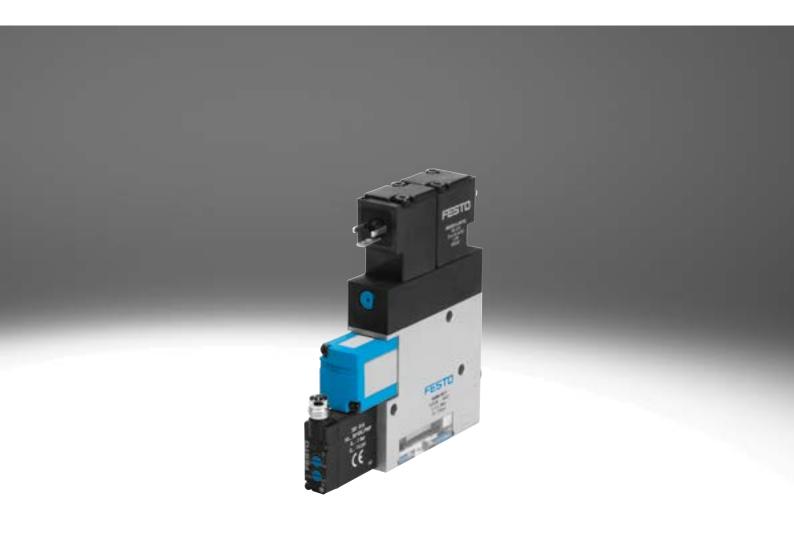
FESTO



Product overview

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

The product series described below have been designed for a wide range of applications. The different performance classes of the individual product series make it possible to select vacuum generators tailored to suit the specific requirements of each application.

Standard and inline ejectors

VN

Datasheets → Internet: vn



- Nominal width 0.45 ... 3 mm
- Max. vacuum 93%
- Temperature range 0 ... +60 °C
- A range of extremely effective generators suitable for use directly in the working area
- Available as a straight or T-shaped design
- Small footprint
- Cost effective
- No wearing parts
- Extremely fast evacuation time
- Optional vacuum switch
- Optional additional functions:
 - Integrated ejector pulse
 - Electrical control for vacuum ON/OFF
 - Combination of ejector pulse and actuation

VAD/VAK

Datasheets → Internet: vad



- Nominal width
 0.5 ... 1.5 mm
- Max. vacuum 80%
- Temperature range -20 ... +80 °C
- Range of vacuum generators with sturdy aluminium housing
- VAK-...: integrated volume,

 $\label{eq:VAD-...:} \textit{connection for external volume}$

- Maintenance-free
- VAK: reliable setting down of workpieces

Datasheets → Internet: ovem

Datasheets → Internet: vad-m

→ page 7

Key features

Compact ejectors OVEM



- Nominal width 0.45 ... 2 mm
- Max. vacuum 93%
- Temperature range 0 ... +50 °C
- Compact design
- Minimal installation effort
- Short switching times
- Integrated solenoid valves for vacuum ON/OFF and ejector pulse
- · Filter with display
- Vacuum sensor with LCD display for continuously monitoring the entire vacuum system
- Optional air-saving function
- Reliable setting down of workpieces
- Linking multiple vacuum generators on a common supply manifold

VADM/VADMI



- Nominal width 0.45 ... 3 mm
- Max. vacuum 85%
- Temperature range 0 ... +60 °C
- Compact design
- · Minimal installation effort
- · Short switching times
- Integrated solenoid valve (on/off)
- · VADMI: additional integrated solenoid valve for ejector pulse
- Filter with display
- Optional air-saving function
- Optional vacuum switch
- · Reliable setting down of workpieces

VAD-M



- Nominal width 0.7 ... 2 mm
- Max. vacuum
- Temperature range 0 ... +40 °C
- Compact design
- Minimal installation effort
- Short switching times
- Integrated solenoid valve (on/off)
- VAD-M-I: additional integrated solenoid valve for ejector pulse
- Reliable setting down of workpieces

At a glance

- · Compact and sturdy design
- Components with numerous individual functions form a single unit
- Extremely short switching times thanks to integrated solenoid valves
- No external or additional components required
- Easily fitted thanks to compact dimensions and therefore particularly suitable for handling tasks
- Cost-effective assembly as the solenoid valve, vacuum generator and silencer are all in a single unit
- Degree of protection IP65

- · With manual override
- With integrated silencer for reducing exhaust noise
- With integrated filter for the air to be evacuated and an inspection window which shows the degree of filter contamination
- With or without integrated vacuum switch to monitor the vacuum with PNP or NPN output
- Optionally with 2 vacuum ports

Vacuum generator VADM



The compressed air supply for these vacuum generators is controlled by the integrated solenoid valve.

