K4-EX4A			

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

Solenoid valve with nozzle/baffle plate, pilot, pneumatic connection, size 1/4"

Port -FGP14

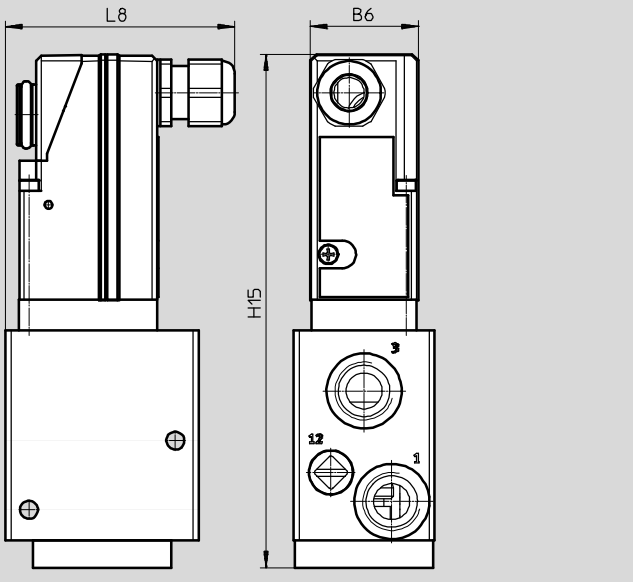


Type	B6	H15	L8
VOFC-LT-M32C-M-FGP14-P3-0.4-1-K4-EX4A	39	151	77
VOFC-LT-M32C-M-FGP14-P3-0.09-1-K4-EX4A			

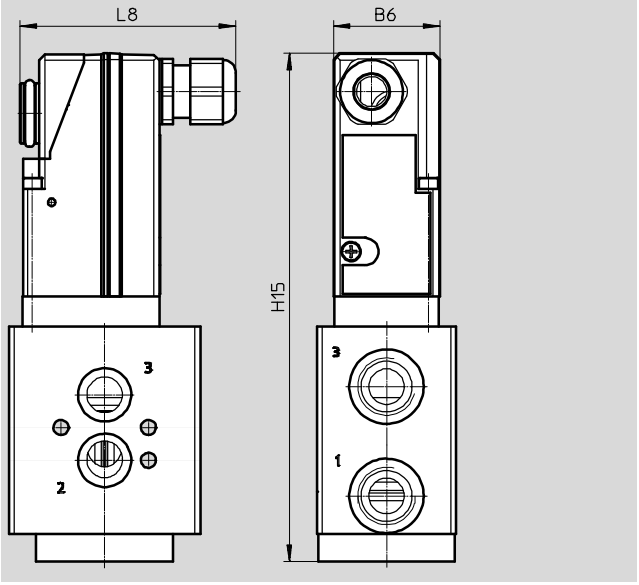
Dimensions Download CAD data ➔ **www.festo.com**

Solenoid valve with nozzle/baffle plate pilot, pneumatic connection, size 1/2"

Port -G12/-N12



Port -FG12

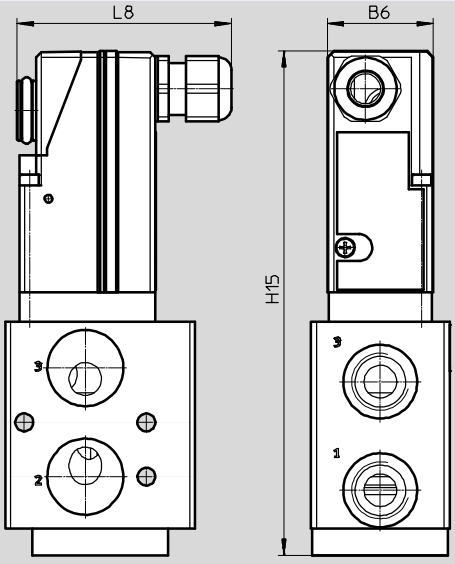


Type	B6	H15	L8
VOFC-LT-M32C-MC-G12-P3-0.4-1-K4-EX4A	39	185.9	79.9
VOFC-LT-M32C-MC-N12-P3-0.4-1-K4-EX4A			
VOFC-LT-M32C-MC-G12-P3-0.09-1-K4-EX4A			
VOFC-LT-M32C-MC-N12-P3-0.09-1-K4-EX4A			
VOFC-LT-M32C-M-FG12-P3-0.4-1-K4-EX4A			
VOFC-LT-M32C-M-FG12-P3-0.09-1-K4-EX4A			

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

Solenoid valve with nozzle/baffle plate pilot, pneumatic connection, size 1/2"

Port -FG13

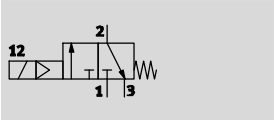


Type	B6	H15	L8
VOFC-LT-M32C-M-FG13-P3-0.4-1-K4-EX4A	39	185.9	79.9
VOFC-LT-M32C-M-FG13-P3-0.09-1-K4-EX4A			

Basic valves VOFC-LT … F19/F19A

Technical data – 3/2-way valves, poppet valve, single solenoid, G1/4 NAMUR

Function
3/2-way valve



Temperature range
–25 … +60 °C

Flow rate
766 l/min

General technical data					
		G1/4 basic valve, NAMUR	G1/4 basic valve, NAMUR, intrinsically safe	G1/4 basic valve, NAMUR, supply port	G1/4 basic valve, NAMUR, supply port, intrinsically safe
Valve function		3/2-way, single solenoid, closed			
Pneumatic connection	1	G1/4		M5 and port pattern to NAMUR	
	2	Flange 1/4 and port pattern to NAMUR			
	3	G1/4			
Design		Pilot-actuated piston poppet valve			
Width	[mm]	51			
Mounting position		Any			
Sealing principle		Hard			
Manual override		None			
Reset method		Mechanical spring			
Actuation type		Electrical			
Type of control		Pilot-actuated			
Pilot air supply		Internal		Internal, external	
Flow rate for piston valve pressurisation	[m^3/h]	0.5		0.5	
Flow rate for piston valve exhaust	[m^3/h]	0.8		0.65	
Flow direction		Non-reversible			
Product weight	[g]	600			
Switching time off	[ms]	18			
Switching time on	[ms]	24			
Nominal width	[mm]	6			
Standard nominal flow rate 1⟶2	[l/min.]	766			
Standard nominal flow rate 2⟶3	[l/min.]	1467			

Operating and environmental conditions					
		G1/4 basic valve, NAMUR	G1/4 basic valve, NAMUR, intrinsically safe	G1/4 basic valve, NAMUR, supply port	G1/4 basic valve, NAMUR, supply port, intrinsically safe
Operating medium		Compressed air to ISO 8573-1:2010 [7:–:–]			
Degree of protection		IP65			
Operating pressure range	[bar]	1 … 8			
Operating pressure range in case of external pilot air	[bar]	–		0 … 8	
Temperature of medium	[°C]	–25 … +60			
Ambient temperature	[°C]	–25 … +60			
Safety Integrity Level	[SIL]	Up to SIL3 Low Demand mode			
		Up to SIL3 High Demand mode			
Corrosion resistance class CRC[1)]		4			

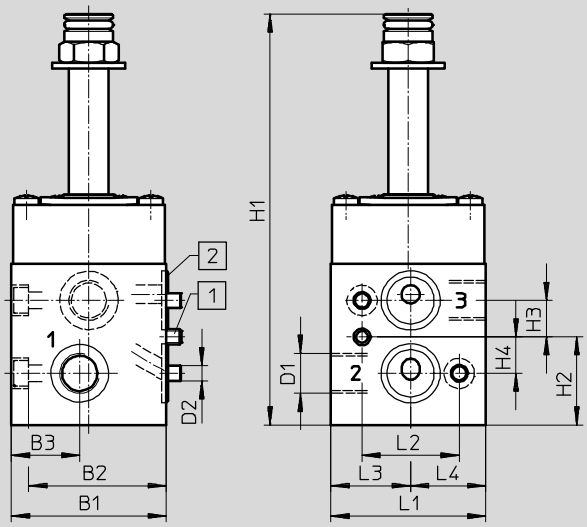
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (➔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

