

Convincing vacuum technology for automated production processes



w e l t w e i t
w o r l d w i d e
e f f e k t i v
e f f e c t i v e
a k t i v
a c t i v e

Automatisierung / Robotik
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Kunststoff

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Medicine

Molkereien

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Special mechanical engineering

Steinbearbeitung

Stone processing

Verpackung

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Your partner for effective vacuum technology

Morali Produktionstechnik GmbH
Schwarzwaldstraße 4/2
D-78628 Rottweil

Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

Email: info@morali-gmbh.de
www.morali-gmbh.de



- Schnellübersicht mit Richtwerten
- Quick overview with benchmarks

Material Einsatz Opera tion	NBR .01	Silikon .02	NR .03	CR .04	Polyurethan .05	EPDM .06	FKM .07	HNBR .09	S BR .10	Vinyl .V
Allzweckeinsatz <i>All-purpos e</i>	***	**	*	**	*	—	—	**	—	**
Arbeitstemperatur in ° C <i>Working tempera tur in ° C</i>	-40 +90	-70 +200	-40 +80	-40 +90	-25 +80	-40 +130	-20 +200	-40 +160	-40 +80	-20 +80
Shorehärte (A) <i>Shore hardness (A)</i>	50-60°	30-60°	30-60°	50-60°	50-75°	50°	60°	55°	50°	50-60°
Ozonbeständigkeit <i>Ozone resist ance</i>	**	***	—	***	***	***	***	**	—	*
Verschleiß <i>Wear-resist ance</i>	**	**	**	***	***	*	**	**	**	***
Öl-Fett-Benzin <i>Oil-Grea se-Petrol</i>	**	**	—	**	***	*	***	***	—	*
Rapsöl (biologische Öle) <i>Rapeseed-oil (biological oils)</i>	—	**	—	—	—	—	**	***	—	—
Säuren <i>Acids</i>	—	*	—	—	—	—	***	**	—	*
Unebene Flächen und verformbare Produkte <i>Uneven area s and malleable products</i>	*	***	***	*	*	*	—	*	**	***
Heiße Produkte <i>Hot products</i>	—	***	—	—	—	**	***	**	—	—
Heiße Produkte (silikonfrei) <i>Hot products (silicone free)</i>	—	—	—	—	—	**	***	***	—	—
Lebensmittel <i>Food</i>	—	***	**	—	—	**	—	—	—	*
Hochabdruckarm <i>High anti-marking</i>	**	*	**	*	**	**	***	**	**	**

Hinweise/Notes:

Hauptmaterialien sind Nitrilkautschuk, Naturgummi und Silikon
Main materials are Nitrile rubber, natural rubber and Silicone

Je nach Einsatzfall unterliegen Vakuumsauger mechanischen und chemischen Beanspruchungen. Deshalb dienen die obigen Angaben nur als Richtwerte.
Depending on case of use the vacuum cups are subject to mechanical and chemical uses. Therefore the above details only serve as reference values.

Sehr gut - very good = ***
Gut - good = **
Genügend - sufficient = *
Ungeeignet - unusuable = —

- Für Fragen steht die Technik gerne zur Verfügung.
- Our technical department stands for any questions at your disposal.

Material

NBR = Nitrile rubber
Silikon = Silicone rubber
NR = Natural rubber
CR = Chloroprene
Polyurethan = Polyurethane
EPDM = Ethylene-propylene-diene-rubber
FKM = Fluorocarbon rubber
HNBR = Hydrogenated nitrile rubber
SBR = Styrol-Butadien-rubber
Vinyl = Polyvinyl-chloride

Tabelle zur Bestimmung der Saugerhebekraft in Abhängigkeit Von Vakuumhöhe und Saugerdurchmesse

