

Solenoid valve VOFD

FESTO



Type code

001	Series
VOFD	Solenoid valve, series D

002	Directional control valve type
L	In-line valve

003	Nominal width
12	1.2 mm
35	3.5 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/single solenoid valves
M	Mechanical spring

007	Pilot air
N	None

008	Manual override
	None
H	Non-detenting
Y	Detenting

009	Pneumatic connection
FG12	NAMUR port pattern 1/4, connections G1/2
FG14	NAMUR port pattern 1/4, connections G1/4
FGP14	NAMUR port pattern 1/4, connections G1/4 with extended NAMUR interface
FNP14	NAMUR port pattern 1/4, connections 1/4 NPT with extended NAMUR interface
G14	G1/4
G12	G1/2
N14	1/4 NPT
N12	1/2 NPT

010	Supply connection version
	Standard
PF	With particle filter
NPF	With particle filter and connecting thread NPT

011	Exhaust
	No fitting
U6	With exhaust protection
UE	Quick exhaust function

012	Pressure range [bar]
8	0 ... 8
10	0 ... 10
12	0 ... 12

013	Temperature range
	Standard
T6	-50 ... +60°C

014	Corrosion protection
	Standard
R1	Stainless steel
R16	Brass

015	Valve pilot control interface
F10	Electric with armature tube for solenoid coil, 18 mm
F19	Electric with armature tube for solenoid coil, 13 mm
F19A	Electric with armature tube for solenoid coil 13 mm, intrinsically safe

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

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

018	Electrical connection
	None
A1	Plug pattern type A, to EN 175301-803
K4	Cable connector metric
K5	Cable connector NPT

019	Circuitry
	None
F	Fuse

020	EU certification
	None
EX4	II 2GD

021	Certification
	None
U2	cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)
KS4	KOSHA (Ex certification Korea, EPL Gb and Db)
NM4	INMETRO (Ex certification Brazil, EPL Gb and Db)
NE4	CCC-Ex (Ex certification China, EPL Gb and Db)

022	Type of ignition protection
	None
A	Intrinsically safe
D	Flameproof encapsulation
ME	Encapsulation, enhanced security

Datasheet

General technical data basic valve VOFD-L12T-...

Valve pilot control interface	Electric with armature tube for solenoid coil, 13 mm	Electric with armature tube for solenoid coil 13 mm, intrinsically safe
Valve function	3/2-way, closed, monostable	
Pneumatic connection, port 1	G1/4	
Pneumatic connection, port 2	G1/4	
Pneumatic connection, port 3	G1/4	
Design	Directly actuated poppet valve	
Construction width	50	
Mounting position	optional	
Sealing principle	Soft	
Manual override	None	
Type of reset	Mechanical spring	
Type of actuation	Electric	
Suitability for vacuum	yes	
Type of piloting	Direct	
Flow rate Kv pressurisation	0.04 m ³ /h	
Flow rate Kv exhaust	0.04 m ³ /h	
b value	0.2	0.53
C value	0.44 l/sbar	0.21 l/sbar
Flow direction	Non-reversible	
Product weight	170 g	
Switching time off	60 ms	
Switching time on	40 ms	
Nominal size	1.2 mm	
Standard nominal flow rate (standardised to DIN 1343)	52 l/min	
Standard nominal flow rate 2-3	49 l/min	

Operating and environmental conditions, basic vale VOFD-L12T-...

Operating medium	Compressed air to ISO 8573-1:2010 [7:2:2]
Operating pressure	0 ... 0.8 MPa
Operating pressure	0 ... 8 bar
Operating pressure	0 ... 116 psi
Media temperature	-25 ... 60°C
Ambient temperature	-25 ... 60°C
Corrosion resistance class CRC ¹⁾	4 - Very high corrosion stress

1) More information www.festo.com/x/topic/kbk

Basic valve materials VOFD-L12T-...

Material housing	Ematal coated aluminium
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Datasheet

General technical data, basic valves VOFD-L50T-...-F10, basic valve NW 5 mm, G1/4 NAMUR

Pneumatic connection, port 1	M5, NAMUR port pattern	G1/4
Pneumatic connection, port 2	Flange 1/4, NAMUR port pattern	
Pneumatic connection, port 3	G1/4	
Valve function	3/2-way, closed, monostable	
Design	Directly actuated poppet valve	
Construction width	50.5	
Mounting position	optional	
Sealing principle	Soft	
Manual override	None	
Type of reset	Mechanical spring	
Type of actuation	Electric	
Suitability for vacuum	yes	
Type of piloting	Direct	
Flow rate Kv pressurisation	0.36 m ³ /h	
Flow rate Kv exhaust	0.36 m ³ /h	
Flow direction	Reversible	
Product weight	560 g	
Switching time off	60 ms	
Switching time on	40 ms	
Nominal size	5 mm	
Standard nominal flow rate (standardised to DIN 1343)	493 l/min	
Standard nominal flow rate 2-3	429 l/min	

Operating and environmental conditions, basic valves VOFD-L50T-...-F10, basic valve NW 5 mm, G1/4 NAMUR

Operating medium	Compressed air to ISO 8573-1:2010 [7:2:2]
Degree of protection	IP65
Operating pressure	0 ... 1 MPa
Operating pressure	0 ... 10 bar
Operating pressure	0 ... 145 psi
Media temperature	-25 ... 60°C
Ambient temperature	-25 ... 60°C
Corrosion resistance class CRC ¹⁾	4 - Very high corrosion stress
Certificate issuing authority	TÜV 968/V 1251.02/24

1) More information www.festo.com/x/topic/kbk

Basic valve materials VOFD-L50T-...-F10, basic valve NW 5 mm, G1/4 NAMUR

Material housing	Ematal coated aluminium
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Datasheet

General technical data, basic valves VOFD-L50T-...-F10, basic valve NW 5 mm, G/NPT 1/4 pipe socket

Pneumatic connection, port 1	G1/4	1/4 NPT
Pneumatic connection, port 2	G1/4	1/4 NPT
Pneumatic connection, port 3	G1/4	1/4 NPT
Valve function	3/2-way, closed, monostable	
Design	Directly actuated poppet valve	
Construction width	28, 51	
Mounting position	optional	
Sealing principle	Soft	
Manual override	None	
Type of reset	Mechanical spring	
Type of actuation	Electric	
Suitability for vacuum	yes	
Type of piloting	Direct	
Flow rate Kv pressurisation	0.36	
Flow rate Kv exhaust	0.36	
Flow direction	Reversible	
Product weight	560, 750	
Switching time off	60	
Switching time on	40	
Nominal size	5	
Standard nominal flow rate (standardised to DIN 1343)	493	
Standard nominal flow rate 2-3	429	

Operating and environmental conditions, basic valves VOFD-L50T-...-F10, basic valve NW 5 mm, G/NPT 1/4 pipe socket

Operating medium	Compressed air to ISO 8573-1:2010 [7:2:2]	
Degree of protection	IP65	
Operating pressure	0 ... 1 MPa	
Operating pressure	0 ... 10 bar	
Operating pressure	0 ... 145 psi	
Media temperature	-25 ... 60°C	
Ambient temperature	-25 ... 60°C	
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress, 4 - Very high corrosion stress	
Certificate issuing authority	TÜV 968/V 1251.02/24	

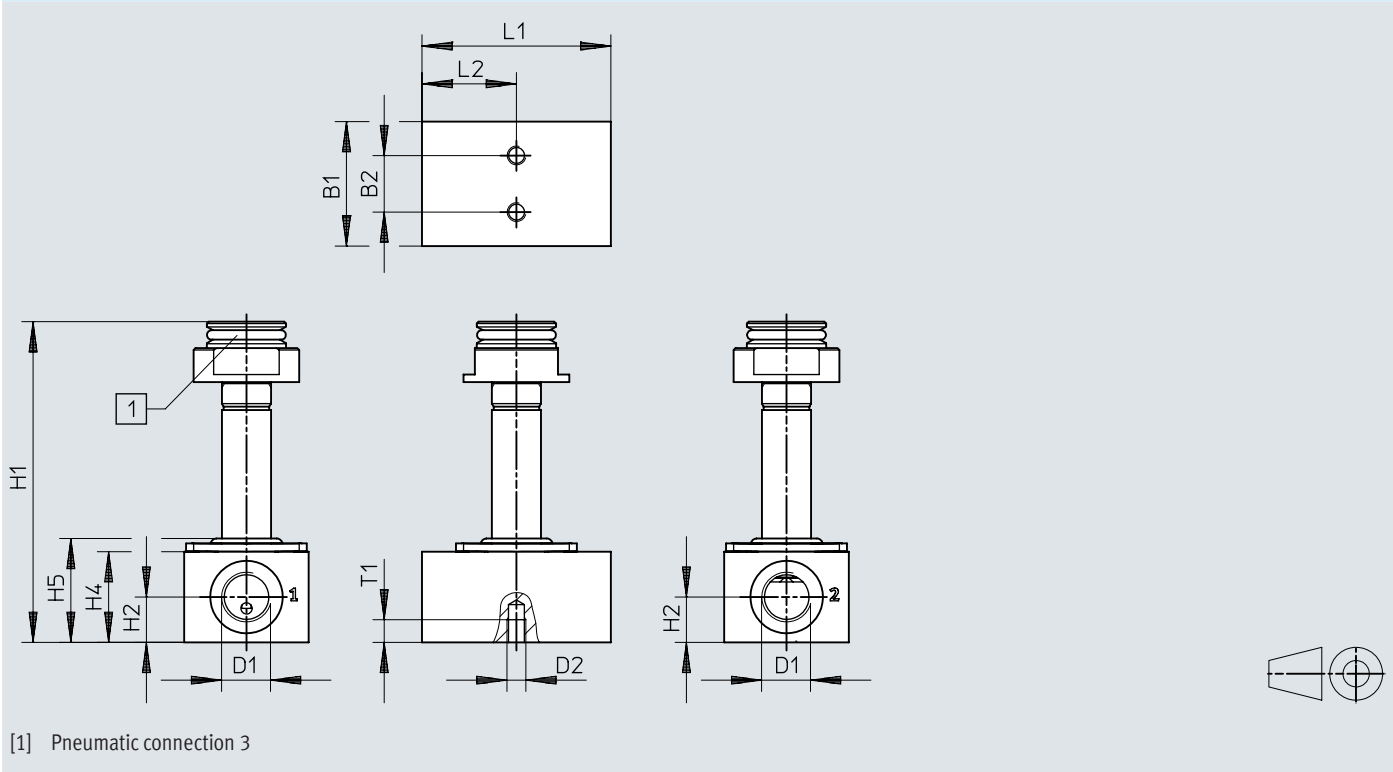
1) More information www.festo.com/x/topic/kbk

Basic valve materials VOFD-L50T-...-F10, basic valve NW 5 mm, G/NPT 1/4 pipe socket

Material housing	Ematal coated aluminium, Brass, High-alloy stainless steel
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Dimensions

