Vacuum generator VADM, VADMI

FESTO

Characteristics

All vacuum generators from Festo have a single-stage design and operate according to the Venturi principle.

- Compact dimensions
- Compact and sturdy design
- Minimal installation effort since the solenoid valve, vacuum generator and silencer are all a single unit
- Short switching times with integrated solenoid valves
- Integrated solenoid valve (on/off)
- VADMI: additional integrated solenoid valve for ejector pulse
- With integrated filter for the air to be evacuated and an inspection window which shows the filter contamination level
- Optionally with air saving function
- Optionally with vacuum switch for monitoring the vacuum with PNP or NPN output
- With manual override
- Safe setting down of workpieces

Additional documents   Link ⌁ vadm/vadmi

The additional document VADM-VADMI-ADD contains further information on the air saving function and external controller.

Diagrams   Link ⌁ vadm/vadmi

The diagrams shown in this document are also available online. These can be used to display precise values.

Series

[VADM]	Vacuum generator without ejector pulse

When a signal is sent to the integrated solenoid valve, compressed air flows through the suction nozzle and creates a vacuum. Once the voltage is switched off at the vacuum valve and switched on at the ejector pulse valve, the vacuum is rapidly purged at connection 2 as a result of the application of pressure. The integrated silencer reduces exhaust noise to a minimum.

- Integrated solenoid valve for vacuum ON/OFF

[VADMI]	Vacuum generator with ejector pulse

When a signal is sent to the integrated solenoid valve, compressed air flows through the suction nozzle and creates a vacuum. Once the voltage is switched off at the vacuum valve and switched on at the ejector pulse valve, the vacuum is rapidly purged at connection 2 as a result of the application of pressure.

- Two integrated solenoid valves for vacuum ON/OFF and ejector pulse
- With sensing interface
- With integrated check valve as safety function
- Air saving function possible in connection with vacuum switch and a higher-order logic circuit (e.g. PLC)

Characteristics

Air reduction

| [LS] | With air saving circuit |

The design of this vacuum generator is identical to the other VADMI types. This ejector also has an integrated vacuum switch with air saving function: If the pressure drops below the set vacuum range, vacuum generation is switched on automatically.

- Two integrated solenoid valves for vacuum ON/OFF and ejector pulse
- With sensing interface
- With integrated check valve as safety function
- Vacuum switch for pressure monitoring
- Integrated air-saving function
- Cable kit with plug sockets for solenoid coils and vacuum switches included in the scope of delivery

Type code

001	Series	
VADM	Vacuum generator without ejector pulse	
VADMI	Vacuum generator with ejector pulse	

002	Nominal width of Laval nozzle	
45	0.45 mm	
70	0.7 mm	
95	0.95 mm	
140	1.4 mm	
200	2.0 mm	
300	3.0 mm	

003	Air reduction	
LS	With air saving circuit	
	None	

004	Output signal vacuum sensor	
	Without vacuum sensor	
P	With 1 switching output PNP	
N	With 1 switching output NPN	

Datasheet

General technical data

Nominal size, Laval nozzle	0.45 mm	0.7 mm	0.95 mm	1.4 mm	2 mm	3 mm
Grid dimension	10 mm	15 mm	18 mm	22 mm		
Grade of filtration	≤40 µm					
Mounting position	optional					
Type of mounting	Either: With through-hole Via female thread					
Pneumatic connection, port 1	M5		G1/8		G1/4	
Vacuum connection	M5	G1/8		G1/4	G3/8	
Pneumatic connection, port 3	Integrated silencer					

Technical data – Design

Short type code	VADM			VADMI				
Air reduction	None			With air saving circuit		None		
Output signal vacuum sensor	Without vacuum sensor	With 1 switching output PNP	With 1 switching output NPN	With 1 switching output PNP	With 1 switching output NPN	Without vacuum sensor	With 1 switching output PNP	With 1 switching output NPN
Ejector characteristic	High vacuum							
Silencer design	Closed							
Integrated function	Electric on-off valve Filter	Electric on-off valve Filter Vacuum switch		Electric ejector pulse valve Flow control Electric on-off valve Filter Air saving function, electrical Check valve Vacuum switch		Electric ejector pulse valve Flow control Electric on-off valve Filter Check valve	Electric ejector pulse valve Flow control Electric on-off valve Filter Check valve Vacuum switch	
Valve function	Closed							
Manual override	Non-detenting							

Operating and environmental conditions

Nominal size, Laval nozzle	0.45 mm	0.7 mm	0.95 mm	1.4 mm	2 mm	3 mm
Operating pressure	0.15 ... 0.8 MPa		0.2 ... 0.8 MPa			
Operating pressure	1.5 ... 8 bar		2 ... 8 bar			
Operating pressure	21.75 ... 116 psi		29 ... 116 psi			
Nominal operating pressure	0.6 MPa					
Nominal operating pressure	6 bar					
Nominal operating pressure	87 psi					
Max. overload pressure [1]	5 bar					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating and pilot medium	Lubricated operation not possible					
Ambient temperature [2]	0 ... 60°C					
Media temperature	0 ... 60°C					
Corrosion resistance class CRC [3]	2 - Moderate corrosion stress					
CE mark (see declaration of conformity) [4]	To EU EMC Directive					
UKCA marking (see declaration of conformity) [5]	To UK instructions for EMC					
Approval [6]	RCM trademark c UL us - Recognized (OL)					

1) With vacuum switch -P/N (VADMI only)

2) With vacuum switch -P/N: 0... 50°C

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

4) With vacuum switch -P/N More information www.festo.com/catalogue/ms-frm → Support/Downloads.

5) With vacuum switch -P/N (only applies to VADMI): More information www.festo.com/catalogue/ms-frm → Support/Downloads.

6) RCM mark with vacuum switch -P/N

Datasheet

Performance data – High vacuum VADM (without ejector pulse)

Nominal size, Laval nozzle	0.45 mm	0.7 mm	0.95 mm	1.4 mm	2 mm	3 mm
Max. vacuum	85%					
Air supply time at nominal operating pressure [1]	5.9 s	2.2 s	1.18 s	0.69 s	0.29 s	0.26 s

1) Time required to reduce the vacuum from the nominal operating pressure to –0.05 bar.

Performance data – high vacuum VADMI (with ejector pulse)

Nominal size, Laval nozzle	0.45 mm	0.7 mm	0.95 mm	1.4 mm	2 mm	3 mm
Max. vacuum	85%					
Air supply time at nominal operating pressure with ejector pulse[1]	1.9 s	0.59 s	2.04 s	0.19 s	0.15 s	0.2 s

1) Time required to reduce the vacuum from the nominal operating pressure to –0.05 bar.

Technical data – Electrical connection

|	
Electrical connection	4-pin, M8x1, Plugs
Operational voltage range DC	21.6 … 26.4 V
Duty cycle	100%
Degree of protection	IP65

Technical data – Vacuum switch (mechanical)

Short type code	VADM	VADMI
Electrical connection	4-pin, M8x1, Plugs	
Measured variable	Relative pressure	
Measuring principle	Piezoresistive	
Pressure measuring range	0 … 0.1 MPa	
Pressure measuring range	0 … 1 bar	
Pressure measuring range	0 … 14.5 psi	
Setting options	Potentiometer	
Setting range threshold value	-90 … 0 kPa	
Setting range threshold value	-0.9 … 0 bar	
Setting range threshold value	-13.05 … 0 psi	
Hysteresis setting range	-50 … -5 kPa	-60 … -5 kPa
Setting range hysteresis	-0.5 … -0.05 bar	-0.6 … -0.05 bar
Setting range hysteresis	-7.25 … -0.725 psi	-8.7 … -0.725 psi
Display type	LED	
Switching status indication	Optical	

Technical data – Vacuum switch (electrical)

| Output signal vacuum sensor	With 1 switching output PNP	With 1 switching output NPN
Operational voltage range DC	21.6 … 26.4 V	
Switching output	PNP	NPN
Switching element function	N/O contact	
Switching function	Threshold value comparator	
Reverse polarity protection	For all electrical connections	

Datasheet

Control panel for vacuum switch
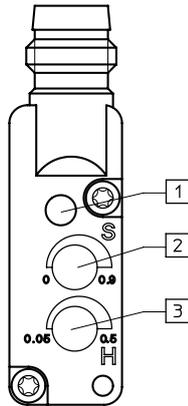
[1] Switching status indication, yellow LED
[2] Potentiometer for setting threshold values
[3] Potentiometer for setting hysteresis

