



### FIPA Special vacuum cups SX



#### Temperature-resistant, felt coated vacuum cups - SX-F

- > Virtually mark-free special vacuum cups for high temperature requirements, e.g. in the glass industry
- > Highest temperature resistance (FKM briefly up to 300 °C; special silicone with an evaporated silicone lock made of aluminium briefly up to 500 °C)
- > Special felt pad vulcanised inseparably to elastomer carrier
- > Diameter: 25 - 160 mm

> See page 164



#### Vacuum cups with sponge pad - SX-SH

- > Flat vacuum cups with contact surface made from special silicone sponge
- > Very low-marking on polished surfaces
- > Flat sealing prevents leakage for rough, porous surfaces
- > Diameter: 8 - 40 mm

> See page 166



#### Bernoulli vacuum cups - SX-B

- > Non-contact, deformation-resistant transport of thin and sensitive products
- > No ejector, requires compressed air only
- > High holding force: Bernoulli vacuum cups can move up to 1,200 g of mass
- > Perfectly suited for porous products thanks to high volume flow at low vacuum level
- > Series made of PEEK (approval according to FDA / EC 1935 / 2004) for direct contact with food and ease of cleaning

> See page 498



#### Foam grippers

- > Handling of individual products or layers without the need to change the gripper and regardless of workpiece positioning
- > Integrated vacuum generation or external compressor for use with particularly air-permeable workpieces
- > Versions available with leakage reduction or flow valves

> See page 477



### FIPA Special vacuum cups SX



#### **Hand grippers - SX-G**

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

> See page 168



#### **Sealing cords - SX-D**

- > Long-length version for DIY production of individual vacuum suction plates
- > Ideal adaptation to special product shapes

> See page 169



## Series | Special vacuum cups SX

High temperature vacuum cups with felt pad - SX-F

### High temperature vacuum cups with felt pad - SX-F

**HEAT RESISTANT  
& LOW MARKING**



#### Product Description

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


#### Advantage

- > Temperature-resistant up to 500 °C (SI)
- > Almost mark-free
- > Cost-effective replacement of worn seals


#### Notes:

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 / Colour	Number of bellows
26.025.009._*	SX-F-25	2	6	500	SI (tr/ge)	--
26.037.010._*	SX-F-40	3	10	500	SI (tr/ge)	--
26.070.011._*	SX-F-70	7	24	500	SI (tr/ge)	--
26.090.001._*	SX-F-90	17	80	500, 300	SI (tr/ge), FKM (sw/ge)	1.5
26.120.002._*	SX-F-120	18	140	300	FKM (sw/ge)	1.5
26.160.003._*	SX-F-160	18	205	300	FKM (sw/ge)	1.5

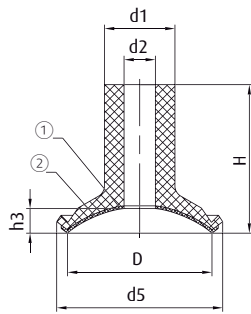
#### Accessories

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.417)	270.114 (p.422)	270.208 (p.425)	270.178 (p.431)	--
26.037.010._*	270.132 (p.417)	270.114 (p.422)	270.208 (p.425)	270.178 (p.431)	--
26.070.011._*	270.132 (p.417)	270.114 (p.422)	270.208 (p.425)	270.178 (p.431)	--
26.090.001._*	--	--	--	--	270.400 (p.436)
26.120.002._*	--	--	--	--	270.402 (p.436)
26.160.003._*	--	--	--	--	270.404 (p.436)

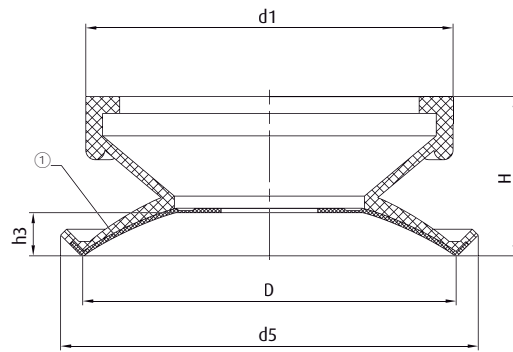
\* When ordering please add the appropriate material code to item no. You will find it in the foldout. Average holding forces for vacuum cups you will find on page 760



