

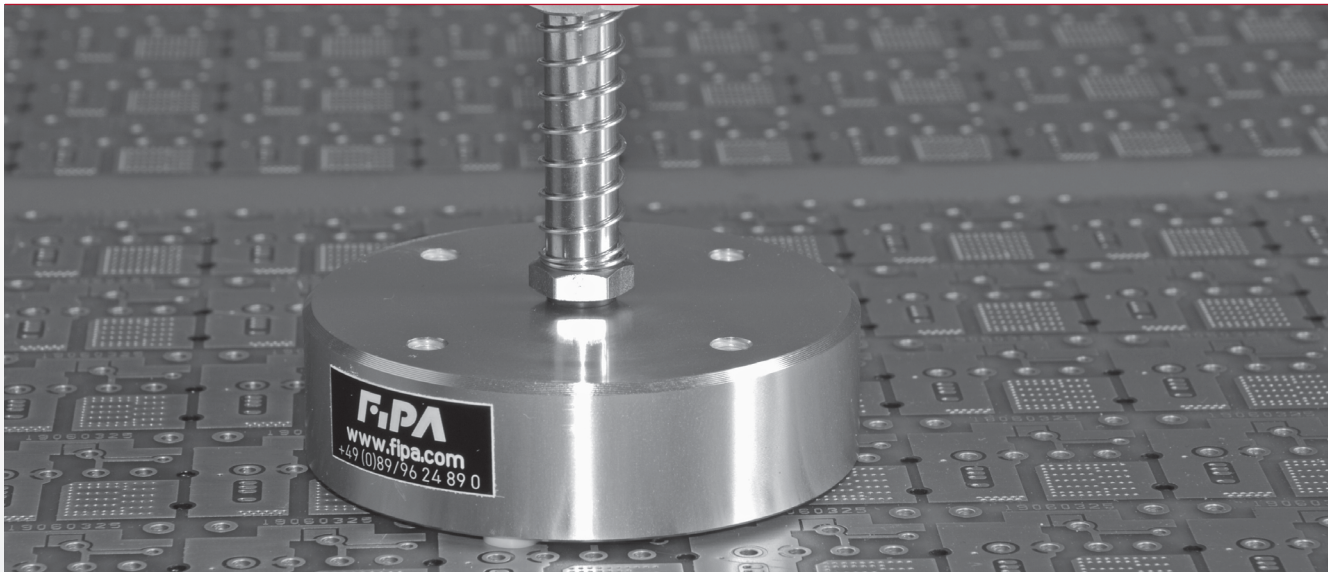
Special vacuum cups at a glance	93
Special vacuum cups SX	94



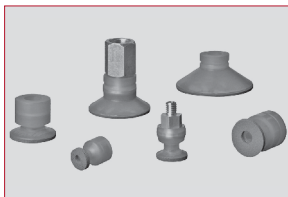
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



FIPA special vacuum cups SX

**Temperature-resistant felt coated vacuum cups – Series SX-F**

- > Nearly mark-free special vacuum cup for the highest temperature requirements, such as in the glass industry
- > Temperature resistant up to 550 °C (SI)
- > Special felt pad permanently attached to elastomer carrier by vulcanization
- > **For more information, see page 94**

**Vacuum cups with sponge pad – Series SX-SH**

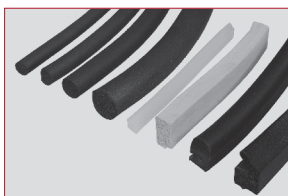
- > Flat vacuum cup with contact surface of special silicone sponge
- > Very low-marking on polished surfaces
- > Flat sealing prevents leakage on rough, porous surfaces
- > **For more information, see page 96**

**Bernoulli vacuum cups – Series SX-B**

- > Low-contact and torsion-resistant transport of sensitive products
- > No ejector, requires compressed air only
- > High holding force: Bernoulli vacuum cups can move up to 600 g of mass
- > Perfectly suited for porous products thanks to high volume flow at low vacuum level
- > **For more information, see page 98**

