



FIPA vacuum cups for the packaging industry



- > Wear-resistant vacuum cup materials are preferred in the packaging industry, as they need to be elastic and flexible enough for complex applications (such as forming cartons, palletizing, handling of goods packaged in films, etc.)
- > FIPA offers appropriate solutions for every packaging task



Bellows vacuum cups made of Vinyl (1.5 and 2.5 bellows)

- > Wear-resistant material
- > Flexible, soft sealing lips
- > Compensation for differences in height and gentle contact with the workpiece thanks to soft bellows

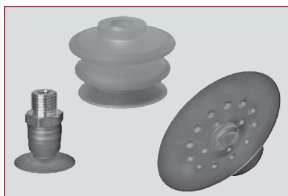
> [More information from page 124](#)



Flat and bellows vacuum cups (1.5 bellows) made of Tepuflex®

- > Optimized material combines the durability of plastic with the elasticity of rubber
- > Good lateral stability thanks to well thought-out design
- > Optimum grip thanks to high static friction of the material

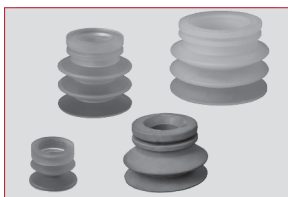
> [More information from page 130](#)



Flat and bellows vacuum cups (1.5 and 2.5 bellows) made of Vulkollan®

- > Long service life even under the highest loads thanks to high wear resistance of the material
- > Minimal abrasion: Service life many times higher than that of NBR
- > Ideal for products with an abrasive surface
- > Fast cycle times possible

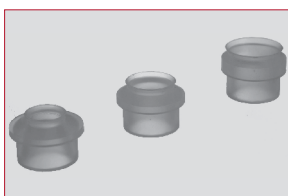
> [More information from page 139](#)



Bellows vacuum cups (1.5 and 2.5 bellows) with special connection for standard packaging machines

- > Soft, flexible sealing lip permits smooth contact with the product
- > Available in silicone and NR

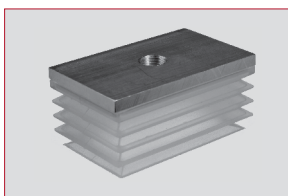
> [More information from page 142](#)



Flat vacuum "tube" cups made of Silicone

- > With straight and conical passage
- > Direct machine access via pipe mounting
- > Handling of cans or tubes

> [More information from page 144](#)



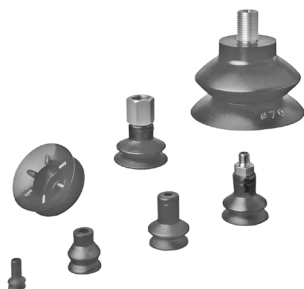
Rectangular bellows vacuum cups (2.5 and 3.5 bellows) made of Silicone

- > Handling of limp, flexible parts, workpieces with uneven surfaces or products with flexible outer packaging
- > Vacuum cup material in FDA-compliant quality
- > All vacuum cups are also optionally available with wire reinforcement for preventing the cup from puckering

> [More information from page 146](#)



Bellows vacuum cups, 1.5 bellows made of Vinyl – Series SBV 1



Product Description

Durable bellows vacuum cups with 1.5 bellows from snug-fitting, wear-resistant material. Very well suited for handling abrasive products such as cardboard. Flexible material enables low-leakage gripping of highly flexible products such as foil-packaged goods. Connection via plug nipple.

Advantage

- > Bellows compensates for differences in height and enables good adaptation to curved or uneven product surfaces
- > Flexible, soft lips
- > Long life cycle
- > Cost-effective replacement of worn seals

Technical Data

Item no.	Model / Lip dimensions		Number of bellows	Material / color
23.005.095._*	SBV 1-5	2	1,5	Vinyl (bl)
23.007.112._*	SBV 1-7	2	1,5	Vinyl (bl)
23.013.097._*	SBV 1-13	5	1,5	Vinyl (bl)
23.015.098._*	SBV 1-15	5	1,5	Vinyl (bl)
23.019.109._*	SBV 1-19	8	1,5	Vinyl (bl)
23.020.114._*	SBV 1-20	6	1,5	Vinyl (bl)
23.022.028._*	SBV 1-22	8	1,5	Vinyl (bl)
23.028.113._*	SBV 1-28	9	1,5	Vinyl (bl)
23.030.107._*	SBV 1-30	10,5	1,5	Vinyl (bl)
23.031.192._*	SBV 1-31	6	1,5	Vinyl (bl)
23.035.111._*	SBV 1-35	12	1,5	Vinyl (bl)
23.052.116._*	SBV 1-52	6	1,5	Vinyl (bl)
23.070.060._*	SBV 1-70	20	1,5	Vinyl (bl)

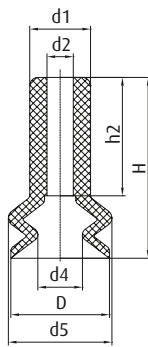
Accessories

Item no.	Suitable fittings					
	M5-male	M6-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
23.005.095._*	270.195 (p. 447)	--	--	--	--	--
23.007.112._*	270.001 (p. 447)	--	--	--	--	--
23.013.097._*	270.013 (p. 448)	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
23.015.098._*	270.134 (p. 447)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.019.109._*	--	--	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)
23.020.114._*	270.134 (p. 447)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.022.028._*	270.013 (p. 448)	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
23.028.113._*	270.134 (p. 447)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.030.107._*	--	270.312/19 (p. 452)	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)
23.031.192._*	--	270.312/19 (p. 452)	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)
23.035.111._*	270.443 (p. 448)	--	270.238 (p. 455)	270.110 (p. 460)	270.534 (p. 463)	--
23.052.116._*	--	--	270.132 (p. 455)	--	270.208 (p. 464)	270.452 (p. 470)
23.070.060._*	--	--	--	--	270.184 (p. 470)	--

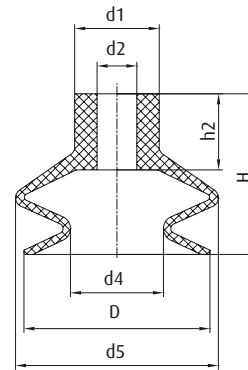
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