**Table for calculating the lifting force of vacuum cups depending
On vacuum degree and cup diameter**



Sauger Cup Ø	10%	20%	30%	40%	50%	60%	70%	75%	80%	90%	100%
5	0,020	0,039	0,059	0,079	0,098	0,118	0,137	0,147	0,157	0,177	0,196
10	0,079	0,157	0,236	0,314	0,393	0,471	0,550	0,589	0,628	0,707	0,785
15	0,177	0,353	0,530	0,707	0,884	1,060	1,237	1,325	1,414	1,590	1,767
20	0,314	0,628	0,942	1,257	1,571	1,885	2,199	2,356	2,513	2,827	3,142
25	0,491	0,982	1,473	1,963	2,454	2,945	3,436	3,682	3,927	4,418	4,909
30	0,707	1,414	2,121	2,827	3,534	4,241	4,948	5,301	5,655	6,362	7,069
35	0,962	1,924	2,886	3,848	4,811	5,773	6,735	7,216	7,697	8,659	9,621
40	1,257	2,513	3,770	5,027	6,283	7,540	8,796	9,425	10,053	11,310	12,566
45	1,590	3,181	4,771	6,362	7,952	9,543	11,133	11,928	12,723	14,314	15,904
50	1,963	3,927	5,890	7,854	9,817	11,781	13,744	14,726	15,708	17,671	19,635
55	2,376	4,752	7,127	9,503	11,879	14,255	16,631	17,819	19,007	21,382	23,758
60	2,827	5,655	8,482	11,310	14,137	16,965	19,792	21,206	22,619	25,447	28,274
65	3,318	6,637	9,955	13,273	16,592	19,910	23,228	24,887	26,546	29,865	33,183
70	3,848	7,697	11,545	15,394	19,242	23,091	26,939	28,863	30,788	34,636	38,485
75	4,418	8,836	13,254	17,671	22,089	26,507	30,925	33,134	35,343	39,761	44,179
80	5,027	10,053	15,080	20,106	25,133	30,159	35,186	37,699	40,212	45,239	50,265
85	5,675	11,349	17,024	22,698	28,373	34,047	39,722	42,559	45,396	51,071	56,745
90	6,362	12,723	19,085	25,447	31,809	38,170	44,532	47,713	50,894	57,256	63,617
95	7,088	14,176	21,265	28,353	35,441	42,529	49,618	53,162	56,706	63,794	70,882
100	7,854	15,708	23,562	31,416	39,270	47,124	54,978	58,905	62,832	70,686	78,540
105	8,659	17,318	25,977	34,636	43,295	51,954	60,613	64,943	69,272	77,931	86,590
110	9,503	19,007	28,510	38,013	47,517	57,020	66,523	71,275	76,027	85,530	95,033
115	10,387	20,774	31,161	41,548	51,934	62,321	72,708	77,902	83,095	93,482	103,869
120	11,310	22,619	33,929	45,239	56,549	67,858	79,168	84,823	90,478	101,788	113,097
125	12,272	24,544	36,816	49,087	61,359	73,631	85,903	92,039	98,175	110,447	122,718
130	13,273	26,546	39,820	53,093	66,366	79,639	92,913	99,549	106,186	119,459	132,732
135	14,314	28,628	42,942	57,256	71,569	85,883	100,197	107,354	114,511	128,825	143,139
140	15,394	30,788	46,181	61,575	76,969	92,363	107,757	115,454	123,150	138,544	153,938
145	16,513	33,026	49,539	66,052	82,565	99,078	115,591	123,847	132,104	148,617	165,130
150	17,671	35,343	53,014	70,686	88,357	106,029	123,700	132,536	141,372	159,043	176,715
155	18,869	37,738	56,608	75,477	94,346	113,215	132,084	141,519	150,954	169,823	188,692
160	20,106	40,212	60,319	80,425	100,531	120,637	140,743	150,796	160,850	180,956	201,062
165	21,382	42,765	64,147	85,530	106,912	128,295	149,677	160,368	171,060	192,442	213,825
170	22,698	45,396	68,094	90,792	113,490	136,188	158,886	170,235	181,584	204,282	226,980
175	24,053	48,106	72,158	96,211	120,264	144,317	168,370	180,396	192,423	216,475	240,528
180	25,447	50,894	76,341	101,788	127,235	152,681	178,128	190,852	203,575	229,022	254,469
185	26,880	53,761	80,641	107,521	134,401	161,282	188,162	201,602	215,042	241,922	268,803
190	28,353	56,706	85,059	113,411	141,764	170,117	198,470	212,647	226,823	255,176	283,529
195	29,865	59,730	89,594	119,459	149,324	179,189	209,053	223,986	238,918	268,783	298,648
200	31,416	62,832	94,248	125,664	157,080	188,496	219,911	235,619	251,327	282,743	314,159
210	34,636	69,272	103,908	138,544	173,180	207,816	242,452	259,770	277,088	311,725	346,361
220	38,013	76,027	114,040	152,053	190,066	228,080	266,093	285,100	304,106	342,119	380,133
230	41,548	83,095	124,643	166,190	207,738	249,285	290,833	311,607	332,381	373,928	415,476
240	45,239	90,478	135,717	180,956	226,195	271,434	316,673	339,292	361,911	407,150	452,389
250	49,087	98,175	147,262	196,350	245,437	294,524	343,612	368,155	392,699	441,786	490,874
260	53,093	106,186	159,279	212,372	265,465	318,557	371,650	398,197	424,743	477,836	530,929
270	57,256	114,511	171,767	229,022	286,278	343,533	400,789	429,416	458,044	515,300	572,555
280	61,575	123,150	184,726	246,301	307,876	369,451	431,027	461,814	492,602	554,177	615,752
290	66,052	132,104	198,156	264,208	330,260	396,312	462,364	495,390	528,416	594,468	660,520
300	70,686	141,372	212,058	282,743	353,429	424,115	494,801	530,144	565,487	636,173	706,858