Dimensions – Basic valve VOFD-L12T-... Download CAD data www.festo.com

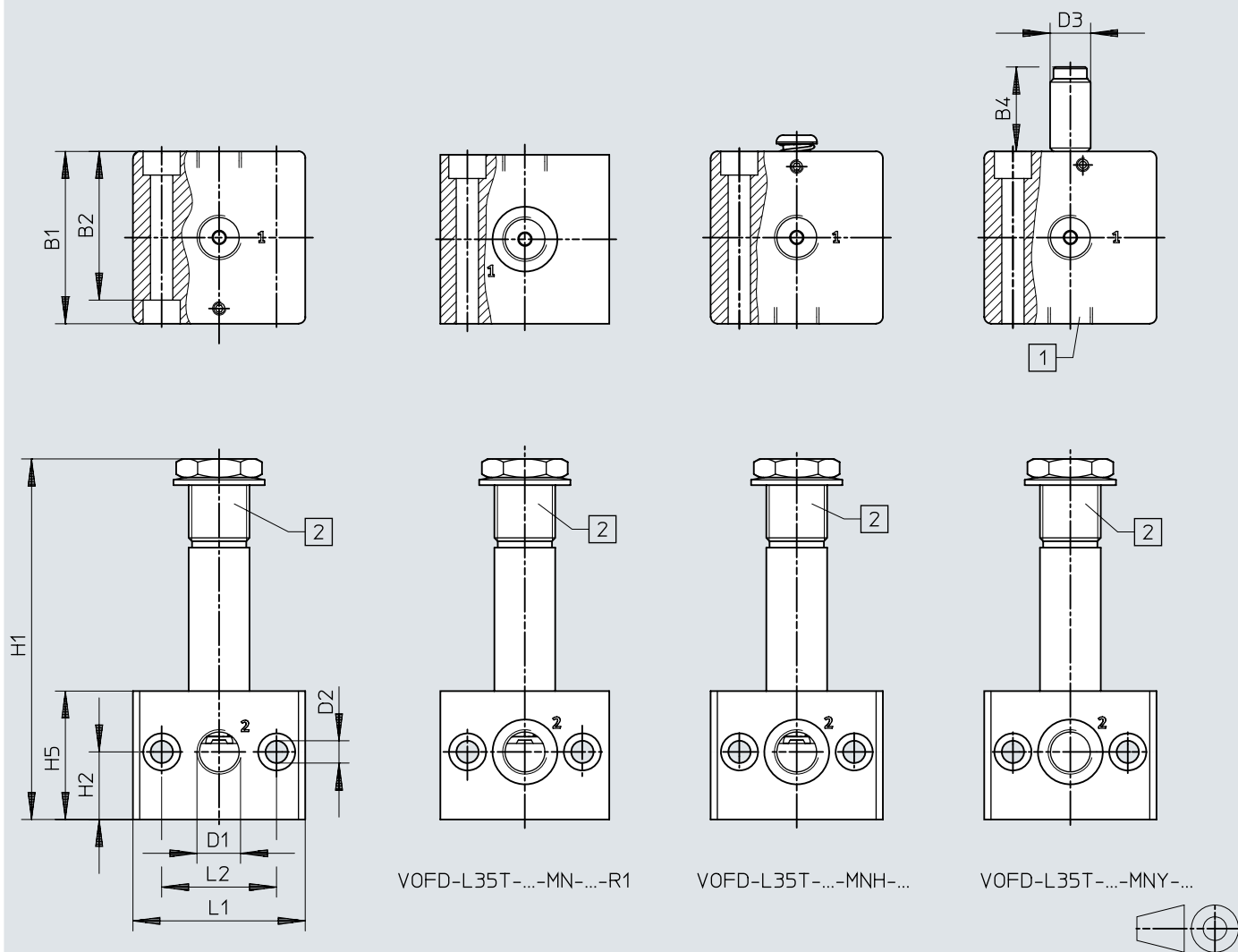


	B1	B2	D1	D2 ø	H1	H2	H4	H5	L1	L2	T1
VOFD-L12T-M32-MN-G14-F19	33	15	G1/4	M5	85	12	24	27,5	50	25	6
VOFD-L12T-M32-MN-G14-F19-A											

Dimensions

Dimensions – Basic valves VOFD-L35T-...-F10, modular system NW 3.5 mm

Download CAD data www.festo.com



[1] Working port

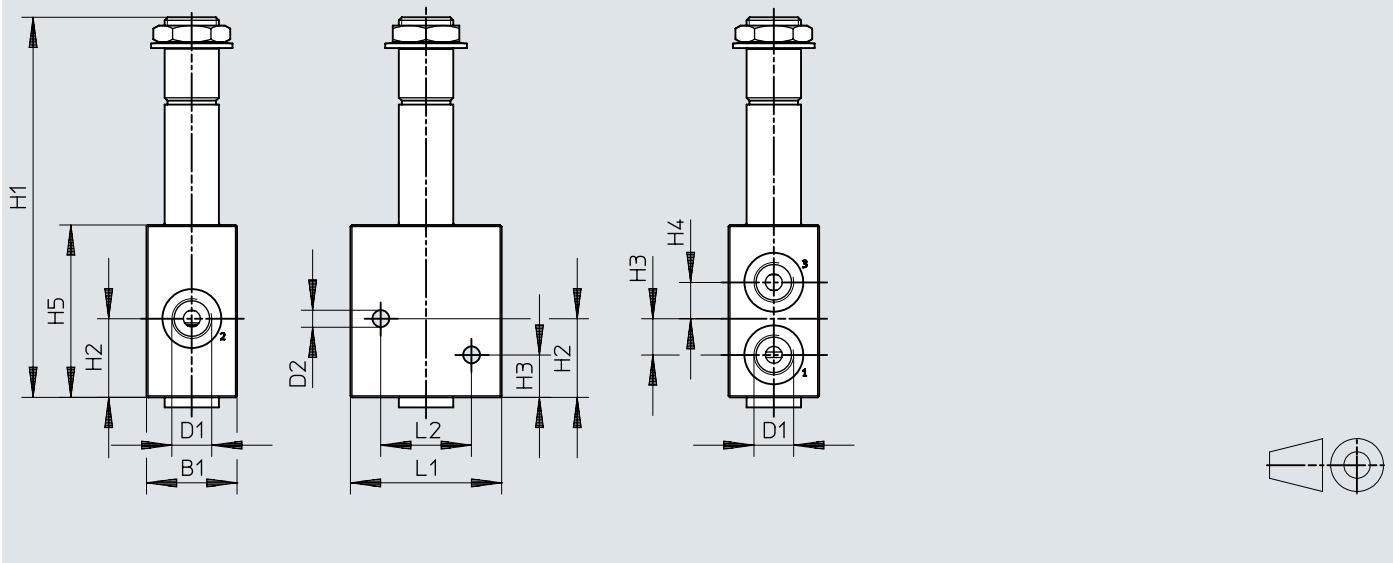
[2] Connection 3

	B1	B2	B4	D1	D2 Ø	D3 Ø	H1	H2	H5	L1	L2
VOFD-L35T-M32-MN-G14-...-F10	51	44	–	G1/4	6,6	–	106,5	20	38	51	34
VOFD-L35T-M32-MN-G14-...-R1-F10	50	43	–			–				50	
VOFD-L35T-M32-MNH-G14-...-F10	51	44	–			–				51	
VOFD-L35T-M32-MNY-G14-...-F10	51	44	25			12				51	
VOFD-L35T-M32-MN-N14-...-F10	51	44	–	1/4 NPT	6,6	–	106,5	20	38	51	34
VOFD-L35T-M32-MN-N14-...-R1-F10	50	43								50	
VOFD-L35T-M32-MNH-N14-...-F10	51	44								51	
VOFD-L35T-M32A-MNH-N14-...-F10	51	44								51	
VOFD-L35T-M32A-MNH-N14-...-R1-F10	50	43								50	

Dimensions

Dimensions – Basic valves VOFD-L50T-...-G14/N14, modular system NW
5 mm

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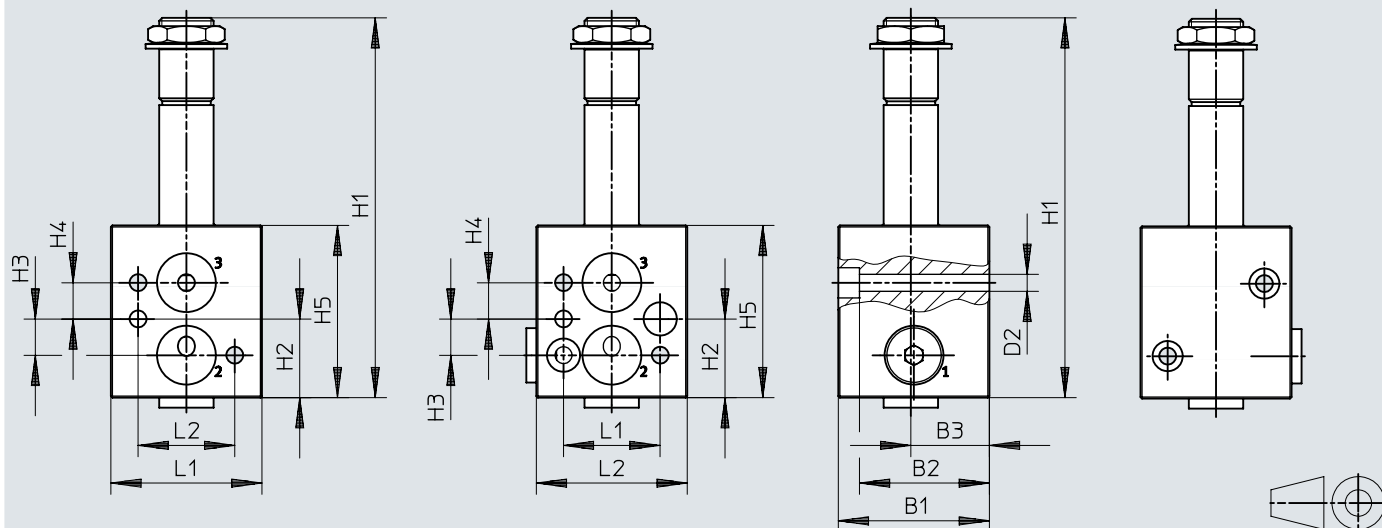
	B1	D1	D2 ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L50T-M32-MN-G14-...-F10	30	G1/4	5,6	126	26	12	12	57	50	30
VOFD-L50T-M32-MN-N14-...-F10	30	1/4 NPT	5,6	126	26	12	12	57	50	30