**Hand grippers – SX-G**

- > Sturdy gripper for the manual handling of flat, smooth products
- > No vacuum source required
- > Simplicity of handling – release of the product via a release button
- > **For more information, see page 100**

**Sealing profiles**

- > Available by the meter for manufacturing individual vacuum suction plates
- > Ideal adaptation to specific product requirements
- > **More information from page 101**



Special vacuum cups | Special vacuum cups SX

Temperature-resistant, felt-coated vacuum cups – Series SX-F

Temperature-resistant, felt-coated vacuum cups – Series SX-F

MINIMUM
MARKING



Product Description

Almost mark-free special vacuum cup for high temperature requirements, e.g. in the glass industry. Special felt pad vulcanized to elastomer carrier. Migration of silicone particles is prevented by vapour-deposited aluminum layer. Connection up to Ø 70 mm by means of plug nipple, from Ø 90 mm with bolted bracket plate.


Advantage

- > Temperature resistant up to 550 °C
- > Almost mark-free
- > Cost-effective replacement of worn seals


Note

There is a small leak at first use resulting from the texture of the special felt, but after a brief period of use this will be significantly reduced by the thickening of the felt layer.

Technical Data

Item no.	Model / Lip dimensions		Weight [g]	Max. operating temperature [°C]	Material / color	Number of bellows
26.025.009._*	SX-F-25	2	6	550	SI (tr/ge)	--
26.037.010._*	SX-F-40	3	10	550	SI (tr/ge)	--
26.070.011._*	SX-F-70	7	24	550	SI (tr/ge)	--
26.090.001._*	SX-F-90	17	80	550 (SI), 350 (FKM)	SI (tr/ge), FKM (sw/ge)	1,5
26.120.002._*	SX-F-120	18	140	350	FKM (sw/ge)	1,5
26.160.003._*	SX-F-160	18	205	350	FKM (sw/ge)	1,5

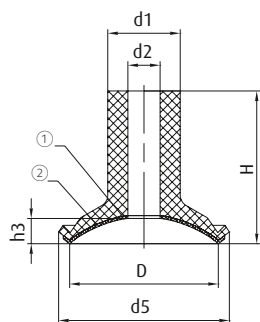
Accessories

Item no.	 Suitable fittings				
	G1/8-male	G1/8-female	G1/4-male	G1/4-female	G3/8-female
26.025.009._*	270.132 (p. 455)	270.114 (p. 460)	270.208 (p. 464)	270.178 (p. 470)	--
26.037.010._*	270.132 (p. 455)	270.114 (p. 460)	270.208 (p. 464)	270.178 (p. 470)	--
26.070.011._*	270.132 (p. 455)	270.114 (p. 460)	270.208 (p. 464)	270.178 (p. 470)	--
26.090.001._*	--	--	--	--	270.400 (p. 475)
26.120.002._*	--	--	--	--	270.402 (p. 475)
26.160.003._*	--	--	--	--	270.404 (p. 475)

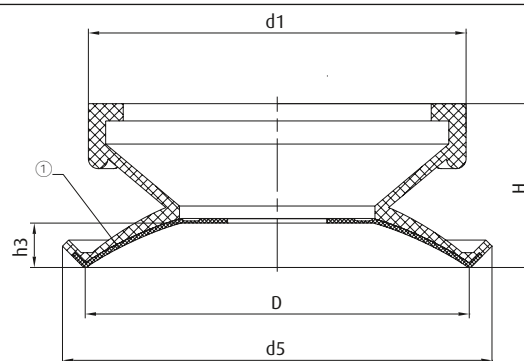
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Dimensions



Ø 24 | 37 | 67 mm



Ø 89 | 120 | 150 mm

① = Felt pads

② = For silicone vacuum cups with silicone membranes: evaporated aluminum layer

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d5 [mm]	H [mm]	h3 [mm]
26.025.009._*	24	16	8	29	36	3,3
26.037.010._*	37	18	8	42	38	6,5
26.070.011._*	67	21	8	71	36	8
26.090.001._*	89	87	--	99	38	10,5
26.120.002._*	120	108	--	129	45	17,5
26.160.003._*	150	130	--	161	48	16,5

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



Special vacuum cups | Special vacuum cups SX

Vacuum cups with sponge pad – Series SX-SH

Vacuum cups with sponge pad – Series SX-SH



Product Description

Low-marking flat vacuum cup with contact surface of special silicone sponge. Soft sponge coating compensates for unevenness. Connection via an interlocking snap-in plug nipple.







