

Suction cups VAS/VASB

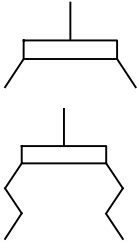


# Suction cups

Key features

## Product overview

Suction gripper and suction cup



Festo vacuum suction grippers offer outstanding functionality and quality.

An extensive range of modular suction cups in different shapes, materials and sizes, plus a wide selection of suction cup holders, angle and height compensators and filters within the

modular suction gripper system, provide users with a huge range of possible combinations for a wide variety of applications.

## Suction grippers ESG

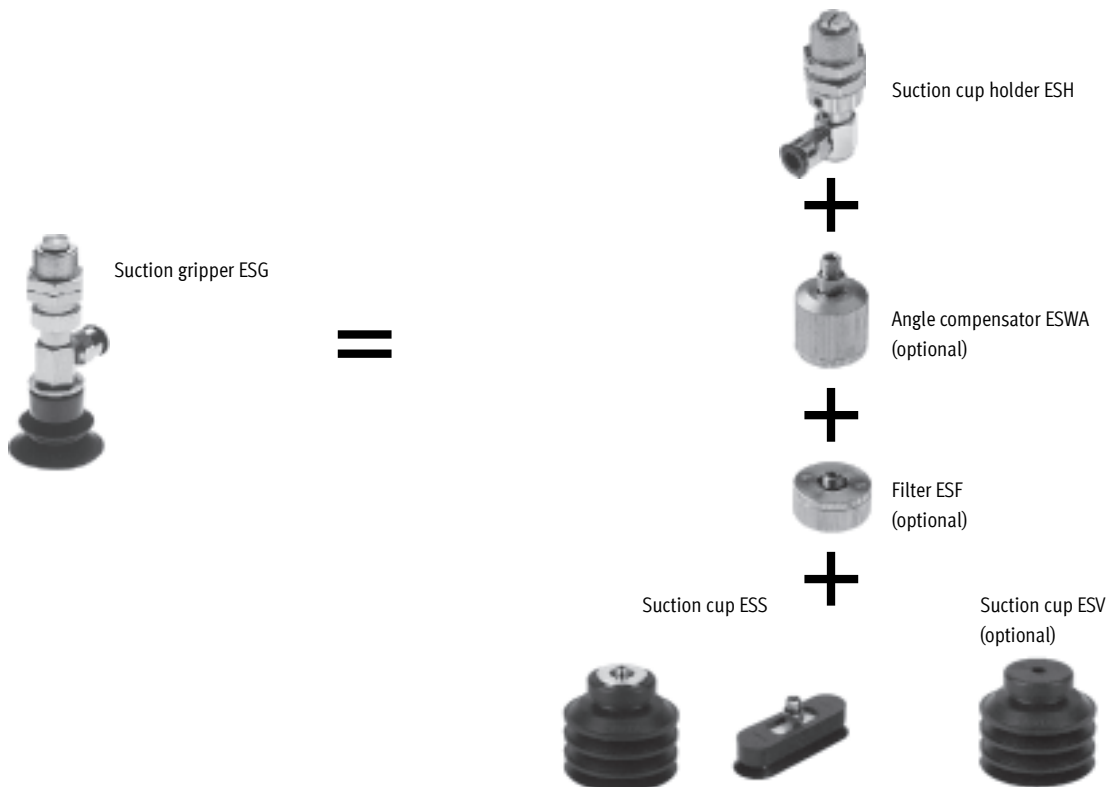
Technical data → Internet: esg

Modular products with over 2000 variants

- The ideal solution for the transport of workpieces of different weights, surfaces and shapes
- Choose from:
  - 15 suction cup diameters
  - 5 different materials – including antistatic types
  - 5 suction cup shapes
  - Various suction cup holders
  - Optional accessories (filters and angle compensators)
- Wide range of variants
- A suitable solution for every task
- Wide range to suit applications with various temperature ranges and workpiece surfaces
- Suction cups made from silicone are approved for use in the food industry

Suction grippers as a complete solution

Suction grippers made from individual components



# Suction cups

Key features

FESTO

## Suction cups VAS/VASB

Sturdy and reliable

- The ideal solution for the transport of workpieces of different weights, surfaces and shapes
- Choose from:
  - 12 suction cup diameters
  - 2 suction cup shapes: round and bellows design
  - 3 suction cup materials: nitrile rubber, polyurethane and silicone for use in a wide variety of applications
- Wide range to suit applications with various temperature ranges and workpiece surfaces
- Suction cups made from silicone are approved for use in the food industry
- All tubing connector sizes correspond to a holder size



# Suction cups VAS/VASB

Features

## Suction cups with fixed connecting thread

- VAS: 1 ... 125 mm diameter  
VASB: 8 ... 125 mm diameter
- Suction retention of workpieces with smooth, impervious surfaces
- Bellows suction cups can adapt to suit uneven, curved and inclined surfaces

### Nitrile rubber (NBR)

- Minimal markings left on shiny surfaces

### Polyurethane (PUR)

- Long service life
- Gentle handling with soft suction cup material

### Silicone (SI)

- Excellent thermal resistance
- Approved for use in the food industry



## Accessories

### Vacuum security valve ISV

Technical data → Internet: isv

- Vacuum does not dissipate when any of several suction cups arranged in parallel fail to maintain contact
- Saves compressed air and energy



### Height compensator VAL

Technical data → Internet: val

- Gentle handling of the workpieces by compensating for tolerance differences in the workpiece thickness.