Materials

Material housing	Wrought aluminium alloy
Material filter housing	PC
Material silencer	PE, POM
Material piston	POM
Material transmitter nozzle	Nickel-plated brass
Material receiver nozzle	Brass, nickel-plated
Material filter	PA
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Vacuum Δpu as a function of operating pressure p
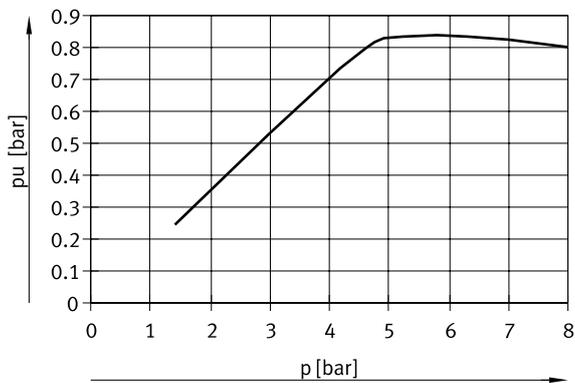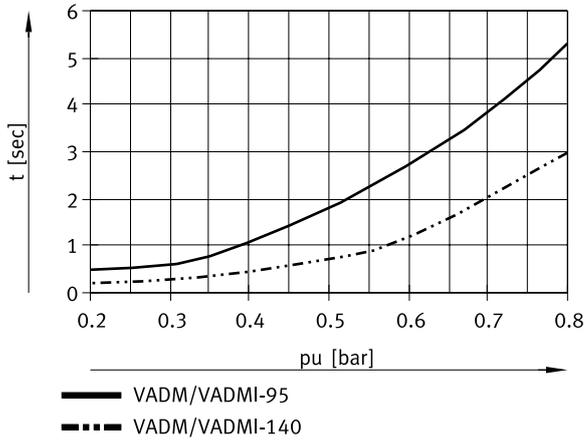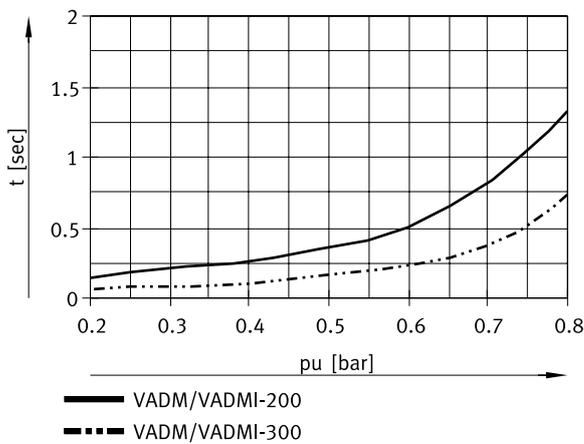
Datasheet

Evacuation time t [s] for a volume of 1 litre at an operating pressure of 6 bar (nominal width Laval nozzle 45/70)
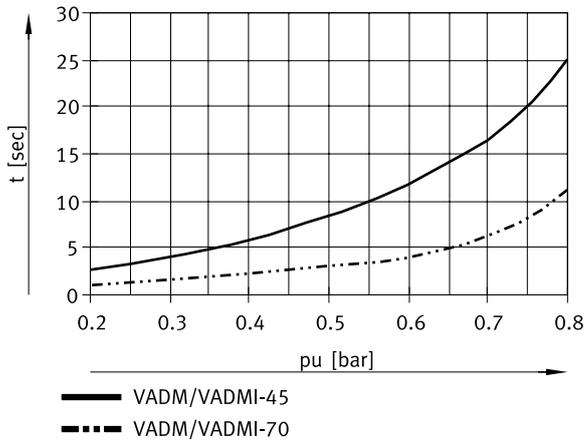
t [sec] vs pu [bar]

— VADM/VADMI-45
-··- VADM/VADMI-70

Evacuation time t [s] for a volume of 1 litre at an operating pressure of 6 bar (nominal width Laval nozzle 95/140)

t [sec] vs pu [bar]

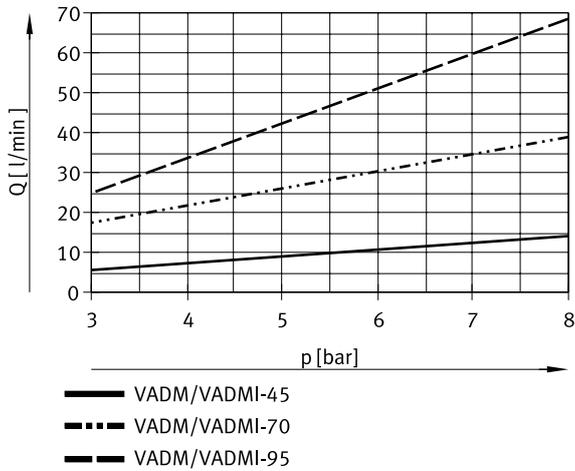— VADM/VADMI-95
-··- VADM/VADMI-140

Evacuation time t [s] for 1 litre volumes at 6 bar operating pressure (nominal width Laval nozzle 200/300)

t [sec] vs pu [bar]

— VADM/VADMI-200
-··- VADM/VADMI-300

Datasheet

Air consumption Q as a function of operating pressure p (nominal size Laval nozzle 45/70/95)

Legend:
- —— VADM/VADMI-45
- –·–· VADM/VADMI-70
- – – VADM/VADMI-95

Air consumption Q as a function of operating pressure p (nominal size Laval nozzle 140/200/300)

Legend:
- —— VADM/VADMI-140
- –·–· VADM/VADMI-200
- – – VADM/VADMI-300
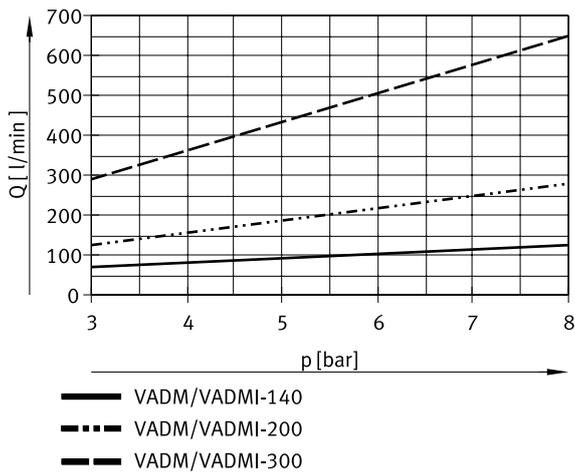
Noise level Lp as a function of operating pressure p (without suction flow)

Legend:
- —— VADM/VADMI-45
- –·–· VADM/VADMI-70
- – – VADM/VADMI-95
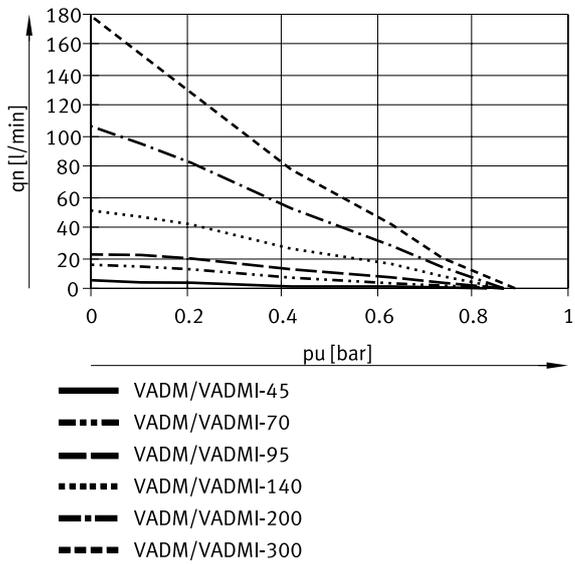- ······ VADM/VADMI-140
- –·– VADM/VADMI-200
- – – – VADM/VADMI-300
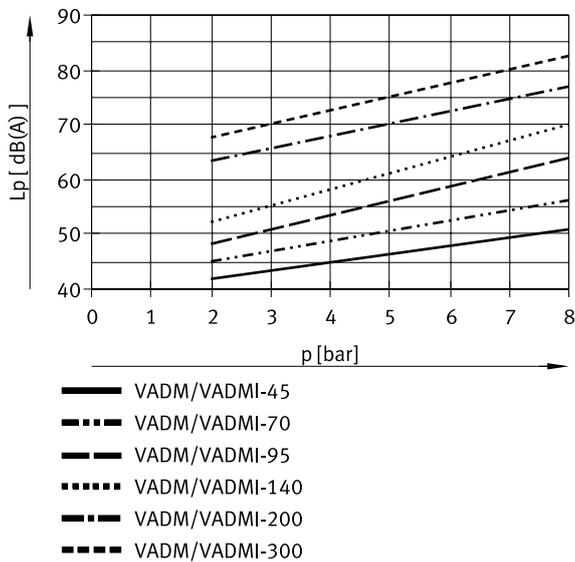
Datasheet

Efficiency η as a function of vacuum Δpu at Pnom 6 bar
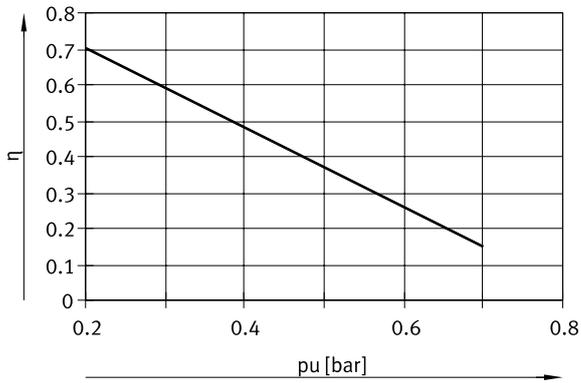
Suction volume flow qn as a function of vacuum Δpu at Pnom 6 bar