Advantage

- > Very low-marking on polished surfaces
- > Flat sealing prevents leakage
- > Cost-effective replacement of worn seals

Technical Data

Item no.	Model / Lip dimensions		Max. operating temperature [°C]	Material / color
104.008.082._*	SX-SH-8	0,5	200	SI (bl/r)
104.009.083._*	SX-SH-9	0,5	200	SI (bl/r)
104.013.084._*	SX-SH-13	0,5	200	SI (bl/r)
104.015.085._*	SX-SH-15	1	200	SI (bl/r)
104.020.086._*	SX-SH-20	1,5	200	SI (bl/r)
104.030.087._*	SX-SH-30	1,5	200	SI (bl/r)
104.040.088._*	SX-SH-40	2,5	200	SI (bl/r)

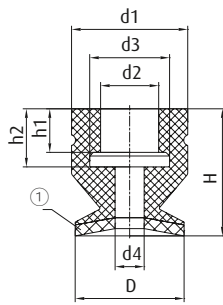
Accessories

Item no.	 Suitable fittings					 Suitable spring plunger							
	M5-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female	Spring plunger		Spring plunger		Spring plunger		Spring plunger	
104.008.082._*	270.200 (p. 449)	270.064 (p. 457)	270.065 (p. 461)	--	--	--	--	50.018 (p. 494)	8,5	50.141 (p. 496)	10	--	--
104.009.083._*	270.200 (p. 449)	270.064 (p. 457)	270.065 (p. 461)	--	--	--	--	50.018 (p. 494)	8,5	50.141 (p. 496)	10	--	--
104.013.084._*	270.200 (p. 449)	270.064 (p. 457)	270.065 (p. 461)	--	--	--	--	50.018 (p. 494)	8,5	50.141 (p. 496)	10	--	--
104.015.085._*	--	270.012 (p. 459)	270.020 (p. 461)	270.034 (p. 466)	270.038 (p. 471)	50.005 (p. 496)	5	50.148 (p. 496)	--	50.145 (p. 496)	10	50.146 (p. 496)	30
104.020.086._*	--	270.012 (p. 459)	270.020 (p. 461)	270.034 (p. 466)	270.038 (p. 471)	50.005 (p. 496)	5	50.148 (p. 496)	--	50.145 (p. 496)	10	50.146 (p. 496)	30
104.030.087._*	--	270.012 (p. 459)	270.020 (p. 461)	270.034 (p. 466)	270.038 (p. 471)	50.005 (p. 496)	5	50.148 (p. 496)	--	50.145 (p. 496)	10	50.146 (p. 496)	30
104.040.088._*	--	270.012 (p. 459)	270.020 (p. 461)	270.034 (p. 466)	270.038 (p. 471)	50.005 (p. 496)	5	50.148 (p. 496)	--	50.145 (p. 496)	10	50.146 (p. 496)	30

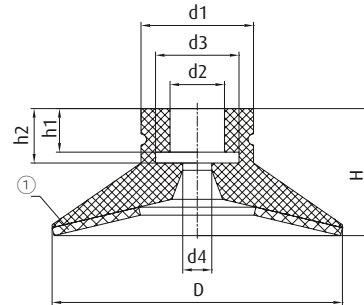
* When ordering please add the appropriate material code to the item no. You will find it in the foldout.