Basic valves VOFC-LT … F19/F19A

Technical data – 3/2-way valves, poppet valve, single solenoid, G1/4 NAMUR

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

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



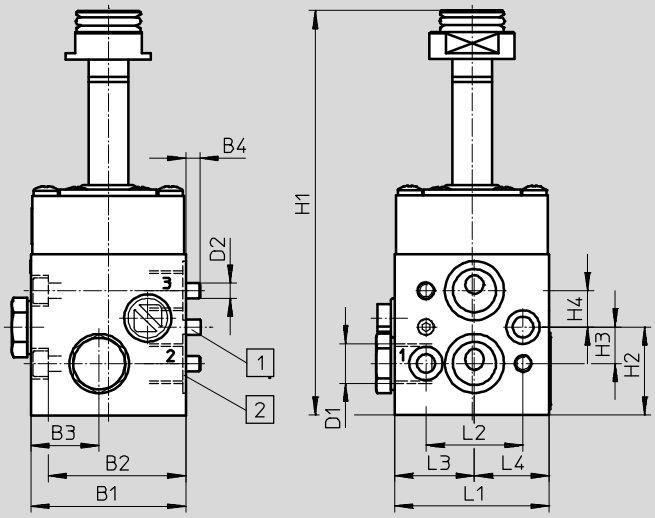
1 Coding pin M5x10
2 O-ring 16 x 2

Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4
VOFC-LT-M32C-M-FG14-F19	51	45.3	22.5	G1/4	5.5	135.3	29	12	12	51	32	26.3	24.7
VOFC-LT-M32C-M-FG14-F19A													

Basic valves VOFC-LT ... F19/F19A

Technical data – 3/2-way valves, poppet valve, single solenoid, G1/4 NAMUR

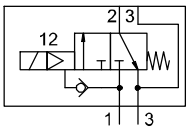
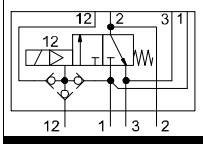
Dimensions Download CAD data ➔ **www.festo.com**



1 Coding pin M5x10
2 O-ring 16 x 2

Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	L1	L2	L3	L4
VOFC-LT-M32C-MC-FGP14-F19	51	45.3	22.5	4.7	NAMUR G1/4	M5	133.4	29	12	12	51	32	26.3	24.7
VOFC-LT-M32C-MC-FGP14-F19A														

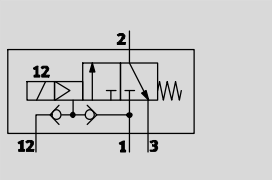
Ordering data

Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	3/2-way, single solenoid, closed	G1/4 and NAMUR	Without	**4514738**	**VOFC-LT-M32C-M-FG14-F19**
			Intrinsically safe	**4514739**	**VOFC-LT-M32C-M-FG14-F19A**
	3/2-way, single solenoid, closed	G1/4 and NAMUR, supply port	Without	**4514744**	**VOFC-LT-M32C-MC-FGP14-F19**
			Intrinsically safe	**4514745**	**VOFC-LT-M32C-MC-FGP14-F19A**

Basic valves VOFC-LT … F19/F19A

Technical data – 3/2-way valves, poppet valve, single solenoid, G1/4 sleeve

Function
3/2-way valve



- Temperature range
  –25 … +60 °C

- Flow rate
  766 l/min

General technical data					
		G1/4 basic valve	G1/4 basic valve, intrinsically safe	NPT basic valve	NPT basic valve, intrinsically safe
Valve function		3/2-way, single solenoid, closed			
Pneumatic connection	1	G1/4	G1/4	1/4 NPT	1/4 NPT
	2	G1/4	G1/4	1/4 NPT	1/4 NPT
	3	G1/4	G1/4	1/4 NPT	1/4 NPT
Design		Pilot-actuated piston poppet valve			
Width	[mm]	51			
Mounting position		Any			
Sealing principle		Hard			
Manual override		None			
Reset method		Mechanical spring			
Actuation type		Electrical			
Type of control		Pilot-actuated			
Pilot air supply port		Internal, external			
Flow rate for piston valve pressurisation	[m^3/h]	0.72			
Flow rate for piston valve exhaust	[m^3/h]	1.4			
Flow direction		Non-reversible			
Product weight	[g]	550			
Switching time off	[ms]	18			
Switching time on	[ms]	24			
Nominal width	[mm]	6			
Standard nominal flow rate 1→2	[l/min.]	766			
Standard nominal flow rate 2→3	[l/min.]	1467			

Operating and environmental conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [7:–:–]
Degree of protection		IP65
Operating pressure range	[bar]	1 … 8
Operating pressure range in case of external pilot air	[bar]	0 … 8
Temperature of medium	[°C]	–25 … +60
Ambient temperature	[°C]	–25 … +60
Safety Integrity Level	[SIL]	Up to SIL3 Low Demand mode
		Up to SIL3 High Demand mode
Corrosion resistance class CRC[1)]		4

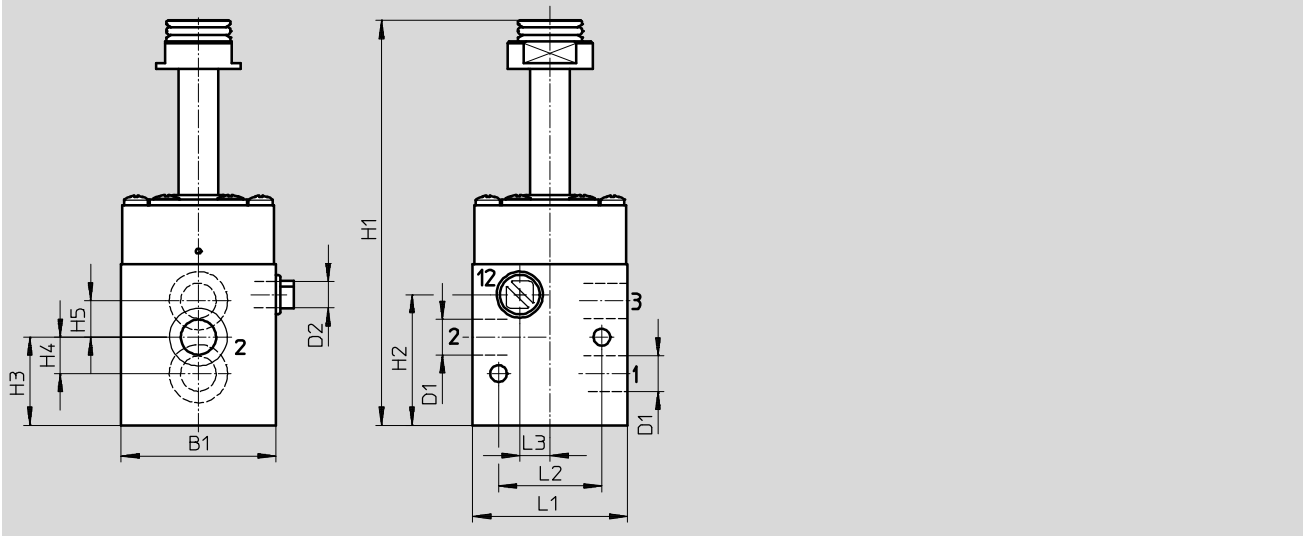
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→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

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

Basic valves VOFC-LT ... F19/F19A

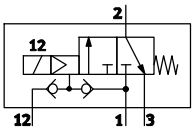
Technical data – 3/2-way valves, poppet valve, single solenoid, G1/4 sleeve

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



Type	B1	D1	D2	H1	H2	H3	H4	H5	L1	L2	L3
VOFC-LT-M32C-MC-G14-F19	51	G1/4	G1/8	133	43	29	12	12	51	34	10
VOFC-LT-M32C-MC-G14-F19A											
VOFC-LT-M32C-MC-N14-F19		1/4NPT	1/8NPT								
VOFC-LT-M32C-MC-N14-F19A											

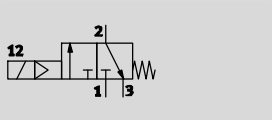
Ordering data

Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	3/2-way, single solenoid, closed	G1/4	Without	**4514740**	**VOFC-LT-M32C-MC-G14-F19**
			Intrinsically safe	**4514741**	**VOFC-LT-M32C-MC-G14-F19A**
		1/4 NPT	Without	**4514742**	**VOFC-LT-M32C-MC-N14-F19**
			Intrinsically safe	**4514743**	**VOFC-LT-M32C-MC-N14-F19A**