Dimensions

Dimensions – Basic valves VOFD-L50T-...-FG14/-FGP14, modular system NW
5 mm

Download CAD data www.festo.com

VOFD-L50T-...-FGP14

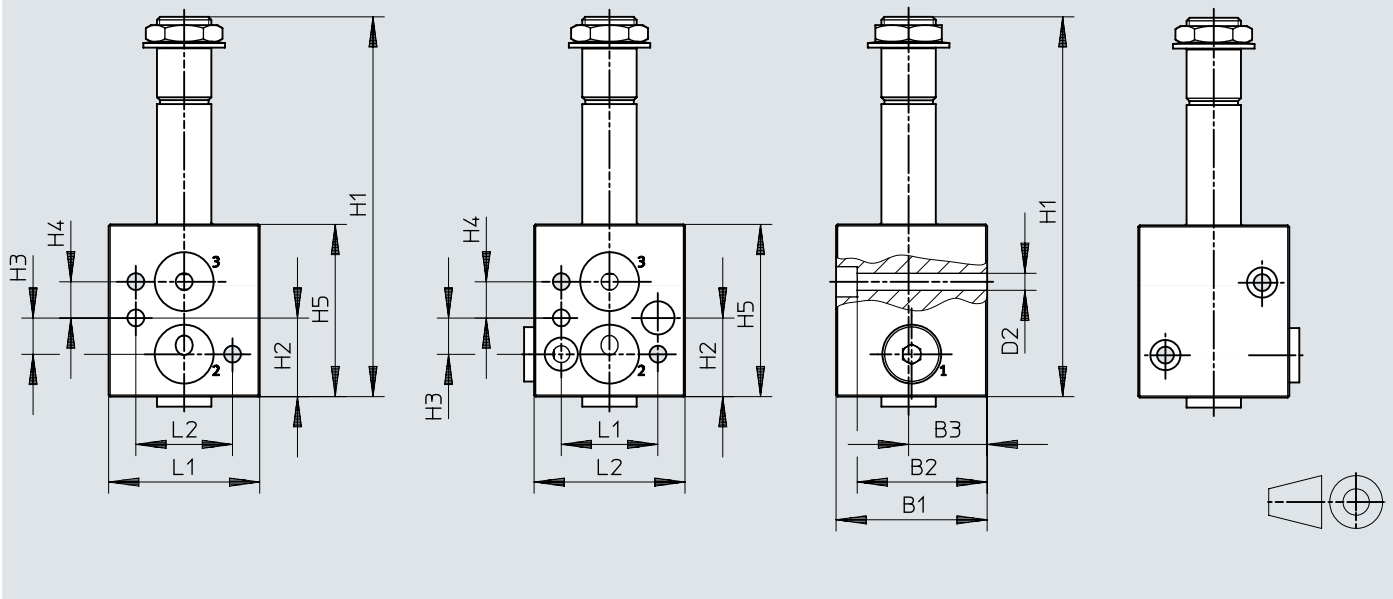


	B1	B2	B3	D2 ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L50T-M32-MN-FG14-F10	50	43	26	5,6	126	26	12	12	57	50	32
VOFD-L50T-M32-MN-FGP14-F10											

Dimensions

Dimensions – Basic valve NW 5 mm, G1/4 NAMUR Download CAD data www.festo.com

VOFD-L50T- . . . -FGP14



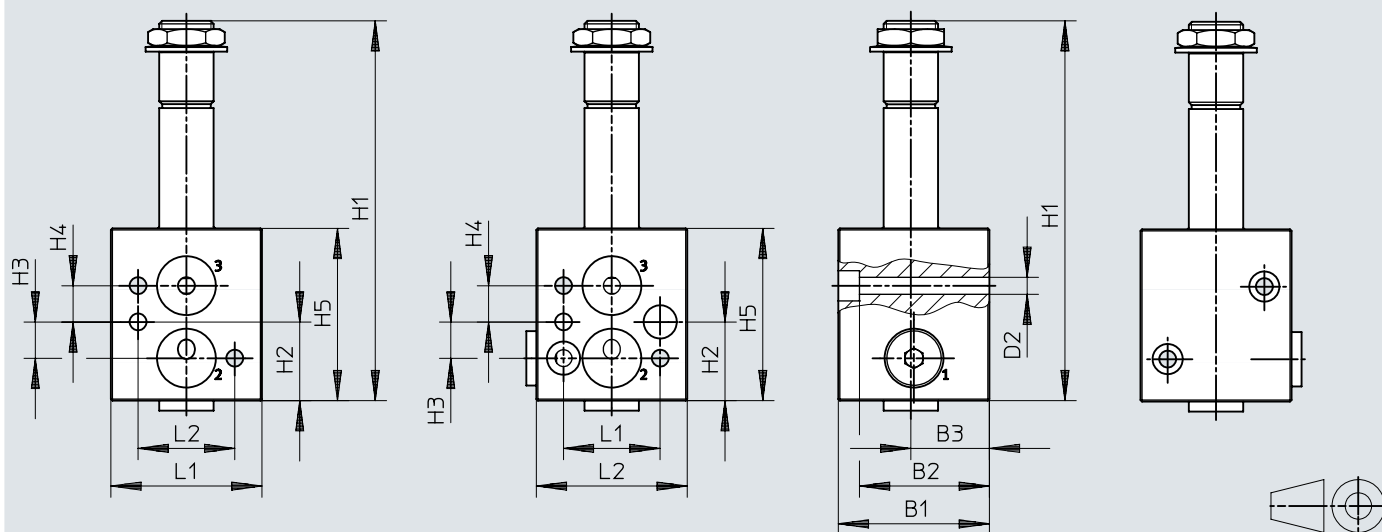
	B1	B2	B3	D2 Ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L50T-M32-MN-FG14-F10	50	43	26	5,6	126	26	12	12	57	50	32
VOFD-L50T-M32-MN-FGP14-F10											

Dimensions

Dimensions – Basic valve NW 5 mm, G1/4 NAMUR, P connection

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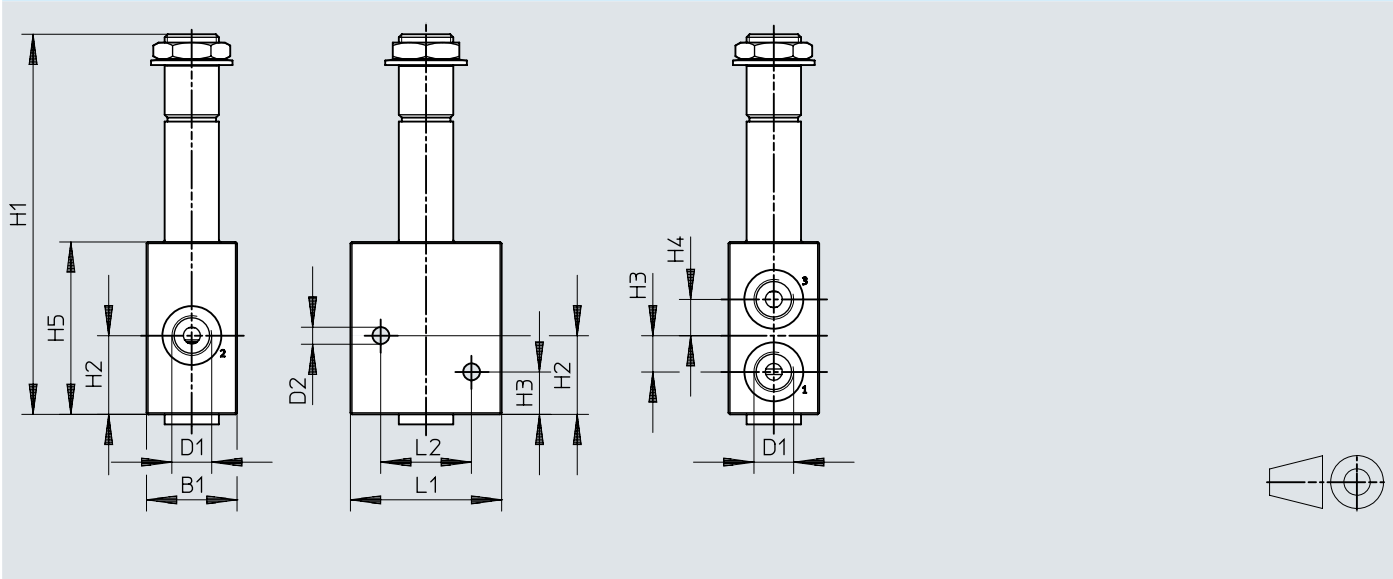
VOFD-L50T-...-FGP14



	B1	B2	B3	D2 Ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L50T-M32-MN-FGP14-F10	50	43	26	5,6	126	26	12	12	57	50	32
VOFD-L50T-M32-MN-FGP14-10-F10											

Dimensions

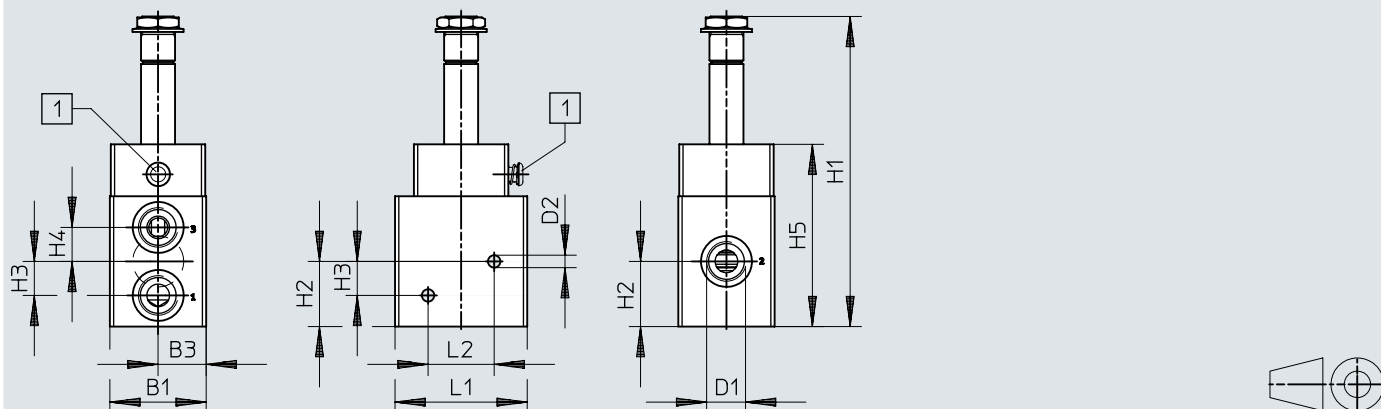
Dimensions – Basic valve NW 5 mm, G/NPT 1/4 socket Download CAD data www.festo.com



	B1	D1	D2 ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L50T-M32-MN-G14-...-F10	30	G1/4	5,6	126	26	12	12	57	50	30
VOFD-L50T-M32-MN-G14-...-R1-F10										
VOFD-L50T-M32-MN-G14-...-R16-F10										
VOFD-L50T-M32-MN-N14-...-F10	30	1/4 NPT	5,6	126	26	12	12	57	50	30
VOFD-L50T-M32-MN-N14-...-R1-F10										
VOFD-L50T-M32-MN-N14-...-R16-F10										

Dimensions

Dimensions – VOFD-L100T-M32-MN...