Dimensions



Ø 8 | 9 | 13 | 15 | 20 mm



Ø 30 | 40 mm

① = Sponge layer of special silicone (minimum marking)

Item no.	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	H [mm]	h1 [mm]	h2 [mm]
104.008.082.*	8	10,5	5	7	3	14	3	5
104.009.083.*	9	10,5	5	7	3	14	3	5
104.013.084.*	13	10,5	5	7	3	14	3	5
104.015.085.*	15	15,5	7,5	11,5	4	17,5	6	8
104.020.086.*	20	15,5	7,5	11,5	4	17,5	6	8
104.030.087.*	30	15,5	7,5	11,5	4	17,5	6	8
104.040.088.*	40	15,5	7,5	11,5	4	17,5	6	8

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



Bernoulli vacuum cups – Series SX-B

Non-contact vacuum suction grippers



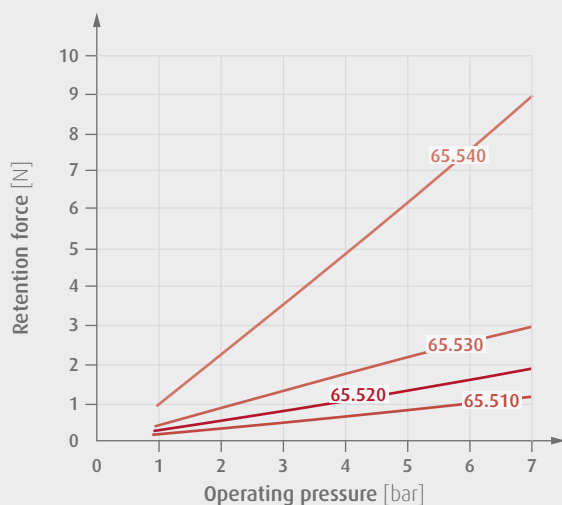
- > Integrated vacuum generation on the Bernoulli principle
- > No ejector, requires compressed air only
- > Non-contact, deformation-resistant transport of thin and sensitive products
- > High holding force: Bernoulli vacuum cups can grip up to to 600 g of mass
- > Perfectly suited for porous products thanks to high volume flow at low vacuum level
- > Easy to install, system flexibly expandable through lateral compressed air inlets
- > Long life cycle due to maintenance-free operation

Technical Data

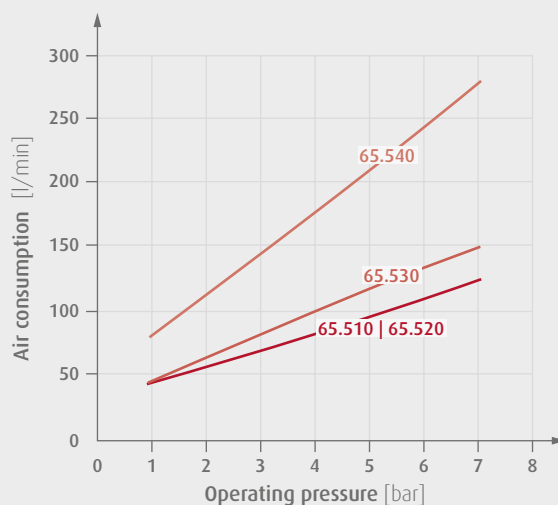
Item no.	Model	Operating pressure [bar]	Holding force at 5 bar [N]	Air consumption at 5 bar [l/min]	Ambient air temperature [°C]	Medium	Oil content of compressed air [mg/m³]	Suitable accessories
65.510	SX-B-20	1 - 7	0,9	100	5 - 60	Compressed air	0	Pads NBR 78.509 Pads SI 78.510
65.520	SX-B-30	1 - 7	1,3	100	5 - 60	Compressed air	0	Pads NBR 78.509 Pads SI 78.510
65.530	SX-B-40	1 - 7	2	110	5 - 60	Compressed air	0	Pads NBR 78.511 Pads SI 78.512
65.540	SX-B-60	1 - 7	6	210	5 - 60	Compressed air	0	Pads NBR 78.511 Pads SI 78.512