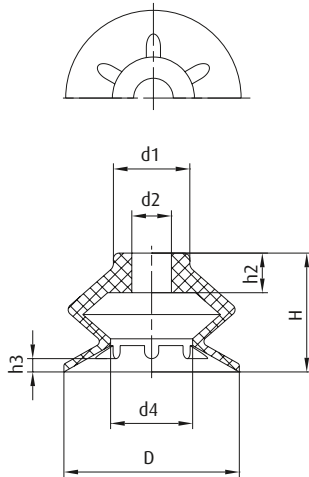
Dimensions



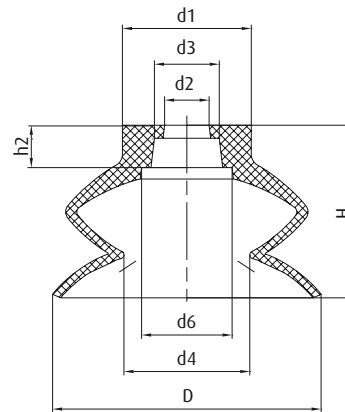
Ø 4,5 | 6 mm



Ø 13 | 15,5 | 19 | 20 | 22 | 28 | 30 | 35 | 51 mm



Ø 31 mm



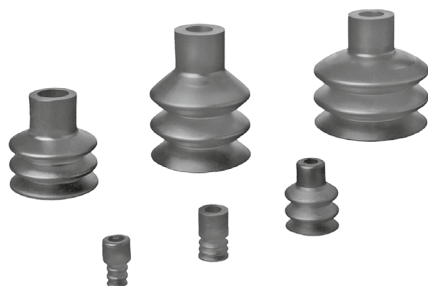
Ø 70 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	Ø d5 [mm]	Ø d6 [mm]	H [mm]	h2 [mm]	h3 [mm]
23.005.095._*	4,5	3	1,5	--	2,5	4	--	12,5	10	--
23.007.112._*	6	3,7	1,6	--	2,5	6,5	--	11	7	--
23.013.097._*	13	7,5	3,5	--	7,5	12,5	--	14,5	6,5	--
23.015.098._*	15,5	9	3,4	--	8,5	17	--	20,5	11,5	--
23.019.109._*	19	13	7	--	12	19	--	18	7,5	--
23.020.114._*	20	9,5	3,5	--	11	19	--	20	9,5	--
23.022.028._*	22	10	4,5	--	11	24	--	19	9	--
23.028.113._*	28	12,5	3,5	--	13	26	--	21	9	--
23.030.107._*	30	13	7	--	15	29,5	--	22	7	--
23.031.192._*	31	13,5	7	--	14,5	--	--	21	7	2,4
23.035.111._*	35	17	6	--	20	33	--	30	16	--
23.052.116._*	51	18,5	9,5	--	30	50	--	41	21	--
23.070.060._*	70	34	11,5	17	33	--	24	45	11	--

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Bellows vacuum cups, 2.5 bellows made of Vinyl – Series SBV 2



Product Description

Durable bellows vacuum cups with a long stroke, made of snug-fitting, wear-resistant material. Very well suited for handling abrasive products such as cardboard. Flexible material enables low-leakage gripping of highly flexible products such as foil-packaged goods. Connection via plug nipple.

Advantage

- > Long vacuum cup stroke and good adaptation to curved or uneven product surfaces
- > Flexible, soft lips
- > Long life cycle
- > Cost-effective replacement of worn seals

Technical Data

Item no.	Model / Lip dimensions		Number of bellows	Material / color
21.004.142._*	SBV 2-4	1,3	2,5	Vinyl (bl)
21.006.001._*	SBV 2-6	3,5	2,5	Vinyl (bl)
21.010.070._*	SBV 2-10	5	2,5	Vinyl (bl)
21.018.068._*	SBV 2-18	11	2,5	Vinyl (bl)
21.023.066._*	SBV 2-23	9	2,5	Vinyl (bl)
21.029.069._*	SBV 2-29	10	2,5	Vinyl (bl)
21.031.145._*	SBV 2-31	17	2,5	Vinyl (bl)
21.032.082._*	SBV 2-32	14	2,5	Vinyl (bl)
21.040.027._*	SBV 2-40	16	2,5	Vinyl (bl)
21.050.084._*	SBV 2-50	20	2,5	Vinyl (bl)

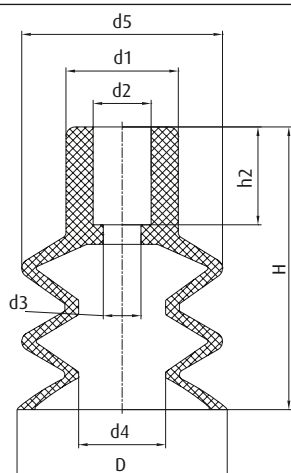
Accessories

Item no.	 Suitable fittings						
	M5-male	M6-male	M10-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
21.004.142._*	270.195 (p. 447)	--	--	--	--	--	--
21.006.001._*	270.013 (p. 448)	270.103 (p. 451)	--	270.003 (p. 455)	270.015 (p. 459)	--	--
21.010.070._*	270.013 (p. 448)	270.103 (p. 451)	--	270.003 (p. 455)	270.015 (p. 459)	--	--
21.018.068._*	270.013 (p. 448)	270.103 (p. 451)	--	270.003 (p. 455)	270.015 (p. 459)	270.194 (p. 463)	--
21.023.066._*	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)
21.029.069._*	--	--	--	270.132 (p. 455)	270.114 (p. 460)	270.043 (p. 463)	270.178 (p. 470)
21.031.145._*	--	270.312/19 (p. 452)	--	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)
21.032.082._*	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)
21.040.027._*	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)
21.050.084._*	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)

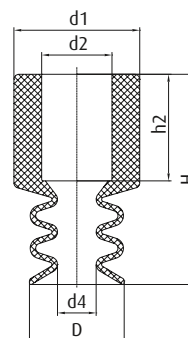
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



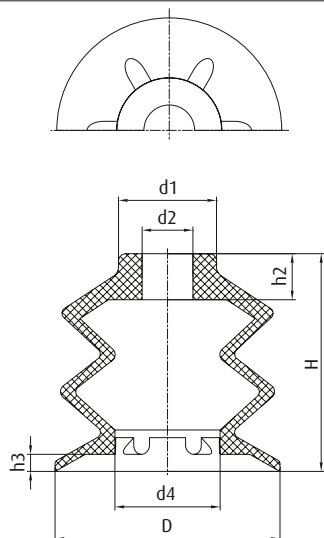
Dimensions



Ø 3,5 | 19 | 23 | 29 | 32 | 40 | 50 mm



Ø 6,5 | 10 mm



Ø 31 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	Ø d5 [mm]	H [mm]	h2 [mm]	h3 [mm]
21.004.142._*	3,5	3	1,5	1,5	2	4,5	12,5	9	--
21.006.001._*	6,5	8,5	5	--	2,5	--	14	7	--
21.010.070._*	10	10	5	--	5	--	15,5	7,5	--
21.018.068._*	19	10	5	5	9	19	24	9	--
21.023.066._*	23	17	11	11	13,5	23	26	12	--
21.029.069._*	29	15,5	8	5	12	28	39	13,5	--
21.031.145._*	31	13,5	7	--	14,5	--	30	6,5	2,4
21.032.082._*	32	17	11	11	19,5	32	35	14	--
21.040.027._*	40	20	10,5	8	18,5	40	53	13,5	--
21.050.084._*	50	19,5	10,5	6,5	30	50	49	13,5	--

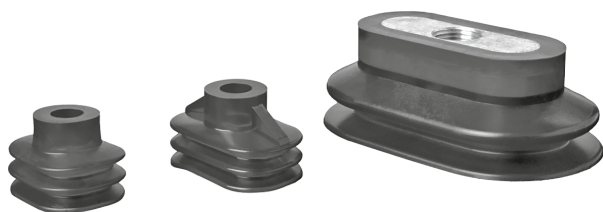
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



This image shows a full page of white paper with horizontal grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook or legal stationery. There are no margins, text, or other markings on the page.