——	VADM/VADMI-45
▬▪▬▪▬	VADM/VADMI-70
▬ ▬ ▬	VADM/VADMI-95
▪▪▪▪▪▪	VADM/VADMI-140
▬▪▬▪▬	VADM/VADMI-200
▬ ▬ ▬ ▬	VADM/VADMI-300

Dimensions
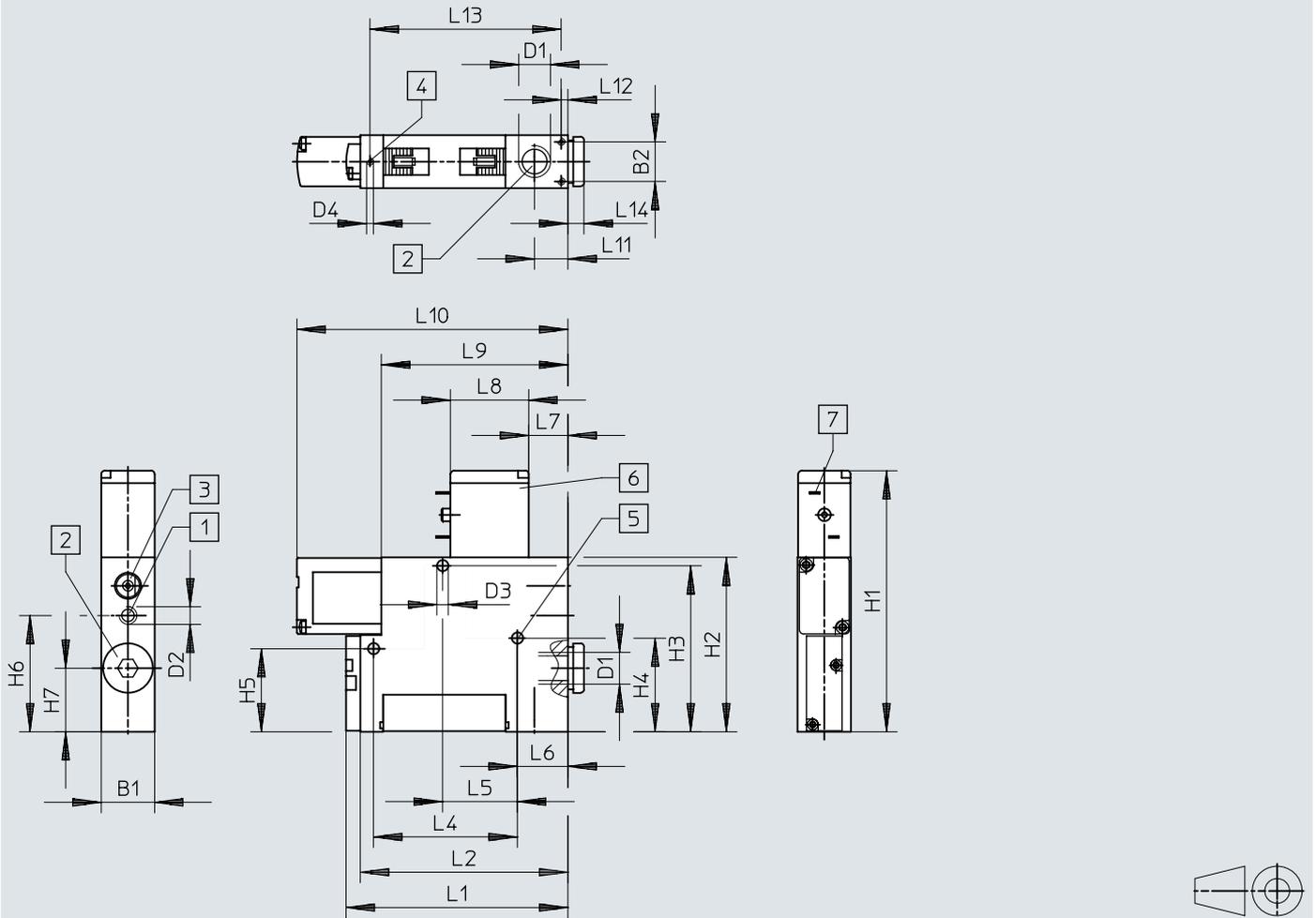
[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
[6] Solenoid coil can be rotated 180°
[7] Plug socket suitable for VADM-45/70: KMYZ, MSSD-ZBZC, VADM-95/140/200/300: KMEB, MSSD-EB

	B1	B2	D1	D2	D3 ⌀	D4	H1	H2	H3	H4	H5	H6	H7
VADM-45	10	6,2	M5	M5	3,2	M2	64,4	44,4	40,8	23,8	23,8	29,6	18
VADM-70	15	11,2	G1/8	M5	3,2	M2	73,9	49,4	47	26,5	23,5	32,9	18

	L1	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADM-45	45	41	33,6	25	3,6	11	16	41	56	7,9	1,9	36,3	4
VADM-70	62,3	58,3	40,4	21	14,2	11	22	52,4	76,1	9,4	1,9	53,7	4,5

Dimensions

Dimensions – VADM-95/140/200/300   Download CAD data ∂ www.festo.com

[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
[6] Solenoid coil can be rotated 180°
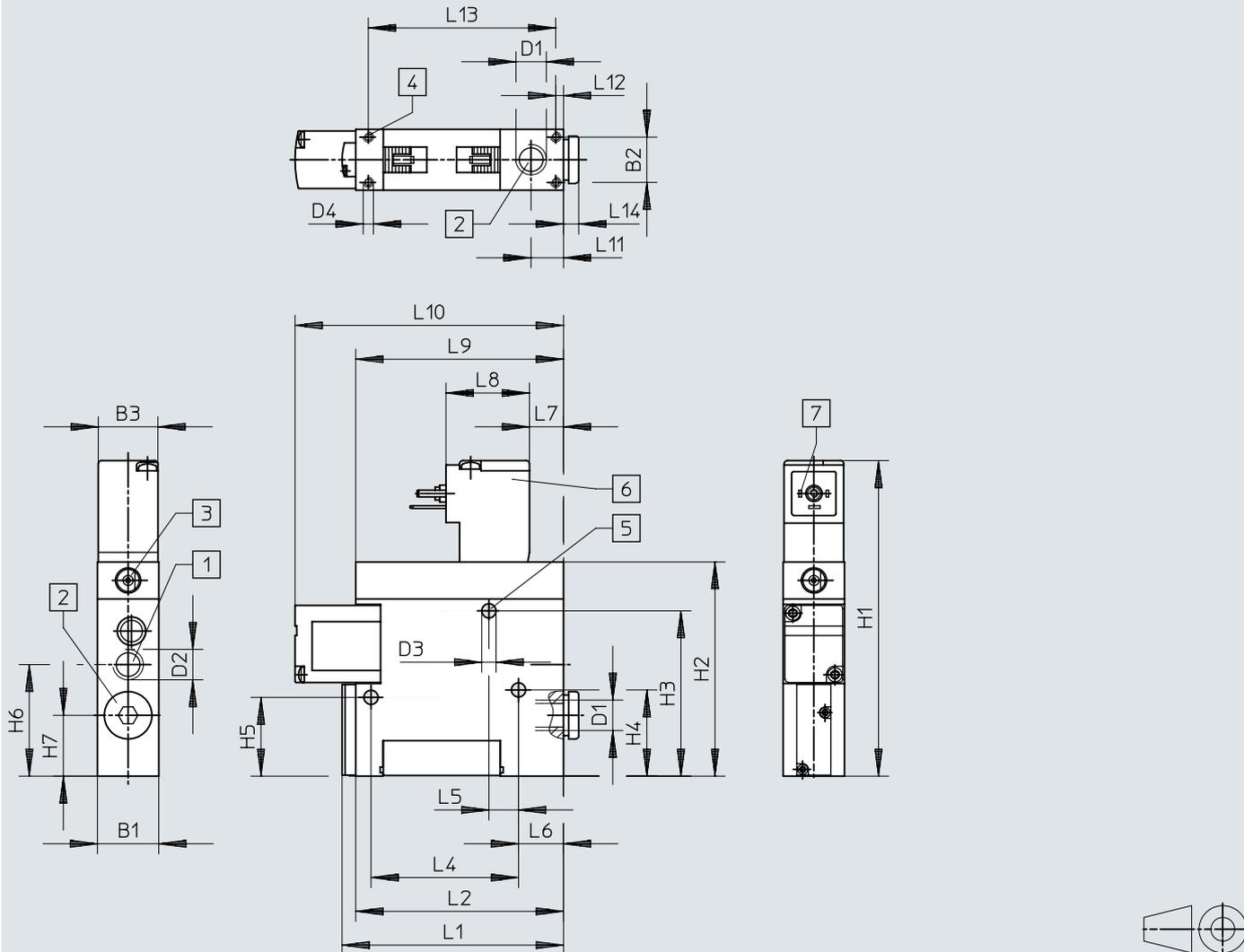[7] Plug socket suitable for VADM-45/70: KMYZ, MSSD-ZBZC, VADM-95/140/200/300: KMEB, MSSD-EB

