

Vacuum generator cartridge OASP

FESTO



Characteristics

At a glance

For even faster evacuation and maximum productivity: Multi-stage vacuum generation in the housing. This is done decentrally and in the smallest of spaces with the cartridge OASP.

- Two- or three-stage vacuum generator cartridge
- Can be integrated directly in the suction cup with connection for minimum evacuation times
- Available in the version with vacuum generator cartridge only or with retaining cap and integrated silencer
- Compact and lightweight

Allocation

[G4] Version G4

The OASP vacuum generator cartridge is suitable for use in the OVPN vacuum generator or for installation in individual applications.

Vacuum type

[L] High suction rate

Vacuum generators for high suction volumetric flow rates are optimised for generating a high vacuum at comparatively low suction volumetric flow rates.

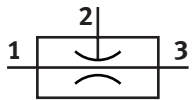
Large suction rate

OVPN 2-stage and 3-stage vacuum generator nozzles and OASP cartridges are available. The 3-stage variants achieve a higher suction volume against atmosphere (up to ≤ 0.1 bar) than the 2-stage variants via the 3rd stage, as the 3rd stage evacuates additional volume.

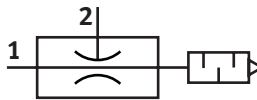
Exhaust connection

Optionally, the exhaust air can be discharged via an open silencer (-UA).

[] None



[UA] Open silencer UO



Type code

001	Series	
OASP	Vacuum generator cartridges	
002	Allocation	
G4	Version G4	
003	Vacuum type	
L	High suction rate	

004	Large suction rate	
2	2-stage	
3	3-stage	
005	Exhaust connection	
	None	
UA	Open silencer U0	

Datasheet

General technical data

Ejector characteristic	High suction rate
Design	Vacuum generator 2-stage Vacuum generator, 3-stage
Silencer design	Open
Nominal size, Laval nozzle	1.4 mm
Mounting position	optional
Type of mounting	Direct mounting via thread Plug-in
Nominal operating pressure	0.6 MPa
Nominal operating pressure	6 bar
Nominal operating pressure	87 psi
Sound pressure level at nominal operating pressure	60 dB(A)

Operating and environmental conditions

Operating pressure	0.1 ... 0.8 MPa
Operating pressure	1 ... 8 bar
Operating pressure	14.5 ... 116 psi
Nominal operating pressure	0.6 MPa
Nominal operating pressure	6 bar
Nominal operating pressure	87 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Ambient temperature	0 ... 60°C
Media temperature	0 ... 60°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
Recommended cleaning/purification	Soap suds (except silencers)

1) More information www.festo.com/x/topic/crc

General technical data

Design	Vacuum generator 2-stage	Vacuum generator, 3-stage
Max. vacuum	81%	
Operating pressure for max. vacuum	0.79 MPa	
Operating pressure for max. vacuum	7.9 bar	
Operating pressure for max. vacuum	114.55 psi	
Max. suction flow rate against atmosphere	160 l/min	245 l/min
Operating pressure for max. suction flow rate	0.4 MPa	0.8 MPa
Operating pressure for max. suction flow rate	4 bar	8 bar
Operating pressure for max. suction flow rate	58 psi	116 psi
Air supply time at nominal operating pressure	0.37 s	

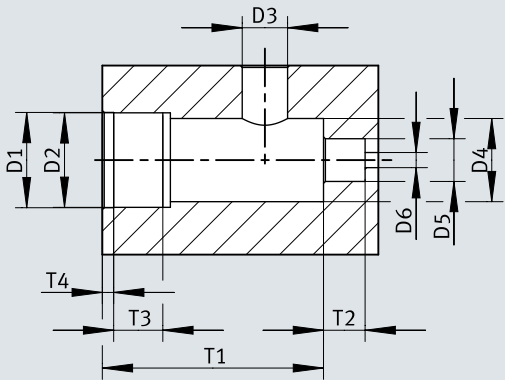
Datasheet

Materials	
Material transmitter nozzle	Reinforced PA
Material receiver nozzle	Reinforced PA
Material silencer	PA-reinforced PU foam
Material seals	NBR
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils


Dimensions


Dimensions – Mounting hole for the vacuum generator cartridge

Download CAD data www.festo.com



Ordering data

Vacuum generator cartridges OASP				
	Design	Product weight	Part no.	Type
	Vacuum generator 2-stage	31 g	8199152	OASP-G4-14-L2
	Vacuum generator, 3-stage	45 g	8199154	OASP-G4-14-L3

Vacuum generator cartridges OASP-...-UA (with open silencer)						
	Design	Integrated function	Sound pressure level at nominal operating pressure	Product weight	Part no.	Type
	Vacuum generator 2-stage	Open silencer	60 dB(A)	102 g	8199153	OASP-G4-14-L2-UA
	Vacuum generator, 3-stage			123 g	8199155	OASP-G4-14-L3-UA