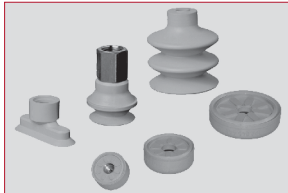
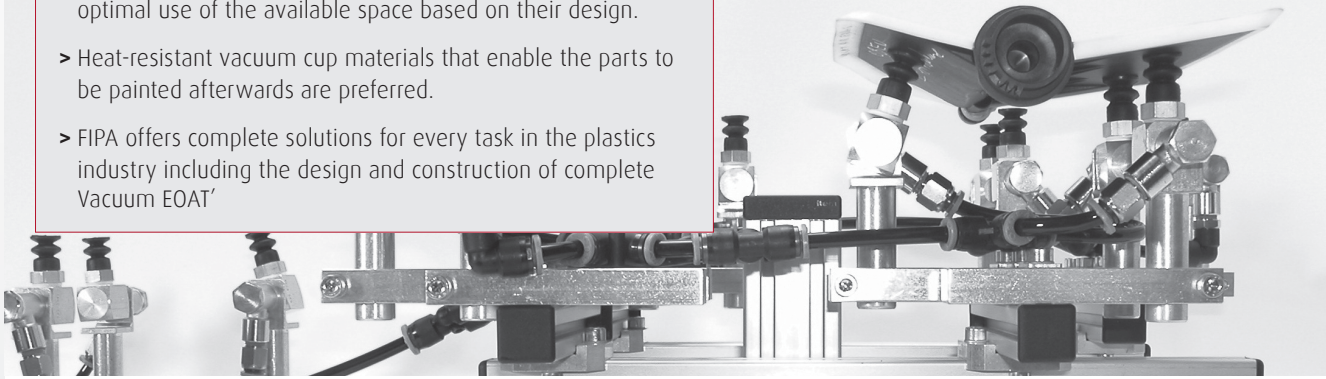


FIPA vacuum cups for the plastics industry

- > The most common application in the plastics industry is the removal of plastic parts from the injection-moulding machine.
- > Vacuum cup designs are generally used that can make optimal use of the available space based on their design.
- > Heat-resistant vacuum cup materials that enable the parts to be painted afterwards are preferred.
- > FIPA offers complete solutions for every task in the plastics industry including the design and construction of complete Vacuum EOAT'

The vacuum cups shown here represent a selection of special materials for high temperature applications. **Vacuum cups from standard material (NBR, NR, Silicone) can be found in the SF and SB series.**



Flat, oval and bellows vacuum cups (1.5 and 2.5 bellows) of HNBR, yellow

- > Standard material, suitable for most applications
- > Heat resistant up to 160 °C
- > Subsequent painting of the products possible, since they are silicone and PWIS-free
- > Wear-resistant material

Flat vacuum cups:

- > Flat vacuum cups with a minimal stroke for flat surfaces
- > Minimal space required due to nearly vertical vacuum cup lip
- > Great suction power thanks to the largest active vacuum suction surface possible

Oval vacuum cups:

- > Flat vacuum cups in oval design for elongated workpieces where only minimal space is available (e.g. rails, profiles, etc.)
- > Soft sealing lip also allows adhesion to curved products (e.g. tubes etc.)

Bellows vacuum cups:

- > Good adaptation to uneven product surfaces via the bellows
- > 1.5 bellows: Compensation for small differences in height
- > 2.5 bellows: Compensation for large differences in height with very large stroke
- > Gentle attachment to the product surface

> **More information from page 150**



Flat, oval and bellows vacuum cups (1.5 and 2.5 bellows) made of Thermalon®

- > Optimized special material for improved low-marking characteristics
- > Heat resistant up to 160 °C
- > Absence of silicone and PWIS allow for subsequent painting of the products

Flat vacuum cups:

- > Flat vacuum cups with a flexible single lip
- > Cup's low volume saves energy

Oval vacuum cups:

- > Flat vacuum cups in oval design for elongated workpieces where only minimal space is available (e.g. rails, profiles, products with lugs and protrusions, etc.)
- > Adhesion to curved products thanks to soft sealing lip

Bellows vacuum cups:

- > Good adaptation to uneven product surfaces due to the bellows
- > Compensation for low (1.5 bellows) and large (2.5 bellows) height differences
- > Gentle contact with product surface

> **More information from page 158**

Bellows vacuum cups, 1.5 bellows made of HNBR – Series SKH-B1

MINIMUM MARKING /
UP TO 160°C



Product Description

Bellows vacuum cups for uneven surfaces with suitability for removing hot plastic parts to be painted from an injection moulding machine. Connection via plug nipple.