Oval bellows vacuum cups made of Vinyl – Series SO-BV



Product Description

Durable oval vacuum cup with height adjustment made of snug-fitting, wear-resistant material. Very well suited for handling abrasive products such as cardboard. Flexible material enables low-leakage gripping of highly flexible products such as foil-packaged goods. Connection via plug nipple or vulcanized carrier plate

Advantage

- > Significantly increased suction force compared to round vacuum cups of the same width
- > Bellows compensates for differences in height and enables good adaptation to curved or uneven product surfaces
- > Flexible, soft lips
- > Long life cycle

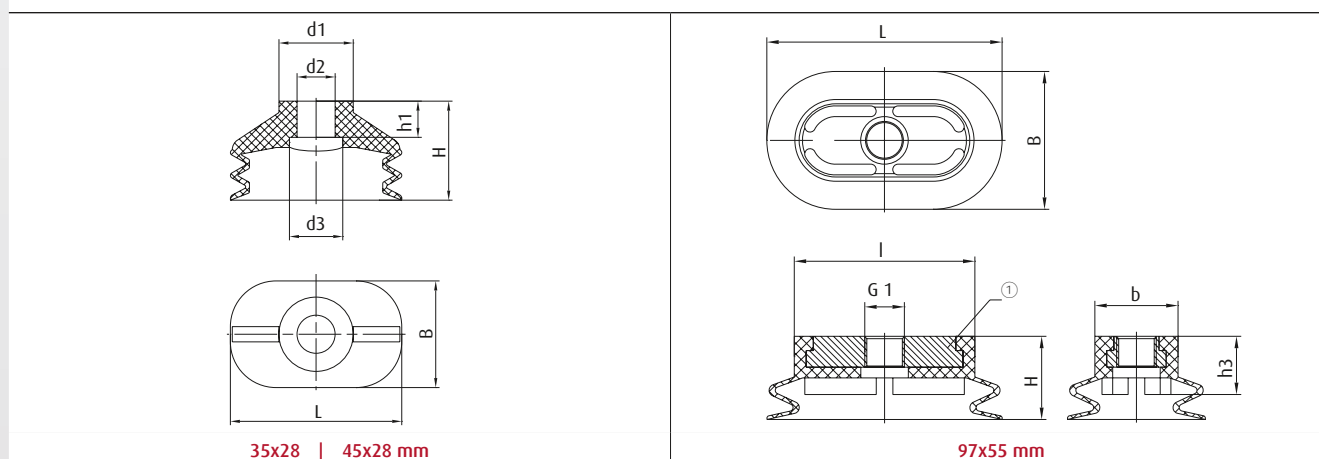
Technical Data

Item no.	Model / Lip dimensions		Number of bellows	Material / color
138.35x28.001._*	SO-BV-35x28	9	2,5	Vinyl (bl)
138.45x28.013._*	SO-BV-45x28	9	2,5	Vinyl (bl)
130.97x55.126._*	SO-BV-100x55	11	1,5	Vinyl (bl)

Accessories

Item no.	 Suitable fittings		
	M10-male	G1/4-male	G1/4-female
138.35x28.001._*	270.177 (p. 454)	270.451 (p. 464)	270.452 (p. 470)
138.45x28.013._*	270.177 (p. 454)	270.451 (p. 464)	270.452 (p. 470)
130.97x55.126._*	--	--	--

Dimensions



① = Aluminum

Item no.	L [mm]	B [mm]	l [mm]	b [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	G1	H [mm]	h1 [mm]	h3 [mm]
138.35x28.001._*	35	28	--	--	19,5	10	14	--	24	8,5	--
138.45x28.013._*	45	28	--	--	19,5	10	14	--	26	9,5	--
130.97x55.126._*	99	58	76	35	--	--	--	G3/8	35	--	25

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Flat vacuum cups made of Tepuflex®, modular – Series SP-FA

NEW



Product Description

Universal flat vacuum cup with cleats. The newly developed material Tepuflex® combines the elasticity of rubber with the durability of plastic. It comes in a hardness of 50° Shore A. Version: Replacement sealing lip for attachment to fitting

Advantage

- > High suction force
- > Very resistant to wear
- > Fast cycle times possible
- > Compatible with established products from other vendors

Technical Data

Item no.	Model / Lip dimensions		Material / color	Accessories
125.020.004._*	SP-FA-20	1	Tepuflex® (or)	Retaining ring
125.025.007._*	SP-FA-25	1	Tepuflex® (or)	78.011 (p. 513)
125.030.010._*	SP-FA-30	2	Tepuflex® (or)	78.011 (p. 513)
125.040.013._*	SP-FA-40	2	Tepuflex® (or)	78.012 (p. 513)
125.050.017._*	SP-FA-50	2,5	Tepuflex® (or)	78.013 (p. 513)
154.078.027._*	SP-FA-75	3	Tepuflex® (or)	--
154.113.028._*	SP-FA-110	5	Tepuflex® (or)	--
154.155.026._*	SP-FA-150	5	Tepuflex® (or)	--

Ordering notes

Explanation of the ending of the accessory fitting:

- > S: with screen
- > DRV: with one-way flow control valve
- > SDRV: with screen and one-way flow control valve

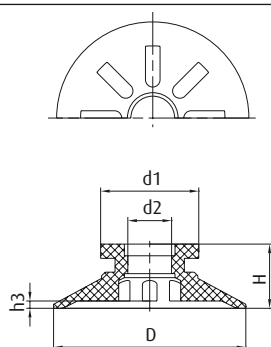
Accessories

Item no.	Suitable fittings								
	M5-female	G1/8-male	G1/8-female	NPSF1/8-female	G1/4-male	G3/8-male	G3/8-female	G1/2-female	G3/4-female
Details from page	451	456	462	462	467	473	475	475	476
125.020.004._*	270.500-DRV, 270.500-S	270.250, 270.503-S, 270.503-SDRV	--	--	--	--	--	--	--
125.025.007._*	270.500-DRV, 270.500-S	270.250, 270.503-S, 270.503-SDRV	--	--	--	--	--	--	--
125.030.010._*	270.500-DRV, 270.500-S	270.250, 270.503-S, 270.503-SDRV	--	--	--	--	--	--	--
125.040.013._*	--	--	270.251	270.501-DRV, 270.501-S	270.506-S, 270.506-SDRV	270.505-S, 270.505-SDRV	--	--	--
125.050.017._*	--	--	270.252	270.502-DRV, 270.502-S	270.504-S, 270.504-SDRV	270.507-S, 270.507-SDRV	--	--	--
154.078.027._*	--	--	270.527-S	--	--	--	270.528-S	270.529-S	--
154.113.028._*	--	--	--	--	--	--	270.530-S	270.531-S	--
154.155.026._*	--	--	--	--	--	--	--	270.532-S	270.533-S
Details from page	451	456	462	462	467	473	475	475	476

