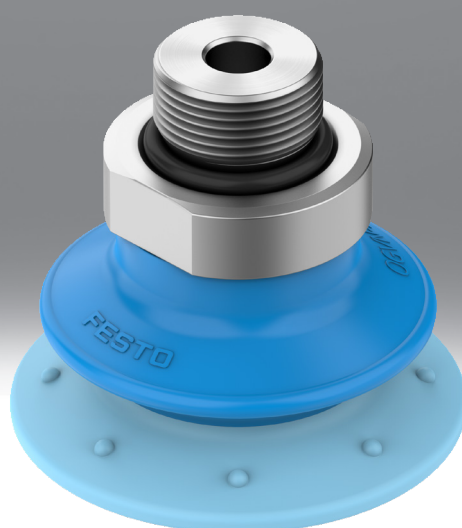


Suction cup with connection OGVN

FESTO



Characteristics

At a glance

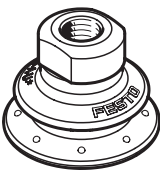
 The two-component suction cup OGVN has a sturdy design and the sealing lips lie smoothly against the workpiece, making it abrasion-resistant and able to compensate for unevenness. The suction cup consists of two different hardness ranges, but is made from the same polyurethane material.

- Excellent at holding corrugated, porous or leaky surfaces such as cardboard, plastic parts and composite materials with irregular surfaces.
- Can be used in applications with lifting forces parallel to the surface.

Metals with copper, zinc or nickel as the main constituent are excluded from use. Recommended for production plants for manufacturing lithium-ion batteries.

Suction cup shape

[A] Round, bellows, 1.5 convolutions



Thread type

[] Male thread



[F] Female thread



Type code

001	Series	
OGVN	Suction cup with connection	

002	Suction cup size	
20	20 mm diameter	
35	35 mm diameter	
52	52 mm diameter	
75	75 mm diameter	

003	Suction cup shape	
A	Round, bellows, 1.5 convolutions	

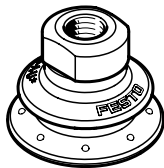
004	Material	
U	Polyurethane	

005	Vacuum port	
	None	
G14	G1/4	
G18	G1/8	
G38	G3/8	
M5	M5	

006	Thread type	
	Male thread	
F	Female thread	

Datasheet

Technical data – OGVN, round, protective bellows 1.5 convolutions



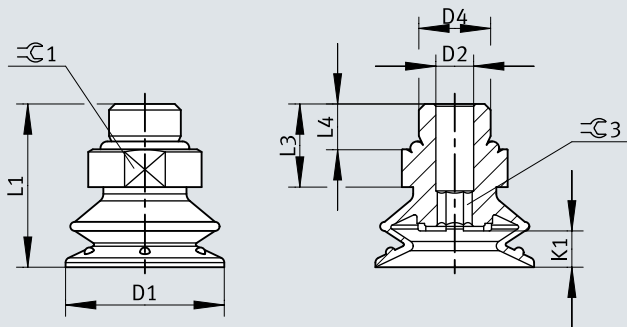
Nominal size	4 mm	5 mm	6 mm	8 mm	10 mm
Vacuum connection	G1/8 Female thread M5	G1/4 G3/8 Female thread G1/8	G1/4	G3/8 Female thread G1/8	G3/8
Suction cup diameter	20 mm	35 mm	52 mm		75 mm
Suction cup shape	Round protective bellows 1.5-fold				
Type of mounting	Via vacuum port				
Position of connection	On top				
Mounting position	Any				
Suction cup volume	1.04 cm ³	4.4 cm ³	13.3 cm ³		42.8 cm ³
Holding force at nominal operating pressure	14 N	38 N	90 N		190 N
Operating pressure	-95 ... 0 kPa				
Operating pressure	-0.95 ... 0 bar				
Operating pressure	-13.775 ... 0 psi				
Nominal operating pressure	-70 kPa				
Nominal operating pressure	-0.7 bar				
Operating medium	Atmospheric air based on ISO 8573-1:2010 [7:-:-]				
Ambient temperature	10 ... 45°C				
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress				
Material suction cup	PUR				
Material screwed plug	Wrought aluminium alloy				
Colour	Blue/light blue				
Shore hardness	A 30 +/-5 A 70 +/-5				
Note on materials	RoHS compliant				
LABS (PWIS) conformity	VDMA24364-A1/A2-L				

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

Dimensions

Dimensions – OGVN, round, protective bellows, 1.5 convolutions

Download CAD data www.festo.com



	D1 ø	D2 ø	D4	K1	L1	L3	L4	≅ 1	≅ 2
OGVN-20-A-U-M5-F	21	4	M5	4,8	16,6	6	–	13	4
OGVN-20-A-U-G18	21	5	G1/8	4,8	21,6	11	6	14	4
OGVN-35-A-U-G18-F	36	5	G1/8	8,6	27,1	8,5	–	17	5
OGVN-35-A-U-G14	36	5	G1/4	8,6	32,6	14	8	19	5
OGVN-35-A-U-G38	36	5	G3/8	8,6	34,6	16	10	22	5
OGVN-52-A-U-G18-F	53	8	G1/8	16	36	9	–	22	8
OGVN-52-A-U-G14	53	6	G1/4	16	42	15	9	22	6
OGVN-52-A-U-G38	53	8	G3/8	16	43	16	10	24	8
OGVN-75-A-U-G38	77,5	10	G3/8	21,6	44,6	12	10	–	10