When the power supply is switched on, the valve is actuated and the flow of compressed air generates a vacuum at the vacuum ports using the ejector principle. Suction stops when the power supply to the valve is switched off.

The integrated silencer reduces exhaust noise to a minimum.

With the vacuum generators VADM-...-P/N, the vacuum can be monitored using a vacuum switch.

- Integrated solenoid valve for:
 - Vacuum ON/OFF

Vacuum generator VADMI with ejector pulse



Compressed air enters the vacuum generator when a voltage signal is applied to the integrated solenoid valve, thereby creating 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 port 2 as a result of the application of pressure.

The integrated silencer reduces exhaust noise to a minimum.

With the vacuum generators VADMI-...-P/-N, the vacuum can be monitored using a vacuum switch.

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

Vacuum generator VADMI-...-LS with ejector pulse and air-saving function



This vacuum generator has an identical design 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
- 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

Air-saving function with VADMI-...-P/N and external controller

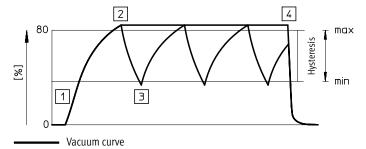
Conventional vacuum switching → A cost-effective energy saving measure

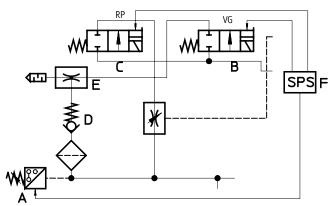
The vacuum range for holding the workpiece is set on the vacuum switch using the two potentiometers. The lower limit defines the minimum value. Provided the vacuum level is within this range, reliable workpiece transport is guaranteed.

The vacuum generator VADMI is only activated by the external controller if the level drops below the minimum value and is deactivated again once the maximum value is regained.

A check valve prevents the vacuum level from being reduced during the inactive phase of vacuum generation.

The functional sequence





- RP Solenoid valve for ejector pulse
- VG Solenoid valve for vacuum ON/ OFF
- E Vacuum generator
- D Check valve
- C Ejector pulse
- A Vacuum switch

Vacuum on

- [1] External controller F switches on the VG solenoid
 - → Valve for compressed air supply B is opened
 - → Vacuum generation E is activated

Vacuum stop

- [2] The specified maximum level is achieved:
 - → Vacuum switch A sends a signal to external controller F
 - → Controller switches VG solenoid off
 - → Vacuum generation E is interrupted
 - → Check valve D prevents the vacuum level from being reduced

Vacuum oi

- [3] Leakage causes the vacuum level to drop to the minimum value
 - → Vacuum switch A sends a signal to external controller F
 - → Controller F switches VG solenoid back on
 - → Vacuum generation E is active again
 - → Constant repetition of points 2 and 3

Cycle ended: vacuum off

- [4] Transport process is ended
 - → External controller F deactivates VG solenoid
 - → Vacuum generation E is ended
 - → External controller F switches RP solenoid
 - → Ejector pulse C is activated
 - → Workpiece is set down

Air-saving function and fault signal with VADMI-...-LS-P/N

Further development of the vacuum switch

When combined with the supplied cable kit, the vacuum generator VADMI-...-LS-P/N has an air-saving function. The vacuum range for holding the workpiece is set on the vacuum switch using the two potentiometers.

The vacuum switch generates a pulsating signal which only actuates the solenoid for vacuum ON/OFF in the vacuum generator when the vacuum has fallen below the minimum value, for example due to leakage.

At all other times, the vacuum is maintained with the help of the check valve, even when the vacuum generator is not switched on. In addition, a status signal A1 can be interrogated which is connected to +24 V during normal operation, but which is switched to 0 whenever vacuum again falls below the critical value by 150 mbar due to a malfunction. This is the case, for example, if the workpiece has dropped off from the suction gripper and it is therefore no longer possible to generate the selected vacuum range.