Hinweise:

- Alle Werte in kg mit einfacher Sicherheit.
- Mindestsicherheit ist 2fach,
also kg dividiert durch 2 ergibt die Tragkraft pro Sauger.
- Angabe in Newton (N), ist der genannte Wert x10.

Notes:

- All values in kg without safety factor.
- Minimum level of safety is twice.
This means that kg divided by factor 2 results the lifting capacity per vacuum cup.
- Values in Newton (N): kg multiplied by 10.

Dieser Fragebogen wurde für eine schnelle und unkomplizierte Angebotsabgabe erstellt.
Bitte kreuzen Sie die zutreffenden Antworten an.

, Fax +49 (0) 741 / 175 260-29

Firma: _____ Ansprechpartner: _____
Straße: _____ Tel.: _____ Fax: _____
PLZ, Ort, Land: _____ E-Mail: _____

1. Was wollen Sie transportieren?

☐ Kunststoff ☐ Holz ☐ Glas ☐ Papier/Karton ☐ Blech ☐ Sonstige _____

2. Wie ist die Werkstückoberfläche?

☐ glatt ☐ rau ☐ strukturiert ☐ wellig ☐ ölig ☐ gezündert ☐ nass ☐ trocken ☐ porös

3. Welche Form haben die Werkstücke?

⇒ ☐ quadratisch ☐ rechteckig ☐ rund ☐ Sonstige _____

4. Abmessungen/Gewicht

Länge (mm) _____ Breite (mm) _____ Dicke/Ø _____ Gewicht (g/kg) _____

5. Wie ist die Heberichtung?

☐ senkrecht
heben



☐ waagrecht
heben



☐ schwenken



6. Bisheriges Saugerfabrikat/-hersteller?

Art. Nr. _____ Hersteller _____

7. Saugertyp?

☐ Flachsauger ☐ Balgensauger ☐ Oval-/ Rechtecksauger

8. Gewünschtes Material? (Wenn bekannt ist, sonst beraten wir Sie gerne)

☐ NBR ☐ NR ☐ Polyurethan ☐ FKM ☐ SBR
☐ Silikon ☐ CR ☐ EPDM ☐ HNBR ☐ Vinyl

Please be kind enough to answer the following questions carefully,
so we can recommend the best solution.

, Fax +49 (0) 741 / 175 260-29

Company: _____ Contact Person: _____
Address: _____ Phone: _____ Fax: _____
Postal Code/City/Country: _____ E-Mail: _____

