

Vacuum generators OVEM

FESTO



Vacuum generators OVEM

Key features

At a glance

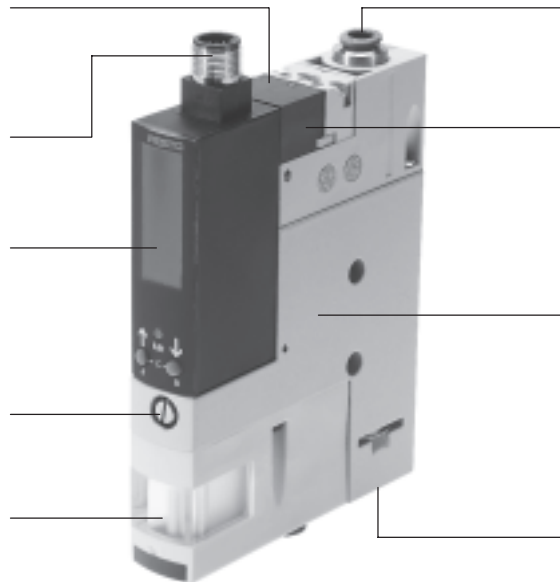
Accelerated vacuum reduction for placing the workpiece safely, through the use of an integrated solenoid valve to control the ejector pulse

Central electrical connection with M12 plug

Monitoring and visualisation of the vacuum by means of a vacuum sensor with LCD display (bar)

Adjustment of the ejector impulse via a flow control screw

An integrated filter prevents contamination of the vacuum generator



Quick and secure installation thanks to a QS fitting

Fast vacuum build-up through integrated solenoid valve for controlling the compressed air supply

Pressure drop is prevented by an integrated non-return valve

Maintenance-free operation and reduced noise level through integrated, open silencer

The innovative vacuum generator

Wide range of configuration options

The modular vacuum generator series OVEM offers a wide range of individual selectable functions, making it possible to find a solution for the most varied of applications.

- 3 nominal sizes
0.45 ... 0.95 mm
- Generator characteristics in two versions: high vacuum and high suction rate
- Integrated solenoid valve for controlling the ejector pulse

- Integrated solenoid valve for controlling the compressed air using two different switching functions
 - NC – normally closed
 - NO – normally open
- Electrical switching output of the vacuum sensor can be selected
- Alternatively selectable vacuum display (inchHg)
- Different pneumatic connection options (QS fitting or female thread)

Economical

- Short switching times thanks to integrated solenoid valves
 - Vacuum ON/OFF
 - Ejector pulse
- Quick, precise and safe placement of the workpiece via the ejector pulse
- Cost saving through integrated air saving function
- Cost saving through preventive maintenance/service thanks to maintenance indicator
- High-performance supply to several vacuum generators via a common supply manifold (➔ Page 14)

User-friendly

- Simple installation with M12 plug and QS fittings
- Simple mounting via screws
- All control elements on one side
- Vacuum is displayed numerically and as a bar chart on the LCD display
- Important parameters and diagnostic information are displayed on the LCD display
- Quiet operation due to integrated silencers

Reliable

- Constant monitoring of the entire vacuum system via a vacuum sensor with LCD display to reduce downtimes (condition monitoring)
- Prevention of pressure loss by means of an integrated air saving function in conjunction with an integrated non-return valve

Space-saving

- All functions are compactly integrated in one unit.
- No protruding elements such as valves or vacuum sensors
 - Space-optimised installation is possible as all the control elements can be accessed from one side

Easy to maintain

- Integrated filter with inspection window for maintenance display
- Reduced contamination of the vacuum generator thanks to an open silencer

Variable mounting options

- Direct mounting or with mounting bracket
- Simple mounting on H-rail with accessories
- Forming a block of several vacuum generators on a common supply manifold (➔ Page 14)

Vacuum generators OVEM

Key features

Operational principle of OVEM

Vacuum ON/OFF

The compressed air supply is controlled by an integrated solenoid valve. The solenoid valve can be supplied in two different switching functions NC/NO.

- NC – normally closed:
The vacuum is generated when the vacuum generator is pressurised with compressed air and the solenoid valve has been switched.
- NO – normally open:
The vacuum is generated when the vacuum generator is pressurised with compressed air and the solenoid valve is in the normal position.

Vacuum sensor

The set reference value for the generated vacuum is monitored by an integrated vacuum sensor. If the reference value is reached or if it is not reached due to malfunctions (e.g. leakages, dropped workpiece), the vacuum sensor emits an electrical signal. Vacuum monitoring is the basis for the vacuum generator's air saving function.

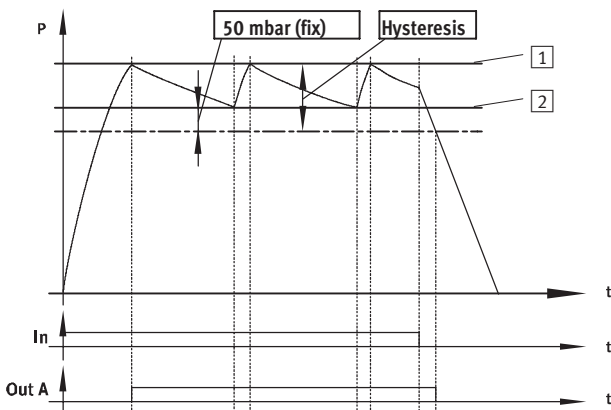
Switching outputs/Switching input

The vacuum generator can be connected to higher-order systems by means of two digital switching outputs or one digital switching output and one analogue input, and by means of one digital switching input. The switching outputs can be configured as normally open or normally closed contacts. The switching function of the outputs can be stipulated as a threshold or window comparator. In the case of vacuum generators with two switching outputs, the outputs can be configured independently of one another. This makes it possible to use one generator to perform several tasks in parallel and thus to reduce production time, e.g. for quality sorting of parts.