### Elbow fitting LJK

Technical data → Internet: ljk

- Redirection of air connection
- Swivel joint rotatable 360°



### Adapter AD

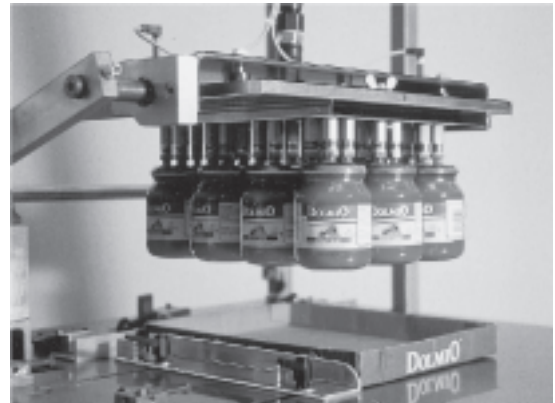
Technical data → Internet: ad

- For connection of suction cup with piston rod thread, for example



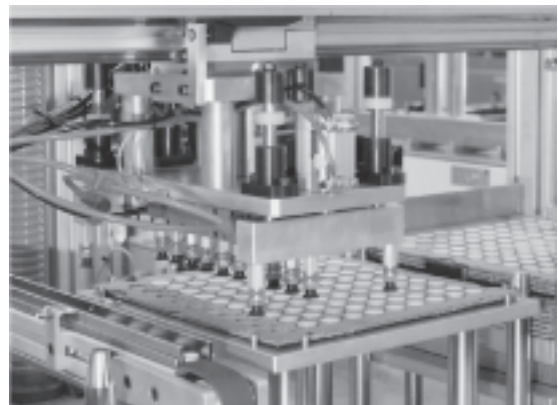
## Vacuum technology can be used in a wide range of applications

- Lifting
- Placing
- Moving
- Insertion
- Conveying
- Gripping
- Holding
- Loading
- Clamping
- Transporting
- Repositioning
- Turning




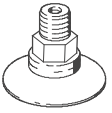
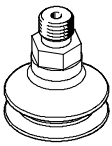
Flexible automation technology is an important field of application for vacuum technology:

- Small, mid-sized and large series manufacturing
- Assembly
- Conveyor and packaging technology



# Suction cups VAS/VASB

Product range overview

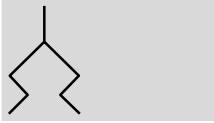
Version	Version	Type	Suction cup diameter	Suction cup mounting	Vacuum port	Suction cup materials	→ Page/ Internet
Round, flat	<b>Vacuum port on side</b>						
		VAS	8	M5	PK-3	TPE-U(PU)	6
	<b>Vacuum port on top</b>						
		VAS	1, 2, 5, 8, 10, 15, 30, 40, 55, 75, 100, 125	M3, M5, G1/8, G1/4, G3/8	M3, M5, G1/8, G1/4, G3/8	NBR	7
			8, 10, 15, 30, 40, 55, 75, 100, 125	M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8	VMQ (silicone)	7
8, 10, 15, 30, 40, 75, 100, 125			M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8	VMQ (silicone)	12	
8, 10, 15, 30, 40, 55, 75, 100, 125			M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8	PUR	12	
Round, bellows, 1.5 convolutions	<b>Vacuum port on top</b>						
		VASB	8, 15, 30, 40, 55, 75, 100, 125	M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8	NBR	16
			8, 15, 30, 40, 55, 75, 100, 125	M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8	VMQ (silicone)	16
			8, 30, 75, 100	M5, G1/8, G1/4	M5, G1/8, G1/4	VMQ (silicone)	20
			8, 15, 30, 40, 55, 75, 100, 125	M5, G1/8, G1/4, G3/8	M5, G1/8, G1/4, G3/8	PUR	20



# Suction cups VAS-...-S

Technical data

FESTO

Function



-  Diameter  
8 mm
-  Temperature range  
-20 ... +60 °C

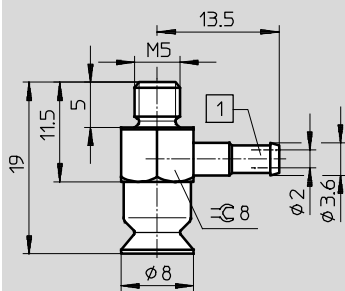


General technical data		
Suction cup diameter	[mm]	8
Suction cup mounting		M5
Vacuum port		PK-3
Nominal size	[mm]	2
Design		Round, standard, vacuum port on side
Mounting position		Any
Breakaway force at 70% vacuum	[N]	1.6
Effective suction cup diameter	[mm]	5.5

Operating and environmental conditions		
Operating medium		Atmospheric air based on ISO 8573-1:2010 [7:-:-]
Ambient temperature	[°C]	-20 ... +60

Materials	
Suction cup	TPE-U(PU)
Threaded plug	Brass

## Dimensions Download CAD data → [www.festo.com](http://www.festo.com)



1 Barbed connector for tubing  
I.D. 3 mm

Ordering data			
Suction cup diameter [mm]	Vacuum port	Part No.	Type
8	M5	12612	VAS-8-M5-S

## Suction cups VAS-...-NBR/SI

Type codes

		VAS	-	30	-	1/8	-	NBR
<b>Type</b>								
VAS	Suction cup							
<b>Suction cup diameter [mm]</b>								
1	1							
2	2							
5	5							
8	8							
10	10							
15	15							
30	30							
40	40							
55	55							
75	75							
100	100							
125	125							
<b>Vacuum port</b>								
M3	Thread M3							
M5	Thread M5							
1/8	Thread G1/8							
1/4	Thread G1/4							
3/8	Thread G3/8							
<b>Materials</b>								
NBR	Nitrile rubber							
SI	Silicone							

 - Note

Possible combinations can be found in the ordering data.

- 1 - VAS-...-SI to be discontinued  
Available until 2012



## Suction cups VAS-...-NBR/SI

Technical data

FESTO

Function



-  - Diameter  
1 ... 125 mm
-  - Temperature range  
-40 ... +200 °C



General technical data													
Suction cup diameter	[mm]	1	2	5	8	10	15	30	40	55	75	100	125
Vacuum port		M3	M3	M5	M5	M5	G1/8	G1/8	G1/4	G1/4	G1/4	G1/4	G3/8
Nominal size	[mm]	0.4	1	1.5	2	2	3	3	4	4	4	4	7
Design		Round, standard, vacuum port on top											
Type of mounting		Via vacuum port											
Mounting position		Any											
Breakaway force at 70% vacuum	[N]	0.035	0.14	0.9	1.6	4.5	7.9	34	56	106	197	397	606
Effective suction cup diameter	[mm]	0.8	1.6	4	5.5	8	12	25	32	44	60	85	105

Operating and environmental conditions		
Type	VAS-...-NBR	VAS-...-SI
Operating medium	Atmospheric air based on ISO 8573-1:2010 [7:-:-]	
Ambient temperature	[°C] -20 ... +80	-40 ... +200
Corrosion resistance class CRC <sup>1)</sup>	2	

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.