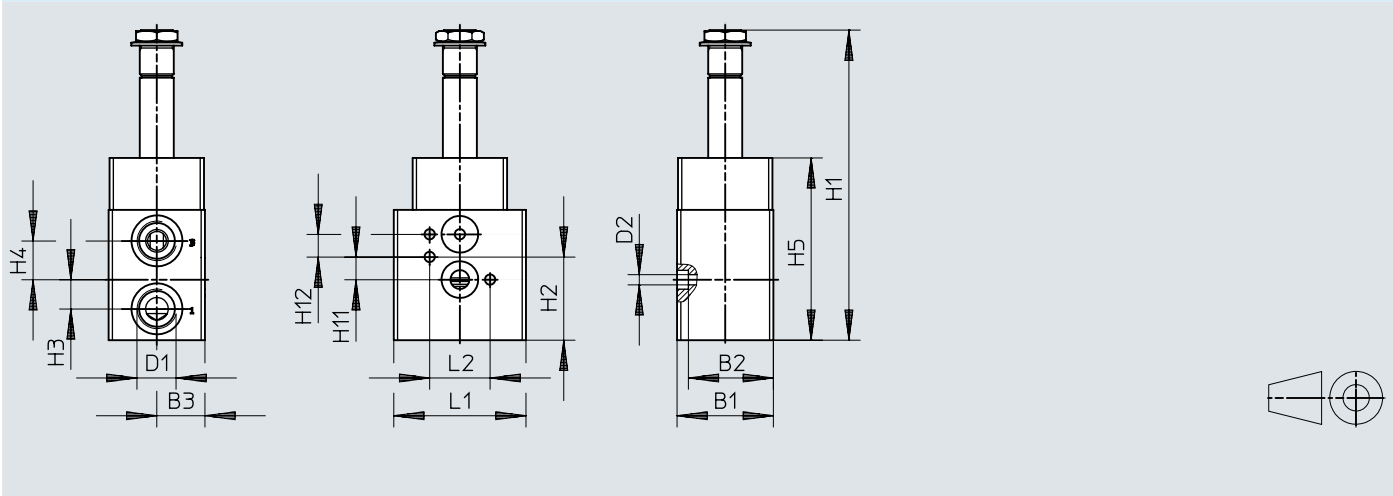
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[1] Manual override, non-detenting (in VOFD-L100T-...-MNH-... variant)

	B1	B3	D1	D2 Ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L100T-M32-MN-G12-...-F10	51	25	G1/2	6,6	164	34,5	18	18	96,5	70	35
VOFD-L100T-M32-MNH-G12-...-F10											
VOFD-L100T-M32-MN-N12-...-F10	51	25	1/2 NPT	6,6	164	34,5	18	18	96,5	70	35
VOFD-L100T-M32-MNH-N12-...-F10											

Dimensions

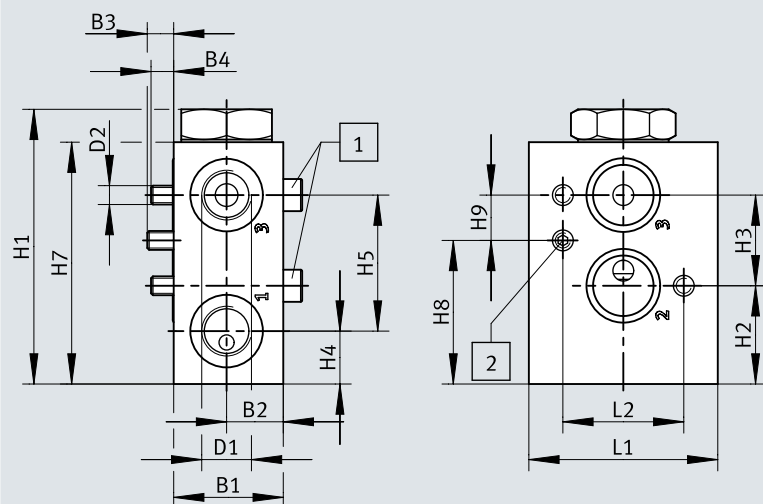
Dimensions – VOFD-L100T-...-FG12-...-F10 [Download CAD data](http://www.festo.com)



	B1	B2	B3	D1	D2 ø	H1	H2	H3	H4	H5	L1	L2
VOFD-L100T-...-FG12-...-F10	51	45	25,5	G1/2	5,5	164	44	12	12	96,5	70	32

Dimensions

Dimensions – Sub-base VABS-S7-BE-...

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[1] Socket head screw M5x35

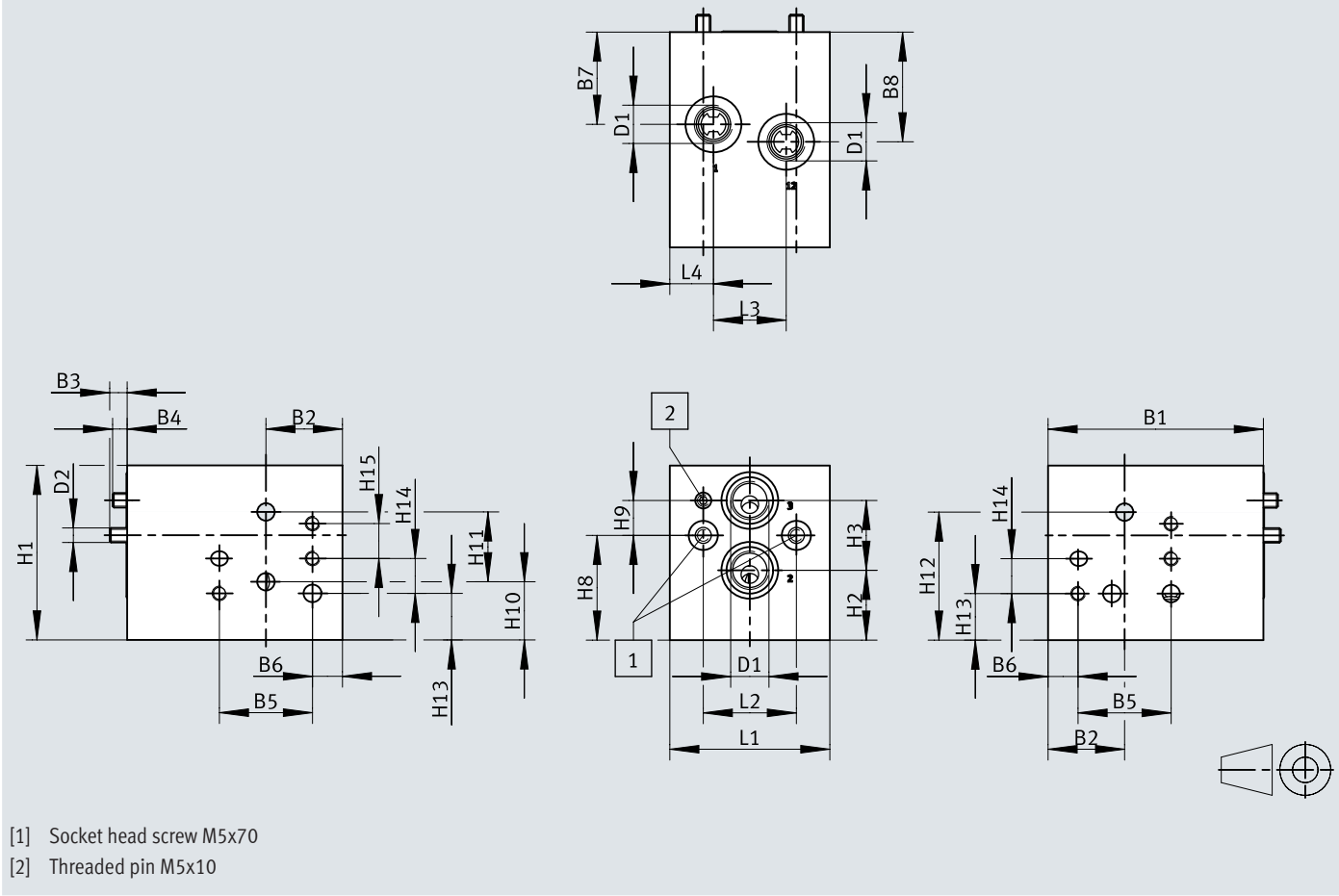
[2] Threaded pin M5x10

	B1	B2	B3	B4	D1	D2	H1	H2
VABS-S7-BE-B-G14-VDE1	29	15	7	6	G1/4	M5	72,7	26
VABS-S7-BE-B-N14-VDE1					1/4 NPT			
	H3	H4	H5	H7	H8	H9	L1	L2
VABS-S7-BE-B-G14-VDE1	24	14	36	64	38	12	50	32
VABS-S7-BE-B-N14-VDE1								

Dimensions

Dimensions – Sub-base VABS-S7-RB-...

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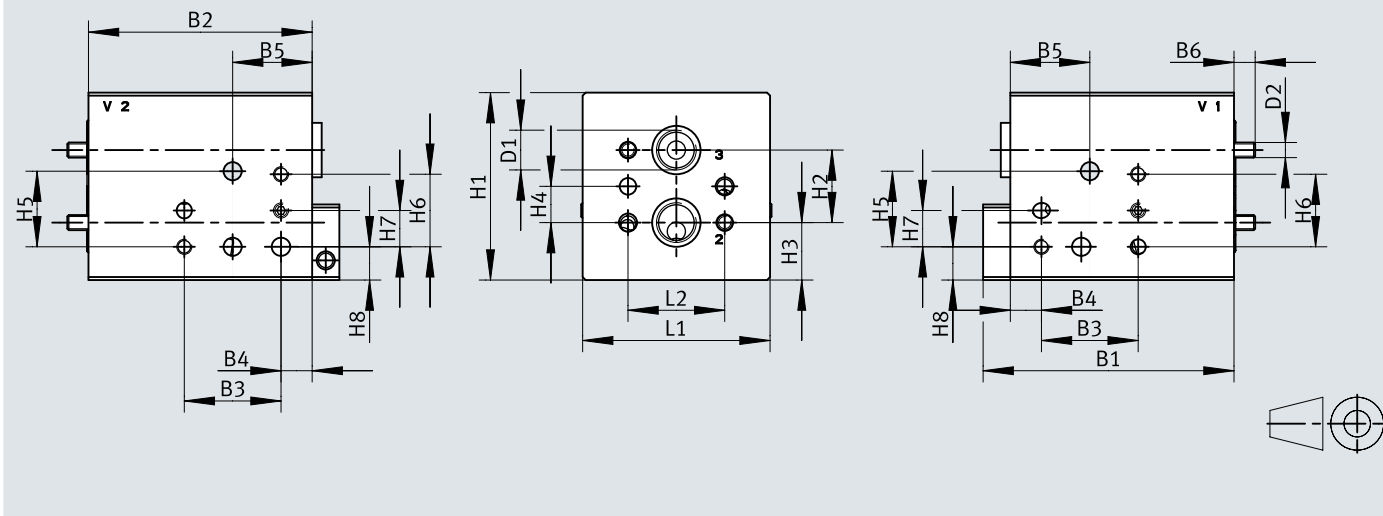


	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	L1	L2	L3
VABS-S7-RB-B-G14-VDE1-R12	74	26,3	6	5	32	10,3	31,7	37,7	G1/4	M5	55	32	25
VABS-S7-RB-B-N14-VDE1-R12									1/4 NPT				

	L4	H1	H2	H3	H8	H9	H10	H11	H12	H13	H14	H15
VABS-S7-RB-B-G14-VDE1-R12	15	60	24	24	36	12	20	24	44	16	12	12
VABS-S7-RB-B-N14-VDE1-R12												

