

Key features

FESTO

At a glance

Accelerated vacuum reduction for safe placement of the workpiece by means of integrated solenoid valve for controlling the ejector pulse

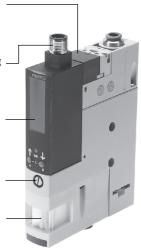
Central electrical connection via M12 plug

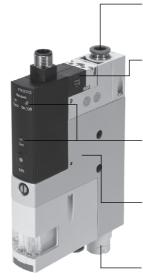
OVEM-...-2P/2N/PU/NU/PI/NI

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

Adjustment of the ejector pulse via flow control screw

Prevention of contamination of the vacuum generator by means of integrated filter





Quick and secure installation thanks to QS fitting

Fast vacuum build-up by means of integrated solenoid valve for controlling the compressed air supply

OVEM-...-1P/1N

Monitoring of the vacuum and status displays for switching output and solenoid valves by means of a vacuum sensor with LED display

Prevention of pressure drops by means of integrated non-return valve

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

The modular vacuum generator series

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

Functions	Values
Laval nozzle	0.45 mm
	0.7 mm
	0.95 mm
	1.4 mm
Vacuum generator characteristic	High vacuum
	High suction rate
Housing size	20 mm, metric version, display in bar ¹⁾
	20 mm, NPT version, display in inchHg
Pneumatic connections	QS fittings, with or without open silencer ¹⁾
	QS fittings (inch), with or without open silencer
	G female thread, with or without open silencer ¹⁾
	NPT female thread, with or without open silencer
	Prepared for supply manifold
Normal position of the vacuum	Normally open, with or without ejector pulse
generator	Normally closed, with or without ejector pulse
Electrical connection	M12 plug (5-pin)
Vacuum sensor	Without vacuum sensor
	Switching output 1x PNP or 1x NPN ²⁾
	Switching output 2x PNP or 2x NPN ³⁾
	Switching output 1x PNP or 1x NPN and analogue output ³⁾
Alternative vacuum display	inchHg ^{1) 3)}
	inchH2O ³⁾
	bar ³⁾

- 1) Product documentation → Internet: ovem
- 2) Vacuum sensor with LED display
- 3) Vacuum sensor with LCD display



Key features

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The innovative vacuum generator

Economical

- Short switching times thanks to integrated solenoid valves
 - Vacuum on/off
 - Ejector pulse
- Quick, precise and safe placement of the workpiece by means of the ejector pulse
- Cost saving through preventive maintenance/service thanks to maintenance indicator
- Cost saving through integrated air-saving function
- Powerful supply of multiple vacuum generators via a common supply manifold (>> page 17)
- Low-cost variants with one switching output (OVEM-...-1P/1N)

Easy to use

- Simple installation via M12 plugs and QS fittings
- Simple mounting via screws
- All control elements on one side
- Quiet operation thanks to integrated silencers
- Vacuum sensor with LCD display (OVEM-...-2P/2N/PU/NU/PI/N)
- Vacuum is displayed numerically and as a bar chart
- Important parameters and diagnostic information are displayed

Reliable

- Permanent monitoring of the entire vacuum system via a vacuum sensor 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 sensor
- 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

Choice of mounting types

- Direct mounting or via mounting bracket
- Straightforward mounting on H-rail via accessories
- Blocking of multiple vacuum generators on a common supply manifold (>> page 17)

Operating principle of OVEM

Vacuum ON/OFF

The compressed air supply is controlled by an integrated solenoid valve. The solenoid valve can be supplied with two different switching functions, NC and 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 or taught-in reference value for the generated vacuum is monitored via 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.

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.

Connection to higher-level systems

The connection to higher-level systems as well as the configuration of the switching outputs depends on the type of vacuum sensor.