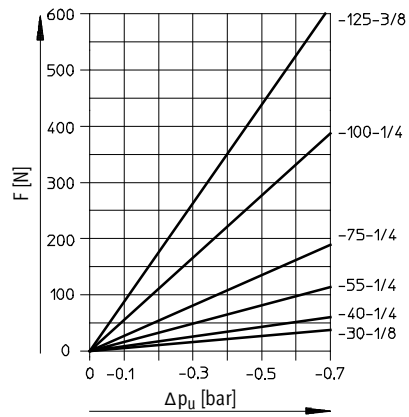
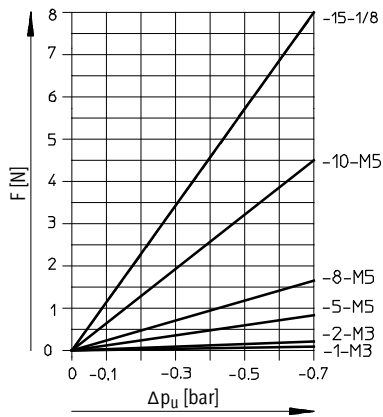
Materials		
Type	VAS-...-NBR	VAS-...-SI
Shore hardness	55 ±5 (suction cup diameter 1 ... 5 mm)	60 ±5
	60 (suction cup diameter 8 ... 15 mm)	
	70 (suction cup diameter 30 ... 125 mm)	
Suction cup	NBR	VMQ (silicone)
Threaded plug	Die-cast zinc (suction cup diameter 1, 2, 15 ... 100 mm)	Wrought aluminium alloy
	Brass (suction cup diameter 5 ... 10 mm)	
	Wrought aluminium alloy (suction cup diameter 125 mm)	
Note on materials	-	Contains PWIS (paint wetting impairment substances)



## Suction cups VAS-...-NBR/SI

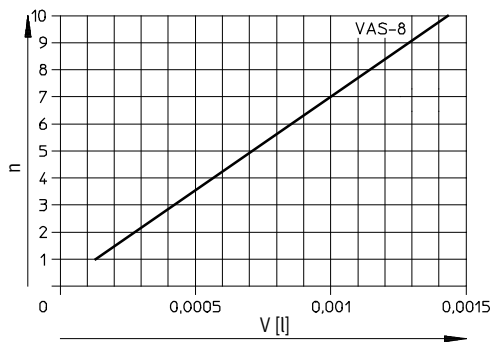
Technical data

### Theoretical suction force F as a function of vacuum $p_u$

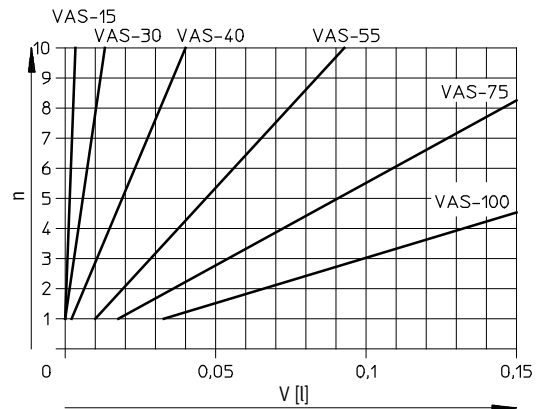


### Suction cup volume

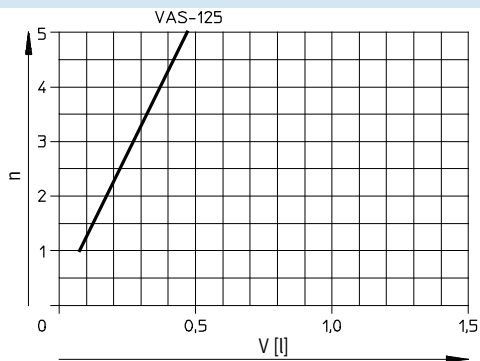
VAS-8



VAS-15 ... 100



VAS-125



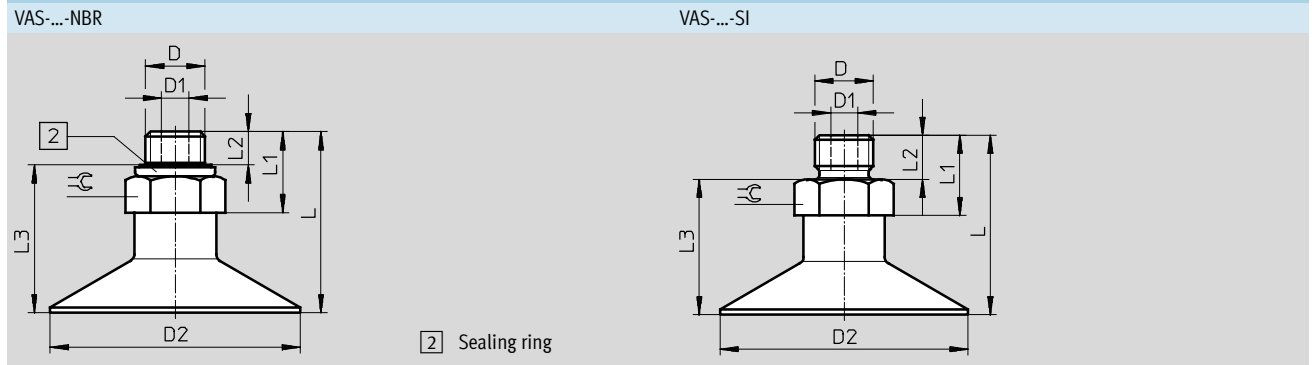
-  - VAS-...-SI to be discontinued  
Available until 2012