Dimensions

Dimensions – Sub-base VABS-S7-RB-B

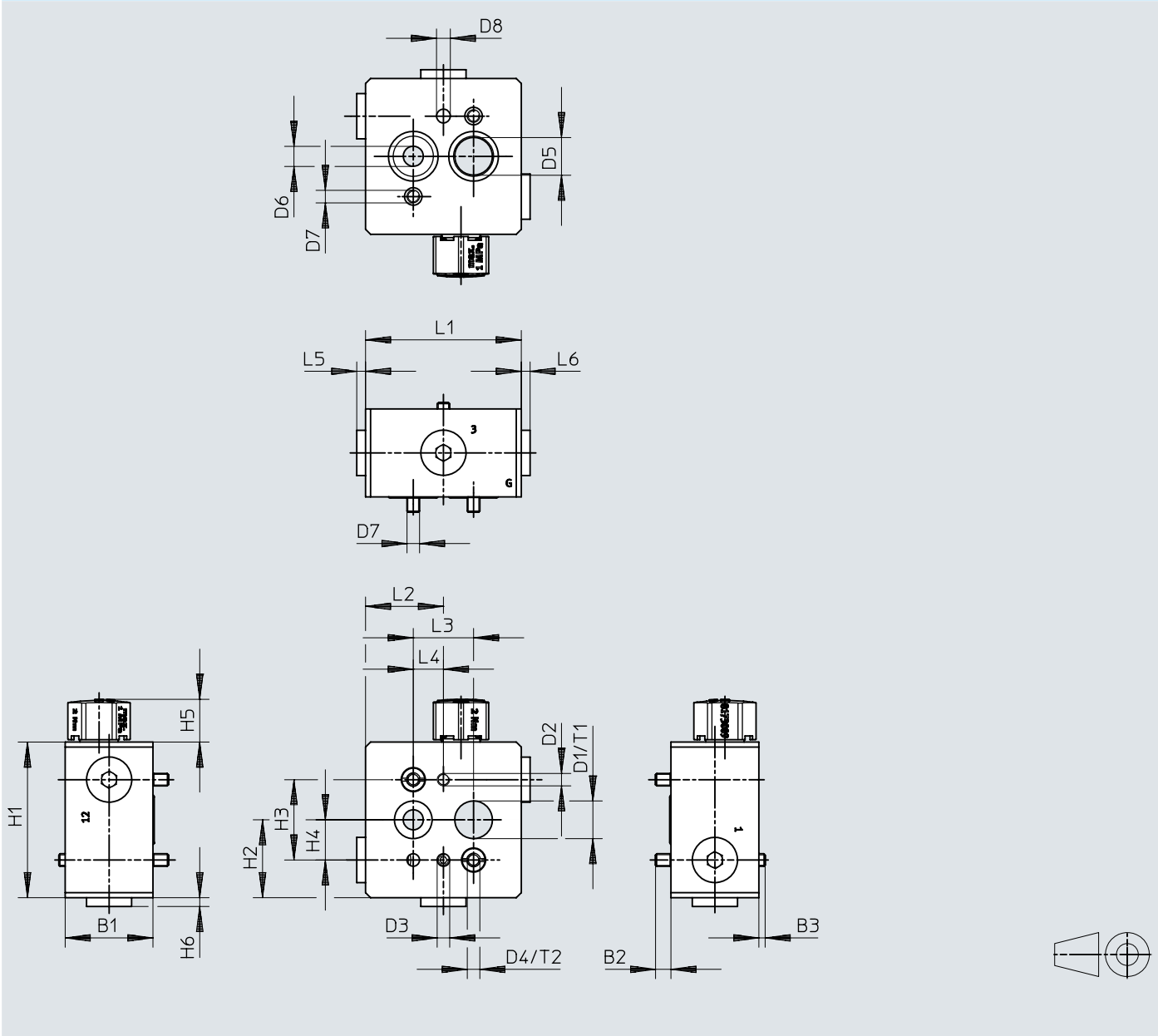
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	B1	B2	B3	B4	B5	B6	H3 H8	D1	D2
VABS-S7-RB-B-G14-VDE2-R12	83	74	32	10,3	26,3	7	25,6	G14	M7

	H1	H2	H3	H4	H5	H6	H7	H8	L1	L2
VABS-S7-RB-B-G14-VDE2-R12	62	24	19	12	25	24	12	11	62	32

Dimensions

Dimensions – Sub-base VABS-BE-BS Download CAD data www.festo.com



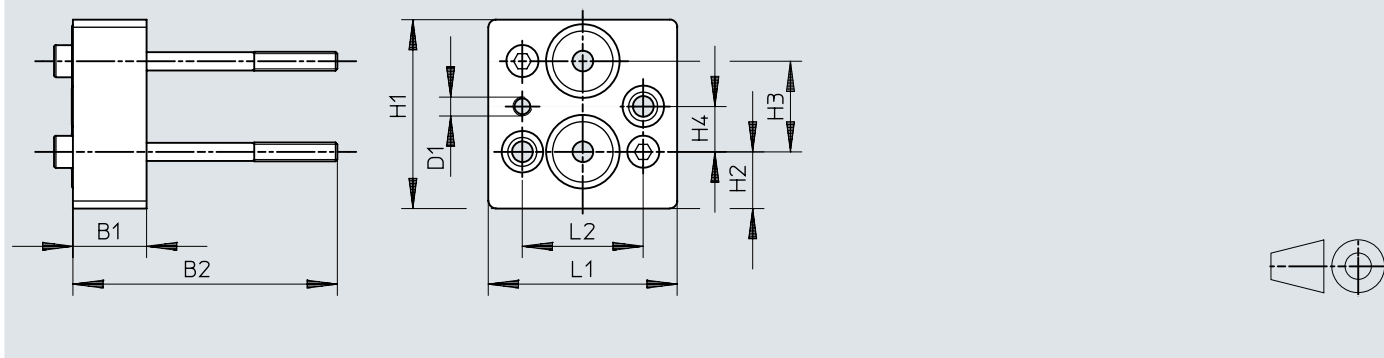
	B1	B2	B3	D1 Ø	D2	D3	D4	D5 Ø	D6 Ø	D7	D8 Ø	H1	H2
VABS-BE-BS-G14-V14	35	6,1	2,5	15	M5	M5	M5	15	8	M5	5,5	62	31

	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6	T1	T2
VABS-BE-BS-G14-V14	32	16	17	3,5	62	31	24	12	3,5	3,5	3	8

Dimensions

Dimensions – Mounting plate VAME-S7-P-N-...

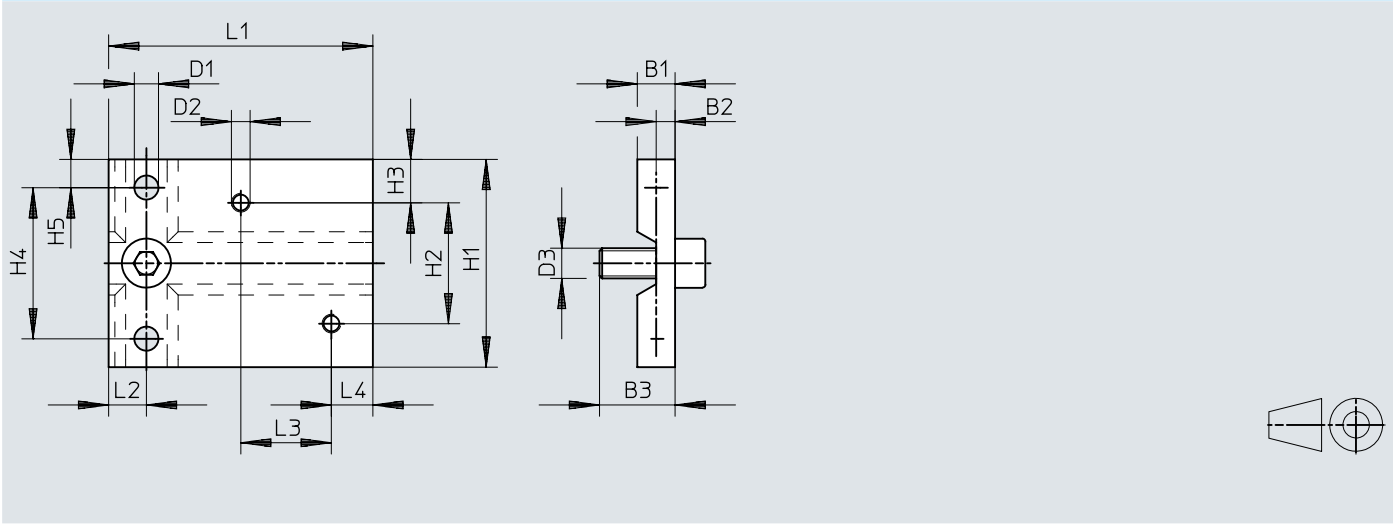
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	B1	B2	D1	H1	H2	H3	H4	L1	L2
VAME-S7-P-N-V14-A	19,5	70	M5	50	15	24	12	50	32

Dimensions

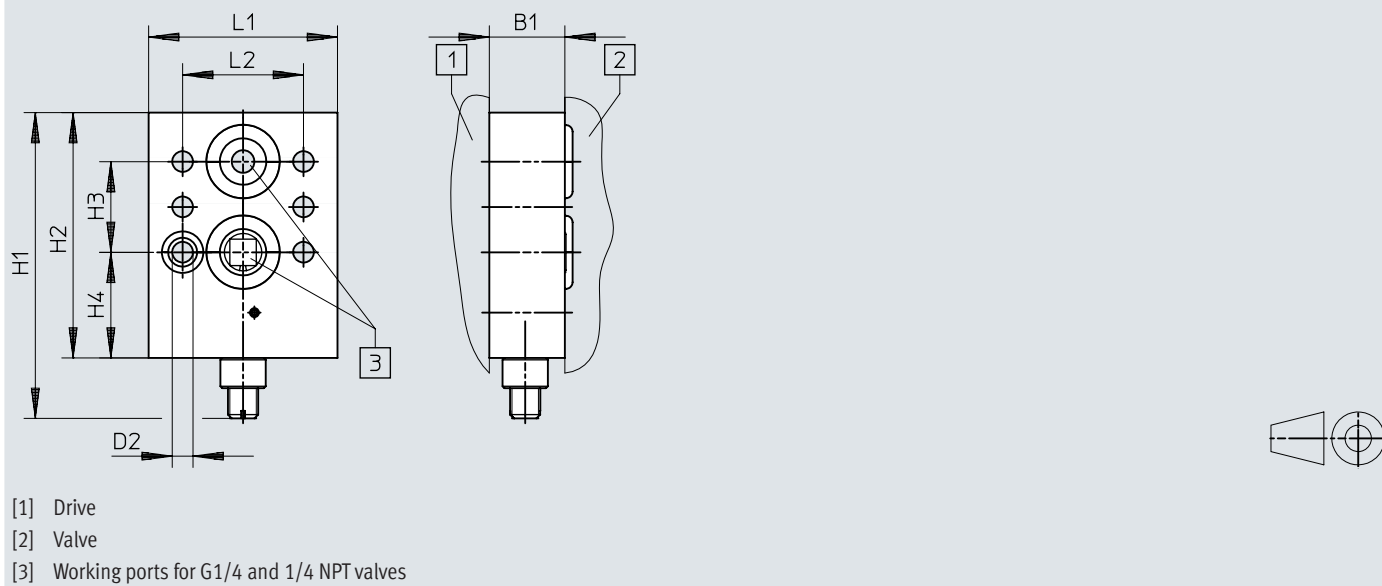
Dimensions – Mounting plate VAME-S7-P Download CAD data www.festo.com



