

	Seite/ <i>page</i>
Branchen/Branches	Verpackung <i>Packaging</i> 1.001 - 1.011
	Blech, Metall <i>Sheet, Metal</i> 1.012 - 1.014
	Lebensmittel - Handling von Backwaren <i>Food - Handling of Bakery Products</i> 1.015 - 1.023
	Lebensmittel - Handling von Pralinen <i>Food - Handling of Pralines</i> 1.0124
	Lebensmittel - Handling von Eiern <i>Food - Handling of Eggs</i> 1.025 - 1.026
	Lebensmittel - Handling von Käse <i>Food - Handling of Cheese</i> 1.027 - 1.028
	Lebensmittel - Rechtecksauger <i>Food - Rectangular Vacuum Cups</i> 1.029
	Glas <i>Glass</i> 1.030 - 1.033
	Druckindustrie <i>Printing Industry</i> 1.034 - 1.069

Hinweis:

Unser gesamtes Sortiment finden Sie unter www.mf-automation.com

Note:

Our entire range can be found at www.mf-automation.com

Verpackungsindustrie PH.01.I „SoftPack“

Packaging Industry PH.01.I „Soft Pack“

Einsatzbereich

- Zum Handling von forminstabilen Beuteln und vielen unterschiedlichen Folienverpackungen.
- Sicheres Greifen und Handhaben von Beuteln mit festem, pulverförmigem oder auch flüssigem Inhalt.
- Temperaturbeständigkeit -40° - +180° C



Use

- For handling of dimensionally stable bags and many different foil packagings.
- Secure gripping and handling of bags with powdery or also liquid content.
- Temperature resistant -40° - +180° C

Vorteile

- Exzellente Abdichtung auf Beuteln, Folien und anderen flexiblen Verpackungen ohne Leckverlust.
- Die flexible Dichtlippe, erhältlich in Shorehärten von 20° (rot) und 40° (blau), wird bei komprimierten Falten nicht beeinträchtigt.
- Die flexiblen Balgen mit 5,5 Falten haben unterschiedliche Hübe von 10, 12 und 15 mm und gleichen Höhendifferenzen aus.
- Abstützgitter rund oder flach zur Verhinderung des Folieneinzugs.
- Ausgelegt für den Betrieb mit Vakuumpumpen, Gebläsen und Mehrstufen-ejektoren.

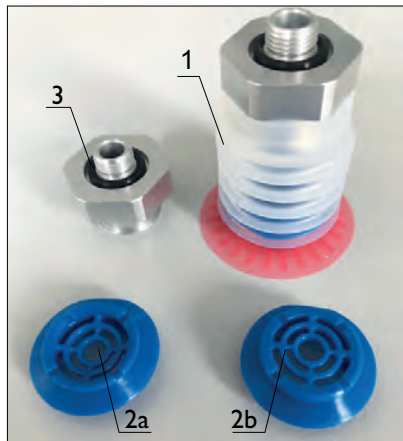


Advantages

- Excellent sealing on packaging bags, foils and other flexible packagings.
- The flexible sealing lip with Shore-hards of 20° (red) and 40° (blue), will not be impaired at compressed folds.
- The flexible bellows with 5.5 folds with different strokes at 10, 12 and 15 mm equal height differences.
- Supporting grips round or flat prevent the foil insert.
- Designed for working with vacuum pumps, blowers or multi stage vacuum generators.

Aufbau

- 1 Balgen mit 5,5 Falten und aufvulkanisierter Dichtlippe (Material Silikon FDA konform).
- 2 Abstützgitter rund (2a) und flach (2b) für die untere Saugerfalte.
- 3 Anschlusssteile mit Außengewinde sind mit einem integrierten O-Ring versehen.

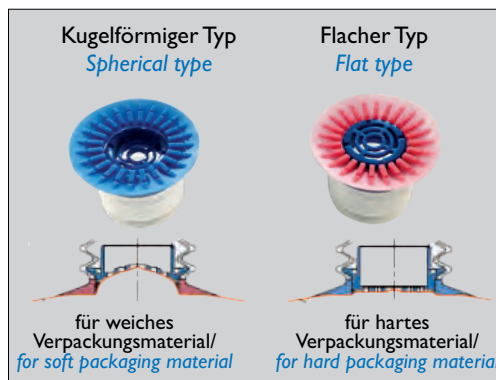


Construction

- 1 Bellows with 5.5 folds and vulcanized sealing lip (material Silicone FDA conform).
- 2 Supporting grip round (2a) and flat (2b) for the lower suction fold.
- 3 Fittings with male thread are provided with an integrated O-ring.

Hinweise

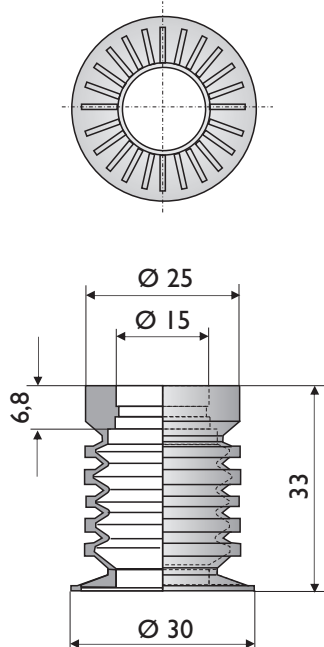
- Das kugelförmige Abstützgitter (rund) wird für sehr weiches Verpackungsmaterial verwendet.
- Das flache Abstützgitter wird bei stabilerem Verpackungsmaterial eingesetzt.



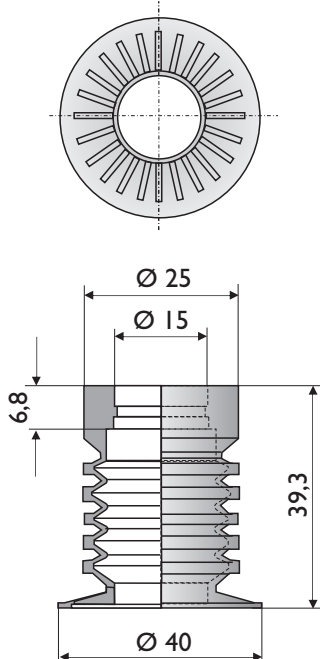
Note

- The spherical type supporting grip (round) will be used at very soft packaging material.
- The flat type supporting grip will be used at more stable packaging material.

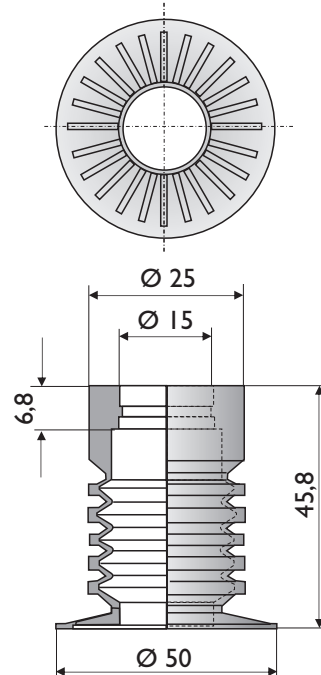
Balgensauger/Bellows suction cups



B50.030.9.S20° Shore (rote Lippe/red lip)
 B50.030.9.S40° Shore (blaue Lippe/blue lip)



B50.040.9.S20° Shore (rote Lippe/red lip)
 B50.040.9.S40° Shore (blaue Lippe/blue lip)



B50.050.9.S20° Shore (rote Lippe/red lip)
 B50.050.9.S40° Shore (blaue Lippe/blue lip)

Standard-Anschlusssteile/Fittings Standard

Material: Aluminium eloxiert/
 Aluminum anodized

- 01 AT.0906 - AG 1/8"
- 02 AT.0907 - AG 1/4"
- 03 AT.0908 - AG 3/8"



Weitere, lieferbare Anschlusssteile/
 Other fittings available:

- AT.0902 - AG M5x0,8
- AT.0903 - AG M6x1
- AT.0904 - AG M8x1
- AT.0905 - AG M14x1
- AT.0909 - AG G1/2"

Balgensauger mit roter Lippe (20° Shore)
 Bellows suction cup with red lip (20° Shore)

- 01 B50.030.9.S20°
- 02 B50.040.9.S20°
- 03 B50.050.9.S20°



Balgensauger mit blauer Lippe (40° Shore)
 Bellows suction cup with blue lip (40° Shore)

- 01 B50.030.9.S40°
- 02 B50.040.9.S40°
- 03 B50.050.9.S40°

Abstützgitter runder Typ
 Support grids round type

- 01 ASG.030.001.R Ø 30 mm
- 02 ASG.040.001.R Ø 40 mm
- 03 ASG.050.001.R Ø 50 mm



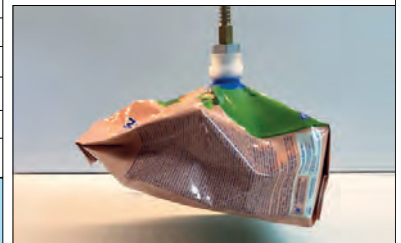
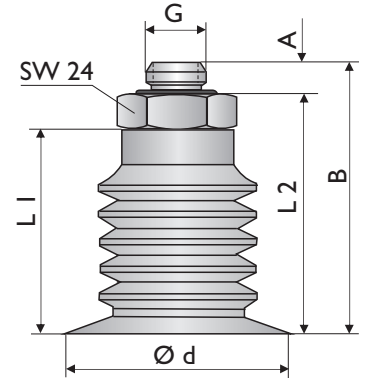
Abstützgitter flacher Typ
 Support grids flat type

- 01 ASG.030.001.F Ø 30 mm
- 02 ASG.040.001.F Ø 40 mm
- 03 ASG.050.001.F Ø 50 mm

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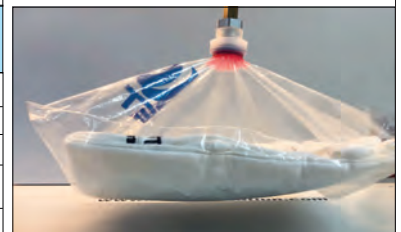
Art. No.	Shore	Ø d	G	A	B	L I	L2	Hub/ Stroke mm	Gewicht/ Weight g
Balgsauger Ø 30 mm komplett mit Abstützgitter rund und Anschlusssteil. <i>Bellows Suction Cups dia. 30 mm complete with support grip round and fitting.</i>									
01 B52.030.906.S20			G1/8	5,3	45,9				
02 B52.030.907.S20	20°	30	G1/4	6,4	47,0	33	40,6	10	19
03 B52.030.908.S20			G3/8	7,9	48,5				
01 B52.030.906.S40			G1/8	5,3	45,9				
02 B52.030.907.S40	40°	30	G1/4	6,4	47,0	33	40,6	10	19
03 B52.030.908.S40			G3/8	7,9	48,5				
Balgsauger Ø 30 mm komplett mit Abstützgitter flach und Anschlusssteil. <i>Bellows Suction Cups dia. 30 mm complete with support grip flat and fitting.</i>									
01 B52.030.916.S20			G1/8	5,3	45,9				
02 B52.030.917.S20	20°	30	G1/4	6,4	47,0	33	40,6	10	19
03 B52.030.918.S20			G3/8	7,9	48,5				
01 B52.030.916.S40			G1/8	5,3	45,9				
02 B52.030.917.S40	40°	30	G1/4	6,4	47,0	33	40,6	10	19
03 B52.030.918.S40			G3/8	7,9	48,5				
Balgsauger Ø 40 mm komplett mit Abstützgitter rund und Anschlusssteil. <i>Bellows Suction Cups dia. 40 complete with support grip round and fitting.</i>									
01 B52.040.906.S20			G1/8	5,3	52,2				
02 B52.040.907.S20	20°	40	G1/4	6,4	53,3	39,3	46,9	12	22
03 B52.040.908.S20			G3/8	7,9	54,8				
01 B52.040.906.S40			G1/8	5,3	52,2				
02 B52.040.907.S40	40°	40	G1/4	6,4	53,3	39,3	46,9	12	22
03 B52.040.908.S40			G3/8	7,9	54,8				
Balgsauger Ø 40 mm komplett mit Abstützgitter flach und Anschlusssteil. <i>Bellows Suction Cups dia. 40 complete with support grip flat and fitting.</i>									
01 B52.040.916.S20			G1/8	5,3	52,2				
02 B52.040.917.S20	20°	40	G1/4	6,4	53,3	39,3	46,9	12	22
03 B52.040.918.S20			G3/8	7,9	54,8				
01 B52.040.916.S40			G1/8	5,3	52,2				
02 B52.040.917.S40	40°	40	G1/4	6,4	53,3	39,3	46,9	12	22
03 B52.040.918.S40			G3/8	7,9	54,8				
Balgsauger Ø 50 mm komplett mit Abstützgitter rund und Anschlusssteil. <i>Bellows Suction Cups dia. 50 complete with support grip round and fitting.</i>									
01 B52.050.906.S20			G1/8	5,3	58,7				
02 B52.050.907.S20	20°	50	G1/4	6,4	59,8	45,8	53,4	15	26
03 B52.050.908.S20			G3/8	7,9	61,3				
01 B52.050.906.S40			G1/8	5,3	52,2				
02 B52.050.907.S40	40°	50	G1/4	6,4	53,3	45,8	53,4	15	26
03 B52.050.908.S40			G3/8	7,9	54,8				
Balgsauger Ø 50 mm komplett mit Abstützgitter flach und Anschlusssteil. <i>Bellows Suction Cups dia. 50 complete with support grip flat and fitting.</i>									
01 B52.050.916.S20			G1/8	5,3	58,7				
02 B52.050.917.S20	20°	50	G1/4	6,4	59,8	45,8	53,4	15	26
03 B52.050.918.S20			G3/8	7,9	61,3				
01 B52.050.916.S40			G1/8	5,3	52,2				
02 B52.050.917.S40	40°	50	G1/4	6,4	53,3	45,8	53,4	15	26
03 B52.050.918.S40			G3/8	7,9	54,8				



Keksverpackungen/Bisquit Packaging



Nudelverpackungen/Noodle Packaging



Textilverpackungen/Textile Packaging



Spaghettiverpackungen/
Spaghetti Packaging

Von Ø 25 - Ø 64 mm mit austauschbarer Sauglippe / *from dia. 25 up to dia. 64 mm with replaceable suction lip*

Einsatzbereich

- Formstabiler Balgensauger mit 3,5 Falten zum Handling von forminstabilen Beuteln und vielen unterschiedlichen Folienverpackungen.
- Sicheres Greifen und Handhaben von Beuteln mit festem, pulverförmigem oder auch flüssigem Inhalt.
- Temperaturbeständigkeit -40° - +200° C

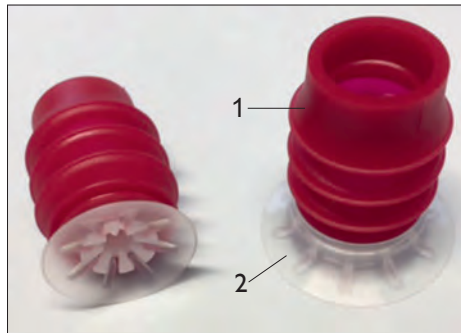


Use

- Form stable bellows suction cup with 3,5 folds for handling of dimensionally stable bags and many different foil packagings.
- Secure gripping and handling of bags with powdery or also liquid content.
- Temperature resistant -40° - +200° C

Vorteile

- Hervorragende Abdichtung auf Beuteln, Folien und anderen flexiblen Verpackungen.
- Robuster Balgen (1) mit leicht austauschbarer flexibler Sauglippe (2).
- Abstützgitter (3) zur Verhinderung des Folieneinzugs.
- Ausgelegt für den Betrieb mit Vakuum-Pumpen, Gebläsen und Mehrstufenejektoren.



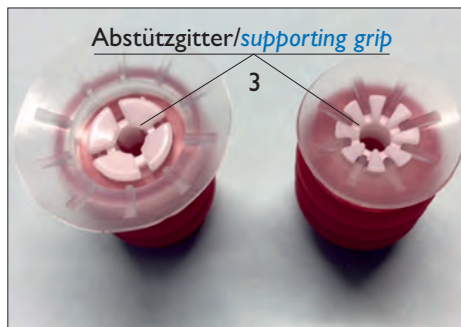
Advantages

- Excellent sealing on packaging bags, foils and other flexible packagings.
- Robust bellows (1) with easily replaceable and flexible suction lip (2).
- Supporting grips (3) prevent the foil insert.
- Designed for working with vacuum pumps, blowers or multi stage vacuum generators.

Aufbau

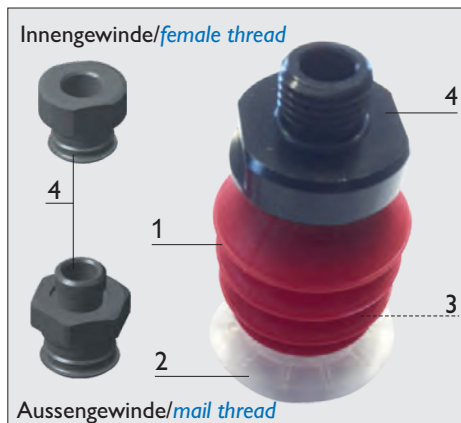
- 1 Stabiler Balgen mit 3,5 Falten aus thermoplastischem Elastomere (TPE ~85° Shore)
- 2 Weiche Dichtlippe aus transparentem Silikon (FDA konform).
- 3 Rundes Abstützgitter für die untere Saugerfalte.
- 4 Anschlusssteile mit Außen- und Innengewinde mit 1/8" - 1/4" - 3/8" - 1/2".

Alle Positionen von 1 - 4 sind als Ersatzteile lieferbar.



Construction

- 1 Stable bellows suction cup with 3,5 folds made of thermoplastic Elastomere (TPE ~85° Shore).
- 2 Soft sealing lip made of transparent Silicone (FDA conform).
- 3 Round supporting grip for the lower cup fold.
- 4 Fittings with male and female thread with 1/8" - 1/4" - 3/8" - 1/2".



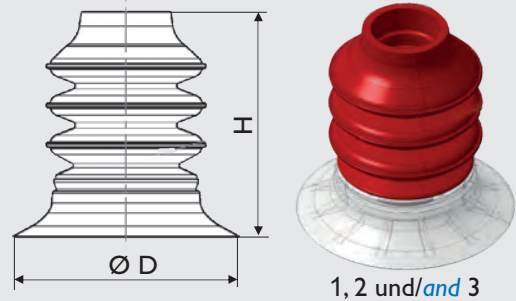
All positions from 1 to 4 are available as spare parts.

Verpackungsindustrie PH.01.2

Packaging Industry PH.01.2

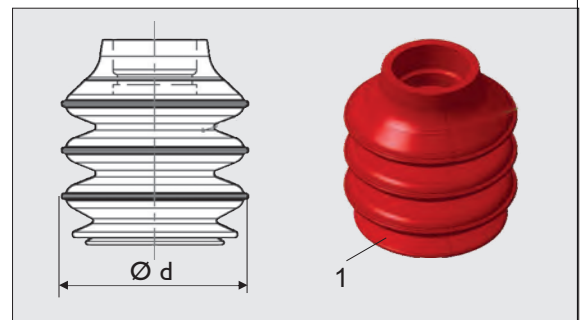
Spezialsauger mit Balgen (1), Sauglippe (2), Abstützgitter (3)
Special suction cups with bellows (1), suction lip (2), supporting grip (3)

Pos.	Art.No.	Ø D	H	Hub/ Stroke mm	Gewicht/ Weight g
01	B30.025.010.S	25	34	10	5
02	B30.034.010.S	34	38	11	6
03	B30.041.010.S	41	46	14	13
04	B30.048.010.S	48	48	15	14
05	B30.064.010.S	64	63	16	40



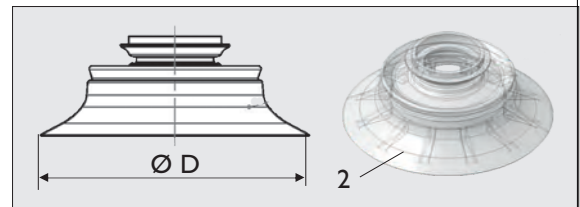
Ersatzteile: Balgen 3,5 Falten
Spare parts: bellows 3,5 folds

Pos.	Art.No.	Ø d
01	BK3.025.010.TPE	24
02	BK3.034.010.TPE	24
03	BK3.041.010.TPE	34
04	BK3.048.010.TPE	34
05	BK3.064.010.TPE	49



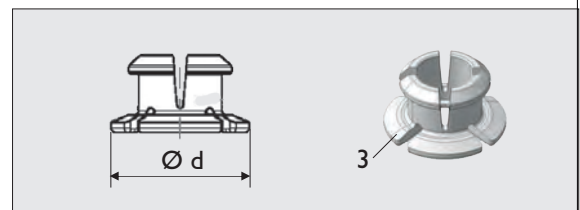
Ersatzteile: Saugerlippe (Silikon)
Spare parts: suction lip (Silicone)

Pos.	Art.No.	Ø D
01	BLF.025.010.S	25
02	BLF.034.010.S	34
03	BLF.041.010.S	41
04	BLF.048.010.S	48
05	BLF.064.010.S	64



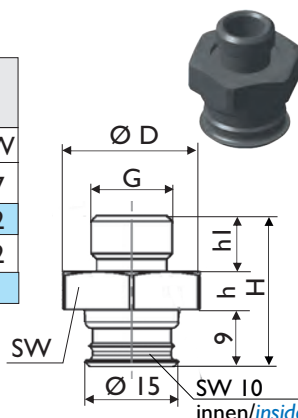
Ersatzteile: Abstützgitter (POM)
Spare parts: support grip (POM)

Pos.	Art.No.	Ø d
01	BAG.025.010.POM	13
02	BAG.034.010.POM	14
03	BAG.041.010.POM	20
04	BAG.048.010.POM	20
05	BAG.064.010.POM	29



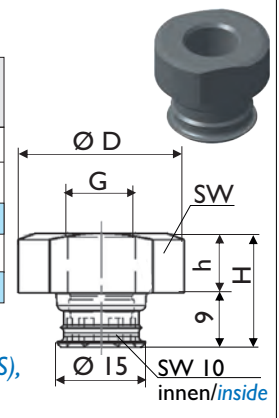
Anschlusssteile (Aussengewinde)
Fittings (male thread)

Art. No.	G	H	h	h1	D	SW
AT.0845.FS	1/8"	20	5	6	19	17
AT.0846.FS	1/4"	24	6	9	28	22
AT.0847.FS	3/8"	25	6	10	28	22
AT.0848.FS	1/2"	25	6	10	28	--



Anschlusssteile (Innengewinde)
Fittings (female thread)

Art. No.	G	H	h	D	SW
AT.0835.FS	1/8"	16	7	19	17
AT.0836.FS	1/4"	19	10	28	22
AT.0837.FS	3/8"	22	13	28	22
AT.0838.FS	1/2"	23	14	28	--



Alle Anschlusssteile mit Filtersieb (FS),
passend für alle Artikel.

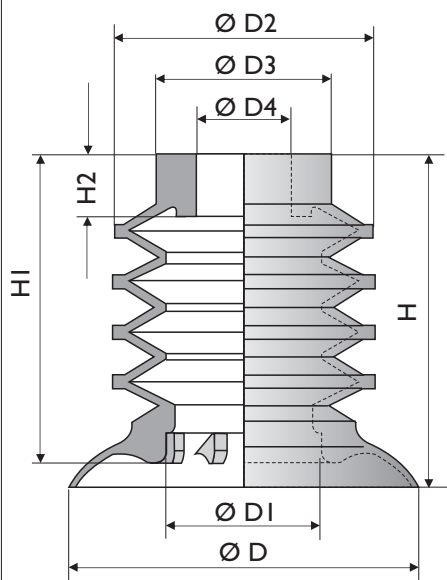
All fittings with built-in mesh filter (FS),
suitable for all items.

Vorteile:

- Dünne Dichtlippe mit Abstützungen
- Sicheres Greifen von befüllten Beuteln und Folienverpackungen
- Positionsstabil durch verstärkte Saugerfalten

Advantages:

- Thin sealing lips with supports
- Safe gripping of filled bags and foil wrapping
- Position stable through reinforced suction folds



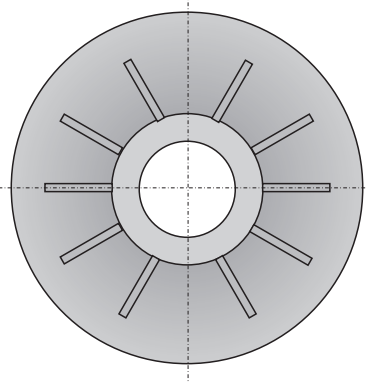
Pos.	Art. No.	Abmessungen/ <i>Dimensions</i>								Hub/ <i>Stroke</i> mm	Gewicht/ g <i>Weight</i>	Anschluss teil <i>Fitting</i>	
		D	D1	D2	D3	D4	H	H1	H2				
1	B30.031.001.*	31	10,5	25	25	8,5	36	34	6	9	10	AT.0850	AT.0612
2	B30.041.001.*	41	16,5	33	21	11,5	40	38	7	10	13	AT.0851	AT.0049
3	B30.051.001.*	51	19,5	40	40	15,5	50	49	7	14	29	AT.0852	

* Material:

Silikon rot/red 40° ±5° Shore

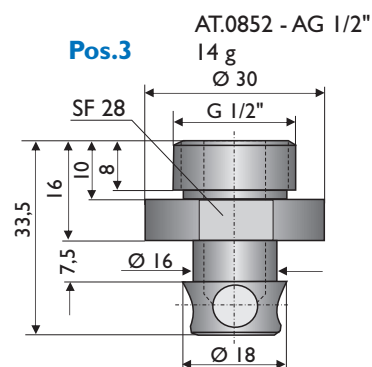
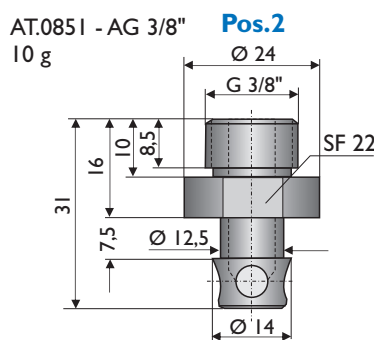
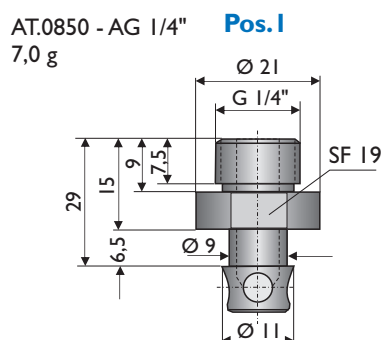
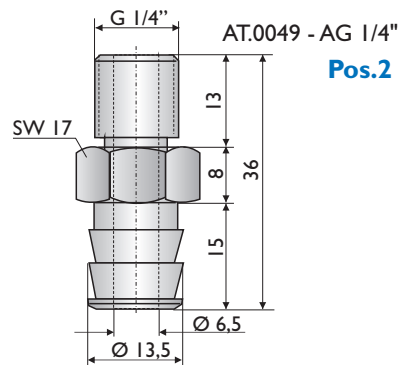
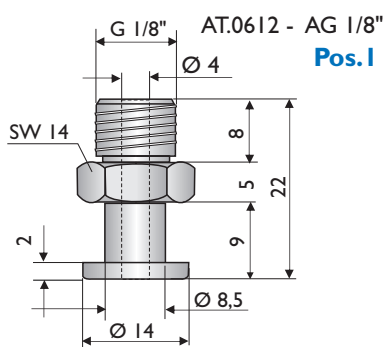
Temperaturbeständigkeit/

Temperature resistance: -40° - +200° C



Anschlussstücke/Fittings

Material Alu



Verpackungsindustrie PH.01.4

Packaging Industry PH.01.4

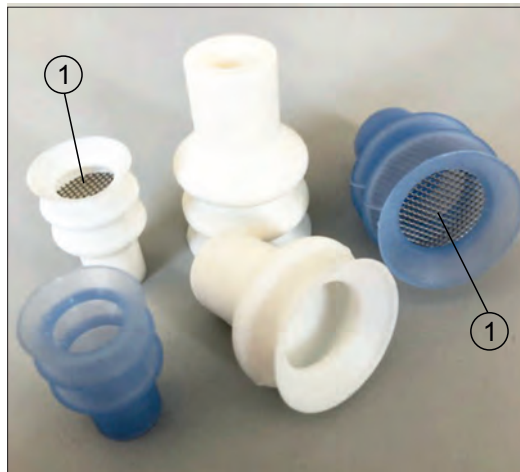
Einsatzbereich

- Verpackungsindustrie
- Lebensmittelindustrie
- Pharmaindustrie

Vorteile

- Extrem dünne, anpassungsfähige Sauglippe
- Greifen von unebenen Teilen mit filigranen Oberflächen
- Kein Leckverlust auch bei überlappten Cellophanverpackungen
- Geeignet für unverpackte Lebensmittel oder Pharmaartikel (FDA zertifiziert)

- Optional mit Abstützgitter (Feinfilter) zum Einbau in die untere Saugerfalte (1), siehe Seite I.009.



Use

- Packaging Industry
- Food Industry
- Pharma Industry

Advantages

- Extremely thin pliable suction lip
- Gripping of uneven parts with filigree surfaces
- No leakage loss also with overlapped cellophane packaging
- Suitable for unpacked food or pharmaceutical articles (FDA certified)

- Optionally with support grid (fine filter) for installation in the lower suction fold (1), see page I.009.

Art. No.: B20.020.003.*

Hub/*Stroke*: 13 mm
Gewicht/*Weight*: 3 g

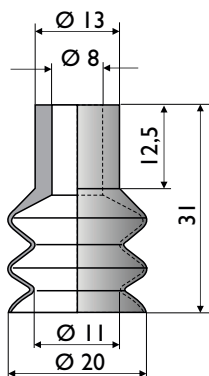
*Material:
Silikon weiss/*white* FDA 35° Shore

Art. No.: 01 20 30*

*Material:
Silikon klarblau/*clear-blue* FDA 40° Shore

Anschlusssteile/*Fittings*

AT.0132 - AG 1/8"
AT.0240 - IG 1/8"



Art. No.: B20.030.001.*

Hub/*Stroke*: 20 mm
Gewicht/*Weight*: 7 g

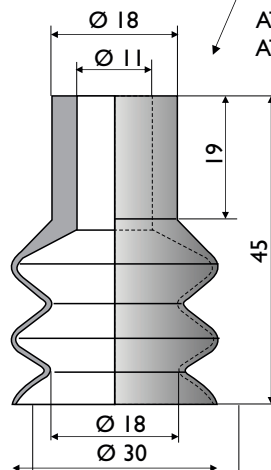
*Material:
Silikon weiss/*white* FDA 35° Shore

Art. No.: 01 30 45*

*Material:
Silikon klarblau/*clear-blue* FDA 40° Shore

Anschlusssteile/*Fittings*

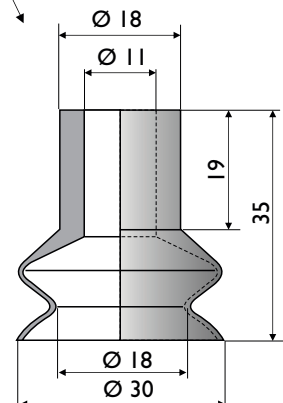
AT.0723 - AG 1/8"
AT.0603 - AG 1/4"
AT.0031 - IG 1/4"



Art. No.: B10.030.006.*

Hub/*Stroke*: 12 mm
Gewicht/*Weight*: 5 g

*Material:
Silikon weiss/*white* FDA 35° Shore

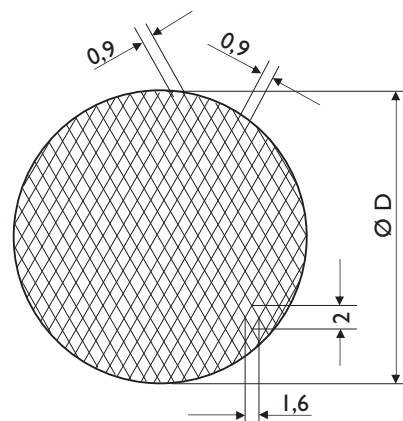


Abstützgitter (Feinfilter)
Support Grids (Fine Filters)

Einsatz: Zum Einbau in Balgensauger
 Material: Edelstahl (für Lebensmittel geeignet)

Use: For installation in bellows suction cups
Material: Stainless steel (suitable for food)

Art. No.	Ø D/Dia. mm	Dicke Thickness mm	Für Vakuumsauger For vacuum suction cup
00 08 295	17	0,3	B20.020.003 - 01 20 30
00 08 293	27	0,3	B20.030.001 - 01 30 45 - B10.030.006



- Weitere Einsatzbeispiele in Verbindung mit Mini-Förderejektoren der Serie FE (Technische Daten siehe Kapitel Vakuumejektoren).
- *Further application examples in connection with Mini-Vacuum Conveyor of the series FE (Technical Data see chapter Vacuum Ejectors).*



Einsatzbeispiel:
 Überlappte Cellophanverpackung

*Use example:
 with overlapped cellophane packaging*



Verpackungsindustrie PH.01.5

Packaging Industry PH.01.5

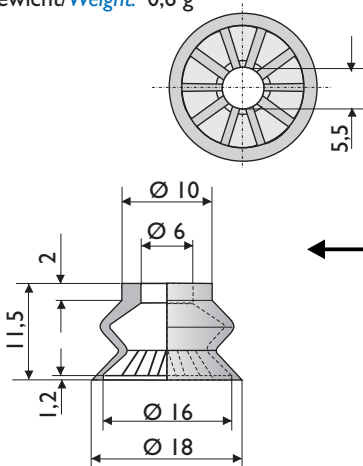
Einatzbereich

- Biegeschlaiffe Teile
- In Folien verpackte Schüttgüter

Art. No.: B10.018.001.*

Hub/*Stroke*: 6,0 mm

Gewicht/*Weight*: 0,6 g



*Material:

NR blau/*blue* 40° Shore
 Silikon transparent 20°/30°/50° Shore
 CR schwarz/*black* 50° Shore
 NBR schwarz/*black* 60° Shore

Auf Anfrage/*On request*:

NBR 40° Shore
 Silikon 40°/60° Shore
 Silikon rot/*red* 40° Shore
 Silikon antistatisch/*antistatic* 50° Shore

Anschlussteile/*Fittings*

AT.0200 - AG M5
 AT.0077 - AG 1/8"
 AT.0717 - AG 1/8" + IG M5



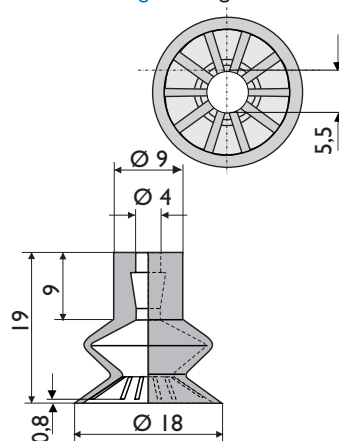
Use

- *Pliable parts*
- *In foils packed bulk materials*

Art. No.: B10.018.002.*

Hub/*Stroke*: 5,5 mm

Gewicht/*Weight*: 2,0 g



*Material:

NR blau/*blue* 40° Shore
 Silikon transparent 50° Shore

Anschlussteile/*Fittings*

AT.0134 - AG M5
 AT.0104 - AG M6
 AT.0539 - AG 1/8"

Art. No.: B10.018.006.*

Hub/*Stroke*: 5,5 mm

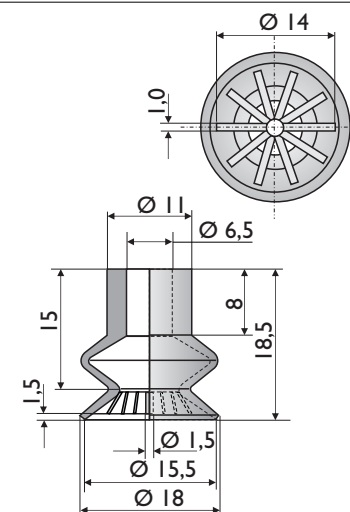
Gewicht/*Weight*: 2,0 g

*Material:

Silikon transparent 55° Shore
 NR rot/*red* 40° Shore

Anschlussteile/*Fittings*

AT.0702 - AG M5
 AT.0238 - AG 1/8" + IG M5
 AT.0567 - AG 1/8"
 AT.0504 - AG 1/4"



Die Spezial-Balgensauger sind eine Innovation in der Vakuumtechnik. Die Besonderheiten dabei sind die unten, an der Saugfläche angebrachten Abstützrippen, die mit der Sauglippe abschließen.

