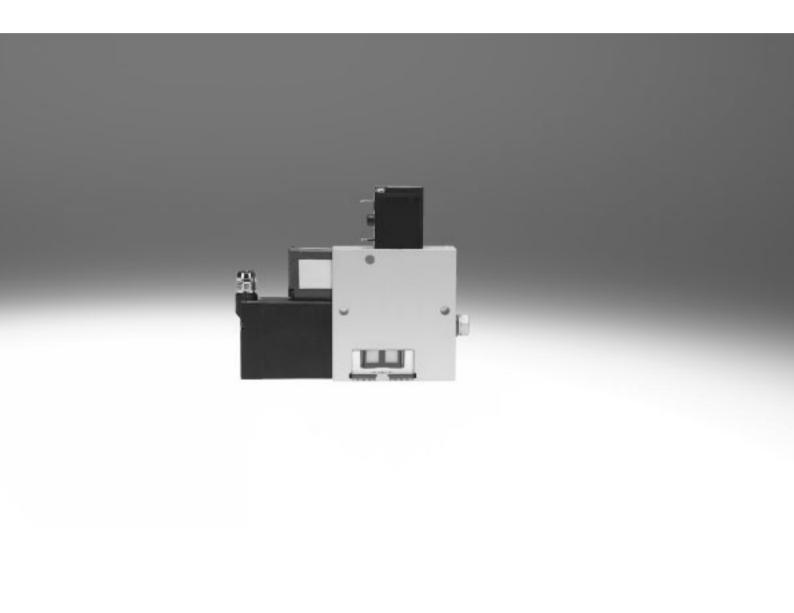
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Key features

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Product overview

Vacuum generators



All Festo vacuum generators 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 families make it possible to select vacuum generators tailored to suit the specific requirements of each application.

Standard and inline ejectors

\/NI

Technical data → 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 with straight or T-shaped housing
- Minimal space required
- Cost-effective
- No wearing parts
- Extremely fast evacuation time
- Vacuum switch (optional)
- Optional additional functions:
 - Integrated ejector pulse
 - Electrical control for vacuum ON/OFF
- Combination of ejector pulse and actuation

VAD/VAK

Technical data → 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,
 VAD-...: Connection for external volume
- Maintenance-free
- VAK: Reliable setting down of workpieces



Key features

Compact ejectors

OVEM Technical data → Internet: ovem



- Nominal width 0.45 ... 2 mm
- Max. vacuum 93%
- Temperature range 0 ... +50 °C
- Compact design
- Minimal installation work required
- Short switching times
- Integrated solenoid valves for vacuum ON/OFF and ejector pulse
- Filter with display
- Vacuum sensor with LCD display for continuous monitoring of the entire vacuum system
- Optional air saving function
- Reliable setting down of workpieces
- Blocking of 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 work required
- Short switching times
- Integrated solenoid valve (on/off)
- VADMI: additional integrated solenoid valve for ejector pulse
- Filter with display
- Optional air saving function
- Vacuum switch (optional)
- Reliable setting down of workpieces

VAD-M

Technical data → Internet: vad-m



- Nominal width 0.7 ... 2 mm
- Max. vacuum 85%
- Temperature range 0 ... +40 °C
- Compact design
- Minimal installation work required
- Short switching times
- Integrated solenoid valve (on/off)
- VAD-M-I: additional integrated solenoid valve for ejector pulse
- Reliable setting down of workpieces

Key features

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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
- With 2 vacuum ports, optional

Vacuum generators VADM

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

When the electrical power supply is switched on, the valve is actuated and the flow of compressed air generates a vacuum at the vacuum ports by the ejector principle.

Suction stops when the supply power 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 following the application of a voltage signal 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 by 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 as 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



Key features



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

The conventional vacuum switch → 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.

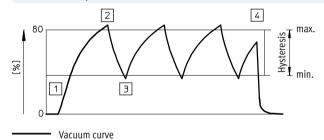
Provided the vacuum level is within this range, reliable workpiece transport is guaranteed.

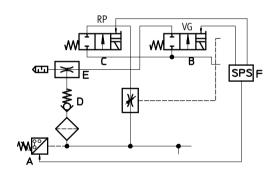
The vacuum generator VADMI is only activated by the external controller if the level drops below the minimum

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
- Solenoid valve for vacuum ON/OFF
- Ε Vacuum generator
- D Check valve
- C Ejector pulse
- 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 the external controller F
 - → Controller switches the VG solenoid off
 - → Vacuum generation E interrupted
 - → Check valve D prevents the vacuum level from being reduced

Vacuum on

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

Cycle ended: vacuum off

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

Key features



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

The further development of the vacuum switch

In conjunction 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 pressure 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 pressure 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 signal wire and three power supply wires is routed from the branch to the

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.