## Suction cups VAS-...-NBR/SI

Technical data

FESTO

Dimensions Download CAD data → [www.festo.com](http://www.festo.com)



Type	Connection D	D1 ∅	D2 ∅	L	L1	L2	L3	☉
VAS-1-...-NBR <sup>1)</sup>	M3	0.9	1	7.4	5.8	4	3.4	4.5
VAS-2-...-NBR <sup>1)</sup>	M3	1	2	9.8	5.8	4	5.8	4.5
VAS-5-...-NBR	M5	1.5	5	16.5	10	3.55	12.95	8
VAS-8-...-NBR	M5	2	8	19	11.3	3.55	15.45	8
VAS-10-...-NBR	M5	2	10	19.2	11.5	3.55	15.65	8
VAS-15-...-NBR	G1/8	3	15	20.2	12	4.7	15.5	13
VAS-30-...-NBR	G1/8	3	30	21.5	12	4.7	16.8	13
VAS-40-...-NBR	G1/4	4	40	30.5	17	5.8	24.7	17
VAS-55-...-NBR	G1/4	4	55	28	17	6.2	21.8	17
VAS-75-...-NBR	G1/4	4	75	28	17	6.2	21.8	17
VAS-100-...-NBR	G1/4	4	100	28	17	6.2	21.8	17
VAS-125-...-NBR	G3/8	7	125	36	20	6.45	29.55	19
VAS-8-...-SI	M5	2	8	19.2	11.5	5	14.2	8
VAS-10-...-SI	M5	2	10	19.2	11.5	5	14.2	8
VAS-15-...-SI	G1/8	3	15	20	12	6.5	13.5	13
VAS-30-...-SI	G1/8	3	30	21.5	12	6.5	15	13
VAS-40-...-SI	G1/4	4	40	30.5	17	8	22.5	17
VAS-55-...-SI	G1/4	4	55	33.5	17	8	25.5	17
VAS-75-...-SI	G1/4	4	75	28	14	8	20	17
VAS-100-...-SI	G1/4	4	100	28.5	14.5	8	20.5	17
VAS-125-...-SI	G3/8	7	125	36	16.5	9	27	19










1) Sealing ring is not included in the scope of delivery.

 VAS-...-SI to be discontinued  
Available until 2012

**FESTO**

## Suction cups VAS-...-NBR/SI

Technical data

Ordering data				
Suction cup diameter [mm]	Vacuum port	Weight [g]	Part No.	Type
1	M3	1	173437	VAS-1-M3-NBR
2	M3	1	173438	VAS-2-M3-NBR
5	M5	2	173439	VAS-5-M5-NBR
8	M5	4	34588	VAS-8-M5-NBR
10	M5	3	173440	VAS-10-M5-NBR
15	G $\frac{1}{8}$	11	36142	VAS-15- $\frac{1}{8}$ -NBR
30	G $\frac{1}{8}$	13	34587	VAS-30- $\frac{1}{8}$ -NBR
40	G $\frac{1}{4}$	26	36143	VAS-40- $\frac{1}{4}$ -NBR
55	G $\frac{1}{4}$	32	36144	VAS-55- $\frac{1}{4}$ -NBR
75	G $\frac{1}{4}$	76	36145	VAS-75- $\frac{1}{4}$ -NBR
100	G $\frac{1}{4}$	138	34586	VAS-100- $\frac{1}{4}$ -NBR
125	G $\frac{3}{8}$	152	152605	VAS-125- $\frac{3}{8}$ -NBR
8	M5	2	160988	VAS-8-M5-SI 
10	M5	3	173442	VAS-10-M5-SI 
15	G $\frac{1}{8}$	6	158973	VAS-15- $\frac{1}{8}$ -SI 
30	G $\frac{1}{8}$	7	158974	VAS-30- $\frac{1}{8}$ -SI 
40	G $\frac{1}{4}$	13	158975	VAS-40- $\frac{1}{4}$ -SI 
55	G $\frac{1}{4}$	16	158976	VAS-55- $\frac{1}{4}$ -SI 
75	G $\frac{1}{4}$	36	160989	VAS-75- $\frac{1}{4}$ -SI 
100	G $\frac{1}{4}$	67	160990	VAS-100- $\frac{1}{4}$ -SI 
125	G $\frac{3}{8}$	148	160991	VAS-125- $\frac{3}{8}$ -SI 

# Suction cups VAS-...-SI-B/PUR-B

Type codes

VAS - 30 - 1/8 - PUR - B

**Type**

VAS	Suction cup
-----	-------------

**Suction cup diameter [mm]**

8	8
10	10
15	15
30	30
40	40
55	55
75	75
100	100
125	125

**Vacuum port**


M5	Thread M5
1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8

**Materials**

SI	VMQ (silicone)
PUR	Polyurethane

**Generation**

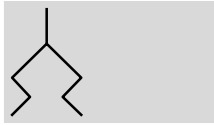
B	B series
---	----------



 **Note**  
Possible combinations can be found in the ordering data.

# Suction cups VAS-...-SI-B/PUR-B

Technical data

Function



-  Diameter  
8 ... 125 mm
-  Temperature range  
-40 ... +200 °C



General technical data										
Suction cup diameter	[mm]	8	10	15	30	40	55	75	100	125
Vacuum port		M5	M5	G1/8	G1/8	G1/4	G1/4	G1/4	G1/4	G3/8
Nominal size	[mm]	2	2	3	3	4	4	4	4	7
Design		Round, flat								
Type of mounting		Via vacuum port								
Mounting position		Any								
Nominal operating pressure	[bar]	-0.7								
Holding force at nominal operating pressure -0.7 bar	[N]	SI: 2.6 PUR: 2.8	SI: 3.7 PUR: 4.5	8.5	SI: 31 PUR: 34	SI: 58 PUR: 65	110	SI: 245 PUR: 250	SI: 464 PUR: 450	570
Effective suction cup diameter	[mm]	SI: 6.8 PUR: 7.1	SI: 8.2 PUR: 8.5	12.4	SI: 23.7 PUR: 24.8	SI: 32.5 PUR: 34.4	44.7	SI: 66.7 PUR: 67.4	90.5	101.8
Suction cup volume	[cm <sup>3</sup> ]	0.095	0.12	0.328	1.29	3.47	8.01	18.3	33.5	79.1