The special bellows vacuum cups are an innovation in the vacuum technology. The special features are the cleats attached on the button of the suction flat, and which terminate with it.

Einsatzbereich

- Stabile Alufolien (z.B. Molkereiindustrie)

Vorteile:

- Keine sichtbaren Abdrücke oder Verformungen nach dem Anheben von dünnen Aluminiumfolien, z.B. Deckel von Verpackungen, auch aus der Lebensmittelindustrie.
- Keine Beschädigungen (Brechen) von empfindlichen und sehr dünnen Werkstücken (z.B. Dünnstglas, Solarzellen).
- Hohe Positionsstabilität bei großen Geschwindigkeiten in X-Y- oder Z-Achsen.
- Grosse Haltekraft durch Spezialabstützungen.



Gebrauchsmusterschutz von Deutschen Patent- und Markenamt erteilt.
Protection of patented designs of the German patent and brand office gives.

Use

- Stable foils made of aluminum (e.g. dairy industry)

Advantages:

- No imprints or deformations after lifting of thin aluminum foils, e.g. lids of packaging, also foils of the food industry.
- No damages (break) of sensitive and very thin parts (e.g. thinnest glass, solar panels).
- High positional stability by high speeds in X-Y- or Z- axis.
- Large holding force by special supports.

Art. No.: B10.018.010.*

Hub/Stroke: 6,0 mm

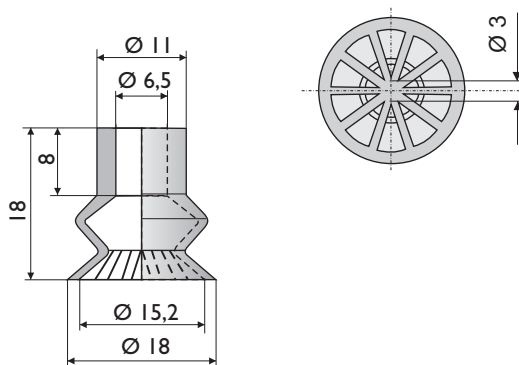
Gewicht/Weight: 1,1 g

*Material:

NR rotbraun/red-brown 40° Shore
Silikon transparent 45° Shore (FDA)

Anschlusssteile/Fittings

AT.0702 - AG M5
AT.0238 - AG 1/8" + IG M5
AT.0567 - AG 1/8"
AT.0504 - AG 1/4"



Verschließt Bohrungen bis Ø 3 mm des Werkstücks; deshalb kein Vakuumverlust

Closes hole until diam. 3; therefore no vacuum loss



Blech, Metall - MaxiGrip

Sheet, Metal - MaxiGrip

Bevorzugter Einsatz: Automobil, Robotik, Glas, Marmor, Verpackungs- und Lebensmittelindustrie.

Die Standardmaterialien für Vakuumsauger sind Benz (V-HNBR) +170° C, Naturgummi (+80° C), Silikon und FKM (+300° C). Wo Griffigkeit und hohe Ölbeständigkeit gefordert werden, schlagen wir unsere Blechsauggreifer **MaxiGrip** vor, die bis zu 170° C hitzebeständig sind (Benz).

Vorteile: Große Haltekraft und positionsstabil.

Alle Haltekraftangaben beziehen sich auf 75 % Vakuum und 3-fache Sicherheit, bezogen auf Meereshöhe.

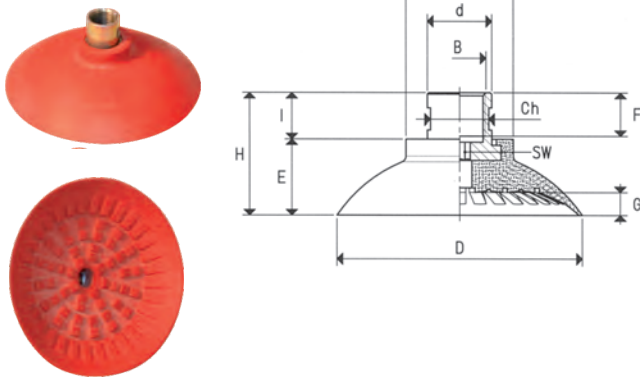
Preferred Use: Automobiles, robotics, glass, marble, packaging and food industries.

*Standard materials for these suction cups are Benz (V-HNBR) +170° C, natural rubber (+80° C), silicone and FKM (+300° C). If superior grip and high resistance to oil are required, we recommend **MaxiGrip** sheet suction cups, which are resistant up to +170° C (Benz).*

Advantages: High holding force and positional stability.

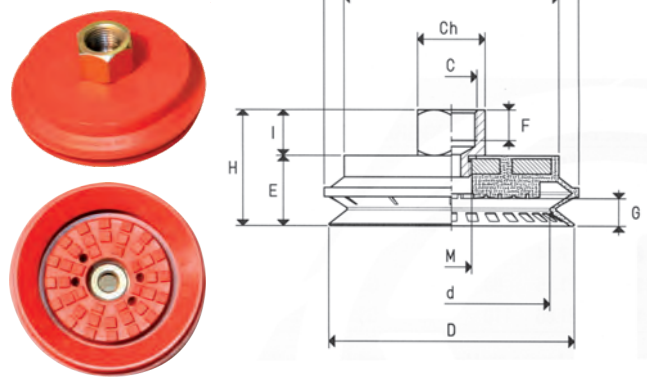
All holding force data refer to 75% vacuum and triple safety margin, as referred to sea level.

Flachsauer Baureihe VRP Flat suction cups type VRP



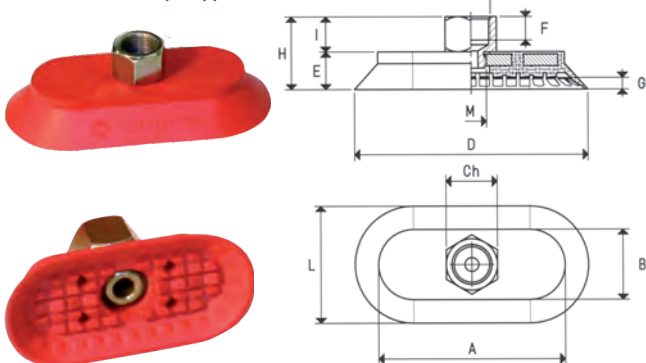
Art. No.	Haltekraft Holding force kg	A Ø	B	C	D Ø	d Ø	E	F	G	H	I	SW
VRP 40	3,14	26	G1/4"	15	40	17	16	14	4	31	15	6
VRP 50	4,90	30	G3/8"	19	50	21	18	14	5	33	15	6
VRP 60	7,06	30	G3/8"	19	60	21	21	14	6	36	15	6
VRP 80	12,56	35	G3/8"	19	80	21	25	14	7,5	40	15	6
VRP 100	19,62	35	G3/8"	19	100	21	25	14	9,5	40	15	6
VRP 125	30,66	35	G3/8"	19	125	21	33	14	12,5	48	15	6

Balgensauer Baureihe VRS Bellows suction cups type VRS



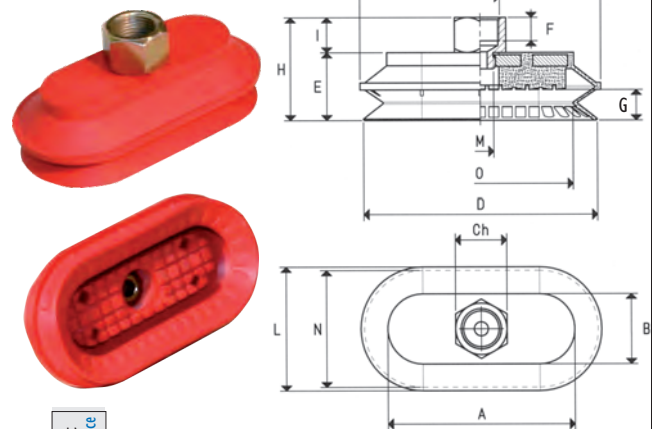
Art. No.	Haltekraft Holding force kg	A Ø	B Ø	C	D Ø	d Ø	E	F	G	H	I	M	SW
VRS 40	3,14	43	30	G1/4"	40	24	21	10	7	35	14	G1/8"	17
VRS 50	4,90	53	40	G3/8"	50	34	21	10	7	36	15	G1/4"	22
VRS 60	7,06	63	50	G3/8"	60	44	21	10	7	36	15	G1/4"	22
VRS 80	12,56	83	70	G3/8"	80	64	23	10	9	38	15	G1/4"	22
VRS 100	19,62	103	80	G3/8"	100	79	29	10	13	44	15	G1/4"	22
VRS 125	30,66	128	105	G3/8"	125	100	32,5	10	16,5	47,5	15	G1/4"	22

Ovalsauer Baureihe VEP Oval suction cups type VEP



Art. No.	Haltekraft Holding force kg	A	B	C	D	E	F	G	H	I	L	M	SW
VEP 30 60	4,01	47	17	G1/4"	60	13	10	3	27	14	30	G1/8"	17
VEP 30 90	6,26	77	17	G1/4"	90	13	10	3	27	14	30	G1/8"	17
VEP 40 80	7,14	70	30	G1/4"	80	14	10	4	28	14	40	G1/8"	17
VEP 50 100	11,15	80	30	G3/8"	100	16	10	5	31	15	50	G1/4"	22
VEP 60 120	16,06	95	35	G3/8"	120	18	10	6	33	15	60	G1/4"	22
VEP 70 140	21,86	110	40	G3/8"	140	19	10	7	34	15	70	G1/4"	22

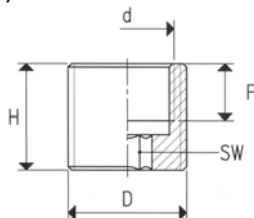
Oval-Balgensauer Baureihe VES Oval suction cups type VES



Art. No.	Haltekraft Holding force kg	A	B	C	D	E	F	G	H	K	I	L	M	N	O	SW
VES 30 60	4,01	50	20	G1/4"	60	21	10	7	35	63	14	33	G1/8"	30	44,5	17
VES 40 80	7,14	70	30	G1/4"	80	23	10	9	37	83	14	43	G1/8"	40	64	17
VES 50 100	11,15	80	30	G3/8"	100	29	10	13	44	103	15	53	G1/4"	50	79	22
VES 70 140	21,86	110	40	G3/8"	140	33	10	16,5	48	143	15	73	G1/4"	70	109	22

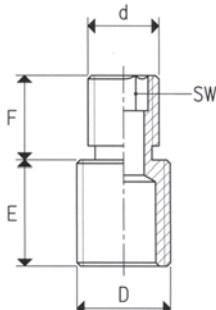
Vorteile: Unzählige Anschlussvarianten, adaptier- und austauschbar auch zu bestehenden Systemen.

MF-Reduzierung für Sauger VRP
MF Reducer for suction cups VRP



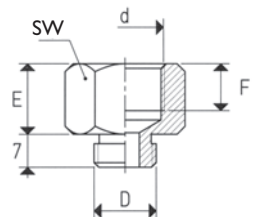
Art. No.	D	d	F	H	SW
00 08 215	G3/8"	G 1/4"	8	14	6

MF-Reduzierung für Sauger VRP
MF Reducer for suction cups VRP



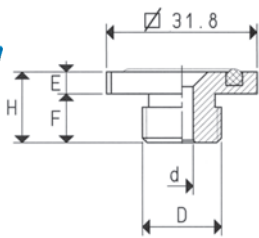
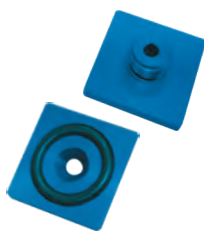
Art. No.	E	F	D	d	SW
00 08 217	15	10	G1/4"	G1/4"	6
00 08 218	15	12	G1/4"	M10x1,5	6
00 08 219	15	12	G1/4"	M14x1,5	6
00 08 220	14	10	G3/8"	G1/4"	6
00 08 221	14	12	G3/8"	M10x1,5	6
00 08 222	14	12	G3/8"	M14x1,5	6

MF-Reduzierung für Sauger VRP-VRS-VEP-VES
MF Reducer for suction cups VRP-VRS-VEP-VES



Art. No.	E	F	D	d	SW
00 08 208	15	9	G1/4"	G3/8"	22

Schnellwechseladapter für Sauger VRP-VRS-VEP-VES
Quick-change adapters for suction cups VRP-VRS-VEP-VES

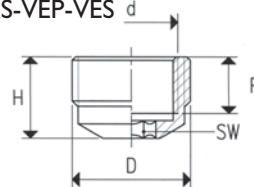


Art. No.	H	E	F	D	d
AQ 32 1/4"	13	5	8	G1/4"	5
AQ 32 3/8"	13	5	8	G3/8"	5



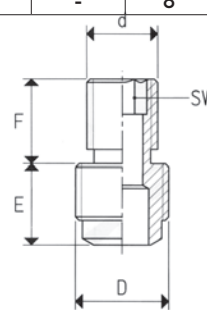
Advantages: Countless fitting options, adaptable and interchangeable with existing systems.

MF-Reduzierung für Sauger VRS-VEP-VES
MF Reducer for suction cups VRS-VEP-VES



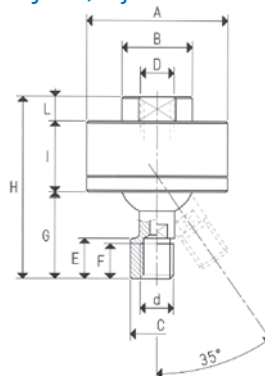
Art. No.	D	d	F	H	SW
00 08 216	G3/8"	G 1/4"	8	11,5	6
00 08 216.14	G 1/4"	G 1/8"	-	8	-

MF-Reduzierung für Sauger VRS-VEP-VES
MF Reducer for suction cups VRS-VEP-VES



Art. No.	E	F	D	d	SW
00 08 223	11,5	10	G1/4"	G1/4"	6
00 08 224	13	12	G1/4"	M10x1,5	6
00 08 225	13	12	G1/4"	M14x1,5	6
00 08 226	10,5	11	G3/8"	G1/4"	6
00 08 227	10,5	13	G3/8"	M10x1,5	6
00 08 228	10,5	13	G3/8"	M14x1,5	6

Kugelgelenke, einstellbar
Ball joints, adjustable



Kugelgelenke in verschiedenen Anschlussvarianten bis 35° fix einstellbar

Ball joints with various fitting options, adjustable to 35°

Art. No.	A Ø	B Ø	C Ø	D	d	E	F	G	H	I	L	max. zugl. Gewicht max. adm. weight kg
GSV 1/8"	40	20	--	G1/8"	G1/8"	11,5	10	24,5	51,5	20	7	18,24
GSV 1/4"	45	25	--	G1/4"	G1/4"	14,5	12	28,5	60,5	25	7	23,54
GSV 3/8"	50	30	--	G3/8"	G3/8"	14	12	34,5	69,5	25	10	33,91
GSVF 1/8"	40	20	15	G1/8"	G1/8"	11,5	10	24,5	51,5	20	7	18,24
GSVF 1/4"	45	25	20	G1/4"	G1/4"	14,5	12	28,5	60,5	25	7	23,54
GSVF 3/8"	50	30	21	G3/8"	G3/8"	17	12	34,5	69,5	25	10	33,91

Blech, Metall - MaxiGrip Anschlussadapter

Sheet, Metal - MaxiGrip Connection Adapters

Zum schnellen Wechseln von Vakuumsaugern der Baureihe „MaxiGrip“.

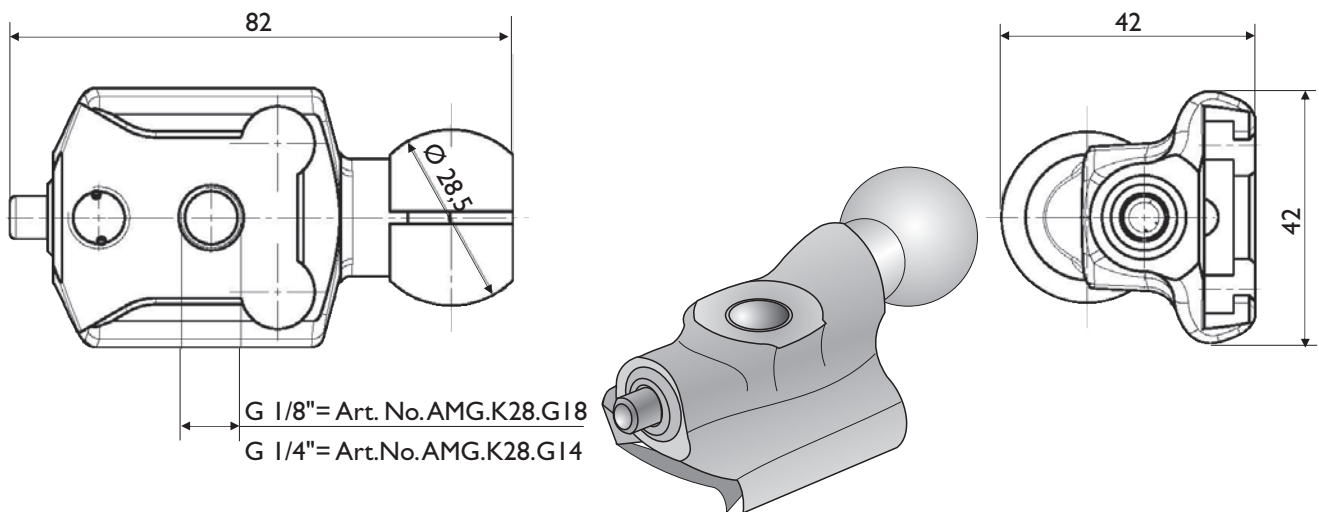
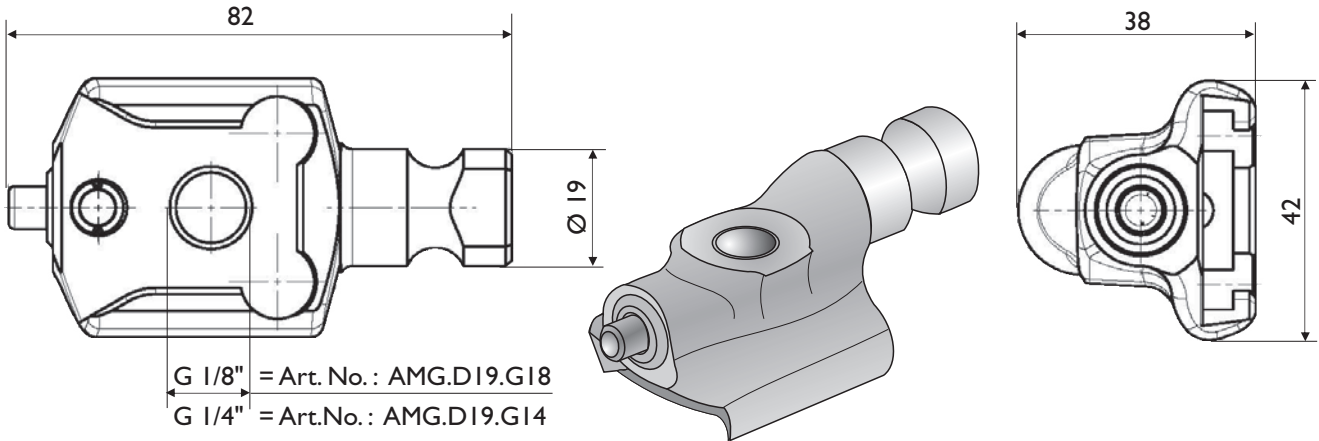
Einsatz:

- in Greifsystemen zum Blechhandling Automobil-Industrie usw.

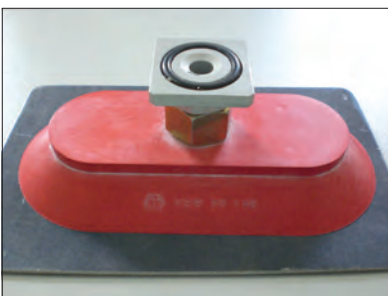
For fast changing of vacuum suction cups of the series „MaxiGrip“.

Use:

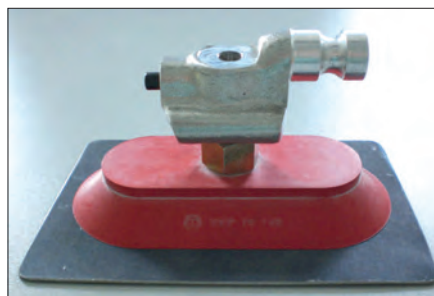
- in gripper systems for sheet handling automotive industrie etc.



MaxiGrip mit Adapter AQ + AQS
 MaxiGrip with adapter AQ + AQS



MaxiGrip mit/with AMG.D19

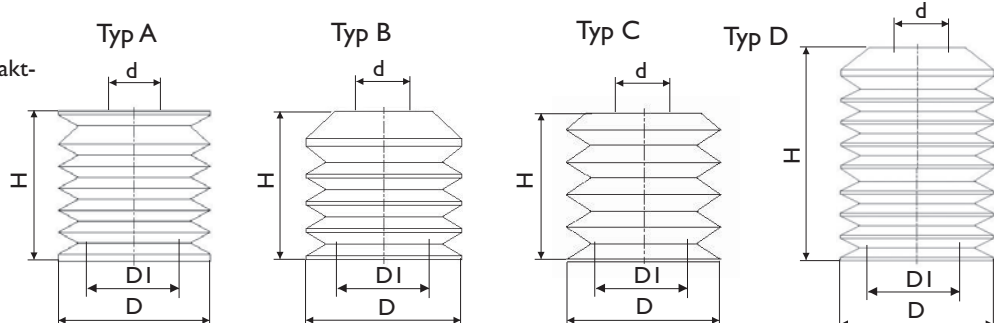


MaxiGrip mit/with AMG.K28



Material: Silikon (detektierbar).
Alle Sauger dieser Serie werden
gemäß FDA-Nahrungsmittelkontakt-
Bestimmungen 21 CFR 177.2600
gefertigt.
Arbeitstemperatur: 200° C

Material: Silicone (detectable).
All these cups are made of FDA
approved silicone. Complying with
FDA contact regulation
21 CFR 177.2600.
Working temperature: 200° C



Typ Type	Art.No.	Beschreibung Description	D mm	DI mm	d mm	H mm	Dicke Saugerlippe Thickness lip mm	Detektierbar Detectable
A 	B50.042.001.SR40D 5,5 Falten/Folds	Oberseite flach 40° Shore rot <i>Flat top 40° Shore red</i>	42	27	16	41	1,65	Ja Yes
A 	B50.042.001.SBL30D 5,5 Falten/Folds	Oberseite flach 30° Shore blau <i>Flat top 30° Shore blue</i>	42	27	16	41	1,65	Ja Yes
B 	B40.040.001.SR40D 4,5 Falten/Folds	Oberseite schräg 40° Shore rot <i>Taper top 40° Shore red</i>	40	25	15	38	0,9	Ja Yes
B 	B40.040.001.SBL30D 4,5 Falten/Folds	Oberseite schräg 30° Shore blau <i>Taper top 30° Shore blue</i>	40	25	15	38	0,9	Ja Yes
B 	B40.040.001.ST40 4,5 Falten/Folds	Oberseite schräg 40° Shore transparent <i>Flat top 40° Shore clear</i>	40	25	15	38	0,9	Nein No
C 	B40.035.001.SR30D 4,5 Falten/Folds	Oberseite schräg 30° Shore rot <i>Taper top 30° Shore red</i>	35	21	14	33	0,7	Ja Yes
B 	B40.042.001.SBL30D 4,5 Falten/Folds	Oberseite schräg 30° Shore blau <i>Taper top 30° Shore blue</i> dünne Sauglippe/soft lip	42	25	15	38	0,6	Ja Yes
B 	B40.042.001.ST30 4,5 Falten/Folds	Oberseite schräg 30° Shore transparent <i>Taper top 30° Shore clear</i> dünne Sauglippe/soft lip	42	25	15	38	0,6	Nein No
B 	B40.039.001.SBL45D 4,5 Falten/Folds	Oberseite schräg 45° Shore blau <i>Taper top, 45° Shore, blue</i> beringte Sauglippe/ringed lip	39	25	14	37	1,0	Ja Yes
B 	B40.039.001.ST40 4,5 Falten/Folds	Oberseite schräg 40° Shore transparent <i>Taper top 40° Shore clear</i> beringte Sauglippe/ringed lip	39	25	14	37	1,0	Nein No
D 	B60.040.001.SBL40D 6,5 Falten/Folds	Oberseite schräg 40° Shore blau <i>Taper top, 40° Shore blue</i>	40	25	15	54	1,0	Ja Yes
D 	B80.040.001.ST30 B80.040.001.ST50 8,5 Falten/Folds	Oberseite schräg 30°/50° Shore, transparent <i>Flat top 30°/50° Shore clear</i>	40	23	15	66	1,2	Nein No
D 	B80.040.002.SBL35 8,5 Falten/Folds	Oberseite schräg 35° Shore blau <i>Flat top 35° Shore blue</i> Beringte Sauglippe/ringed lip	40	26	15	66	1,6	Nein No

Weitere Größen auf Anfrage.
Other sizes on request.

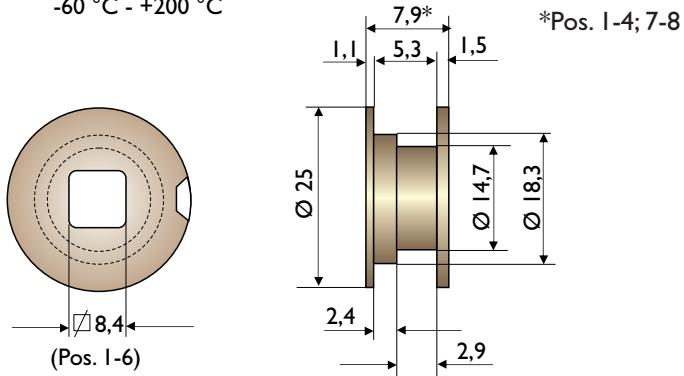
- Spezialhalter (detektierbar) für diese Backsauger sind lieferbar - siehe Seite I.016.
Special holder (detectable) for these suction cups are available - see page I.016.
- Weitere Spezialhalter auf Anfrage/further special holders on request.

Lebensmittel - Zubehör Backindustrie

Food - Accessories Bakery Industry

Material: Spezial-Kunststoff, FDA-detektierbar
Special plastic, FDA-detectable

Temperaturbeständigkeit/*Temperature resistant:*
-60 °C - +200 °C



Mindestbestellmenge 100 Stück

Pos. 1, 2, 6, 7 und 8 kurzfristig lieferbar | *Minimum order quantity 100 units*
Pos. 1, 2, 6, 7 and 8 available at short notice

Art. No.: BCH.01.Db

Standardhalter/*Standard Fitting*

1.



Farbe/Color:
braun/*brown*
Innen/internal:
Ø 8,4 mm

Art. No.: BCH.05.Dsw

Hohe Ausführung/
High design: 16,3 mm

5.



Farbe/Color:
schwarz/*black*
Innen/internal:
Ø 8,4 mm

Weitere Maße auf Anfrage.
Further dimensions on request.

Art. No.: BCH.02.Dbl

Standardhalter/*Standard Fitting*

2.



Farbe/Color:
blau/*blue*
Innen/internal:
Ø 8,4 mm

Art. No.: BCH.06.Db

Standardverschluss/*Standard fastener*

6.



Farbe/Color:
braun/*brown*
Innen/internal:
Ø 8,4 mm

Art. No.: BCH.03.Db

Halter, harte Ausführung/
Fitting, hard design

3.



Farbe/Color:
braun/*brown*
Innen/internal:
Ø 8,4 mm

Art. No.: BCH.07.Db

Standardhalter/*Standard Fitting*

7.



Farbe/Color:
braun/*brown*
Innen/internal:
Ø 9,5 mm

Art. No.: BCH.04.Db

Verschluss/*Fastener*

4.



Farbe/Color:
braun/*brown*
Innen/internal:
Ø 8,4 mm

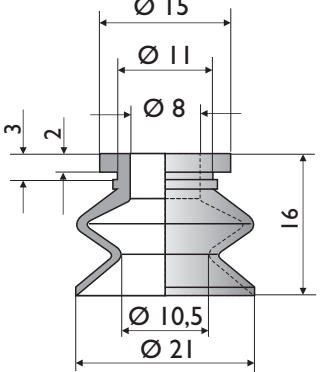
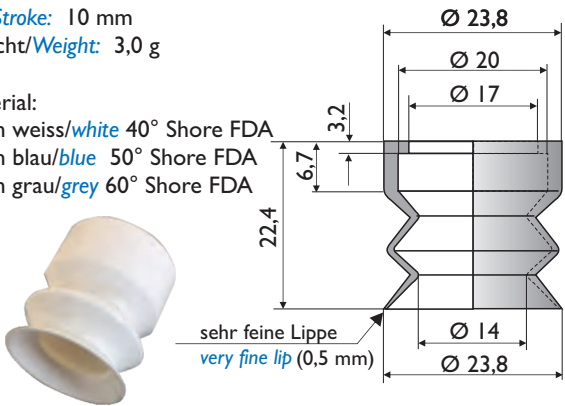
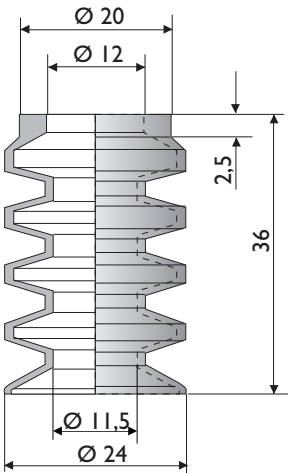
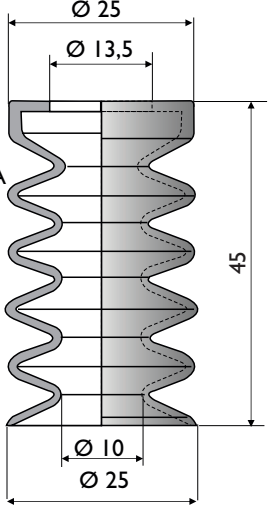
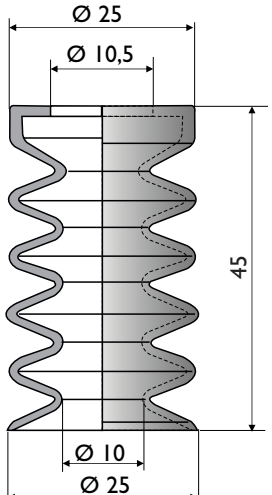
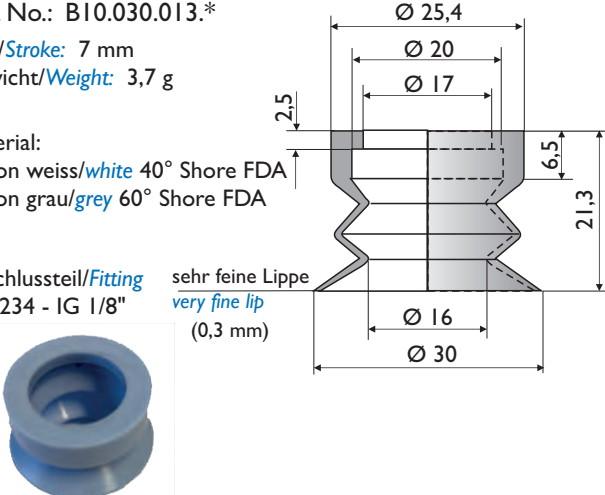
Art. No.: BCH.08.Db

Standardhalter/*Standard Fitting*

8.