OVEM-...-1P/1N

- Switching inputs for actuating the solenoid valves for vacuum generation and ejector pulse
- One switching output for supplying a control signal
 - Configured as an N/O contact
- Switching function configured as a threshold value comparator

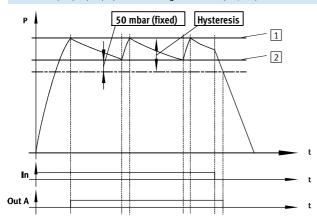
OVEM-...-2P/2N/PU/NU/PI/NI

- One digital switching input for actuating the solenoid valves
- Two digital switching outputs or one digital switching output and one analogue output for supplying control signals
 - Switching outputs can be configured as N/C or N/O contacts
 - Switching function of the outputs can be configured as a threshold value or window comparator
- If there are two switching outputs, these can be configured independently of each other. This enables tasks to be performed in parallel with one vacuum generator, reducing the time needed for sorting good and reject parts, for example.

Key features

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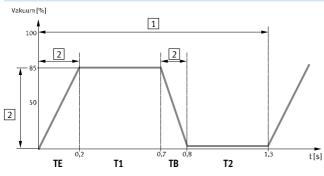
OVEM-...-2P/2N/PU/NU/PI/NI - Air-saving function LS (-CE, -OE)



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

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

OVEM-...-2P/2N/PU/NU/PI/NI - Condition monitoring and diagnostics



- 1 Cycle time
- Monitoring
- TE Evacuation time
- Transport time

T2

TB Air supply time Return time

The main operating parameters

- vacuum
- evacuation time and
- air supply time

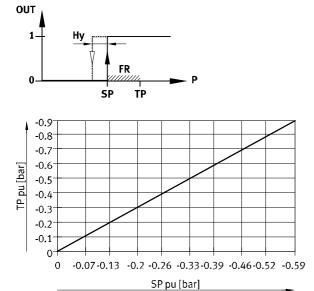
are continuously measured in the vacuum generator and compared with the individually set reference values (condition monitoring). If deviations in the reference values occur, these will be determined by the vacuum

generator and shown on the display (diagnostics). An electrical signal will also be transmitted to the higher-order controller.

This permits preventative action

- in order to prevent machine failure or downtime, for example, through timely maintenance
- · and to ensure process reliability (adherence to the cycle time).

OVEM-...-1P/1N - From the teach-in point to the switching point



- Teach-in point
- Hy Hysteresis
- Switching point FR Functional reserve

The switching point is determined from the teach-in point and the functional reserve. A functional reserve (35% of the

teach-in pressure) is subtracted from the teach-in pressure (SP = TP - 0.35*TP).

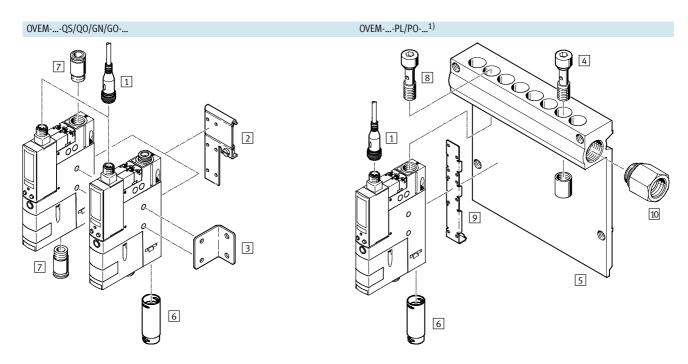
For example, a switching point of -0.33 bar is set at a teach-in pressure of -0.5 bar.

The hysteresis is fixed.