Advantage

- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Bellows compensate differences in height and enable good adaptation to curved or uneven product surfaces

Technical Data

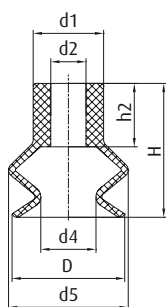
Item no.	Model / Lip dimensions		Number of bellows	Material / color	Usage temperature [°C]
23.011.008.*	SKH-B1-11	4,5	1,5	HNBR (ge)	0 - 160
23.015.122.*	SKH-B1-15	5	1,5	HNBR (ge)	0 - 160
23.016.016.*	SKH-B1-16	6	1,5	HNBR (ge)	0 - 160
23.020.124.*	SKH-B1-20	8	1,5	HNBR (ge)	0 - 160
23.030.125.*	SKH-B1-30	9	1,5	HNBR (ge)	0 - 160
23.043.096.*	SKH-B1-43	12	1,5	HNBR (ge)	0 - 160

Accessories

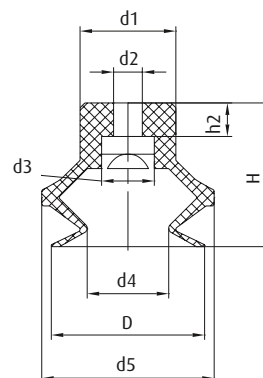
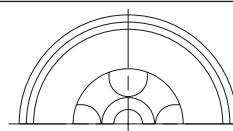
Item no.	Suitable fittings						
	M5-male	M5-female	M6-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
23.011.008.*	270.013 (p. 448)	--	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
23.015.122.*	270.010 (p. 449)	270.005 (p. 450)	--	270.009 (p. 455)	270.007 (p. 460)	--	--
23.016.016.*	270.013 (p. 448)	--	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
23.020.124.*	270.311 (p. 449)	--	--	270.063 (p. 457)	270.061 (p. 461)	--	--
23.030.125.*	--	--	270.312/19 (p. 452)	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)
23.043.096.*	--	--	--	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)

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

Dimensions



Ø 12 | 16 | 43 mm



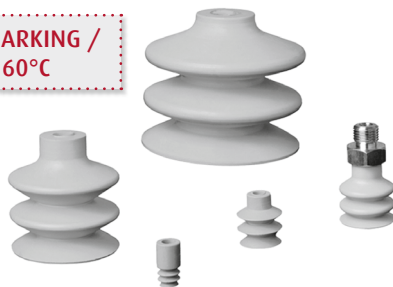
Ø 15 | 21,5 | 32 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	Ø d5 [mm]	H [mm]	h2 [mm]
23.011.008.*	12	10	5	--	4,5	12	16	9
23.015.122.*	15	8,5	3,6	6	8	17	16	1,7
23.016.016.*	16	10	5	--	8	17	19	9
23.020.124.*	21,5	15	4,5	11	10	23,5	20	4,6
23.030.125.*	32	20	6	11	17	36	30	7
23.043.096.*	43	18	8	--	23	45	27	12

* 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 HNBR – Series SKH-B2

MINIMUM MARKING /
UP TO 160°C



Product Description

Bellows vacuum cups for uneven surfaces with suitability for removing hot plastic parts to be painted from an injection moulding machine. Connection via plug nipple.

Advantage

- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Long vacuum cup stroke and good adaptation to curved or uneven product surfaces

Technical Data

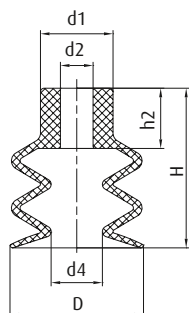
Item no.	Model / Lip dimensions		Number of bellows	Material / color	Usage temperature [°C]
21.005.057._*	SKH-B2-5	3	2,5	HNBR (ge)	0 - 160
21.007.089._*	SKH-B2-7	3	2,5	HNBR (ge)	0 - 160
21.009.002._*	SKH-B2-9	2	2,5	HNBR (ge)	0 - 160
21.012.135._*	SKH-B2-12	7	2,5	HNBR (ge)	0 - 160
21.014.053._*	SKH-B2-14	9	2,5	HNBR (ge)	0 - 160
21.018.010._*	SKH-B2-18	8	2,5	HNBR (ge)	0 - 160
21.020.016._*	SKH-B2-20	9	2,5	HNBR (ge)	0 - 160
21.032.075._*	SKH-B2-32	13	2,5	HNBR (ge)	0 - 160
21.043.049._*	SKH-B2-43	19	2,5	HNBR (ge)	0 - 160
21.060.051._*	SKH-B2-60	25	2,5	HNBR (ge)	0 - 160