The three control and supply cable harnesses are combined in one branch. Just one cable, containing one core for the signal and three cores for the power supply, is routed from the branch to the PLC.

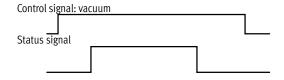
Given the decentralised control of the switching function, external actuation of the vacuum switching (air-saving function) would be superfluous. As a result, there is significantly less wiring.

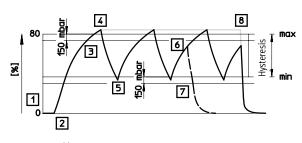


Note

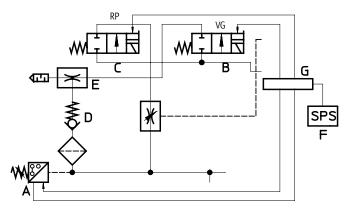
The vacuum switch may only be operated with the included cable kit.

The functional sequence





----- Vacuum curve
----- Curve after fault



- RP Solenoid valve for ejector pulse
- VG Solenoid valve for vacuum ON/ OFF
- E Vacuum generator
- D Check valve
- C Eiector pulse
- G Branch
- Vacuum switch

Start signal

- [1] External controller F activates the vacuum switch
 - → Vacuum switch A checks the vacuum status
 - → No vacuum present

Vacuum on

- [2] Vacuum switch activates the VG solenoid
 - → Valve for compressed air supply B is opened
 - → Vacuum generation E is activated
- [3] Vacuum level exceeds 150 mbar below the maximum level
 - → Vacuum switch sends a release signal to the external controller F
 - → Transport process can start

Vacuum stop

- [4] The specified maximum level is achieved
 - → Vacuum switch A switches VG magnet off
 - → Compressed air supply is stopped
 - → Vacuum generation E is interrupted
 - → Check valve D prevents the vacuum level from being reduced

Vacuum on

- [5] Leakage causes the vacuum level to drop to the minimum value
 - → Vacuum switch A switches VG solenoid back on
 - → Vacuum generation E is active again

Fault: transport stop

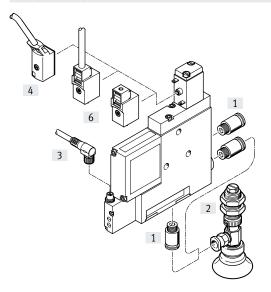
- [6] Major leakage causes an overly large drop in the vacuum level
 - → Vacuum generator E cannot compensate for the drop in level
- [7] Vacuum level falls to 150 mbar below the minimum value
 - → Vacuum switch A sends an error message to external controller F
 - → External controller F stops the transport process
 - → Vacuum generation E is ended

Cycle ended: vacuum off

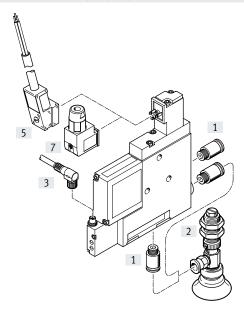
- [8] Transport process is ended
 - → External controller F deactivates VG solenoid
 - → Vacuum generation E is ended
 - → External controller F switches RP solenoid
 - → Ejector pulse C is activated
 - → Workpiece is set down

Peripherals overview

VADM/VADMI-45/70



VADM/VADMI-95/140/200/300



Mou	Mounting attachments and accessories											
		VADM/VADMI-45/70	VADM/VADMI-95/140/200/300	→ Page/Internet								
[1]	Push-in fitting QS	•	•	qs								
[2]	Suction gripper ESG	•	•	esg								
[3]	Connecting cable NEBU-M8G4/M8W4	•	•	19								
[4]	Connecting cable KMYZ-2	•	-	19								
[5]	Plug socket with cable KMEB-1/2	-	•	19								
[6]	Plug socket MSSD-ZBZC	•	-	19								
[7]	Plug socket MSSD-EB	-	•	19								
-	Suction cup holder ESH	•	•	esh								
_	Suction cup ESS	•	•	ess								
_	Illuminating seal MEB-LD	-	•	19								