Vacuum generators OVEM, NPT Peripherals overview



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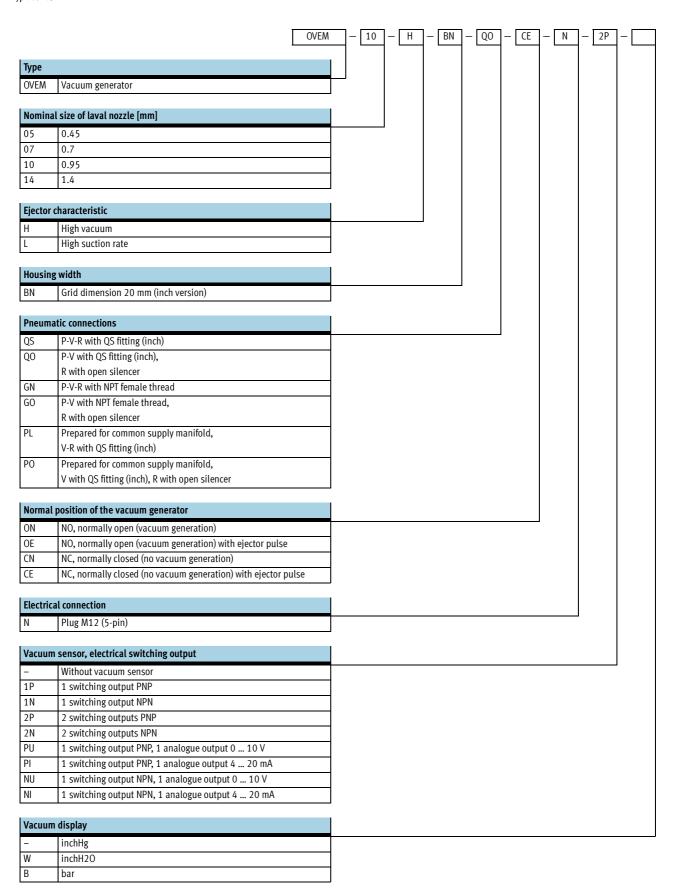
1) Hollow bolt [8] and mounting bracket [9] are included in the scope of delivery of the OVEM-...-PL/PO-.... Adapter 10 is included in the scope of delivery of the common supply manifold OABM-P....

	OVEMQ	S/QO/GN/G	0		OVEMPL/PO		→ Page/Internet
	QS	Q0	GN	GO	PL	PO	
1 Connecting cable			•		_		nebu
NEBU-M12G5		'			_		
2 H-rail mounting kit							18
OABM-H		'			_		
3 Mounting bracket							hrm-1
HRM-1		'			_		
4 Blanking plug					_		18
OASC-G1-P			_		-		
5 Common supply manifold					_		17
OABM-P			-		_		
6 Silencer extension		_				•	uoms
UOMS-1/4	_	-	_	-	_	-	
7 Push-in fitting							quick star
QS		_	•		_		
- Suction gripper							esg
ESG					_		
Suction cup holder							esh
ESH					_		
Suction cup							ess
ESS			_		_		



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Type codes





Vacuum generators OVEM, NPT Technical data

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Function

NC, normally closed:

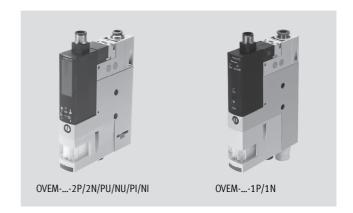
- Ejector pulse
- QS fitting (inch) or NPT female thread
- With open silencer
- Prepared for common supply manifold

NO, normally open:

- Ejector pulse
- QS fitting (inch) or NPT female thread
- With open silencer
- Prepared for common supply







General technical data					
Туре		OVEM-05	OVEM-07	OVEM-10	OVEM-14
Nominal size of laval nozzle	[mm]	0.45	0.7	0.95	1.4
Grid dimension	[mm]	20	•		·
Grade of filtration	[µm]	40			
Mounting position		Any			
Type of mounting		Via through-hole			
		Via female thread			
		Via accessories			
Pneumatic connection 1 (P)		→ Dimensions on	page 12		
Vacuum port (V)		→ Dimensions on	page 12		
Pneumatic connection 3 (R)		→ Dimensions on	page 12		

Technical data – Design			
Туре		OVEM-05/07/10/14QO/PO/GO	OVEM-05/07/10/14QS/GN/PL
Design		Modular	
Ejector characteristic		High vacuum/standard H	
		High suction rate/standard L	
Silencer design		Open	-
Integrated function	ON/CN	On-off valve, electrical	On-off valve, electrical
		Vacuum sensor ¹⁾	Vacuum sensor ¹⁾
		Filter	Filter
		Silencer, open	-
	OE/CE	On-off valve, electrical	On-off valve, electrical
		Ejector pulse, electrical	Ejector pulse, electrical
		Flow control valve	Flow control valve
		Vacuum sensor ¹⁾	Vacuum sensor ¹⁾
		Air-saving function, electrical ²⁾	Air-saving function, electrical ²⁾
		Non-return valve	Non-return valve
		Filter	Filter
		Silencer, open	-
Valve function	ON/OE	Open	•
	CN/CE	Closed	
Manual override		Non-detenting	
		Additionally via control buttons ²⁾	