	B1	B2	B3	D1	D2	D3	H1	H2	H3	H4	H5	L1	L2	L3	L4
VAME-S7-P	10	5	20	6,4	M5	M8	55	32	11,5	40	7,5	70	10	24	11

Dimensions

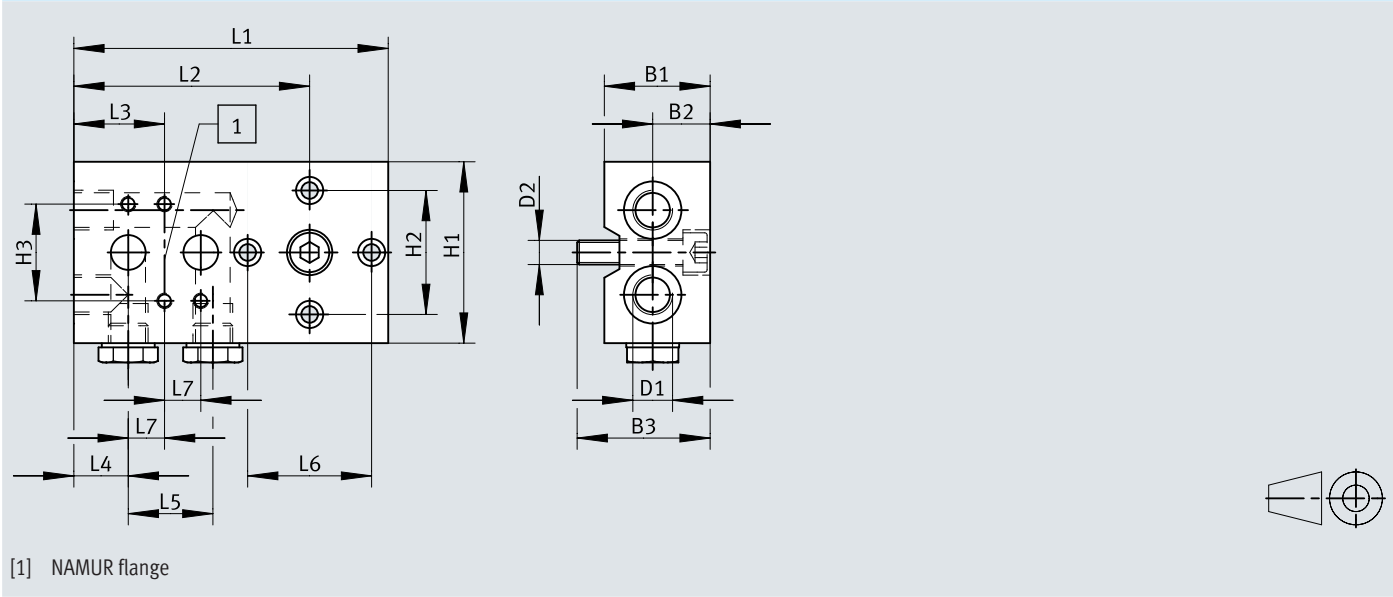
Dimensions – Throttle plate for single-acting drives

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	B1	D2 Ø	H1	H2	H3	H4	L1	L2
VABF-S7-F1B5P1-F	20	5,5	80	65	24	28	50	32

Dimensions

Dimensions – Sub-base Download CAD data www.festo.com

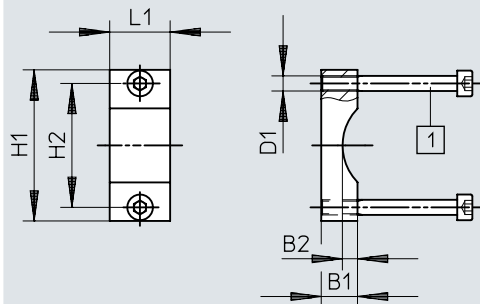


	B1	B2	B3	D1	D2	H1	H2
VABS-S7-S-G14-VDE1	35	19	44	G1/4	M8	60	41

	H3	L1	L2	L3	L4	L5	L6	L7
VABS-S7-S-G14-VDE1	32	104	70	30	18	28	41	12

Dimensions

Dimensions – Mounting bracket

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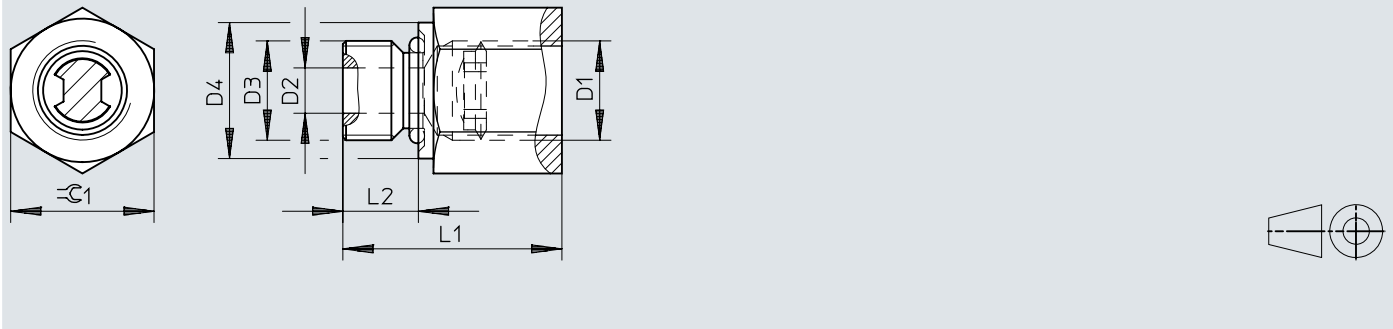
[1] Socket head screw, 2x M5x45 and 2x M5x65



	B1	B2	D1	H1	H2	L1
VAME-S7-Y	12	5	M5	50	41	20

Dimensions

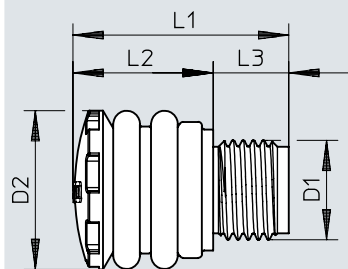
Dimensions – Adapter with filter Download CAD data www.festo.com



	D1	D2	D3	D4	L1	L2	$\approx \varnothing 1$
NPFV-AF-G14-N14-MF	1/4 NPT	6	G1/4	18	29	10	19
NPFV-AF-G14-G14-MF	G1/4	6	G1/4	18	29	10	19
NPFV-AF-N14-N14-MF	1/4 NPT	6	1/4 NPT	18	29	10	19

Dimensions

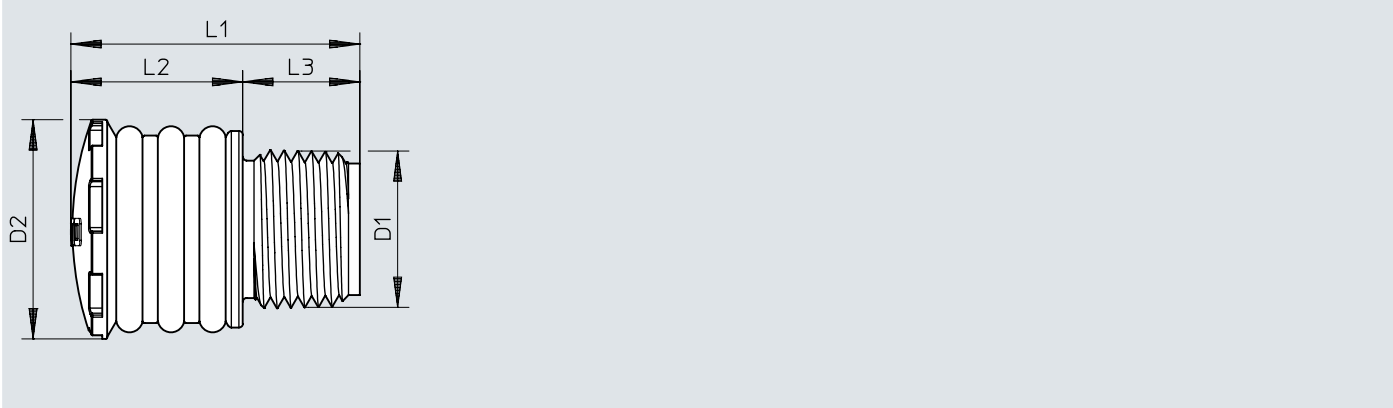
Dimensions – Exhaust protection G1/4

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	D1	D2	L1	L2	L3
VABD-D3-SN-G14	G1/4, 1/4 NPT	21	28,5	18,5	10

Dimensions

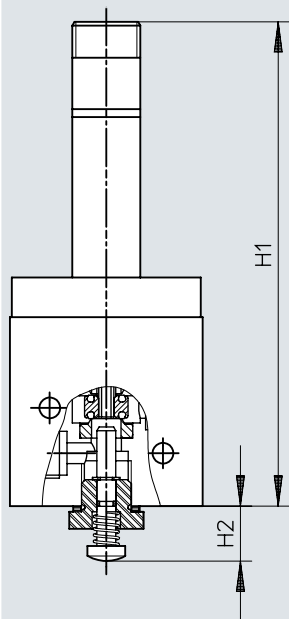
Dimensions – Exhaust protection 1/2 NPT Download CAD data www.festo.com



	D1	D2	L1	L2	L3
VABD-D3-SN-N12	G1/2, 1/2 NPT	29	38	23	15

Dimensions

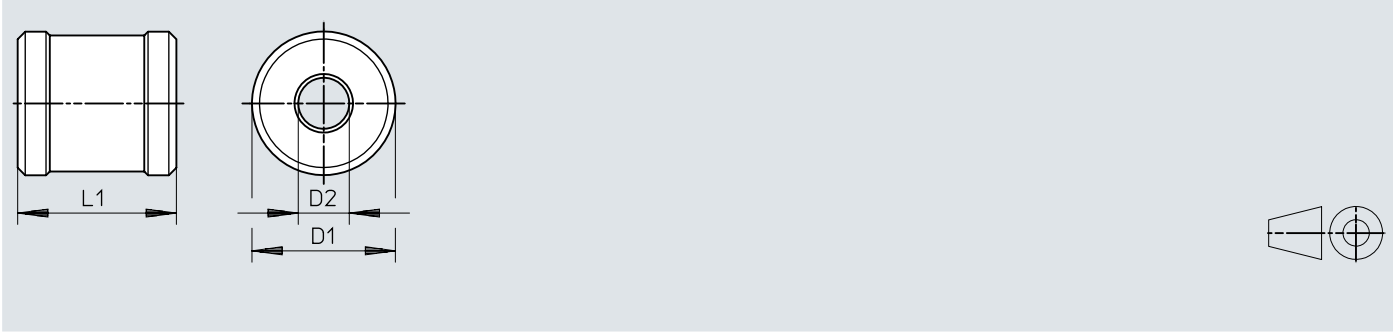
Dimensions – Manual override VAOH-S8

Download CAD data www.festo.com

	H1	H2
VAOH-S8	128	14

Dimensions

Dimensions – Manual override VAOH-MB [Download CAD data](http://www.festo.com) www.festo.com



	D1	D2	L1
VAOH-MB-S7-S13	38	13,5	42

Ordering data

Basic valve VOFD-L12T-...				
	Pneumatic connection	Type of ignition protection	Part no.	Type
	G1/4	None	3013904	VOFD-L12T-M32-MN-G14-8-F19
		Intrinsically safe	3014556	VOFD-L12T-M32-MN-G14-8-F19A