Accessories

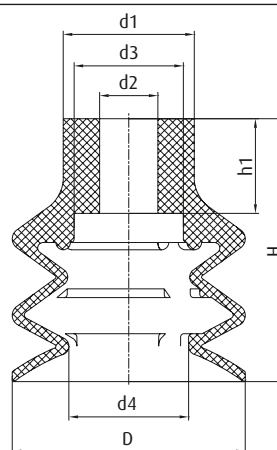
Item no.	Suitable fittings						
	M5-male	M5-female	M6-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
21.005.057._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.007.089._*	270.010 (p. 449)	270.005 (p. 450)	--	270.009 (p. 455)	270.007 (p. 460)	--	--
21.009.002._*	270.013 (p. 448)	270.005 (p. 450)	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
21.012.135._*	270.013 (p. 448)	270.005 (p. 450)	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
21.014.053._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.018.010._*	270.013 (p. 448)	270.005 (p. 450)	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	--	--
21.020.016._*	270.013 (p. 448)	270.005 (p. 450)	270.103 (p. 451)	270.003 (p. 455)	270.015 (p. 459)	270.194 (p. 463)	--
21.032.075._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
21.043.049._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
21.060.051._*	--	--	270.315 (p. 452)	--	--	270.540 (p. 468)	270.539 (p. 473)

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

Dimensions



Ø 5,5 | 9 | 12 | 14 | 18 | 20 mm



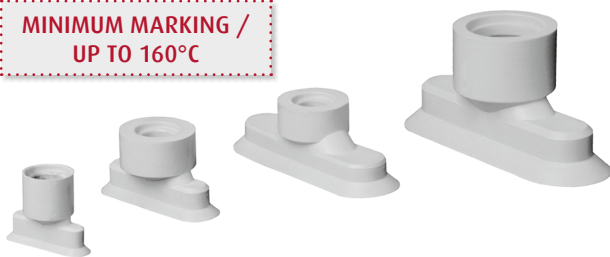
Ø 7 | 32 | 42 | 61 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	H [mm]	h1 [mm]	h2 [mm]
21.005.057._*	5,5	7	4	--	2,5	14	--	8,5
21.007.089._*	7	7,5	4	5,5	3	10	2	3,5
21.009.002._*	9	9	5	--	4	15	--	7
21.012.135._*	12	10	5	--	5	21	--	9
21.014.053._*	14	8	4	--	5,5	18	--	5,5
21.018.010._*	18	10	4,5	--	7	22	--	8,5
21.020.016._*	20	10	4,5	--	10	23	--	9
21.032.075._*	32	18	8	15	16,5	36	13	--
21.043.049._*	42	20	8	15	15,5	46	13	17
21.060.051._*	61	22	8	14	28	57	14	18,5

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

Oval vacuum cups made of HNBR – Series SKH-0

MINIMUM MARKING /
UP TO 160°C



Product Description

Oval vacuum cups for smooth surfaces suitable for removing hot plastic parts to be painted from an injection moulding machine. Connection via plug nipple.

Advantage

- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Significantly increased suction force compared to round vacuum cups of the same width
- > Soft sealing lip also allows adhesion to curved products

Ordering notes

From size 15x5 mm upward, a gripper clamp (available separately) is recommended to prevent inadvertent rotation

Technical Data

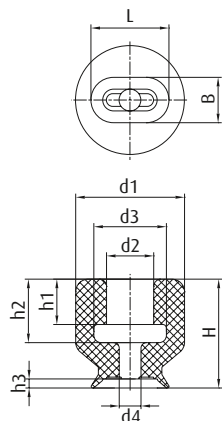
Item no.	Model / Lip dimensions		Material / color	Usage temperature [°C]
132.4x2.031_*	SKH-0-4X2A	0,5	HNBR (ge)	0 - 160
132.7x4.034_*	SKH-0-7X4	0,8	HNBR (ge)	0 - 160
132.15X5.067_*	SKH-0-15X5	1	HNBR (ge)	0 - 160
132.24X8.066_*	SKH-0-24X8	1	HNBR (ge)	0 - 160
132.36X12.068_*	SKH-0-36X12	2	HNBR (ge)	0 - 160
132.45X15.064_*	SKH-0-45X15	3	HNBR (ge)	0 - 160