Only with OVEM-...-2P/2N/PU/NU/PI/NI/1P/1N
 Only possible with OVEM-...-2P/2N/PU/NU/PI/NI



Vacuum generators OVEM, NPT Technical data

Operating and environmental cond	litions		
Туре		OVEM-05/07/10/14Q0/P0/G0	OVEM-05/07/10/14QS/GN/PL
Operating pressure	[bar]	2 8	2 6
Nominal operating pressure	[bar]	6	
Operating medium		Compressed air in accordance with ISO 8573	-1:2010 [7:4:4]
Note on operating/pilot medium		Operation with lubricated medium not possib	ole
Ambient temperature	[°C]	0 +50	
Temperature of medium	[°C]	0 +50	
Corrosion resistance class CRC ¹⁾		2	
CE mark (see declaration of conform	nity) ²⁾	To EU EMC Directive	
Certification		cULus recognized (OL)	
		C-Tick	

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.

For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com > Support > User documentation. 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		OVEN	OVEM-05			OVEN	OVEM-07			OVEM-10				OVEM-14			
Normal position of the vacuum genera	tor	ON	OE	CN	CE	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				3.6			
Max. suction rate with respect to	[l/min]	6				16				19.5				50.5			
atmosphere																	
Suction rate at $p_1 = 6$ bar	[l/min]	5.9				15.1				18.6				46			
			_			_			_		_				_	_	_
Air supply time ¹⁾ for 1 l volume,	[s]	4.8	2	4.8	2	1.9	0.4	1.9	0.4	1.2	0.2	1.2	0.2	0.6	0.2	0.6	0.2
at $p_1 = 6$ bar																	
Noise level at p ₁ = 6 bar	db(A)	51				58				73				77			

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

Performance data – High suction rate																	
Туре		OVEM	-05			OVEM	OVEM-07			OVEM-10				OVEM-14			
Normal position of the vacuum general	tor	ON	OE	CN	CE	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				92			
Suction rate at p ₁ = 6 bar	[l/min]	12.8				31.5				45.1				88.7			
Air supply 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	0.4	0.2	0.4	0.2
Noise level at p ₁ = 6 bar	db(A)	45				53				64				70			

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



Vacuum generators OVEM, NPT Technical data

Technical data – Vacuum sensor									
Electrical switching output		2P	2N	PU	NU	PI	NI	1P	1N
Mechanical									
Measured variable		Relative pr	essure						
Measuring principle		Piezoresis							
Pressure measuring range	[bar]	-1 0							
Accuracy FS ¹⁾	[%]	3						-	
Repetition accuracy	[%]	0.6						0.6	
of switching value FS ¹⁾									
Setting options		Via display	y and keys					Teach-in	
Threshold value setting range	[bar]	-0.999	0					-1 0	
Hysteresis setting range	[bar]	-0.9 0						-	
Display type		4-characte	r alphanume	ric, backlit LCI)			LED	
Displayable units	-	inchHg						-	
	W	inchH20						-	
	В	bar						-	
Display range	[inchHg]	-29.5 0						-	
	[inchH20]	-401.9	0					-	
	[bar]	-0.999	0					-	
Switching status display		Visual						Visual	
Switching position display		LCD						LED	
Electrical connection		Plug M12x	1, 5-pin					ı	
Electrical									
Switching output		2x PNP	2x NPN	1x PNP	1x NPN	1x PNP	1x NPN	1x PNP	1x NPN
Switching input to standard		IEC 61131	-2				ı	ı	
Switching element function		N/O contac	ct						
		N/C contac	t					-	
Switching function		Window co	mparator					-	
-			value compa	rator ²⁾					
Fixed hysteresis	[mbar]	_	<u>'</u>					20	
Operating voltage range	[V DC]	20.4 27	.6						
Duty cycle	[%]	100							
Idle current	[mA]	< 70						< 80	
Coil characteristics 24 V DC	[W]	Low-currer	nt phase: 0.3						
			nt phase: 2.5	55					
Residual current	[mA]	0.1	<u>'</u>						
Max. output current	[mA]	100							
Voltage drop	[V]	≤ 1.5							
Inductive protective circuit			MZ, MY, ME	coils					
Analogue output	[V]	-	,,	0 10				_	
Jan - my m	[mA]	_		-		4 20		_	
Permitted load resistance	[ohms]	_		Min. 2,00	10	Max. 500		_	
for analogue output	[e]			,00					
Accuracy of analogue output FS ¹⁾	[%]	_		4					
Protection against short circuit	[,~]	Yes							
Protection against overloading		Yes							
Reverse polarity protection			trical connec	tions					
Protection class		IP65							
Electrical protection class		III							