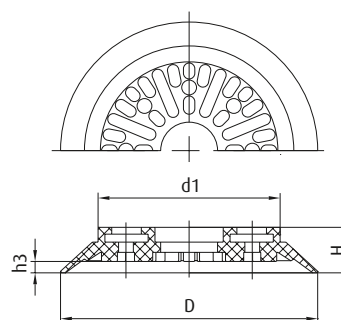
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Dimensions



Ø 22 | 28 | 32 | 42 | 53 mm



Ø 78 | 113 | 155 mm

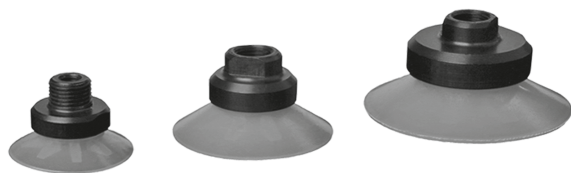
Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	H [mm]	h3 [mm]
125.020.004._*	22	14,5	5,5	8	0,9
125.025.007._*	28	14	5,5	9	1
125.030.010._*	32	14,5	6,5	10,5	1,2
125.040.013._*	42	20	7	13,5	2,1
125.050.017._*	53	27	12	17,5	2
154.078.027._*	78	55	--	13	3
154.113.028._*	113	80	--	20	5
154.155.026._*	155	109	--	24	5

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Flat vacuum cups made of Tepuflex®, with fitting – Series SP-FA

NEW



Product Description

Universal flat vacuum cup with cleats. The newly developed material Tepuflex® combines the elasticity of rubber with the durability of plastic. It comes in a hardness of 50° Shore A. Version: Complete with vacuum cup fitting and sieve.

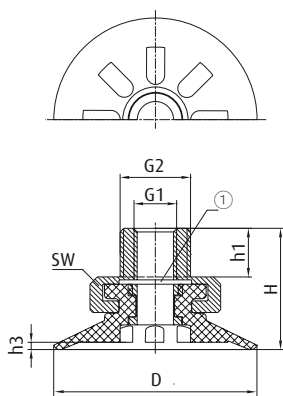
Advantage

- > High suction force
- > Very resistant to wear
- > Fast cycle times possible
- > Compatible with established products from other vendors

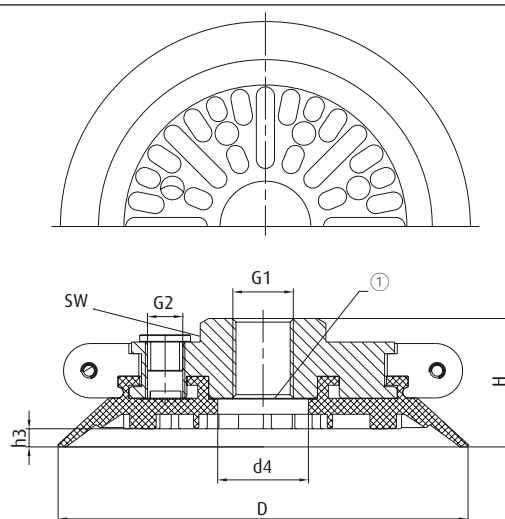
Technical Data

Item no.	Model / Lip dimensions	Connection thread		Material / color	Accessories
					Spare cup
123.020.003._*	SP-FA-20	G1/8-male, M5-female	1	Tepuflex® (or)	125.020.004._* (p. 249)
123.025.010._*	SP-FA-25	G1/8-male, M5-female	1	Tepuflex® (or)	125.025.007._* (p. 261)
123.030.019._*	SP-FA-30	G1/8-male, M5-female	2	Tepuflex® (or)	125.030.010._* (p. 267)
123.040.028._*	SP-FA-40	G1/8-female	2	Tepuflex® (or)	125.040.013._* (p. 279)
123.050.034._*	SP-FA-50	G1/8-female	2,5	Tepuflex® (or)	125.050.017._* (p. 286)
152.078.133._*	SP-FA-75	G1/8-female	3	Tepuflex® (or)	154.078.027._* (p. 296)
152.078.136._*	SP-FA-75	G3/8-female	3	Tepuflex® (or)	154.078.027._* (p. 296)
152.078.139._*	SP-FA-75	G1/2-female	3	Tepuflex® (or)	154.078.027._* (p. 296)
152.113.134._*	SP-FA-110	G3/8-female	5	Tepuflex® (or)	154.113.028._* (p. 305)
152.113.137._*	SP-FA-110	G1/2-female	5	Tepuflex® (or)	154.113.028._* (p. 305)
152.155.135._*	SP-FA-150	G1/2-female	5	Tepuflex® (or)	154.155.026._* (p. 312)
152.155.138._*	SP-FA-150	G3/4-female	5	Tepuflex® (or)	154.155.026._* (p. 312)

Dimensions



Ø 22 | 28 | 32 | 42 | 53 mm



Ø 78 | 113 | 155 mm

① = Filter screen

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Item no.	Ø D [mm]	Ø d4 [mm]	G1	G2	H [mm]	h1 [mm]	h3 [mm]	SW
123.020.003.*	22	--	M5	G1/8	15,5	6,5	0,9	17
123.025.010.*	28	--	M5	G1/8	16,5	6,5	1	17
123.030.019.*	32	--	M5	G1/8	18	6,5	1,2	17
123.040.028.*	42	--	G1/8	--	22	--	2,1	12
123.050.034.*	53	--	G1/8	--	26	--	2	12
152.078.133.*	78	10	G1/8	--	26	--	3	28
152.078.136.*	78	10	G3/8	--	26	--	3	28
152.078.139.*	78	10	G1/2	--	26	--	3	28
152.113.134.*	113	25	G3/8	G1/8	35	--	5	30
152.113.137.*	113	25	G1/2	G1/8	35	--	5	30
152.155.135.*	155	25	G1/2	G1/8	38	--	5	38
152.155.138.*	155	25	G3/4	G1/8	38	--	5	38

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Bellows vacuum cups, 1.5 bellows made of Tepuflex®, modular – Series SP-B1

NEW



Product Description

Universal bellows vacuum cups with 1.5 bellows for handling sensitive or uneven products. The newly developed material Tepuflex® combines the elasticity of rubber with the durability of plastic. It comes in a hardness of 50° Shore A. Version: Replacement sealing lip for attachment to fitting

Advantage

- > High suction force
- > Very resistant to wear
- > Fast cycle times possible
- > Compatible with established products from other vendors

Technical Data

Item no.	Model / Lip dimensions		Number of bellows	Material / color
23.020.026._*	SP-B1-20	9	1,5	Tepuflex® (or)
23.030.037._*	SP-B1-30	9	1,5	Tepuflex® (or)
23.040.045._*	SP-B1-40	9	1,5	Tepuflex® (or)
23.050.054._*	SP-B1-50	12	1,5	Tepuflex® (or)
23.078.065._*	SP-B1-75	22	1,5	Tepuflex® (or)
23.117.069._*	SP-B1-110	29	1,5	Tepuflex® (or)
23.160.072._*	SP-B1-150	41	1,5	Tepuflex® (or)