1. What kind of parts you are handling?

☐ Plastics ☐ Wood ☐ Glass ☐ Paper/Cardboard ☐ Metal Sheet ☐ Other _____

2. How is the workpiece surface?

☐ smooth ☐ rough ☐ textured ☐ rippled ☐ oily ☐ scaled ☐ wet ☐ dry ☐ porous

3. Which geometrical shape the workpieces have?

⇒ ☐ square ☐ rectangular ☐ round ☐ other _____

4. Dimensions/Weight

Length (mm) _____ Width (mm) _____ Thickness/Ø _____ Weight (g/kg) _____

5. How is the motion direction?

☐ to be lifted vertically



☐ to be lifted horizontally



☐ swivel



6. Machinery implemented on by the vacuum cups?

Manufacturer _____ Country _____

7. Type of vacuum cups?

☐ Flat vacuum cups ☐ Bellows vacuum cups ☐ Oval-/ rectangular vacuum cups

8. Material desired?

☐ NBR ☐ NR ☐ Polyurethan ☐ FKM ☐ SBR
☐ Silicone ☐ CR ☐ EPDM ☐ HNBR ☐ Vinyl

Flachsauger | Flat cups

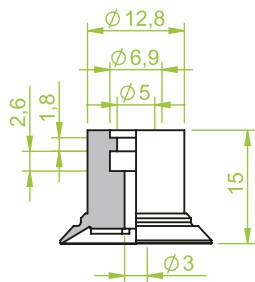
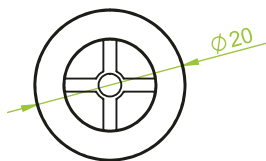
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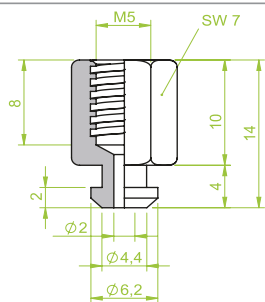
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Material | Material
NBR, S, NR

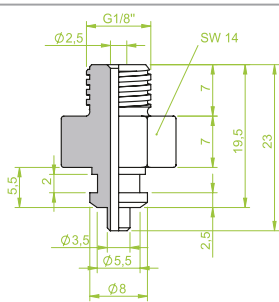
Gewicht | Weight: 2.0 gr
Hub | Stroke: 1.0 mm



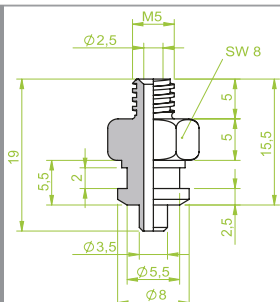
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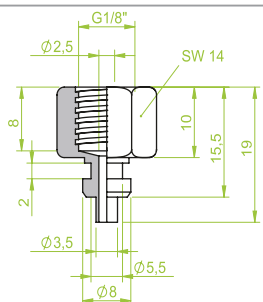
Art.: 130.085 G1/8" AG



Art.: 130.037 M5 AG



Art.: 130.086 G1/8" IG



Flachsauger | Flat cups

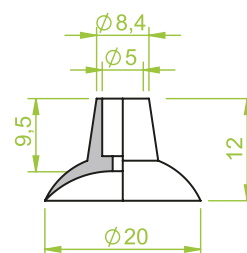
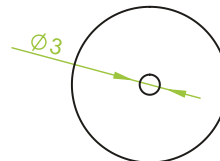
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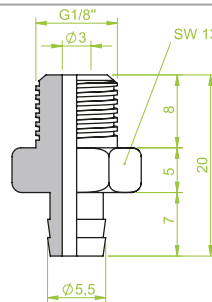
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Material | Material
NBR, S

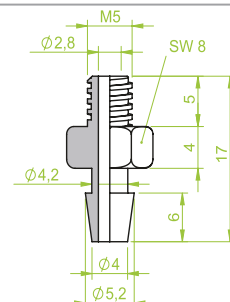
Gewicht | Weight: 1.0 gr
Hub | Stroke: 2.5 mm



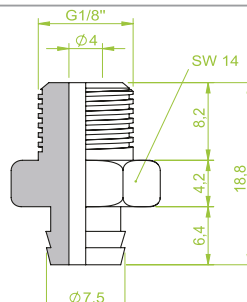
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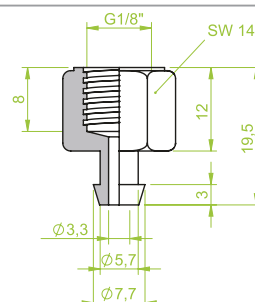
Art.: 130.134



Art.: 130.238



Art.: 130.109



Flachsauger | Flat cups

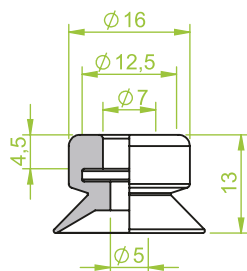
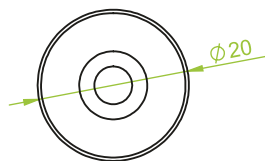
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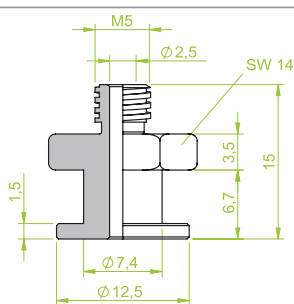
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Material | Material
NBR, S, PU