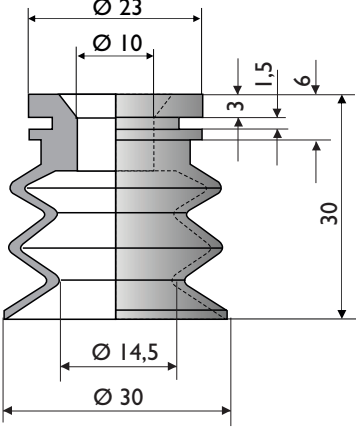
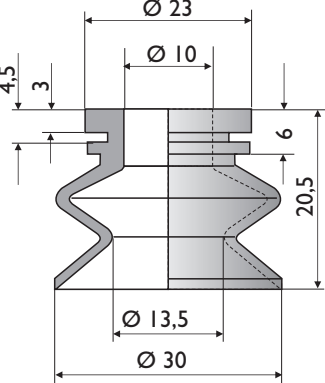
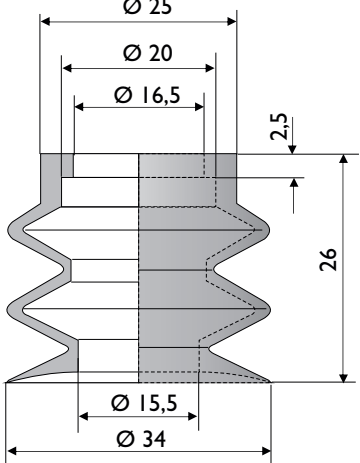
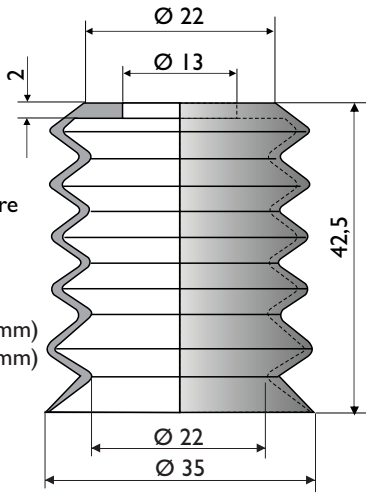
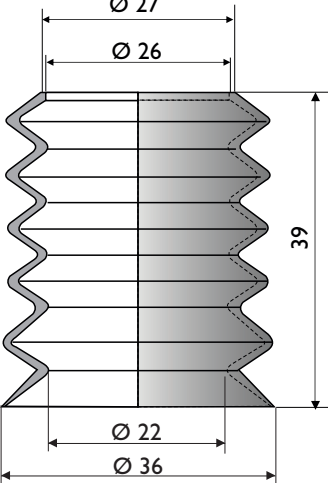
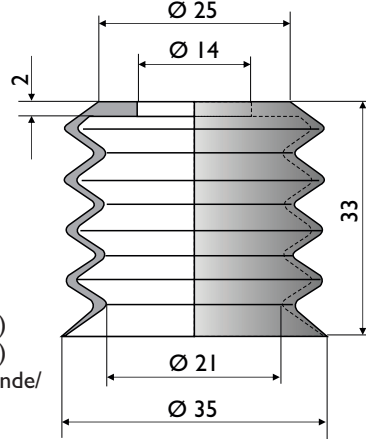


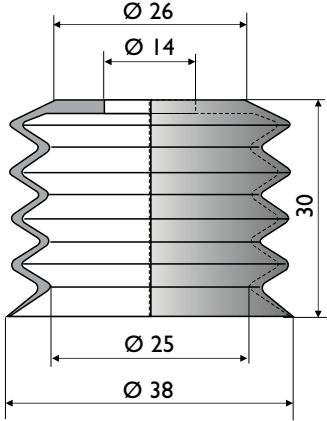
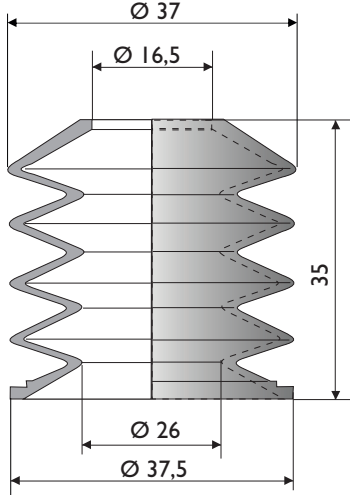
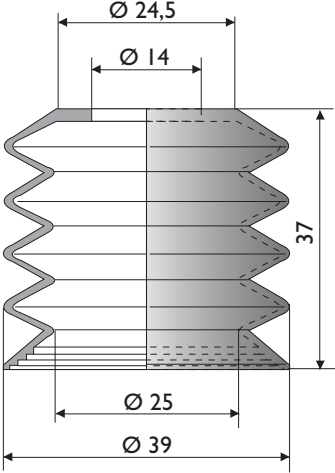
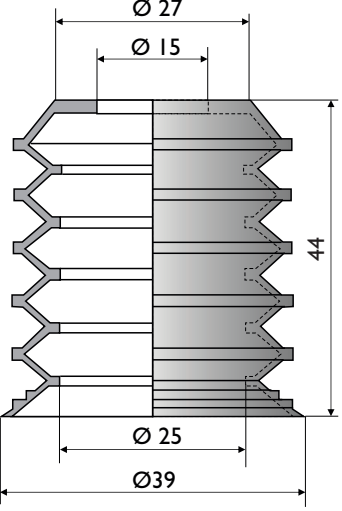
Farbe/Color:
braun/*brown*
Innen/internal:
Ø 8 mm

<p>Art. No.: B10.021.001.* Hub/<i>Stroke</i>: 8,5 mm Gewicht/<i>Weight</i>: 1,5 g</p> <p>*Material: Silikon transparent 50 °Shore</p> 	<p>Art. No.: B10.024.002.* Hub/<i>Stroke</i>: 10 mm Gewicht/<i>Weight</i>: 3,0 g</p> <p>*Material: Silikon weiss/<i>white</i> 40° Shore FDA Silikon blau/<i>blue</i> 50° Shore FDA Silikon grau/<i>grey</i> 60° Shore FDA</p>  <p>Anschlusssteil/<i>Fittings</i> AT.0234 - IG 1/8"</p>
<p>Art. No.: B40.024.001.* Hub/<i>Stroke</i>: 20 mm Gewicht/<i>Weight</i>: 5,0 g</p> <p>*Material: Silikon transparent 50 °Shore FDA</p> 	<p>Art. No.: B40.025.001.* Hub/<i>Stroke</i>: 26 mm Gewicht/<i>Weight</i>: 7,0 g</p> <p>*Material: Silikon transparent 50°/30° Shore FDA NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0233 - IG 1/8" AT.0183 - AG 1/4"</p> 
<p>Art. No.: B40.025.002.* Hub/<i>Stroke</i>: 26 mm Gewicht/<i>Weight</i>: 7,0 g</p> <p>*Material: Silikon transparent 50°/30 Shore FDA</p> <p>Anschlusssteil/<i>Fitting</i> AT.0233 - IG 1/8" AT.0183 - AG 1/4"</p> 	<p>Art. No.: B10.030.013.* Hub/<i>Stroke</i>: 7 mm Gewicht/<i>Weight</i>: 3,7 g</p> <p>Material: Silikon weiss/<i>white</i> 40° Shore FDA Silikon grau/<i>grey</i> 60° Shore FDA</p> <p>Anschlusssteil/<i>Fitting</i> AT.0234 - IG 1/8"</p> <p>sehr feine Lippe <i>very fine lip</i> (0,3 mm)</p> 

Lebensmittel-Vakuumsauger Ø 30 - 36 mm

Food Vacuum Suction Cups dia. 30 - 36 mm

<p>Art. No.: B20.030.005.* Hub/Stroke: 13 mm Gewicht/Weight: 7,0 g</p> <p>*Material: Silikon transparent 50 °/30° Shore FDA NR blau/blue 40 °Shore</p> <p>Anschlusssteile/Fittings AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> <p>Verwendung an Verpackungsmaschinen „Schubert“ <i>Use on packaging machines „Schubert“</i></p> 	<p>Art. No.: B10.030.014.* Hub/Stroke: 9,0 mm Gewicht/Weight: 5,0 g</p> <p>*Material: Silikon transparent 50 °Shore NR grau/grey 50° Shore</p> 
<p>Art. No.: B20.034.002.* Hub/Stroke: 11 mm Gewicht/Weight: 7 g</p> <p>*Material: Silikon transparent FDA 50°/30° Shore</p> <p>Besonders geeignet für Waffelgebäck <i>Particularly suitable for waffle pastry</i></p> 	<p>Art. No.: B50.035.001.* Hub/Stroke: 27 mm Gewicht/Weight: 11 g</p> <p>*Material: Silikon transparent FDA 50°/30° Shore NR schwarz/black 50 °Shore</p> <p>Anschlusssteile/Fitting AT.0182.U - AG 1/4" AT.0037 - AG 3/8" (SH=3 mm) AT.0714 - AG 3/8" (SH=7 mm)</p> 
<p>Art. No.: B50.036.001.* Hub/Stroke: 24 mm Gewicht/Weight: 10 g</p> <p>*Material: Silikon transparent 30° Shore FDA</p> 	<p>Art. No.: B40.035.001.* Hub/Stroke: 23 mm Gewicht/Weight: 6,9 g</p> <p>*Material: Silikon rot/red 30° Shore detekierbar/detectable FDA</p> <p>Anschlusssteile/Fittings AT.0182.U - AG 1/4" AT.0037 - AG 3/8" (SH=3 mm) AT.0714 - AG 3/8" (SH=7 mm) BCH.01 - BCH.08 ohne Gewinde/ <i>without thread</i></p> 

<p>Art. No.: B40.038.001.* Hub/<i>Stroke</i>: 17 mm Gewicht/<i>Weight</i>: 8,0 g</p> <p><i>*Material:</i> Silikon transparent 50° Shore Silikon blau/<i>blue</i> 50° Shore detektierbar/<i>detectable</i> FDA</p> <p>Anschlusssteil/<i>Fitting</i> AT.0183 - AG 1/4"</p> 	<p>Art. No.: B40.038.002.* Hub/<i>Stroke</i>: 20 mm Gewicht/<i>Weight</i>: 7,0 g</p> <p><i>*Material:</i> Silikon, transparent 50° Shore FDA</p> <p>Anschlusssteile/<i>Fittings</i> AT.0037 - AG 3/8" (SH=3 mm) AT.0182.U - AG 1/4" AT.0714 - AG 3/8" (SH=7 mm)</p> 
<p>Art. No.: B40.039.001.* Hub/<i>Stroke</i>: 23 mm Gewicht/<i>Weight</i>: 9,3 g</p> <p><i>*Material:</i> Silikon transparent 40° Shore Silikon blau/<i>blue</i> 45° Shore detektierbar/<i>detectable</i> FDA</p> <p>Anschlusssteil/<i>Fitting</i> AT.0182.U - AG 1/4" BCH.01 - BCH.08 ohne Gewinde/<i>without thread</i></p> 	<p>Art. No.: B50.039.001.* Hub/<i>Stroke</i>: 24 mm Gewicht/<i>Weight</i>: 11 g</p> <p><i>*Material:</i> Silikon transparent 50°/30° Shore FDA Silikon rot/<i>red</i> 40 °Shore FDA</p> <p>Anschlusssteil/<i>Fitting</i> AT.0182.U - AG 1/4"</p> 

Lebensmittel-Vakuumsauger Ø 40 mm

Food Vacuum Suction Cups dia. 40 mm

Art. No.: B20.040.004.*

Hub/Stroke: 13 mm

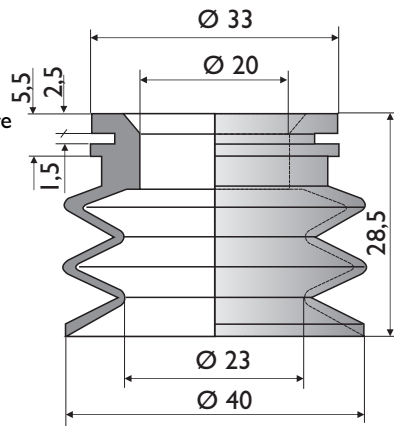
Gewicht/Weight: 9,5 g

*Material:

Silikon blau/blue 40° Shore

NR hellblau/light blue

40° Shore



Art. No.: B40.040.001.*

Hub/Stroke: 24 mm

Gewicht/Weight: 11 g

*Material:

Silikon transparent

40° Shore FDA

Silikon rot/red 40° Shore

detektierbar/detectable FDA

Silikon blau/blue 30° Shore

detektierbar/detectable FDA

Anschlussteile/Fittings

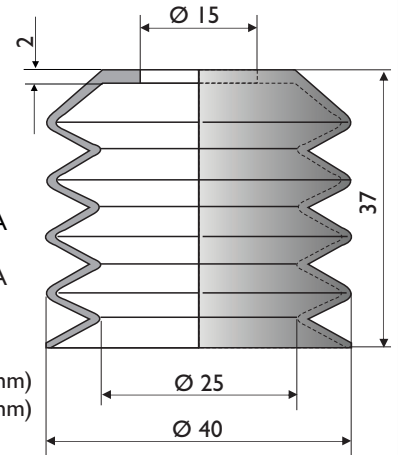
AT.0182.U - AG 1/4"

AT.0037 - AG 3/8" (SH=3 mm)

AT.0714 - AG 3/8" (SH=7 mm)

BCH.01 - BCH.08 ohne

Gewinde/without thread



Art. No.: B40.040.002.*

Hub/Stroke: 22 mm

Gewicht/Weight: 8,0 g

*Material:

Silikon transparent

50°/30° Shore FDA

Silikon blau/blue

50° Shore detektierbar/

detectable FDA

Anschlussteile/Fittings

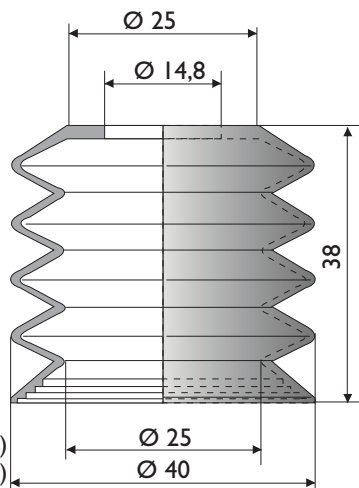
AT.0182.U - AG 1/4"

AT.0037 - AG 3/8" (SH=3 mm)

AT.0714 - AG 3/8" (SH=7 mm)

BCH.01 - BCH.08 ohne

Gewinde/without thread



Art. No.: B60.040.001.*

Hub/Stroke: 36 mm

Gewicht/Weight: 16,5 g

*Material:

Silikon blau/blue 40° Shore

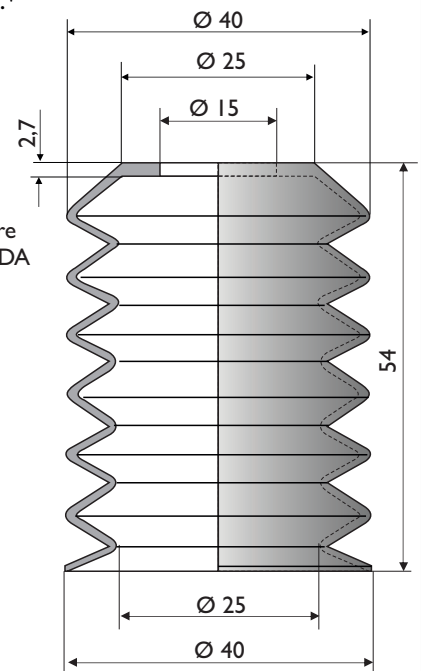
detektierbar/detectable FDA

Anschlussteile/Fittings

AT.0182.U - AG 1/4"

BCH.01 - BCH.08 ohne

Gewinde/without thread



Art. No.: B80.040.001.*

Hub/*Stroke*: 38 mm

Gewicht/*Weight*: 20 g

*Material:

Silikon transparent
 50°/30° Shore FDA

Anschlusssteile/*Fittings*

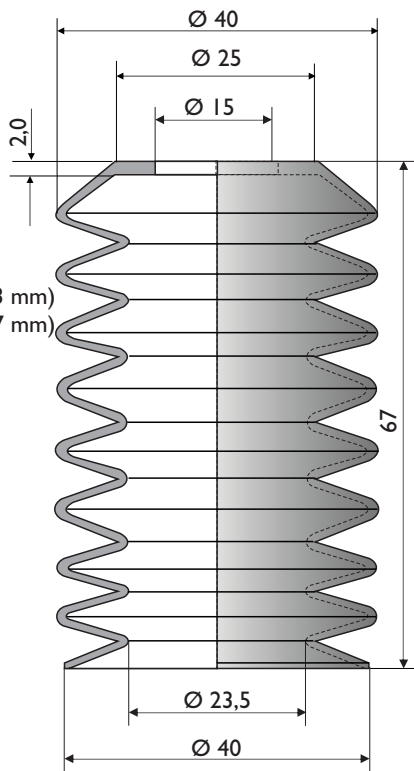
AT.0182.U - AG 1/4"

AT.0037 - AG 3/8" (SH=3 mm)

AT.0714 - AG 3/8" (SH=7 mm)

BCH.01 - BCH.08 ohne

Gewinde/*without thread*



Art. No.: B80.040.002.*

Hub/*Stroke*: 40 mm

Gewicht/*Weight*: 16,5 g

*Material:

Silikon blau/*blue*
 35° Shore FDA

Anschlusssteile/*Fittings*

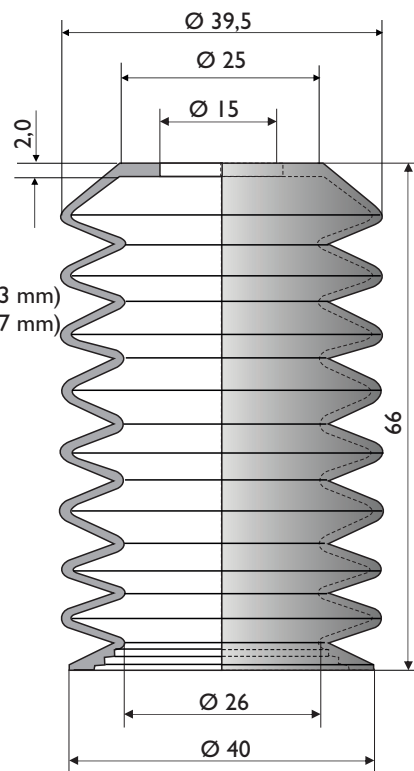
AT.0182.U - AG 1/4"

AT.0037 - AG 3/8" (SH=3 mm)

AT.0714 - AG 3/8" (SH=7 mm)

BCH.01 - BCH.08 ohne

Gewinde/*without thread*



Art. No.: B40.042.001.*

Hub/*Stroke*: 24 mm

Gewicht/*Weight*: 11 g

*Material:

Silikon transparent 30 °Shore
 Silikon blau/*blue* 30 °Shore
 detektierbar/*detectable* FDA

Anschlusssteile/*Fittings*

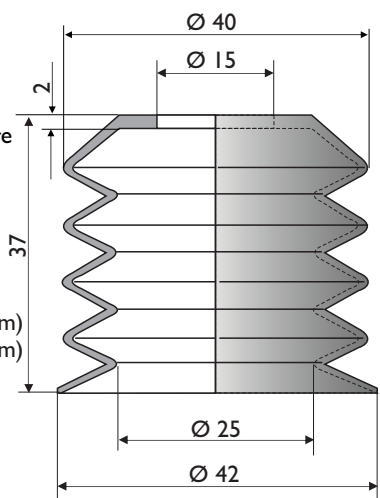
AT.0182.U - AG 1/4"

AT.0037 - AG 3/8" (SH=3 mm)

AT.0714 - AG 3/8" (SH=7 mm)

BCH.01 - BCH.08 ohne

Gewinde/*without thread*



Art. No.: B50.042.001.*

Hub/*Stroke*: 23 mm

Gewicht/*Weight*: 15 g

*Material:

Silikon rot/*red* 40 °Shore
 Silikon blau/*blue* 30 °Shore
 detektierbar/*detectable* FDA

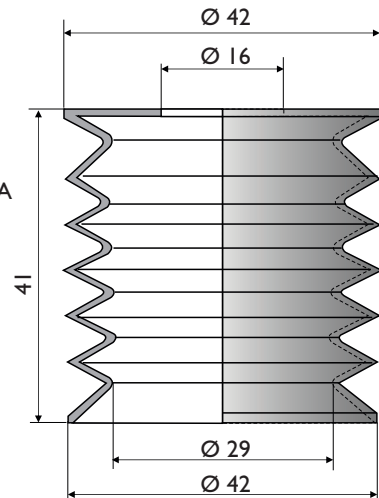
Anschlusssteile/*Fittings*

AT.0182.U - AG 1/4"

AT.0714 - AG 3/8"

BCH.01 - BCH.08 ohne

Gewinde/*without thread*



Lebensmittel-Vakuumsauger Ø 50 - 60 mm

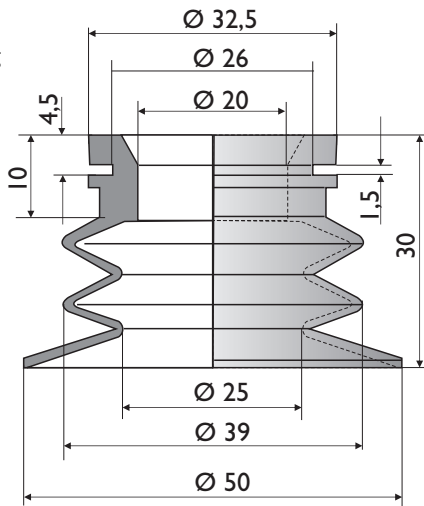
Food Vacuum Suction Cups dia. 50 - 60 mm

Art. No.: B20.050.005.*

Hub/*Stroke*: 14 mm

Gewicht/*Weight*: 12 g

*Material:
 Silikon transparent
 50° Shore

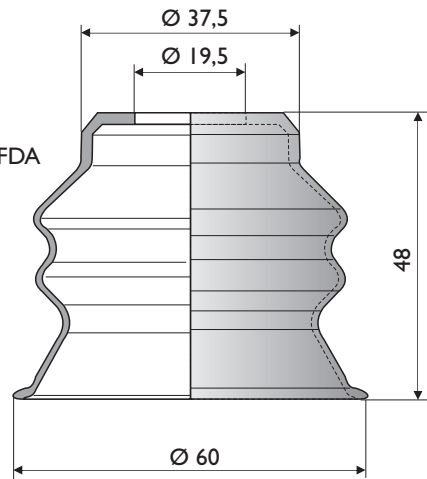


Art.No.: B20.060.003.*

Hub/*Stroke*: 12 mm

Gewicht/*Weight*: 40 g

*Material:
 Silikon transparent 50° Shore FDA
 Temperaturbeständigkeit/
Temperature resistance:
 -70° - +200° C



Einsatzgebiete:

- Lebensmittelindustrie für Gebäck, Krapfen, Windbeutel, Klöße (Knödel) usw.

Use:

- Food Industry for bisquits, muffins, dumpling etc.

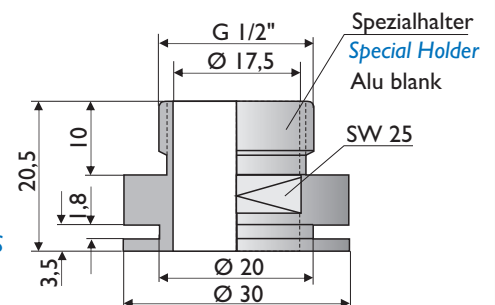
Optional:

- Spezialhalter Art. No.: AT.0372,
- Material: Alu, auf Anfrage in Edelstahl
- Abstützgitter: Art. No.: KSA.048.003.ES
 Material: Edelstahl

Optional:

- Special holder Art. No.: AT.0372,
- Material: Alu, stainless steel on request
- Support Grids: Art. No.: KSA.048.003.ES
 Material: stainless steel

Anschlussstück/*Fitting*
 AT.0372 - AG 1/2"



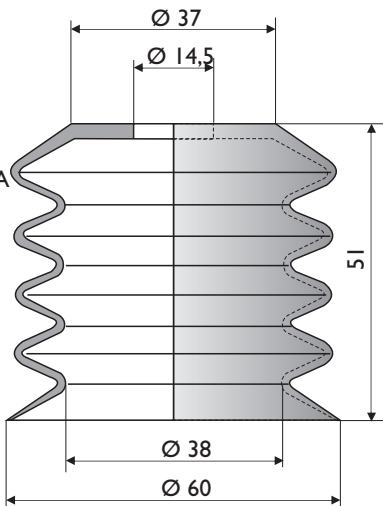
Art. No.: B40.060.001.*

Hub/*Stroke*: 22 mm

Gewicht/*Weight*: 26 g

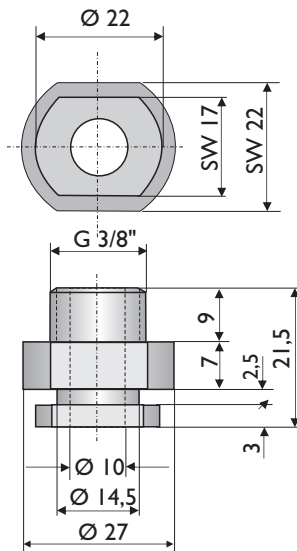
*Material:

Silikon blau/*blue* 40° Shore
 detektierbar/*detectable* FDA



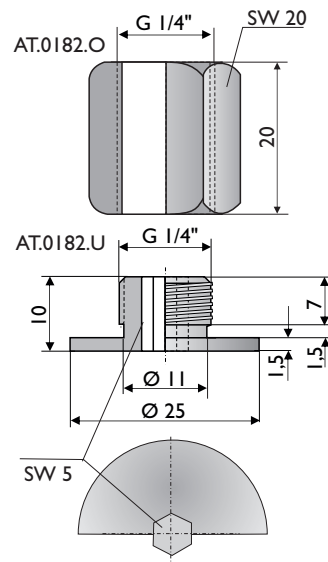
Art.No.: AT.0714

Material: Alu blank/*Alu shiny*



Art. No.: AT.0182.O

AT.0182.U



Art. No.: B30.073.001.*

Hub/*Stroke*: 19 mm

Gewicht/*Weight*: 24,5 g

*Material:

Silikon weiss/*white* 40° Shore FDA

Silikon grau/*grey* 60° Shore FDA

Vinyl grün/*green* 50° Shore ölbeständig/*oil resistant* FDA

Vinyl schwarz/*black* 60° Shore ölbeständig/*oil resistant* FDA

Vinyl transparent 30/40°/50° Shore FDA

Vinyl blau/*blue* 30/65 Shore

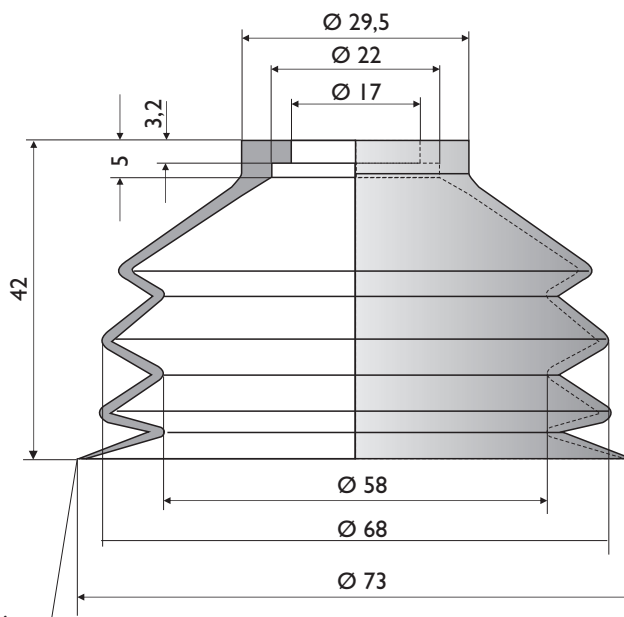
Polyurethan blau/*blue* 65° Shore

Anschlussteile/*Fittings*

AT.0037 - AG 3/8" (SH=3 mm)

AT.0234 - IG 1/8"

AT.0714 -AG 3/8" (SH=7 mm)



sehr feine Lippe
very fine lip (0,5 mm)

Lebensmittel-Vakuumsauger für Pralinen

Food Vacuum Suction Cups for Pralines

Die nachstehenden Pralinensauger sind eine Auswahl für Erzeugnisse mit unebenen Oberflächen. Für unverpackte Lebensmittel empfehlen wir Vakuumsauger aus Silikon mit FDA-Zertifizierung.

Anschlusssteile auf Anfrage erhältlich!

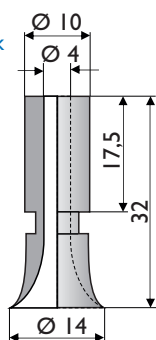


The following Pralines Vacuum Cups are a selection for parts with uneven surfaces. For unpackaged food we recommend vacuum suction cups made of Silicone with FDA-Certification.

Fittings are available on request!

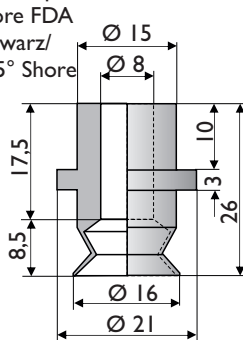
Art. No.: 01 14 32.*

*Material:
Silikon transparent
45° Shore FDA
NR schwarz/**black**
45° Shore



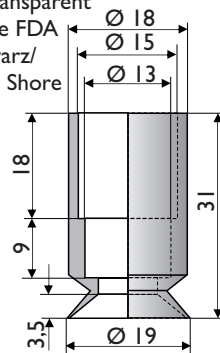
Art. No.: 01 16 26.*

*Material:
Silikon transparent
45° Shore FDA
NR schwarz/**black**
45° Shore



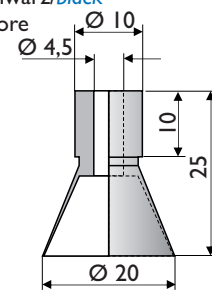
Art. No.: 01 19 31.*

*Material:
Silikon transparent
45° Shore FDA
NR schwarz/**black**
45° Shore



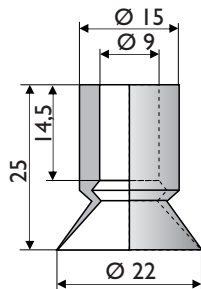
Art. No.: 01 20 24.*

*Material:
Silikon transparent
45° Shore FDA
NR schwarz/**black**
45° Shore



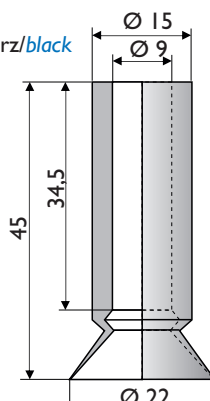
Art. No.: 01 22 24.S+NR*

*Material:
Silikon transparent 45° Shore FDA
NR schwarz/**black** 45° Shore



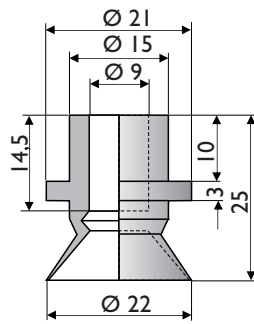
Art. No.: 01 22 45.*

*Material:
NR schwarz/**black**
45° Shore



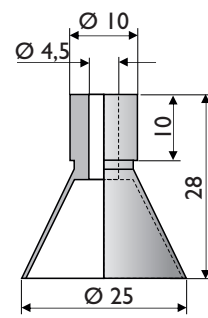
Art. No.: 01 22 99.*

*Material:
Silikon transparent 45° Shore FDA
NR schwarz/**black** 45° Shore



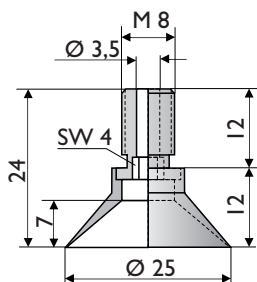
Art. No.: 01 25 28.*

*Material:
Silikon transparent 45° Shore FDA
NR schwarz/**black** 45° Shore



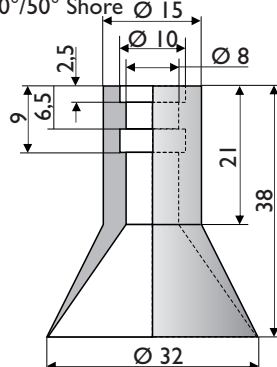
Art. No.: 08 25 22.*

*Material:
Silikon transparent 45° Shore FDA
NR schwarz/**black** 45° Shore



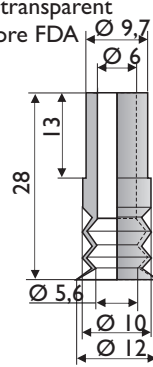
Art. No.: F0.032.007.*

*Material:
Silikon transparent FDA
30°/50° Shore Ø 15



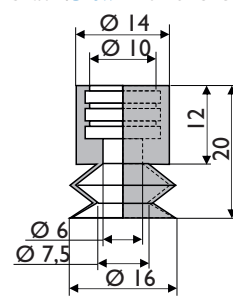
Art. No.: B20.012.010.*

*Material:
Silikon weiss/**white** 60° Shore
Silikon transparent
30° Shore FDA



Art. No.: B10.016.008.*

*Material:
Silikon transparent
50° Shore FDA
NR schwarz/**black** 50° Shore
NR braun/**brown** 40° Shore



Senden Sie uns Ihre Produkte und wir machen Ihnen ein Vorschlag für den richtigen Vakuumsauger!
Please send us your products, so we will make you a proposal for the right vacuum suction cup!