Basic valves VOFC-LT … F19/F19A

Technical data – 3/2-way valve, poppet valve, single solenoid, G1/2 NAMUR

Function
3/2-way valve



- Temperature range
  –25 … +60 °C

- Flow rate
  2868 l/min

General technical data				
			VOFC-…-FG12-F19 VOFC-…-FG12-F19A	VOFC-…-FG13-F19 VOFC-…-FG13-F19A
Valve function			3/2-way, single solenoid, closed	
Pneumatic connection	1		G1/2	
	2		Flange 1/4 and port pattern to NAMUR	Flange 1/2 and port pattern to NAMUR
	3		G1/2	
Design			Pilot-actuated piston poppet valve	
Width		[mm]	51	
Mounting position			Any	
Sealing principle			Hard	
Manual override			None	
Reset method			Mechanical spring	
Actuation type			Electrical	
Type of control			Pilot-actuated	
Pilot air supply			Internal	Internal, external
Flow rate for piston valve pressurisation		[m^3/h]	2.4	
Flow rate for piston valve exhaust		[m^3/h]	3.3	
Flow direction			Non-reversible	
Product weight		[g]	880	900
Switching time off		[ms]	14	
Switching time on		[ms]	25	
Nominal width		[mm]	12	
Standard nominal flow rate 1→2		[l/min.]	2686	
Standard nominal flow rate 2→3		[l/min.]	3462	

Operating and environmental conditions				
			VOFC-…-FG12-F19 VOFC-…-FG12-F19A	VOFC-…-FG13-F19 VOFC-…-FG13-F19A
Operating medium			Compressed air to ISO 8573-1:2010 [7:–:–]	
Degree of protection			IP65	
Operating pressure range		[bar]	2 … 8	
Operating pressure range in case of external pilot air		[bar]	–	0 … 8
Temperature of medium		[°C]	–25 … +60	
Ambient temperature		[°C]	–25 … +60	
Safety Integrity Level		[SIL]	Up to SIL3 Low Demand mode	
			Up to SIL3 High Demand mode	
Corrosion resistance class CRC[1)]			4	

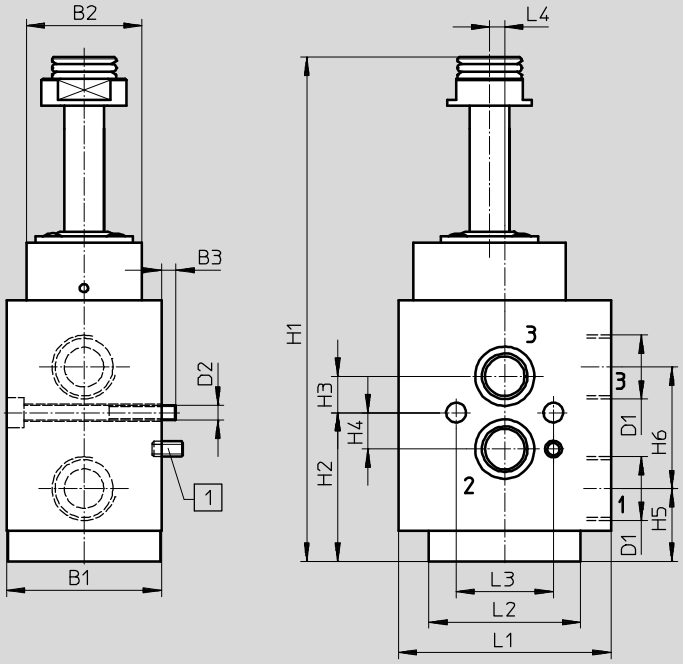
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→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

Basic valves VOFC-LT … F19/F19A

Technical data – 3/2-way valve, poppet valve, single solenoid, G1/2 NAMUR

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

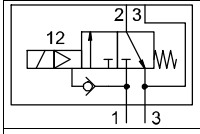
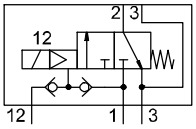
Dimensions Download CAD data ➔ **www.festo.com**



1 Coding pin M5x10

Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	H5	H6	L1	L2	L3	L4
VOFC-LT-M32C-M-FG12-F19	51	38	4.7	G1/2	M5	166	49	12	12	24	40	70	50	32	5
VOFC-LT-M32C-M-FG12-F19A															
VOFC-LT-M32C-MC-FG13-F19															
VOFC-LT-M32C-MC-FG13-F19A															

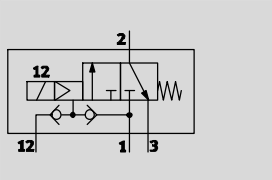
Ordering data

Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	3/2-way, single solenoid, closed	G1/2 and NAMUR	Without	**4514746**	**VOFC-LT-M32C-M-FG12-F19**
			Intrinsically safe	**4514747**	**VOFC-LT-M32C-M-FG12-F19A**
	3/2-way, single solenoid, closed	G1/2 Flange 1/2 (port pattern to NAMUR) G1/2	Without	**4527268**	**VOFC-LT-M32C-MC-FG13-F19**
			Intrinsically safe	**4527269**	**VOFC-LT-M32C-MC-FG13-F19A**

Basic valves VOFC-LT ... F19/F19A

Technical data – 3/2-way valve, poppet valve, single solenoid, G1/2 sleeve

Function
3/2-way valve



Temperature range
–25 ... +60 °C

Flow rate
2686 l/min

General technical data		
Valve function		3/2-way, single solenoid, closed
Pneumatic connection	1	G1/2
	2	G1/2
	3	G1/2
Design		Pilot-actuated piston poppet valve
Width	[mm]	51
Mounting position		Any
Sealing principle		Hard
Manual override		None
Reset method		Mechanical spring
Actuation type		Electrical
Type of control		Pilot-actuated
Pilot air supply		Internal, external
Flow rate for piston valve pressurisation	[m^3/h]	2.4
Flow rate for piston valve exhaust	[m^3/h]	3.3
Flow direction		Non-reversible
Product weight	[g]	880
Switching time off	[ms]	14
Switching time on	[ms]	25
Nominal width	[mm]	12
Standard nominal flow rate 1⟶2	[l/min.]	2686
Standard nominal flow rate 2⟶3	[l/min.]	3462

Operating and environmental conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [7:–:–]
Degree of protection		IP65
Operating pressure range	[bar]	2 ... 8
Operating pressure range in case of external pilot air	[bar]	0 ... 8
Temperature of medium	[°C]	–25 ... +60
Ambient temperature	[°C]	–25 ... +60
Safety Integrity Level	[SIL]	Up to SIL3 Low Demand mode
		Up to SIL3 High Demand mode
Corrosion resistance class CRC[1)]		4

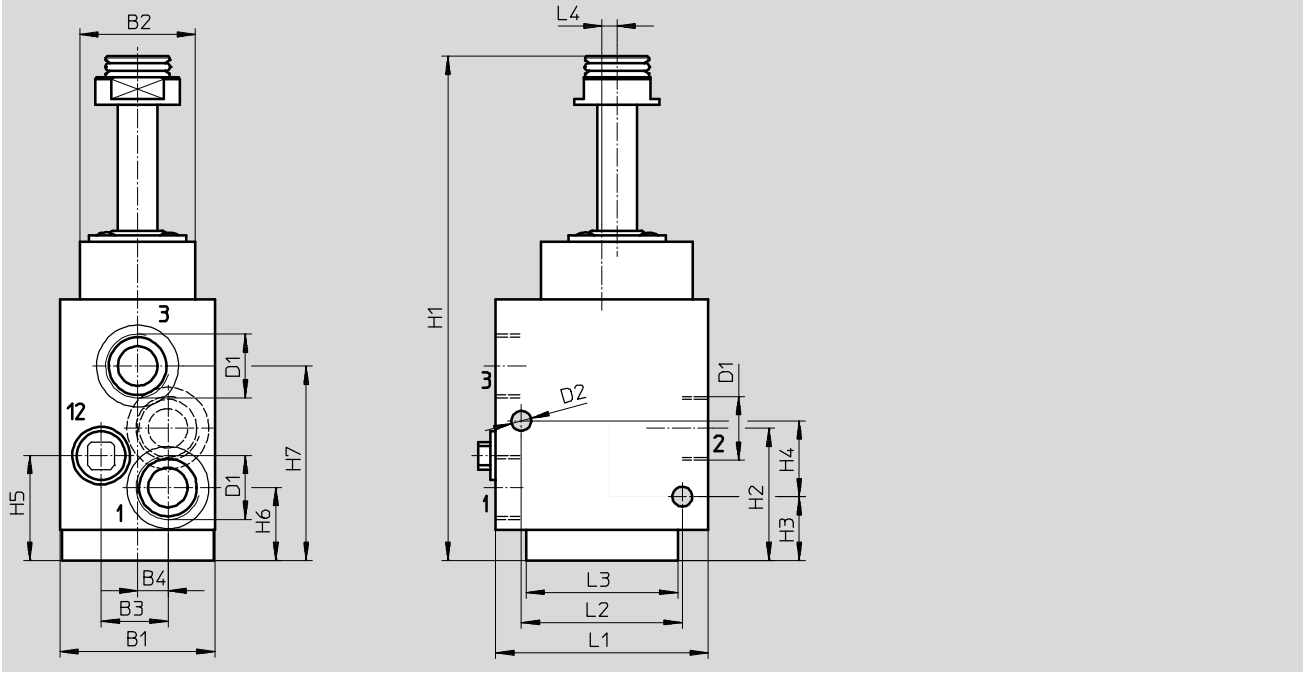
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (➔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