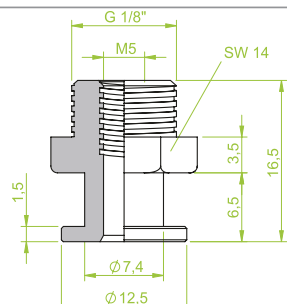
Gewicht | Weight: 2.0 gr
Hub | Stroke: 1.0 mm



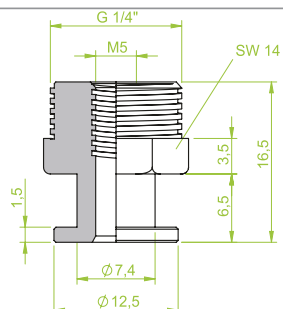
Art.: 130.604



Art.: 130.605



Art.: 130.606



Flachsauger | Flat cups

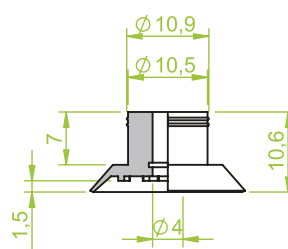
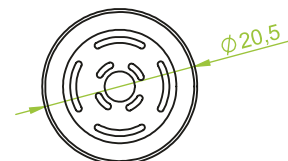
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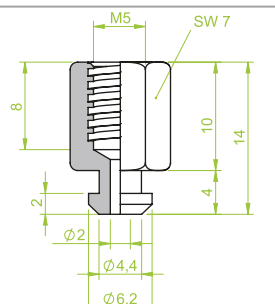
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Material | Material

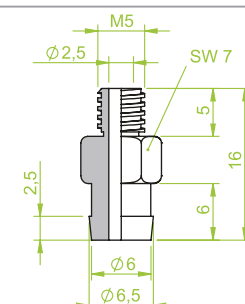
Gewicht | Weight: gr
Hub | Stroke: mm



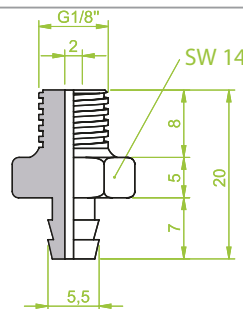
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Art.: 130.013



Art.: 130.087



Flachsauger | Flat cups

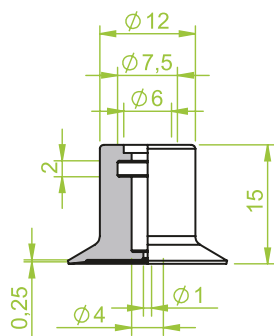
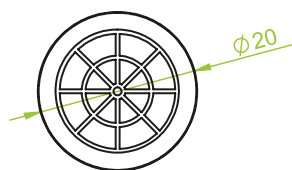
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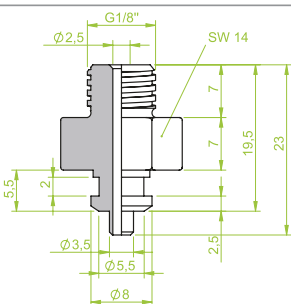
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Material | Material
NR, S

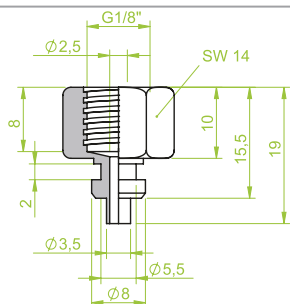
Gewicht | Weight: 1.8 gr
Hub | Stroke: 0.1 mm



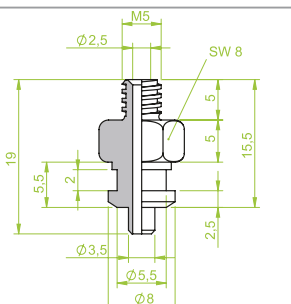
Art.: 130.085



Art.: 130.086



Art.: 130.037



Flachsauger | Flat cups

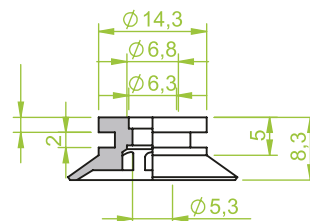
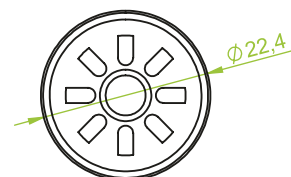
Ø 22