Ejector pulse

With a second integrated solenoid valve, an ejector pulse is activated and generated after the vacuum is switched off to release the workpiece safely from the suction cup and to reduce the vacuum quickly.

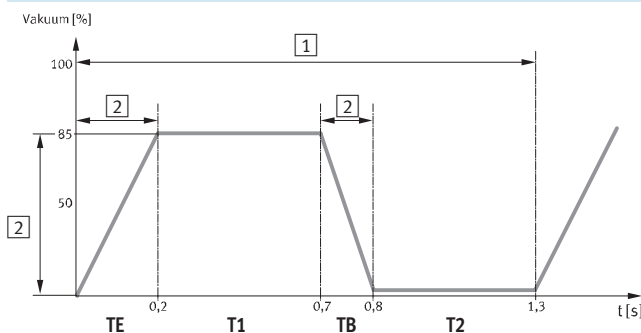
Air saving function LS (-CE, -OE)



If the desired threshold [1] is reached for the vacuum, vacuum generation is automatically switched off. A non-return valve prevents the reduction of the vacuum. Nonetheless, leakages (due to e.g. rough workpiece surfaces) will

slowly reduce the vacuum. If the pressure drops below the threshold value [2] vacuum generation is switched on automatically. Vacuum is generated until the set threshold value [1] is reached again.

Condition monitoring and diagnosis



- [1] Cycle time
- [2] Monitoring
- TE Evacuation time
- T1 Transport time
- TB Air supply time
- T2 Return time

The most important operating parameters:

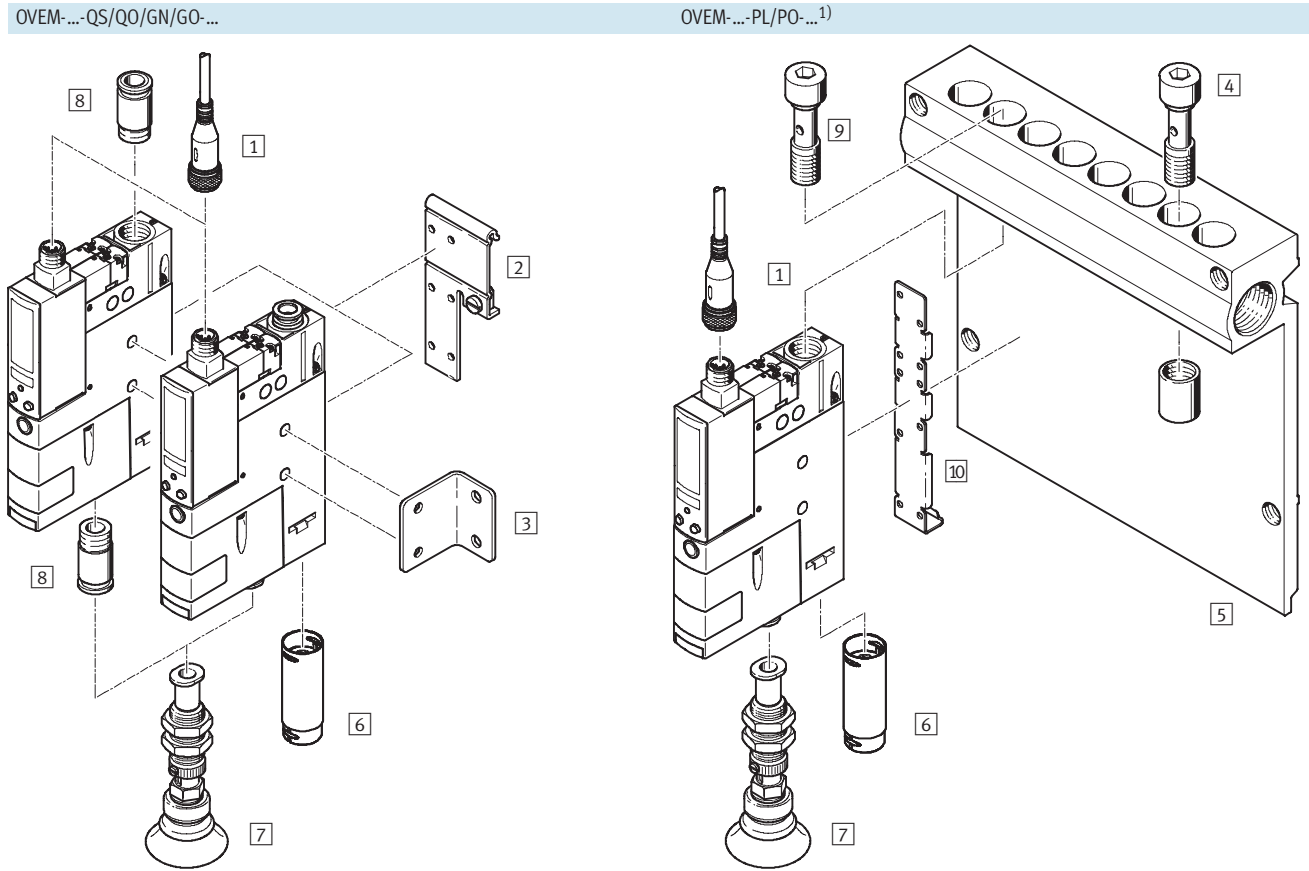
- vacuum
 - evacuation time
 - air supply time
- are constantly measured in the vacuum generator and compared to the individually set reference values (condition monitoring). Any deviations from the reference values are determined by the vacuum generator and