Operating and environmental conditions		
Type	VAS-...-SI-B	VAS-...-PUR-B
Operating pressure	[bar]	-0.95 ... 0
Operating medium		Atmospheric air based on ISO 8573-1:2010 [7:-:-]
Ambient temperature	[°C]	-40 ... +200
Corrosion resistance class CRC <sup>1)</sup>		2
Suitability for use in the food industry		As per manufacturer's declaration

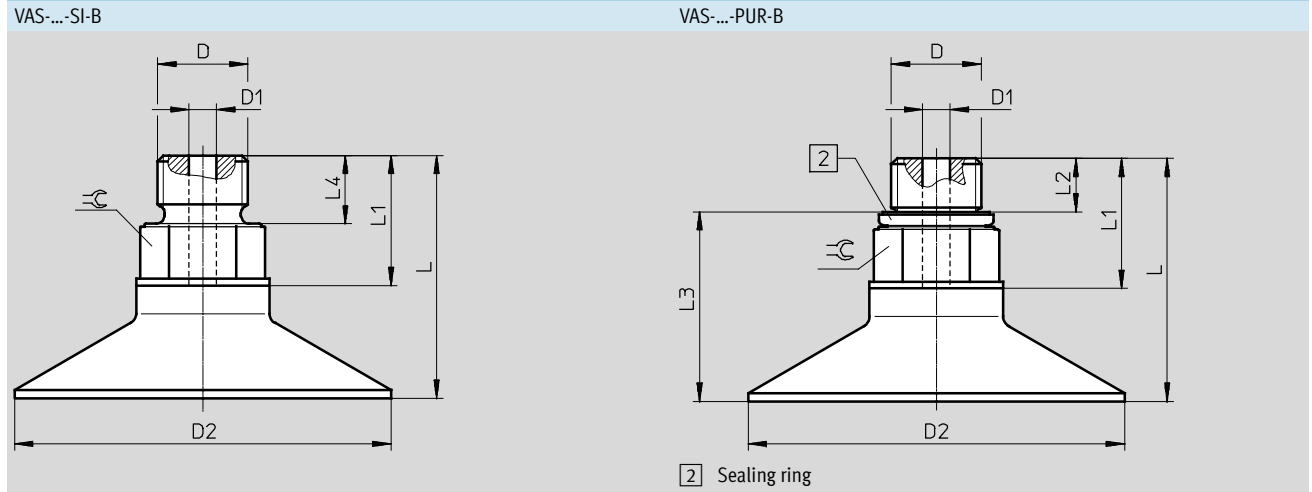
1) Corrosion resistance class 2 according to Festo standard 940 070  
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Materials		
Type	VAS-...-SI-B	VAS-...-PUR-B
Shore hardness		60 ±5
Suction cup	VMQ (silicone) Colour: transparent	PUR Colour: blue
Threaded plug	Wrought aluminium alloy	Brass (suction cup diameter 8 ... 30 mm) Die-cast zinc (suction cup diameter 40 ... 125 mm)
Note on materials	RoHS-compliant Contains PWIS (paint wetting impairment substances)	-

# Suction cups VAS-...-SI-B/PUR-B

Technical data

Dimensions Download CAD data → [www.festo.com](http://www.festo.com)



Type	Connection D	D1 Ø	D2 Ø	L	L1	L2	L3	L4	⌀
VAS-8-...-SI-B	M5	2	8	19.2	11.5	-	-	4.3	8
VAS-10-...-SI-B	M5	2	10	19.2	11.5	-	-	4.3	8
VAS-15-...-SI-B	G1/8	3	15	20	12	-	-	6.5	13
VAS-30-...-SI-B	G1/8	3	30	21.5	12	-	-	6.5	13
VAS-40-...-SI-B	G1/4	4	40	30.5	17	-	-	8	17
VAS-75-...-SI-B	G1/4	4	75	28.2	17	-	-	8	17
VAS-100-...-SI-B	G1/4	4	100	28	17	-	-	8	17
VAS-125-...-SI-B	G3/8	7	125	36	20	-	-	12	19
VAS-8-...-PUR-B	M5	2	8	19	11.3	2.85	16.15	-	8
VAS-10-...-PUR-B	M5	2	10	19.2	11.5	2.85	16.35	-	8
VAS-15-...-PUR-B	G1/8	3	15	20	12	4.7	15.3	-	13
VAS-30-...-PUR-B	G1/8	3	30	21.5	12	4.7	16.8	-	13
VAS-40-...-PUR-B	G1/4	4	40	29.5	17	5.8	23.7	-	17
VAS-55-...-PUR-B	G1/4	4	55	32.5	17	5.8	26.7	-	17
VAS-75-...-PUR-B	G1/4	4	75	28	17	5.8	22.2	-	17
VAS-100-...-PUR-B	G1/4	4	100	28	17	5.8	22.2	-	17
VAS-125-...-PUR-B	G3/8	7	125	36	20	6.45	29.55	-	19