Diagrams

> Holding force as a function of operating pressure

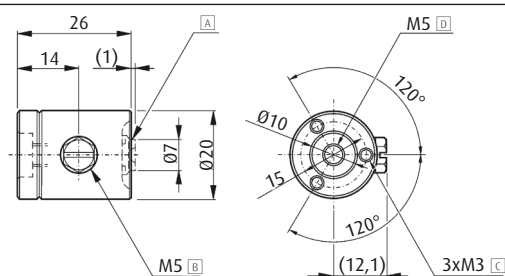


> Air consumption depending on operating pressure

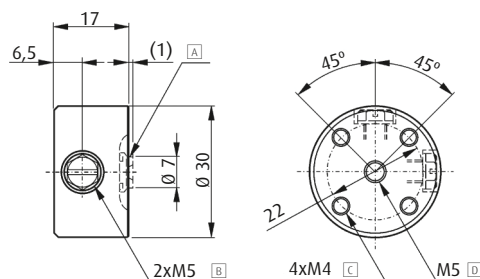




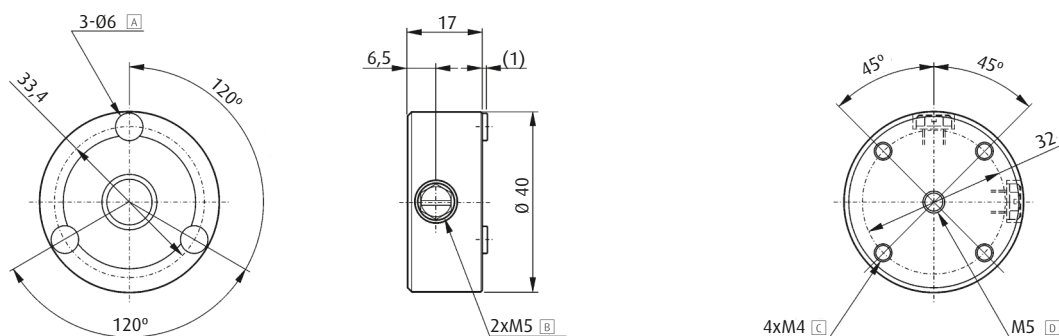
Dimensions



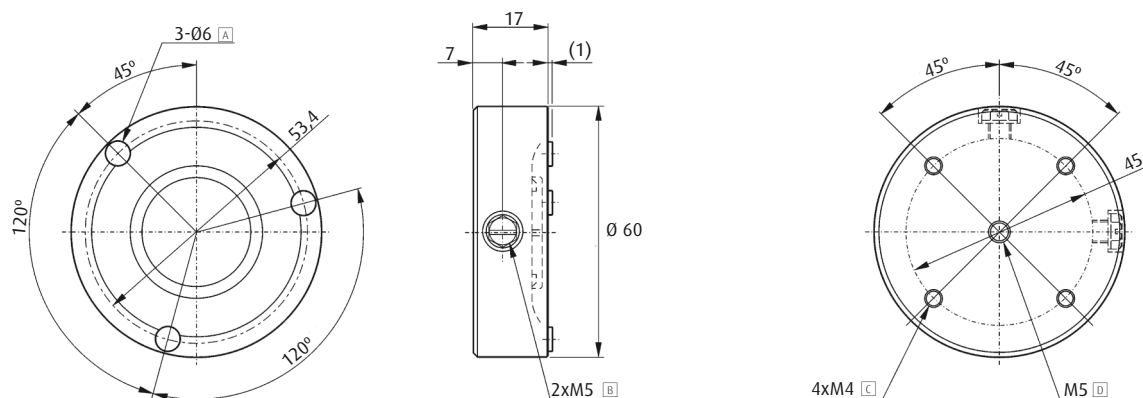
65.510



65.520



65.530



65.540

[A] = Silicone rubber pads (with 65.530 and 65.540 the pads can be removed in case of contact-less application)

[B] = Pneumatic connection

[C] = Depth 5 mm

[D] = Pneumatic connection



Hand grippers – SX-G



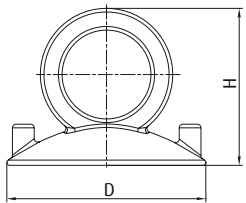
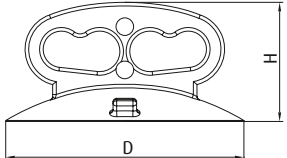
Product Description

Sturdy gripper for the manual handling of flat, smooth products. No vacuum source required. Simple handling. Release of the product via a release button.