Type codes

001	Series							
VADMI	Vacuum generator with ejector pulse							
VADM	Vacuum generator without 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
	None
LS	With air saving circuit
ı	1
004	Output signal vacuum sensor
	Without vacuum sensor
P	With 1 switching output PNP
N	With 1 switching output NPN

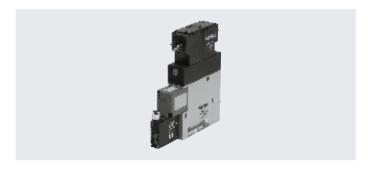
Temperature range 0 ... +60°C



Operating pressure 0.15 ... 0.8 MPa



- www.festo.com



General technical data												
Type		VADM/VADMI	VADM/VADMI									
		-45	-70	-95	-140	-200	-300					
Nominal width of Laval nozzle	[mm]	0.45	0.7	0.95	1.4	2.0	3.0					
Grid dimension	[mm]	10	15	18	22	22	22					
Grade of filtration	[µm]	≤40	≤40									
Mounting position		Any	Any									
Type of mounting		With through-hole	With through-hole									
		With female threa	With female thread									
Pneumatic connection 1 (P)		M5	M5	G1/8	G1/8	G1/4	G1/4					
Vacuum port (V)		M5	G1/8	G1/8	G1/4	G3/8	G3/8					
Pneumatic connection 3 (R)		Integrated silence	Integrated silencer									

Technical data – Design								
Туре		VADMI VADMI						
Ejector characteristic		High vacuum	ligh vacuum					
Silencer design		Closed						
ntegrated function		On/off valve, electric	On/off valve, electric					
		Filter	Filter					
		-	Flow control valve					
			Ejector pulse valve, electric					
			Check valve					
	-P/-N	Vacuum switch	Vacuum switch					
	-LS-P/-N	-	Air-saving function, electric					
			Vacuum switch					
Valve function		Closed						
Manual override		Non-detenting						

Operating and environmental cond	itions											
Туре		VADM/VADMI										
		Without vacuum switch		With vacuum switch -P,	/N							
		-45/70	-95/140/200/300	-45/70	-95/140/200/300							
Operating pressure	[MPa]	0.15 0.8	0.2 0.8	0.15 0.8	0.2 0.8							
	[bar]	1.5 8	2 8	1.5 8	28							
	[psi]	21.75 116	29 116	21.75 116	29 116							
Nominal operating pressure	[MPa]	0.6										
	[bar]	6										
	[psi]	87	87									
Max. overload pressure	[bar]	_		5 (VADMI only)	5 (VADMI only)							
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]										
Note on the operating/pilot medium		Lubricated operation n	Lubricated operation not possible									
Ambient temperature	[°C]	0 +60		0 +50	0 +50							
Temperature of medium	[°C]	0 +60										
Corrosion resistance class CRC ¹⁾		2	2									
CE marking (see declaration of confo	rmity)	_		To EU EMC Directive ²⁾	To EU EMC Directive ²⁾							
UKCA marking (see declaration of co	nformity)	-	– To UK EMC regulations ²⁾³⁾									
Certification		c UL us - Recognized (O	c UL us - Recognized (OL)									
		_		RCM								

- More information: www.festo.com/x/topic/crc
 More information: www.festo.com/catalogue/vadm → Support/Downloads.
 Only applies to VADMI.

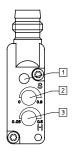
Performance data – High vacuum													
Туре	VADM						VADMI ²⁾						
		-45	-70	-95	-140	-200	-300	-45	-70	-95	-140	-200	-300
Max. vacuum	[%]	85						85					
Pressurisation time ¹⁾ at nominal operating pressure	[s]	5.9	2.2	1.18	0.69	0.29	0.26	1.9	0.59	2.04	0.19	0.15	0.2

- 1) Imme required to reduce the vacuum from nominal operating pressure to -0.05 bar. 2) With ejector pulse

Technical data – Electrical connection									
Electrical connection		Plug							
Operating voltage range	[V DC]	21.6 26.4							
Duty cycle	[%]	100							
Degree of protection		IP65							