Art. No.: 01 33 50.*

Hub/*Stroke*: 16 mm

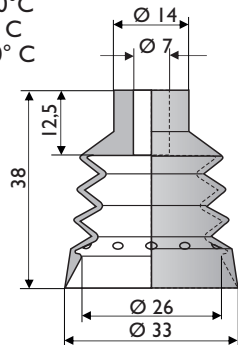
Gewicht/*Weight*: 8,0 g

*Material:

NBR schwarz/*black* -40° - +130° C

NR schwarz/*black* -70° - +80° C

Silikon transparent -50° - +300° C



Art. No.: 01 40 80.*

Hub/*Stroke*: 11 mm

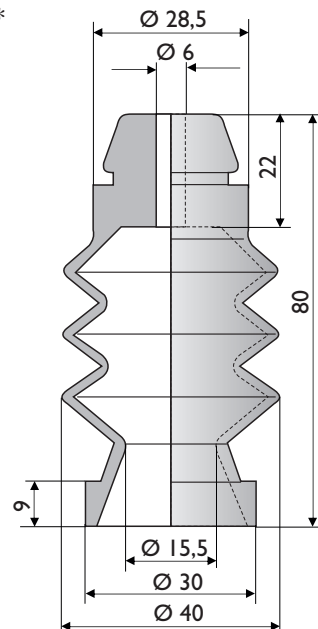
Gewicht/*Weight*: 24 g

*Material:

NR schwarz/*black*

-70° - +80° C

Silikon transparent -50° - +300° C



Art. No.: 01 42 90.*

Hub/*Stroke*: 11 mm

Gewicht/*Weight*: 24 g

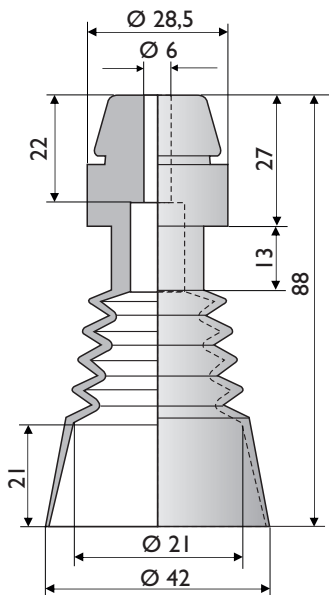
*Material:

NR schwarz/*black*

-70° - +80° C

Silikon transparent

-50° - +300° C



Art. No.: B30.033.001.*

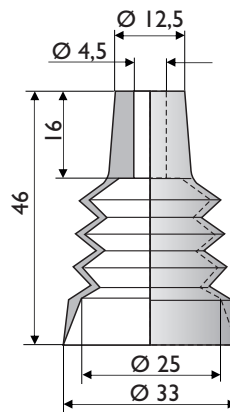
Hub/*Stroke*: 25 mm

Gewicht/*Weight*: 9,0 g

*Material:

Silikon transparent 50° Shore

NBR schwarz/*black* 50° Shore



Art. No.: B10.035.001.*

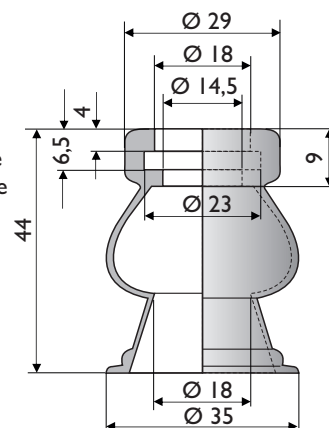
Hub/*Stroke*: 25 mm

Gewicht/*Weight*: 9 g

*Material:

Silikon transparent 50° Shore

NBR schwarz/*black* 50° Shore



Lebensmittel-Vakuumsauger - Handling von Eiern

Food Vacuum Suction Cups - Handling of Eggs

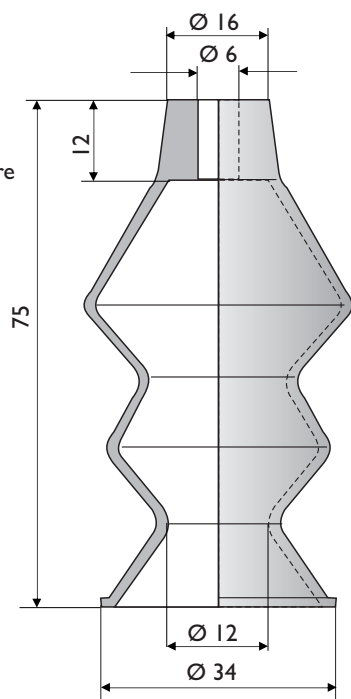
Art. No.: B20.034.001.*

Hub/*Stroke*: 40 mm

Gewicht/*Weight*: 17 g

*Material:

Silikon rot/*red* 30°/50° Shore



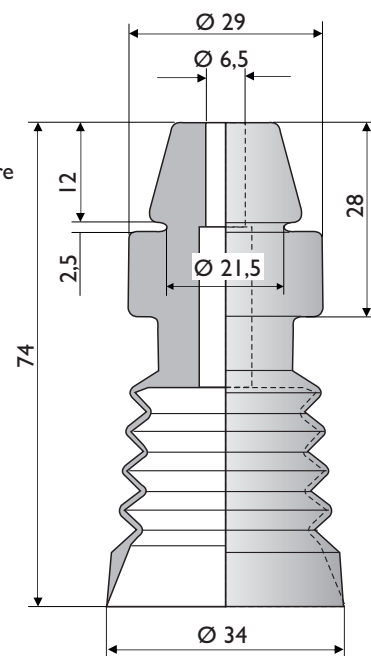
Art. No.: B40.034.001.*

Hub/*Stroke*: 20 mm

Gewicht/*Weight*: 25 g

*Material:

NR schwarz/*black* 50° Shore



Art. No.: KS.035.001.*

ohne Abstützgitter/*without supporting grid*

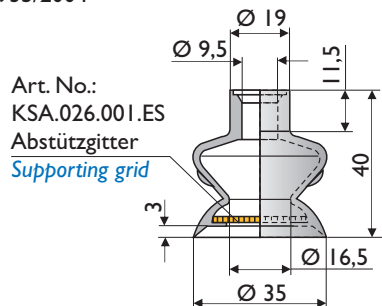
Hub/*Stroke*: 8,0 mm

Gewicht/*Weight*: 17 g

*Material:

Silikon blau/*blue*

FDA CE 1935/2004



Art. No.: KS.040.002.*

ohne Abstützgitter/*without supporting grid*

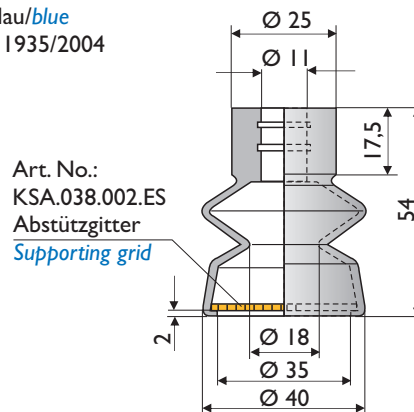
Hub/*Stroke*: 10 mm

Gewicht/*Weight*: 33 g

*Material:

Silikon blau/*blue*

FDA CE 1935/2004



Art. No.: KS.050.003.*

ohne Abstützgitter/*without supporting grid*

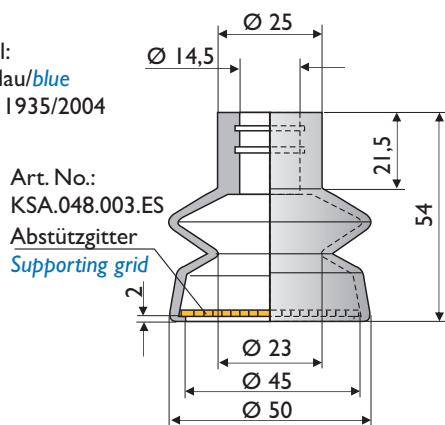
Hub/*Stroke*: 11 mm

Gewicht/*Weight*: 42 g

*Material:

Silikon blau/*blue*

FDA CE 1935/2004



Art. No.: KS.063.004.*

ohne Abstützgitter/*without supporting grid*

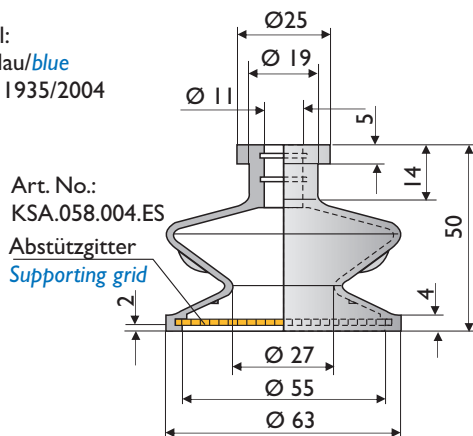
Hub/*Stroke*: 11 mm

Gewicht/*Weight*: 61 g

*Material:

Silikon blau/*blue*

FDA CE 1935/2004



Hinweis: Die Abstützgitter (KSA) sind nicht im Lieferumfang der Spezialsauger (KS) enthalten und müssen separat bestellt werden.

Note: The Supporting Grids are not supplied with the Special Cups (KS). They must be ordered separately.

Lebensmittel-Vakuumsauger - Handling von Käse

Food Vacuum Suction Cups - Handling of Cheese

Art. No.: KS.075.005.*

ohne Abstützgitter/without supporting grid

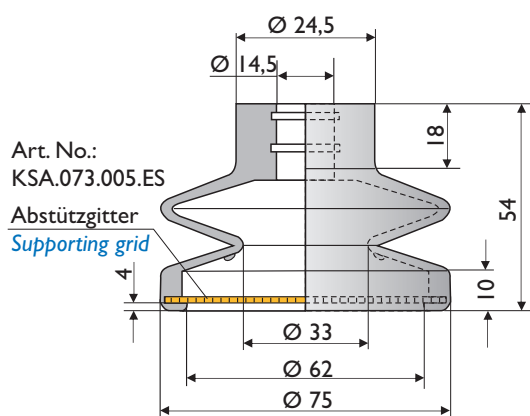
Hub/Stroke: 8,0 mm

Gewicht/Weight: 98 g

*Material:

Silikon blau/blue

FDA CE 1935/2004



Art. No.: KS.085.006.*

ohne Abstützgitter/without supporting grid

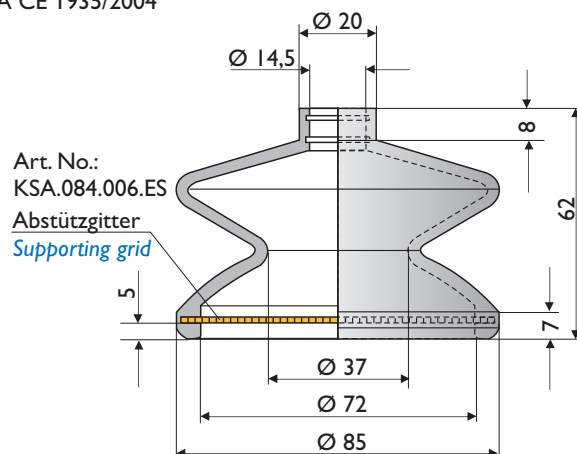
Hub/Stroke: 15 mm

Gewicht/Weight: 139 g

*Material:

Silikon blau/blue

FDA CE 1935/2004



Hinweis: Die Abstützgitter (KSA) sind nicht im Lieferumfang der Spezialsauger (KS) enthalten und müssen separat bestellt werden.

Note: The Supporting Grids are not supplied with the Special Cups (KS). They must be ordered separately.

Grobfilter und Abstützgitter Rough Filters and Support Grids

Material: Edelstahl/Stainless steel

für Lebensmittel geeignet/suitable for food

Art. No.	Ø D/Dia. mm	Dicke Thickness mm	Ø der Öffnung Dia. of the holes mm	Passend für: Suitable for:
KSA.026.001.ES	25,5	1,5	2,0	KS.035.001
KSA.038.002.ES	38,0			KS.040.002
KSA.048.003.ES	48,0			KS.050.003
KSA.058.004.ES	58,0			KS.063.004
KSA.073.005.ES	73,0			KS.075.005
KSA.084.006.ES	84,0			KS.085.006



Spezialeinsatz:
Nahrungsmittelindustrie
Verpackungsindustrie

Vorteile:

- Greifen von unverpackten Lebensmitteln
- Greifen auch bei Cellophan-Verpackungen
- Optional verstärkt mit Drahtbügeln

***Material:**

Silikon 40° Shore FDA
Silikon 50° Shore FDA
NR 50° Shore

Spezial-Anschlusssteile nach Kundenwunsch
auf Anfrage.

Material:

Aluminium blank, eloxiert oder Edelstahl.

Preferred use:

Food industry
Packaging industry

Advantages:

- Grip of unpackaged foodstuffs
- Grip also in cellophane packages
- Optional reinforced with steel wires

***Material:**

Silicone 40° Shore FDA
Silicone 50° Shore FDA
NR 50° Shore

Special fittings to customer specification
on request.

Material:

Aluminum finished or anodised or

Hinweis

Für eine größere Stabilität liefern
wir diese Spezial-Rechtecksauger auf
Wunsch auch mit Drahtbügeln in
jeder Falte.

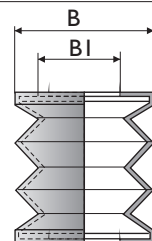
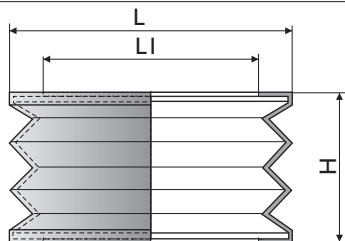
Note

For a better stability on request we deliver
these special rectangular suction cups also
with steel wires in each fold on request.

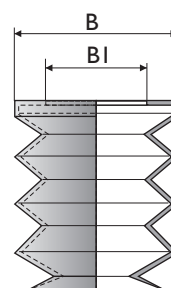
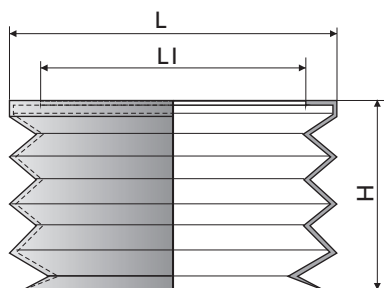


Drahtbügelsatz VRB...
Steel wire spare parts VRB...

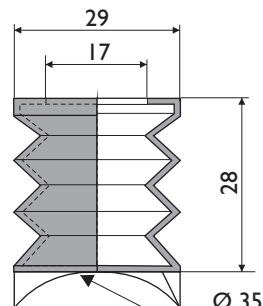
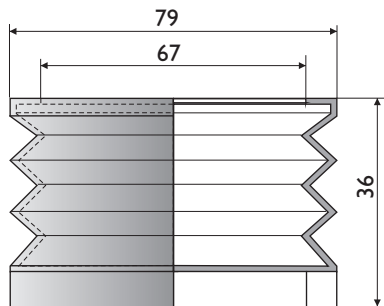
X = Material
(Silikon oder/and NR)



No.	Art. No. (ohne Drahtbügel) (without steel wire)	Maße in mm/Dimension in mm					Hub Stroke mm	Gewicht Weight g	Materialien Materials
		L	LI	B	BI	H			
1	RB.052x025.001.*	52	40	25	13	26	11	9	S50 - NR50
2	RB.052x025.002.*	52	40	25	13	28	13	11	S50 - NR50
3	RB.060x029.003.*	60	48	29	17	28	13	12	S50 - NR50



No.	Art. No. (ohne Drahtbügel) (without steel wire)	Maße in mm/Dimension in mm					Hub Stroke mm	Gewicht Weight g	Material Materials
		L	LI	B	BI	H			
4	RB.080x022.005.*	80	68	22	10	33	20	18	S40 - NR50
5	RB.080x030.006.*	80	68	30	18	33	20	19	S40
6	RB.080x040.007.*	80	68	40	28	33	20	20	S40
7	RB.080x050.008.*	80	68	50	38	33	20	23	S40



No. 8	Art.No. RB.079x029.004	Hub/Stroke 16 mm	Gewicht/Weight 20 g
(ohne Drahtbügel) (without steel wire)		Material: Silikon 50° Shore und/and NR50° Shore	

No.	Art.No. Sauger mit Drahtbügel Suction cup with steel wire	Anzahl Drahtbügel No. of steel wire	Ersatz-Drahtbügel Spare part: steel wire (1 Stück/1 piece)
1	RB.052x025.001.X.V	2	VRB.001
2	RB.052x025.002.X.V	2	VRB.001
3	RB.060x029.003.X.V	2	VRB.003
4	RB.080x022.005.X.V	--	nein/no
5	RB.080x030.006.X.V	3	VRB.006
6	RB.080x040.007.X.V	3	VRB.007
7	RB.080x050.008.X.V	3	VRB.008
8	RB.079x029.004.X.V	2	VRB.004

Vakuumsauger - Handling von Glas

Vacuum Suction Cups - Handling of Glass

Abdruckfrei und für hohe Temperaturen (patentiert)/*antimarking and for high temperatures (patented)*

- Sauger mit aufvulkanisierter Filzauflage
- Abdruckfrei durch Spezial-Filzauflage
- *Material: Spezialsilikon mit Silikonsperrschicht und Filzauflage bis 550° C
- FKM mit Filzauflage bis 350° C



- Vacuum cups with vulcanized felt
- Anti-marking with special vulcanized felt
- *Material: Special silicone with silicone barrier and felt up to 550° C
- FKM with vulcanized felt up to 350° C

Die max. Einsatztemperaturen sind abhängig von Kontaktdauer, Dauer der Abkühlphase und der nachströmenden Wärmemenge.

Geeignet für: Kurze Kontaktdauer, lange Abkühlphase, dünne Werkstücke. Wir empfehlen bei ungünstigen Einsatzbedingungen Versuche mit Mustersaugern durchzuführen.

Diese Spezialsauger dürfen nur bei glatten oder leicht gekrümmten Werkstücken verwendet werden.

Einsatzgebiete: Glas, lackierte oder polierte Teile, Bleche, Kunststoffplatten, Keramik, Marmor usw.

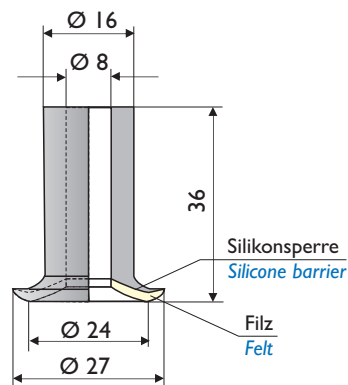
Max. operating temperature is a function of contact duration, duration of cooling phase and the amount of heat following. Suitable for: Brief contact duration, long cooling phase, thin workpieces. Tests with sample cups are recommended for longer contact duration.

These special-purpose suction cups be use only with smooth and lightly curved workpieces.

Use: Glass, lacquered or polished parts, sheet metal, plastic plates, ceramic, marble etc.

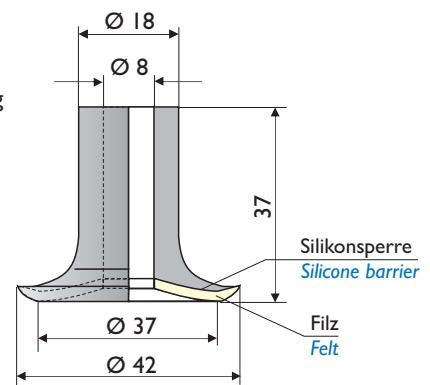
Art. No.: FF024.*

Hub/*Stroke*: 2,0 mm
Gewicht/*Weight*: 6 g



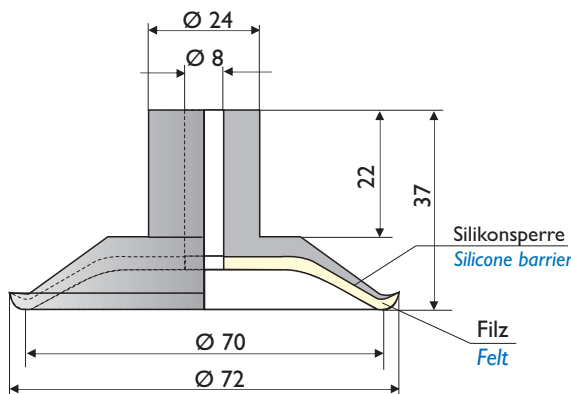
Art. No.: FF037.*

Hub/*Stroke*: 3,5 mm
Gewicht/*Weight*: 10 g

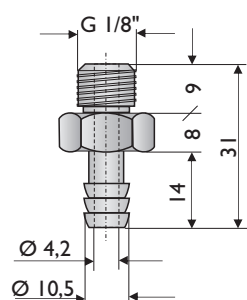


Art. No.: FF070.*

Hub/*Stroke*: 8,0 mm
Gewicht/*Weight*: 25 g



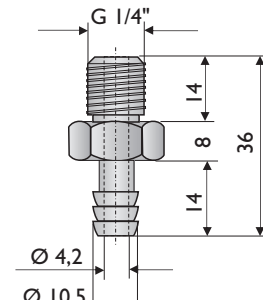
Anschlussstück/*Fitting*
AT.0132 - AG 1/8"



Hinweis:

Anschlussstücke müssen separat bestellt werden.
Sonderabmessungen auf Wunsch

Anschlussstück/*Fitting*
00 08 10 - AG 1/4"



Note:

Fittings should be ordered separately.
Special dimensions on request.

Abdruckfrei und für hohe Temperaturen (patentiert)/*antimarking and for high temperatures (patented)*

*Material:

Spezialsilikon mit Silikonsperre und Filzauflage bis 550° C
 FKM mit Filzauflage vulkanisiert bis 350° C

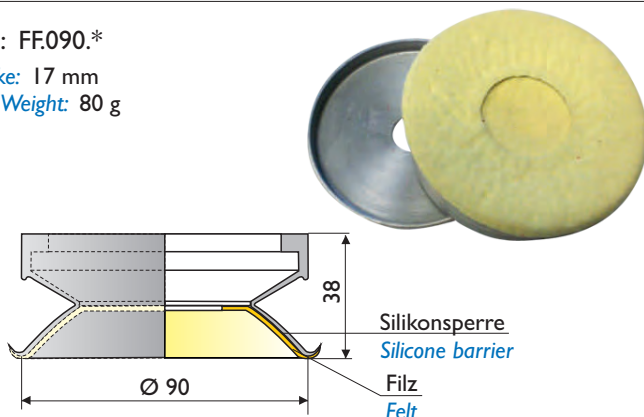
*Material:

*Special silicone with silicone barrier and felt up to 550° C
 FKM with vulcanized felt up to 350° C*

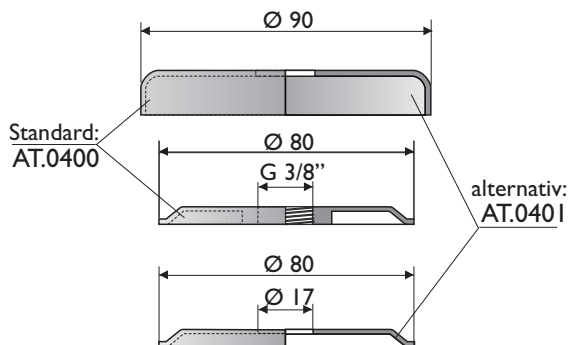
Art. No.: FF.090.*

Hub/Stroke: 17 mm

Gewicht/Weight: 80 g



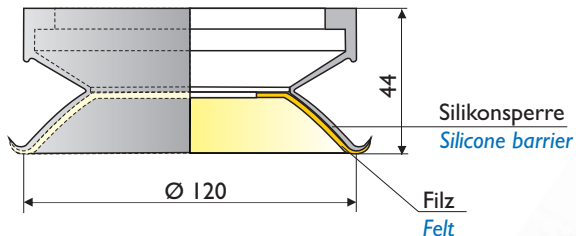
Anschlussstück/Fitting
 (Stahl/Steel)



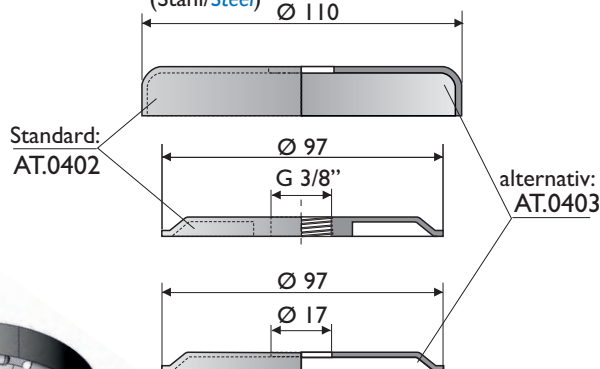
Art. No.: FF.120.*

Hub/Stroke: 18 mm

Gewicht/Weight: 140 g



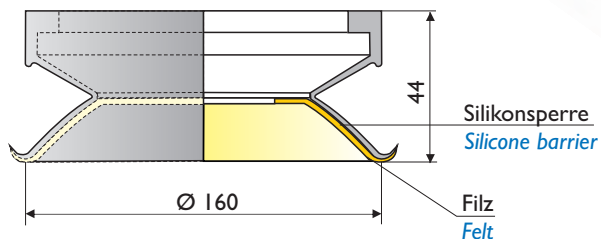
Anschlussstück/Fitting
 (Stahl/Steel)



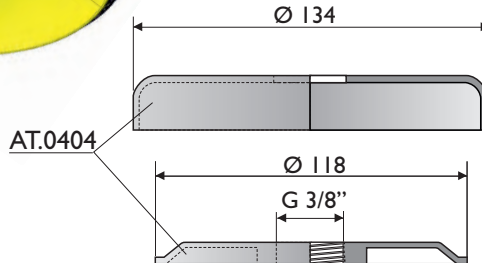
Art. No.: FF.160.*

Hub/Stroke: 18 mm

Gewicht/Weight: 205 g



Anschlussstück/Fitting
 (Stahl/Steel)



Bemerkung:

Bei mangelnder Luftdurchlässigkeit
 kleine Schlitz im Filz einbringen.

Note:

*In case of lack of air permeability,
 please cut the felt.*



Hinweis:

Anschlussstücke müssen gesondert bestellt werden.
 Sonderabmessungen auf Anfrage.

Note:

*Fittings should be ordered separately.
 Special dimensions on request.*

Vakuumsauger - Handling von Glas

Vacuum Suction Cups - Handling of Glass

Abdruckfrei und für hohe Temperaturen (patentiert)/*antimarking and for high temperatures (patented)*

*Material:

Spezialsilikon mit Silikonsperre und Filzauflage bis 550° C
 FKM mit Filzauflage vulkanisiert bis 350° C

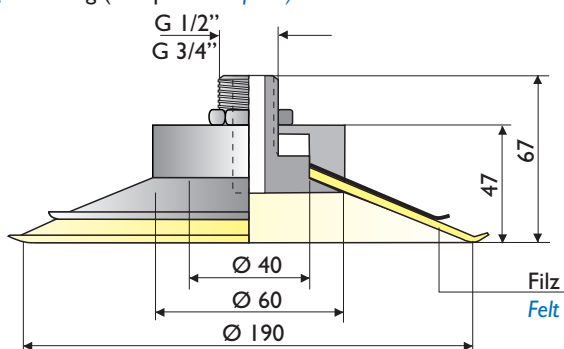
*Material:

Special silicone with silicone barrier and felt up to 550° C
FKM with vulcanized felt up to 350° C

Art. No.: FF.190.*

Hub/*Stroke*: 12,5 mm

Gewicht/*Weight*: 1400 g (komplett/*complete*)



Anschlusssteil/*Fittings* (Stahl/*Steel*)

AT.0405 - AG 1/2" (Standard)

AT.0406 - AG 3/4" (Alternative)



Stützscheiben/*Supports* (Stahl/*Steel*)

Hinweis zu Art. No. FF.190:

Die Anschlusssteile müssen gesondert bestellt werden.
 Sonderabmessungen auf Anfrage.

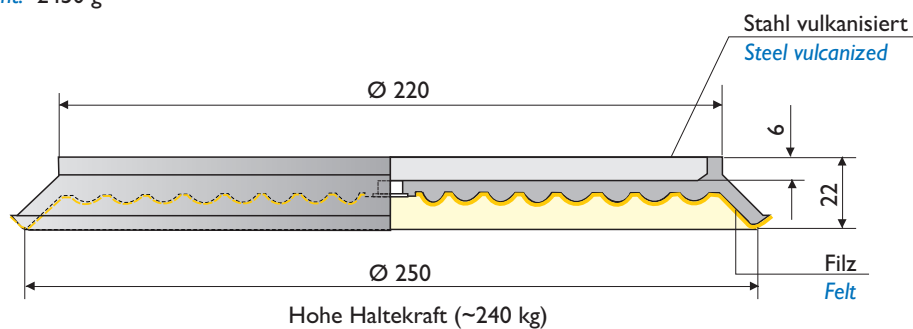
Note to Art. No. FF.190:

The fittings should be ordered separately .
Special dimensions on request.

Art. No.: FF.250.*

Hub/*Stroke*: 7 mm

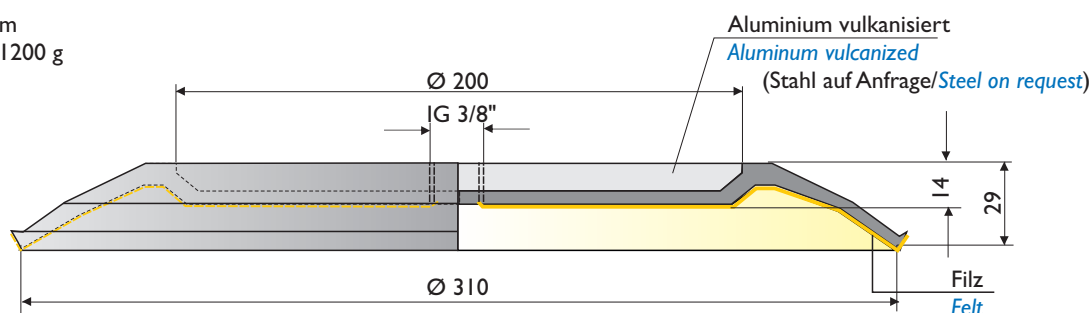
Gewicht/*Weight*: 2450 g



Art. No.: FF.310.*

Hub/*Stroke*: 14 mm

Gewicht/*Weight*: 1200 g



Abdruckfrei (patentiert)/*antimarking (patented)*

- Abdruckfrei durch eine spezielle Textilauflage
- Textilauflage auf Sauger vulkanisiert
- Temperaturbeständig bis 80°C
(keine hohen Temperaturen)
- Aluminiumaufnahme in Sauger einstellbar

Wichtig:

Diese Spezialsauger können nur bei leicht gewölbten oder glatten Teilen eingesetzt werden.

Einsatzgebiete:

Glas, polierte oder lackierte Teile, Autoscheiben, Kunststoffplatten, eloxierte Bleche, Keramik, Marmor usw.

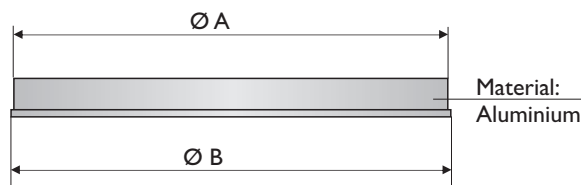
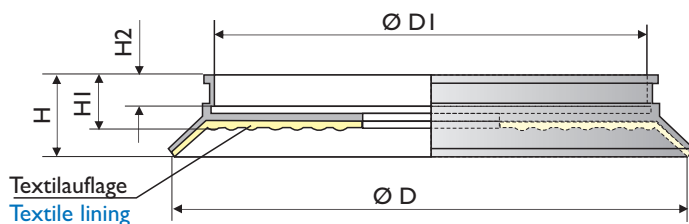
- *Antimarking due to special textile lining.*
- *Suction cup with vulcanized textile lining*
- *Temperature resistant up to 80°C
(not for high temperatures)*
- *Suction cup can be slipped into aluminum fitting*

Important:

These special purpose suction cups should be used only with lightly curved or smooth workpieces.

Uses:

Glass, polished or enameled parts, car windows, plastic plates, metal sheets, marble, ceramics etc.



Art. No. Vakuumsauger <i>Suction cup</i>	Abmessungen/ <i>Dimensions</i> in mm							Hub/ <i>Stroke</i> mm	Gewicht/ <i>Weight</i> g	Art. No. Anschlusssteile/ <i>Fittings</i>	Gewicht/ <i>Weight</i> g
	Ø D	Ø DI	H	H1	H2	A	B				
FT.112.NBR	112	97	24,0	19	15	97	100	4,0	50	AT.0531	330
FT.140.NBR	140	120	23,0	19	15	120	123	4,0	70	AT.0532	520
FT.160.NBR	160	137	22,5	19	15	137	141	3,5	100	AT.0533	660

Hinweis:

- Werden Anschlusssteile benötigt, so müssen diese separat bestellt werden.
- Sonderabmessungen auf Anfrage
- Schwere Teile bitte zusätzlich mit Kabelbinder oder Schlauchschelle sichern!

Note:

- *Are fittings needed, please order them separately.*
- *Special dimensions on request*
- *Heavy parts secure in addition with cable binder or hose clamp!*

Vakuumsauger - Druckindustrie

Vacuum Suction Cups - Printing Industry

Als Lieferant von Vakuumsaugern an verschiedene Unternehmen aus der Druckindustrie haben wir für diese Branche die meist verwendeten Typen von Vakuumsaugern dargestellt. Wenn Sie ihren gewünschten Artikel in diesem Katalog nicht finden, so senden Sie uns bitte ein Foto, eine Skizze oder Muster zu. Bitte geben Sie uns dazu auch die von ihnen gewünschte Stückzahl an.