## Suction cups VAS-...-SI-B/PUR-B

Technical data

**FESTO**

Ordering data			
Suction cup diameter [mm]	Vacuum port	Weight [g]	Part No. Type
VMQ (silicone)			
8	M5	2	1377781 VAS-8-M5-SI-B
10	M5	2	1385610 VAS-10-M5-SI-B
15	G $\frac{1}{8}$	4	1376604 VAS-15- $\frac{1}{8}$ -SI-B
30	G $\frac{1}{8}$	5	1377752 VAS-30- $\frac{1}{8}$ -SI-B
40	G $\frac{1}{4}$	14	1379454 VAS-40- $\frac{1}{4}$ -SI-B
75	G $\frac{1}{4}$	62	1382165 VAS-75- $\frac{1}{4}$ -SI-B
100	G $\frac{1}{4}$	116	1386376 VAS-100- $\frac{1}{4}$ -SI-B
125	G $\frac{3}{8}$	214	1415120 VAS-125- $\frac{3}{8}$ -SI-B
Polyurethane			
8	M5	3	1396086 VAS-8-M5-PUR-B
10	M5	3	1469698 VAS-10-M5-PUR-B
15	G $\frac{1}{8}$	3	1396087 VAS-15- $\frac{1}{8}$ -PUR-B
30	G $\frac{1}{8}$	5	1396090 VAS-30- $\frac{1}{8}$ -PUR-B
40	G $\frac{1}{4}$	6	1396092 VAS-40- $\frac{1}{4}$ -PUR-B
55	G $\frac{1}{4}$	8	1396095 VAS-55- $\frac{1}{4}$ -PUR-B
75	G $\frac{1}{4}$	10	1396096 VAS-75- $\frac{1}{4}$ -PUR-B
100	G $\frac{1}{4}$	12	1396098 VAS-100- $\frac{1}{4}$ -PUR-B
125	G $\frac{3}{8}$	14	1396108 VAS-125- $\frac{3}{8}$ -PUR-B

-  - VASB-...-SI to be discontinued  
Available until 2012

## Bellows suction cups VASB-...-NBR/SI

FESTO

Type codes

		VASB	-	30	-	1/8	-	NBR
<b>Type</b>								
VASB	Bellows suction cup							
<b>Suction cup diameter [mm]</b>								
8	8							
15	15							
30	30							
40	40							
55	55							
75	75							
100	100							
125	125							
<b>Vacuum port</b>								
M5	Thread M5							
1/8	Thread G1/8							
1/4	Thread G1/4							
3/8	Thread G3/8							
<b>Materials</b>								
NBR	Nitrile rubber							
SI	Silicone							

-  - Note

Possible combinations can be found  
in the ordering data.



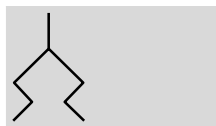
-  - VASB-...-SI to be discontinued  
Available until 2012



FESTO

## Bellows suction cups VASB-...-NBR/SI

Technical data

Function



-  - Diameter  
8 ... 125 mm
-  - Temperature range  
-40 ... +200 °C



General technical data									
Suction cup diameter	[mm]	8	15	30	40	55	75	100	125
Vacuum port		M5	G1/8	G1/8	G1/4	G1/4	G1/4	G1/4	G3/8
Nominal size	[mm]	2	3	3	4	4	4	4	7
Design		Round, bellows, 1.5 convolutions, vacuum port on top							
Type of mounting		Via vacuum port							
Mounting position		Any							
Breakaway force at 70% vacuum	[N]	1.6	7.9	34	56	106	197	397	606
Effective suction cup diameter	[mm]	5.5	12	25	32	44	60	85	105

Operating and environmental conditions		
Type	VASB-...-NBR	VASB-...-SI
Operating medium	Atmospheric air based on ISO 8573-1:2010 [7:-:-]	
Ambient temperature	[°C] -20 ... +80	-40 ... +200
Corrosion resistance class CRC <sup>1)</sup>	2	

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.

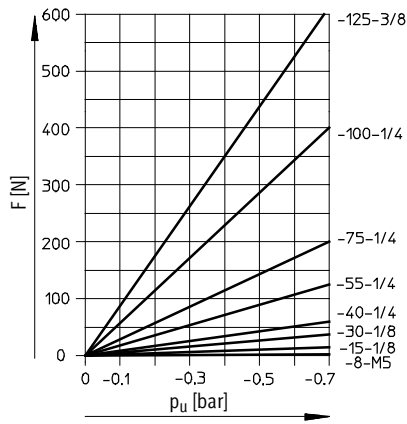
Materials		
Type	VASB-...-NBR	VASB-...-SI
Shore hardness	60	60 ±5
Suction cup	NBR	VMQ (silicone)
Threaded plug	Die-cast zinc (suction cup diameter 8 ... 100 mm) Wrought aluminium alloy (suction cup diameter 125 mm)	Wrought aluminium alloy
Note on materials	-	Contains PWIS (paint wetting impairment substances)