Accessories

Filter disc	Retaining ring
78.200 (p. 512)	78.011 (p. 513)
78.201 (p. 512)	78.011 (p. 513)
78.202 (p. 512)	78.012 (p. 513)
78.203 (p. 512)	78.013 (p. 513)
--	--
--	--
--	--

Ordering notes

Explanation of the ending of the accessory fitting:

- > S: with screen
- > DRV: with one-way flow control valve
- > SDRV: with screen and one-way flow control valve

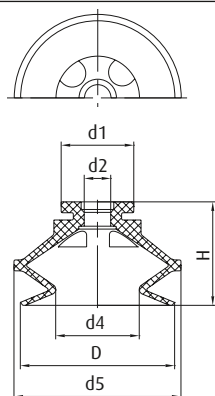
Accessories

Item no.	Suitable fittings								
	M5-female	G1/8-male	G1/8-female	NPSF1/8-female	G1/4-male	G3/8-male	G3/8-female	G1/2-female	G3/4-female
Details from page	451	456	462	462	467	473	475	475	476
23.020.026._*	270.500-DRV, 270.500-S	270.250, 270.503-S, 270.503-SDRV	--	--	--	--	--	--	--
23.030.037._*	270.500-DRV, 270.500-S	270.250, 270.503-S, 270.503-SDRV	--	--	--	--	--	--	--
23.040.045._*	--	--	270.251	270.501-DRV, 270.501-S	270.506-S, 270.506-SDRV	270.505-S, 270.505-SDRV	--	--	--
23.050.054._*	--	--	270.252	270.502-DRV, 270.502-S	270.504-S, 270.504-SDRV	270.507-S, 270.507-SDRV	--	--	--
23.078.065._*	--	--	270.527-S	--	--	--	270.528-S	270.529-S	--
23.117.069._*	--	--	--	--	--	--	270.530-S	270.531-S	--
23.160.072._*	--	--	--	--	--	--	--	270.532-S	270.533-S
Details from page	451	456	462	462	467	473	475	475	476

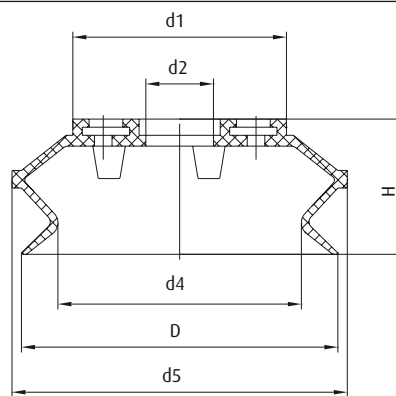
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Dimensions



Ø 21 | 33 | 43 | 53 mm



Ø 81 | 117 | 160 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d4 [mm]	Ø d5 [mm]	H [mm]
23.020.026._*	21	14,5	5,5	11	24	19,5
23.030.037._*	33	15	5,5	18,5	37	28
23.040.045._*	43	20	7,5	23	46	29
23.050.054._*	53	26	10,5	32	58	35
23.078.065._*	81	55	10	59	84	37
23.117.069._*	117	79	25	90	124	50
23.160.072._*	160	110	24	112	166	67

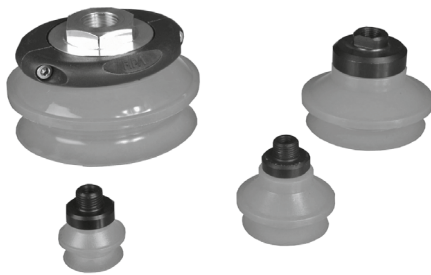
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.



Bellows vacuum cups, 1.5 bellows made of Tepuflex®, with fitting – Series SP-B1



NEW

Product Description

Universal bellows vacuum cup with 1.5 bellows for handling sensitive or uneven products. The newly developed material Tepuflex® combines the elasticity of rubber with the durability of plastic. It comes in a hardness of 50° Shore A. Version: Complete with vacuum cup fitting and filter screen.

Advantage

- > High suction force
- > Very resistant to wear
- > Fast cycle times possible
- > Compatible with established products from other vendors

Technical Data

Item no.	Model / Lip dimensions	Connection thread		Number of bellows	Material / color
22.020.020._*	SP-B1-20	G1/8-male, M5-female	9	1,5	Tepuflex® (or)
22.030.033._*	SP-B1-30	G1/8-male, M5-female	9	1,5	Tepuflex® (or)
22.040.045._*	SP-B1-40	G1/8-female	9	1,5	Tepuflex® (or)
22.050.056._*	SP-B1-50	G1/8-female	12	1,5	Tepuflex® (or)
22.078.163._*	SP-B1-75	G1/8-female	22	1,5	Tepuflex® (or)
22.078.166._*	SP-B1-75	G3/8-female	22	1,5	Tepuflex® (or)
22.078.169._*	SP-B1-75	G1/2-female	22	1,5	Tepuflex® (or)
22.117.164._*	SP-B1-110	G3/8-female	29	1,5	Tepuflex® (or)
22.117.167._*	SP-B1-110	G1/2-female	29	1,5	Tepuflex® (or)
22.160.165._*	SP-B1-150	G1/2-female	41	1,5	Tepuflex® (or)
22.160.168._*	SP-B1-150	G3/4-female	41	1,5	Tepuflex® (or)

Accessories

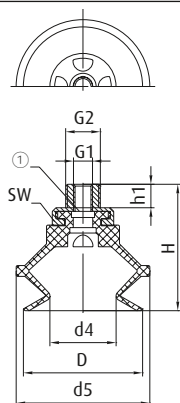
Spare cup	Filter disc
23.020.026._* (p. 354)	78.200 (p. 512)
23.030.037._* (p. 364)	78.201 (p. 512)
23.040.045._* (p. 373)	78.202 (p. 512)
23.050.054._* (p. 379)	78.203 (p. 512)
23.078.065._* (p. 387)	--
23.078.065._* (p. 387)	--
23.078.065._* (p. 387)	--
23.117.069._* (p. 392)	--
23.117.069._* (p. 392)	--
23.160.072._* (p. 395)	--
23.160.072._* (p. 395)	--

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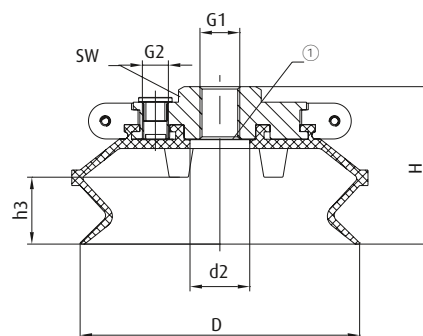
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Dimensions