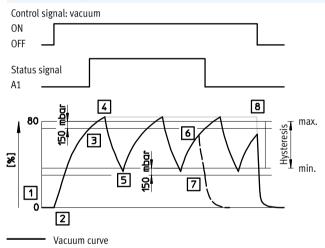


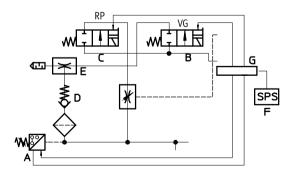


Note

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

The functional sequence





RP Solenoid valve for ejector pulse VG Solenoid valve for vacuum ON/OFF

Curve after fault

- E Vacuum generator
- D Check valve
- C Ejector pulse
- G Branch
- A 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 falls more than 150 mbar below the maximum level
 - → Vacuum switch sends an enable signal to the external controller F
 - → Transport process can start

Vacuum stop

- 4 The specified maximum level is achieved
 - → Vacuum switch A switches the VG solenoid off
 - → Compressed air supply stopped
 - → Vacuum generation E 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 the VG solenoid back on
 - → Vacuum generation E is active again

Fault: transport stop

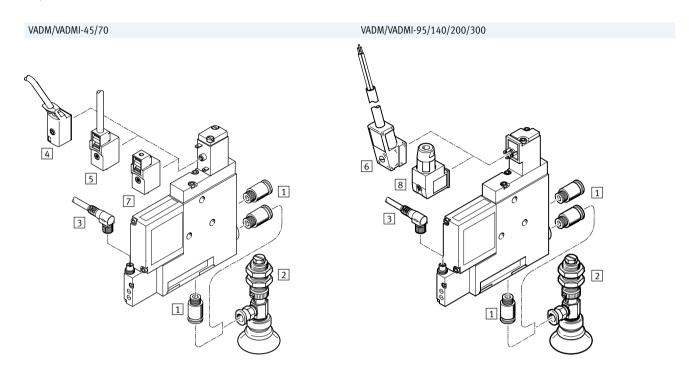
- 6 Major leakage causes an overly large drop in the vacuum level
 - → Vacuum generator E cannot compensate for the drop in level
- 7 Vacuum level falls to 150 mbar below the minimum value
 - → Vacuum switch A sends an error message to the external controller F
 - → External controller F interrupts the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

Cycle ended: vacuum off

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

Vacuum generators VADM/VADMI Peripherals overview

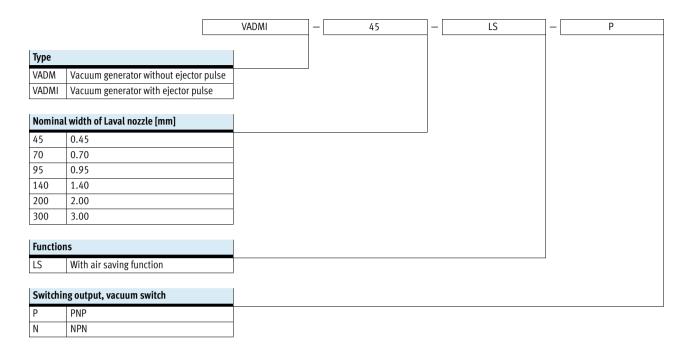




Mou	inting components and accessories			
		VADM/VADMI-45/70	VADM/VADMI-95/140/200/300	→ Page/Internet
1	Push-in fitting	•	•	qs
	QS	-	_	
2	Suction gripper	•	•	esg
	ESG	_	_	
3	Connecting cable	•	•	19
	NEBU-M8G4/M8W4	-	_	
4	Connecting cable	•	_	19
	KMYZ-2	_		
5	Plug socket with cable	•	_	19
	KMYZ-4	_	_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