 [%] FS = % of the measuring range final value (full scale)
 OVEM-...-1P/1N threshold value with fixed hysteresis



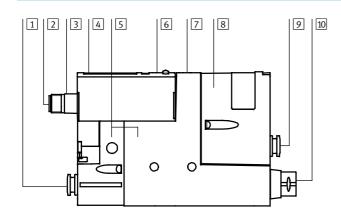
Vacuum generators OVEM, NPT Technical data

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Pin allocation			
Plug M12x1, 5-pin	Pin	Meaning	
		OVEM2P/2N/PU/NU/PI/NI	OVEM1P/1N
1	1	Supply voltage +24 V DC	Supply voltage +24 V DC
	2	Output B (function depending on variant)	Switching input for vacuum ON/OFF
2-(+++)-4	3	0 V	0 V
5	4	Output A (switching output for vacuum sensor)	Switching output ¹⁾
3	5	Switching input In	Switching input for ejector pulse ON/OFF
		(vacuum ON/OFF and ejector pulse)	

¹⁾ Pin 4 not used in types without vacuum sensor

Materials Sectional view

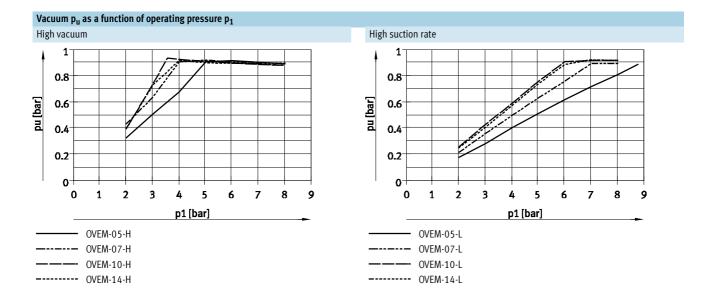


Туре	OVEM		2P/2N/PU/NU/ PI/NI	1P/1N
1	Fitting	QS/Q0	Nickel-plated bras	S
	Connecting thread	GN/GO	Anodised wrought	aluminium alloy
2	Pin contacts		Gold-plated brass	
3	Plug housing		Nickel-plated bras	S
4	Inspection window		PA	_
5	Housing		Die-cast aluminiu	m,
			PA-reinforced	
6	Key pad		TPE-U	PA-reinforced
7	Adjusting screw	CE/OE	Steel	
8	Filter housing		PA-reinforced	
9	Fitting	QS/QO/	Nickel-plated bras	S
		PL/PO		
	Connecting thread	GN/GO	Anodised wrought	aluminium alloy
10	Silencer	Q0/G0/	Wrought aluminiu	m alloy,
		PO	PU foam	
	Fitting	QS/Q0/	Nickel-plated bras	S
		PL/PO		
		GN/GO	Anodised wrought	aluminium alloy
-	Screws		Steel	
-	Pins		Steel	
-	Jet nozzle		Wrought aluminiu	m alloy
-	Receiver nozzle		POM	
-	Filter		Fabric, PA, sintere	d steel
-	Seals		Nitrile rubber	
-	Hollow bolt	PL/PO	Wrought aluminiu	m alloy
-	Mounting bracket	PL/PO	Stainless steel	
Note	on materials		RoHS-compliant	
		Q0/G0/	Contains PWIS (pa	int-wetting
		PO	impairment subst	ances)