Accessories

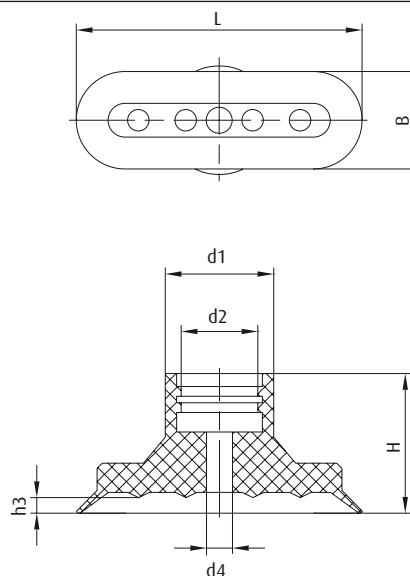
Item no.	 Suitable fittings						Suitable clamp
	M3-male	M4-male	M5-male	G1/8-male	G1/4-male	G1/4-female	
132.4x2.031_*	270.014 (p. 446)	270.111 (p. 446)	270.300 (p. 449)	--	--	--	--
132.7x4.034_*	270.014 (p. 446)	270.111 (p. 446)	270.300 (p. 449)	--	--	--	--
132.15X5.067_*	--	--	--	270.431 (p. 456)	--	--	78.030 (p. 513)
132.24X8.066_*	--	--	--	270.431 (p. 456)	--	--	78.032 (p. 513)
132.36X12.068_*	--	--	--	270.431 (p. 456)	--	--	78.032 (p. 513)
132.45X15.064_*	--	--	--	--	270.097 (p. 464)	270.098 (p. 471)	78.033 (p. 513)

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

Dimensions



7X4 | 4X2A mm



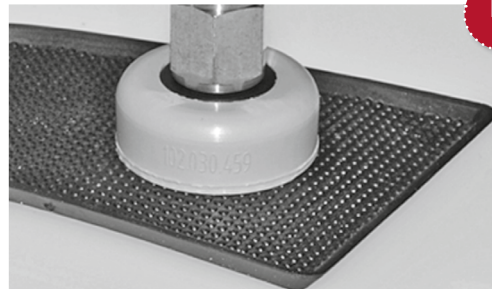
15X5 | 24X8 | 36X12 | 45X15 mm

Item no.	L [mm]	B [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]
132.4x2.031._*	4,3	2,5	6	2,6	4	1,2	6	2,5	3,5	0,5
132.7x4.034._*	7,5	4	6	2,4	3	1,4	6	2,3	3	0,7
132.15X5.067._*	15	5	9	5	--	2	12	--	--	0,8
132.24X8.066._*	24	8,5	12,5	5	--	3	13	--	--	1,5
132.36X12.068._*	36	12	12	5	--	4	12	--	--	1,6
132.45X15.064._*	44	15	16,5	12	--	4	22	--	--	2,4

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

Flat vacuum cups with a short stroke, made of HNBR – Series SFK-K

MINIMUM MARKING /
UP TO 160°C



NEW

Product Description

Flat vacuum cups with a minimum stroke for flat surfaces. Well suited for removing hot plastic parts to be painted from an injection moulding machine. Connection via a form-locking, snap-in aluminum plate.

Advantage

- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > High suction force with a small footprint.
- > Minimised wear, as the suction lip does not slide over the product during suction

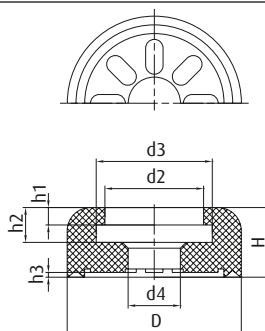
Technical Data

Item no.	Model / Lip dimensions		Material / color	Usage temperature [°C]
102.020.458._*	SFK-K-20	0,5	HNBR (ge)	0 - 160
102.030.459._*	SFK-K-30	0,8	HNBR (ge)	0 - 160
102.045.460._*	SFK-K-45	1,2	HNBR (ge)	0 - 160

Accessories

Suitable fittings		
Item no.	M5-male	G1/8-female
102.020.458._*	270.521 (p. 450)	--
102.030.459._*	--	270.234 (p. 478)
102.045.460._*	--	270.235 (p. 478)

Dimensions



Item no.	Ø D [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]
102.020.458._*	20	10	14	6,5	12	3	7	0,5
102.030.459._*	30	17	20	9	12	3	6	0,8
102.045.460._*	45	25	28	9	12	3,5	5,5	1,2

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



Notes:

A series of horizontal lines for taking notes, spanning the width of the page.

Bellows vacuum cups, 1.5 bellows, made of Thermalon® – Series SKT-B1

NEW

MINIMUM MARKING /
UP TO 160°C



Product Description

Bellows vacuum cups for uneven surfaces especially suited for removing hot plastic parts to be painted from an injection moulding machine. Thermalon® is a material mixture specially optimised for the plastics industry with a hardness of 60 Shore A. Connection via plug-in nipple.