	B1	B2	B3	D1	D2	D3 Ø	D4	H1	H2	H3	H4	H5	H6	H7
VADM-95	18	13,4	18	G1/8	G1/8	4,2	M2,5	93,4	63,4	48,9	25,5	23,3	33	18
VADM-140	22	16,6	18	G1/4	G1/8	5,2	M3	107,4	77,4	61,4	41,4	41,4	36	17,5
VADM-200	22	16,6	18	G3/8	G1/4	5,2	M3	113,4	83,4	67,7	41,4	41,4	40	19
VADM-300	22	16,6	18	G3/8	G1/4	5,2	M3	113,4	83,4	67,7	41,4	41,4	40	19

	L1	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADM-95	65	61	43,3	8,7	13,2	9,7	24,5	61	78,8	9,5	2,3	55	4,5
VADM-140	88	84	26	12,5	28,5	9,7	24,5	61	96,8	13,8	2,3	79,4	5
VADM-200	88	84	26	12,5	28,5	9,7	24,5	61	101,8	12,5	2,3	79,4	5
VADM-300	124,4	120,4	26	12,5	28,5	9,7	24,5	61	137,4	12,5	2,3	115,8	5

Dimensions

Dimensions – VADM-45/70-P/N Download CAD data ∂ www.festo.com

[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
[6] Solenoid coil can be rotated 180°
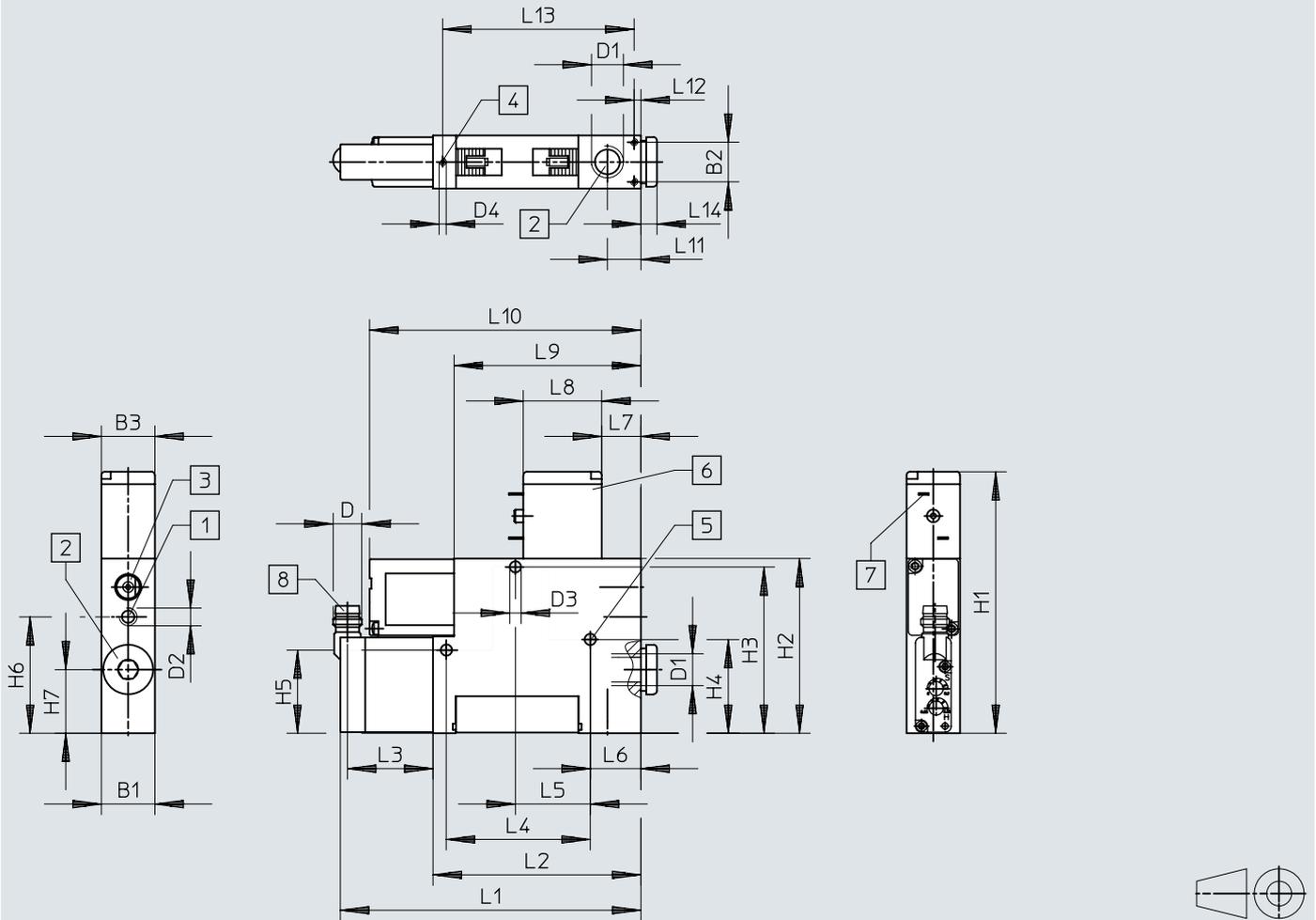[7] Plug socket suitable for VADM-45/70: KMYZ, MSSD-ZBZC, VADM-95/140/200/300: KMEB, MSSD-EB

	B1	B2	B3	D1	D2	D3 ∅	D4	H1	H2	H3	H4	H5	H6	H7
VADM-45-P/N	10	6,2	10	M5	M5	3,2	M2	64,4	44,4	40,8	23,8	23,8	29,6	18
VADM-70-P/N	15	11,2	15	G1/8	M5	3,2	M2	73,9	49,4	47	26,5	23,5	32,9	18

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADM-45-P/N	71,4	41	28,4	33,6	25	3,6	11	16	41	56	7,9	1,9	36,3	4
VADM-70-P/N	88,7	58,3	28,4	40,4	21	14,2	11	22	52,4	76,1	9,4	1,9	53,7	4,5

Dimensions

Dimensions – VADM-95/140/200/300-P/N Download CAD data ⌀ www.festo.com

[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
[6] Solenoid coil can be rotated 180°
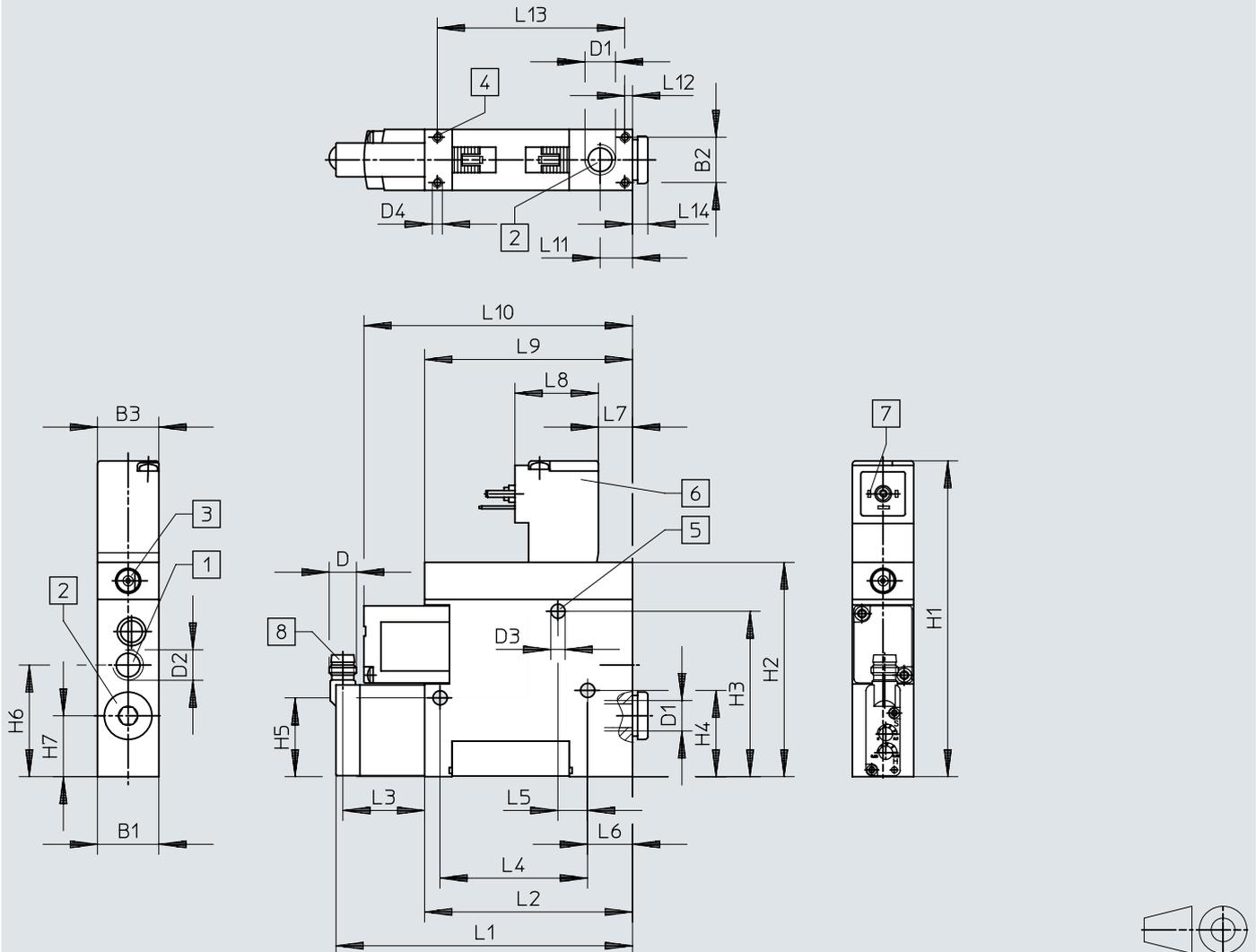[7] Plug socket suitable for VADM-45/70: KMYZ, MSSD-ZBZC, VADM-95/140/200/300: KMEB, MSSD-EB
[8] Connection for connecting cable NEBU-M8G4/M8W4