Technical Data

Item no.	Model / Lip dimensions	Tearing force [kg]	Material / color
64.001._*	SX-G-55	14	Vinyl (sw)
64.002._*	SX-G-65	19	Vinyl (sw)
64.003._*	SX-G-75	22	Vinyl (sw)
64.004._*	SX-G-125	25	NBR (sw)
64.005._*	SX-G-130	28	Vinyl (sw)

Dimensions

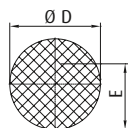
 <p>Ø 55 63 mm</p>	 <p>Ø 78 128 131 mm</p>
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Item no.	Ø D [mm]	H [mm]
64.001._*	55	43
64.002._*	63	45
64.003._*	78	42
64.004._*	128	51
64.005._*	131	66



Sealing cord, round – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

Item no.	Model / Lip dimensions	Recommended installation depth E [mm]	Material / color
231.05.026.12	SX-D-5	3,7	CR (sw)
231.06.011.12	SX-D-6	4,5	CR (sw)
231.08.012.12	SX-D-8	6	CR (sw)
231.10.013.12	SX-D-10	7	CR (sw)
231.12.014.12	SX-D-12	8,5	CR (sw)

Dimensions

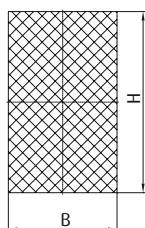
Ø D [mm]
5
6
8
10
12

Ordering notes

Minimum standard length: 1000 mm

Sealing cord, rectangular – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

Item no.	Model / Lip dimensions	Material / color
231.10x6.006.12	SX-D-10x6	CR (gr)
231.20x10.027.12	SX-D-20x10	EPDM (sw)

Dimensions

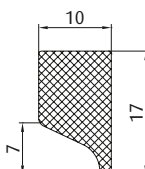
B [mm]	H [mm]
6	10
10	20

Ordering notes

Minimum standard length: 1000 mm

Sealing cord, profiled – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

Item no.	Material / color
231.17x10.025.12	NR (gr)

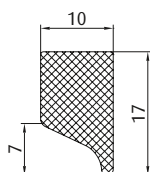
Ordering notes

Minimum standard length: 1000 mm



Sealing cord, profiled – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

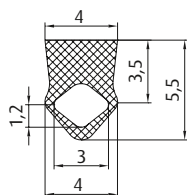
Item no.	Material / color
231.14x8x2.009.12	Sponge rubber (gr)

Ordering notes

Minimum standard length: 1000 mm

Sealing cord, profiled – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

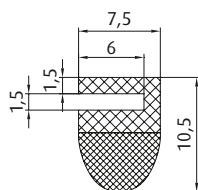
Item no.	Material / color
231.5,5x4.015.2tr	SI (tr)

Ordering notes

1 packaging unit = 25 m

Sealing cord, profiled – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

Item no.	Material / color
231.10,5x7,5.001.12	EPDM (sw) - 80/30° Shore

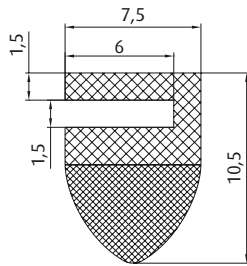
Ordering notes

Minimum standard length: 1000 mm



Sealing cord, profiled – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

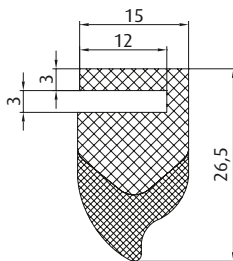
Item no.	Material / color
231.10,5x7,5.002.12	EPDM (sw) - 80/30° Shore

Ordering notes

Minimum standard length: 1000 mm

Sealing cord, profiled – Series SX-D

Long-length version for production of individual vacuum suction plates



Technical Data

Item no.	Material / color
231.26,5x15.003.12	EPDM (sw) - 80/30° Shore

Ordering notes

Minimum standard length: 1000 mm