Advantage

- > Extremely low marking
- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Bellows compensate differences in height and enable good adaptation to curved or uneven product surfaces

Technical Data

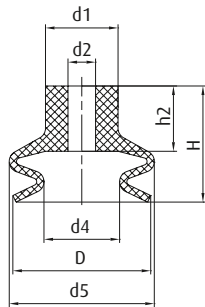
Item no.	Model / Lip dimensions		Material / color	Number of bellows	Usage temperature [°C]
23.011.234._*	SKT-B1 -11	5,5	Thermalon® (bl)	1,5	0 - 160
23.014.235._*	SKT-B1 -14	5	Thermalon® (bl)	1,5	0 - 160
23.016.236._*	SKT-B1 -16	8,5	Thermalon® (bl)	1,5	0 - 160
23.018.237._*	SKT-B1 -18	5	Thermalon® (bl)	1,5	0 - 160
23.020.238._*	SKT-B1 -20	5	Thermalon® (bl)	1,5	0 - 160
23.022.239._*	SKT-B1 -22	8	Thermalon® (bl)	1,5	0 - 160
23.025.240._*	SKT-B1 -25	12	Thermalon® (bl)	1,5	0 - 160
23.033.241._*	SKT-B1 -33	11	Thermalon® (bl)	1,5	0 - 160
23.043.242._*	SKT-B1 -43	12,5	Thermalon® (bl)	1,5	0 - 160
23.053.243._*	SKT-B1 -53	15	Thermalon® (bl)	1,5	0 - 160
23.063.244._*	SKT-B1 -63	15	Thermalon® (bl)	1,5	0 - 160

Accessories

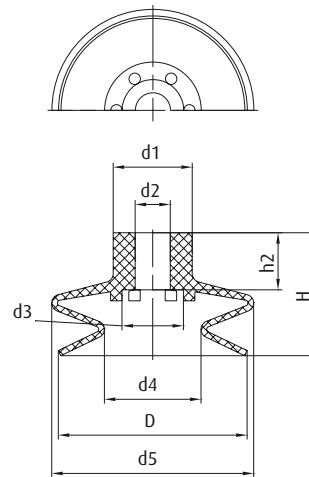
Item no.	Suitable fittings						
	M5-male	M5-female	M6-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
23.011.234._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.014.235._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.016.236._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.018.237._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.020.238._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.022.239._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.025.240._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
23.033.241._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
23.043.242._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
23.053.243._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
23.063.244._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)

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

Dimensions



Ø 11 | 13 | 16 | 18 | 19 | 22 | 24 mm



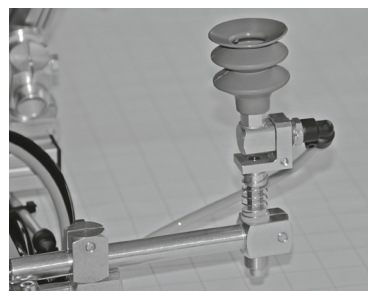
Ø 33 | 43 | 53 | 63 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	Ø d5 [mm]	H [mm]	h2 [mm]
23.011.234._*	11	10	3,8	--	5	12	16	9
23.014.235._*	13	10	3,8	--	5	14	16	9
23.016.236._*	16	10	3,8	--	8	17,5	19	9
23.018.237._*	18	10	3,8	--	8	18	16,5	9
23.020.238._*	19	10	3,8	--	10,5	20	16	9
23.022.239._*	22	10	3,8	--	11	24	19	9
23.025.240._*	24	10	3,8	--	9,5	25	23	9
23.033.241._*	33	18	8	14	17	36	28	13
23.043.242._*	43	18	8	14	22	46	28	13
23.053.243._*	53	18	8	14	33	59	34	13
23.063.244._*	63	18	8	14	44	67	34	13

* 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 Thermalon® – Series SKT-B2

MINIMUM MARKING /
UP TO 160°C



NEW

Product Description

Bellows vacuum cups for uneven surfaces especially suited for removing hot plastic parts to be painted from an injection moulding machine. Thermalon® is a material mixture specially optimised for the plastics industry with a hardness of 60 Shore A. Connection via plug-in nipple.