displayed (diagnostics). In addition, an electrical signal is transmitted to the master controller. This makes it possible to take preventive action:

- performing timely maintenance in order e.g. to prevent machine failure or downtimes
- and to guarantee process reliability (adherence to the cycle time).

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Peripherals overview



1) Hollow bolt [9] and mounting bracket [10] are included in the scope of delivery of the OVEM-...-PL/PO-....

Mounting attachments and accessories							
	OVEM-...-QS/QO/GN/GO-...				OVEM-...-PL/PO-...		→ Page/Internet
	QS	QO	GN	GO	PL	PO	
[1] Connecting cable NEBU-M12G5		■				■	nebu
[2] H-rail mounting OABM-H		■				-	15
[3] Mounting bracket HRM-1		■				-	hrm-1
[4] Blanking plug OASC-G1-P			-			■	15
[5] Common supply manifold OABM-P...			-			■	14
[6] Silencer extension UOMS-1/4	-	■	-	■	-	■	uoms
[7] Suction gripper ESG			■			■	esg
[8] Push-in fitting QS	-		■			-	quick star
- Suction cup holder ESH			■			■	esh
- Suction cup ESS			■			■	ess

Vacuum generators OVEM

Type codes

		OVEM	-	10	-	H	-	B	-	QO	-	CE	-	N	-	2P	-		
Type																			
OVEM	Vacuum generator																		
Nominal size of Laval nozzle [mm]																			
05	0.45																		
07	0.7																		
10	0.95																		
Ejector characteristic																			
H	High vacuum																		
L	High suction rate																		
Housing width																			
B	Grid dimension 20 mm																		
Pneumatic connections																			
QS	P-V-R via QS fitting																		
QO	P-V via QS fitting, R with open silencer																		
GN	P-V-R via female thread																		
GO	P-V via female thread, R with open silencer																		
PL	Common supply manifold prepared, V-R with QS fitting																		
PO	Common supply manifold prepared, V with QS fitting, R with open silencer																		
Normal position of the vacuum generator																			
ON	NO, normally open (vacuum generation)																		
OE	NO, normally open with ejector pulse																		
CN	NC, normally closed (vacuum generation)																		
CE	NC, normally closed with ejector pulse																		
Electrical connection																			
N	M12 plug (5-pin)																		
Vacuum sensor, electrical switching output																			
2P	2 switching outputs PNP																		
2N	2 switching outputs NPN																		
PU	1 switching output PNP, 1 analogue output 0 ... 10 V																		
PI	1 switching output PNP, 1 analogue output 4 ... 20 mA																		
NU	1 switching output NPN, 1 analogue output 0 ... 10 V																		
NI	1 switching output NPN, 1 analogue output 4 ... 20 mA																		
Vacuum display																			
-	bar																		
H	inchHg																		

Vacuum generators OVEM


Technical data

Function

NC, normally closed:

- Ejector pulse
- QS fitting or female G thread
- With open silencer
- Prepared for common supply manifold

 Temperature range
0 ... +50 °C

 Operating pressure
2 ... 8 bar

NO, normally open:

- Ejector pulse
- QS fitting or female G thread
- With open silencer
- Prepared for common supply manifold



General technical data																		
Type	OVEM-05			OVEM-07			OVEM-10			OVEM-05			OVEM-07			OVEM-10		
Pneumatic connections	QO	GO	PO	QO	GO	PO	QO	GO	PO	QS	GN	PL	QS	GN	PL	QS	GN	PL
Nominal size of Laval nozzle [mm]	0.45			0.7			0.95			0.45			0.7			0.95		
Grid dimension [mm]	20																	
Ejector characteristic	High vacuum/Standard H High suction rate/Standard L																	
Grade of filtration [µm]	40																	
Duty cycle [%]	100																	
Constructional design	Modular																	
Mounting position	Any																	
Type of mounting	Via through-holes Via female thread Via accessories																	
Pneumatic connection 1	QS6	G1/8	-	QS8	G1/4	-	QS8	G1/4	-	QS6	G1/8	-	QS8	G1/4	-	QS8	G1/4	-
Vacuum port	QS6	G1/8	QS6	QS8	G1/4	QS8	QS8	G1/4	QS8	QS6	G1/8	QS6	QS8	G1/4	QS8	QS8	G1/4	QS8
Pneumatic connection 3	Open silencer, integrated									QS8	G1/8	QS8	QS8	G3/8	QS8	QS8	G3/8	QS8
Design, silencer	Open									-								
Integrated function	ON/CN	On-off valve, electrical																
		Vacuum sensor																
		Filter																
		Open silencer									-							
	OE/CE	On-off valve, electrical																
		Ejector pulse, electrical																
		Flow control valve																
		Vacuum sensor																
Air saving function, electrical																		
Non-return valves																		
Filter																		
Open silencer									-									
Valve function	ON/OE	Open																
	CN/CE	Closed																
Manual override	Non-detenting (pushing)																	
	Additionally via operating buttons																	