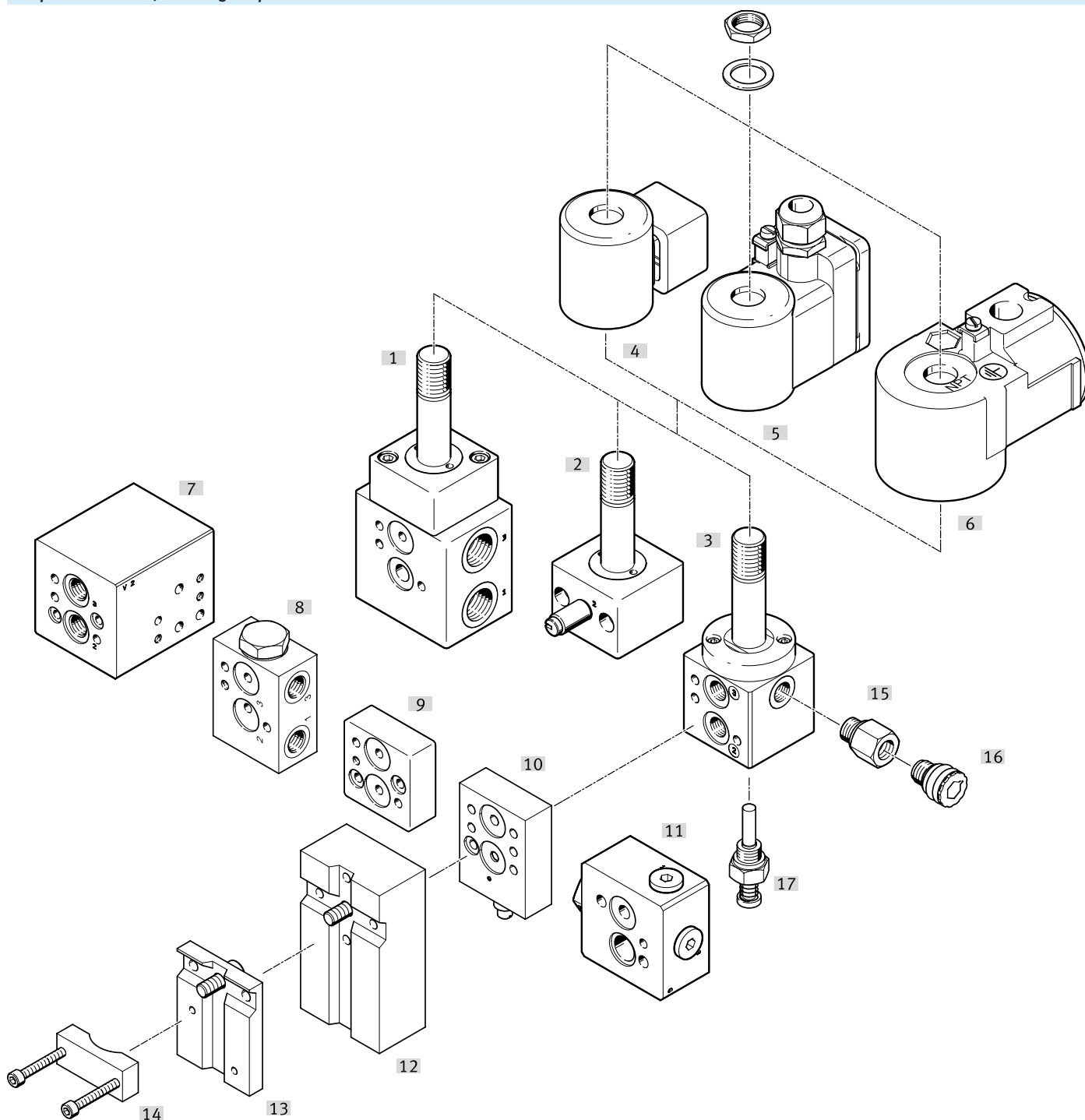
Basic valves VOFD-L50T-...-F10, basic valve NW 5 mm, G1/4 NAMUR				
	Pneumatic connection	Type of ignition protection	Part no.	Type
	NAMUR port pattern 1/4, connections G1/4	None	4514999	VOFD-L50T-M32-MN-FG14-10-F10
	NAMUR port pattern 1/4, connections G1/4 with extended NAMUR interface		4515000	VOFD-L50T-M32-MN-FGP14-10-F10

Basic valves VOFD-L50T-...-F10, basic valve NW 5 mm, G/NPT 1/4 pipe socket				
	Pneumatic connection	Type of ignition protection	Part no.	Type
	G1/4	None	4514997	VOFD-L50T-M32-MN-G14-10-F10
	1/4 NPT		4515019	VOFD-L50T-M32-MN-G14-10-R1-F10
			8201899	VOFD-L50T-M32-MN-G14-10-R16-F10
			4515018	VOFD-L50T-M32-MN-N14-10-R1-F10
			4514998	VOFD-L50T-M32-MN-N14-10-F10
			8201900	VOFD-L50T-M32-MN-N14-10-R16-F10

Ordering data – Modular product system					
	Operating pressure	Media temperature	Ambient temperature	Part no.	Type
	0 ... 0.8 MPa	-50 ... 60 °C	-50 ... 60 °C	2956784	VOFD-L35T-
	0 ... 1 MPa	-25 ... 60 °C	-25 ... 60 °C	3212962	VOFD-L50T-
	0 ... 1.2 MPa			2964753	VOFD-L100T-

Peripherals

Peripherals overview, mounting components and accessories



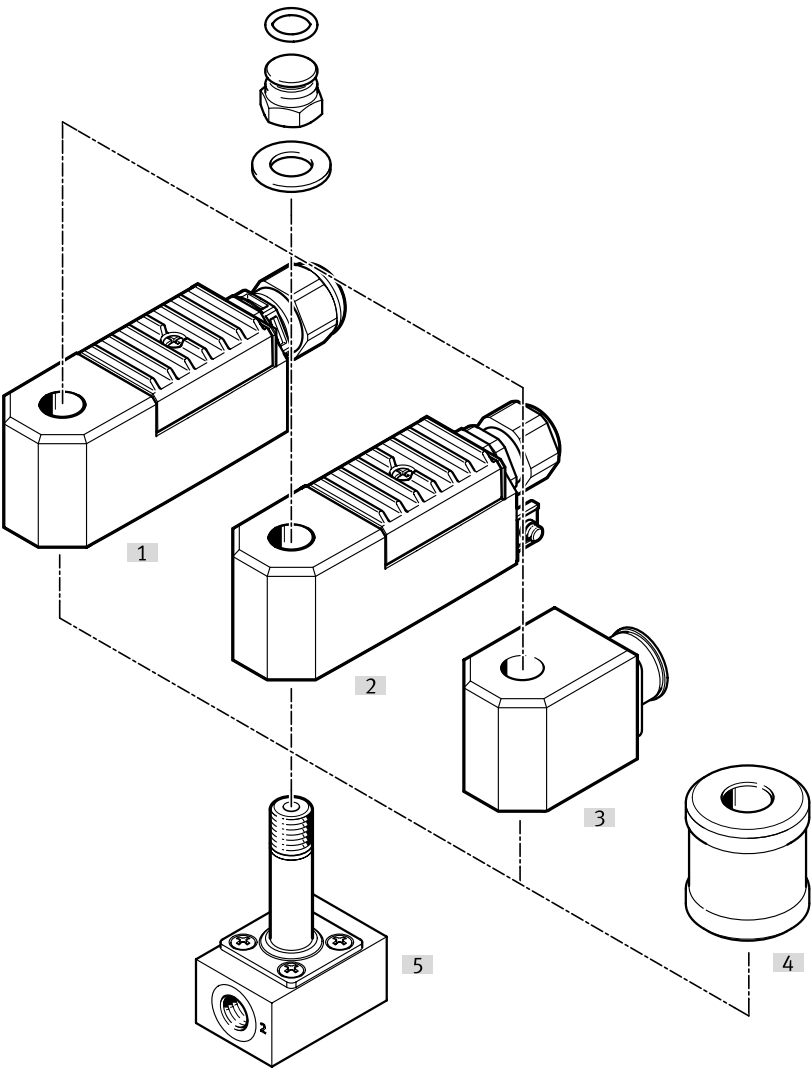
Accessories			→ Link
Type/order code	Description		
[1] Basic valve VOFD-L100T-...	3/2-way valve, G1/2 connection, poppet valve modular product system - can be configured using the online configurator		vofd
[2] Basic valve VOFD-L35T-...	3/2-way valve, G1/4 connection, poppet valve a, modular product, system - can be configured using the online configurator		vofd
[3] Basic valve VOFD-L50T-...	3/2-way valve, G1/4 connection, poppet valve a, modular product, system - can be configured using the online configurator		vofd
[4] Solenoid coil VACC-S18-...-A1-...	A1 standard solenoid		33
[5] Solenoid coil VACC-S18-...-ME	Ex-ME solenoid		33
[6] Solenoid coil VACC-S18-...-D	Ex-D solenoid		33
[7] Sub-base VABS-S7-RB-...	Sub-base for mounting two solenoid valves for redundant wiring		35

Peripherals

Accessories		→ Link
Type/order code	Description	
[8] Sub-base VABS-S7-BE-...	Sub-base as a pressurisation and exhaust block	35
[9] Mounting plate VAME-S7-P-N-V14-A	Mounting plate as a spacer plate for solenoid valves when combined with ATEX solenoid coils	35
[10] Throttle plate VABF-S7-F1B5P1-F	Exhaust air throttle plate for NAMUR interface for installation between solenoid valve and single-acting drives	36
[11] Sub-base VABS-S7-BE-BS-G14-VDE2	Sub-base for NAMUR interface for installation between solenoid valve and drives. Interface to the solenoid valve: VDI/VDE 3847. Interface to the drive: VDI/VDE 3845.	35
[12] Connection kit VABS-S7-S-G14-VDE1	Mounting plate for attaching the valve to the NAMUR rib	35
[13] Mounting plate VAME-S7-P	Mounting plate for attaching the valve to the NAMUR rib	36
[14] Mounting bracket VAME-S7-Y	Alternatively, (instead of using a screw) it is possible to fit the valve on the NAMUR rib using a mounting bracket	36
[15] Adapter NPFV-AF-...-MF	Adapter with filter	37
[16] Exhaust protection VABD-D3-SN-G14	Exhaust protection IP 65. The spring chamber of the solenoid valve is protected against the ingress of aggressive ambient air and water by the one-way flow control system	36
[17] Manual override VAOH-S8	Manual override	37

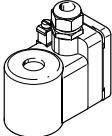
Peripherals

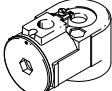
Peripherals overview, accessories: Interface valve pilot control solenoid coil 13 mm

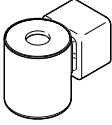


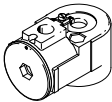
Accessories			→ Link
Type/order code	Description		
[1]	Solenoid coil VACC-S13-...-4A	EX-4A solenoid	vacc
[2]	Solenoid coil VACC-S13-...-ME	EX-ME solenoid	vacc
[3]	Solenoid coil VACC-S13-...-A1-...	A1 standard solenoid	vacc
[4]	Manual override VAOH-MB-S7-S13	Manual override (MO)	37
[5]	Basic valve VOFD-L12T-...	3/2-way valve, G1/4 connection, poppet valve, interface valve pilot control for solenoid coil 13 mm	vofd

Accessories

Solenoid coil EX4ME coil, VACC-S18-....-EX4ME				
	Nominal operating voltage	Characteristic coil data	Part no.	Type
	24 V DC and AC	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	8109388	VACC-S18-35-K4-1UF-EX4ME
			8109389	VACC-S18-35-K4-1U-EX4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W	8109395	VACC-S18-120-K4-1U-EX4ME
			8109394	VACC-S18-120-K4-1UF-EX4ME
	110 V DC and AC	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	8109392	VACC-S18-120-K4-2U-EX4ME
		110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	8109387	VACC-S18-35-K4-2U-EX4ME
	230 V DC and AC	230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	8109391	VACC-S18-120-K4-3U-EX4ME
		230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	8109386	VACC-S18-35-K4-3U-EX4ME
	48 V DC	48 V DC: 12.0 W	8109390	VACC-S18-120-K4-7-EX4ME
	60 V DC	60 V DC: 12.0 W	8109393	VACC-S18-120-K4-27-EX4ME