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

Basic valves VOFC-LT ... F19/F19A

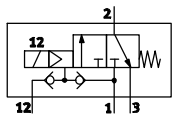
Technical data – 3/2-way valve, poppet valve, single solenoid, G1/2 sleeve

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



Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	L1	L2	L3	L4
VOFC-LT-M32C-MC-G12-F19	51	37	22	10	G1/2	6.5	166	43.5	21	25	34.5	70	53	50	5
VOFC-LT-M32C-MC-G12-F19A															

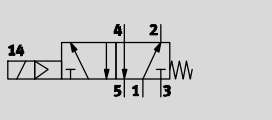
Ordering data

Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	3/2-way, single solenoid, closed	G1/2	Without	**4514748**	**VOFC-LT-M32C-MC-G12-F19**
			Intrinsically safe	**4514749**	**VOFC-LT-M32C-MC-G12-F19A**

Basic valves VOFC-L ... F19/F19A

Technical data – 5/2-way valve, piston spool, single solenoid, G1/4 NAMUR

Function
5/2-way valve



- Temperature range
  –25 ... +60 °C

- Flow rate
  1030 l/min

General technical data		
Valve function		5/2-way, single solenoid
Pneumatic connection	1	G1/4
	2	G1/4 and port pattern to NAMUR
	3	G1/4
	4	G1/4 and port pattern to NAMUR
	5	G1/4
Design		Piston spool valve
Mounting position		Any
Width	[mm]	40
Sealing principle		Soft
Manual override		None
Reset method		Mechanical spring
Actuation type		Electrical
Type of control		Pilot-actuated
Pilot air supply		Internal
Flow rate for piston valve pressurisation	[m^3/h]	1.08
Flow rate for piston valve exhaust	[m^3/h]	1.08
Flow direction		Non-reversible
Product weight	[g]	520
Switching time off	[ms]	22
Switching time on	[ms]	26
Nominal width	[mm]	6
Standard nominal flow rate 1→2	[l/min.]	1030
Standard nominal flow rate 2→3	[l/min.]	978

Operating and environmental conditions		
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Degree of protection		IP65
Operating pressure range	[bar]	2.5 ... 8
Temperature of medium	[°C]	–25 ... +60
Ambient temperature	[°C]	–25 ... +60
Safety Integrity Level	[SIL]	Up to SIL2 Low Demand mode
		Up to SIL2 High Demand mode
Corrosion resistance class CRC[1)]		4

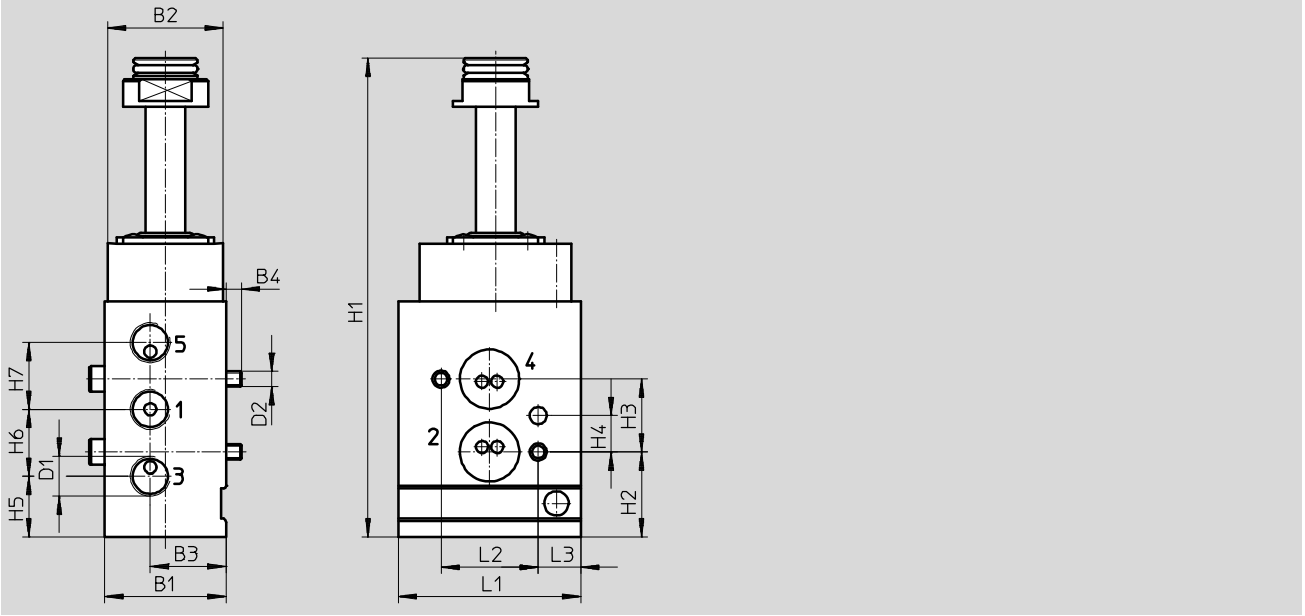
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→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

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

Basic valves VOFC-L ... F19/F19A

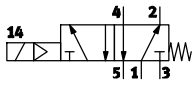
Technical data – 5/2-way valve, piston spool, single solenoid, G1/4 NAMUR

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



Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	H6	H7	L1	L2	L3
VOFC-L-M52-M-FG14-F19	40	38	25	5	G1/4	M5	158	28	24	12	20	22	22	60	32	14
VOFC-L-M52-M-FG14-F19A																

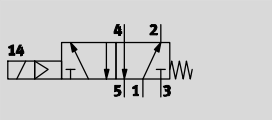
Ordering data

Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	5/2-way, single solenoid	G1/4 and NAMUR	Without	**4514923**	**VOFC-L-M52-M-FG14-F19**
			Intrinsically safe	**4514924**	**VOFC-L-M52-M-FG14-F19A**

Basic valves VOFC-L ... F19/F19A

Technical data – 5/2-way valve, piston spool, single solenoid, G1/4 sleeve

Function
5/2-way valve



Temperature range
–25 ... +60 °C

Flow rate
1030 l/min

General technical data		
Valve function		5/2-way, single solenoid
Pneumatic connection	1	G1/4
	2	G1/4
	3	G1/4
	4	G1/4
	5	G1/4
Design		Piston spool valve
Mounting position		Any
Width	[mm]	40
Sealing principle		Soft
Manual override		None
Reset method		Mechanical spring
Actuation type		Electrical
Type of control		Pilot-actuated
Pilot air supply		Internal
Flow rate for piston valve pressurisation	[m^3/h]	1.08
Flow rate for piston valve exhaust	[m^3/h]	1.08
Flow direction		Non-reversible
Product weight	[g]	520
Switching time off	[ms]	22
Switching time on	[ms]	26
Nominal width	[mm]	6
Standard nominal flow rate 1→2	[l/min.]	1030
Standard nominal flow rate 2→3	[l/min.]	978

Operating and environmental conditions		
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Degree of protection		IP65
Operating pressure range	[bar]	2.5 ... 8
Temperature of medium	[°C]	–25 ... +60
Ambient temperature	[°C]	–25 ... +60
Safety Integrity Level	[SIL]	Up to SIL2 Low Demand mode
		Up to SIL2 High Demand mode
Corrosion resistance class CRC[1)]		4