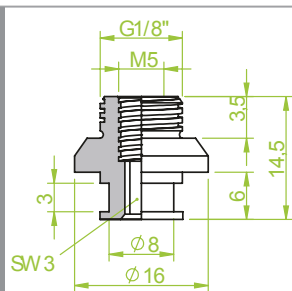
Art.: 10.022.005_

Material | Material
NBR, S, PU

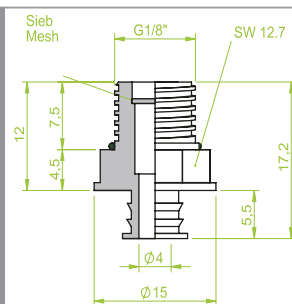
Gewicht | Weight: 1.0 gr
Hub | Stroke: 0.5 mm



Art.: 130.250 G1/8" AG



Art.: 130.291 G1/8" AG



Flachsauger | Flat cups

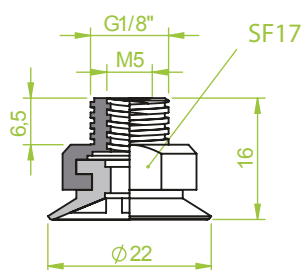
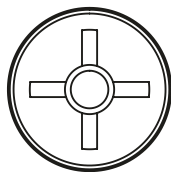
Ø 22



Art.: 11.022.004._

Material | *Material*
NBR, S

Gewicht | *Weight*: 3.5 gr
Hub | *Stroke*: 0.5 mm



Flachsauger | Flat cups

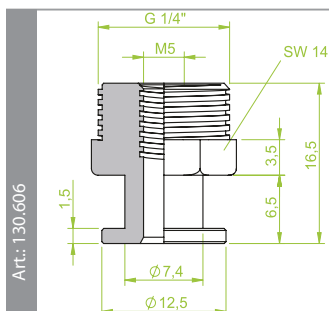
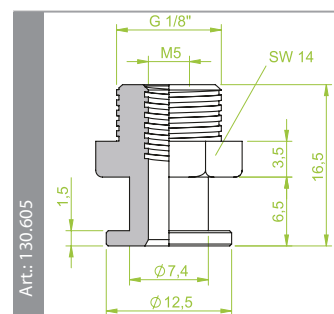
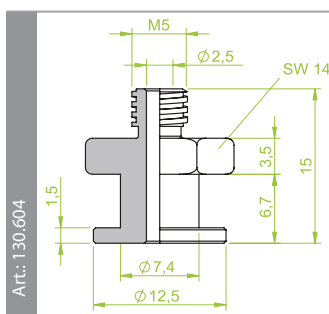
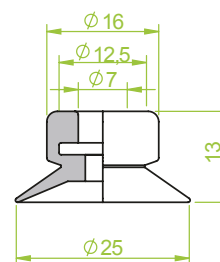
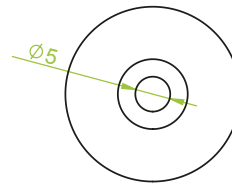
Ø 25



Art.: 10.025.587._

Material | *Material*
S, PU

Gewicht | *Weight*: 2.0 gr
Hub | *Stroke*: 5.0 mm



Flachsauger | Flat cups

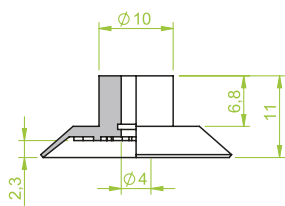
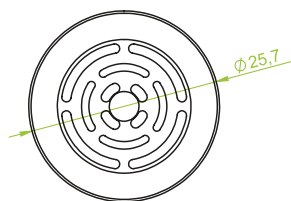
Ø 26



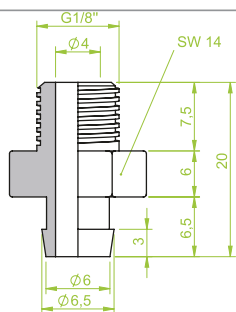
Art.: 10.026.032._

Material | Material
NR, S

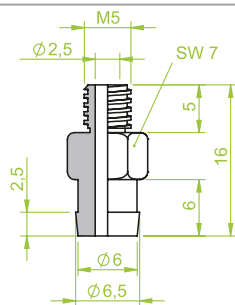
Gewicht | Weight: 0.9 gr
Hub | Stroke: 2.0 mm