Dimensions

	B1	B2	B3	D1	D2	D3 ⌀	D4	H1	H2	H3	H4	H5	H6	H7
VADM-95-P/N	18	13,4	18	G1/8	G1/8	4,2	M2,5	93,4	63,4	48,9	25,5	23,3	33	18
VADM-140-P/N	22	16,6	18	G1/4	G1/8	5,2	M3	107,4	77,4	61,4	41,4	41,4	36	17,5
VADM-200-P/N	22	16,6	18	G3/8	G1/4	5,2	M3	113,4	83,4	67,7	41,4	41,4	40	19
VADM-300-P/N	22	16,6	18	G3/8	G1/4	5,2	M3	113,4	83,4	67,7	41,4	41,4	40	19

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADM-95-P/N	91,4	61	28,4	43,3	8,7	13,2	9,7	24,5	61	78,8	9,5	2,3	55	4,5
VADM-140-P/N	114,4	84	28,4	26	12,5	28,5	9,7	24,5	61	96,8	13,8	2,3	79,4	5
VADM-200-P/N	114,4	84	28,4	26	12,5	28,5	9,7	24,5	61	101,8	12,5	2,3	79,4	5
VADM-300-P/N	150,8	120,4	28,4	26	12,5	28,5	9,7	24,5	61	137,4	12,5	2,3	115,8	5

Dimensions
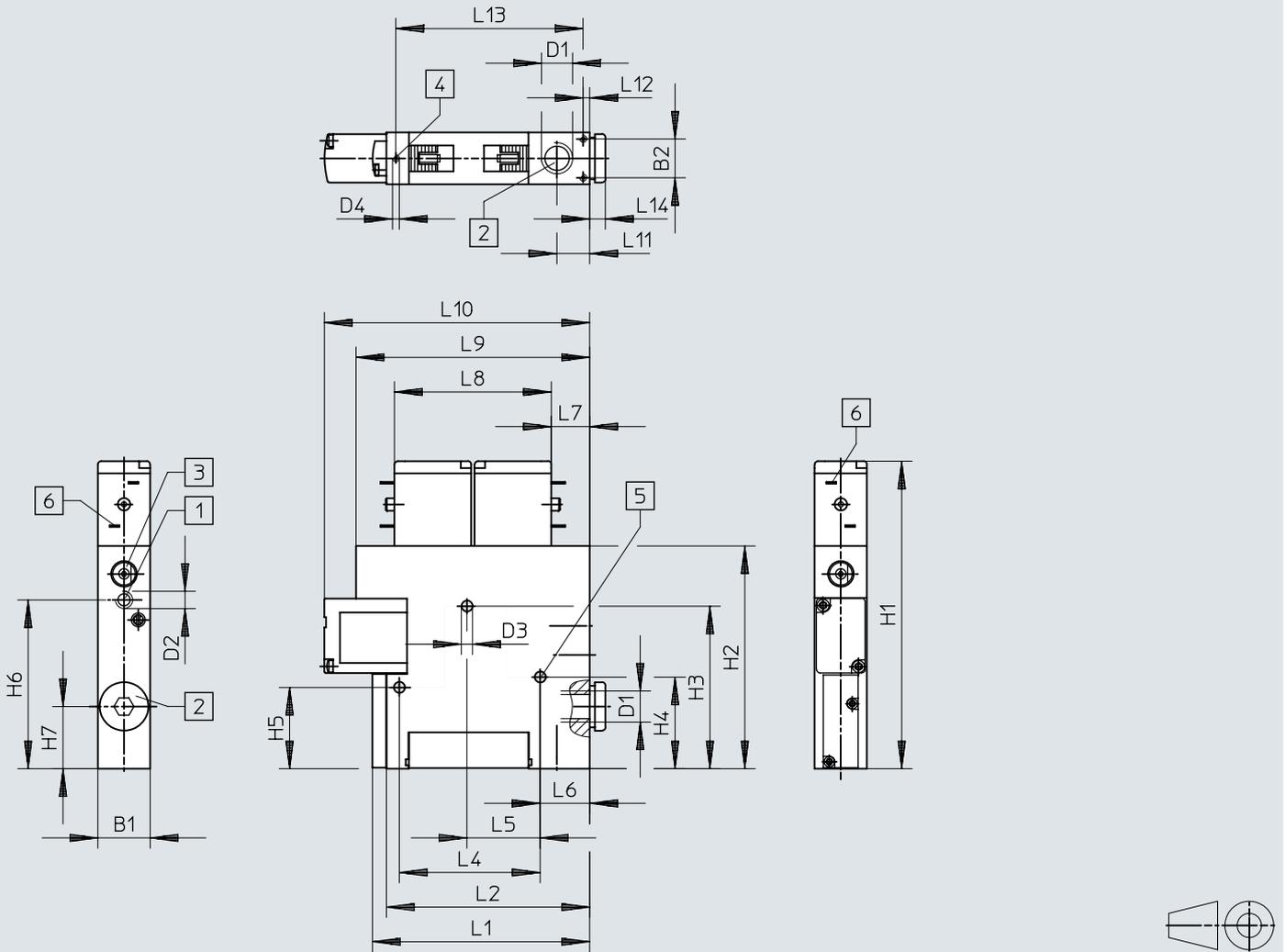
[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
[6] Plug socket suitable for VADMI-45/70: KMYZ, MSSD-ZBZC, VADMI-95/140/200/300: KMEB, MSSD-EB

	B1	B2	D1	D2	D3 ∅	D4	H1	H2	H3	H4	H5	H6	H7
VADMI-45	10	6,2	M5	M5	3,2	M2	78,2	58,2	40,8	23,8	23,8	43,4	18
VADMI-70	15	11,2	G1/8	M5	3,2	M2	88,9	64,4	47	26,5	23,5	48,8	18

	L1	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADMI-45	45	41	33,6	25	3,6	11	33	55	56	7,9	1,9	36,3	4
VADMI-70	62,3	58,3	40,4	21	14,2	11	45	67	76,1	9,4	1,9	53,7	4,5