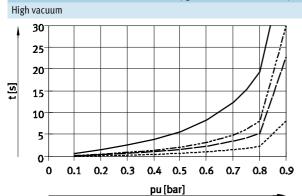


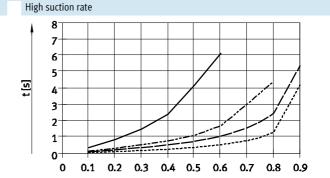
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Technical data



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





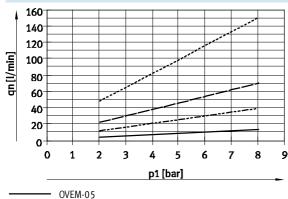
pu [bar]

OVEM-05-H
OVEM-07-H
OVEM-10-H
OVEM-14-H

OVEM-05-L
OVEM-07-L
OVEM-10-L
OVEM-14-L

Air consumption q_n as a function of operating pressure p_1

High vacuum/high suction rate

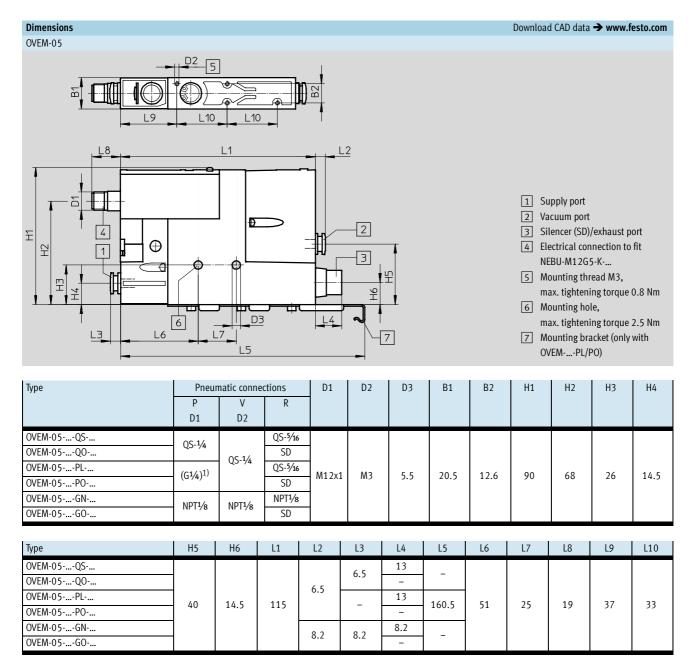


-O- New variants

Vacuum generators OVEM, NPT

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Technical data

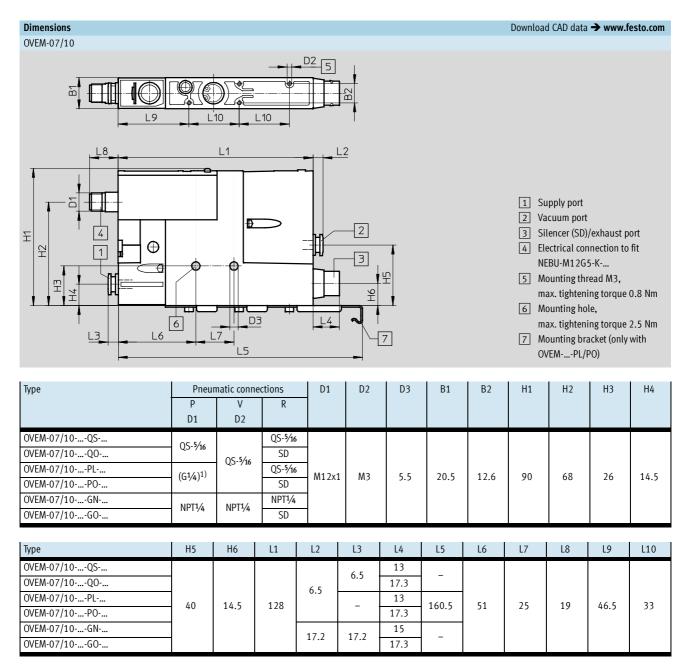


¹⁾ Thread for mounting on the common supply manifold (\Rightarrow 17)