## Bellows suction cups VASB-...-NBR/SI

Technical data

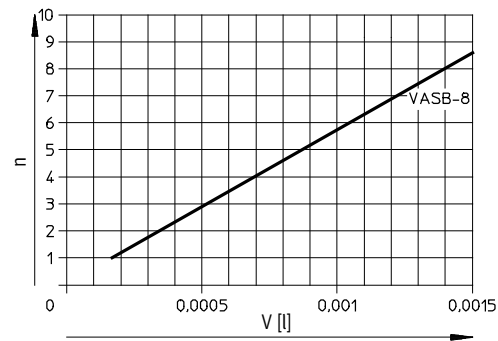
FESTO

Theoretical suction force F as a function of vacuum  $p_u$

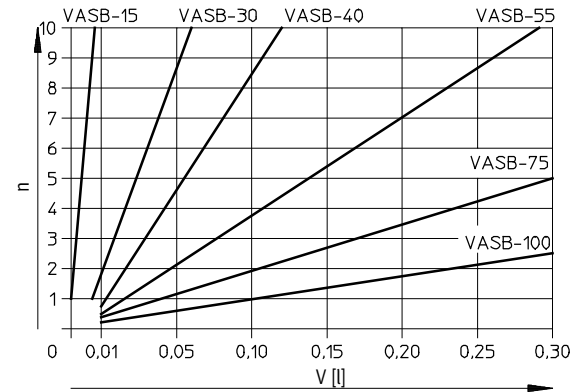


Suction cup volume

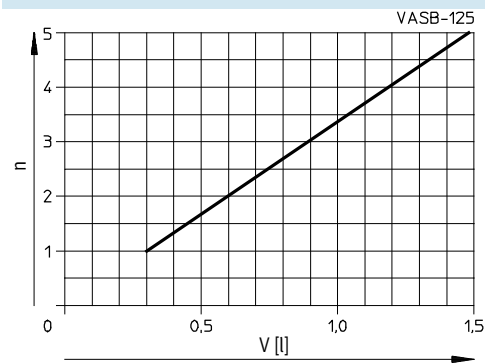
VASB-8



VASB-15 ... 100

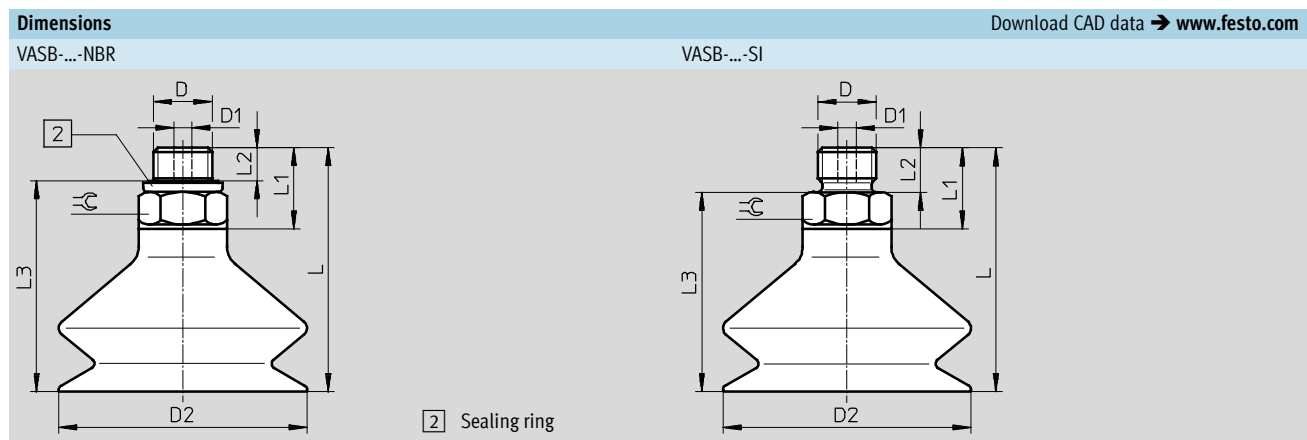


VASB-125



## Bellows suction cups VASB-...-NBR/SI

Technical data




Type	Connection D	D1 ∅	D2 ∅	L	L1	L2	L3	⌀
VASB-8-...-NBR	M5	2	8	22.5	11.5	3.55	18.95	8
VASB-15-...-NBR	G1/8	3	15	25.5	12	4.7	20.8	13
VASB-30-...-NBR	G1/8	3	30	34	12	4.7	29.3	13
VASB-40-...-NBR	G1/4	4	40	43	17	5.8	37.2	17
VASB-55-...-NBR	G1/4	4	55	52	17	5.8	46.2	17
VASB-75-...-NBR	G1/4	4	75	43.5	17	5.8	37.7	17
VASB-100-...-NBR	G1/4	4	100	43.5	17	5.8	37.7	17
VASB-125-...-NBR	G3/8	7	125	60	20	6	54	19
VASB-8-...-SI	M5	2	8	22.5	11.5	5	17.5	8
VASB-15-...-SI	G1/8	3	15	25.5	12	6.5	19	13
VASB-30-...-SI	G1/8	3	30	34	12	6.5	27.5	13
VASB-40-...-SI	G1/4	4	40	43	17	8	35	17
VASB-55-...-SI	G1/4	4	55	52	17	8	44	17
VASB-75-...-SI	G1/4	4	75	43.5	14	8	35.5	17
VASB-100-...-SI	G1/4	4	100	43.5	14	8	35.5	17
VASB-125-...-SI	G3/8	7	125	60	16.5	9	51	19

Ordering data								
Suction cup diameter [mm]	Vacuum port	Weight [g]	Part No.	Type				
8	M5	4	35410	VASB-8-M5-NBR				
15	G1/8	11	35411	VASB-15-1/8-NBR				
30	G1/8	15	35412	VASB-30-1/8-NBR				
40	G1/4	30	35413	VASB-40-1/4-NBR				
55	G1/4	42	35414	VASB-55-1/4-NBR				
75	G1/4	95	35415	VASB-75-1/4-NBR				
100	G1/4	170	35416	VASB-100-1/4-NBR				
125	G3/8	207	152609	VASB-125-3/8-NBR				
8	M5	2	160992	VASB-8-M5-SI				
15	G1/8	6	158977	VASB-15-1/8-SI				
30	G1/8	9	158978	VASB-30-1/8-SI				
40	G1/4	16	158979	VASB-40-1/4-SI				
55	G1/4	26	158980	VASB-55-1/4-SI				
75	G1/4	53	160993	VASB-75-1/4-SI				
100	G1/4	95	160994	VASB-100-1/4-SI				
125	G3/8	194	160995	VASB-125-3/8-SI				

## Suction cups VASB-...-SI-B/PUR-B, bellows

Type codes

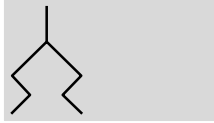
		VASB	-	30	-	1/8	-	PUR	-	B
<b>Type</b>										
VASB	Suction cup									
<b>Suction cup diameter [mm]</b>										
8	8									
15	15									
30	30									
40	40									
55	55									
75	75									
100	100									
125	125									
<b>Vacuum port</b>										
M5	Thread M5									
1/8	Thread G1/8									
1/4	Thread G1/4									
3/8	Thread G3/8									
<b>Materials</b>										
SI	VMQ (silicone)									
PUR	Polyurethane									
<b>Generation</b>										
B	B series									