Ø 21 | 33 | 43 | 53 mm



Ø 81 | 117 | 160 mm

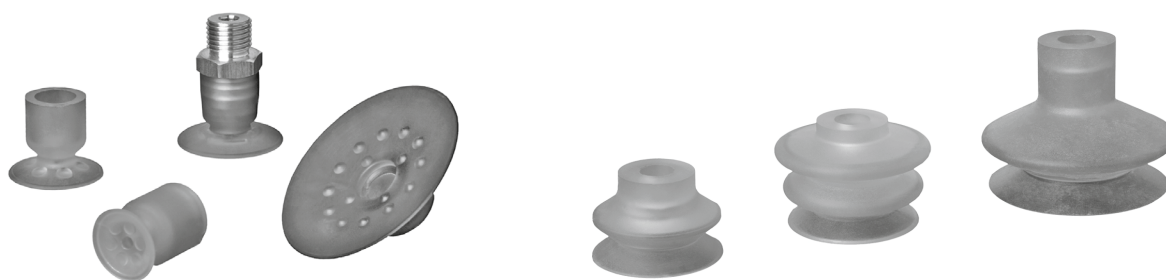
① = Filter screen

Item no.	Ø D [mm]	Ø d2 [mm]	Ø d4 [mm]	Ø d5 [mm]	G1	G2	H [mm]	h1 [mm]	h3 [mm]	SW
22.020.020._*	21	--	11	24	M5	G1/8	27	6,5	--	17
22.030.033._*	33	--	18,5	37	M5	G1/8	35	6,5	--	17
22.040.045._*	43	--	23	46	G1/8	--	35	--	--	12
22.050.056._*	53	--	32	58	G1/8	--	42	--	--	12
22.078.163._*	81	10	--	--	G1/8	--	50	--	21,6	28
22.078.166._*	81	10	--	--	G3/8	--	50	--	21,6	28
22.078.169._*	81	10	--	--	G1/2	--	50	--	21,6	28
22.117.164._*	117	25	--	--	G3/8	G1/8	66	--	28	30
22.117.167._*	117	25	--	--	G1/2	G1/8	66	--	28	30
22.160.165._*	160	24	--	--	G1/2	G1/8	81,5	--	42	38
22.160.168._*	160	24	--	--	G3/4	G1/8	81,5	--	42	38

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Vacuum cups made of Vulkollan® – Series SV-VU



Product Description

Extremely rugged flat and bellows vacuum cups made of Vulkollan® in a design specifically coordinated to the needs of the packaging industry.

Advantage

- > Minimal abrasion
- > Very long life cycle
- > Very good resetting, enabling fast cycle times
- > Bellows compensate differences in height and enable good adaptation to curved or uneven product surfaces
- > Cost-effective replacement of worn seals

Technical Data

Item no.	Model / Lip dimensions		Material / color	Number of bellows
Flat vacuum cups – Series SV-VUF (pipe mounting)				
102.017.193._*	SV-VUF-17	0,7	Vulkollan® (br)	--
102.025.192._*	SV-VUF-25	3	Vulkollan® (br)	--
102.030.215._*	SV-VUF-30	2	Vulkollan® (br)	--
Flat vacuum cups – Series SV-VUF				
102.030.322._*	SV-VUF-30A	2	Vulkollan® (br)	--
102.050.433._*	SV-VUF-50	3	Vulkollan® (br)	--
Bellows vacuum cups, 1.5 bellows – Series SV-VUB1				
23.020.121._*	SV-VUB1-20	5	Vulkollan® (br)	1,5
23.030.193._*	SV-VUB1-30	8	Vulkollan® (br)	1,5
23.049.199._*	SV-VUB1-50	20	Vulkollan® (br)	1,5
Bellows vacuum cups, 2.5 bellows – Series SV-VUB2				
27.034.003._*	SV-VUB2-34	18	Vulkollan® (br)	2,5

Accessories

Item no.	 Suitable fittings							
	M5-male	M6-male	M8-male	M10-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
Flat vacuum cups – Series SV-VUF (pipe mounting)								
102.017.193._*	--	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)
102.025.192._*	--	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)
102.030.215._*	--	--	--	270.177 (p. 454)	--	--	270.451 (p. 464)	270.452 (p. 470)
Flat vacuum cups – Series SV-VUF								
102.030.322._*	270.094 (p. 449)	--	--	--	270.095 (p. 456)	270.096 (p. 460)	--	--
102.050.433._*	--	--	--	--	270.112 (p. 458)	270.114 (p. 460)	270.043 (p. 463)	270.178 (p. 470)

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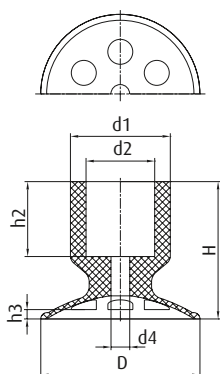
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



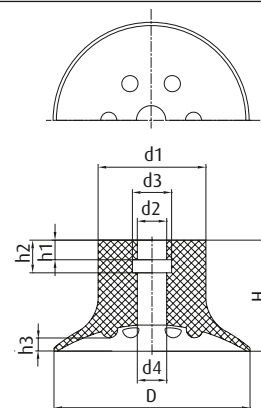
Accessories

Item no.	Suitable fittings							
	M5-male	M6-male	M8-male	M10-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
Bellows vacuum cups, 1.5 bellows – Series SV-VUB1								
23.020.121._*	270.311 (p. 449)	270.312/19 (p. 452)	--	--	270.480 (p. 458)	270.479 (p. 461)	--	--
23.030.193._*	--	--	270.255 (p. 453)	--	270.486 (p. 458)	270.485 (p. 461)	270.487 (p. 468)	270.488 (p. 473)
23.049.199._*	--	--	--	--	--	--	270.213 (p. 467)	270.356 (p. 472)
Bellows vacuum cups, 2.5 bellows – Series SV-VUB2								
27.034.003._*	--	--	--	--	270.482 (p. 458)	270.481 (p. 461)	270.483 (p. 468)	270.484 (p. 472)

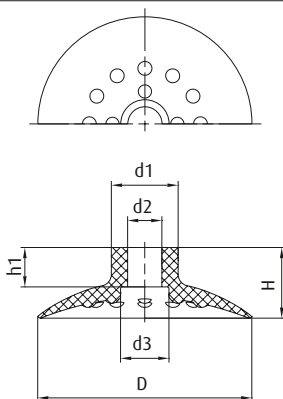
Dimensions



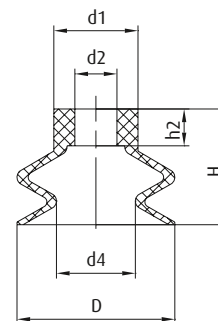
Flat vacuum cups – Series SV-VUF (pipe mounting)
Ø 17 | 26 | 30 mm



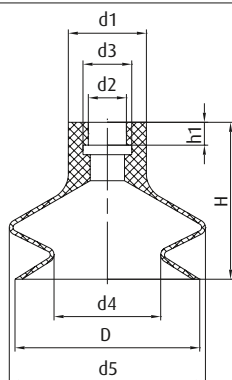
Flat vacuum cups – Series SV-VUF
Ø 30 mm



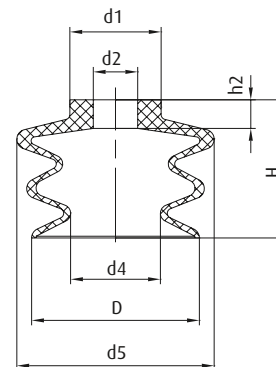
Flat vacuum cups – Series SV-VUF
Ø 50 mm