Einsatz finden unsere Vakuumsauger u. a. in folgende Maschinen aus der Druckereiindustrie:
 AB DICK – ATF CHIEF - AURELIA - ASTRO - BOBST - CUMMINGTON – DEXTER – FUJI SHINOHARA – HAMADA – HARRIS – HEIDELBERG – HORIZON – KLUGE – KOLBUS – KOMORI - MAN ROLAND - MIELE – MÜLLER MARTINI – PHILLIPSBURG - RYOBI – SHERIDIAN – UHLMANN

Im unserem Lieferprogramm haben wir außerdem folgende Komponenten, die nicht nur in der Druckindustrie Verwendung finden: Vakuumpumpen – Pneumatische Saug- und Gebläse-pumpen - Vakuumfilter – Vakuumventile – Vakuumschläuche uvm. Unterlagen hierzu sehen Sie auf unserer Website www.mf-automation.com oder in unserem Katalog, den wir Ihnen auf Wunsch sehr gerne zusenden.

*As a supplier of vacuum cups to various companies from the printing industry we have the most for this branch used types of vacuum cups shown.
 If you cannot find your desired item in this catalog, please send us a photo, sketch or sample.
 Please also give us the quantity of items you require.*

*Our vacuum cups you will find in the following machines from the printing industry:
 AB DICK – ATF CHIEF - AURELIA - ASTRO - BOBST - CUMMINGTON – DEXTER – FUJI SHINOHARA – HAMADA – HARRIS – HEIDELBERG – HORIZON – KLUGE – KOLBUS – KOMORI - MAN ROLAND - MIELE – MÜLLER MARTINI – PHILLIPSBURG - RYOBI – SHERIDIAN – UHLMANN*

*We also have the following components in our delivery program which are not only used in the printing industry: vacuum pumps - pneumatic suction and blower pumps - vacuum filters - vacuum valves - vacuum tubes and much more.
 You can find documents on our website www.mf-automation.com or in our special catalog, which we send to you on your request.*



Inhalt	Seite
Saugscheiben „DR“	I.035
Flachsauger	I.036 - I.058
Spezialflachsauger Serie A	I.059 - I.060
Balgensauger	I.061 - I.066
Ovalsauger	I.067
Zubehör/Komponenten	I.068 - I.069

Contens	Page
Flat Rubber Disks	I.035
Flat Suction Cups	I.036 - I.058
Series A - Special Cups	I.059 - I.060
Bellows Suction Cups	I.061 - I.066
Oval Suction Cups	I.067
Accessories/Components	I.068 - I.069



Hinweis:

- Sondergrößen auf Anfrage und Seite I.068
- Saugscheibenhalter siehe Seite I.068

Notes:

- *Special shapes on request and page I.068*
- *Holder for flat rubber disk see page I.068*

Material <i>Material</i>	Dicke <i>Thickness</i> mm	Farbe <i>Color</i>	Farb-No.* <i>Color-No.*</i>
NR**	0,5	weiß/ <i>white</i>	1
NR	0,8	rosa/ <i>pink</i>	2
NR	1,0	beige/ <i>beige</i>	3
NR	1,6	weiß/ <i>white</i>	4
NR	2,0	grün/ <i>green</i>	5
PU	0,8	transparent	6

** Naturgummi/*Natural Rubber*

Die Saugscheiben werden vor allem in der Druckindustrie als Vakuumsauger für Papier und Kartonen verwendet. Die verschiedenen Materialdicken sind farblich gekennzeichnet. An die Artikel-Nummer wird als letzte Zahl die Farbnummer* angehängt.

Verpackungseinheit = 100 Stück

The Flat Rubber Discs are mainly used in the printing industry as vacuum suction cups for paper and cardboards.

The various material thickness are color coded.

To the item number as last is appended the color number.*

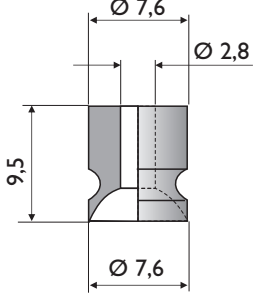
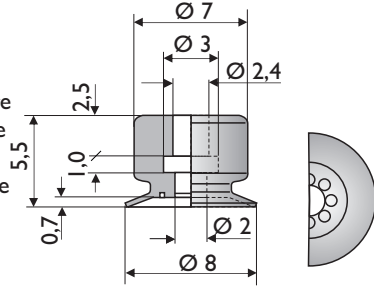
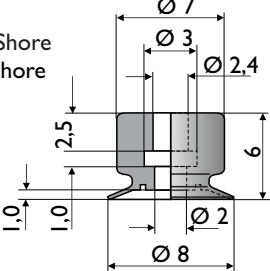
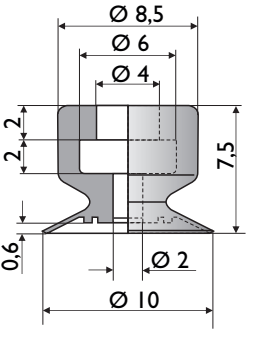
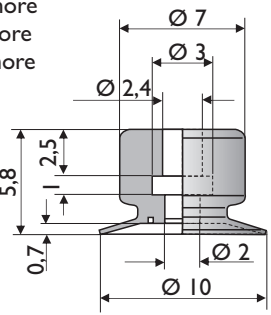
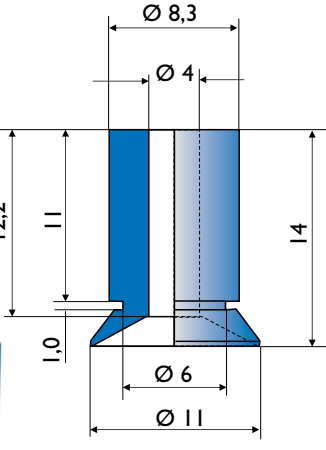
Packing unit = 100 pieces

Pos.	Art. No.	Außen-Ø <i>External dia.</i>	Innen-Ø <i>Internal dia.</i>
1	DR.127.001.*	12,7	1,6
2	DR.159.002.*	15,9	1,6
3	DR.159.003.*	15,9	3,2
4	DR.175.004.*	17,5	3,2
5	DR.190.005.*	19,0	1,6
6	DR.190.006.*	19,0	3,2
7	DR.190.007.*	19,0	4,8
8	DR.190.008.*	19,0	6,4
9	DR.206.009.*	20,6	3,2
10	DR.206.010.*	20,6	4,8
11	DR.206.011.*	20,6	7,9
12	DR.222.012.*	22,2	3,2
13	DR.222.013.*	22,2	4,8
14	DR.222.014.*	22,2	6,4
15	DR.238.015.*	23,8	4,8
16	DR.238.016.*	23,8	6,4
17	DR.238.017.*	23,8	9,5
18	DR.238.018.*	23,8	11,1
19	DR.238.019.*	23,8	12,7
20	DR.254.020.*	25,4	4,8
21	DR.254.021.*	25,4	6,4
22	DR.254.022.*	25,4	7,9
23	DR.254.023.*	25,4	9,5
24	DR.270.024.*	27,0	3,2
25	DR.270.025.*	27,0	4,8
26	DR.270.026.*	27,0	6,4
27	DR.270.027.*	27,0	9,5
28	DR.286.028.*	28,6	6,4
29	DR.286.029.*	28,6	7,9
30	DR.286.030.*	28,6	9,5
31	DR.286.031.*	28,6	11,1
32	DR.286.032.*	28,6	12,7
33	DR.286.033.*	28,6	14,3
34	DR.302.034.*	30,2	7,9
35	DR.302.035.*	30,2	9,5

Pos.	Art. No.	Außen-Ø <i>External dia.</i>	Innen-Ø <i>Internal dia.</i>
36	DR.302.036.*	30,2	12,7
37	DR.302.037.*	30,2	14,3
38	DR.302.038.*	30,2	19,0
39	DR.318.039.*	31,8	4,8
40	DR.318.040.*	31,8	6,4
41	DR.318.041.*	31,8	9,5
42	DR.318.042.*	31,8	11,1
43	DR.318.043.*	31,8	12,7
44	DR.318.044.*	31,8	14,3
45	DR.318.045.*	31,8	15,9
46	DR.350.046.*	35,0	4,8
47	DR.350.047.*	35,0	9,5
48	DR.350.048.*	35,0	12,7
49	DR.350.049.*	35,0	14,3
50	DR.350.050.*	35,0	15,9
51	DR.381.051.*	38,1	4,8
52	DR.381.052.*	38,1	6,4
53	DR.381.053.*	38,1	9,5
54	DR.381.054.*	38,1	11,1
55	DR.381.055.*	38,1	12,7
56	DR.381.056.*	38,1	14,3
57	DR.381.057.*	38,1	15,9
58	DR.413.058.*	41,3	9,5
59	DR.413.059.*	41,3	12,7
60	DR.413.060.*	41,3	14,3
61	DR.413.061.*	41,3	15,9
62	DR.445.062.*	44,5	7,9
63	DR.445.063.*	44,5	12,7
64	DR.445.064.*	44,5	14,3
65	DR.445.065.*	44,5	15,9
66	DR.445.066.*	44,5	20,6
67	DR.508.067.*	50,8	6,4
68	DR.508.068.*	50,8	7,9
69	DR.508.069.*	50,8	12,7
70	DR.508.070.*	50,8	14,3

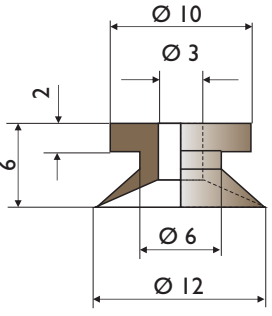
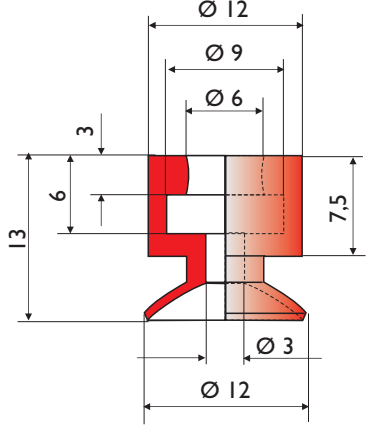
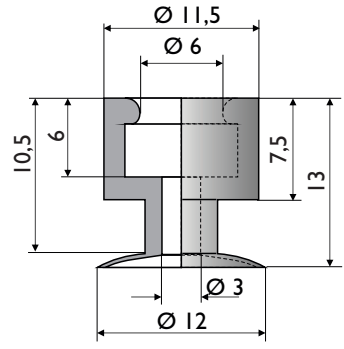
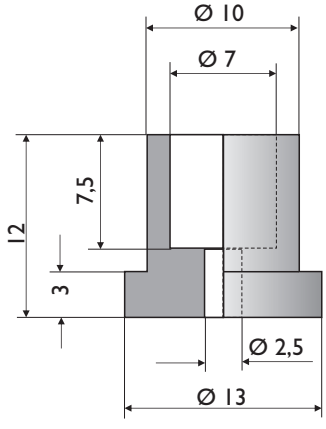
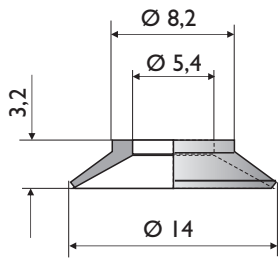
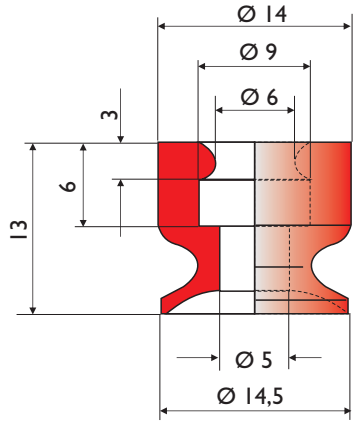
Flachsauger - Druckindustrie Ø 8 - 11 mm

Flat Suction Cups - Printing Industry dia. 8 - 11 mm

<p>Art. No.: F0.008.007.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: NR schwarz/<i>black</i></p> 	<p>Art. No.: F0.008.002.* Hub/<i>Stroke</i>: 0,5 mm Gewicht/<i>Weight</i>: 0,2 g</p> <p>* Material: NBR schwarz/<i>black</i> 60° Shore Silikon transparent 50° Shore Silikon rot/<i>red</i> 50° Shore Fluorsilikon rot/<i>red</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0283 - AG M5 AT.0111 - AG M4</p> <p>• Vorteil: sehr dünne Sauglippe <i>Advantage: very thin suction lip</i></p> 
<p>Art. No.: F0.008.008.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 0,2 g</p> <p>*Material: NBR schwarz/<i>black</i> 60° Shore Silikon transparent 50° Shore Silikon rot/<i>red</i> 50° Shore</p>  <p>Anschlusssteile/<i>Fittings</i> AT.0283 - AG M5 AT.0111 - AG M4</p>	<p>Art. No.: F0.010.002.* Hub/<i>Stroke</i>: 0,6 mm Gewicht/<i>Weight</i>: 0,3 g</p> <p>*Material: NBR schwarz/<i>black</i> 50° Shore Silikon transparent 60° Shore Silikon transparent 20° Shore Silikon blau/<i>blue</i> 60° Shore Silikon schwarz/<i>black</i> antistatisch/<i>antistatic</i> 50° Shore</p> <p>Auf Anfrage/<i>on request</i> Silikon +300° C (SHT)</p> <p>Abstütznoppen, positionsstabil <i>Cleats, position stable</i></p>  <p>Anschlusssteile/<i>Fittings</i> AT.0536 - AG M5 AT.0650 - AG M5</p>
<p>Art. No.: F0.010.013.* Hub/<i>Stroke</i>: 0,7 mm Gewicht/<i>Weight</i>: 0,3 g</p> <p>* Material: NBR schwarz/<i>black</i> 60° Shore Silikon transparent 50° Shore Fluorsilikon rot/<i>red</i> 40° Shore</p> <p>• Vorteil: sehr dünne Sauglippe <i>Advantage: very thin suction lip</i></p>  <p>Anschlusssteile/<i>Fittings</i> AT.0283 - AG M5 AT.0111 - AG M4</p>	<p>Art.No.: F0.011.002.* Hub/<i>Stroke</i>: 1,8 mm Gewicht/<i>Weight</i>: 0,8 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0134 - AG M5 AT.0705 - IG M5-Alu AT.0104 - AG M6-Alu</p> 

Flachsauger - Druckindustrie Ø 12 - 14 mm

Flat Suction Cups - Printing Industry dia. 12 - 14 mm

<p>Art. No.: F0.012.004.* Hub/<i>Stroke</i>: 2,5 mm Gewicht/<i>Weight</i>: 0,2 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> 	<p>Art. No.: F0.012.005.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0137 - AG M5 AT.0085 - AG 1/8" AT.0086 - IG 1/8"</p> 
<p>Art. No.: F0.012.007.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NBR schwarz/<i>black</i> Silikon transparent</p> 	<p>Art. No.: F0.013.001.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR schwarz/<i>black</i> NR rot/<i>red</i> - auf Anfrage/<i>on request</i></p> 
<p>Art. No.: F0.014.001.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 0,3 g</p> <p>*Material: NBR schwarz/<i>black</i> PU blau/<i>blue</i></p> 	<p>Art. No.: F0.014.002.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0137 - AG M5 AT.0085 - AG 1/8" AT.0086 - IG 1/8"</p> 

Flachsauger - Druckindustrie Ø 14 - 15 mm

Flat Suction Cups - Printing Industry da. 14 - 15 mm

Art. No.: F0.014.003.*

Hub/*Stroke*: 2,5 mm

Gewicht/*Weight*: 1,0 g

*Material:

Vulkollan braun/*brown 70° Shore*

hochverschleißfest/

high wear resistant

hochabdruckarm/

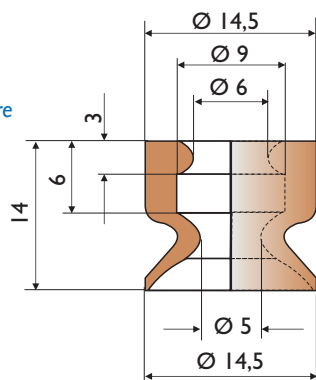
high anti-marking

Anschlusssteile/*Fittings*

AT.0137 - AG M5

AT.0085 - AG 1/8"

AT.0086 - IG 1/8"



Art. No.: F0.015.001.*

Hub/*Stroke*: 1,1 mm

Gewicht/*Weight*: 0,4 g

*Material:

NBR schwarz/*black 60° Shore*

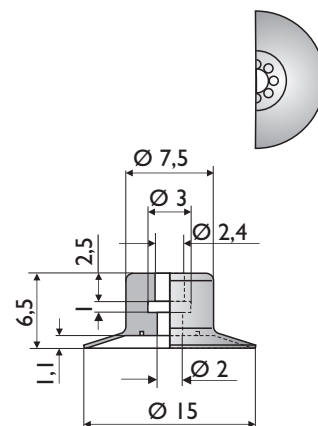
Silikon transparent 50° Shore

Fluorsilikon rot/*red 40° Shore*

Anschlusssteile/*Fittings*

AT.0283 - AG M5

AT.0111 - AG M4



Vorteil: sehr dünne Sauglippe

Advantage: Ultrathin suction lip

Art. No.: F0.015.012.*

Hub/*Stroke*: 0,9 mm

Gewicht/*Weight*: 0,5 g

*Material:

NBR schwarz/*black 40°/60° Shore*

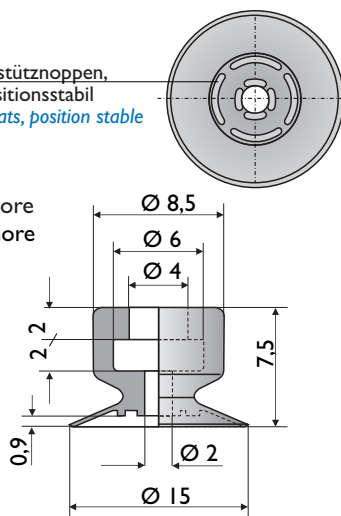
Silikon transparent 40°/ 60° Shore

Anschlusssteile/*Fittings*

AT.0283 - AG M5

AT.0111 - AG M4

Abstütznoppen,
positionsstabil
Cleats, position stable



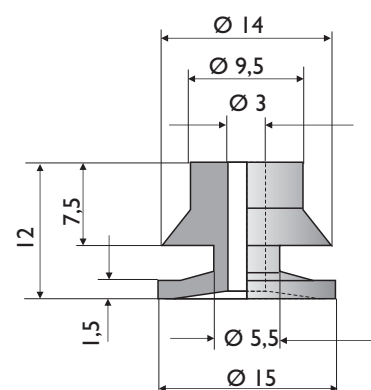
Art. No.: F0.015.008.*

Hub/*Stroke*: 1,0 mm

Gewicht/*Weight*: 1,0 g

*Material:

NR schwarz/*black*



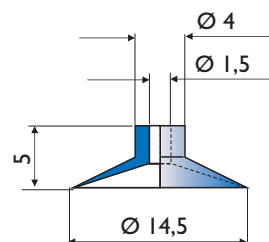
Art. No.: F0.015.009.*

Hub/*Stroke*: 1,0 mm

Gewicht/*Weight*: 0,5 g

*Material:

Vinyl blau/*blue*



Art. No.: F0.015.011.*

Hub/*Stroke*: 0,0 mm

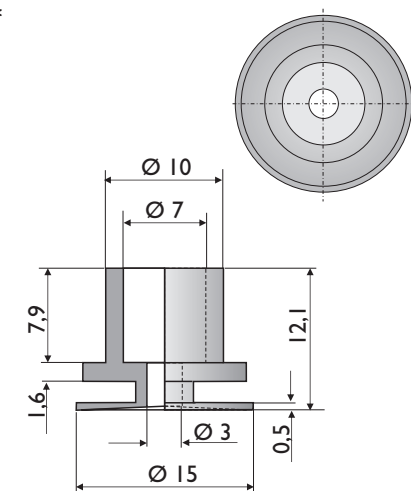
Gewicht/*Weight*: 1,0 g

*Material:

NR schwarz/*black*

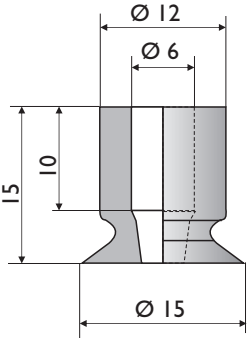
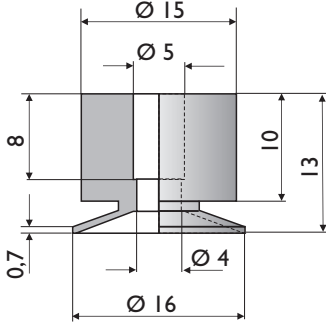
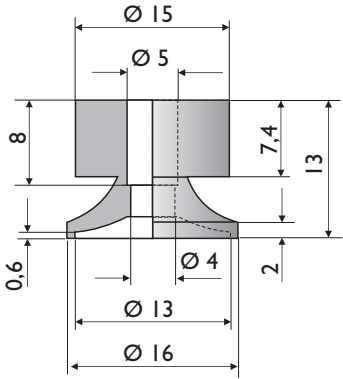
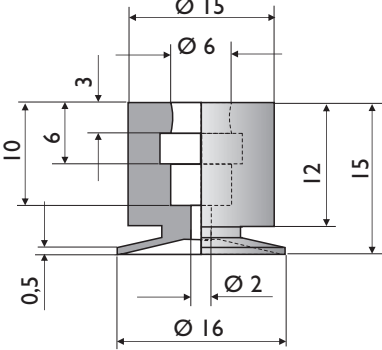
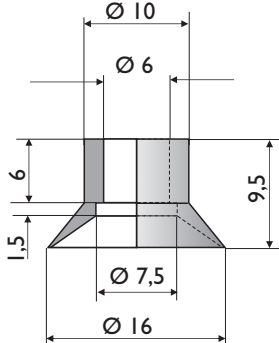
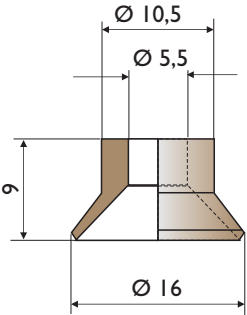
Auf Anfrage/*on request*

NR rot/*red*



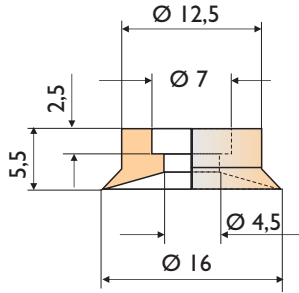
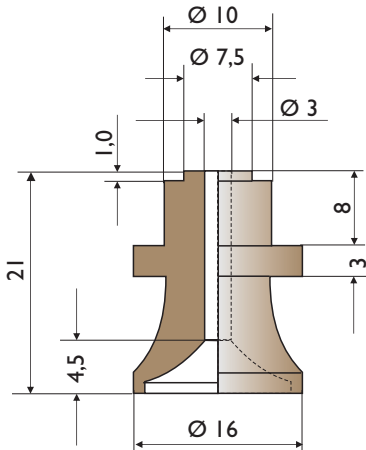
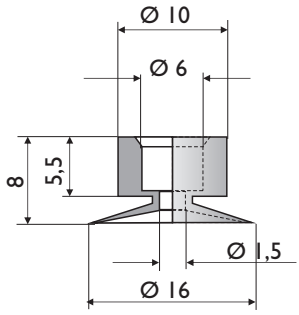
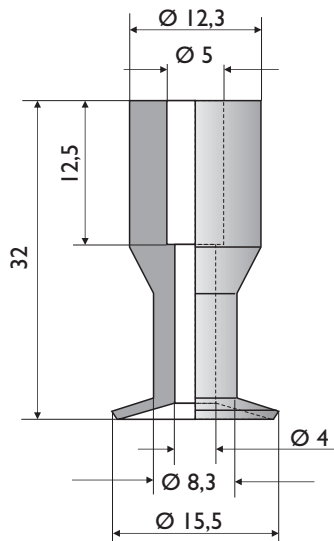
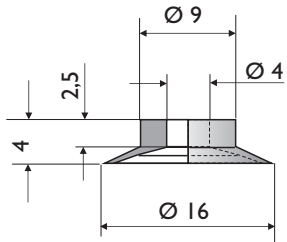
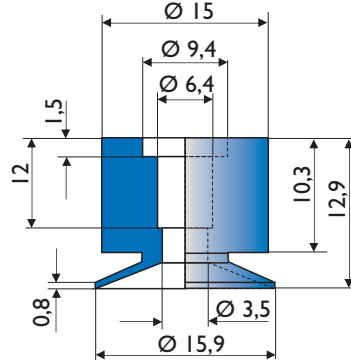
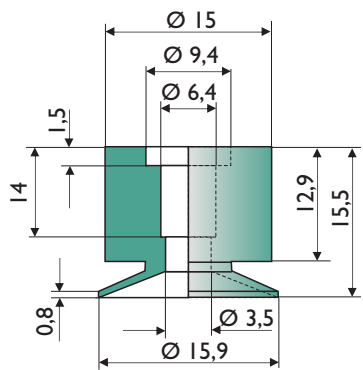
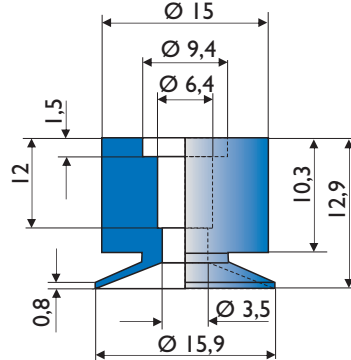
Flachsauger - Druckindustrie Ø 15 - 16 mm

Flat Suction Cups - Printing Industry dia. 15 - 16 mm

<p>Art. No.: 01 15 15.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 1,1 g</p> <p>*Material: NR schwarz/<i>black</i> Silikon transparent</p> 	<p>Art. No.: F0.016.001.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 2,4 g</p> <p>* Material: NR schwarz/<i>black</i> 40° Shore</p> 
<p>Art. No.: F0.016.002.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 2,3 g</p> <p>* Material: NR schwarz/<i>black</i> 40° Shore</p> 	<p>Art. No.: F0.016.007.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 2,5 g</p> <p>* Material: NR grau/<i>grey</i> 40° Shore</p> 
<p>Art. No.: F0.016.008.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 0,4 g</p> <p>*Material: NR grau/<i>grey</i> 40° Shore</p> 	<p>Art. No.: F0.016.009.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 0,4 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> 

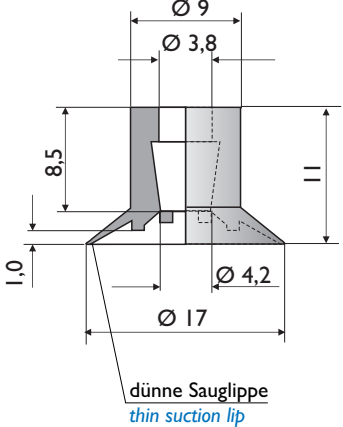
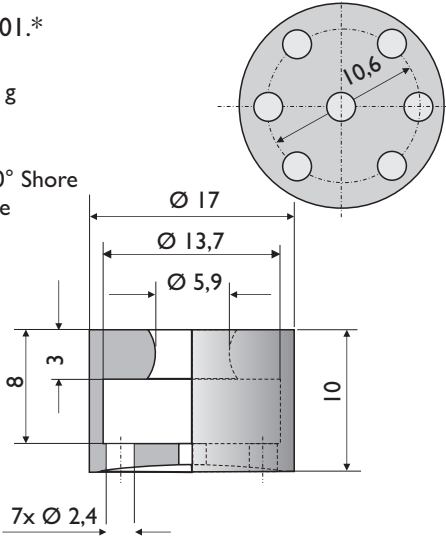
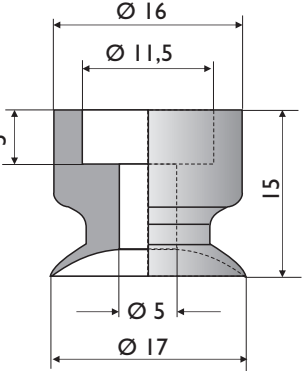
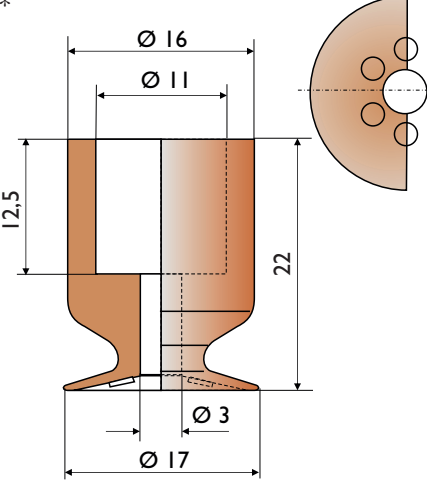
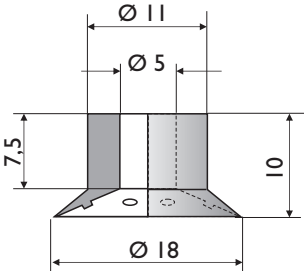
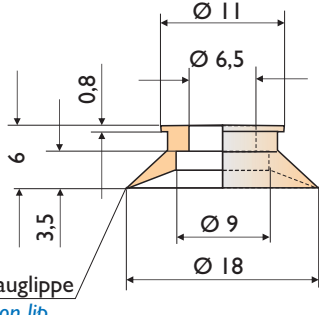
Flachsauger - Druckindustrie Ø 16 mm

Flat Suction Cups - Printing Industry dia. 16 mm

<p>Art. No.: F0.016.010.* Hub/<i>Stroke</i>: 0,3 mm Gewicht/<i>Weight</i>: 0,4 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: F0.016.011.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,6 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> 
<p>Art. No.: F0.016.012.* Hub/<i>Stroke</i>: 0,5 mm Gewicht/<i>Weight</i>: 0,4 g</p> <p>*Material: NR grau/<i>grey</i> 40° Shore</p> 	<p>Art. No.: F0.016.014.* Hub/<i>Stroke</i>: 0,8 mm Gewicht/<i>Weight</i>: 3,0 g</p> <p>*Material: NR schwarz/<i>black</i> 40° Shore</p> 
<p>Art. No.: F0.016.013.* Hub/<i>Stroke</i>: 0,5 mm Gewicht/<i>Weight</i>: 0,8 g</p> <p>*Material: NR weiss/<i>white</i> 40° Shore</p> 	<p>Art. No.: F0.016.021.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 1,8 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 
<p>Art. No.: F0.016.015.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 2,9 g</p> <p>*Material: Vinyl grün/<i>green</i></p> 	<p>Art. No.: F0.016.021.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 1,8 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 

Flachsauger - Druckindustrie Ø 17 - 18 mm

Flat Suction Cups - Printing Industry dia. 17 - 18 mm

<p>Art. No.: 01 17 12.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 0,8 g</p> <p>*Material: NBR schwarz/<i>black</i> NR schwarz/<i>black</i> Silikon transparent</p> <p>Anschlusssteile/<i>Fittings</i> AT.0134 - AG M5 00 08 06 - AG M5 AT.0705 - IG M5 AT.0104 - AG M6 00 08 03 - AG 1/8"</p> 	<p>Art. No.: F0.017.001.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: NR schwarz/<i>black</i> 50° Shore NR rot/<i>red</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0200 - AG M5</p> 
<p>Art. No.: F0.017.003.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR schwarz/<i>black</i> 50° Shore</p> 	<p>Art. No.: F0.017.004.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 2,4 g</p> <p>*Material: Vulkollan braun/<i>brown</i> 70° Shore hochverschleissfest/ <i>high wear resistant</i> hochabdruckarm/ <i>high anti-marking</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 
<p>Art. No.: 01 18 12.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR schwarz/<i>black</i> NBR schwarz/<i>black</i> Silikon transparent</p> <p>Anschlusssteil/<i>Fitting</i> AT.0613 - AG M5</p> 	<p>Art. No.: F0.018.001.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 0,2 g</p> <p>*Material: NR beige 40° Shore</p> <p>dünne Sauglippe <i>thin suction lip</i></p> 

Flachsauger - Druckindustrie Ø 18 mm

Flat Suction Cups - Printing Industry dia. 18 mm

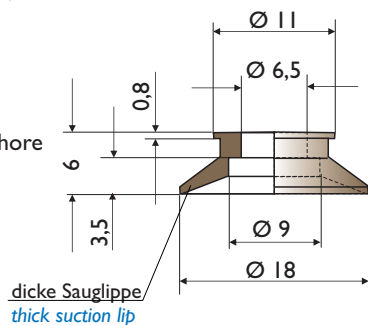
Art. No.: F0.018.001.*

Hub/*Stroke*: 1,0 mm

Gewicht/*Weight*: 0,2 g

*Material:

NR braun/*brown* 40° Shore



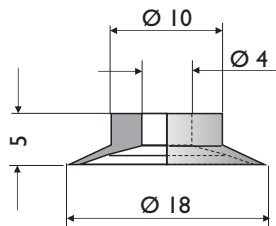
Art. No.: F0.018.005.*

Hub/*Stroke*: 1,0 mm

Gewicht/*Weight*: 0,2 g

*Material:

NR schwarz/*black*



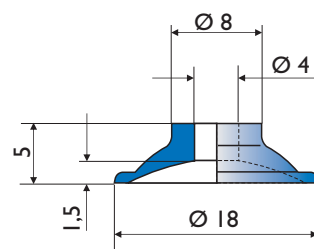
Art. No.: F0.018.006.*

Hub/*Stroke*: 1,5 mm

Gewicht/*Weight*: 0,4 g

*Material:

Vinyl blau/*blue*



Art. No.: F0.018.007.*

Hub/*Stroke*: 0,5 mm

Gewicht/*Weight*: 1,3 g

*Material:

Vinyl blau/*blue*

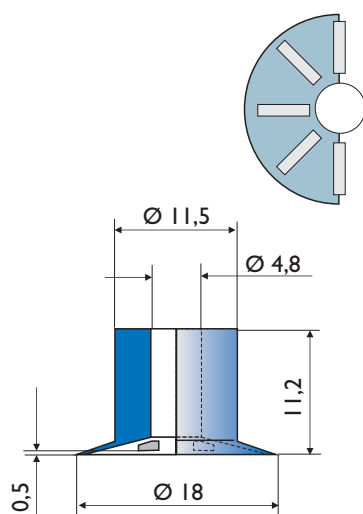
Anschlusssteile/*Fittings*

AT.0613 - AG M5

AT.0104 - AG M6

AT.0003 - AG G1/8"

AT.0615 - IG G1/8"



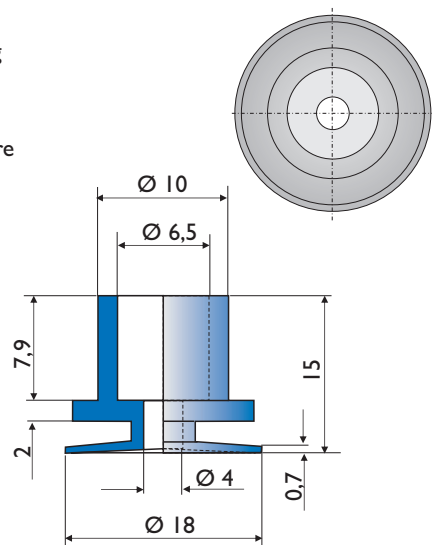
Art. No.: F0.018.011.*

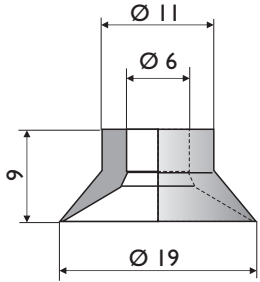
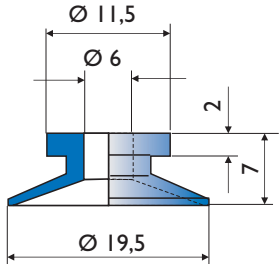
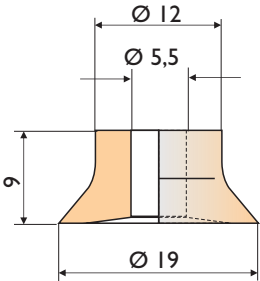
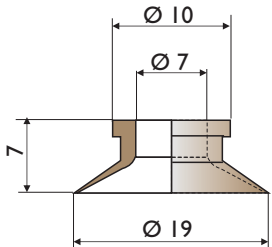
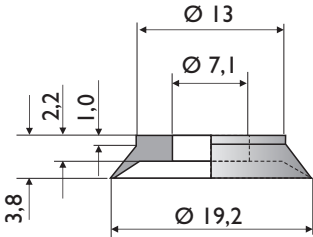
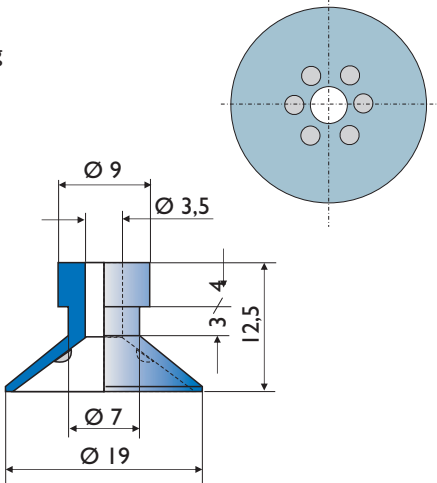
Hub/*Stroke*: 1,0 mm

Gewicht/*Weight*: 1,2 g

*Material:

NR blau/*blue* 50° Shore



<p>Art. No.: F0.019.001.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,1 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore Silikon transparent</p> 	<p>Art. No.: F0.019.002.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 
<p>Art. No.: F0.019.003.* Hub/<i>Stroke</i>: 0,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: F0.019.004.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> 
<p>Art. No.: F0.019.005.* Hub/<i>Stroke</i>: 1,6 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: NR blau/<i>blue</i> 40° Shore PU rot/<i>red</i></p> 	<p>Art. No.: F0.019.006.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0134 - AG M5 AT.0705 - IG M5 AT.0104 - AG M6</p> 

Flachsauger - Druckindustrie Ø 20 mm

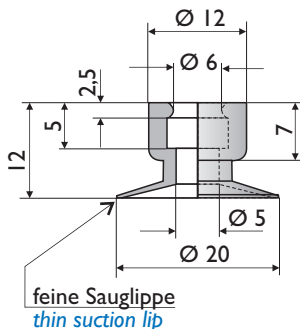
Flat Suction Cups - Printing Industry dia. 20 mm

Art. No.: 01 20 12.*

Hub/*Stroke*: 1,5 mm
Gewicht/*Weight*: 1,5 g

*Material:
NR schwarz/*black*
NBR schwarz/*black*
Silikon transparent

Anschlusssteile/*Fittings*
AT.0137 - AG M5
AT.0085 - AG 1/8"
AT.0086 - IG 1/8"

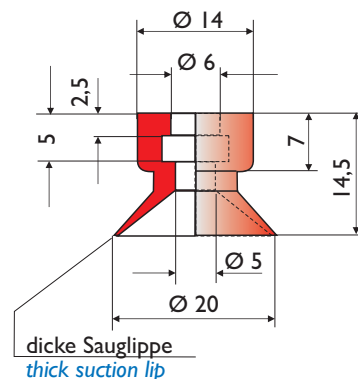


Art. No.: 01 20 14.*

Hub/*Stroke*: 3,5 mm
Gewicht/*Weight*: 1,5 g

*Material:
NR rot/*red* 40° Shore

Anschlusssteile/*Fittings*
AT.0137 - AG M5
AT.0085 - AG 1/8"
AT.0086 - IG 1/8"

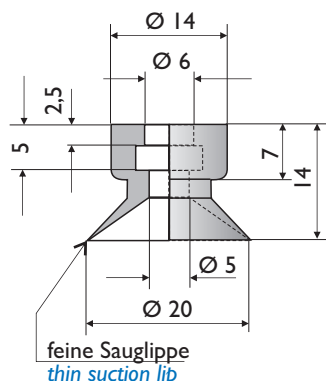


Art. No.: 01 20 15.*

Hub/*Stroke*: 3,0 mm
Gewicht/*Weight*: 1,5 g

*Material:
NR schwarz/*black*
NBR schwarz/*black*
Silikon transparent

Anschlusssteile/*Fittings*
AT.0137 - AG M5
AT.0085 - AG 1/8"
AT.0086 - IG 1/8"

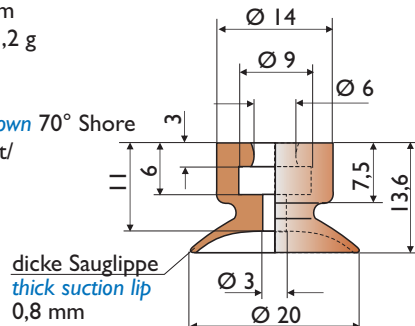


Art. No.: F0.020.002.*

Hub/*Stroke*: 2,5 mm
Gewicht/*Weight*: 1,2 g

*Material:
Vulkollan braun/*brown* 70° Shore
hochverschleissfest/
high wear resistant
hochabdruckarm/
high anti-marking

Anschlusssteile/*Fittings*
AT.0137 - AG M5
AT.0085 - AG 1/8"
AT.0086 - IG 1/8"

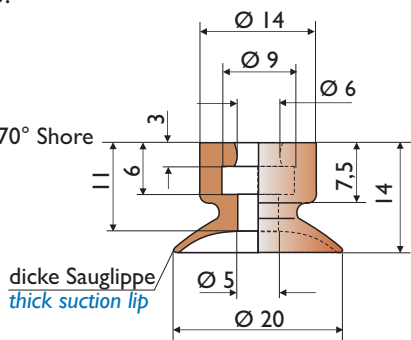


Art. No.: F0.020.003.*

Hub/*Stroke*: 2,5 mm
Gewicht/*Weight*: 1,2 g

*Material:
Vulkollan braun/*brown* 70° Shore
hochverschleissfest/
high wear resistant
hochabdruckarm/
high anti-marking

Anschlusssteile/*Fittings*
AT.0137 - AG M5
AT.0085 - AG 1/8"
AT.0086 - IG 1/8"

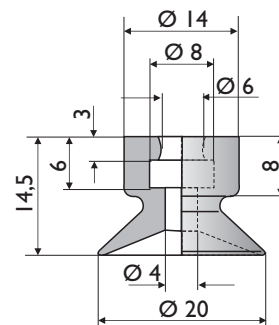


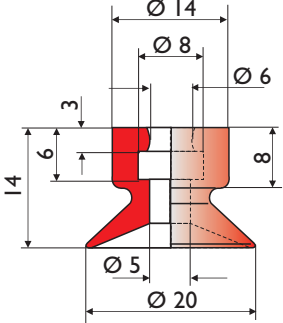
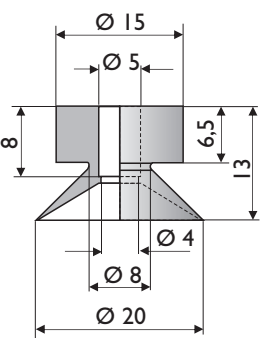
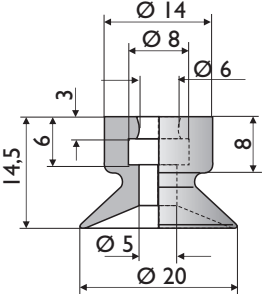
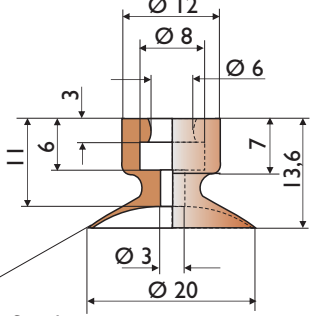
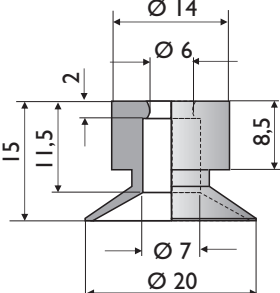
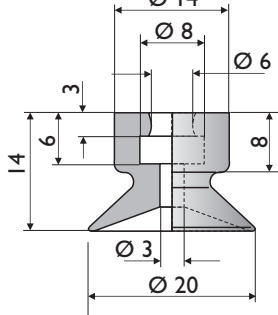
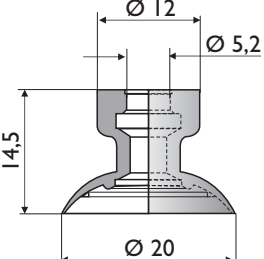
Art. No.: F0.020.004.*

Hub/*Stroke*: 3,5 mm
Gewicht/*Weight*: 2,0 g

*Material:
NR rot/*red* 40° Shore
NR schwarz/*black*

Anschlusssteile/*Fittings*
AT.0137 - AG M5
AT.0085 - AG 1/8"
AT.0086 - IG 1/8"



<p>Art. No.: F0.020.005.*./21 Hub/<i>Stroke</i>: 3,5 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0137 - AG M5 AT.0085 - AG 1/8" AT.0086 - IG 1/8"</p> 	<p>Art. No.: F0.020.006.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 2,1 g</p> <p>*Material: NR schwarz/<i>black</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0624 - AG M5</p> 
<p>Art. No.: F0.020.005.*./27 Hub/<i>Stroke</i>: 3,5 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore NR schwarz/<i>black</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0137 - AG M5 AT.0085 - AG 1/8" AT.0086 - IG 1/8"</p> 	<p>Art. No.: F0.020.008.* Hub/<i>Stroke</i>: 2,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: Vulkollan braun/<i>brown</i> 70° hochverschleißfest/ <i>high wear resistant</i> hochabdruckarm/ <i>high anti-marking</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0137 - AG M5 AT.0085 - AG 1/8" AT.0086 - IG 1/8"</p> <p>dünne Sauglippe <i>thin suction lip</i> 0,5 mm</p> 
<p>Art. No.: F0.020.009.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl transparent</p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0567-4 - AG 1/8"</p> 	<p>Art. No.: F0.020.013.* Hub/<i>Stroke</i>: 3,5 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore NR schwarz/<i>black</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0137 - AG M5 AT.0085 - AG 1/8" AT.0086 - IG 1/8"</p> 
<p>Art. No.: F0.020.016.* Hub/<i>Stroke</i>: 4,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR schwarz/<i>black</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0200 - AG M5</p> 	

Flachsauger - Druckindustrie Ø 20 - 21 mm

Flat Suction Cups - Printing Industry dia. 20 - 21 mm

Art. No.: F0.020.024.*

Hub/*Stroke*: 1,6 mm

Gewicht/*Weight*: 0,5 g

*Material:

NBR schwarz/*black* 60° Shore

Fluorsilikon rot/*red* 40° Shore

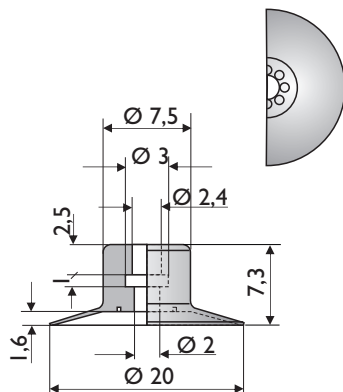
Vorteil: sehr dünne Sauglippe

Advantage: very thin suction lip

Anschlusssteile/*Fittings*

AT.0283 - AG M5

AT.0111 - AG M4



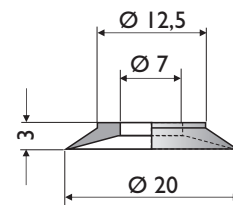
Art. No.: F0.020.026.*

Hub/*Stroke*: 1,0 mm

Gewicht/*Weight*: 0,1 g

*Material:

NBR schwarz/*black*



Art.No.: F0.020.028.*

Hub/*Stroke*: 2,0 mm

Gewicht/*Weight*: 1,5 g

*Material:

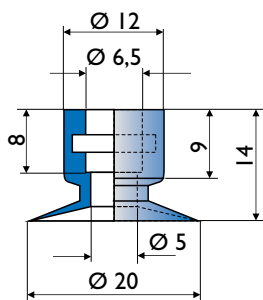
Vinyl blau/*blue*

Anschlusssteile/*Fittings*

AT.0702- AG M5

AT.0238 - AG 1/8"

AT.0109 - IG 1/8"



Art. No.: F0.020.030.*

Hub/*Stroke*: 1,2 mm

Gewicht/*Weight*: 0,7 g

*Material:

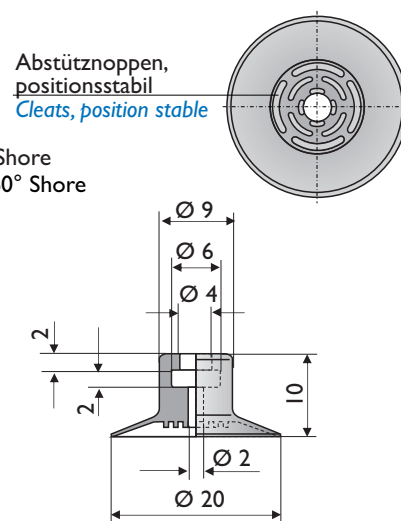
NBR schwarz/*black* 50° Shore

Silikon transparent 40°/60° Shore

Anschlusssteile/*Fittings*

AT.0283 - AG M5

AT.0111 - AG M4



Art. No.: F0.021.003.*

Hub/*Stroke*: 1,0 mm

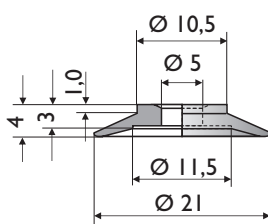
Gewicht/*Weight*: 0,6 g

*Material:

NR schwarz/*black*

Silikon transparent

PU blau/*blue*



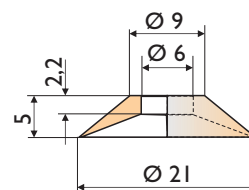
Art. No.: F0.021.004.*

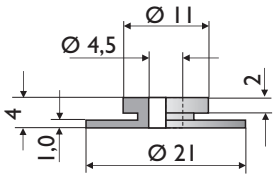
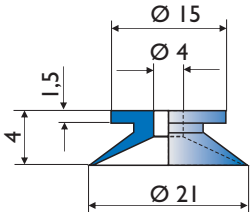
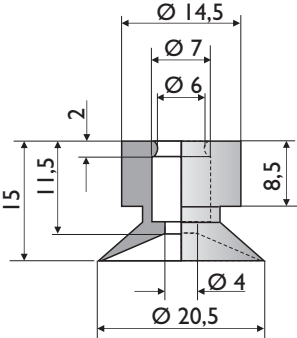
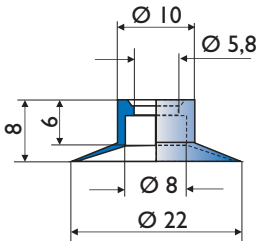
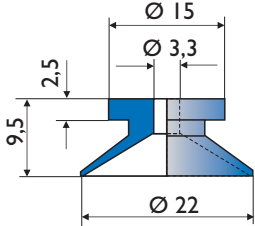
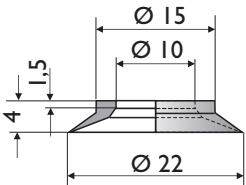
Hub/*Stroke*: 2,8 mm

Gewicht/*Weight*: 0,4 g

*Material:

NR beige 40° Shore



<p>Art. No.: F0.021.005.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,3 g</p> <p>*Material: NR grau/<i>grey</i> 40° Shore</p> 	<p>Art. No.: F0.021.006.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 0,6 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 
<p>Art. No.: F0.021.007.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i> 60° Shore Vinyl rot/<i>red</i> 50° Shore</p> 	
<p>Art. No.: F0.022.011.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 0,6 g</p> <p>*Material: NR blau/<i>blue</i> 40° Shore</p> 	<p>Art. No.: F0.022.012.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 
<p>Art. No.: 01 22 06.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 0,4 g</p> <p>*Material: NR schwarz/<i>black</i> Silikon transparent</p> 	

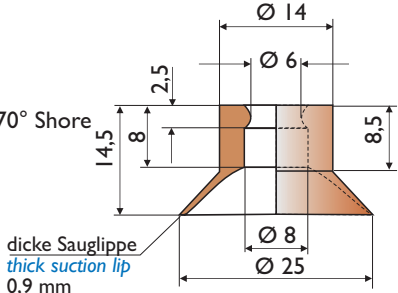
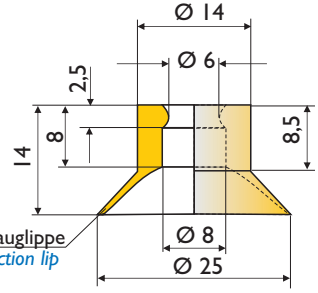
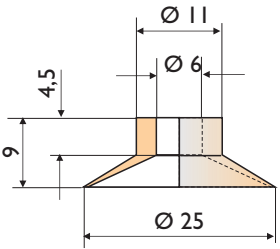
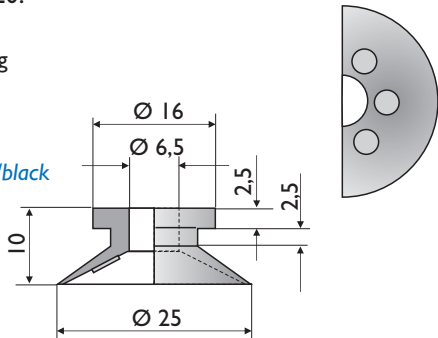
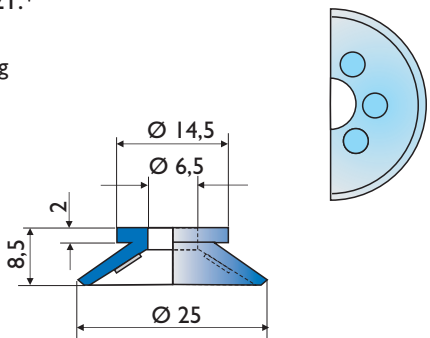
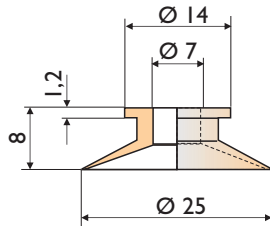
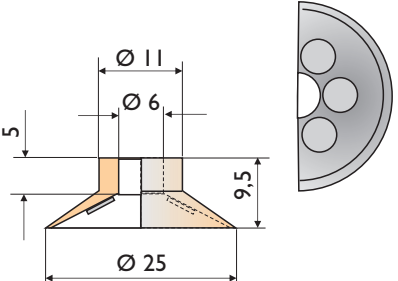
Flachsauger - Druckindustrie Ø 23 - 25 mm

Flat Suction Cups - Printing Industry dia. 23 - 25 mm

<p>Art. No.: F0.023.003.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,6 g</p> <p>* Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0567-4 - AG 1/8"</p>	<p>Art. No.: F0.023.004.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>* Material: Vinyl transparent</p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"/IG M5</p>
<p>Art. No.: F0.025.002.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 2,2 g</p> <p>*Material: NR hellgrün/<i>light green</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0567-4 - AG 1/8"</p>	<p>Art. No.: F0.025.004.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 2,2 g</p> <p>*Material: NR dunkelgrün/<i>dark green</i> 40° Shore NR schwarz/<i>black</i> 50° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0567-4 - AG 1/8"</p>
<p>Art. No.: F0.025.006.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,5 g</p> <p>*Material: Vulkollan braun/<i>brown</i> 70° Shore hochverschleissfest/ <i>high wear resistant</i> hochabdruckarm/ <i>high anti-marking</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0567 - AG 1/8"</p> <p>dünne Sauglippe/ <i>thin suction lip</i> 0,6 mm</p>	<p>Art. No.: F0.025.014.* Hub/<i>Stroke</i>: 3,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p>

Flachsauger - Druckindustrie Ø 25 mm

Flat Suction Cups - Printing Industry dia. 25 mm

<p>Art. No.: F0.025.017.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,6 g</p> <p>*Material: Vulkollan braun/<i>brown</i> 70° Shore hochverschleissfest/ <i>high wear resistant</i> hochabdruckarm/ <i>high anti-marking</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0567-4 - AG 1/8"</p>  <p>dicke Sauglippe <i>thick suction lip</i> 0,9 mm</p>	<p>Art. No.: F0.025.018.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,6 g</p> <p>*Material: Vinyl gelb/<i>yellow</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0567-4 - AG 1/8"</p>  <p>dicke Sauglippe <i>thick suction lip</i> 0,9 mm</p>
<p>Art. No.: F0.025.019.* Hub/<i>Stroke</i>: 2,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: F0.025.020.* Hub/<i>Stroke</i>: 2,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore Polyurethan schwarz/<i>black</i> 50° Shore</p> 
<p>Art. No.: F0.025.021.* Hub/<i>Stroke</i>: 2,5 mm Gewicht/<i>Weight</i>: 1,5 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 	<p>Art. No.: F0.025.022.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore</p> 
<p>Art. No.: F0.025.028.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore</p> 	

Flachsauger - Druckindustrie Ø 25 mm

Flat Suction Cups - Printing Industry dia. 25 mm

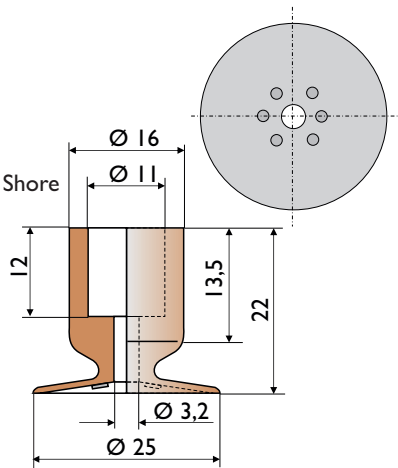
Art. No.: F0.025.007.*

Hub/*Stroke*: 3,0 mm
Gewicht/*Weight*: 2,0 g

*Material:
Vulkollan braun/*brown* 70° Shore
hochverschleissfest/
high wear resistant
hochabdruckarm/
high anti-marking

Auf Anfrage/*on request*:
Silikon transparent

Anschlusssteile/*Fittings*
AT.0723 - AG 1/8
AT.0603 - AG 1/4"

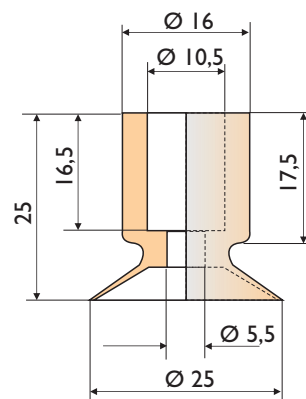


Art. No.: F0.025.012.*

Hub/*Stroke*: 4,0 mm
Gewicht/*Weight*: 3,0 g

*Material:
NR beige 40° Shore

Anschlusssteile/*Fittings*
AT.0723 - AG 1/8"
AT.0603 - AG 1/4"

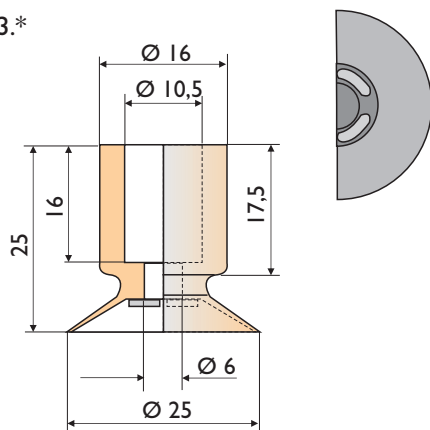


Art. No.: F0.025.023.*

Hub/*Stroke*: 2,0 mm
Gewicht/*Weight*: 3,2 g

*Material:
NR beige 40° Shore

Anschlusssteile/*Fittings*
AT.0723 - AG 1/8"
AT.0603 - AG 1/4"

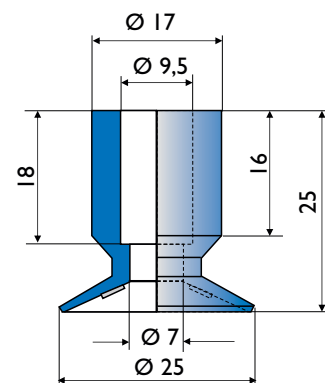


Art. No.: F0.025.026.*

Hub/*Stroke*: 3,0 mm
Gewicht/*Weight*: 4,0 g

*Material:
Vinyl blau/*blue*

Anschlusssteile/*Fittings*
AT.0723 - AG 1/8"
AT.0603 - AG 1/4"

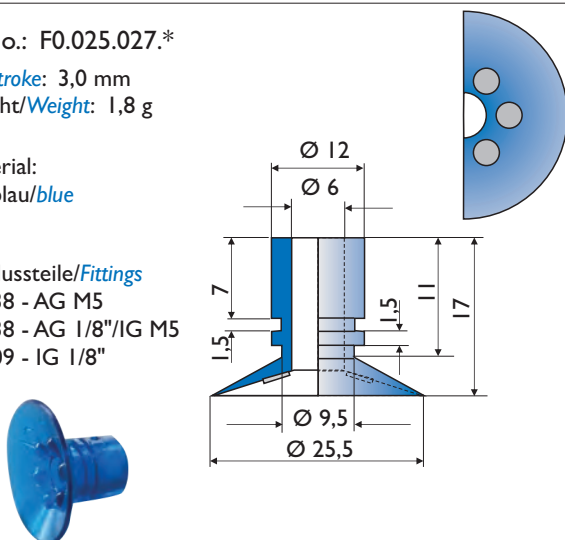


Art.No.: F0.025.027.*

Hub/*Stroke*: 3,0 mm
Gewicht/*Weight*: 1,8 g

*Material:
Vinyl blau/*blue*

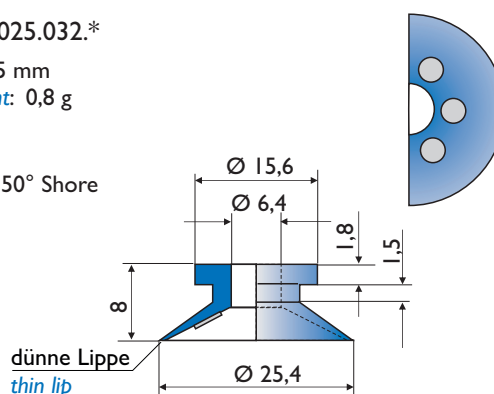
Anschlusssteile/*Fittings*
AT.0538 - AG M5
AT.0238 - AG 1/8"/IG M5
AT.0109 - IG 1/8"



Art. No.: F0.025.032.*

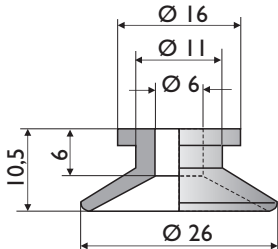
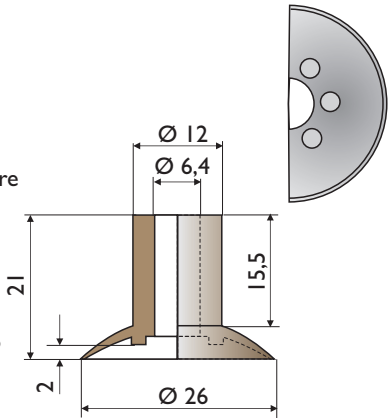
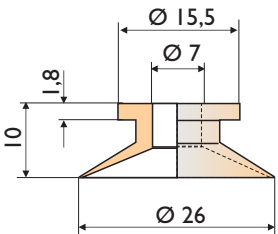
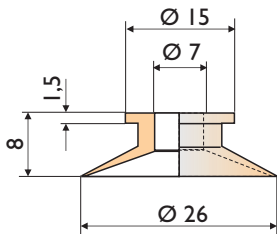
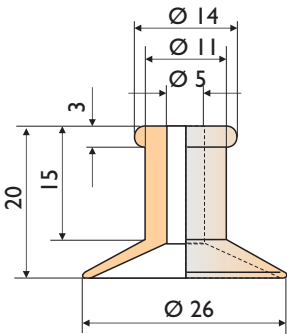
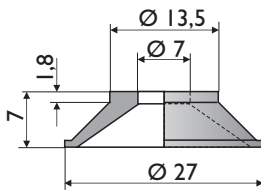
Hub/*Stroke*: 3,5 mm
Gewicht/*Weight*: 0,8 g

*Material:
Vinyl blau/*blue* 50° Shore



Flachsauger - Druckindustrie Ø 26 - 27 mm

Flat Suction Cups - Printing Industry dia. 26 - 27 mm

<p>Art. No.: F0.026.003.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,4 g</p> <p>*Material: Vinyl blau/<i>blue</i> 50° Shore NR beige 40° Shore Silikon transparent 50° Shore</p> 	<p>Art. No.: F0.026.004.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 2,5 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"/IG M5</p> 
<p>Art. No.: F0.026.006.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: F0.026.007.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR beige 40° Shore</p> 
<p>Art. No.: F0.026.008.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR beige 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0537 - AG M5 AT.0539 - AG 1/8"</p> 	<p>Art. No.: F0.027.001.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,3 g</p> <p>*Material: NBR schwarz/<i>black</i> FKM schwarz/<i>black</i> Silikon transparent</p> 

Flachsauger - Druckindustrie Ø 27 mm

Flat Suction Cups - Printing Industry dia. 27 mm

Art. No.: F0.027.003.*

Hub/*Stroke*: 2,0 mm

Gewicht/*Weight*: 1,6 g

*Material:

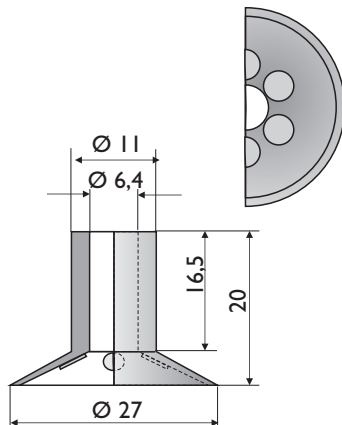
NR beige 40° Shore

Vinyl transparent

Anschlusssteile/*Fittings*

AT.0702 - AG M5

AT.0238 - AG 1/8"/IG M5



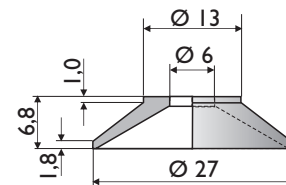
Art. No.: F0.027.004.*

Hub/*Stroke*: 3,0 mm

Gewicht/*Weight*: 1,1 g

*Material:

NR grau/grey 40° Shore



Art. No.: F0.027.005.*

Hub/*Stroke*: 3,0 mm

Gewicht/*Weight*: 2,0 g

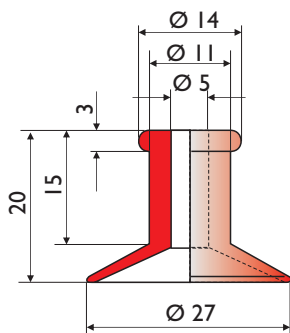
*Material:

Silikon rot/red

Anschlusssteile/*Fittings*

AT.0537 - AG M5

AT.0539 - AG 1/8"



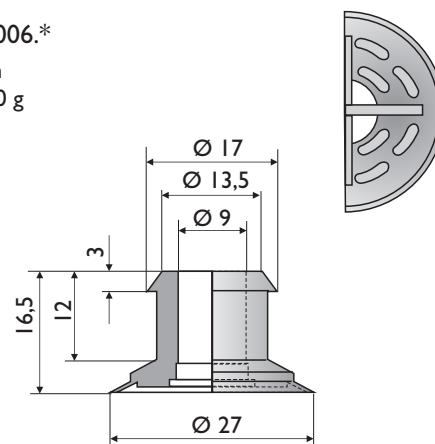
Art. No.: F0.027.006.*

Hub/*Stroke*: 0,5 mm

Gewicht/*Weight*: 2,0 g

*Material:

Silikon transparent



Art. No.: F0.027.009.*

Hub/*Stroke*: 2,0 mm

Gewicht/*Weight*: 2,2 g

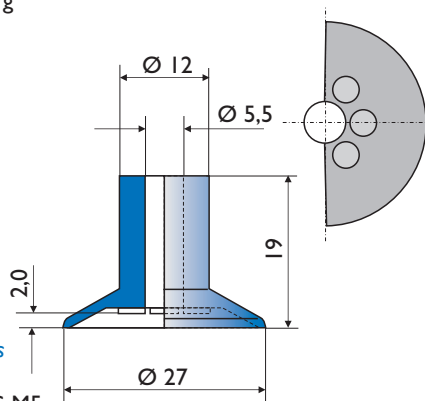
*Material:

Vinyl blau/blue

Anschlusssteile/*Fittings*

AT.0702 - AG M5

AT.0238 - AG 1/8"/IG M5



Art. No.: 01 27 24.*

Hub/*Stroke*: 2,4 mm

Gewicht/*Weight*: 2,8 g

*Material:

NR schwarz/black

NBR schwarz/black

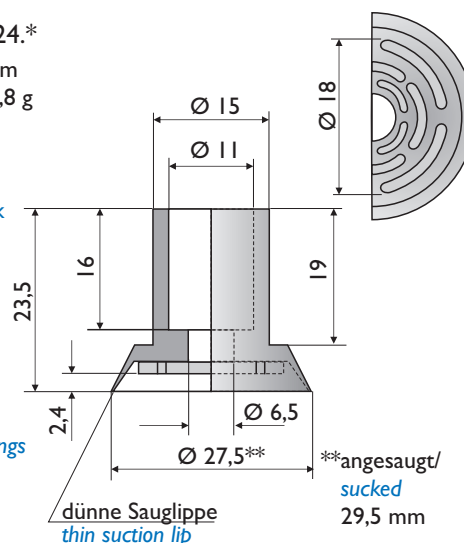
Silikon transparent

Anschlusssteile/*Fittings*

AT.0723 - AG 1/8"

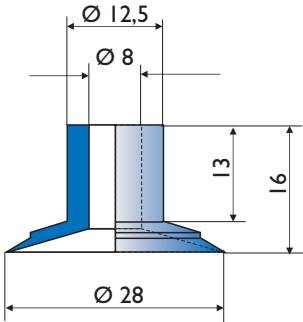
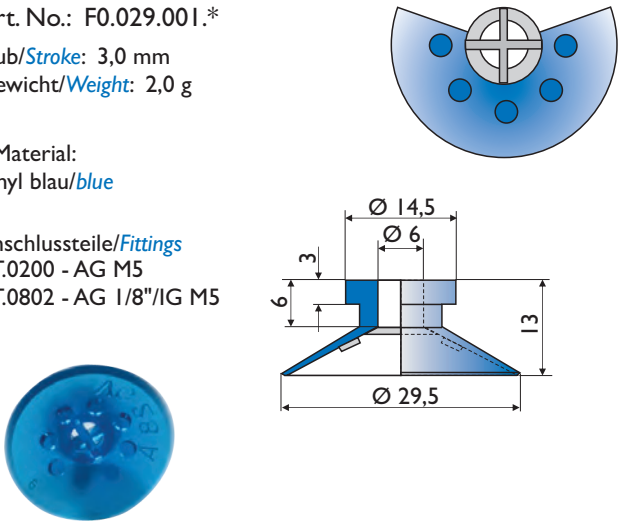
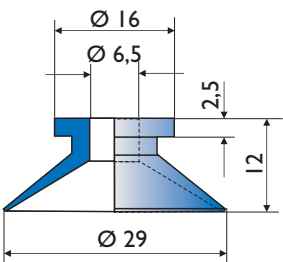
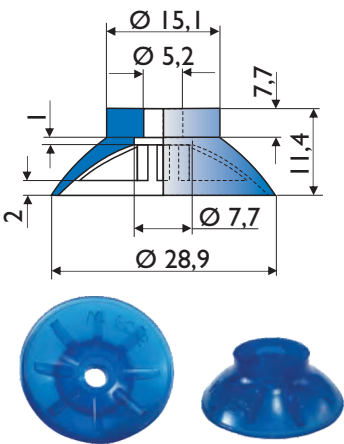
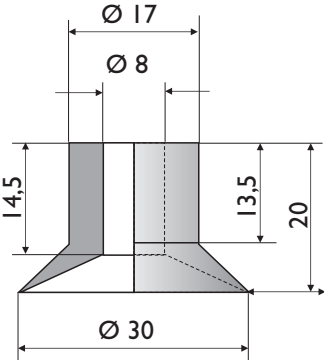
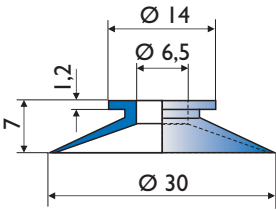
AT.0603 - AG 1/4"

00 08 21 - IG 1/4"



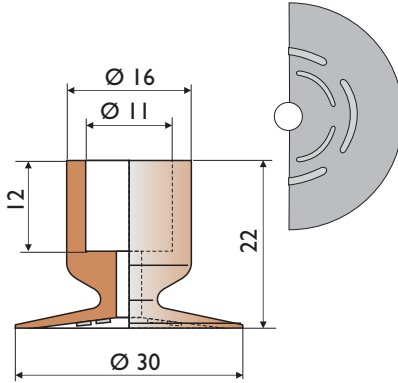
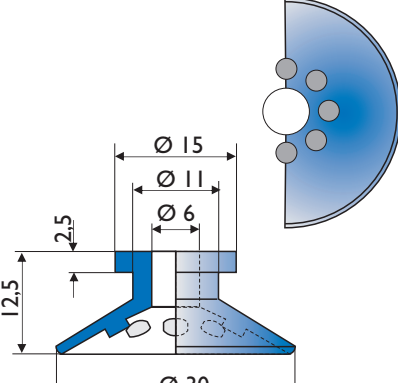
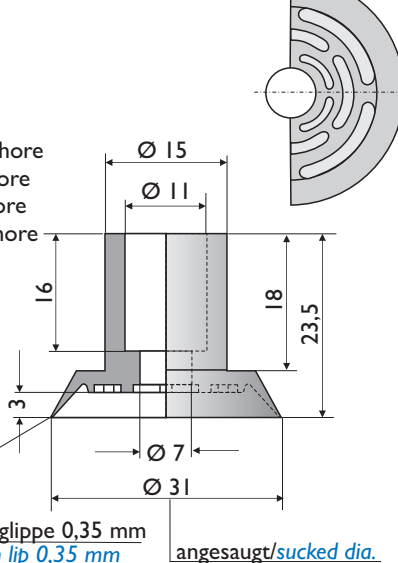
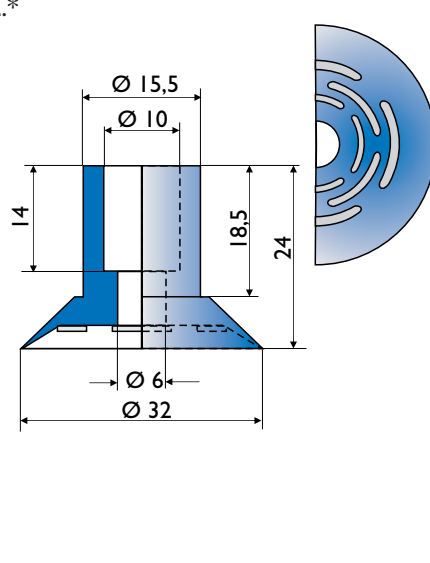
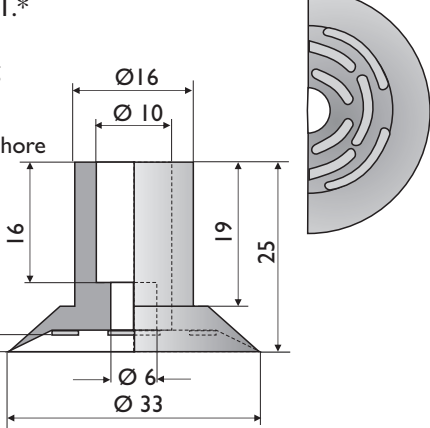
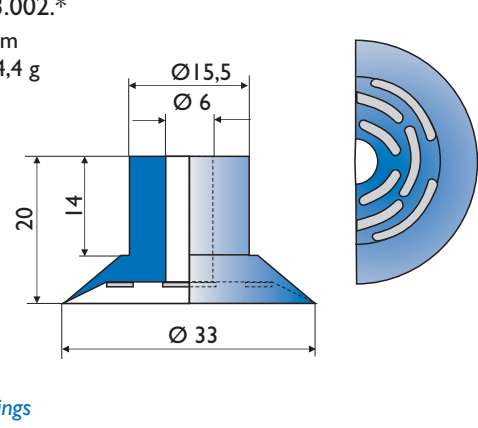
Flachsauger - Druckindustrie Ø 28 - 30 mm

Flat Suction Cups - Printing Industry dia. 28 - 30 mm

<p>Art. No.: F0.028.006.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0538 - AG 1/8"</p> 	<p>Art. No.: F0.029.001.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0802 - AG 1/8"/IG M5</p> 
<p>Art. No.: F0.029.004.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0802 - AG 1/8"/IG M5 AT.0702 - AG M5</p> 	<p>Art. No.: F0.029.006.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i> 50° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0802 - AG 1/8"/IG M5 AT.0809 - IG 1/8" AT.0094 - AG M5</p> 
<p>Art. No.: F0.030.001.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 4,5 g</p> <p>*Material: NBR schwarz/<i>black</i> Silikon transparent NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0132 - AG 1/8"</p> 	<p>Art. No.: F0.030.014.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> 

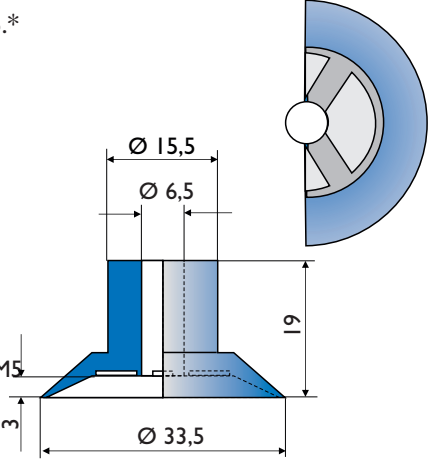
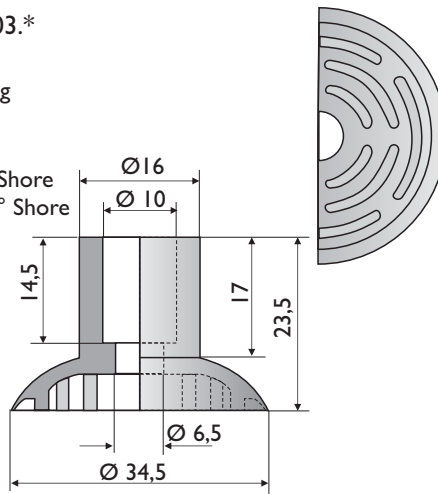
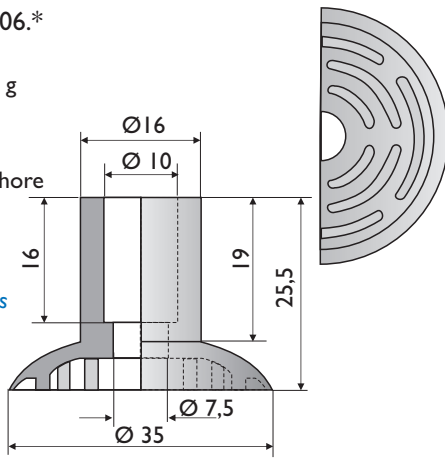
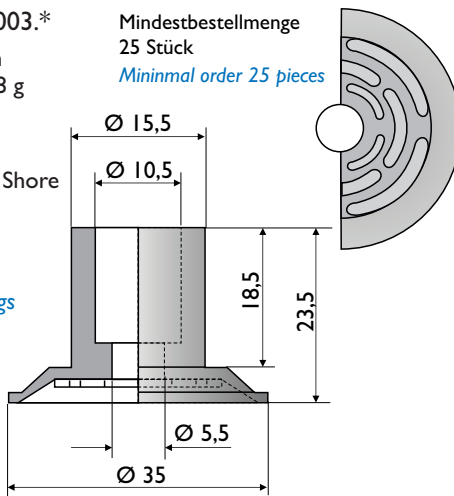
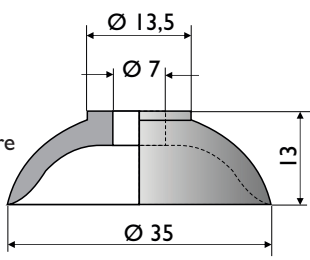
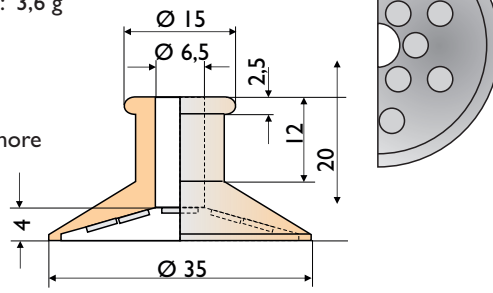
Flachsauger - Druckindustrie Ø 30 - 33 mm

Flat Suction Cups - Printing Industry dia. 30 - 33 mm

<p>Art. No.: F0.030.015.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 3,7 g</p> <p>* Material: Vulkollan braun/<i>brown</i> 70° Shore hochverschleissfest/ <i>high wear resistant</i> hochabdruckarm/ <i>high anti-marking</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 	<p>Art. No.: F0.030.017.* Hub/<i>Stroke</i>: 2,5 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"/IG M5</p> 
<p>Art. No.: 01 30 24.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 3,0 g</p> <p>*Material: NBR schwarz/<i>black</i> 60° Shore NR schwarz/<i>black</i> 45° Shore Silikon weiß/<i>white</i> 45° Shore Silikon transparent 45° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0227 - AG M5 AT.0723 - AG 1/8" AT.0603 - AG 1/4" 00 08 21 - IG 1/4"</p> <p>dünne Sauglippe 0,35 mm <i>thin suction lip 0,35 mm</i></p> <p>angesaugt/<i>sucked dia.</i> Ø 32,5 mm</p> 	<p>Art. No.: F0.032.002.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 4,3 g</p> <p>* Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 
<p>Art. No.: F0.033.001.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 4,4 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore CR rot/<i>red</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 	<p>Art. No.: F0.033.002.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 4,4 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"/IG M5</p> 

Flachsauger - Druckindustrie Ø 33 - 35 mm

Flat Suction Cups - Printing Industry dia. 33 - 35 mm

<p>Art. No.: F0.033.005.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 3,8 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"/IG M5</p> 	<p>Art. No.: F0.034.003.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 5,0 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore NR schwarz/<i>black</i> 50° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 
<p>Art. No.: F0.035.006.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 6,0 g</p> <p>*Material: NR gelb/<i>yellow</i> 40° Shore PU braun/<i>brown</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 	<p>Art. No.: F0.035.003.* Hub/<i>Stroke</i>: 1,5 mm Gewicht/<i>Weight</i>: 5,8 g</p> <p>Mindestbestellmenge 25 Stück <i>Minimal order 25 pieces</i></p> <p>*Material: NR weiss/<i>white</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0723 - AG 1/8" AT.0603 - AG 1/4"</p> 
<p>Art. No.: F0.035.004.* Hub/<i>Stroke</i>: 5,0 mm Gewicht/<i>Weight</i>: 3,2 g</p> <p>*Material: NR schwarz/<i>black</i> NR braun/<i>brown</i> 40° Shore</p> 	<p>Art. No.: F0.035.005.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 3,6 g</p> <p>*Material: NR beige 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"/IG M5</p> 

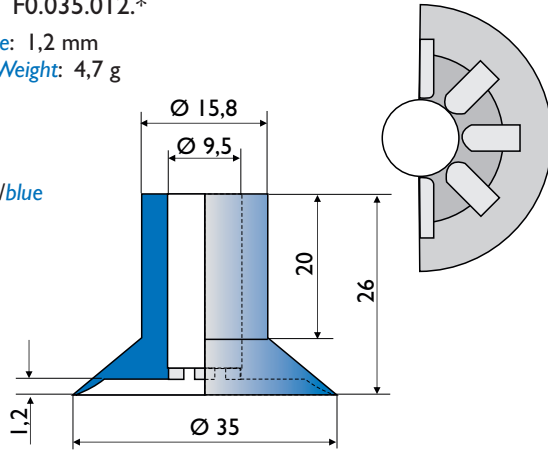
Flachsauger - Druckindustrie Ø 35 - 40 mm

Flat Suction Cups - Printing Industry dia. 35 - 40 mm

Art. No.: F0.035.012.*

Hub/*Stroke*: 1,2 mm
Gewicht/*Weight*: 4,7 g

*Material:
Vinyl blau/*blue*

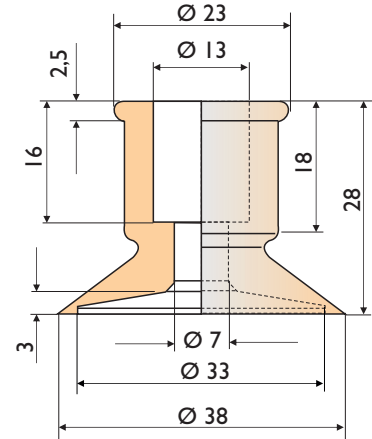


Art. No.: F0.038.004.*

Hub/*Stroke*: 3,0 mm
Gewicht/*Weight*: 8,0 g

* Material:
NR beige 40° Shore

Anschlusssteil/*Fitting*
AT.0824 - AG 1/4"

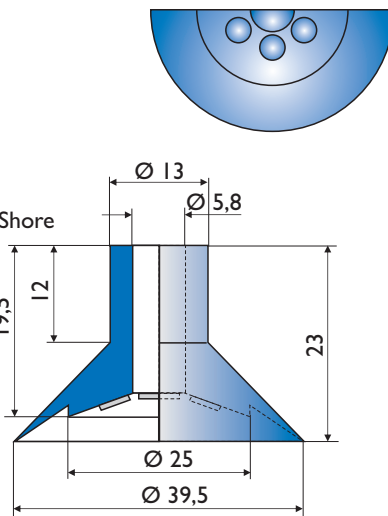


Art. No.: F0.039.005.*

Hub/*Stroke*: 3,5 mm
Gewicht/*Weight*: 4,2 g

* Material:
Vinyl blau/*blue* 50° Shore
Polyurethan blau/*blue* 50° Shore

Anschlusssteile/*Fittings*
AT.0702 - AG M5
AT.0238 - AG 1/8"/IG M5

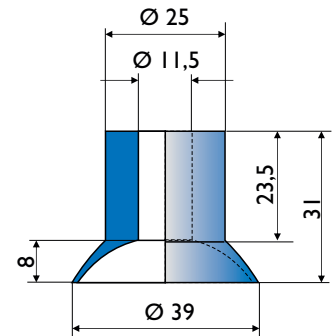


Art. No.: F0.039.006.*

Hub/*Stroke*: 5,0 mm
Gewicht/*Weight*: 12 g

* Material:
Vinyl blau/*blue*

Anschlusssteil/*Fitting*
AT.0049 - AG 1/4"

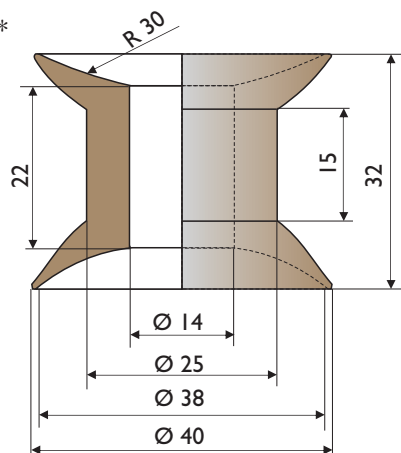


Art. No.: F0.040.005.*

Hub/*Stroke*: 5,0 mm
Gewicht/*Weight*: 14 g

*Material:
NR braun/*brown*
38° Shore

mit Wendemöglichkeit
with turn possibility

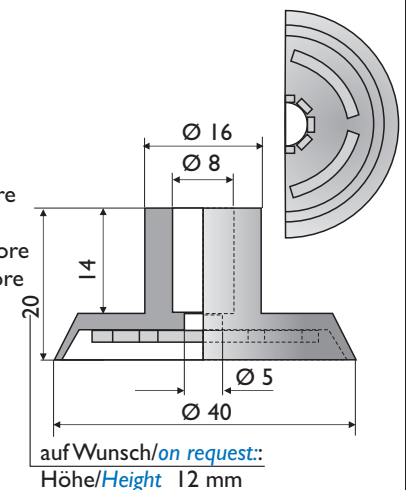


Art. No.: F0.040.003.*

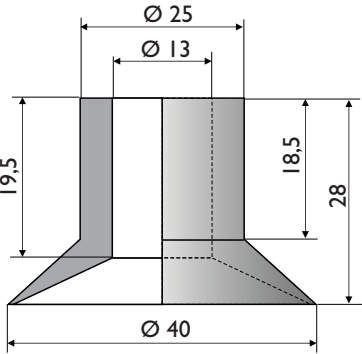
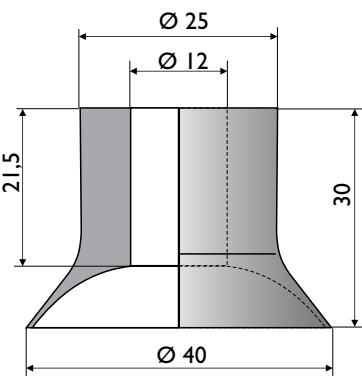
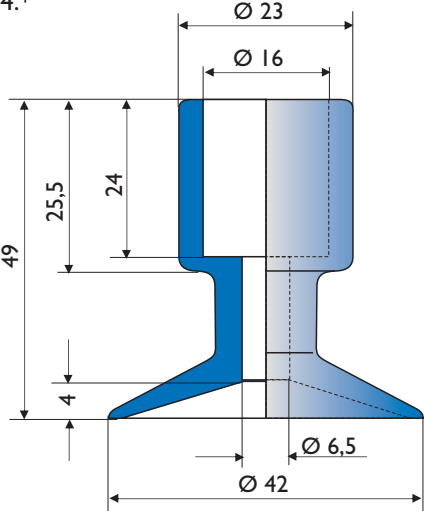
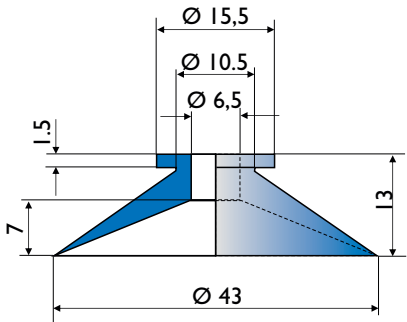
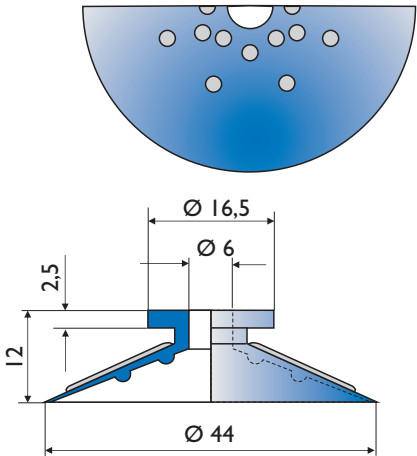
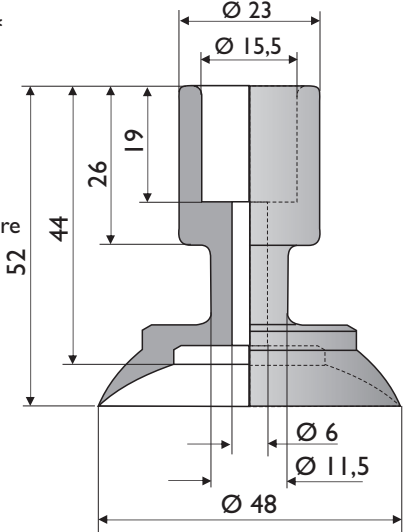
Hub/*Stroke*: 2,0 mm
Gewicht/*Weight*: 4,8 g

* Material:
NR schwarz/*black* 50° Shore
NR braun/*brown* 40° Shore
NBR schwarz/*black* 50° Shore
Silikon transparent 50° Shore

Anschlusssteil/*Fitting*
AT.0538 - AG 1/8"



auf Wunsch/*on request*:
Höhe/*Height* 12 mm

<p>Art. No.: F0.040.008.* Hub/<i>Stroke</i>: 5,0 mm Gewicht/<i>Weight</i>: 7,5 g</p> <p>*Material: Silikon transparent NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0049 - AG 1/4"</p> 	<p>Art. No.: F0.040.017.* Hub/<i>Stroke</i>: 5,0 mm Gewicht/<i>Weight</i>: 12 g</p> <p>*Material: NBR schwarz/<i>black</i> Silikon transparent NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0049 - AG 1/4"</p> 
<p>Art. No.: F0.042.004.* Hub/<i>Stroke</i>: 4,0 mm Gewicht/<i>Weight</i>: 15 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteil/<i>Fitting</i> 00 08 09 - AG 1/4"</p> 	<p>Art. No.: F0.043.002.* Hub/<i>Stroke</i>: 5,0 mm Gewicht/<i>Weight</i>: 3,6 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0702 - AG M5</p> 
<p>Art. No.: F0.044.003.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 4,8 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0702 - AG M5</p> 	<p>Art. No.: F0.048.001.* Hub/<i>Stroke</i>: 8,0 mm Gewicht/<i>Weight</i>: 19 g</p> <p>*Material: NBR schwarz/<i>black</i> NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> 00 08 09 - AG 1/4"</p> 

Flachsauger - Druckindustrie Ø 52 - 65 mm

Flat Suction Cups - Printing Industry dia. 52 - 65 mm

Art. No.: F0.052.001.*

Hub/*Stroke*: 6,0 mm

Gewicht/*Weight*: 15 g

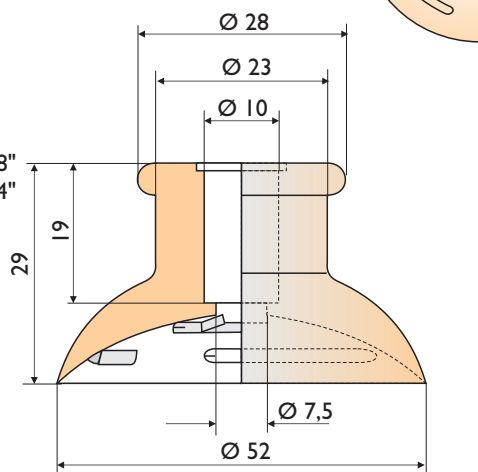
*Material:

NR beige 40° Shore

Anschlusssteile/
Fittings

AT.0723 - AG 1/8"

AT.0603 - AG 1/4"



Art. No.: F0.063.001.*

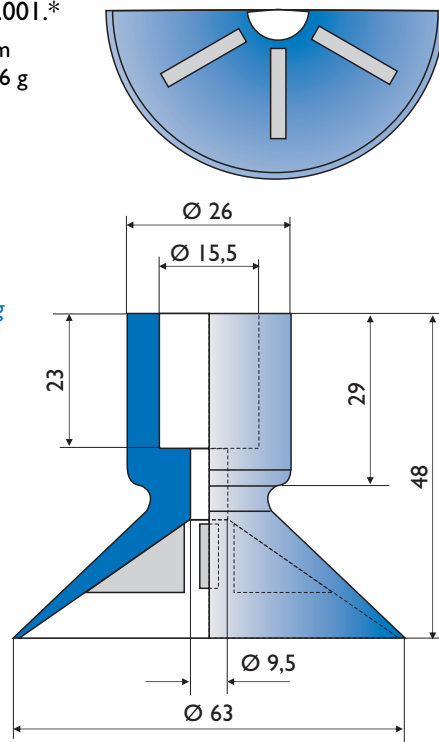
Hub/*Stroke*: 3,0 mm

Gewicht/*Weight*: 26 g

*Material:

Vinyl blau/*blue*

Anschlusssteil/*Fitting*
00 08 09 - AG 1/4"



Art. No.: F0.064.002.*

Hub/*Stroke*: 4,5 mm

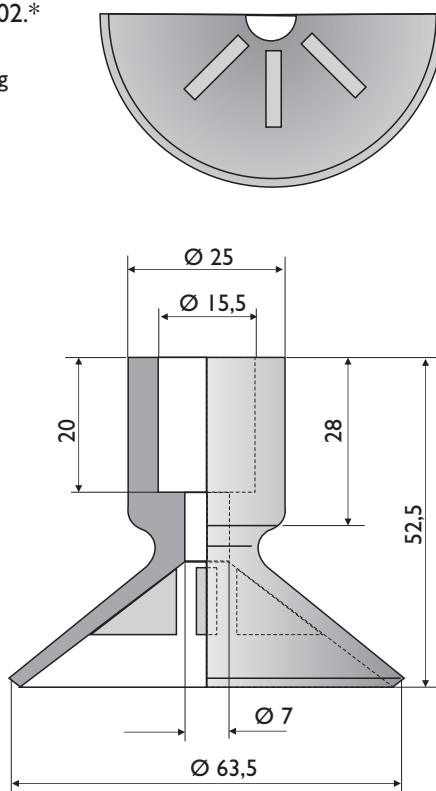
Gewicht/*Weight*: 42 g

*Material:

NR beige 40° Shore

CR rot/*red*

Anschlusssteil/*Fitting*
00 08 09 - AG 1/4"



Art. No.: F0.065.004.*

Hub/*Stroke*: 4,0 mm

Gewicht/*Weight*: 17 g

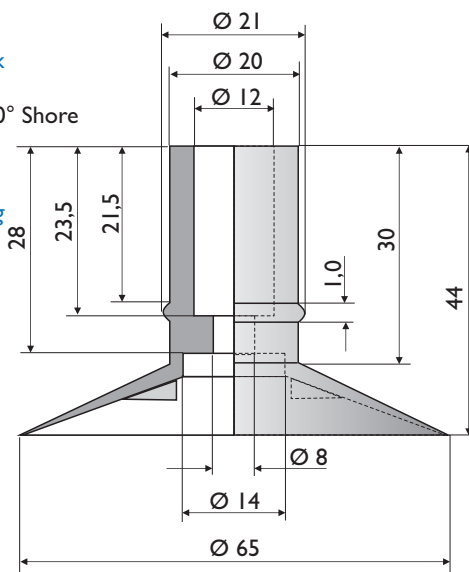
*Material:

NBR schwarz/*black*

Silikon transparent

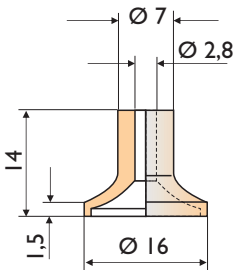
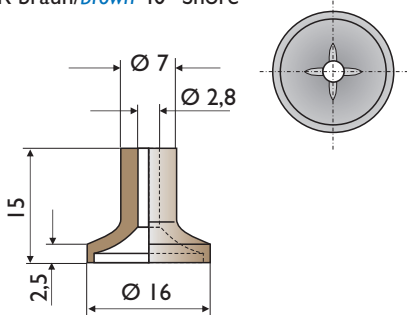
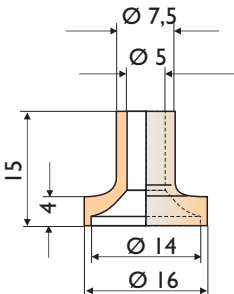
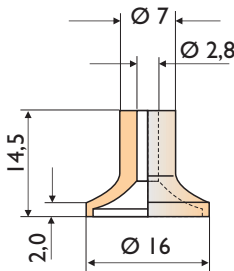
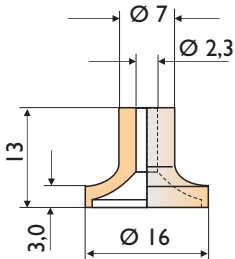
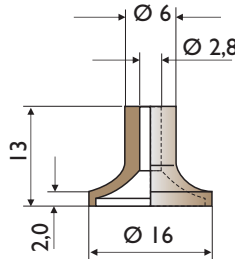
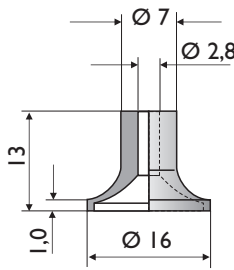
NR braun/*brown* 40° Shore

Anschlusssteil/*Fitting*
AT.0049 - AG 1/4"



Vakuumsauger - Druckindustrie „Serie A“ Ø 16 mm

Vacuum Suction Cups - Printing Industry „Series A“ dia. 16 mm

<p>Art. No.: DRA.016.001.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,7 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: DRA.016.002.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,7 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> 	<p>Art. No.: DRA.016.003.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,9 g</p> <p>*Material: NR beige 40° Shore</p> 
<p>Art. No.: DRA.016.007.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,7 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: DRA.016.008.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,7 g</p> <p>*Material: NR beige 40° Shore</p> 	<p>Art. No.: DRA.016.009.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,7 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> 
<p>Art. No.: DRA.016.010.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 0,7 g</p> <p>*Material: Silikon transparent 50° Shore</p> 		