Vacuum generators OVEM

Technical data

Operating and environmental conditions		
Type	OVEM-05/07/10-...-QO/PO/GO	OVEM-05/07/10-...-QS/GN/PL
Operating pressure [bar]	2 ... 8	2 ... 6
Nominal operating pressure [bar]	6	
Operating medium	Filtered compressed air, unlubricated, grade of filtration 40 µm	
Ambient temperature [°C]	0 ... +50	
Temperature of medium [°C]	0 ... +50	
Corrosion resistance class CRC ¹⁾	2	
CE mark (see declaration of conformity)	To EU EMC Directive	
Certification	C-Tick	

- 1) Corrosion resistance class 2 according to Festo standard 940 070
 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Performance data – High vacuum												
Type	OVEM-05				OVEM-07				OVEM-10			
Normal position of the vacuum generator	ON	OE	CN	CE	ON	OE	CN	CE	ON	OE	CN	CE
Max. vacuum [%]	93											
Operating pressure for max. vacuum [bar]	5.1				4.1				3.5			
Max. suction rate with respect to atmosphere [l/min]	6				16				19.5			
Suction rate at p ₁ = 6 bar [l/min]	5.9				15.1				16.8			
Pressurisation time ¹⁾ for 1 l volume, at p ₁ = 6 bar [s]	4.8	2	4.8	2	1.9	0.4	1.9	0.4	1.2	0.2	1.2	0.2
Noise level at p ₁ = 6 bar db(A)	51				58				73			

- 1) Time required to build up vacuum to -0.05 bar.

Performance data – High suction rate												
Type	OVEM-05				OVEM-07				OVEM-10			
Normal position of the vacuum generator	ON	OE	CN	CE	ON	OE	CN	CE	ON	OE	CN	CE
Max. suction rate with respect to atmosphere [l/min]	13				31.5				45			
Suction rate at p ₁ = 6 bar [l/min]	12.8				31.5				45			
Pressurisation time ¹⁾ for 1 l volume, at p ₁ = 6 bar [s]	2	1.3	2	1.3	1	0.2	1	0.2	0.8	0.2	0.8	0.2
Noise level at p ₁ = 6 bar db(A)	45				53				64			

- 1) Time required to build up vacuum to -0.05 bar.

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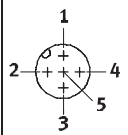
Technical data

Technical data – Vacuum sensor						
Electrical switching output	2P	2N	PU	NU	PI	NI
Mechanical						
Measured variable	Relative pressure					
Measuring principle	Piezoresistive					
Pressure measuring range	[bar]	–1 ... 0				
Accuracy FS ¹⁾	[%]	3				
Repetition accuracy switching value FS ¹⁾	[%]	0.6				
Setting options	Via display and keys					
Threshold value setting range	[bar]	–0.999 ... 0				
Hysteresis setting range	[bar]	–0.9 ... 0				
Type of display	4-character alphanumerical, backlit LCD					
Displayable units	–	bar				
	H	inchHg				
Indicating range	[bar]	–0.999 ... 0				
	[inchHg]	–29.5 ... 0				
Switching status display	Optical					
Switching position display	LCD					
Electrical connection	Plug M12x1, 5-pin					
Electrical						
Switching output	2x PNP	2x NPN	1x PNP	1x NPN	1x PNP	1x NPN
Standard switching input	IEC 61131-2					
Switching element function	NO contact					
	NC contact					
Switching function	Window comparator					
	Threshold comparator					
Operating voltage range	[V DC]	20.4 ... 27.6				
Idle current	[mA]	< 70				
Coil characteristics 24 V DC	[W]	Low current phase: 0.3				
		High current phase: 2.55				
Residual current	[mA]	0.1				
Max. output current	[mA]	100				
Voltage drop	[V]	≤ 1.5				
Inductive protective circuit	Adapted to MZ, MY, ME coils					
Switch-on suppression	Yes					
Analogue output	[V]	–	0 ... 10		–	
	[mA]	–	–		4 ... 20	
Permitted load resistance analogue output	[Ohm]	–	Min. 2000		Max. 500	
		–	4		–	
Accuracy of analogue output FS ¹⁾	[%]	–				
Protection against short circuit	Yes					
Protection against overloading	Yes					
Protection against polarity reversal	For all electrical connections					
Protection class	IP65					
Electrical protection class	III					

1) %FS = % of the measuring range final value (full scale)