 **Note**  
Possible combinations can be found in the ordering data.

## Suction cups VASB-...-SI-B/PUR-B, bellows

Technical data

Function



-  Diameter  
8 ... 125 mm
-  Temperature range  
-40 ... +200 °C



General technical data									
Suction cup diameter	[mm]	8	15	30	40	55	75	100	125
Vacuum port		M5	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$
Nominal size	[mm]	2	3	3	4	4	4	4	7
Design		Round, bellows, 1.5 convolutions							
Type of mounting		Via vacuum port							
Mounting position		Any							
Nominal operating pressure	[bar]	-0.7							
Holding force at nominal operating pressure -0.7 bar	[N]	SI: 2.6 PUR: 2.8	8.5	SI: 25 PUR: 34	65	110	SI: 228 PUR: 250	SI: 395 PUR: 450	570
Effective suction cup diameter	[mm]	SI: 6.8 PUR: 7.1	12.4	SI: 21.3 PUR: 24.8	34.4	44.7	SI: 64.4 PUR: 67.4	SI: 91.8 PUR: 90.5	101.8
Suction cup volume	[cm <sup>3</sup> ]	0.163	0.83	6.18	11.11	30.4	65.5	128.0	307.0

Operating and environmental conditions		
Type	VASB-...-SI-B	VASB-...-PUR-B
Operating pressure	[bar]	-0.95 ... 0
Operating medium		Atmospheric air based on ISO 8573-1:2010 [7:-:-]
Ambient temperature	[°C]	-40 ... +200
Corrosion resistance class CRC <sup>1)</sup>		2
Suitability for use in the food industry		As per manufacturer's declaration

1) Corrosion resistance class 2 according to Festo standard 940 070

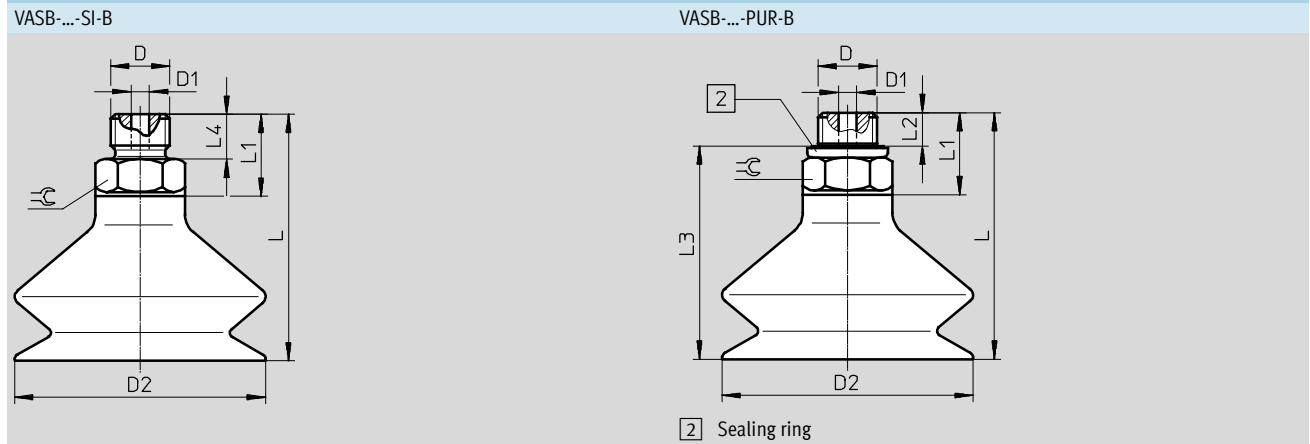
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Materials		
Type	VASB-...-SI-B	VASB-...-PUR-B
Shore hardness		60 ±5
Suction cup	VMQ (silicone) Colour: transparent	PUR Colour: blue
Threaded plug	Wrought aluminium alloy	Brass (suction cup diameter 8 ... 30 mm) Die-cast zinc (suction cup diameter 40 ... 125 mm)
Note on materials	RoHS-compliant Contains PWIS (paint wetting impairment substances)	-

# Suction cups VASB-...-SI-B/PUR-B, bellows

Technical data

Dimensions Download CAD data → [www.festo.com](http://www.festo.com)



Type	Connection D	D1 Ø	D2 Ø	L	L1	L2	L3	L4	⌀
VASB-8-...-SI-B	M5	2	8	22.5	11.5	-	-	4.3	8
VASB-30-...-SI-B	G1/8	3	30	34	12	-	-	6.5	13
VASB-75-...-SI-B	G1/4	4	75	43.7	14.2	-	-	8	17
VASB-100-...-SI-B	G1/4	4	100	43.7	14.2	-	-	8	17
VASB-8-...-PUR-B	M5	2	8	22.5	11.5	3.55	18.95	-	8
VASB-15-...-PUR-B	G1/8	3	15	25.5	12	4.7	20.8	-	13
VASB-30-...-PUR-B	G1/8	3	30	34	12	4.7	29.3	-	13
VASB-40-...-PUR-B	G1/4	4	40	43	17	5.8	37.2	-	17
VASB-55-...-PUR-B	G1/4	4	55	52	17	5.8	46.2	-	17
VASB-75-...-PUR-B	G1/4	4	75	43.5	17	5.8	37.7	-	17
VASB-100-...-PUR-B	G1/4	4	100	43.5	17	5.8	37.7	-	17
VASB-125-...-PUR-B	G3/8	7	125	60	20	6	54	-	19

Ordering data			
Suction cup diameter [mm]	Vacuum port	Weight [g]	Part No. Type
VMQ (silicone)			
8	M5	2	1394696 VASB-8-M5-SI-B
30	G1/8	7	1377637 VASB-30-1/8-SI-B
75	G1/4	78	1378427 VASB-75-1/4-SI-B
100	G1/4	132	1382277 VASB-100-1/4-SI-B
Polyurethane			
8	M5	3	1395637 VASB-8-M5-PUR-B
15	G1/8	3	1395671 VASB-15-1/8-PUR-B
30	G1/8	5	1395690 VASB-30-1/8-PUR-B
40	G1/4	6	1395691 VASB-40-1/4-PUR-B
55	G1/4	8	1396063 VASB-55-1/4-PUR-B
75	G1/4	10	1396064 VASB-75-1/4-PUR-B
100	G1/4	12	1396066 VASB-100-1/4-PUR-B
125	G3/8	14	1396067 VASB-125-3/8-PUR-B