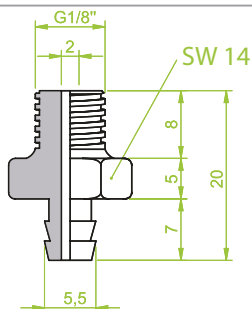
Art.: 130.003



Art.: 130.013



Art.: 130.087



Flachsauger | Flat cups

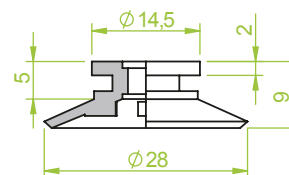
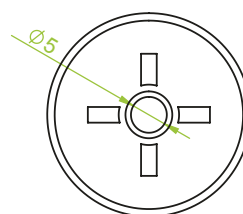
Ø 28



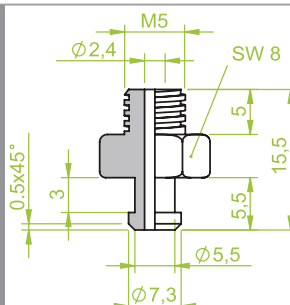
Art.: 10.028.098._

Material | Material
NBR, S

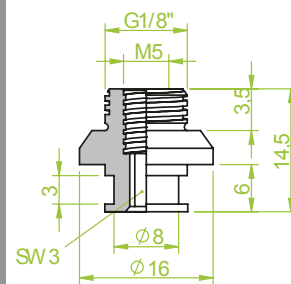
Gewicht | Weight: 1.6 gr
Hub | Stroke: 1.0 mm



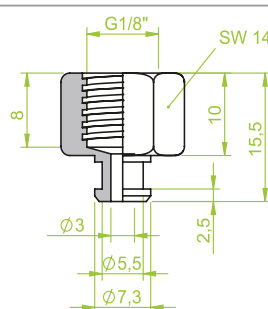
Art.: 130.094 M5 AG



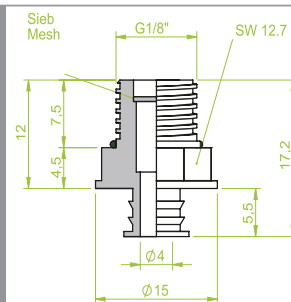
Art.: 130.250 G1/8" AG



Art.: 130.096 G1/8" IG



Art.: 130.291 G1/8" AG



Flachsauger | Flat cups

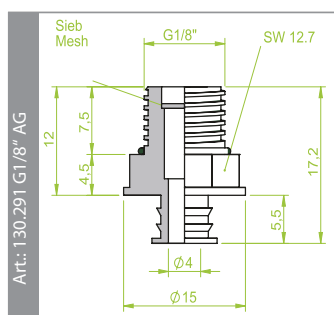
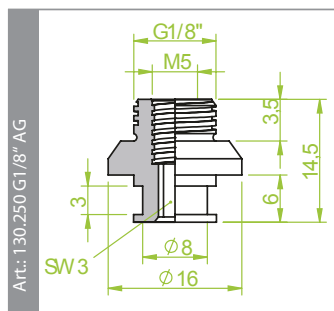
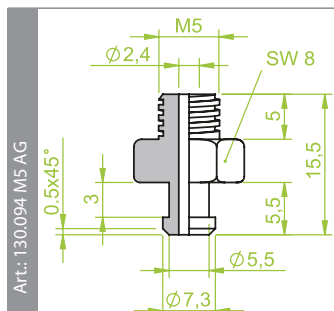
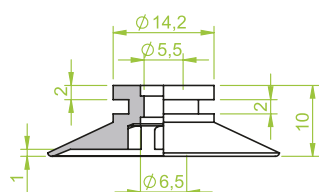
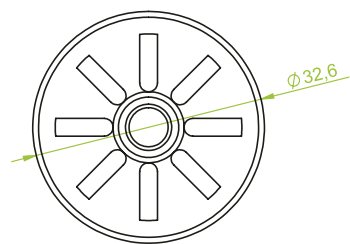
Ø 32