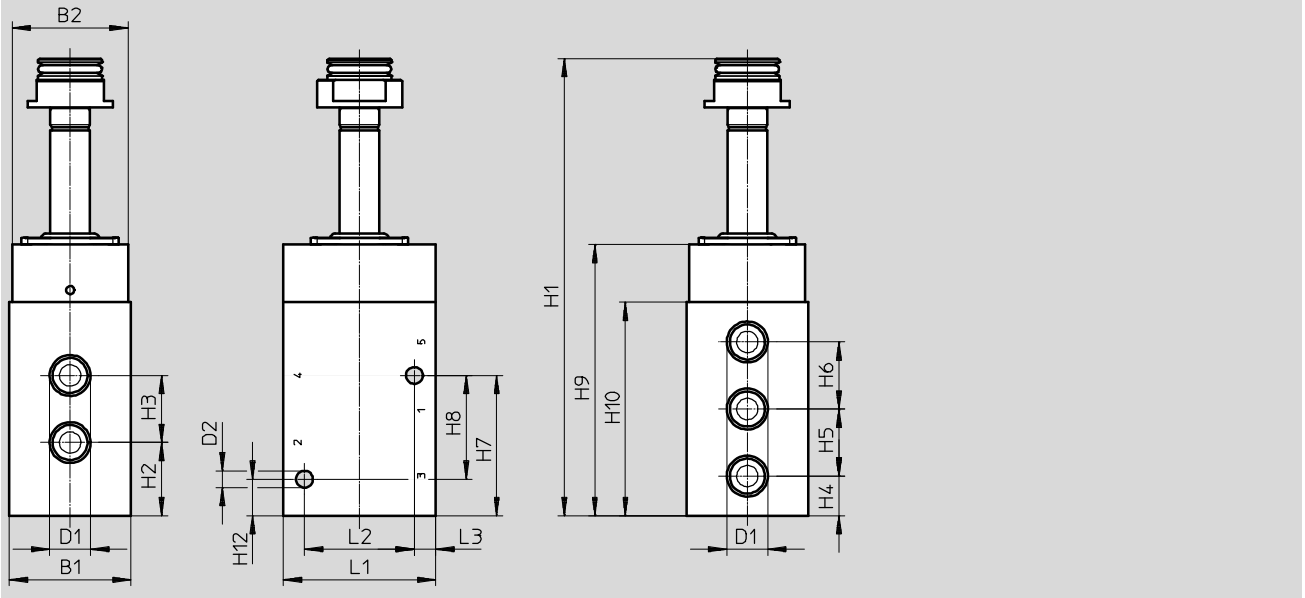
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→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

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

Basic valves VOFC-L ... F19/F19A

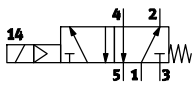
Technical data – 5/2-way valve, piston spool, single solenoid, G1/4 sleeve

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



Type	B1	B2	D1	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H13	L1	L2	L3
VOFC-L-M52-M-G14-F19	40	38	G1/4	5.5	150	24	22	13	22	22	46	34	89	70	12	50	36	7
VOFC-L-M52-M-G14-F19A																		

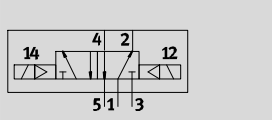
Ordering data

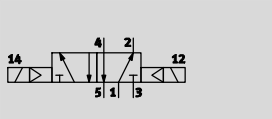
Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	5/2-way, single solenoid	G1/4	Without	**4514925**	**VOFC-L-M52-M-G14-F19**
				4514926	**VOFC-L-M52-M-G14-F19A**

Basic valves VOFC-L ... F19/F19A

Technical data – 5/2-way valves, piston spool, double solenoid, G1/4, NAMUR

Function
5/2-way valve





- Temperature range
  –25 ... +60 °C

- Flow rate
  989 l/min

General technical data				
			G1/4, NAMUR	G1/4
Valve function			5/2-way, double solenoid	
Pneumatic connection	1		G1/4	G1/4
	2		Flange 1/4 and port pattern to NAMUR	G1/4
	3		G1/4	G1/4
	4		Flange 1/4 and port pattern to NAMUR	G1/4
	5		G1/4	G1/4
Design			Piston spool valve	
Mounting position			Any	
Width		[mm]	40	
Sealing principle			Soft	
Manual override			None	
Actuation type			Electrical	
Type of control			Pilot-actuated	
Pilot air supply port			Internal	
Flow rate for piston valve pressurisation		[m^3/h]	1.08	
Flow rate for piston valve exhaust		[m^3/h]	1.08	
Flow direction			Non-reversible	
Product weight		[g]	680	790
Switching time off		[ms]	22	
Switching time on		[ms]	26	
Max. switching frequency		[Hz]	1	
Nominal width		[mm]	6	
Standard nominal flow rate 1⟶2		[l/min.]	989	
Standard nominal flow rate 2⟶3		[l/min.]	978	

Operating and environmental conditions		
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Degree of protection		IP65
Operating pressure range	[bar]	2.5 ... 8
Temperature of medium	[°C]	–25 ... +60
Ambient temperature	[°C]	–25 ... +60
Safety Integrity Level	[SIL]	Up to SIL 2 Low Demand mode
		Up to SIL 2 High Demand mode
Corrosion resistance class CRC[1)]		4

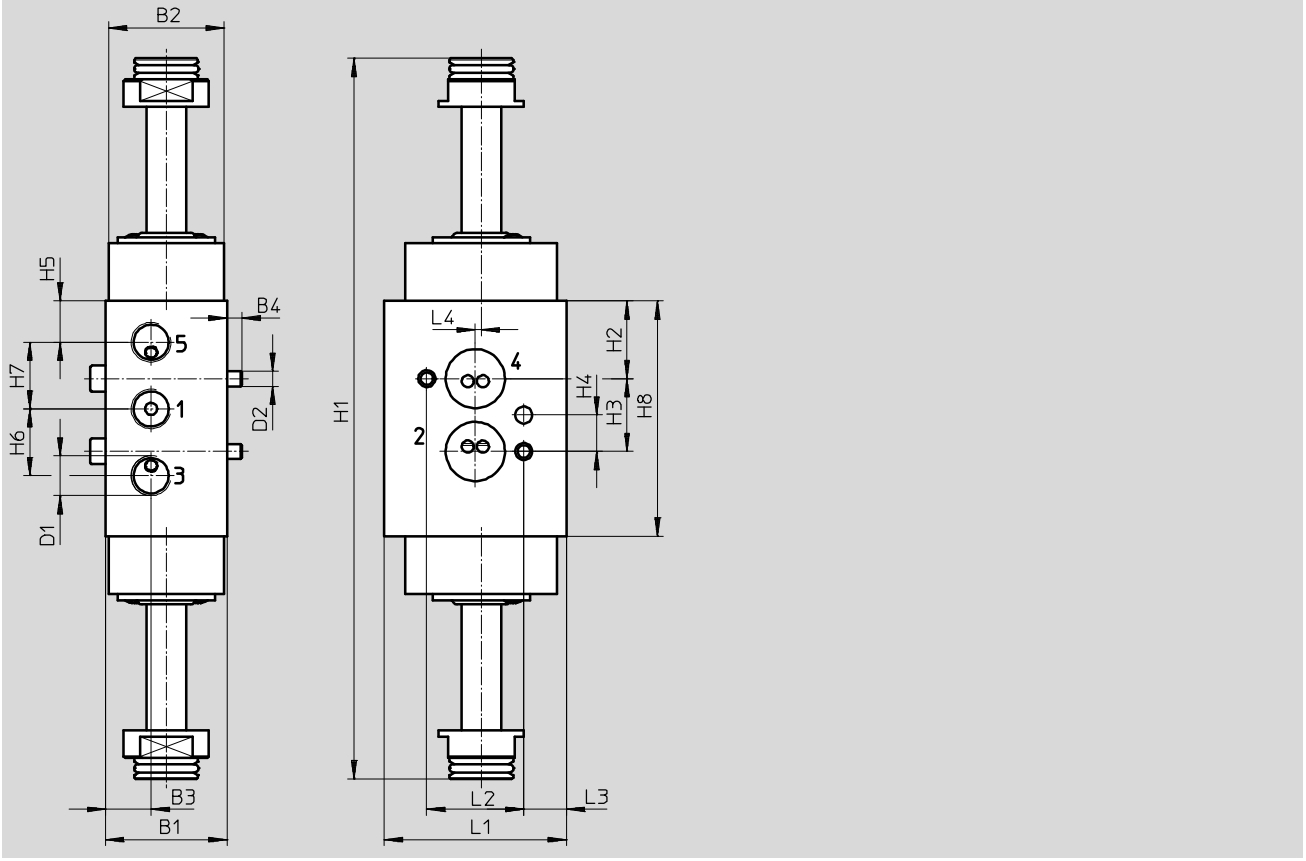
1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (➔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

Materials	
Housing	Aluminium (Ematal coated)
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS-compliant