Advantage

- > Extremely low marking
- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Long vacuum cup stroke and good adaptation to curved or uneven product surfaces

Technical Data

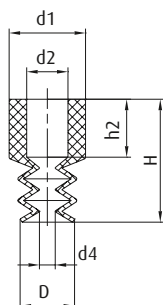
Item no.	Model / Lip dimensions		Material / color	Number of bellows	Usage temperature [°C]
21.005.146._*	SKT-B2-5	3	Thermalon® (bl)	2,5	0 - 160
21.007.147._*	SKT-B2-7	3	Thermalon® (bl)	2,5	0 - 160
21.009.148._*	SKT-B2-9	3	Thermalon® (bl)	2,5	0 - 160
21.012.149._*	SKT-B2-12	7	Thermalon® (bl)	2,5	0 - 160
21.014.150._*	SKT-B2-14	10	Thermalon® (bl)	2,5	0 - 160
21.018.151._*	SKT-B2-18	10	Thermalon® (bl)	2,5	0 - 160
21.020.152._*	SKT-B2-20	10	Thermalon® (bl)	2,5	0 - 160
21.025.153._*	SKT-B2-25	20	Thermalon® (bl)	2,5	0 - 160
21.032.154._*	SKT-B2-32	14,5	Thermalon® (bl)	2,5	0 - 160
21.042.155._*	SKT-B2-42	22	Thermalon® (bl)	2,5	0 - 160
21.052.156._*	SKT-B2-52	27	Thermalon® (bl)	2,5	0 - 160
21.062.157._*	SKT-B2-62	31	Thermalon® (bl)	2,5	0 - 160

Accessories

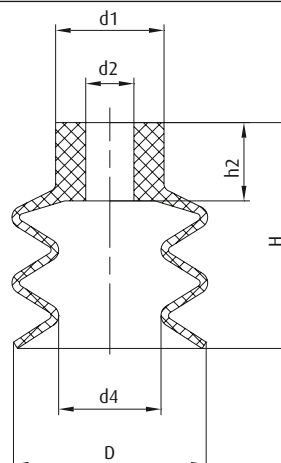
Item no.	Suitable fittings						
	M5-male	M5-female	M6-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female
21.005.146._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.007.147._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.009.148._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.012.149._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.014.150._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.018.151._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.020.152._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.025.153._*	270.134 (p. 447)	270.347 (p. 450)	270.104 (p. 451)	270.033 (p. 454)	270.478 (p. 459)	--	--
21.032.154._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
21.042.155._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
21.052.156._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)
21.062.157._*	--	--	270.315 (p. 452)	270.132 (p. 455)	270.114 (p. 460)	270.190 (p. 466)	270.192 (p. 471)

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

Dimensions



Ø 5,5 | 6 | 9,5 mm



Ø 12 | 14 | 17,5 | 20 | 25 | 32 | 42 | 52 | 62 mm

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d4 [mm]	H [mm]	h2 [mm]
21.005.146.*	5,5	7	4	2,2	13,5	8
21.007.147.*	6	8,5	4,5	1,8	14	6,5
21.009.148.*	9,5	9	4,4	4	15	7,5
21.012.149.*	12	10	3,8	5	21	9
21.014.150.*	14	10	3,8	5	23	9
21.018.151.*	17,5	10	3,8	7,5	23	9
21.020.152.*	20	10	3,8	10	23	9
21.025.153.*	25	10	3,8	10	34	9
21.032.154.*	32	18	8	17	38	13
21.042.155.*	42	18	8	18,5	46	13
21.052.156.*	52	18	8	25	49	13
21.062.157.*	62	21	8	30	55	13

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

Flat vacuum cups made of Thermalon® – Series SKT-F

MINIMUM MARKING /
UP TO 160°C



NEW

Product Description

Flat vacuum cups for smooth surfaces especially suitable for removing hot plastic parts to be painted from an injection moulding machine. Thermalon® is a material mixture specially optimised for the plastics industry with a hardness of 60° Shore A. Connection up to Ø 50 mm by means of plug nipple, from Ø 60 mm with vulcanized carrier plate (bolttable).

Advantage

- > Extremely low marking
- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Great lateral stability allows high acceleration

Technical Data

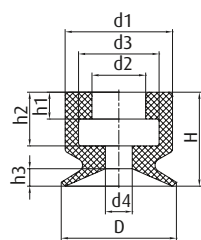
Item no.	Model / Lip dimensions		Material / color	Usage temperature [°C]
102.005.496._*	SKT-F-5	0,9	Thermalon® (bl)	0 - 160
102.008.497._*	SKT-F-8	1,3	Thermalon® (bl)	0 - 160
102.010.498._*	SKT-F-10	1,5	Thermalon® (bl)	0 - 160
102.015.499._*	SKT-F-15	1,9	Thermalon® (bl)	0 - 160
102.020.500._*	SKT-F-20	2,3	Thermalon® (bl)	0 - 160
102.025.501._*	SKT-F-25	3	Thermalon® (bl)	0 - 160
102.030.502._*	SKT-F-30	2	Thermalon® (bl)	0 - 160
102.040.503._*	SKT-F-40	3,9	Thermalon® (bl)	0 - 160
102.050.504._*	SKT-F-50	4	Thermalon® (bl)	0 - 160
102.060.505._*	SKT-F-60	4,9	Thermalon® (bl)	0 - 160