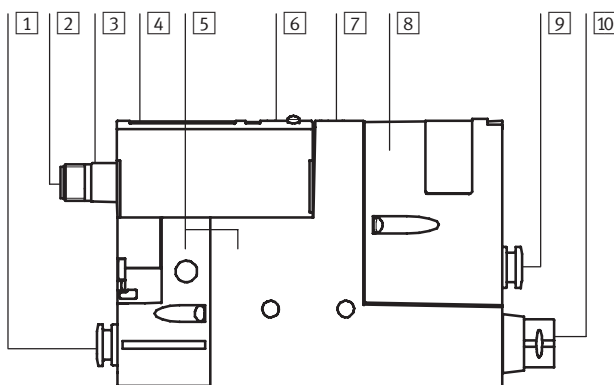
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Technical data

Pin allocation		
Plug M12x1, 5-pin	Pin	Description
	1	Supply voltage +24 V DC
	2	Output B (function depending on variant)
	3	0 V
	4	Output A (switching output for vacuum sensor)
	5	Switching input In (vacuum ON/OFF and ejector pulse)

Materials

Sectional view



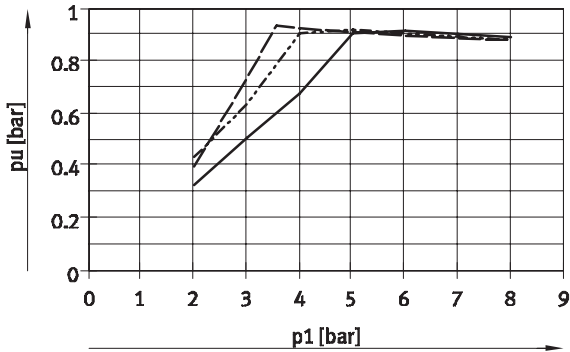
Vacuum generator OVEM-05/07/10			
1	Fitting	QS QO	Nickel-plated brass
	Connecting thread	GN	Wrought aluminium alloy, anodised
		GO	
2	Plug contacts		Gold-plated brass
3	Plug housing		Nickel-plated brass
4	Inspection window		Polyamide
5	Housing		Die-cast aluminium, reinforced polyamide
6	Key pad		Thermoplastic polyurethane elastomer
7	Adjusting screw	CE	Steel
		OE	
8	Filter housing		Reinforced polyamide
9	Fitting	QS	Nickel-plated brass
		QO	
		PL	
		PO	
Connecting thread	GN	Wrought aluminium alloy, anodised	
	GO		
10	Silencer	QO	Wrought aluminium alloy, PU foam
		GO	
		PO	
Fitting	QS	Nickel-plated brass	
	PL		
Connecting thread	GN	Wrought aluminium alloy, anodised	
-	Screws		Steel
-	Pins		Steel
-	Jet nozzle		Wrought aluminium alloy
-	Receiver nozzle		Polyacetal
-	Filter		Fabric, polyamide, sintered steel
-	Seals		Nitrile rubber
-	Hollow bolt	PL	Wrought aluminium alloy
		PO	
-	Mounting bracket	PL	Stainless steel
		PO	
Note on materials		QO	Contains PWIS (paint-wetting impairment substances)
		GO	
		PO	

Vacuum generators OVEM

Technical data

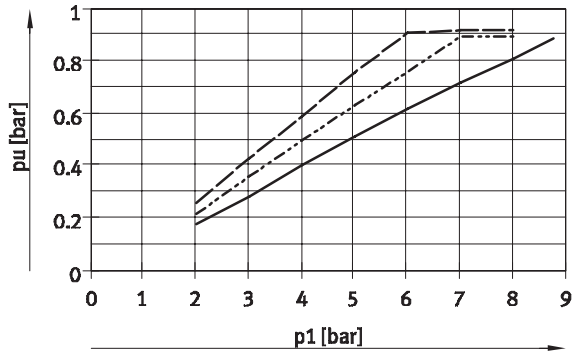
Vacuum p_u as a function of operating pressure p_1

High vacuum



- OVEM-05-H
- - - OVEM-07-H
- · - OVEM-10-H

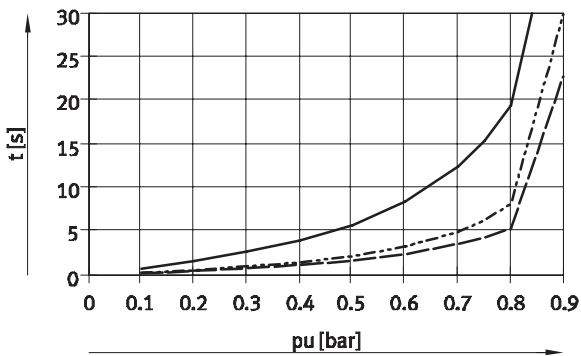
High suction rate



- OVEM-05-L
- - - OVEM-07-L
- · - OVEM-10-L

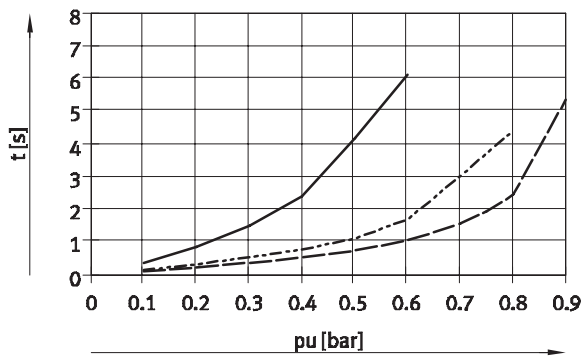
Evacuation time t as a function of vacuum p_u for 1 l volume at 6 bar operating pressure