Vacuum generators VADM/VADMI Type codes

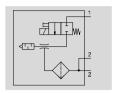




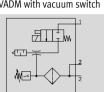


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VADM without vacuum switch



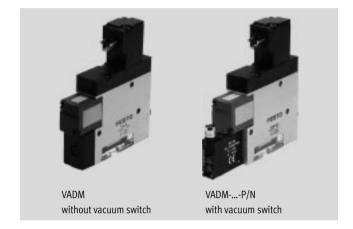
VADM with vacuum switch



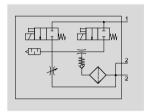


Operating pressure 1.5 ... 8 bar

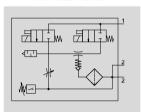


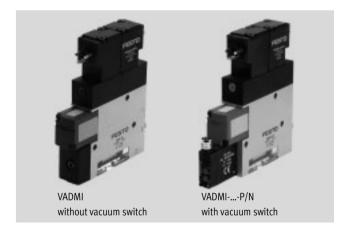


VADMI without vacuum switch



VADMI with vacuum switch





General technical data												
Туре		VADM/VADA	/ADM/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					<u>.</u>					
Mounting position		Any										
Type of mounting		With through-hole										
		Via female t	hread									
Pneumatic connection 1 (P)		M5	M5	G1/8	G1/8	G1/4	G1/4					
Vacuum port (V)	M5	G ¹ /8	G1/8	G1/4	G ³ /8	G3/8						
Pneumatic connection 3 (R)	Integrated silencer											

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



Operating and environmental con	nditions										
Туре		VADM/VADMI									
		Without vacuum s	switch	With vacuum switch -P/N							
		-45/70	-95/140/200/300	-45/70	-95/140/200/300						
Operating pressure	[bar]	1.5 8	2 8	1.5 8	2 8						
Nominal operating pressure	[bar]	6	6								
Max. overload pressure	[bar]	-		5 (VADMI only)	5 (VADMI only)						
Operating medium		Compressed air to	Compressed air to ISO 8573-1:2010 [7:4:4]								
Note on operating/pilot medium		Lubricated operation not possible									
Ambient temperature	[°C]	0 +60		0 +50							
Temperature of medium	[°C]	0 +60									
Corrosion resistance class CRC ¹⁾		2									
CE marking (see declaration of co	nformity)	– To EU EMC Directive ²⁾									
Certification		c UL us - Recognized (OL)									
		- RCM compliance mark									

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

For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp
Certificates.

If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Performance data – High vacuum													
Туре	VADM							VADMI					
	-45	-70	-95	-140	-200	-300	-45	-70	-95	-140	-200	-300	
Max. vacuum	[%]	85						85					
Air supply time ¹⁾ for 1 l volume,	[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
at $p_1 = 6$ bar													

¹⁾ Time required to reduce vacuum to -0.05 bar.

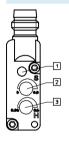
Technical data – Electrical connection										
Electrical connection		Plug								
Operating voltage range [V DC]		21.6 26.4								
Duty cycle	[%]	100								
Degree of protection		IP65								





Technical data – Vacuum switche	S										
Туре		VADM/VADMI		VAI	DMI						
		-P	-N	-LS	j-P	-LS-N					
Mechanical											
Electrical connection		Plug M8x1, 4-pin Only via supplied cable kit									
Measured variable		Relative pressure	Relative pressure								
Measuring principle		Piezoresistive	Piezoresistive								
Pressure measuring range	[bar]	-1 0									
Setting options		Potentiometer									
Threshold value setting range	[bar]	-0.9 0		-0.	.90.2						
Hysteresis setting range	[bar]	-0.50.05		-0.	.60.1						
Display type		LED									
Switching status indication		Opto-electrical									
Electrical											
Operating voltage range	[V DC]	15 30									
Switching output		PNP	NPN	PNI	P	NPN					
Switching element function		N/O contact									
Switching function		Threshold value comparator									
Reverse polarity protection		For all electrical connections									

Vacuum switch control panel



PNP output

- 1 Switching status indication, yellow LED
- 2 Potentiometer for setting threshold values
- 3 Potentiometer for setting hysteresis

Pin allocation for vacuum switch for VADM/VADMI-...-P/N



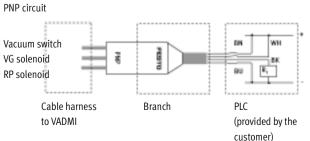
NPN output

Pin allocation Positive terminal Brown: White: N/C contact Blue: Negative terminal Black: N/O contact

BN = Brown WH = White BK = Black

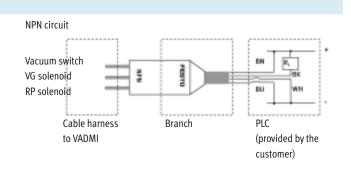
BU = Blue $R_L = Load$

Connection to PLC for VADMI-...-LS-P/N



customer) BK = Black for consumer R_L (PLC)