Dimensions



Drawing A



Drawing B

① = Felt pads ② = For silicone vacuum cups: Silicone membrane by evaporated aluminium layer

Item no.	Drawing	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d5 [mm]	H [mm]	h3 [mm]
26.025.009.*	A	24	16	8	29	36	3.3
26.037.010.*	A	37	18	8	42	38	6.5
26.070.011.*	A	67	21	8	71	36	8
26.090.001.*	B	89	87	--	99	38	10.5
26.120.002.*	B	120	108	--	129	45	17.5
26.160.003.*	B	150	130	--	161	48	16.5

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Average holding forces for vacuum cups you will find on page 760



## Series | Special vacuum cups SX

Vacuum cups with sponge pad - SX-SH

### Vacuum cups with sponge pad - 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-in 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 / Colour
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)

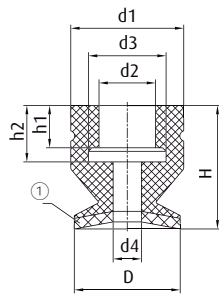
#### Accessories

Item no.	Suitable fittings					Suitable spring levelers (Snap-In)					
	M5-male	G1/8-male	G1/8-female	G1/4-male	G1/4-female	Spring leveler	↓	Spring leveler	↓	Spring leveler	↓
104.008.082.*	270.200 (p.411)	270.064 (p.418)	270.065 (p.422)	--	--	50.018 (p.454)	8.5	50.141 (p.456)	10	--	--
104.009.083.*	270.200 (p.411)	270.064 (p.418)	270.065 (p.422)	--	--	50.018 (p.454)	8.5	50.141 (p.456)	10	--	--
104.013.084.*	270.200 (p.411)	270.064 (p.418)	270.065 (p.422)	--	--	50.018 (p.454)	8.5	50.141 (p.456)	10	--	--
104.015.085.*	--	270.012 (p.421)	270.020 (p.423)	270.034 (p.428)	270.038 (p.432)	50.005 (p.456)	5	50.145 (p.456)	10	50.146 (p.456)	30
104.020.086.*	--	270.012 (p.421)	270.020 (p.423)	270.034 (p.428)	270.038 (p.432)	50.005 (p.456)	5	50.145 (p.456)	10	50.146 (p.456)	30
104.030.087.*	--	270.012 (p.421)	270.020 (p.423)	270.034 (p.428)	270.038 (p.432)	50.005 (p.456)	5	50.145 (p.456)	10	50.146 (p.456)	30
104.040.088.*	--	270.012 (p.421)	270.020 (p.423)	270.034 (p.428)	270.038 (p.432)	50.005 (p.456)	5	50.145 (p.456)	10	50.146 (p.456)	30

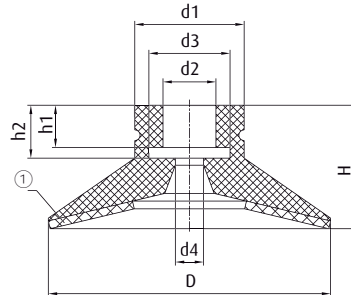
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Average holding forces for vacuum cups you will find on page 760



### Dimensions



Drawing A



Drawing B

① = Silicone sponge

Item no.	Drawing	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	Ø d4 [mm]	H [mm]	h1 [mm]	h2 [mm]
104.008.082._*	A	8	10.5	5	7	3	14	3	5
104.009.083._*	A	9	10.5	5	7	3	14	3	5
104.013.084._*	A	13	10.5	5	7	3	14	3	5
104.015.085._*	A	15	15.5	7.5	11.5	4	17.5	6	8
104.020.086._*	A	20	15.5	7.5	11.5	4	17.5	6	8
104.030.087._*	B	30	15.5	7.5	11.5	4	17.5	6	8
104.040.088._*	B	40	15.5	7.5	11.5	4	17.5	6	8

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## Series | Special vacuum cups SX