Technical data – Vacuum switch										
Туре		VADM/VADMI		VADMI						
		-P	-N	-LS-P	-LS-N					
Mechanical system										
Electrical connection		Plug M8x1, 4-pin								
Measured variable		Relative pressure								
Measuring principle		Piezoresistive	'							
Pressure measuring range	[MPa]	0 0.1								
	[bar]	0 1								
	[psi]	014.5								
Setting options		Potentiometer								
Threshold-value setting range	[kPa]	-90 0		−90 −20						
	[bar]	-0.9 0		-0.90.2	-0.90.2					
	[psi]	-13.05 0		−13.05 −2.9						
Hysteresis setting range	[kPa]	−50 −5		-6010						
	[bar]	-0.50.05		-0.60.1						
	[psi]	−7.25 −0.725		−8.7 −1.45						
Display type		LED								
Switching status indication		Optical								
Electrical system										
Operating voltage range	[V DC]	15 30								
Switching output		PNP	NPN	PNP NPN						
Switching element function		N/O								
Switching function		Threshold-comparator								
Reverse polarity protection		For all electrical co	For all electrical connections							

Vacuum switch control panel



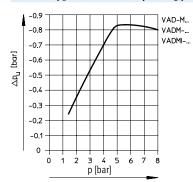
- [1] Switching status indication, yellow LED
- [2] Potentiometer for setting threshold values
- [3] Potentiometer for setting hystere-

Datasheet

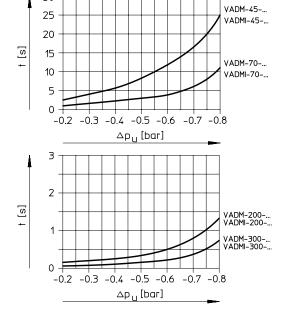
Weight [g]													
Type VADM V								VADMI					
	-45	-70	-95	-140	-200	-300	-45	-70	-95	-140	-200	-300	
Without vacuum switch	60	140	210	290	320	340	85	170	240	320	350	370	
With vacuum switch -P/-N	65	145	220	300	330	350	90	180	250	330	360	380	

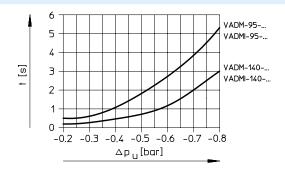
Materials	
Housing	Wrought aluminium alloy
Filter casing	PC PC
Silencer	PE, POM
Piston	POM
Jet nozzle	Nickel-plated brass
Female nozzle	Nickel-plated brass
Filter	PA PA
Seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Vacuum Δp_u as a function of operating pressure p

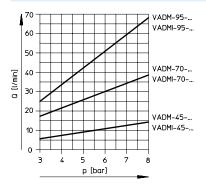


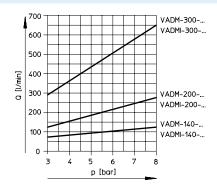
Evacuation time t [s] for 1 litre volume at 6 bar operating pressure



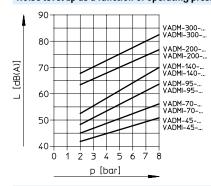


Air consumption Q as a function of operating pressure p

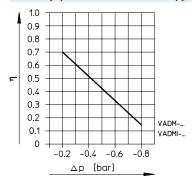




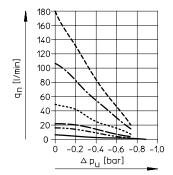
Noise level Lp as a function of operating pressure p (without suction flow)

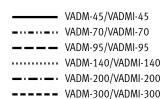


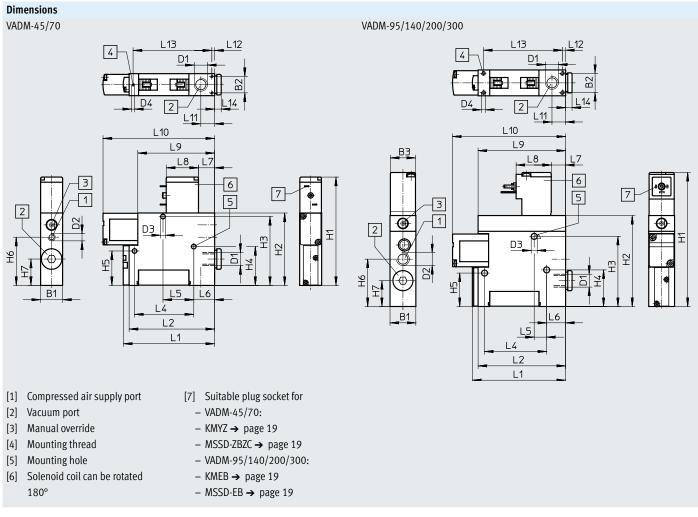
Efficiency η as a function of vacuum Δp_u at $P_{nom}\,6$ bar