BU = Blue for ground



BN = Brown for vacuum ON/OFF, VG

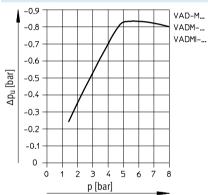
WH = White for ejector pulse, RP



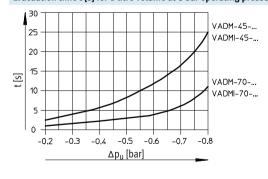
Weight [g]														
Туре	VADM	VADM							VADMI					
	-45	-70	-95	-140	-200	-300	-45	-70	-95	-140	-200	-300		
Without vacuum switch	60	140	210	290	320	340	85	170	240	320	350	370		
With vacuum switch -P/-N	65	145	220	300	330	350	90	180	250	330	360	380		

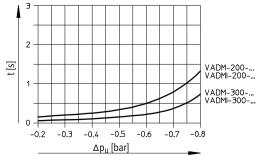
Materials	
Housing	Wrought aluminium alloy
Filter housing	PC
Silencer	PE, POM
Piston	POM
Jet nozzle	Nickel-plated brass
Collector nozzle	Nickel-plated brass
Filter	PA
Seals	NBR
Note on materials	Free of copper and PTFE

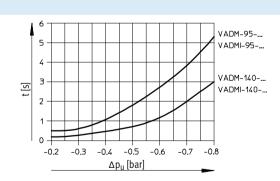
Vacuum $\Delta \boldsymbol{p}_u$ as a function of operating pressure \boldsymbol{p}



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



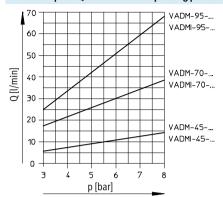


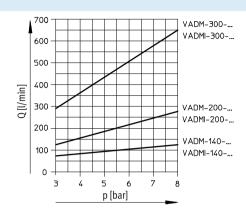


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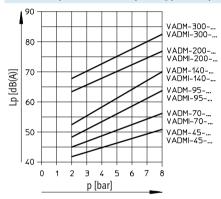
Technical data

Air consumption Q as a function of operating pressure p

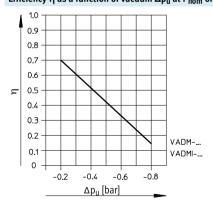




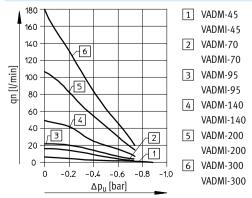
Noise level Lp as a function of operating pressure p (without suction flow)



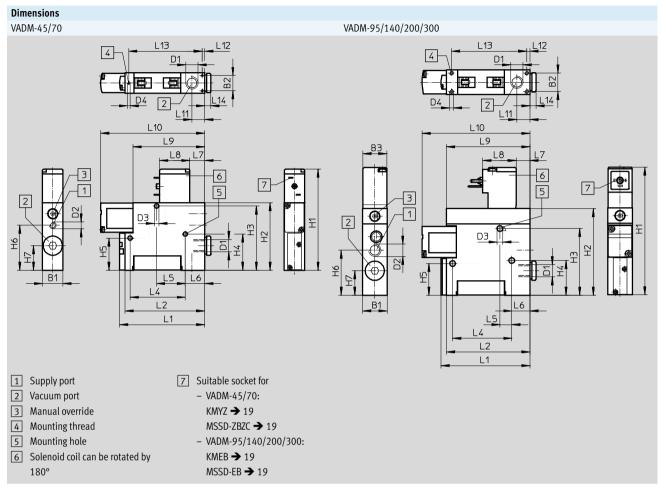
Efficiency η as a function of vacuum Δp_u at P_{nom} of 6 bar