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Technical data



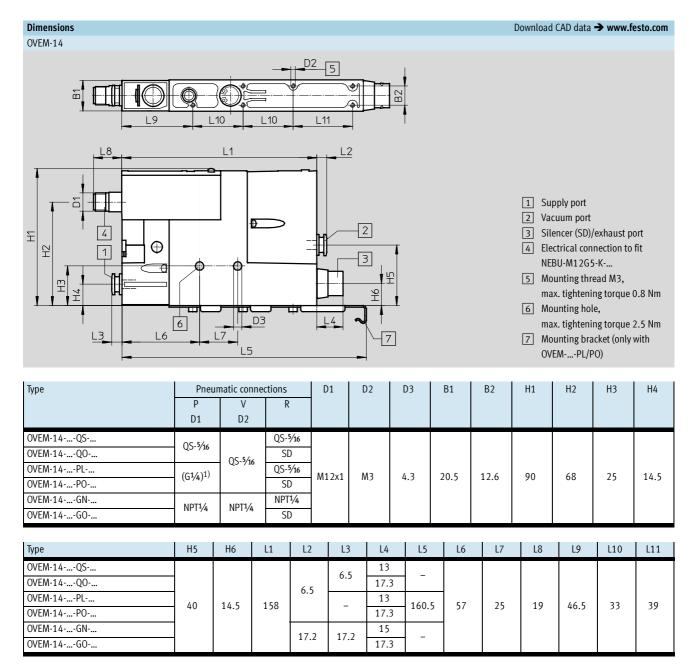
¹⁾ Thread for mounting on the common supply manifold (> 17)

-O- New variants

Vacuum generators OVEM, NPT

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Technical data



¹⁾ Thread for mounting on the common supply manifold (> 17)



Vacuum generators OVEM, NPT Technical data

Ordering data and weight							
Circuit symbol	Description	Electrical switching output	Nominal size	Weight	Part No.	Туре	
			[mm]	[g]			
Normally closed							
1	With open silencer	PNP	0.45	317	539992	OVEM-05-H-BN-QO-CN-N-2P	
			0.7	322	539993	OVEM-07-H-BN-QO-CN-N-2P	
			0.95		539994	OVEM-10-H-BN-QO-CN-N-2P	
			1.4	370	540002	OVEM-14-H-BN-QO-CN-N-2P	.0
	With ejector pulse and	PNP	0.45	325	539989	OVEM-05-H-BN-QO-CE-N-2P	
	open silencer		0.7	331	539990	OVEM-07-H-BN-QO-CE-N-2P	
			0.95		539991	OVEM-10-H-BN-QO-CE-N-2P	
1 1 2			1.4	380	540001	OVEM-14-H-BN-QO-CE-N-2P	.0.
Normally open							
, ,	With open silencer	PNP	0.45	317	539986	OVEM-05-H-BN-QO-ON-N-2P	
1	,		0.7	322	539987	OVEM-07-H-BN-QO-ON-N-2P	
			0.95		539988	OVEM-10-H-BN-QO-ON-N-2P	
2			1.4	370	540000	OVEM-14-H-BN-QO-ON-N-2P	.0.
				•	•		
				_			
1	With ejector pulse and	PNP	0.45	325	539983	OVEM-05-H-BN-QO-OE-N-2P	
	open silencer		0.7	331	539984	OVEM-07-H-BN-QO-OE-N-2P	
*			0.95		539985	OVEM-10-H-BN-QO-OE-N-2P	
			1.4	380	539999	OVEM-14-H-BN-QO-OE-N-2P	.0
\$ D							