Dimensions

Dimensions – VADMI-95/140/200/300
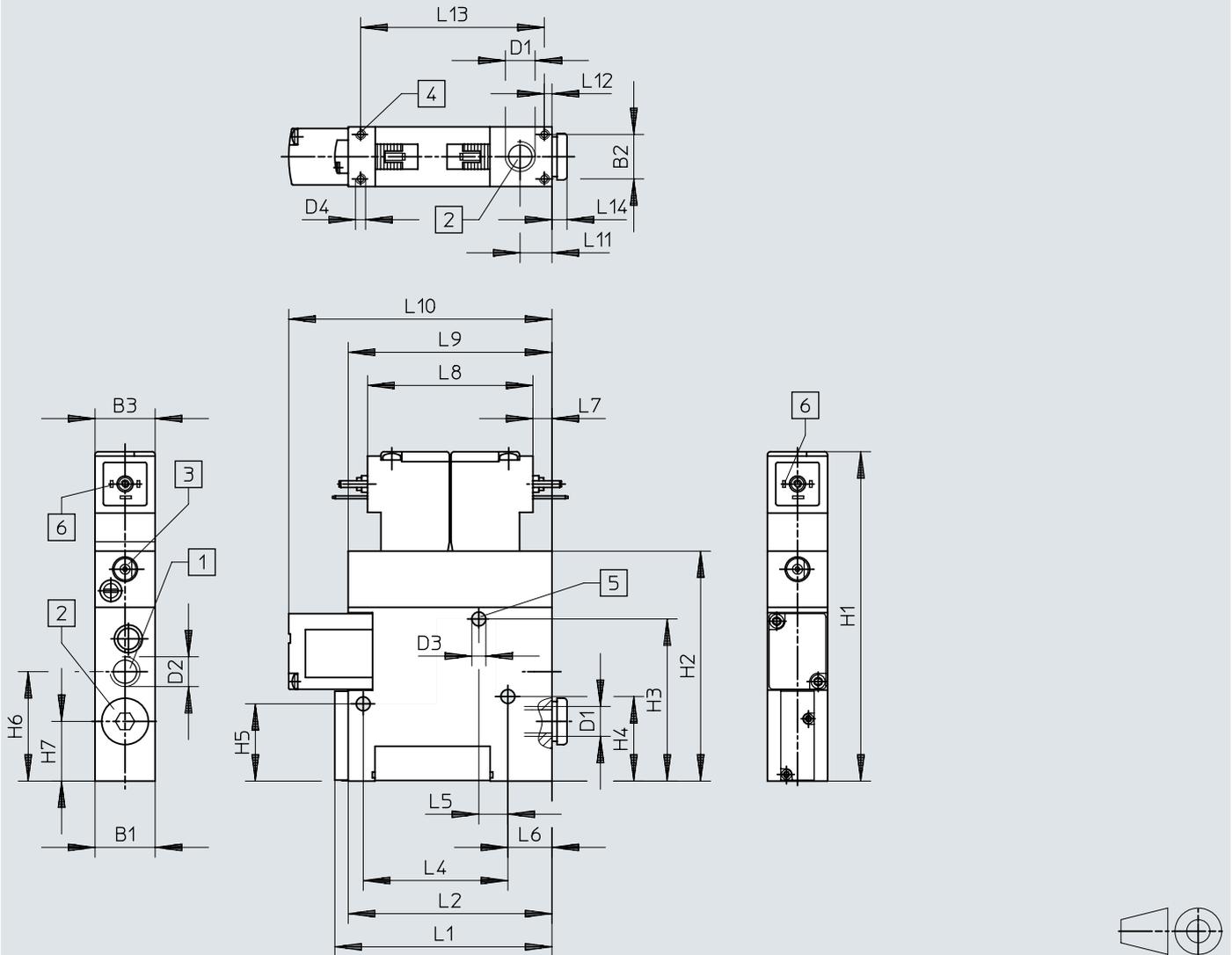
[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
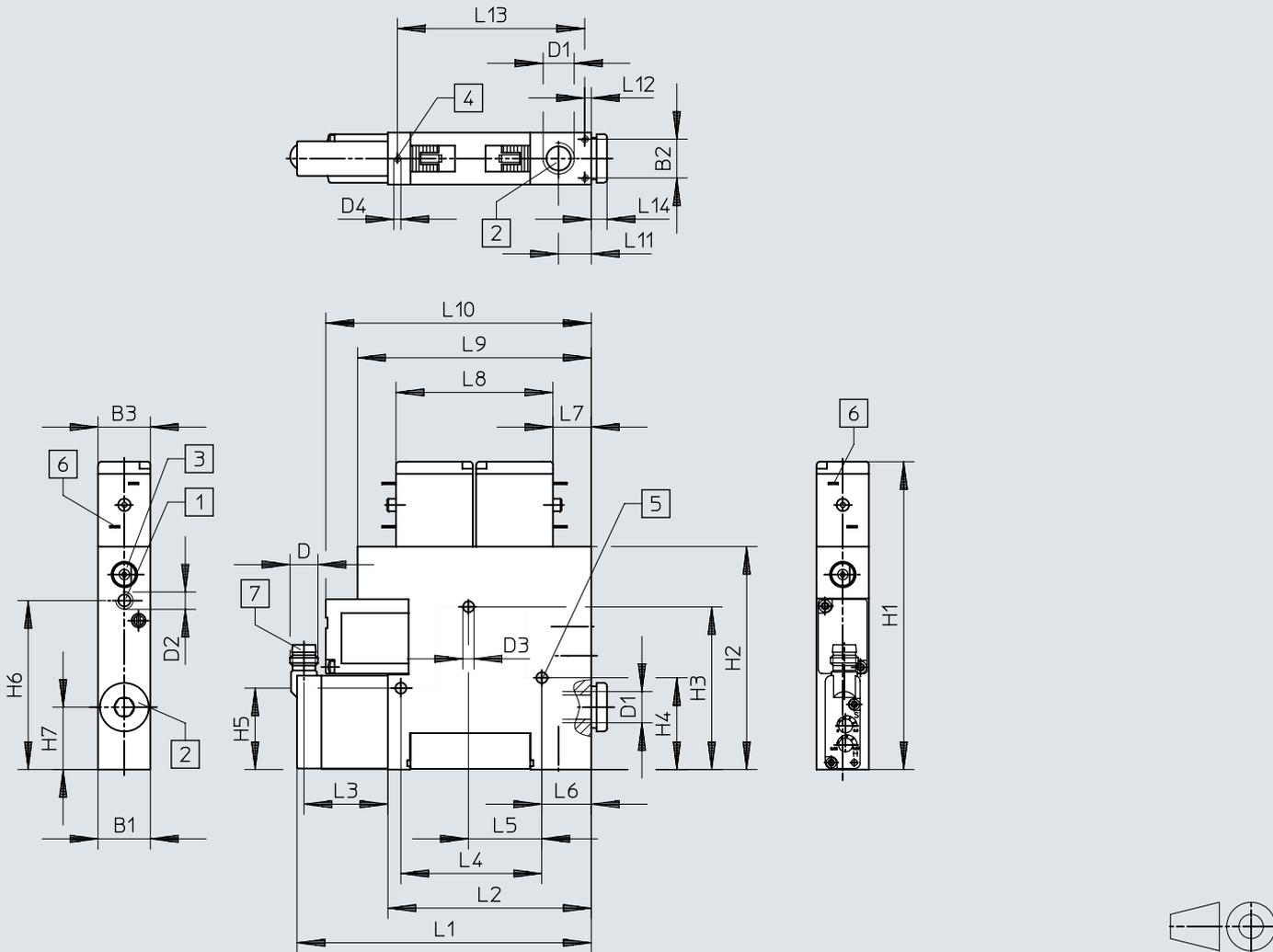[6] Plug socket suitable for VADMI-45/70: KMYZ, MSSD-ZBZC, VADMI-95/140/200/300: KMEB, MSSD-EB

	B1	B2	B3	D1	D2	D3 ⌀	D4	H1	H2	H3	H4	H5	H6	H7
VADMI-95	18	13,4	18	G1/8	G1/8	4,2	M2,5	99,4	69,4	48,9	25,5	23,3	33	18
VADMI-140	22	16,6	18	G1/4	G1/8	5,2	M3	113,4	83,4	61,4	41,4	41,4	36	17,5
VADMI-200	22	16,6	18	G3/8	G1/4	5,2	M3	119,4	89,4	67,7	41,4	41,4	40	19
VADMI-300	22	16,6	18	G3/8	G1/4	5,2	M3	119,4	89,4	67,7	41,4	41,4	40	19

	L1	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADMI-95	65	61	43,3	8,7	13,2	5,7	49,5	61	78,8	9,5	2,3	55	4,5
VADMI-140	88	84	26	12,5	28,5	5,7	49,5	61	96,8	13,8	2,3	79,4	5
VADMI-200	88	84	26	12,5	28,5	5,7	49,5	61	101,8	12,5	2,3	79,4	5
VADMI-300	124,4	120,4	26	12,5	28,5	5,7	49,5	61	137,4	12,5	2,3	115,8	5