Vakuumsauger - Druckindustrie „Serie A“ Ø 17 - 23 mm

Vacuum Suction Cups - Printing Industry „Series A“ dia. 17 - 23 mm

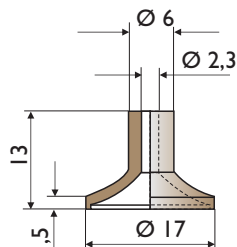
Art. No.: DRA.017.001.*

*Material:
 NR beige 40° Shore

Art. No.: DRA.017.006.*

*Material:
 NR braun/*brown* 40° Shore

Hub/*Stroke*: 0,0 mm
 Gewicht/*Weight*: 0,7 g



Art. No.: DRA.017.002.*

*Material:
 NR beige 40° Shore

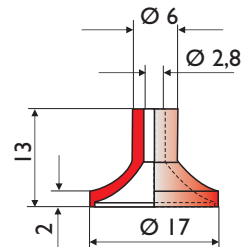
Art. No.: DRA.017.003.*

*Material:
 NR rot/*red* 45° Shore

Art.No.: DRA.017.004.*

*Material:
 NR blau/*blue* 50° Shore

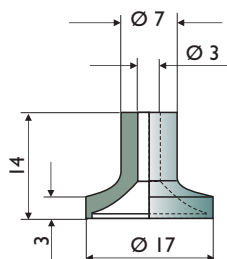
Hub/*Stroke*: 0,0 mm
 Gewicht/*Weight*: 0,8 g



Art. No.: DRA.017.005.*

Hub/*Stroke*: 0,0 mm
 Gewicht/*Weight*: 0,8 g

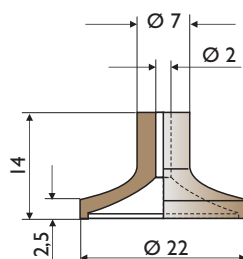
*Material:
 NR olivgrün/*olive green* 40° Shore



Art. No.: DRA.022.001.*

Hub/*Stroke*: 0,0 mm
 Gewicht/*Weight*: 1,2 g

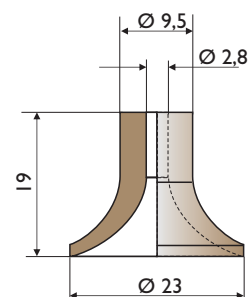
*Material:
 NR braun/*brown* 40° Shore



Art. No.: DRA.023.001.*

Hub/*Stroke*: 0,0 mm
 Gewicht/*Weight*: 1,2 g

*Material:
 NR braun/*brown* 40° Shore



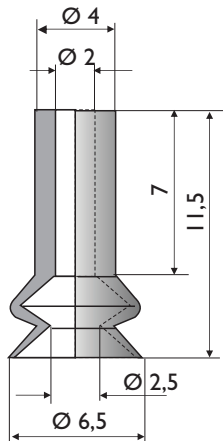
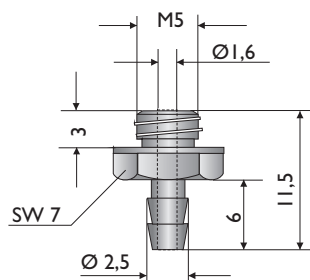
Art. No.: B10.006.003.*

Hub/*Stroke*: 1,5 mm

Gewicht/*Weight*: 0,2 g

Anschlusssteil/*Fitting*

AT.0701 - AG M5



*Material:

- Vinyl blau/*blue* 50° (Standard)/30° Shore (0° - +60° C)
- Vinyl schwarz/*black* ölbeständig/*oil resistant* 60° Shore (0° - +60° C)
- Silikon 40°/45° Shore (-45° - +210° C)
- Silikon FDA 40°/60° Shore (-45° - +210° C)
- Silikon Hochtemperatur/*high temperature* 60° Shore (+230° C)
- PU 35°/40°/50°/60°/80° Shore (0° - +70° C)

Art. No.: 01 11 50.*

Hub/*Stroke*: 5,0 mm

Gewicht/*Weight*: 1,0 g

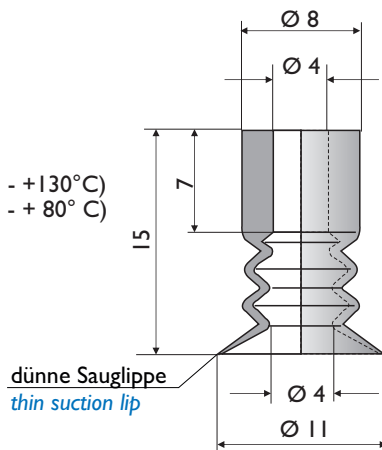
*Material:

- NBR schwarz/*black* (-40° - +130° C)
- NR schwarz/*black* (-70° - +80° C)
- Silikon (-50° - +300° C)

Anschlusssteile/*Fittings*

00 08 06 - AG M5

AT.0705 - IG M5



Art. No.: B10.013.003.*

Hub/*Stroke*: 5,0 mm

Gewicht/*Weight*: 0,6 g

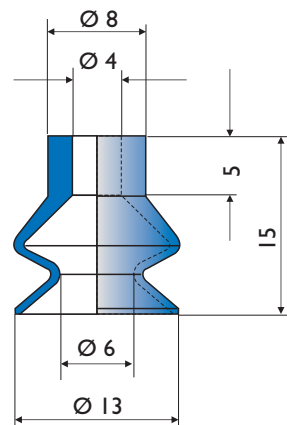
*Material:

Vinyl blau/*blue*

Anschlusssteile/*Fittings*

AT.0134 - AG M5

AT.0705 - IG M5



Art. No.: B10.013.005.*

Hub/*Stroke*: 5,0 mm

Gewicht/*Weight*: 0,6 g

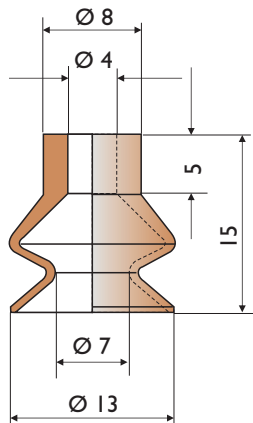
*Material:

Vulkollan braun/*brown* 70° Shore
 hochverschleissfest/*high wear resistant*

Anschlusssteile/*Fittings*

AT.0134 - AG M5

AT.0705 - IG M5



Art. No.: B10.013.006.*

Hub/*Stroke*: 5,0 mm

Gewicht/*Weight*: 0,6 g

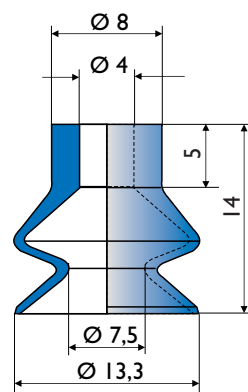
*Material:

Vinyl blau/*blue*

Anschlusssteile/*Fittings*

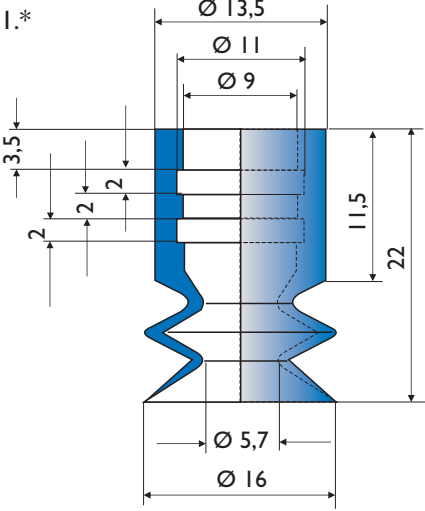
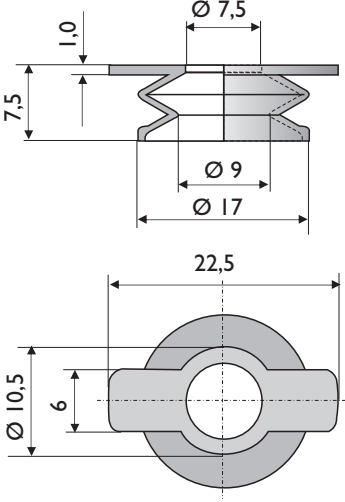
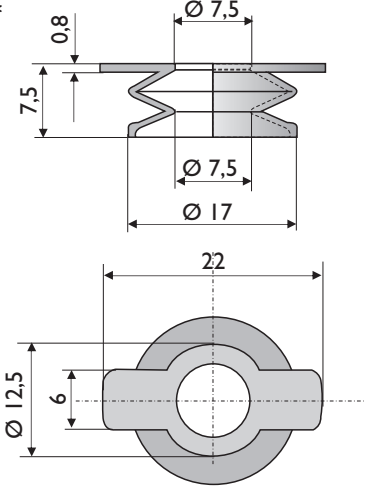
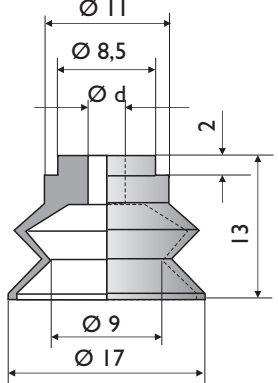
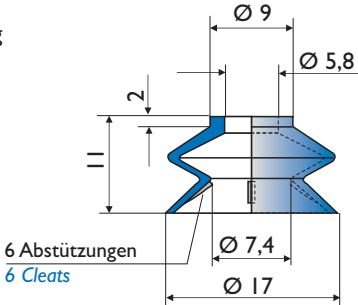
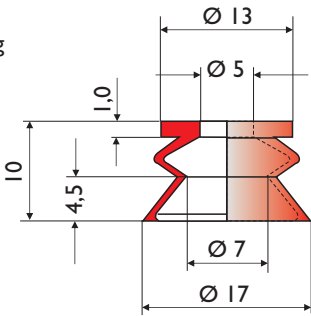
AT.0134 - AG M5

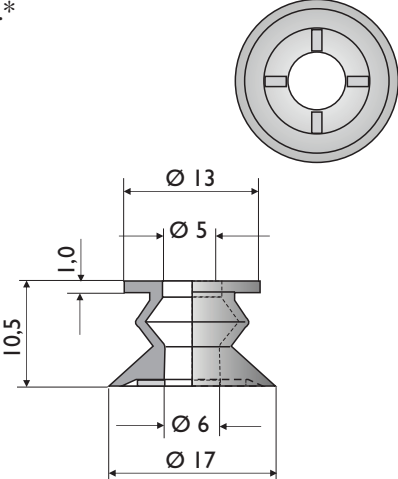
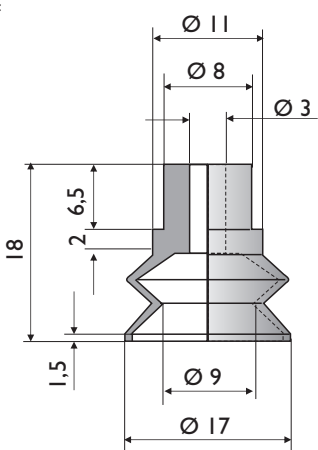
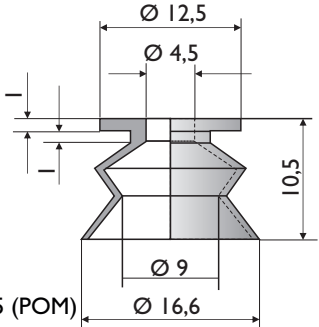
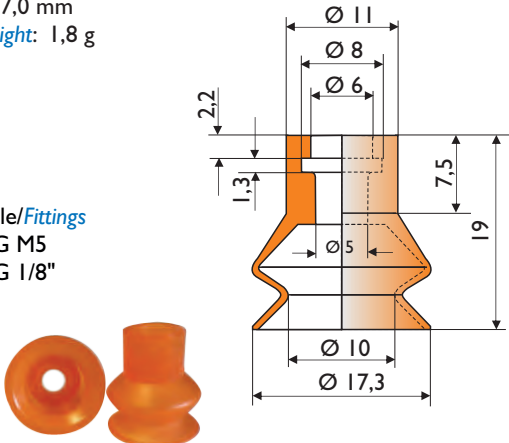
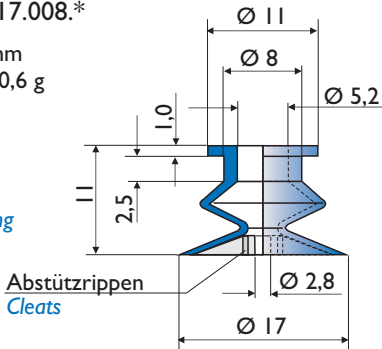
AT.0705 - IG M5



Balgensauger - Druckindustrie Ø 16 - 17 mm

Bellows Suction Cups - Printing Industry dia. 16 - 17 mm

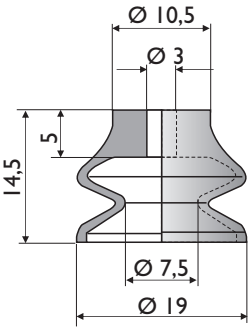
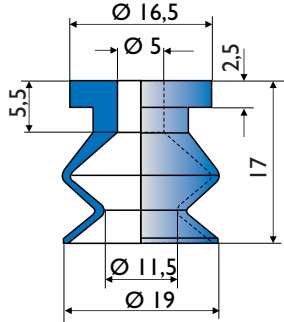
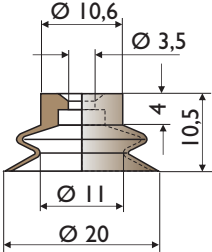
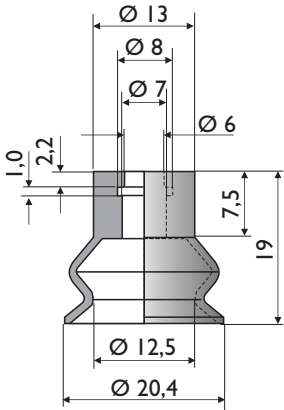
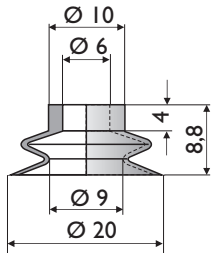
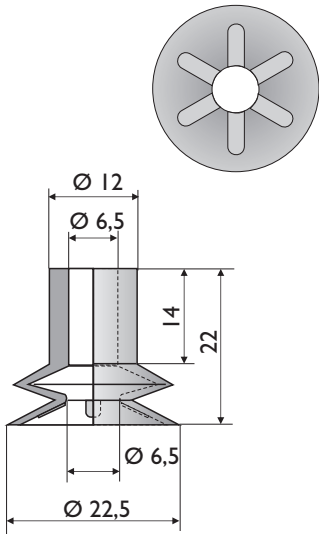
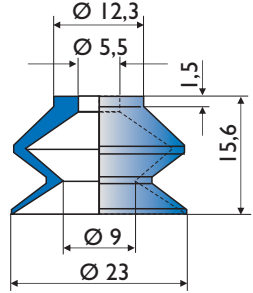
<p>Art. No.: B10.016.011.* Hub/Stroke: 6,0 mm Gewicht/Weight: 2,0 g</p> <p>*Material: Vinyl blau/blue</p> <p>Anschlusssteil/Fitting AT.0713 - AG M5</p> 	<p>Art. No.: B10.017.002.* Hub/Stroke: 5,0 mm Gewicht/Weight: 1,0 g</p> <p>*Material: NR schwarz/black</p> 
<p>Art. No.: B10.017.003.* Hub/Stroke: 5,0 mm Gewicht/Weight: 1,0 g</p> <p>*Material: NR schwarz/black</p> 	<p>Art. No.: B10.017.001.*D3: Ø d = 3 mm Art. No.: B10.017.001.*D6: Ø d = 6 mm Hub/Stroke: 6,0 mm Gewicht/Weight: 1,3 g</p> <p>*Material: NR schwarz/black</p> <p>Anschlusssteile/Fittings AT.0134 - AG M5 : Ø d=3 mm AT.0536 - AG M5 : Ø d=6 mm</p> 
<p>Art. No.: B10.017.004.* Hub/Stroke: 4,5 mm Gewicht/Weight: 0,6 g</p> <p>*Material: Vinyl blau/blue</p> <p>Anschlusssteil/Fitting AT.0536 - AG M5</p> <p>6 Abstützungen 6 Cleats</p> 	<p>Art. No.: B10.017.005.* Hub/Stroke: 6,0 mm Gewicht/Weight: 1,2 g</p> <p>*Material: NR rot/red</p> <p>Anschlusssteil/Fitting AT.0536 - AG M5</p> 

<p>Art. No.: B10.017.006.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR rot/<i>red</i> NR schwarz/<i>black</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0536 - AG M5</p> 	<p>Art. No.: B10.017.007.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 1,3 g</p> <p>*Material: NR schwarz/<i>black</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0022 - AG M5</p> 
<p>Art. No.: B10.017.009.* Hub/<i>Stroke</i>: 6,0 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: Silikon transparent</p> <p>Anschlusssteile/<i>Fittings</i> AT.0536 - AG M5 AT.0005 - IG M5 AT.0189 - AG R1/8" (POM) AT.0188 - AG R1/8" - IG M5 (POM) AT.0096 - IG 1/8"</p> 	<p>Art. No.: B10.017.010.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 1,8 g</p> <p>*Material: Vinyl orange</p> <p>Anschlusssteile/<i>Fittings</i> AT.0094 - AG M5 AT.0238 - AG 1/8"</p> 
<p>Art. No.: B10.017.008.* Hub/<i>Stroke</i>: 3,5 mm Gewicht/<i>Weight</i>: 0,6 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteil/<i>Fitting</i> AT.0536 - M5 AG</p> <p>Abstützrippen <i>Cleats</i></p> 	

Balgensauger - Druckindustrie Ø 18 - 19 mm

Bellows Suction Cups - Printing Industry dia. 18 - 19 mm

<p>Art. No.: B10.018.004.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 0,8 g</p> <p>*Material: NR schwarz/<i>black</i> 50° Shore NR blau/<i>blue</i> 40° Shore Silikon transparent 50° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0200 - AG M5</p>	<p>Art. No.: B10.018.005.* Hub/<i>Stroke</i>: 5,5 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0536 - AG M5</p>
<p>Art. No.: B10.018.001.* Hub/<i>Stroke</i>: 6,0 mm Gewicht/<i>Weight</i>: 0,6 g</p> <p>*Material: NR blau/<i>blue</i> 40° Shore Silikon transparent 20°/30°/50°/60° Shore CR schwarz/<i>black</i> 50° Shore NBR schwarz/<i>black</i> 60° Shore</p> <p>Auf Anfrage/<i>on request</i>: NBR 40° Silikon rot/<i>red</i> 40° Shore Silikon antistatisch/<i>antistatic</i> 50° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0077 - AG 1/8" AT.0717 - AG 1/8" + IG M5</p>	<p>Art. No.: B10.018.011.* Hub/<i>Stroke</i>: 3,0 mm Gewicht/<i>Weight</i>: 1,8 g</p> <p>*Material; NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0134 - AG M5 AT.0705 - IG M5</p>
<p>Art. No.: B10.018.002.* Hub/<i>Stroke</i>: 5,5 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR blau/<i>blue</i> 40° Shore Silikon transparent 50° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0134 - AG M5 AT.0705 - IG M5 AT.0104 - AG M6 AT.0539 - AG 1/8"</p>	<p>Art. No.: B10.019.005.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0538 - AG 1/8"</p>

<p>Art. No.: B10.019.006.* Hub/<i>Stroke</i>: 5,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: NR blau/<i>blue</i> 55° Shore NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0022 - AG M5</p> 	<p>Art. No.: B10.019.007.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0613 - AG M5 AT.0539 - AG 1/8"</p> 
<p>Art. No.: B10.020.015.* Hub/<i>Stroke</i>: 3,5 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: NR braun/<i>brown</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0536 - AG M5</p> 	<p>Art. No.: B10.020.017.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 2,0 g</p> <p>*Material: Vinyl transparent</p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8" - IG M5</p> 
<p>Art. No.: B10.020.016.* Hub/<i>Stroke</i>: 2,0 mm Gewicht/<i>Weight</i>: 0,5 g</p> <p>*Material: Silikon transparent</p> <p>Anschlusssteil/<i>Fitting</i> AT.0200 - AG M5</p> 	
<p>Art. No.: B10.022.002.* Hub/<i>Stroke</i>: 5,0 mm Gewicht/<i>Weight</i>: 2,2 g</p> <p>*Material: NR grau/<i>grey</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0702 - AG M5 AT.0238 - AG 1/8"-IG M5 00 08 14 - IG 1/8"</p> 	<p>Art. No.: B10.023.001.* Hub/<i>Stroke</i>: 7,0 mm Gewicht/<i>Weight</i>: 1,6 g</p> <p>*Material: Vinyl blau/<i>blue</i></p> <p>Anschlusssteile/<i>Fittings</i> AT.0200 - AG M5 AT.0064 - AG 1/8"</p> 

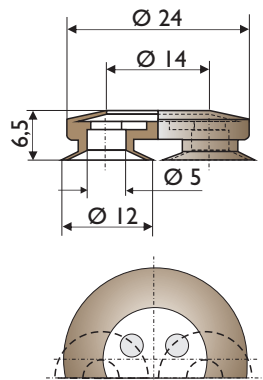
Balgensauger - Druckindustrie Ø 24 - 30 mm

Bellows Suction Cups - Printing Industry dia. 24 - 30 mm

Art. No.: B10.024.001.*

Hub/*Stroke*: 2,0 mm
Gewicht/*Weight*: 1,0 g

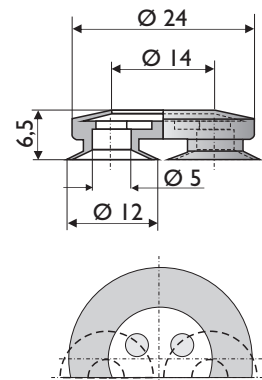
*Material:
NR braun/*brown* 40° Shore



Art. No.: B10.024.003.*

Hub/*Stroke*: 2,0 mm
Gewicht/*Weight*: 1,0 g

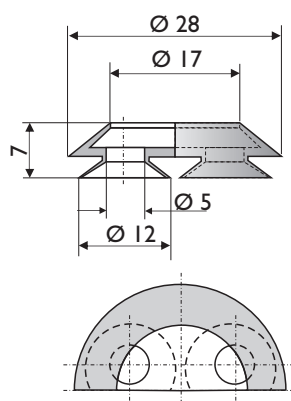
*Material:
Silikon transparent 50° Shore



Art. No.: B10.028.002.*

Hub/*Stroke*: 2,0 mm
Gewicht/*Weight*: 1,2 g

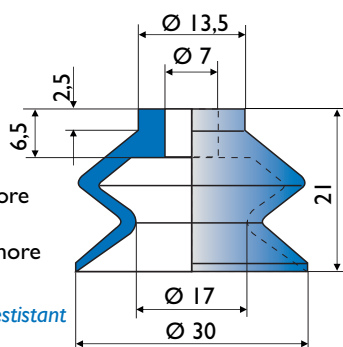
*Material:
NR schwarz/*black*
Silikon rot/*red*



Art. No.: B10.030.003.*

Hub/*Stroke*: 9,0 mm
Gewicht/*Weight*: 4,1 g

*Material:
Vinyl blau/*blue* 55° Shore
Polyurethan grün/*green* 30° Shore
Polyurethan orange 50° Shore
Polyurethan transparent 60° Shore
Alle Materialien/*all materials*
hochverschleißfest/*high wear-resistant*

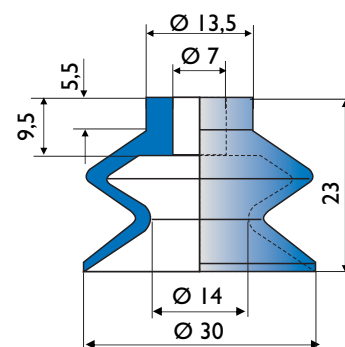


Anschlussteile/*Fittings*
AT.0702 - AG M5
00 08 08 - AG M6 MS vernickelt/
brass nickel plated

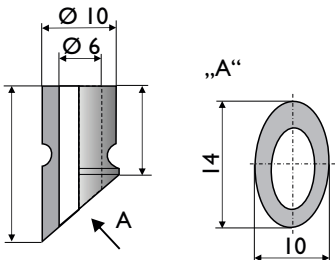
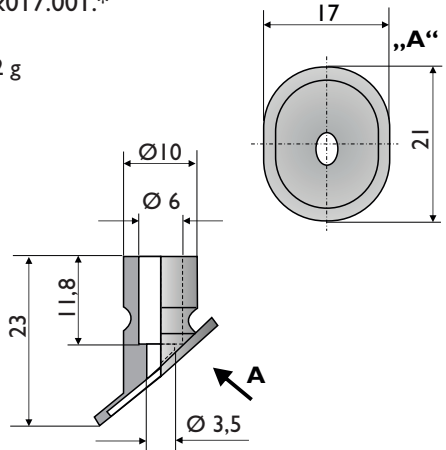
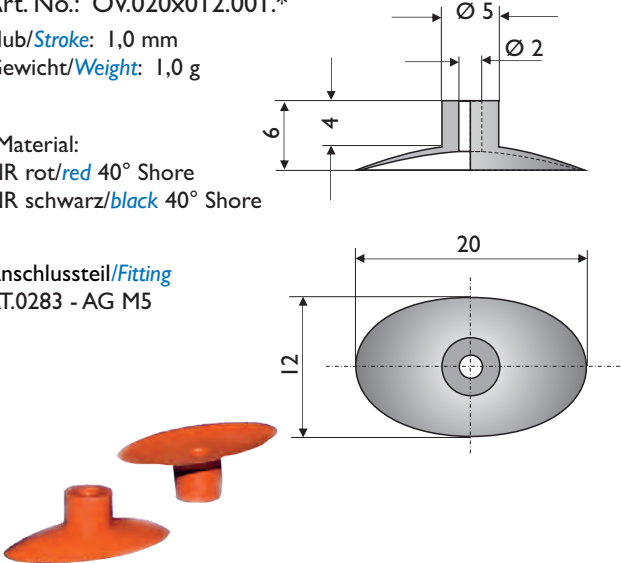
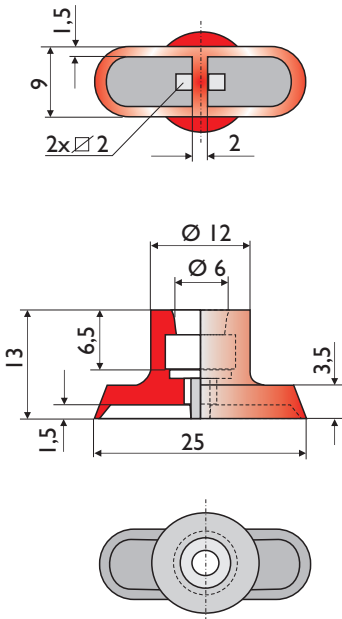
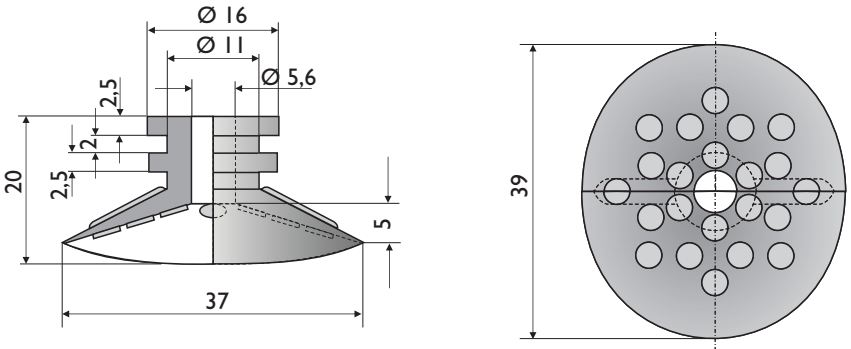
Art. No.: B10.030.015.*

Hub/*Stroke*: 9,0 mm
Gewicht/*Weight*: 4,8 g

*Material:
Vinyl blau/*blue*
hochverschleißfest/
high wear-resistant



Anschlussteile/*Fittings*
AT.0702 - AG M5
00 08 08 - AG M6 MS vernickelt/
brass nickel plated

<p>Art. No.: OV.014x010.001.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR schwarz/<i>black</i></p> 	<p>Art. No.: OV.021x017.001.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 1,2 g</p> <p>*Material: NR schwarz/<i>black</i></p> 
<p>Art. No.: OV.020x012.001.* Hub/<i>Stroke</i>: 1,0 mm Gewicht/<i>Weight</i>: 1,0 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore NR schwarz/<i>black</i> 40° Shore</p> <p>Anschlusssteil/<i>Fitting</i> AT.0283 - AG M5</p> 	<p>Art. No.: OV.025x009.001.* Hub/<i>Stroke</i>: 0,0 mm Gewicht/<i>Weight</i>: 1,1 g</p> <p>*Material: NR rot/<i>red</i> 40° Shore</p> <p>Anschlusssteile/<i>Fittings</i> AT.0094 - AG M5 AT.0095 - AG 1/8" AT.0096 - IG 1/8"</p> 
<p>Art. No.: OV.039x037.001.* Hub/<i>Stroke</i>: 8,0 mm Gewicht/<i>Weight</i>: 35 g</p> <p>*Material: NR schwarz/<i>black</i> NR beige NR rot/<i>red</i> NR blau/<i>blue</i></p> 	

Saugerzubehör - Druckindustrie

Accessories for Suction Cups - Printing Industry

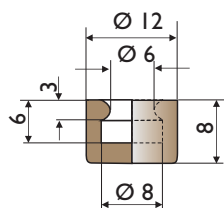
Kappe/Cap

Art. No.: VSK.12.6.*

Gewicht/Weight: 0,2 g

*Material:

NR braun/brown 40° Shore



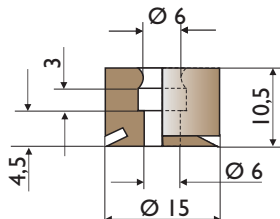
Saugscheibenhalter Suction Cup Holder

Art. No.: DRH.15.6.*

Gewicht/Weight: 2,0 g

*Material:

NR braun/brown 80° Shore



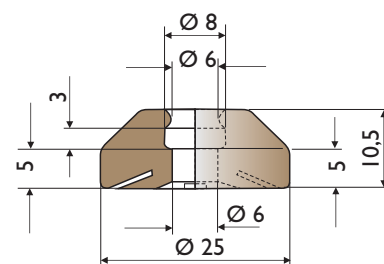
Saugscheibenhalter Suction Cup Holder

Art. No.: DRH.25.6.*

Gewicht/Weight: 4,0 g

*Material:

NR braun/brown 80° Shore



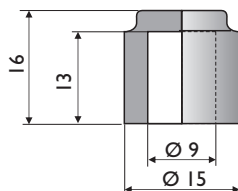
Puffer/Buffer

Art. No.: DRH.15.16.13.*

Gewicht/Weight: 1,0 g

*Material:

NR, schwarz/black



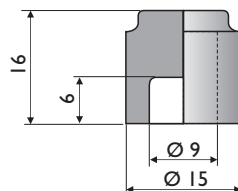
Puffer/Buffer

Art. No.: DRH.15.16.06.*

Gewicht/Weight: 1,3 g

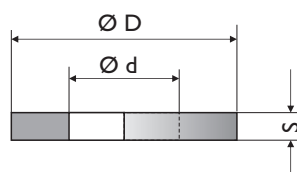
*Material:

NR, schwarz/black



Saugscheiben - Sondergrößen - Serie „DS“

Flat Rubber Discs - Special Sizes „DS“



Art. No.:	Ø D	Ø d	S	*Material	Shore	Farbe/Color
DS.022x006.07.*	22	6,0	0,7	Vulkollan	70°	braun/brown (b)
DS.025x006.15.*	25	6,0	1,5	NR	40°	braun/brown (b)
DS.032x015.10.*	32	15	1,0	Vulkollan	70°	braun/brown (b)
DS.045x007.02.*	45	7,0	2,0	NR	48°	rot/red (r)
DS.056x011.03.*	56	11	3,0	NBR	50°	schwarz/black (sw)
DS.110x065.02.*	110	65	2,0	NBR	45°	rot/red (r)
01 17 31.*	17	3,5	0,8	NR	40°	braun/brown (b)
01 30 41.*	30	4,0	1,5	NR	40°	gelb/yellow (ge)
01 30 91.*	30	9,0	1,5	NR	40°	braun/brown (b)
01 57 81.*	57	8,5	1,3	Silikon	40°	transparent (tr)

Weitere Größen auf Anfrage.

Further sizes on request.

3/2-Elektro-Wegeventile bis 3"
 3/2-Way Solenoid Valves up to 3"



Vakuumpumpen, ölgeschmiert
 Vacuum filters up to 4" and Inline Filters



Vakuumpumpen, ölgeschmiert
 von 2 bis 300 m³/h
 Vacuum Pumps, oil lubricated
 from 2 to 300 m³/h



Kombinierte pneumatische Saug- und
 Gebläsepumpen
 Pneumatic Suction and Blowing Pumps,
 combined



Sauggebläsesystem für die Grafik-
 industrie
 Suction and Blowing System for
 the Printing Industry

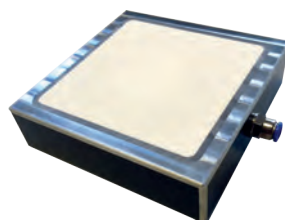


Vakuumbühnenzylinder
 Vacuum Lifting Cylinders

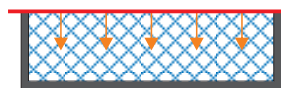


MF-Metapor

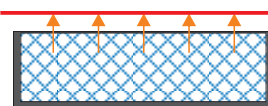
- mikroporöser Werkstoff
- aus Aluminium oder Keramik
- microporous material
- made of aluminum or ceramics



- zum Fixieren
- für den Tampondruck
- to fix
- for the tampon print



- zum berührungslosen Gleiten
- to glide without contact



- zum Umlenken
- to redirect