Suction rate qn as a function of vacuum Δp_u at P_{nom} of 6 bar







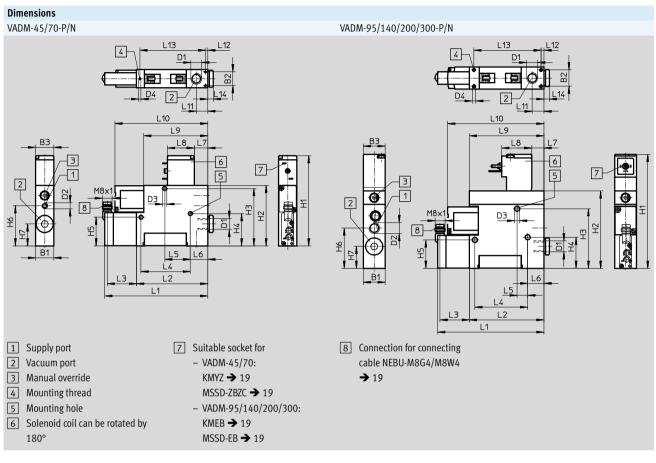
Туре	B1	B2	В3	D1	D2	D3 Ø	D4	H1	H2	Н3	H4	H5	Н6	H7
VADM-45	10	6.2	-	M5	M5	3.2	M2	64.4	44.4	40.8	23.8	23.8	29.6	18
VADM-70	15	11.2	-	G1/8	M5	3.2	M2	73.9	49.4	47	26.5	23.5	32.9	18
VADM-95	18	13.4	18	G1/8	G1/8	4.2	M2.5	93.4	63.4	48.9	25.5	23.3	33	18
VADM-140	22	16.6	18	G1/4	G1/8	5.2	M3	107.4	77.4	61.4	41.4	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	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

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





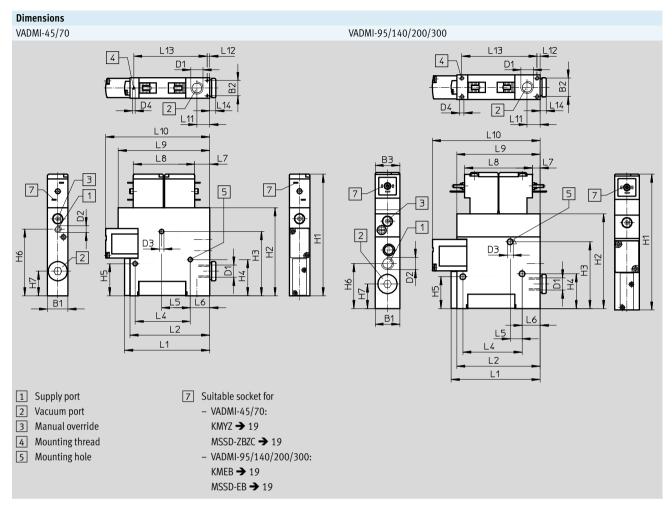


Туре	B1	B2	В3	D1	D2	D3	D4	H1	H2	Н3	H4	H5	Н6	H7
						Ø								
VADM-45-P/N	10	6.2	10	M5	M5	3.2	M2	64.4	44.4	40.8	23.8	23.8	29.6	18
VADM-70-P/N	15	11.2	15	G1/8	M5	3.2	M2	73.9	49.4	47	26.5	23.5	32.9	18
VADM-95-P/N	18	13.4	18	G1/8	G1/8	4.2	M2.5	93.4	63.4	48.9	25.5	23.3	33	18
VADM-140-P/N	22	16.6	18	G1/4	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	M3	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 to ISO 228-1





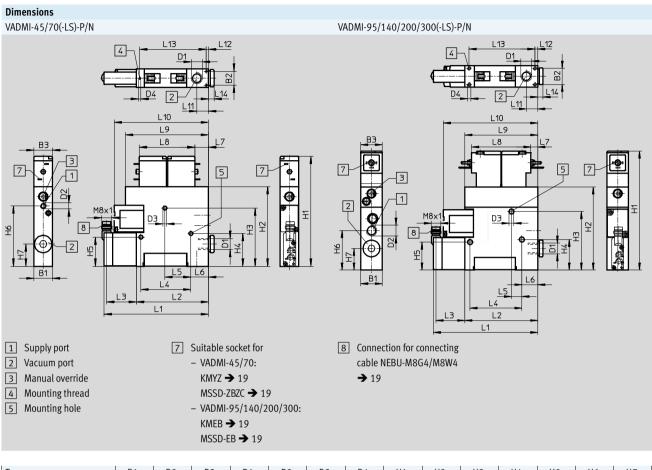
Туре	B1	B2	В3	D1	D2	D3 Ø	D4	H1	H2	Н3	H4	H5	Н6	H7
VADMI-45	10	6.2	-	M5	M5	3.2	M2	78.2	58.2	40.8	23.8	23.8	43.4	18
VADMI-70	15	11.2	-	G1/8	M5	3.2	M2	88.9	64.4	47	26.5	23.5	48.8	18
VADMI-95	18	13.4	18	G1/8	G1/8	4.2	M2.5	99.4	69.4	48.9	25.5	23.3	33	18
VADMI-140	22	16.6	18	G1/4	G1/8	5.2	M3	113.4	83.4	61.4	41.4	41.4	36	17.5
VADMI-200	22	16.6	18	G3/8	G1/4	5.2	М3	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