High vacuum



- OVEM-05-H
- - - OVEM-07-H
- · - OVEM-10-H

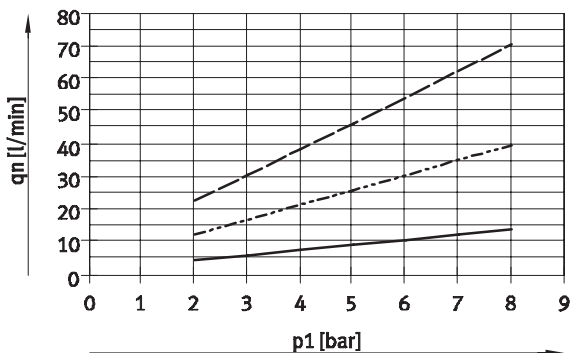
High suction rate



- OVEM-05-L
- - - OVEM-07-L
- · - OVEM-10-L

Air consumption q_n as a function of operating pressure p_1

High vacuum/high suction rate



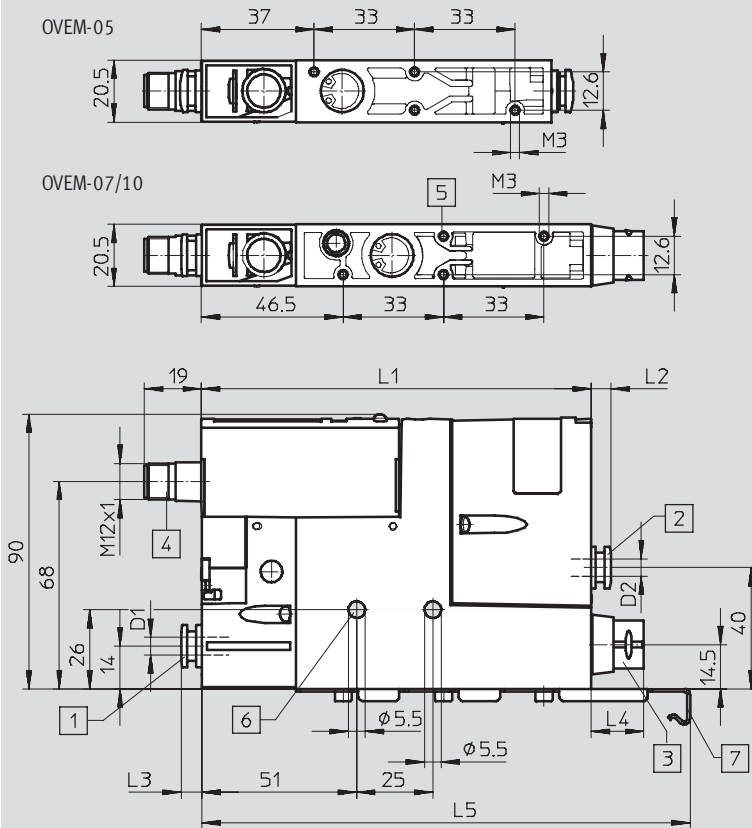
- OVEM-05
- - - OVEM-07
- · - OVEM-10

Vacuum generators OVEM

Technical data

Dimensions

Download CAD data → www.festo.com

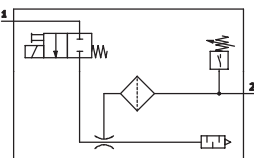
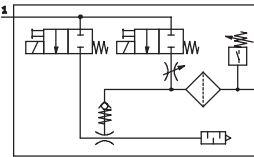
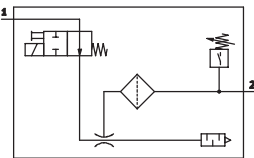
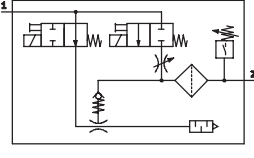


- 1 Supply port
- 2 Vacuum port
- 3 Silencer (SD)/Exhaust port
- 4 Electrical connection to fit NEBU-M12G5-K-...
- 5 Mounting thread M3
Max. tightening torque 0.8 Nm
- 6 Mounting hole
Max. tightening torque 2.5 Nm
- 7 Mounting bracket only for OVEM-...-PL/PO

Type	Pneumatic connections			L1	L2	L3	L4	L5
	P D1	V D2	R					
OVEM-05-...-QS-...	QS6	QS6	QS8	115	6.5	6.5	12	-
OVEM-05-...-QO-...			SD				-	
OVEM-05-...-PL-...	G1/4		QS8				12	
OVEM-05-...-PO-...			SD				-	
OVEM-05-...-GN-...	G1/8	G1/8	G1/8	8.2	8.2	8.2	8.2	-
OVEM-05-...-GO-...	SD		-					
OVEM-07/10-...-QS-...	QS8	QS8	QS8	128	6.5	6.5	12	-
OVEM-07/10-...-QO-...			SD				17.3	
OVEM-07/10-...-PL-...	G1/4		QS8				12	
OVEM-07/10-...-PO-...			SD				17.3	
OVEM-07/10-...-GN-...	G1/4	G1/4	G3/8	17.2	17.2	-	-	-
OVEM-07/10-...-GO-...			SD				17.3	