Bellows vacuum cups, 1.5 bellows – Series SV-VUB1
Ø 20 | 30 mm



Bellows vacuum cups, 1.5 bellows – Series SV-VUB1
Ø 49 mm



Bellows vacuum cups, 2.5 bellows – Series SV-VUB2
Ø 34 mm

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	Ø d5 [mm]	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]
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Flat vacuum cups – Series SV-VUF (pipe mounting)

102.017.193._*	17	16	11	--	3	--	22	--	12	0,7
102.025.192._*	26	16	11	--	3	--	22	--	12	1,5
102.030.215._*	30	16	11	--	3	--	22	--	12	1,4

Flat vacuum cups – Series SV-VUF

102.030.322._*	30	16,5	4,5	6	--	--	17	3	5	2
102.050.433._*	50	15,5	8	11,5	--	--	16,5	9	--	--

Bellows vacuum cups, 1.5 bellows – Series SV-VUB1

23.020.121._*	20	16	7	--	9,5	--	17,5	--	5,5	--
23.030.193._*	30	16	8	--	15	--	22	--	7	--
23.049.199._*	49	21	10	13	28	51	41	6	--	--

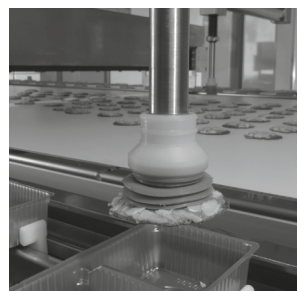
Bellows vacuum cups, 2.5 bellows – Series SV-VUB2

27.034.003._*	34	18,5	9	--	18	40	28	--	5,8	--
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* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Bellows vacuum cups, 1.5 and 2.5 bellows – Series SV-VB



Product Description

Bellows vacuum cups, 1.5 and 2.5 folds, for standard packaging machines. Soft, flexible sealing lip for smooth contact with the product. FDA-compliant materials (SI)

Advantage

> Gentle handling of sensitive products

Technical Data

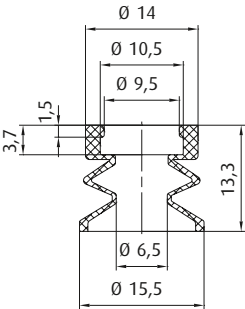
Item no.	Model / Lip dimensions		Number of bellows	Material / color
Bellows vacuum cups, 1.5 bellows – Series SV-SB1				
23.016.232._*	SV-SB1-16	6	1,5	SI (tr)
23.030.230._*	SV-SB1-30	7	1,5	NR (gr)
Bellows vacuum cups, 2.5 bellows – Series SV-SB2				
21.030.030._*	SV-SB2-30	13	2,5	SI (tr), NR (bl)
21.040.132._*	SV-SB2-40	--	2,5	SI (tr), SI (bl)

Accessories

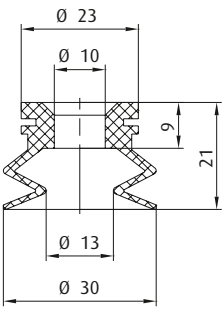
Item no.	Suitable fittings				
	M5-male	M6-male	M10-male	G1/4-male	G1/4-female
Bellows vacuum cups, 1.5 bellows – Series SV-SB1					
23.016.232._*	270.311 (p. 449)	270.312/19 (p. 452)	--	--	--
23.030.230._*	--	--	270.177 (p. 454)	270.451 (p. 464)	270.452 (p. 470)
Bellows vacuum cups, 2.5 bellows – Series SV-SB2					
21.030.030._*	--	--	270.177 (p. 454)	270.451 (p. 464)	270.452 (p. 470)
21.040.132._*	--	--	--	--	--

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.

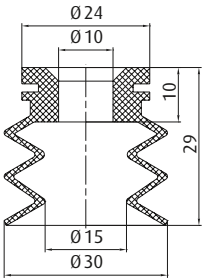
Dimensions



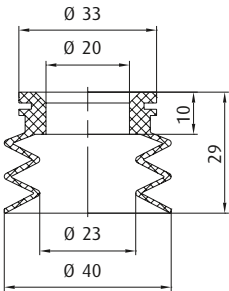
Bellows vacuum cups, 1.5 bellows – Series SV-SB1
Ø 15,5 mm



Bellows vacuum cups, 1.5 bellows – Series SV-SB1
Ø 30 mm



Bellows vacuum cups, 2.5 bellows – Series SV-SB2
Ø 30 mm

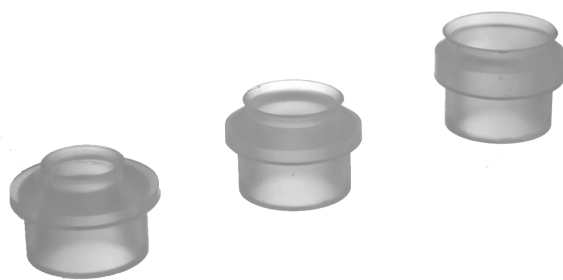


Bellows vacuum cups, 2.5 bellows – Series SV-SB2
Ø 40 mm

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Vacuum cups for handling tubes – Series SV-T



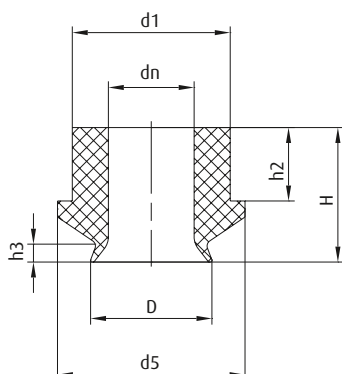
Product Description

Special seals for pipe mounting

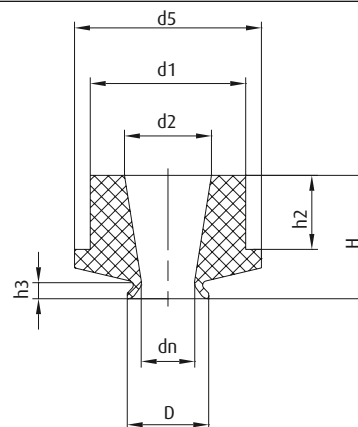
Technical Data

Item no.	Model / Lip dimensions	Material / color
With straight passage – Series SV-TG		
107.019.076._*	SV-TG-19	SI (tr)
107.019.112._*	SV-TG-20	SI (tr)
107.022.107._*	SV-TG-22	SI (tr)
107.025.109._*	SV-TG-25	SI (tr)
107.026.111._*	SV-TG-26	SI (tr)
107.028.108._*	SV-TG-28	SI (tr)
107.032.113._*	SV-TG-32	SI (tr)
107.037.114._*	SV-TG-37	SI (tr)
107.045.115._*	SV-TG-46	SI (tr)
With conical passage – Series SV-TK		
107.011.103._*	SV-TK-11	SI (tr)
107.012.106._*	SV-TK-12	SI (tr)
107.013.101._*	SV-TK-13	SI (tr)
107.013.105._*	SV-TK-13A	SI (tr)
107.015.102._*	SV-TK-15	SI (tr)
107.017.066._*	SV-TK-17	SI (tr)
107.018.104._*	SV-TK-18	SI (tr)

Dimensions



With straight passage – Series SV-TG



With conical passage – Series SV-TK

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.