Suction volume flow qn as a function of vacuum Δp_u at $P_{nom}\, 6$ bar



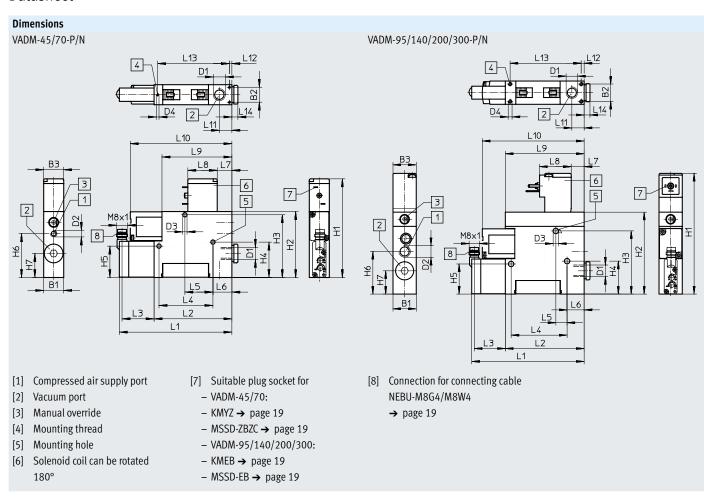




Туре	B1	B2	В3	D1	D2	D3 Ø	D4	H1	H2	Н3	H4	Н5	Н6	H7
VADM-45	10	6.2	-	M5	M5	3.2	M2	64.4	44.4	40.8	23.8	23.8	29.6	18
VADM-70	15	11.2	-	G1/8	M5	3.2	M2	73.9	49.4	47	26.5	23.5	32.9	18
VADM-95	18	13.4	18	G1/8	G1/8	4.2	M2.5	93.4	63.4	48.9	25.5	23.3	33	18
VADM-140	22	16.6	18	G1/4	G1/8	5.2	М3	107.4	77.4	61.4	41.4	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	М3	113.4	83.4	67.7	41.4	41.4	40	19

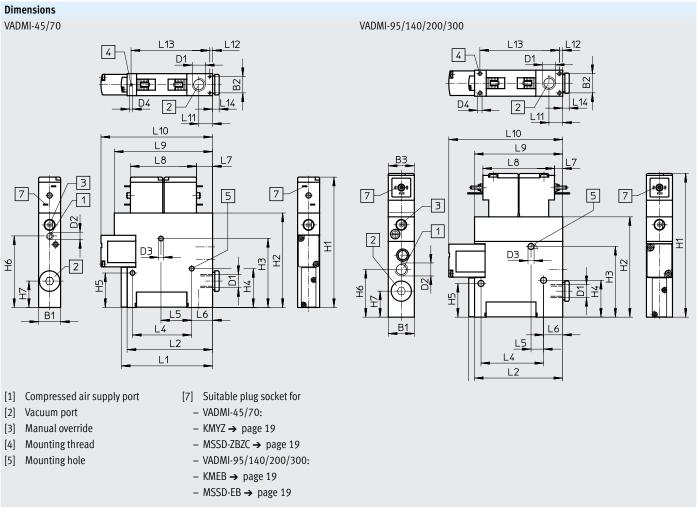
Туре	L1	L2	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
VADM-45	45	41	33.6	25	3.6	11	16	41	56	7.9	1.9	36.3	4
VADM-70	62.3	58.3	40.4	21	14.2	11	22	52.4	76.1	9.4	1.9	53.7	4.5
VADM-95	65	61	43.3	8.7	13.2	9.7	24.5	61	78.8	9.5	2.3	55	4.5
VADM-140	88	84	26	12.5	28.5	9.7	24.5	61	96.8	13.8	2.3	79.4	5
VADM-200	88	84	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

 $^{| \}label{eq:lambda} |$ Note: This product conforms to ISO 1179-1 and ISO 228-1.