Vacuum generators OVEM, NPT Ordering data – Modular products

0r	dering table				
Siz	ze	20	Conditions	Code	Enter code
M	Module No.	539075			
	Vacuum generator	Vacuum generator with solenoid valve for vacuum valve on/off and manual override		OVEM	OVEM
	Nominal size of laval [mm]	0.45		-05	
	nozzle	0.7		-07	
		0.95		-10	
		1.4		-14	
	Ejector characteristic	High vacuum		-H	
		High suction rate		-L	
	Housing size/width [mm]	20 (inch version)		-BN	-BN
	Pneumatic connections	All connections with inch fittings		-QS	
		Supply/vacuum port with inch fittings, exhaust port with open silencer		-Q0	
		All connections with NPT female thread		-GN	
		Supply/vacuum port with NPT female thread, exhaust port with open silencer		-GO	
		Prepared for supply manifold, vacuum port and exhaust port with inch fittings		-PL	
		Prepared for supply manifold, vacuum port with inch fittings, exhaust port with open		-PO	
		silencer			
	Normal position of the vacuum	NO, normally open (vacuum generation)		-ON	
	generator	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	Plug M12 (5-pin)		-N	-N
0	Vacuum sensor	Without vacuum sensor (switching input PNP)			
	(standard scale in inchHg)	Switching output 1x PNP		-1P	
		Switching output 1x NPN		-1N	
		Switching output 2x PNP		-2P	
		Switching output 1x PNP + U		-PU	
		Switching output 1x PNP + I		-PI	
		Switching output 2x NPN		-2N	
		Switching output 1x NPN + U		-NU	
		Switching output 1x NPN + I		-NI	
	Alternative vacuum display	inch H2O		-W	
		bar		-В	

Transfer order coo	le												
539075	OVEM	-	-	*	-	BN	-]-	-	N	-	-]	

FESTO

Accessories

Common supply manifold OABM-P

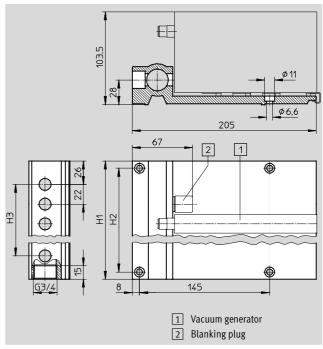
for vacuum generator OVEM-...-PL/PO

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

Material: Wrought aluminium alloy

Note on materials: RoHS-compliant





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

Tubing I	.D. d _i as a	a function	of total	air consu	mption q	nN											
Total air	consump	tion [l/m	in]														
50	75	154	175	225	310	400	480	500	750	890	1,000	1,190	1,340	1,850	2,240	2,300	2,900
Tubing I	D. 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
Recomm	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



The total air consumption of the fully equipped common supply manifold can be determined by adding the individual consumption of each generator used. Note that in the case

of vacuum generators with ejector pulse (OE, CE), the individually set values for the ejector pulse (duration and intensity) can result in much higher air consumption.

Ordering data and weight					
	Number of device locations	CRC ¹⁾	Weight [g]	Part No.	Туре
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.

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Accessories

Blanking plug OASC-G1-P

for common supply manifold OABM-P-...

Type of mounting: Screw-in Max. tightening torque: 10 Nm

Materials:

Hollow bolt: Wrought aluminium alloy

Blanking cap: Steel Seals: Steel, nitrile rubber Note on materials: RoHS-compliant



Ordering data				
	CRC ¹⁾	Weight	Part No.	Туре
		[g]		
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 kit OABM-H

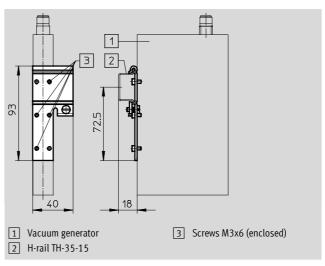
for vacuum generator OVEM

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

Material: Galvanised steel

Note on materials: RoHS-compliant





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