Dimensions

Dimensions – VADMI-45/70(-LS)-P/N

[1] Compressed air supply port
[2] Vacuum connection
[3] Manual override
[4] Mounting thread
[5] Mounting hole
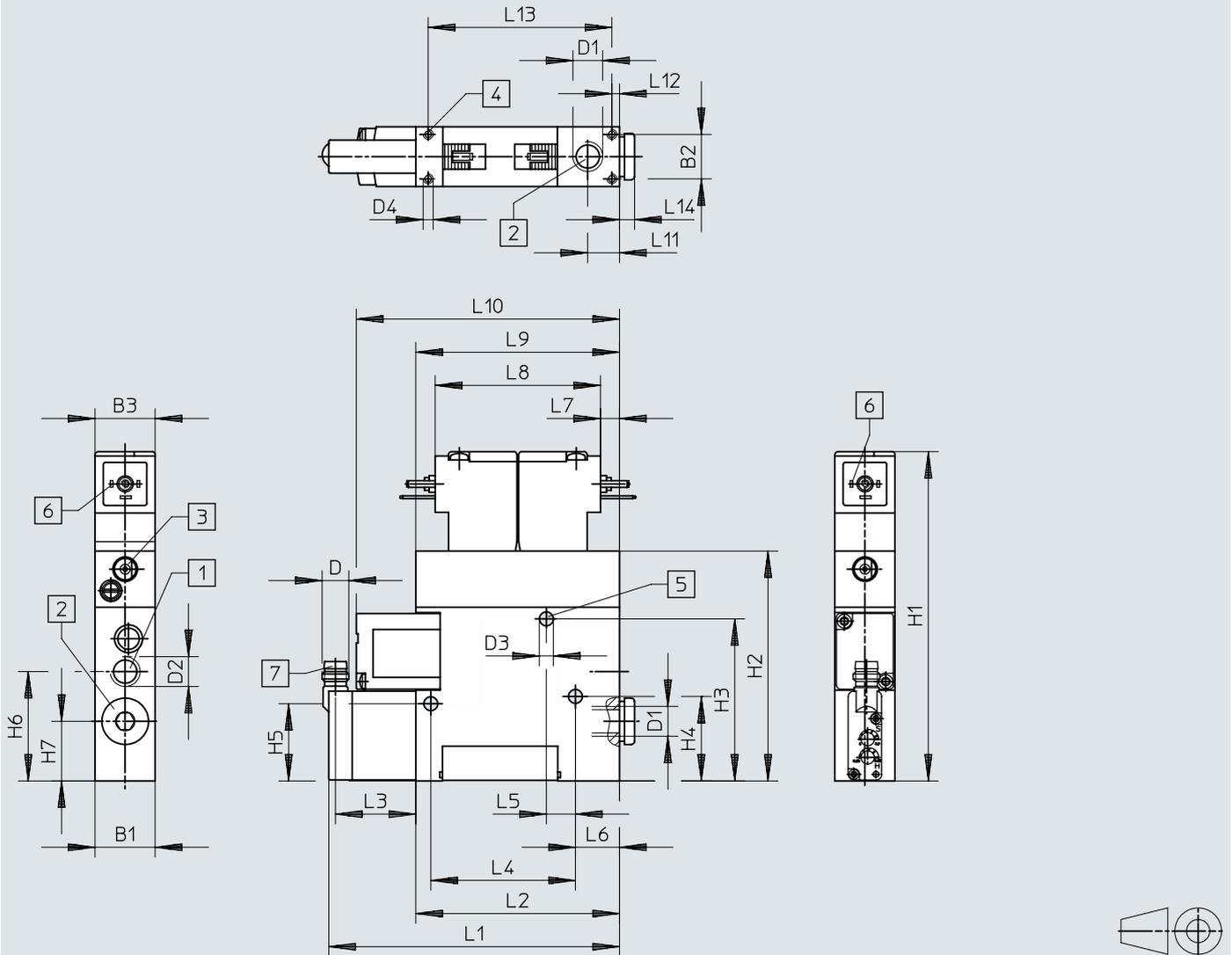[6] Plug socket suitable for VADMI-45/70: KMYZ, MSSD-ZBZC, VADMI-95/140/200/300: KMEB, MSSD-EB

	B1	B2	B3	D1	D2	D3 ⌀	D4	H1	H2	H3	H4	H5	H6	H7
VADMI-45(-LS)-P/N	10	6,2	10	M5	M5	3,2	M2	78,2	58,2	40,8	23,8	23,8	43,4	18
VADMI-70(-LS)-P/N	15	11,2	15	G1/8	M5	3,2	M2	88,9	64,4	47	26,5	23,5	48,8	18

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADMI-45(-LS)-P/N	71,4	41	28,4	33,6	25	3,6	11	33	55	56	7,9	1,9	36,3	4
VADMI-70(-LS)-P/N	88,7	58,3	28,4	40,4	21	14,2	11	45	67	76,1	9,4	1,9	53,7	4,5

Dimensions

Dimensions – VADMI-95/140/200/300(-LS)-P/N   Download CAD data ⌀ www.festo.com

[1]   Compressed air supply port
[2]   Vacuum connection
[3]   Manual override
[4]   Mounting thread
[5]   Mounting hole
[6]   Plug socket suitable for VADMI-45/70: KMYZ, MSSD-ZBZC, VADMI-95/140/200/300: KMEB, MSSD-EB
[7]   Connection for connecting cable NEBU-M8G4/M8W4

Dimensions

	B1	B2	B3	D1	D2	D3 ∅	D4	H1	H2	H3	H4	H5	H6	H7
VADMI-95(-LS)-P/N	18	13,4	18	G1/8	G1/8	4,2	M2,5	99,4	69,4	48,9	25,5	23,3	33	18
VADMI-140(-LS)-P/N	22	16,6	18	G1/4	G1/8	5,2	M3	113,4	83,4	61,4	41,4	41,4	36	17,5
VADMI-200(-LS)-P/N	22	16,6	18	G3/8	G1/4	5,2	M3	119,4	89,4	67,7	41,4	41,4	40	19
VADMI-300(-LS)-P/N	22	16,6	18	G3/8	G1/4	5,2	M3	119,4	89,4	67,7	41,4	41,4	40	19

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADMI-95(-LS)-P/N	91,4	61	28,4	43,3	8,7	13,2	5,7	49,5	61	78,8	9,5	2,3	55	4,5
VADMI-140(-LS)-P/N	114,4	84	28,4	26	12,5	28,5	5,7	49,5	61	96,8	13,8	2,3	79,4	5
VADMI-200(-LS)-P/N	114,4	84	28,4	26	12,5	28,5	5,7	49,5	61	101,8	12,5	2,3	79,4	5
VADMI-300(-LS)-P/N	150,8	120,4	28,4	26	12,5	28,5	5,7	49,5	61	137,4	12,5	2,3	115,8	5

Ordering data

Ordering data – Without ejector pulse

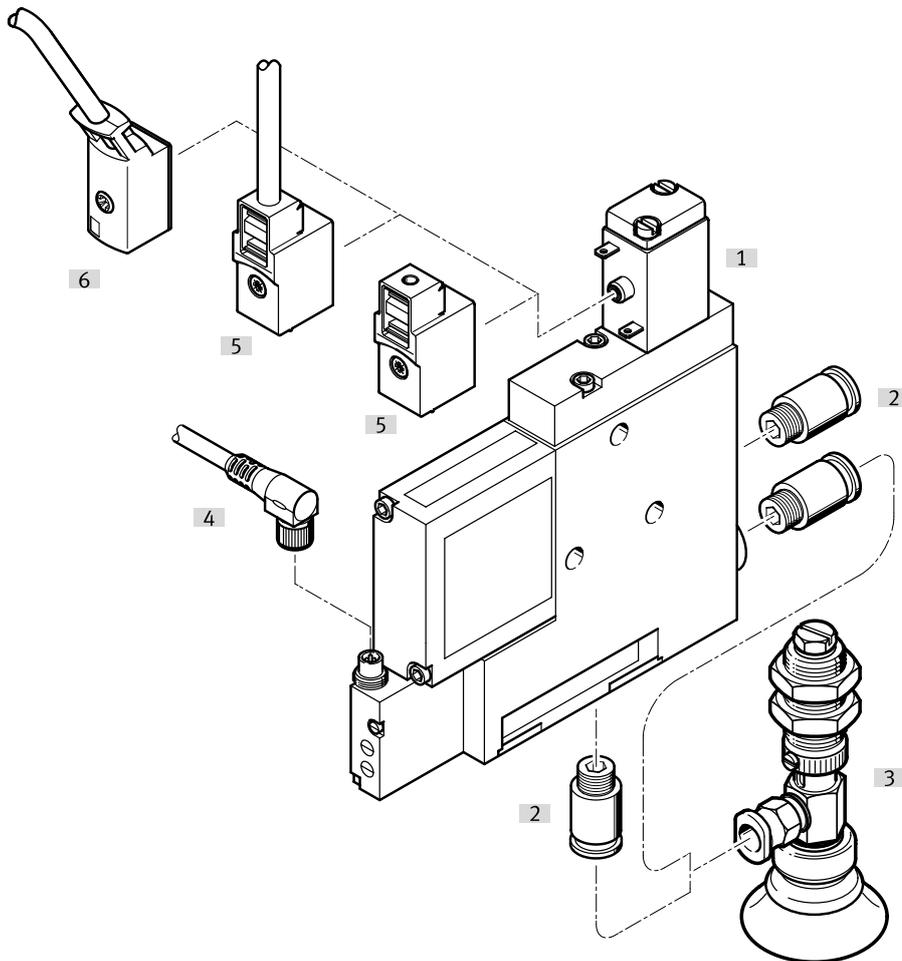| Nominal size, Laval nozzle	Pneumatic connection, port 1	Vacuum connection	Output signal vacuum sensor	Product weight	Part no.	Type
0.45 mm	M5	M5	Without vacuum sensor	60 g	**162500**	**VADM-45**
			With 1 switching output PNP	65 g	162512	**VADM-45-P**
			With 1 switching output NPN		162513	**VADM-45-N**
0.7 mm		G1/8	Without vacuum sensor	140 g	162501	**VADM-70**
			With 1 switching output PNP	145 g	162514	**VADM-70-P**
			With 1 switching output NPN		162515	**VADM-70-N**
0.95 mm	G1/8		Without vacuum sensor	210 g	162502	**VADM-95**
			With 1 switching output PNP	220 g	162516	**VADM-95-P**
			With 1 switching output NPN		162517	**VADM-95-N**
1.4 mm		G1/4	Without vacuum sensor	290 g	162503	**VADM-140**
			With 1 switching output PNP	300 g	162518	**VADM-140-P**
			With 1 switching output NPN		162519	**VADM-140-N**
2 mm	G1/4	G3/8	Without vacuum sensor	320 g	162504	**VADM-200**
			With 1 switching output PNP	330 g	162520	**VADM-200-P**
			With 1 switching output NPN		162521	**VADM-200-N**
3 mm			Without vacuum sensor	340 g	162505	**VADM-300**
			With 1 switching output PNP	350 g	162522	**VADM-300-P**
			With 1 switching output NPN		162523	**VADM-300-N**