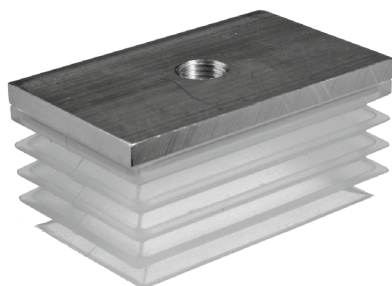


Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d5 [mm]	Ø dn [mm]	H [mm]	h2 [mm]	h3 [mm]
With straight passage – Series SV-TG								
107.019.076.*	18,5	25	--	30	14	21	12	2,2
107.019.112.*	19,5	25	--	30	14	22	12	2,9
107.022.107.*	22	25	--	30	17	21,5	12	2,5
107.025.109.*	25	25	--	31	17	22	12	2,6
107.026.111.*	26	25	--	30	17	23	12	5,5
107.028.108.*	28	25	--	30	19	24	12	5,5
107.032.113.*	32	32	--	40	25	25	13	2,3
107.037.114.*	37	45	--	53	29	31	17,5	2,7
107.045.115.*	46	45	--	54	37	32	17,5	--
With conical passage – Series SV-TK								
107.011.103.*	11	25	13,5	31	7,5	21	12	1,2
107.012.106.*	12,5	25	14	30	10,5	21	12	1,9
107.013.101.*	13	25	14	30	10,5	20	12	1,1
107.013.105.*	13	25	14	30	8,5	20	12	2,6
107.015.102.*	15	25	16	30	10,5	20	12	3
107.017.066.*	17,5	25	17	31	12,5	20	12	2,7
107.018.104.*	18	25	18	30	14	21	12	2,4

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Rectangular bellows vacuum cups – Series SV-RB



Product Description

Bellows vacuum cups in rectangular design made of FDA-compliant material (SI). Particularly suitable for film-packaged products and filled pouches. - Also available with wire stiffening. Connection via an interlocking snap-in carrier plate.

Advantage

- > Large suction surface due to rectangular design
- > Bellows compensate differences in height and enable good adaptation to curved or uneven product surfaces
- > Gentle attachment to the product
- > Good fit for irregularities and bellows thanks to soft sealing lip

Ordering notes

Optional: Reinforced version available. Puckering of the nipple is prevented by wire hoops on the inside. When ordering, please add "-VERS" to item number

Technical Data

Item no.	Model / Lip dimensions		Number of bellows	Material / color
Bellows vacuum cups, 2.5 bellows, for cylindrical products				
201.79x29.002._*	SV-RB-79x29	16	2,5	SI (tr)
Bellows vacuum cups, 2.5 bellows, with flat sealing lip				
209.52x25.006._*	SV-RB-52x25	13	2,5	SI (tr)
209.60x29.001._*	SV-RB-60x29	13	2,5	SI (tr)
Bellows vacuum cups, 3.5 bellows, with thinly tapering, flexible sealing lip				
209.80x30.003._*	SV-RB-80x30	20	3,5	SI (tr)
209.80x40.004._*	SV-RB-80x40	20	3,5	SI (tr)
209.80x50.005._*	SV-RB-80x50	20	3,5	SI (tr)

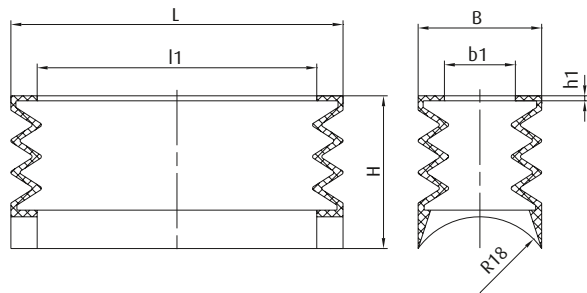
Accessories

	 Suitable fittings		Suitable wire strap reinforcement
Item no.	G1/8-female	G1/4-female	
Bellows vacuum cups, 2.5 bellows, for cylindrical products			
201.79x29.002._*	--	270.392 (p. 479)	X 0020
Bellows vacuum cups, 2.5 bellows, with flat sealing lip			
209.52x25.006._*	270.508 (p. 479)	--	X 0022
209.60x29.001._*	--	270.509 (p. 479)	X 0024
Bellows vacuum cups, 3.5 bellows, with thinly tapering, flexible sealing lip			
209.80x30.003._*	--	270.392 (p. 479)	X 0020
209.80x40.004._*	--	270.510 (p. 479)	X 0023
209.80x50.005._*	--	270.511 (p. 479)	--

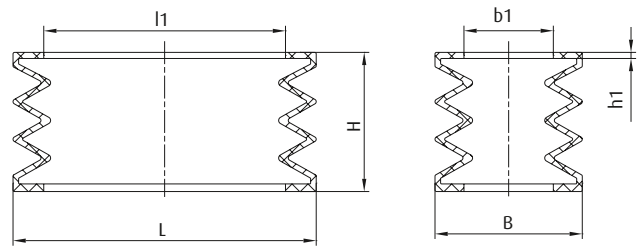
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



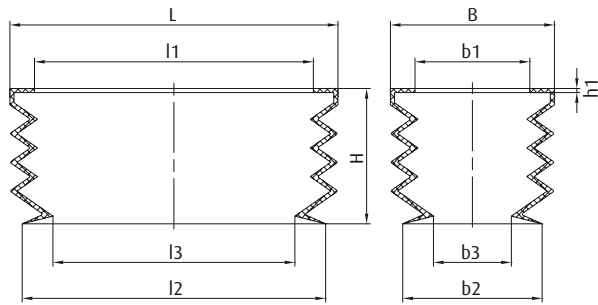
Dimensions



Bellows vacuum cups 2.5 bellows, for cylindrical products
79x29 mm



Bellows vacuum cups, 2.5 bellows, with flat sealing lip
52x25 | 60x29 mm



Bellows vacuum cups, 3.5 bellows, with thinly tapering, flexible sealing lip
80x30 | 80x40 | 80x50 mm

Item no.	L [mm]	B [mm]	l1 [mm]	l2 [mm]	l3 [mm]	b1 [mm]	b2 [mm]	b3 [mm]	H [mm]	h1 [mm]
Bellows vacuum cups, 2.5 bellows, for cylindrical products										
201.79x29.002.*	80	30	67	--	--	17	--	--	37	1,2
Bellows vacuum cups, 2.5 bellows, with flat sealing lip										
209.52x25.006.*	53	26	40	--	--	13	--	--	28	1,2
209.60x29.001.*	60	29	48	--	--	17,5	--	--	27	1,2
Bellows vacuum cups, 3.5 bellows, with thinly tapering, flexible sealing lip										
209.80x30.003.*	81	31	69	75	60	18	25	9	34	--
209.80x40.004.*	80	40	68	74	59	28	34	19	33	--
209.80x50.005.*	80	50	67	74	57	37	44	27	33	--

* When ordering please add the appropriate material code to the item no. You will find it in the foldout.