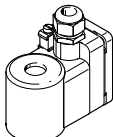
Solenoid coil EX4D coil, VACC-S18-....-EX4D				
	Nominal operating voltage	Characteristic coil data	Part no.	Type
	24 V DC and AC	24 V DC: 2.5 W, 24 V AC: 50/60 Hz, power 2.5 VA	562903	VACC-S18-25-K4-1U-EX4D
			562900	VACC-S18-25-K5-1U-EX4D
		24 V AC: 50/60 Hz, power 7.0 VA, 24 V DC: 7.0 W	3504563	VACC-S18-70-K4-1U-EX4D
			3546549	VACC-S18-70-K5-1U-EX4D
	110 V DC and AC	110 V AC: 50/60 Hz, power 2.5 VA, 110 V DC: 2.5 W	562901	VACC-S18-25-K5-2U-EX4D
			562904	VACC-S18-25-K4-2U-EX4D
		110 V AC: 50/60 Hz, power 7.0 VA, 110 V DC: 7.0 W	3546625	VACC-S18-70-K5-2U-EX4D
	230 V AC/50-60 Hz	230 V AC: 50/60 Hz, power 1.8 VA	3504741	VACC-S18-18-K4-3A-EX4D
			3546734	VACC-S18-18-K5-3A-EX4D
	230 V DC and AC	230 V AC: 50/60 Hz, power 2.5 VA, 230 V DC: 2.5 W	562902	VACC-S18-25-K5-3U-EX4D
			562905	VACC-S18-25-K4-3U-EX4D
		230 V AC: 50/60 Hz, power 7.0 VA, 230 V DC: 7.0 W	3546662	VACC-S18-70-K5-3U-EX4D
			3504639	VACC-S18-70-K4-3U-EX4D
	48 V DC and AC	48 V AC: 50/60 Hz, power 7.0 VA, 48 V DC: 7.0 W	3546588	VACC-S18-70-K5-7U-EX4D
			3504574	VACC-S18-70-K4-7U-EX4D
	120 V DC and AC	120 V AC: 50/60 Hz, power 7.0 VA, 120 V DC: 7.0 W	3504609	VACC-S18-70-K4-16U-EX4D

Solenoid coil A1 coil, VACC-S18-....-A1-1				
	Nominal operating voltage	Characteristic coil data	Part no.	Type
	24 V DC	24 V DC: 3.5 W	562906	VACC-S18-35-A1-1
		24 V DC: 12.0 W	8040580	VACC-S18-120-A1-1
	24 V AC/50-60 Hz	24 V AC: 50/60 Hz, power 12.0 VA	8040890	VACC-S18-120-A1-1A
		24 V AC: 50/60 Hz, power 3.5 VA	562907	VACC-S18-35-A1-1A
	110 V AC/50-60 Hz	110 V AC: 50/60 Hz, power 12.0 VA	8040582	VACC-S18-120-A1-2A
		110 V AC: 50/60 Hz, power 3.5 VA	562908	VACC-S18-35-A1-2A
	230 V AC/50-60 Hz	230 V AC: 50/60 Hz, power 12.0 VA	8040584	VACC-S18-120-A1-3A
		230 V AC: 50/60 Hz, power 3.5 VA	562909	VACC-S18-35-A1-3A

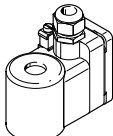
Solenoid coil U2D coil, VACC-S18-....-U2D					
	Nominal operating voltage	Characteristic coil data	Certification	Part no.	Type
	24 V DC	24 V DC: 7.0 W	cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)	3546816	VACC-S18-70-K5-1-U2D
	230 V DC	220 V DC: 7.0 W		3546949	VACC-S18-70-K5-3-U2D
	48 V DC	48 V DC: 7.0 W		3546876	VACC-S18-70-K5-7-U2D
	120 V DC	125 V DC: 7.0 W		3546913	VACC-S18-70-K5-16-U2D

Accessories

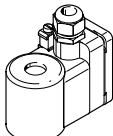
Solenoid coil NEPSI, VACC-S18-...-NE4ME

	Nominal operating voltage	Characteristic coil data	Certification	Part no.	Type
	24 V DC and AC	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	CCC-Ex (Ex certification China, EPL Gb and Db)	8118256	VACC-S18-35-K4-1UF-NE4ME
				8118257	VACC-S18-35-K4-1U-NE4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W		8118262	VACC-S18-120-K4-1UF-NE4ME
				8118263	VACC-S18-120-K4-1U-NE4ME
	110 V DC and AC	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W		8118260	VACC-S18-120-K4-2U-NE4ME
		110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W		8118255	VACC-S18-35-K4-2U-NE4ME
	230 V DC and AC	230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W		8118259	VACC-S18-120-K4-3U-NE4ME
		230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W		8118254	VACC-S18-35-K4-3U-NE4ME
	48 V DC	48 V DC: 12.0 W		8118258	VACC-S18-120-K4-7-NE4ME
	60 V DC	60 V DC: 12.0 W		8118261	VACC-S18-120-K4-27-NE4ME

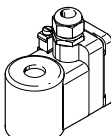
Solenoid coil VACC-S18-...-KS4ME

	Nominal operating voltage	Characteristic coil data	Certification	Part no.	Type
	24 V DC and AC	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	KOSHA (Ex certification Korea, EPL Gb and Db)	8118316	VACC-S18-35-K4-1UF-KS4ME
				8118317	VACC-S18-35-K4-1U-KS4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W		8118322	VACC-S18-120-K4-1UF-KS4ME
				8118323	VACC-S18-120-K4-1U-KS4ME
	110 V DC and AC	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W		8118320	VACC-S18-120-K4-2U-KS4ME
		110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W		8118315	VACC-S18-35-K4-2U-KS4ME
	230 V DC and AC	230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W		8118319	VACC-S18-120-K4-3U-KS4ME
		230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W		8118314	VACC-S18-35-K4-3U-KS4ME
	48 V DC	48 V DC: 12.0 W		8118318	VACC-S18-120-K4-7-KS4ME
	60 V DC	60 V DC: 12.0 W		8118321	VACC-S18-120-K4-27-KS4ME

Solenoid coil INMETRO, VACC-S18-...-NE4ME

	Nominal operating voltage	Characteristic coil data	Certification	Part no.	Type
	24 V DC and AC	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	INMETRO (Ex certification Brazil, EPL Gb and Db)	8118182	VACC-S18-35-K4-1U-NM4ME
				8118179	VACC-S18-35-K4-1UF-NM4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W		8118181	VACC-S18-120-K4-1U-NM4ME
				8118177	VACC-S18-120-K4-1UF-NM4ME
	110 V DC and AC	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W		8118178	VACC-S18-120-K4-2U-NM4ME

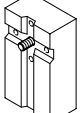
Accessories

Solenoid coil INMETRO, VACC-S18-...-NE4ME					
	Nominal operating voltage	Characteristic coil data	Certification	Part no.	Type
	110 V DC and AC	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	INMETRO (Ex certification Brazil, EPL Gb and Db)	8118174	VACC-S18-35-K4-2U-NM4ME
	230 V DC and AC	230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W		8118173	VACC-S18-120-K4-3U-NM4ME
		230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W		8118180	VACC-S18-35-K4-3U-NM4ME
	48 V DC	48 V DC: 12.0 W		8118175	VACC-S18-120-K4-7-NM4ME
	60 V DC	60 V DC: 12.0 W		8118176	VACC-S18-120-K4-27-NM4ME

Sub-base VABS-S7-BE-B-...					
	Operating pressure	Flow rate Kv pressurisation	Flow rate Kv exhaust	Part no.	Type
	0.2 ... 0.8 MPa	2.2 m³/h	8.6 m³/h	2999476	VABS-S7-BE-B-G14-VDE1
				4727328	VABS-S7-BE-B-N14-VDE1

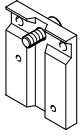
Sub-base VABS-S7-RB-B-...					
	Operating pressure	Corrosion resistance class CRC	Product weight	Part no.	Type
	0 ... 1 MPa	4 - Very high corrosion stress		4727331	VABS-S7-RB-B-N14-VDE1-R12
				3580505	VABS-S7-RB-B-G14-VDE1-R12
			750 g	8141067	VABS-S7-RB-B-G14-VDE2-R12

Sub-base VABS-S7-BE-BS-...					
	Operating pressure	Corrosion resistance class CRC	Product weight	Part no.	Type
	0 ... 1 MPa	4 - Very high corrosion stress	362 g	8072668	VABS-S7-BE-BS-G14-VDE2
			363 g	8211034	VABS-S7-BE-BS-G14-VDE3

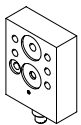
Sub-base VABS-S7-S-G14-VDE1					
	Corrosion resistance class CRC			Part no.	Type
	4 - Very high corrosion stress			563396	VABS-S7-S-G14-VDE1

Mounting plate VAME-S7-P-N-...					
	Operating pressure	Operating pressure	Operating pressure	Part no.	Type
	0 ... 1 MPa	0 ... 10 bar	0 ... 145 psi	3581412	VAME-S7-P-N-V14-A

Accessories

Mounting plate VAME-S7-P			
	Corrosion resistance class CRC	Part no.	Type
	4 - Very high corrosion stress	563399	VAME-S7-P

Mounting bracket VAME-S7-Y			
	Corrosion resistance class CRC	Part no.	Type
	4 - Very high corrosion stress	563403	VAME-S7-Y

Throttle plate for single-acting, VABF-S7-F1B5P1-F			
	Corrosion resistance class CRC	Part no.	Type
	4 - Very high corrosion stress	563401	VABF-S7-F1B5P1-F

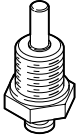
Exhaust protection VABD-D3-SN-G14					
	Ambient temperature	Operating pressure	Operating medium	Part no.	Type
	-50 ... 60 °C	0 ... 10 bar	Compressed air to ISO 8573-1:2010 [7:-:-]	563400	VABD-D3-SN-G14

Exhaust protection VABD-D3-SN-N12					
	Ambient temperature	Operating pressure	Operating medium	Part no.	Type
	-50 ... 60 °C	0 ... 12 bar	Compressed air to ISO 8573-1:2010 [7:-:-]	3535104	VABD-D3-SN-N12

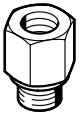
	Ambient temperature	Operating pressure	Operating medium	Part no.	Type
	-50 ... 60 °C	0 ... 10 bar	Compressed air to ISO 8573-1:2010 [7:-:-]	8177960	VABD-D3-L-GN14

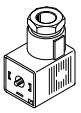
	Ambient temperature	Operating pressure	Operating medium	Part no.	Type
	-50 ... 60 °C	0 ... 12 bar	Compressed air to ISO 8573-1:2010 [7:-:-]	8177961	VABD-D3-L-GN12

Accessories

Manual override VAOH-S8				
	Type of actuation	Corrosion resistance class CRC	Part no.	Type
	Manual	3 - high corrosion stress	563402	VAOH-S8

Manual override VAOH-MB-S7-S13				
	Corrosion resistance class CRC	Part no.	Type	
	2 - Moderate corrosion stress	3580654	VAOH-MB-S7-S13	

Adapter with filter NPFV				
	Operating pressure	Corrosion resistance class CRC	Part no.	Type
	2 ... 8 bar	1 - Low corrosion stress	563398	NPFV-AF-G14-G14-MF
			4727333	NPFV-AF-N14-N14-MF
			563397	NPFV-AF-G14-N14-MF

Plug socket MSSD-C				
	Product weight	Part no.	Type	
	22 g	34583	MSSD-C	

Connecting cable KMC				
	Cable length	Corrosion resistance class CRC	Part no.	Type
	2.5 m	1 - Low corrosion stress	30932	KMC-1-230AC-2,5
			30931	KMC-1-24DC-2,5-LED
	5 m		30933	KMC-1-24DC-5-LED
			30934	KMC-1-230AC-5
	10 m		193459	KMC-1-24-10-LED