Ordering data – With ejector pulse

Nominal size, Laval nozzle	Pneumatic connection, port 1	Vacuum connection	Output signal vacuum sensor	Product weight	Part no.	Type
0.45 mm	M5	M5	Without vacuum sensor	85 g	**162506**	**VADMI-45**
			With 1 switching output PNP	90 g	162524	**VADMI-45-P**
			With 1 switching output NPN		162525	**VADMI-45-N**
0.7 mm		G1/8	Without vacuum sensor	170 g	162507	**VADMI-70**
			With 1 switching output PNP	180 g	162526	**VADMI-70-P**
			With 1 switching output NPN		162527	**VADMI-70-N**
0.95 mm	G1/8		Without vacuum sensor	240 g	162508	**VADMI-95**
			With 1 switching output PNP	250 g	162528	**VADMI-95-P**
			With 1 switching output NPN		162529	**VADMI-95-N**
1.4 mm		G1/4	Without vacuum sensor	320 g	162509	**VADMI-140**
			With 1 switching output PNP	330 g	162530	**VADMI-140-P**

Ordering data

Ordering data – With ejector pulse

Nominal size, Laval nozzle	Pneumatic connection, port 1	Vacuum connection	Output signal vacuum sensor	Product weight	Part no.	Type
1.4 mm	G1/8	G1/4	With 1 switching output NPN	330 g	162531	VADMI-140-N
2 mm	G1/4	G3/8	Without vacuum sensor	350 g	162510	VADMI-200
			With 1 switching output PNP	360 g	162532	VADMI-200-P
			With 1 switching output NPN		162533	VADMI-200-N
3 mm			Without vacuum sensor	370 g	162511	VADMI-300
			With 1 switching output PNP	380 g	162534	VADMI-300-P
			With 1 switching output NPN		162535	VADMI-300-N

Ordering data – With ejector pulse and air saving function

Nominal size, Laval nozzle	Pneumatic connection, port 1	Vacuum connection	Output signal vacuum sensor	Product weight	Part no.	Type
0.45 mm	M5	M5	With 1 switching output PNP	90 g	171053	VADMI-45-LS-P
			With 1 switching output NPN		171054	VADMI-45-LS-N
0.7 mm		G1/8	With 1 switching output PNP	180 g	171055	VADMI-70-LS-P
			With 1 switching output NPN		171056	VADMI-70-LS-N
0.95 mm	G1/8		With 1 switching output PNP	250 g	171057	VADMI-95-LS-P
			With 1 switching output NPN		171058	VADMI-95-LS-N
1.4 mm		G1/4	With 1 switching output PNP	330 g	171059	VADMI-140-LS-P
			With 1 switching output NPN		171060	VADMI-140-LS-N
2 mm	G1/4	G3/8	With 1 switching output PNP	360 g	171061	VADMI-200-LS-P
			With 1 switching output NPN		171062	VADMI-200-LS-N
3 mm			With 1 switching output PNP	380 g	171063	VADMI-300-LS-P
			With 1 switching output NPN		171064	VADMI-300-LS-N

Peripherals

VADM/VADMI-45/70

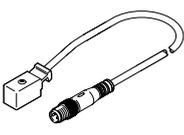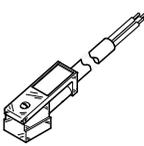| Accessories			→ Link
	Type/order code	Description	
[1]	Vacuum generator VADM/VADMI		𝒮 vadm
[2]	Push-in fitting QS		𝒮 qs
[3]	Suction gripper ESG		𝒮 esg
[4]	Connecting cable NEBA-M8G4/M8W4		26
[5]	Plug socket MSSD-ZBZC		25
[6]	Connecting cable KMYZ-2		25
[7]	Suction cup holder ESH	Not shown	𝒮 esh
[8]	Suction cup with connector ESS	Not shown	𝒮 ess
[9]	Illuminating seal MEB-LD	For plug socket with cable KMEB and plug socket MSSD-EB (not shown)	25

Peripherals

VADM/VADMI-95/140/200/300

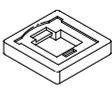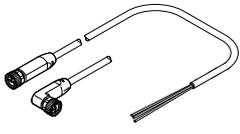| Accessories			→ Link
	Type/order code	Description	
[1]	Vacuum generator VADM/VADMI		𝒮 vadm
[2]	Push-in fitting QS		𝒮 qs
[3]	Suction gripper ESG		𝒮 esg
[4]	Connecting cable NEBA-M8G4/M8W4		26
[5]	Plug socket MSSD-EB		25
[6]	Plug socket with cable KMEB		25
[7]	Suction cup holder ESH	Not shown	𝒮 esh
[8]	Suction cup with connector ESS	Not shown	𝒮 ess
[9]	Illuminating seal MEB-LD	For plug socket with cable KMEB and plug socket MSSD-EB (not shown)	25

Accessories

Plug socket MSSD-ZBZC (for VADM/VADMI-45/70)
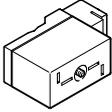
	Electrical connection	Type of mounting	Product weight	Part no.	Type
	Socket	On solenoid valve via self-tapping screw	11 g	**185521**	**MSSD-ZBZC**

Plug socket MSSD-EB (for VADM/VADMI-95/140/200/300)

	Electrical connection	Type of mounting	Product weight	Part no.	Type
			11 g	**539712**	**MSSD-EB-M12**
	3-pin, Socket, Angled socket, Type C, To DIN EN 175301-803, To DIN EN 61984, Square design MSEB, Square design MSN2	On solenoid valve via M2.5 central screw		**151687**	**MSSD-EB**

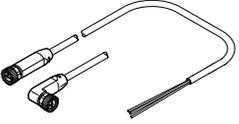**Connecting cable KMYZ-2**

	Electrical connection	Switching position indicator	Cable length	Part no.	Type
	2-pin/2-wire, Angled socket/cable, Square design/open end	LED	2.5 m	**34997**	**KMYZ-2-24-2,5-LED**
			5 m	**34998**	**KMYZ-2-24-5-LED**
			10 m	**193443**	**KMYZ-2-24-10-LED**
	2-pin/3-pin, Angled socket/straight plug, Square design/M8x1		0.5 m	**177676**	**KMYZ-2-24-M8-0,5-LED**
			2.5 m	**177678**	**KMYZ-2-24-M8-2,5-LED**

Plug socket with cable KMEB

	Electrical connection 1	Electrical connection 2, connector system	Switching position indicator	Cable length	Part no.	Type
			LED	0.5 m	**177677**	**KMEB-2-24-M12-0,5-LED**
				2.5 m	**174844**	**KMEB-2-24-2,5-LED**
				5 m	**174845**	**KMEB-2-24-5-LED**
	Socket, to EN 175301-803, type C	Open end		2.5 m	**151688**	**KMEB-1-24-2.5-LED**
				5 m	**151689**	**KMEB-1-24-5-LED**
				10 m	**193457**	**KMEB-1-24-10-LED**

Illuminating seal MEB-LD

	Operational voltage range DC	Part no.	Type
	12 … 24 V	**151717**	**MEB-LD-12-24DC**

Connecting cable NEBA-M8

	Electrical connection 1, connector system	Electrical connection 1, number of connections/cores	Electrical connection 1, cable outlet	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101, M8x1, A-coded, to EN 61076-2-104, Open end, Diameter 8 mm, A-coded to EN 61076-2-104	3 … 5	Straight, angled	0.3 … 30 m	**8078221**	**NEBA-**

Accessories

Connecting cable NEBA-M8

	Electrical connection 1, connector system	Electrical connection 1, number of connections/ cores	Electrical connection 1, cable outlet	Cable length	Part no.	Type
	M8x1, A-coded, to EN 61076-2-104	4	Straight	2.5 m	**8078227**	**NEBA-M8G4-U-2.5-N-LE4**
				5 m	**8078228**	**NEBA-M8G4-U-5-N-LE4**
			Angled	2.5 m	**8078233**	**NEBA-M8W4-U-2.5-N-LE4**
				5 m	**8078234**	**NEBA-M8W4-U-5-N-LE4**
				10 m	**8078235**	**NEBA-M8W4-U-10-N-LE4**