Basic valves VOFC-L ... F19/F19A

Technical data – 5/2-way valves, piston spool, double solenoid, G1/4, NAMUR

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

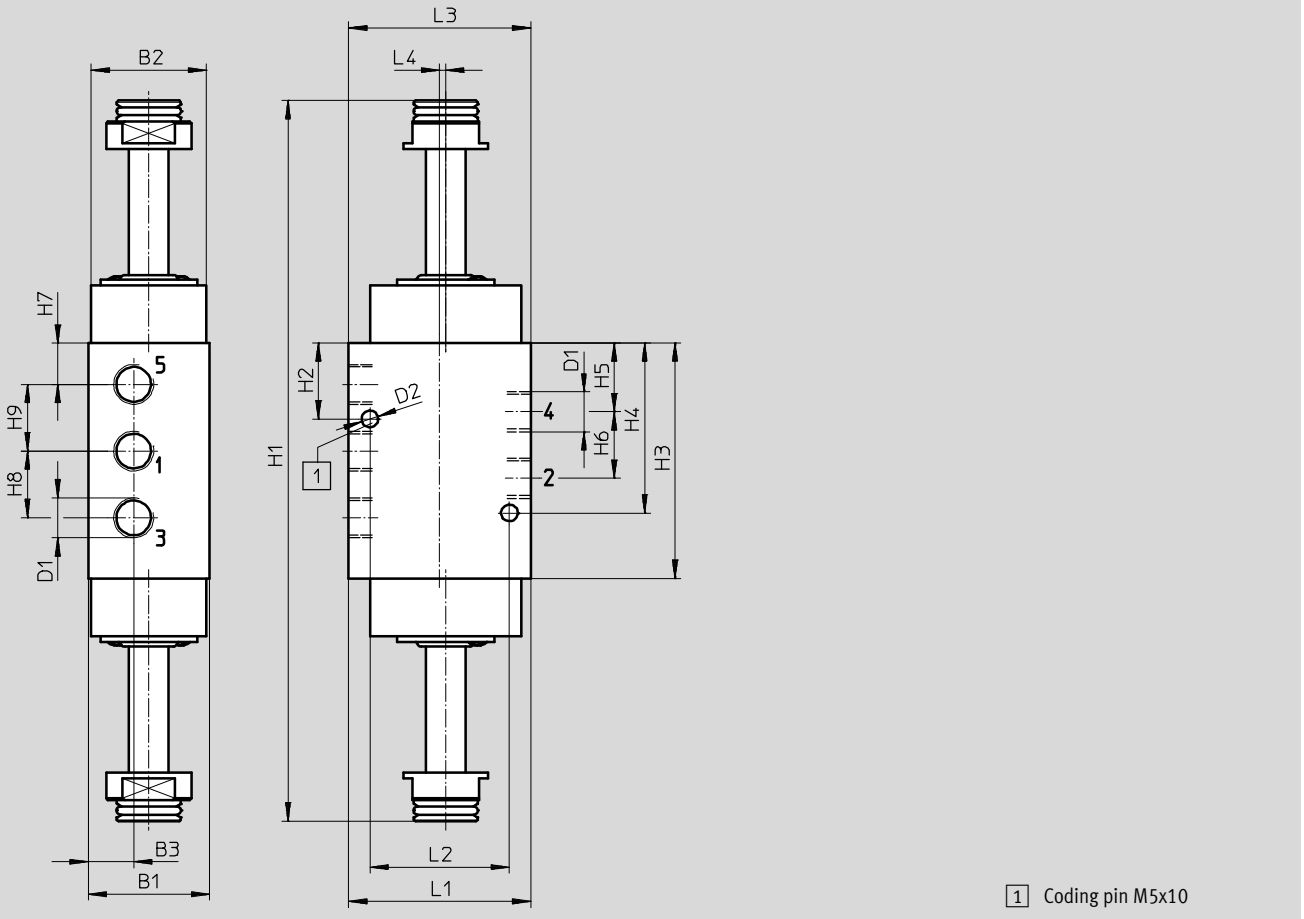


Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2	L3	L4
VOFC-L-B52-FG14-F19	40	38	15	5	G1/4	M5	237.6	25.6	24	12	13.6	22	22	77.6	60	32	14	2
VOFC-L-B52-FG14-F19A																		

Basic valves VOFC-L ... F19/F19A

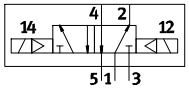
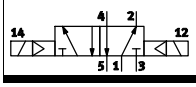
Technical data – 5/2-way valves, piston spool, double solenoid, G1/4, NAMUR

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



Type	B1	B2	B3	D1	D2	H1	H2	H3	H4	H5	H6	H7	H8	H9	L1	L2	L3	L4
VOFC-L-B52-G14-F19	40	38	15	G1/4	5.5	240	25	77.6	56	22.6	22	13.6	22	22	60	46	60	2
VOFC-L-B52-G14-F19A																		

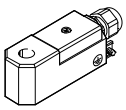
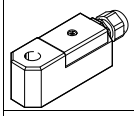
Ordering data

Circuit symbol	Function	Pneumatic connection	Type of ignition protection	Part No.	Type
In-line valve					
	5/2-way, double solenoid	G1/4 and NAMUR	Without	**4514929**	**VOFC-L-B52-FG14-F19**
			Intrinsically safe	**4514930**	**VOFC-L-B52-FG14-F19A**
	5/2-way, double solenoid	G1/4	Without	**4514927**	**VOFC-L-B52-G14-F19**
			Intrinsically safe	**4514928**	**VOFC-L-B52-G14-F19A**

Solenoid coils VACC

Accessories – Solenoid coils S13

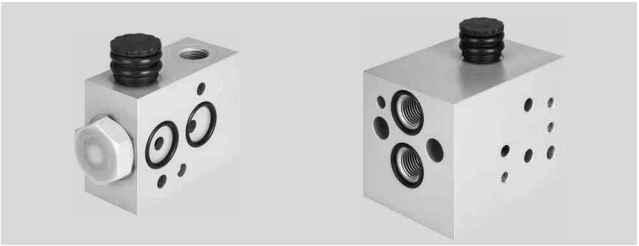
FESTO

Ordering data				
	Description		Part No.	Type
	EX4-ME coil, terminal box, cable entry thread, metric M20x1.5	24 V AC/DC	**562893**	**VACC-S13-18-K4-1U-EX4ME**
		24 V AC/DC	**570784**	**VACC-S13-18-K4-1UF-EX4ME**
		60 V AC/DC	**8040578**	**VACC-S13-18-K4-27U-EX4ME**
		110 V AC/DC	**562894**	**VACC-S13-18-K4-2U-EX4ME**
		230 V AC/DC	**562895**	**VACC-S13-18-K4-3U-EX4ME**
	EX4A coil, terminal box, cable entry thread, metric M20x1.5	14 ... 32 V DC	**562896**	**VACC-S13-11-K4-1-EX4A**
	A1 coil, plug to EN 175301-803, design A	24 V DC	**562889**	**VACC-S13-18-A1-1**
		24 V AC/DC	**562890**	**VACC-S13-18-A1-1U**
		110 V AC/DC	**562891**	**VACC-S13-18-A1-2U**
		230 V AC/DC	**562892**	**VACC-S13-18-A1-3U**

Sub-bases

Accessories – Sub-base VABS-S7-RB/BE-...

Port pattern: NAMUR



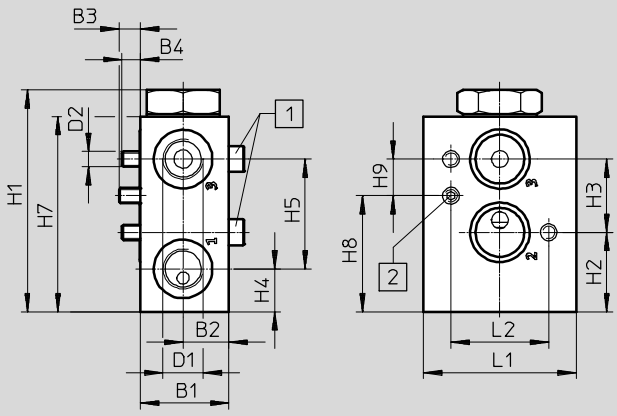
General technical data			
Type		Pressurisation and exhaust block, with flange ¼, port pattern to NAMUR, VABS-S7-BE-...	Redundancy block VABS-S7-RB-...
Type of mounting		With through-hole	
Mounting position		Any	
Flow rate for piston valve pressurisation	[m³/h]	2.2	–
Flow rate for piston valve exhaust	[m³/h]	8.6	–
Product weight	[g]	250	–
Pneumatic connection	1	G1/4, 1/4 NPT	G1/4, 1/4 NPT
	2	Flange 1/4, port pattern to NAMUR	Flange 1/4, port pattern to NAMUR
	3	G1/4, 1/4 NPT	G1/4, 1/4 NPT
	12	–	G1/4, 1/4 NPT

Operating and environmental conditions		VABS-S7-BE	VABS-S7-RB
Operating medium		Compressed air to ISO 8573-1:2010 [–:–:–]	
Operating pressure	[bar]	2 ... 8	0 ... 10
Pilot air supply		Internal	External/internal
Degree of protection		IP65 (when installed)	
Corrosion resistance class CRC[1)]		4	