Accessories

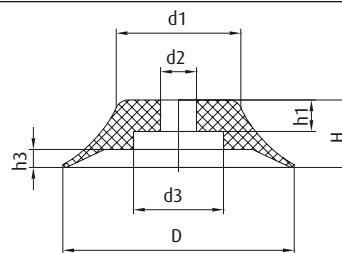
Item no.	Suitable fittings							Suitable spring plunger	
	M5-male	M5-female	M6-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female	Spring plunger	
102.005.496._*	270.010 (p. 449)	270.005 (p. 450)	--	270.009 (p. 455)	270.007 (p. 460)	--	--	50.330 (p. 494)	10
102.008.497._*	270.010 (p. 449)	270.005 (p. 450)	--	270.009 (p. 455)	270.007 (p. 460)	--	--	50.330 (p. 494)	10
102.010.498._*	270.010 (p. 449)	270.005 (p. 450)	--	270.009 (p. 455)	270.007 (p. 460)	--	--	50.330 (p. 494)	10
102.015.499._*	270.200 (p. 449)	--	--	270.064 (p. 457)	270.065 (p. 461)	--	--	50.330 (p. 494)	10
102.020.500._*	270.311 (p. 449)	--	--	270.063 (p. 457)	270.061 (p. 461)	--	--	--	--
102.025.501._*	--	--	270.312/19 (p. 452)	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)	--	--
102.030.502._*	--	--	270.312/19 (p. 452)	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)	--	--
102.040.503._*	--	--	270.312/19 (p. 452)	270.030 (p. 457)	270.019 (p. 461)	270.274 (p. 465)	270.275 (p. 471)	--	--
102.050.504._*	--	--	--	270.012 (p. 459)	270.020 (p. 461)	270.491 (p. 468)	270.492 (p. 473)	--	--
102.060.505._*	--	--	--	--	--	--	--	--	--

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

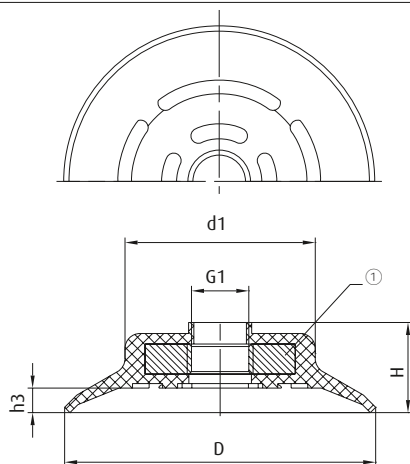
Dimensions



Ø 5,5 | 8,5 | 11 mm



Ø 15,5 | 21 | 26 | 31 | 41 | 51 mm



Ø 62 mm

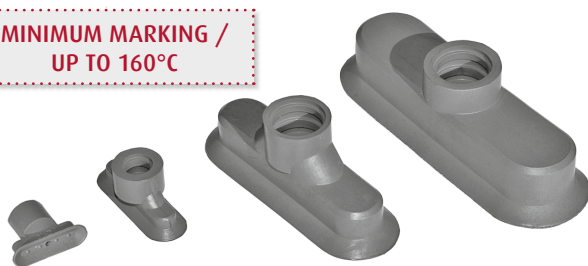
① = Aluminum

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	G1	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]
102.005.496.*	5,5	7,5	4	6	1,5	--	6,5	2	4	0,9
102.008.497.*	8,5	8	4	6	2	--	7	2	4	1,3
102.010.498.*	11	8,5	4	6	2	--	7,5	2	4	1,4
102.015.499.*	15,5	12	4,5	8	--	--	8	2,7	--	1,8
102.020.500.*	21	15	4,5	11	--	--	10	4,5	--	2,2
102.025.501.*	26	16	6	11	--	--	14	7	--	2,8
102.030.502.*	31	14,5	6	11	--	--	12	7	--	2
102.040.503.*	41	24	6	11	--	--	14	7	--	3,9
102.050.504.*	51	27,5	8	20	--	--	15	7	--	4
102.060.505.*	62	38	--	30	--	G1/4	18	--	--	5

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

Oval vacuum cups made of Thermalon® – Series SKT-0

MINIMUM MARKING /
UP TO 160°C



NEW

Product Description

Oval vacuum cups for smooth surfaces suitable for removing hot plastic parts to be painted from an injection moulding machine. Thermalon® is a material mixture specially optimised for the plastics industry with a hardness of 60 Shore A. Connection via plug-in nipple.