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

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







Туре	B1	B2	В3	D1	D2	D3	D4	H1	H2	Н3	H4	H5	Н6	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	М3	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

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

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



Ordering da	ta						
Size	Solenoid coils	Without vacuum switch		With vacu	um switch		
				PNP outpu	ıt	NPN out	put
		Part No. Type		Part No.	Туре	Part No.	Туре
Without ejec	tor 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	•						
45	MZB	162506 VADMI-45		162524	VADMI-45-P	162525	
70	MYB	162507 VADMI-70		162526	VADMI-70-P	162527	
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
	pulse and air saving funct	ion					
45	MZB	-		171053	VADMI-45-LS-P	171054	
70	MYB	-		171055	VADMI-70-LS-P	171056	
95	MEB	-		171057	VADMI-95-LS-P	171058	VADMI-95-LS-N
140	MEB	_	ļ	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.

Vacuum generators VADM/VADMI Accessories



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Ordering data -	Plug socket MSSD				Technical data → Internet: mssd
	Description	Electrical connection	Cable connection	Part No.	Туре
	For VADM/	Angled socket	Insulation displacement	185521	MSSD-ZBZC
	VADMI-45/70		connector		
	For VADM/	Angled socket, 3-pin, type C,	Screw terminal PG7	151687	MSSD-EB
	VADMI-95/	to EN 175301-803	Screw terminal M12	539712	MSSD-EB-M12
	140/200/300	Angled socket, 4-pin, type C	Insulation displacement con-	192745	MSSD-EB-S-M14
			nector M14		

Ordering data – C	Connecting cable KA	NYZ-2/plug socket with	h cable KMYZ-4				Technical data → Internet: kmyz
	Description			Switching status indication	Cable length [m]	Part No.	Туре
	For VADM/	Angled socket,	Open cable end	LED	2.5	34997	KMYZ-2-24-2,5-LED
	VADMI-45/70	2-pin, square			5	34998	KMYZ-2-24-5-LED
		design		LED	10	193443	KMYZ-2-24-10-LED
			Straight plug, 3-pin, M8x1	LED	0.5	177676	KMYZ-2-24-M8-0,5-LED
			5 pm, mox1		2.5	177678	KMYZ-2-24-M8-2,5-LED
		Angled socket, square design MSZB	Open cable end	_	0.5	185519	KMYZ-4-24-0,5
					2.5	185520	KMYZ-4-24-2,5

Ordering data - P	Ordering data – Plug socket with cable KMEB										
	Description	Electrical connection		Switching status indication	Cable length [m]	Part No.	Туре				
	For VADM/ VADMI-95/	Angled socket, 3-pin, type C, to	Open cable end	LED	2.5	151688	KMEB-1-24-2,5-LED				
	140/200/300	EN 175301-803			5	151689	KMEB-1-24-5-LED				
*					10	193457	KMEB-1-24-10-LED				
		Angled socket, 4-pin, type C, to	Open cable end	LED	2.5	174844	KMEB-2-24-2,5-LED				
		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 – Ill	uminating seal MEB-LD		Technical data → Internet: meb
	Description	Part No.	Туре
	For plug socket with cable KMEB and plug socket MSSD-EB	151717	MEB-LD-12-24DC

Ordering data – (Connecting cable NEBU-M8				Technical data → Internet: nebu
	Electrical connection		Cable length [m]	Part No.	Туре
	Straight socket, M8x1, 4-pin	Open cable end	2.5	541342	NEBU-M8G4-K-2.5-LE4
STATE OF THE PARTY			5	541343	NEBU-M8G4-K-5-LE4
			9	8003130	NEBU-M8G4-K-9-LE4
	Angled socket, M8x1, 4-pin,	Open cable end	2.5	541344	NEBU-M8W4-K-2.5-LE4
STATE OF THE PARTY			5	541345	NEBU-M8W4-K-5-LE4
			10	575833	NEBU-M8W4-K-10-LE4