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

Materials	
Sub-base	Aluminium, Ematal coated
Seals	NBR
Note on materials	Contains paint-wetting impairment substances, RoHS compliant

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

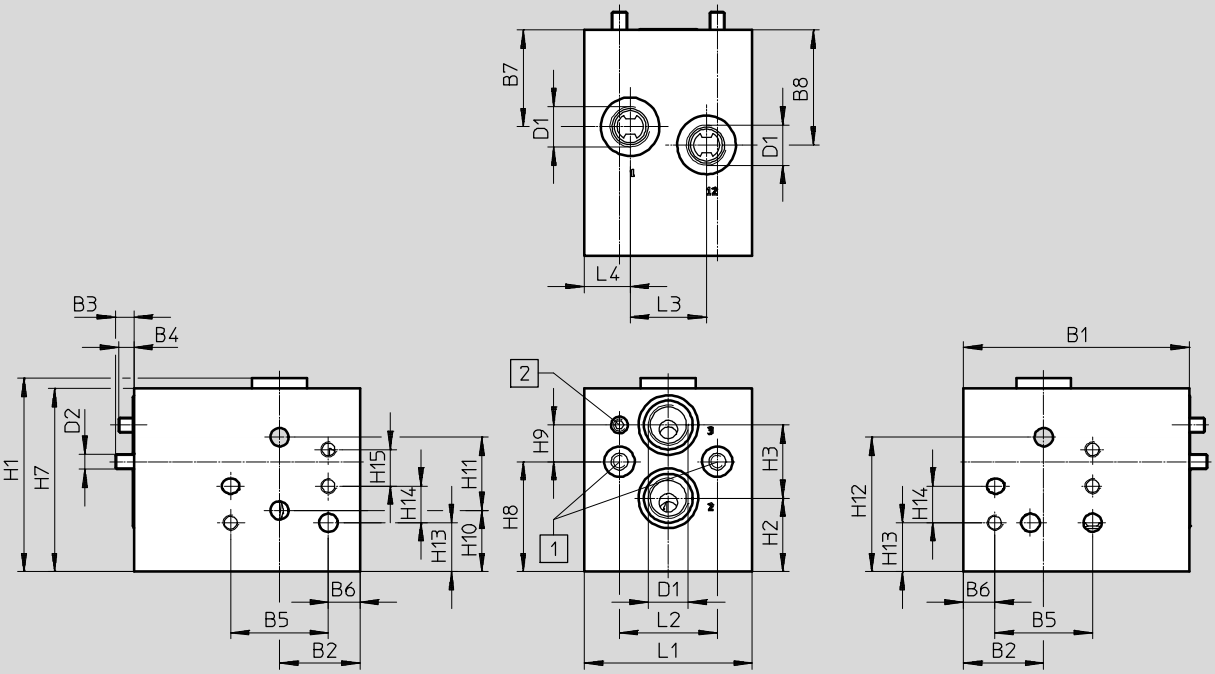


1 Socket head screw M5x35

2 Threaded pin M5x10

Type	B1	B2	B3	B4	D1	D2	H1	H2	H3	H4	H5	H7	H8	H9	L1	L2
VABS-S7-BE-B-G14-V14-A	29	15	7	6	G1/4	M5	72.7	26	24	14	36	64	38	12	50	32
VABS-S7-BE-B-N14-V14-A					1/4 NPT											

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

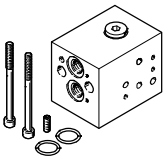
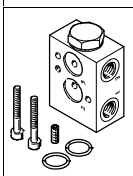


1 Socket head screw M5x70 2 Threaded pin M5x10

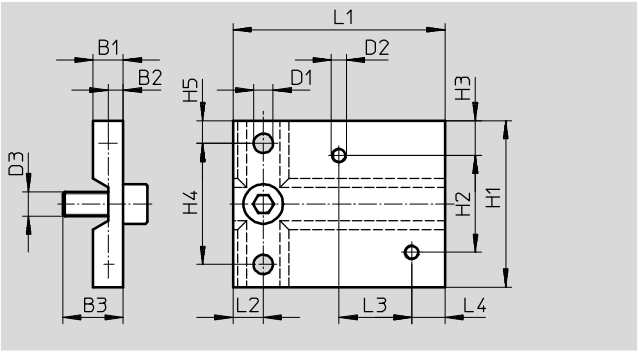
Type	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	L1	L2	L3	L4
VABS-S7-RB-B-G14-V14-A	74	26.3	6	5	32	10.3	31.7	37.7	G1/4	M5	55	32	25	15
VABS-S7-RB-B-N14-V14-A									1/4 NPT					

Type	H1	H2	H3	H7	H8	H9	H10	H11	H12	H13	H14	H15
VABS-S7-RB-B-G14-V14-A	63.4	24	24	60	36	12	20	24	44	16	12	12
VABS-S7-RB-B-N14-V14-A												

Ordering data

	Description	Part No.	Type
	Sub-base for mounting two solenoid valves with a G thread port for redundant circuitry, with flange 1/4, port pattern to NAMUR With the auxiliary air supply connection, the intermediate plate can be used for fail-safe functions, also in the case of piloted solenoid valves and actuators with positioners.	**3580505**	**VABS-S7-RB-B-G14-V14-A**
	Sub-base the mounting two solenoid valves with an NPT thread port for redundant circuitry, with flange 1/4, port pattern to NAMUR With the auxiliary air supply connection, the intermediate plate can be used for fail-safe functions, also in the case of piloted solenoid valves and actuators with positioners.	**4727331**	**VABS-S7-RB-B-N14-V14-A**
	Sub-base as pressurisation and exhaust block with G threaded port, with flange 1/4, port pattern to NAMUR	**2999476**	**VABS-S7-BE-B-G14-V14-A**
	Sub-base as pressurisation and exhaust block with NPT thread port, with flange 1/4, port pattern to NAMUR	**4727328**	**VABS-S7-BE-B-N14-V14-A**

Mounting plate VAME-S7-P
Mounting plate material: aluminium, Ematal coated
Contains paint-wetting impairment substances, RoHS-compliant
Mounting: With through-hole



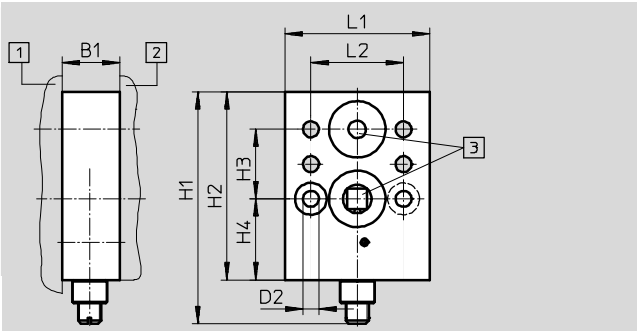
Dimensions [mm] and ordering data

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	4	**563399**	**VAME-S7-P**

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

Flow control plate for single-acting actuators
Flow control plate material: Aluminium, Ematal coated
Material of seals: NBR
Contains paint-wetting impairment substances, RoHS-compliant
Operating medium: Compressed air to ISO 8573-1:2010 [7:–:–]
Operating pressure: 0 ... 12 bar
Pilot air supply: Internal/external
Mounting position: Any
Mounting: With through-hole
Degree of protection: IP65 (when installed)

Function:
Supply air flow control and/or exhaust air flow control of an actuator with a NAMUR interface for VOFC/VOFD valves



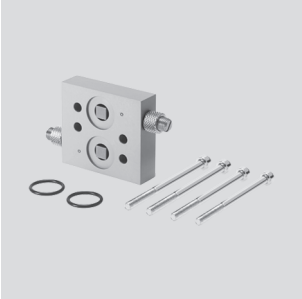
1 Actuator
2 Valve
3 Working ports for G¼ and ¼ NPT valves

Dimensions [mm] and ordering data

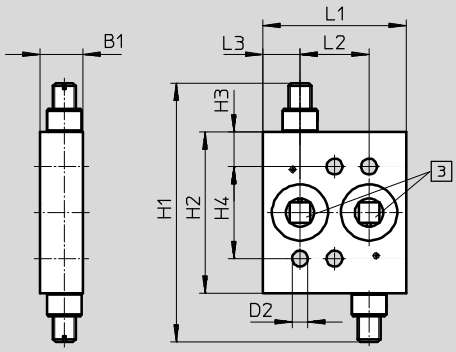
B1	D2	H1	H2	H3	H4	L1	L2	CRC[1]	Part No.	Type
20	5.5	80	65	24	28	50	32	4	**563401**	**VABF-S7-F1B5P1-F**