Vacuum generators OVEM

Technical data

Ordering data and weight								
Circuit symbol	Description	Electrical switching output	Nominal size [mm]	Weight [g]	Part No.	Type		
Normally closed								
	With open silencer	2x PNP	0.45	317	538834	OVEM-05-H-B-QO-CN-N-2P		
			0.7	322	538835	OVEM-07-H-B-QO-CN-N-2P		
			0.95		538836	OVEM-10-H-B-QO-CN-N-2P		
	With ejector pulse and open silencers	2x PNP	0.45	325	538831	OVEM-05-H-B-QO-CE-N-2P		
			0.7	331	538832	OVEM-07-H-B-QO-CE-N-2P		
			0.95		538833	OVEM-10-H-B-QO-CE-N-2P		
		2x NPN	0.7	331	540018	OVEM-07-H-B-QO-CE-N-2N		
			0.95		540019	OVEM-10-H-B-QO-CE-N-2N		
		2x PNP	0.7	334	540015	OVEM-07-H-B-GO-CE-N-2P		
			0.95		540016	OVEM-10-H-B-GO-CE-N-2P		
		2x NPN	0.7	334	540012	OVEM-07-H-B-GO-CE-N-2N		
			0.95		540013	OVEM-10-H-B-GO-CE-N-2N		
		Normally open						
			With open silencer	2x PNP	0.45	317	538828	OVEM-05-H-B-QO-ON-N-2P
0.7	322				538829	OVEM-07-H-B-QO-ON-N-2P		
0.95					538830	OVEM-10-H-B-QO-ON-N-2P		
	With ejector pulse and open silencers	2x PNP	0.45	325	538825	OVEM-05-H-B-QO-OE-N-2P		
			0.7	331	538826	OVEM-07-H-B-QO-OE-N-2P		
			0.95		538827	OVEM-10-H-B-QO-OE-N-2P		
		2x NPN	0.7	331	540009	OVEM-07-H-B-QO-OE-N-2N		
			0.95		540010	OVEM-10-H-B-QO-OE-N-2N		
		2x PNP	0.7	334	540006	OVEM-07-H-B-GO-OE-N-2P		
			0.95		540007	OVEM-10-H-B-GO-OE-N-2P		
		2x NPN	0.7	334	540003	OVEM-07-H-B-GO-OE-N-2N		
			0.95		540004	OVEM-10-H-B-GO-OE-N-2N		

Vacuum generators OVEM

Ordering data – Modular products

M Mandatory data				O Options					
Module No.		Nominal size of Laval nozzle		Housing size/width		Normal position of the vacuum generator		Vacuum sensor electrical switching output	
Vacuum generator		Ejector characteristics		Pneumatic connections		Electrical connection		Alternative vacuum display	
539074	OVEM	05 07 10	H L	B	QS QO GN GO PL PO	ON OE CN CE	N	2P PU PI 2N NU NI	H
Order example									
539074	OVEM	- 05	- H	- B	- QO	- ON	- N	- 2P	- H

Ordering table				
Size	20	Condi-tions	Code	Enter code
M Module No.	539074			
Vacuum generator	Vacuum generator with solenoid valve for vacuum on/off and manual override		OVEM	OVEM
Nominal size of Laval nozzle [mm]	0.45		-05	
	0.7		-07	
	0.95		-10	
Ejector characteristic	High vacuum		-H	
	High suction rate		-L	
Housing size/width [mm]	20		-B	-B
Pneumatic connections	All ports with QS fittings		-QS	
	Supply/vacuum port with QS fittings, exhaust port with open silencer		-QO	
	All ports with female G thread		-GN	
	Supply/vacuum port with female G threads, exhaust port with open silencer		-GO	
	Prepared for supply strip, vacuum port and exhaust port with QS fittings		-PL	
	Prepared for supply strip, vacuum port with QS fittings, exhaust port with open silencer		-PO	
Normal position of the vacuum generator	NO, normally open (vacuum generation)		-ON	
	NO, normally open (vacuum generation) with ejector pulse		-OE	
	NC, normally closed (no vacuum generation)		-CN	
	NC, normally closed (no vacuum generation) with ejector pulse		-CE	
Electrical connection	M12 plug (5-pin)		-N	-N
O Vacuum sensor, electrical switching output (gauge in bar, not for P1, N1)	Switching output 2x PNP		-2P	
	Switching output 1 x PNP + U		-PU	
	Switching output 1 x PNP + I		-PI	
	Switching output 2 x NPN		-2N	
	Switching output 1 x NPN + U		-NU	
	Switching output 1 x NPN + I		-NI	
Alternative vacuum display	inchHG		-H	