Туре	B1	B2	В3	D1	D2	D3 Ø	D4	H1	H2	Н3	H4	H5	Н6	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
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	М3	113.4	83.4	67.7	41.4	41.4	40	19
Туре	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
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

Note: This product conforms to ISO 1179-1 and ISO 228-1.

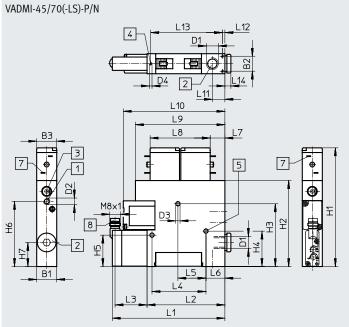


Туре	B1	B2	В3	D1	D2	D3 Ø	D4	H1	H2	Н3	H4	H5	Н6	H7
VADMI-45	10	6.2	-	M5	M5	3.2	M2	78.2	58.2	40.8	23.8	23.8	43.4	18
VADMI-70	15	11.2	-	G1/8	M5	3.2	M2	88.9	64.4	47	26.5	23.5	48.8	18
VADMI-95	18	13.4	18	G1/8	G1/8	4.2	M2.5	99.4	69.4	48.9	25.5	23.3	33	18
VADMI-140	22	16.6	18	G1/4	G1/8	5.2	М3	113.4	83.4	61.4	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	М3	119.4	89.4	67.7	41.4	41.4	40	19

Туре	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
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

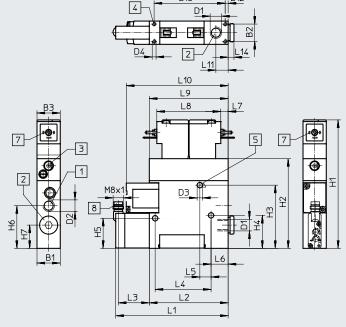
 $^{| \}label{eq:lambda} |$ Note: This product conforms to ISO 1179-1 and ISO 228-1.





- [7] Suitable plug socket for
 - VADMI-45/70:
- KMYZ → page 19
- MSSD-ZBZC → page 19
- VADMI-95/140/200/300:
- KMEB →
- MSSD-EB → page 19





[8] Connection for connecting cable NEBU-M8G4/M8W4

→ page 19

Туре	B1	B2	В3	D1	D2	D3	D4	H1	H2	H3	H4	H5	H6	H7
						Ø								
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
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	М3	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	М3	119.4	89.4	67.7	41.4	41.4	40	19
	· ·		:										:	:

Туре	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
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

 $[\]mbox{\ensuremath{\psi}}$ Note: This product conforms to ISO 1179-1 and ISO 228-1.

[1] Compressed air supply port

[2] Vacuum port

[5]

[3] Manual override

[4] Mounting thread

Mounting hole

Datasheet

Ordering data												
Size	Solenoid coils	Without va	cuum switch	With vacuum switch								
				PNP output		NPN output						
		Part no.	Туре	Part no.	Туре	Part no.	Туре					
Without eject	or pulse											
45	MZB	162500	VADM-45	162512	VADM-45-P	162513	VADM-45-N					
70	MYB	162501	VADM-70	162514	VADM-70-P	162515	VADM-70-N					
95	MEB	162502	VADM-95	162516	VADM-95-P	162517	VADM-95-N					
140	MEB	162503	VADM-140	162518	VADM-140-P	162519	VADM-140-N					
200	MEB	162504	VADM-200	162520	VADM-200-P	162521	VADM-200-N					
300	MEB	162505	VADM-300	162522	VADM-300-P	162523	VADM-300-N					
With ejector p	ulse											
45	MZB	162506	VADMI-45	162524	VADMI-45-P	162525	VADMI-45-N					
70	MYB	162507	VADMI-70	162526	VADMI-70-P	162527	VADMI-70-N					
95	MEB	162508	VADMI-95	162528	VADMI-95-P	162529	VADMI-95-N					
140	MEB	162509	VADMI-140	162530	VADMI-140-P	162531	VADMI-140-N					
200	MEB	162510	VADMI-200	162532	VADMI-200-P	162533	VADMI-200-N					
300	MEB	162511	VADMI-300	162534	VADMI-300-P	162535	VADMI-300-N					
With ejector p	ulse and air-saving function											
45	MZB	-		171053	VADMI-45-LS-P	171054	VADMI-45-LS-N					
70	MYB	-		171055	VADMI-70-LS-P	171056	VADMI-70-LS-N					
95	MEB	-		171057	VADMI-95-LS-P	171058	VADMI-95-LS-N					
140	MEB	-		171059	VADMI-140-LS-P	171060	VADMI-140-LS-N					
200	MEB	-		171061	VADMI-200-LS-P	171062	VADMI-200-LS-N					
300	MEB	_		171063	VADMI-300-LS-P	171064	VADMI-300-LS-N					