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

Flow control plate for double-acting actuators
Flow control plate material:
Aluminium, Ematal coated
Material of seals: NBR
Contains paint-wetting impairment substances, RoHS-compliant
Operating medium: Compressed air to ISO 8573-1:2010 [7:–:–]
Operating pressure: 0 ... 12 bar
Pilot air supply: Internal/external
Mounting position: Any
Mounting: With through-hole
Degree of protection: IP65
(when installed)



Function:
2-duct exhaust air flow control of an actuator with NAMUR interface



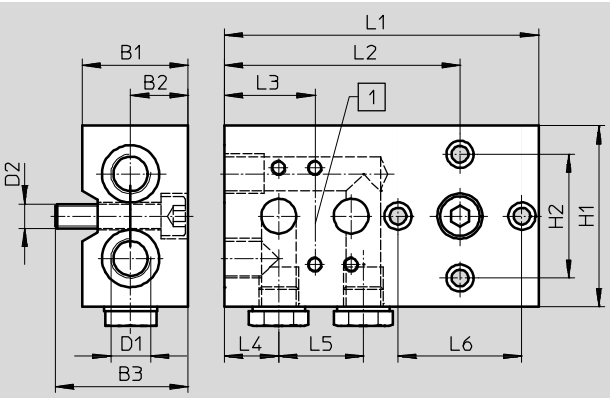
3 Working ports for G¼ and ¼ NPT valves

Dimensions [mm] and ordering data

B1	D2	H1	H2	H3	H4	L1	L2	L3	CRC[1]	Part No.	Type
15	5.5	90	56	12	32	50	24	13	4	**563395**	**VABF-S7-F1B1P2-F**

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

Sub-base
Sub-base material: Aluminium, Ematal coated
Material of seals: NBR
Contains paint-wetting impairment substances, RoHS-compliant
Operating medium: Compressed air to ISO 8573-1:2010 [7:–:–]
Operating pressure: 0 ... 10 bar
Mounting position: Any
Mounting: With through-hole
Degree of protection: IP65
(when installed)



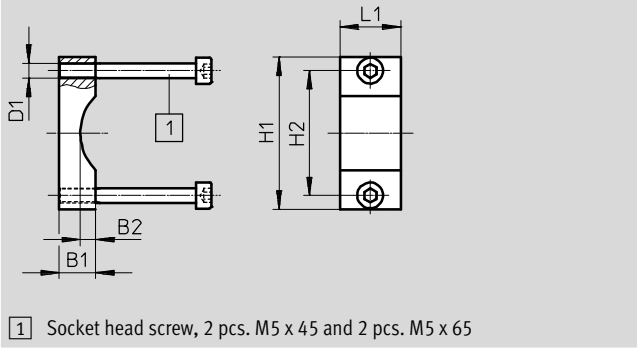
1 NAMUR flange

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	78	30	18	28	41	4	**563396**	**VABS-S7-S-G14**

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

Mounting bracket
Mounting bracket material:
Aluminium, Ematal coated
Contains paint-wetting impairment substances, RoHS-compliant

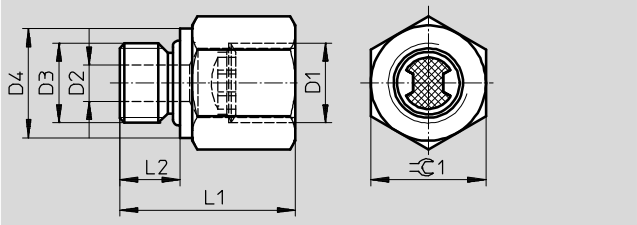


1 Socket head screw, 2 pcs. M5 x 45 and 2 pcs. M5 x 65

Dimensions [mm] and ordering data								
B1	B2	D1	H1	H2	L1	CRC[1)]	Part No.	Type
12	5	M5	50	41	20	4	**563403**	**VAME-S7-Y**

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

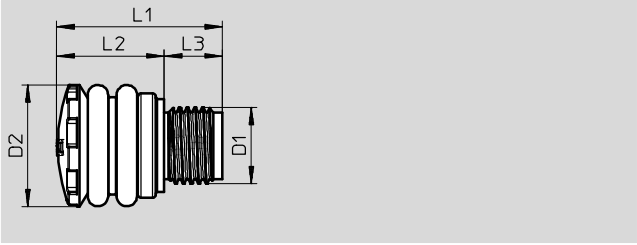
Adapter with filter
Adapter material: High-alloy stainless steel
Material of seals: NBR
Note on materials:
Contains paint-wetting impairment substances, RoHS-compliant
Operating pressure 2 ... 8 bar



Dimensions [mm] and ordering data									
D1	D2	D3	D4	L1	L2	⊂1	CRC[1)]	Part No.	Type
1/4 NPT	6	G1/4	18	29	10	19	1	**563397**	**NPFV-AF-G14-N14-MF**
G1/4	6	G1/4	18	29	10	19	1	**563398**	**NPFV-AF-G14-G14-MF**
1/4 NPT	6	1/4 NPT	18	29	10	19	1	**4727333**	**NPFV-AF-N14-N14-MF**

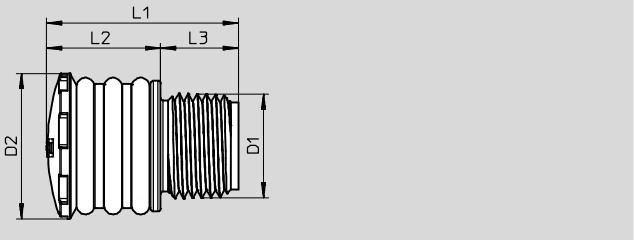
1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Exhaust protection G1/4
Housing material: PA
Material of seals: EPDM
Contains paint-wetting impairment substances, RoHS-compliant
Operating medium: Compressed air to ISO 8573-1:2010 [7:–:–]
Operating pressure: 0 ... 10 bar
Ambient temperature: –50 ... +60 °C
Type of mounting: can be screwed in, with male thread



Dimensions [mm] and ordering data						
D1	D2	L1	L2	L3	Part No.	Type
G1/4, 1/4 NPT	21	28.5	18.5	10	**563400**	**VABD-D3-SN-G14**

Exhaust protection 1/2 NPT
Housing material: PA
Material of seals: EPDM
Contains paint-wetting impairment substances, RoHS compliant
Operating medium: Compressed air to ISO 8573-1:2010 [7:–:–]
Operating pressure: 0 ... 12 bar
Ambient temperature: –50 ... +60 °C
Type of mounting: Can be screwed in, with male thread

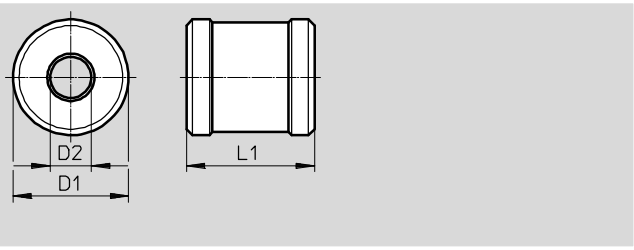


Dimensions [mm] and ordering data

D1	D2	L1	L2	L3	Part No.	Type
G1/2, 1/2 NPT	29	38	23	15	**3535104**	**VABD-D3-SN-N12**

Manual override
Material: Aluminium, anodised,
Contains paint-wetting impairment substances, RoHS compliant

Function:
Manual override of basic valves instead of a solenoid coil

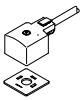


Dimensions [mm] and ordering data

D1	D2	L1	Weight [g]	CRC[1)]	Part No.	Type
38	13.5	42	120	2	**3580654**	**VAOH-MB-S7-S13**

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Ordering data

	Description		Part No.	Type
Connecting cable				Technical data ➔ Internet: kmc
	Operating voltage 24 V DC, switching status indication with LED	Cable length 2.5 m	**30931**	**KMC-1-24 DC-2,5-LED**
		Cable length 5 m	**30933**	**KMC-1-24 DC-5-LED**
		Cable length 10 m	**193459**	**KMC-1-24-10-LED**
	Operating voltage up to 240 V AC	Cable length 2.5 m	**30932**	**KMC-1-230 AC-2,5**
		Cable length 5 m	**30934**	**KMC-1-230 AC-5**
Plug socket				Technical data ➔ Internet: mssd
	Cable connection using clamping screws		**34583**	**MSSD-C**

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1 Festo Inc.

5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com

2 Festo Pneumatic

Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669

ventas.mexico@festo.com

3 Festo Corporation

1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com

4 Regional Service Center

7777 Columbia Road
Mason, OH 45040

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