### Hand grippers - SX-G

#### Hand grippers - SX-G



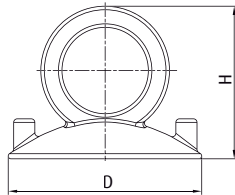
#### Product Description

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

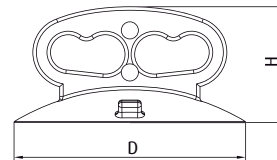
#### Technical data

Item no.	Model / Lip dimensions	Tearing force [kg]	Material / Colour
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



Drawing A



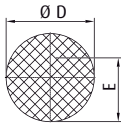
Drawing B

Item no.	Drawing	Ø D [mm]	H [mm]
64.001.*	A	54	42
64.002.*	A	66	48
64.003.*	B	82	42
64.004.*	B	115	63
64.005.*	B	121	65



### Sealing cord, round - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

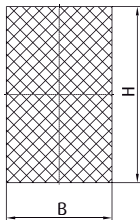
Item no.	Model / Lip dimensions	Recommended installation depth E [mm]	Material / Colour	Dimensions	
				Ø D [mm]	
231.05.026.12	SX-D-5	3.7	CR (sw)	5	
231.06.011.12	SX-D-6	4.5	CR (sw)	6	
231.08.012.12	SX-D-8	6	CR (sw)	8	
231.10.013.12	SX-D-10	7	CR (sw)	10	
231.12.014.12	SX-D-12	8.5	CR (sw)	12	

#### Ordering notes:

Minimum standard length: 1,000 mm

### Sealing cord, rectangular - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

Item no.	Model / Lip dimensions	Material / Colour	Dimensions	
			B [mm]	H [mm]
231.10x6.006.12	SX-D-10x6	CR (gr)	6	10
231.20x10.027.12	SX-D-20x10	EPDM (sw)	10	20

#### Ordering notes:

Minimum standard length: 1,000 mm

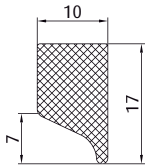




## Series | Special vacuum cups SX

### Sealing cord, profiled - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

Item no.

231.17x10.025.12

Material / Colour

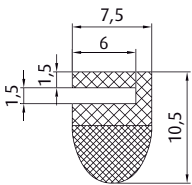
NR (gr)

#### Ordering notes:

Minimum standard length: 1,000 mm

### Sealing cord, profiled - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

Item no.

231.10,5x7,5.001.12

Material / Colour

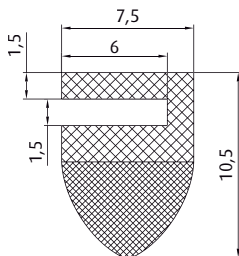
EPDM (sw) - 80°/30° Shore A

#### Ordering notes:

Minimum standard length: 1,000 mm

### Sealing cord, profiled - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

Item no.

231.10,5x7,5.002.12

Material / Colour

EPDM (sw) - 80°/30° Shore A

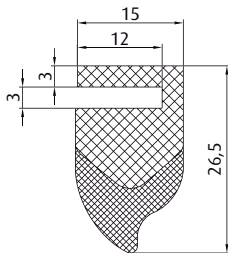
#### Ordering notes:

Minimum standard length: 1,000 mm



### Sealing cord, profiled - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

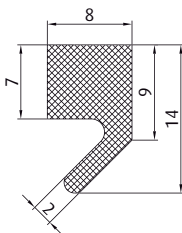
<b>Item no.</b>	<b>Material / Colour</b>
<b>231.26,5x15.003.12</b>	EPDM (sw) - 80°/30° Shore A

#### Ordering notes:

Minimum standard length: 1,000 mm

### Sealing cord, profiled - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

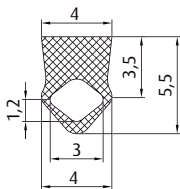
<b>Item no.</b>	<b>Material / Colour</b>
<b>231.14x8x2.009.12</b>	Sponge rubber (gr)

#### Ordering notes:

Minimum standard length: 1,000 mm

### Sealing cord, profiled - SX-D

Long-length version for production of individual vacuum suction plates



#### Technical data

<b>Item no.</b>	<b>Material / Colour</b>
<b>231.5,5x4.015.2tr</b>	SI (tr)

#### Ordering notes:

1 packaging unit = 25 m