- 🏺 - Note

For vacuum generators VADMI-...-LS-P/N, the cable kit with plug sockets for solenoid coils and vacuum switches is included in the scope of delivery.

These vacuum generators may only be operated with the cable supplied.

Accessories

Ordering data – Plu	g socket MSSD						Datasheets → Internet: mssd
	Description	Electrical connection		Cable connection		Part no.	Туре
	For VADM/ VADMI-45/70	Angled socket		Insulation displacem	ent connector	185521	MSSD-ZBZC
	For VADM/	Angled socket, 3-pin, ty	pe C, to EN 175301-803	Screw terminal PG7		151687	MSSD-EB
	VADMI-95/			Screw terminal M12		539712	MSSD-EB-M12
	140/200/300	Angled socket, 4-pin, ty	pe C	Insulation displacem	ent connector M14	192745	MSSD-EB-S-M14
Ordering data – Cor	nnecting cable KMYZ-2	2 Electrical connection		Switching status indication	Cable length	Part no.	Datasheets → Internet: kmyz
	F==\/ADM/	Appled applied 2 min Open apple and				2/007	VANV7 2 27 2 5 1 5 D
	For VADM/ VADMI-45/70	Angled socket, 2-pin, square design	Open cable end	LED	2.5	34997 34998	KMYZ-2-24-2.5-LED KMYZ-2-24-5-LED
	V/IDIVII 45/70	Square design		LED	10	193443	KMYZ-2-24-3-LED KMYZ-2-24-10-LED
	-		Straight plug, 3-pin,	LED	0.5	177676	KMYZ-2-24-10-LLD
			M8x1		2.5	177678	KMYZ-2-24-M8-2.5-LED
Ordering data – Plu	g socket with cable K	MEB Electrical connection		Switching status indication	Cable length	Part no.	Datasheets → Internet: kmeb
	For VADM/	Angled socket, 3-pin,	Open cable end	LED	2.5	151688	KMEB-1-24-2.5-LED
	VADMI-95/	type C,			5	151689	KMEB-1-24-5-LED
•	140/200/300	to EN 175301-803			10	193457	KMEB-1-24-10-LED
1		Angled socket, 4-pin,	Open cable end	LED	2.5	174844	KMEB-2-24-2.5-LED
		type C, to EN 175301-803			5	174845	KMEB-2-24-5-LED
		Angled socket, 5-pin, type C, to EN 175301-803	Straight plug, 5-pin, M12x1	LED	0.5	177677	KMEB-2-24-M12-0.5-LED
Ordering data – Illu	minating seal MEB-LI)				1	Datasheets → Internet: meb
	Description					Part no.	Туре
	For plug socket with	cable KMEB and plug soc	ket MSSD-EB			151717	MEB-LD-12-24DC
Ordering data – Cor	nnecting cable NEBU-	М8					Datasheets → Internet: nebu
	Electrical connection				Cable length [m]	Part no.	Туре
	Straight socket, M82	(1, 4-pin	Open cable end		2.5	541342	NEBU-M8G4-K-2.5-LE4
1					5	541343	NEBU-M8G4-K-5-LE4
				9	8003130	NEBU-M8G4-K-9-LE4	
	Angled socket, M8x	Angled socket, M8x1, 4-pin		Open cable end			NEBU-M8W4-K-2.5-LE4
				5		541345	NEBU-M8W4-K-5-LE4
					10	575833	NEBU-M8W4-K-10-LE4