Transfer order code

539074	OVEM	-		-		-	B	-		-		-	N	-		-	
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Vacuum generators OVEM

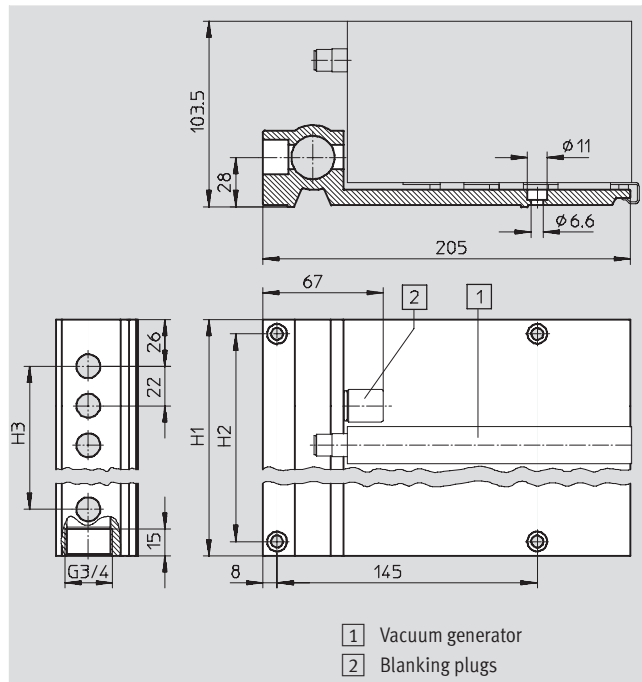
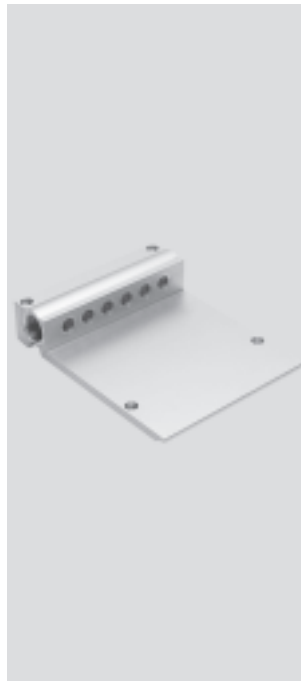
Accessories

Common supply manifold OABM-P
for vacuum generators
OVEM-...-PL/PO

Pneumatic connection 1: G3/4
Type of mounting: Via through-holes

Material: Wrought aluminium alloy


Note on material:
RoHS-compliant



Dimensions			
Number of device positions	H1	H2	H3
4	118	102	66
6	162	146	110
8	206	190	154

Tubing inner diameter d_i as a function of total air consumption q_{nN}																	
Total air consumption [l/min]																	
50	75	154	175	225	310	400	480	500	750	890	1000	1190	1340	1850	2240	2300	2900
Tubing inner diameter ¹⁾ [mm]																	
≥ 2.5	≥ 2.9	≥ 3.8	≥ 4	≥ 4.4	≥ 5	≥ 5.5	≥ 5.9	≥ 6	≥ 7	≥ 7.5	≥ 8	≥ 8.4	≥ 8.8	≥ 10	≥ 10.8	≥ 11	≥ 12
Recommended tubing														Technical data → Internet: pun, pan			
PUN-4	PUN-6	PUN-8	PUN-10	PUN-12	PUN-16	PAN-16											

1) With a tubing length of 3 m

 **Note**

The total air consumption of the completely equipped common supply manifold can be determined by adding up the individual consumption values of the generators used. It should be noted that in the case of vacuum generators with ejector pulse (OE, CE) the individually set values for the ejector pulse (duration and intensity) can lead to a significantly higher level of air consumption.

Ordering data and weight					
	Number of device positions	CRC ¹⁾	Weight [g]	Part No.	Type
Common supply manifold	4	2	767	549456	OABM-P-4
	6	2	1045	549457	OABM-P-6
	8	2	1330	549458	OABM-P-8

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Vacuum generators OVEM

Accessories

Blanking plug OASC-G1-P
for common supply manifold
OABM-P-...

Type of mounting: Threaded
Max. tightening torque: 10 Nm

Material:
Hollow bolt: Wrought aluminium alloy
Blanking cap: Steel
Seals: Steel, nitrile rubber
Note on material:
RoHS-compliant



Ordering data				
	CRC ¹⁾	Weight [g]	Part No.	Type
Blanking plug	2	53	549460	OASC-G1-P

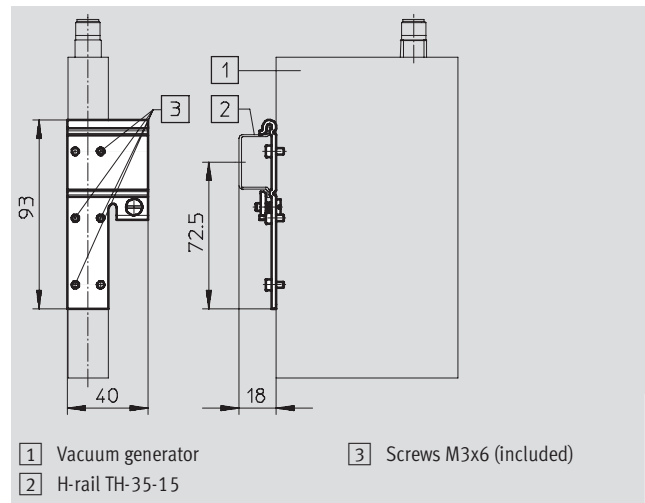
1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

H-rail mounting OABM-H
for vacuum generator OVEM

Max. tightening torque for H-rail mounting: 0.8 Nm

Material: Galvanised steel

Note on material:
RoHS-compliant



Ordering data				
		Weight [g]	Part No.	Type
H-rail mounting		52	549461	OABM-H