Suction cup with connection OGVN

Ordering data

Suction cup with connection OGVN, round, protective bellows 1.5-fold (male thread)



Vacuum connection	Suction cup diameter	Height compensator for suction cup	Suction cup volume	Product weight	Part no.	Type
G1/8	20 mm	4.6 mm	1.04 cm ³	1.1 g	8204816	OGVN-20-A-U-G18
G1/4	35 mm	9.5 mm	4.4 cm ³	5.1 g	8204819	OGVN-35-A-U-G14
	52 mm	11.2 mm	13.3 cm ³	14.2 g	8204833	OGVN-52-A-U-G14
G3/8	35 mm	9.5 mm	4.4 cm ³	5.1 g	8204825	OGVN-35-A-U-G38
	52 mm	11.2 mm	13.3 cm ³	14.2 g	8204834	OGVN-52-A-U-G38
	75 mm	16 mm	42.8 cm ³	39.7 g	8204836	OGVN-75-A-U-G38

Suction cup with connection OGVN, round, protective bellows 1.5-fold (female thread)



Vacuum connection	Suction cup diameter	Height compensator for suction cup	Suction cup volume	Product weight	Part no.	Type
Female thread G1/8	35 mm	9.5 mm	4.4 cm ³	5.1 g	8204818	OGVN-35-A-U-G18-F
	52 mm	11.2 mm	13.3 cm ³	14.2 g	8204832	OGVN-52-A-U-G18-F
Female thread M5	20 mm	4.6 mm	1.04 cm ³	1.1 g	8204815	OGVN-20-A-U-M5-F

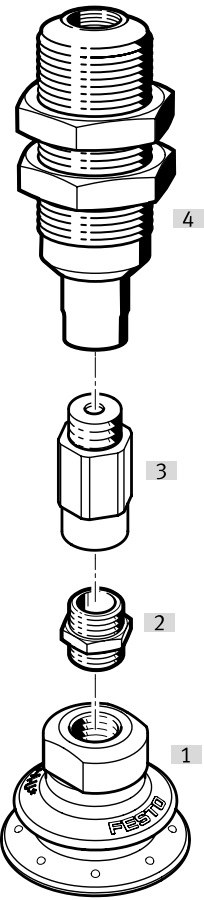
Suction cup without connector OGVN, round, protective bellows 1.5-fold



Suction cup diameter	Height compensator for suction cup	Suction cup volume	Product weight	Part no.	Type
20 mm	4.6 mm	1.04 cm ³	1.1 g	8204817	OGVN-20-A-U
35 mm	9.5 mm	4.4 cm ³	5.1 g	8204827	OGVN-35-A-U
52 mm	11.2 mm	13.3 cm ³	15 g	8204835	OGVN-52-A-U
75 mm	16 mm	42.8 cm ³	40 g	8204838	OGVN-75-A-U

Peripherals

Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Suction cup with connection OGVN		ogvn
[2] Double nipple NPFC-D		8
[3] Vacuum security valve ISV	The vacuum security valves are designed to maintain the vacuum in applications where several suction cups are used and one or more suction cups fail.	8
[4] Length compensator VAL	Workpieces are handled gently thanks to compensation for a possible overstroke of the handling device or for compensating for tolerance differences in the workpiece thickness.	8

Accessories

Double nipple NPFC-D



Pneumatic connection, port 1	Pneumatic connection, port 2	Size of pack	Product weight	Part no.	Type
M5	M5	10	2.47 g	8030267	NPFC-D-2M5-M
G1/8	G1/8		10 g	8133311	NPFC-D-2G18-M-F1A
		10	9.7 g	8030269	NPFC-D-2G18-M

Vacuum security valve ISV



Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Type
M5	M5	4 g	8217206	ISV-M5-F1A
G1/8	G1/8	9 g	8217204	ISV-1/8-F1A
G1/4	G1/4	16 g	8217205	ISV-1/4-F1A
G3/8	G3/8	33 g	33971	ISV-3/8

Length compensator VAL



Suction cup mounting	Vacuum connection	Height compensator for suction-cup holder	Product weight	Part no.	Type
Female thread G1/8	Female thread G1/8	10 mm	62 g	8214723	VAL-1/8-10-F1A
Female thread G1/4	Female thread G1/4	20 mm	118 g	8214724	VAL-1/4-20-F1A
Female thread M5	Female thread M5	5 mm	25 g	8214722	VAL-M5-5-F1A