Advantage

- > Extremely low marking
- > Free of silicone and other paint-wetting-impairment substances (PWIS)
- > Significantly increased suction force compared to round vacuum cups of the same width
- > Soft sealing lip also allows adhesion to curved products

Ordering notes

From size 24x8 mm upward, a gripper clamp (available separately) is recommended to prevent inadvertent rotation

Technical Data

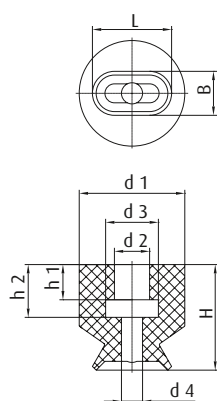
Item no.	Model / Lip dimensions		Material / color	Usage temperature [°C]
132.4x2.079_*	SKT-0-4x2	0,4	Thermalon® (bl)	0 - 160
132.7x4.080_*	SKT-0-7x4	0,5	Thermalon® (bl)	0 - 160
132.15x5.081_*	SKT-0-15x5	0,6	Thermalon® (bl)	0 - 160
132.18x6.082_*	SKT-0-18x6	1	Thermalon® (bl)	0 - 160
132.24x8.083_*	SKT-0-24x8	1	Thermalon® (bl)	0 - 160
132.30x10.084_*	SKT-0-30x10	1	Thermalon® (bl)	0 - 160
132.45x15.085_*	SKT-0-45x15	2	Thermalon® (bl)	0 - 160
132.60x20.086_*	SKT-0-60x20	2,5	Thermalon® (bl)	0 - 160
132.75x25.087_*	SKT-0-75x25	2,5	Thermalon® (bl)	0 - 160

Accessories

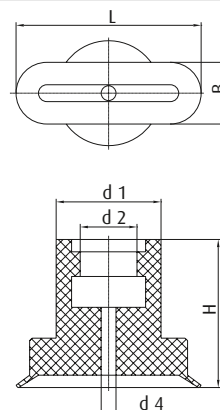
Item no.	Suitable fittings							Suitable clamp
	M3-male	M4-male	M5-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female	
132.4x2.079_*	270.014 (p. 446)	270.111 (p. 446)	270.300 (p. 449)	--	--	--	--	--
132.7x4.080_*	270.014 (p. 446)	270.111 (p. 446)	270.300 (p. 449)	--	--	--	--	--
132.15x5.081_*	--	--	270.094 (p. 449)	270.095 (p. 456)	270.096 (p. 460)	--	--	--
132.18x6.082_*	--	--	270.094 (p. 449)	270.095 (p. 456)	270.096 (p. 460)	--	--	--
132.24x8.083_*	--	--	270.094 (p. 449)	270.095 (p. 456)	270.096 (p. 460)	--	--	78.032 (p. 513)
132.30x10.084_*	--	--	270.094 (p. 449)	270.095 (p. 456)	270.096 (p. 460)	--	--	78.032 (p. 513)
132.45x15.085_*	--	--	--	--	--	270.097 (p. 464)	270.098 (p. 471)	78.033 (p. 513)
132.60x20.086_*	--	--	--	--	--	270.097 (p. 464)	270.098 (p. 471)	78.033 (p. 513)
132.75x25.087_*	--	--	--	--	--	270.097 (p. 464)	270.098 (p. 471)	78.034 (p. 513)

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

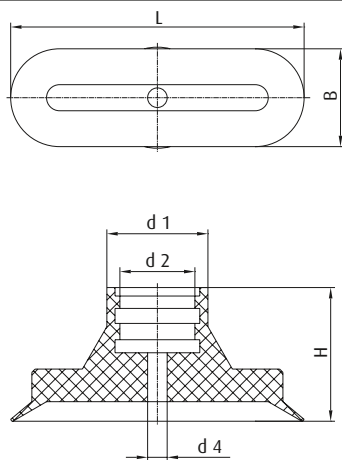
Dimensions



4x2 | 7x4 mm



15x5 | 18x6 | 24x8 | 30x10 mm



45x15 | 60x20 | 75x25 mm

Item no.	L [mm]	B [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	H [mm]
132.4x2.079._*	4,5	2,5	6	2	3	1,2	6
132.7x4.080._*	7	3,5	6	2	3	1,4	6
132.15x5.081._*	15	5	8,5	4,6	--	1,2	12
132.18x6.082._*	18	6	8,5	4,6	--	1,5	12
132.24x8.083._*	24	8	11,5	5,5	--	1,5	12
132.30x10.084._*	30	10	11,5	5,5	--	2,5	12
132.45x15.085._*	45	15	15,5	11,5	--	3	21
132.60x20.086._*	60	20	15,5	11,5	--	4	21
132.75x25.087._*	75	25	17,5	11,5	--	4	21

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