Art.: 10.032.022._

Material | Material
NBR, S

Gewicht | Weight: 1.8 gr
Hub | Stroke: 2.5 mm



Flachsauger | Flat cups

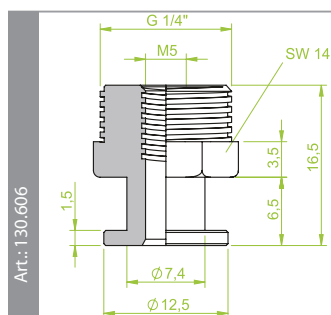
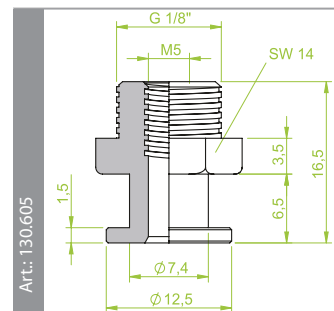
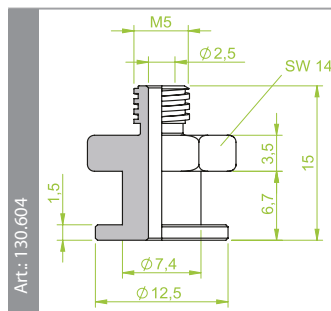
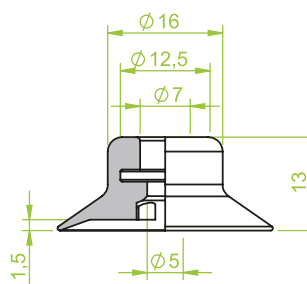
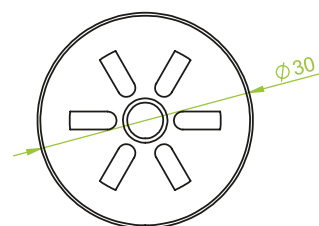
Ø 30



Art.: 10.030.590._

Material | Material
S, PU

Gewicht | Weight: 2.5 gr
Hub | Stroke: 3.0 mm



Flachsauger | Flat cups

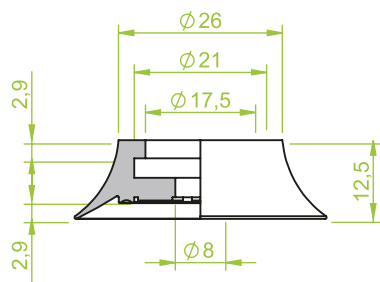
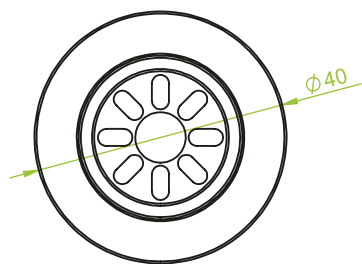
Ø 40



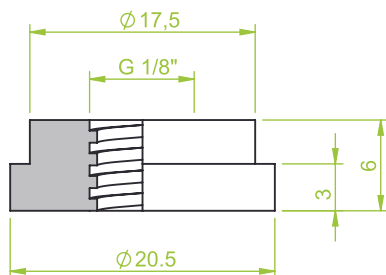
Art.: 10.040.466_

Material | Material
NR, S

Gewicht | Weight: 20.0 gr
Hub | Stroke: 3.0 mm



Art.: 130.234 G1/8" IG



Flachsauger | Flat cups

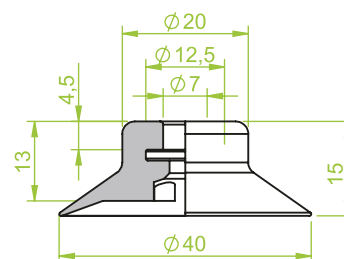
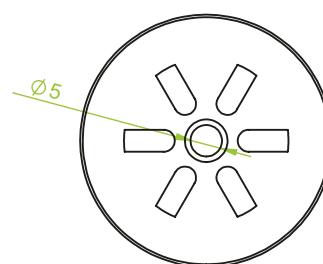
Ø 40



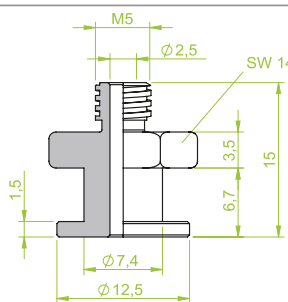
Art.: 10.040.591_

Material | Material
NBR, S, PU

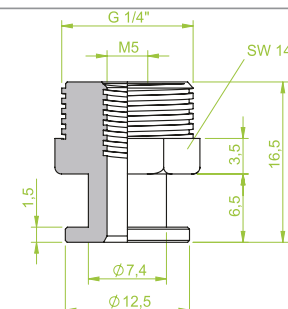
Gewicht | Weight: 5.8 gr
Hub | Stroke: 3.0 mm



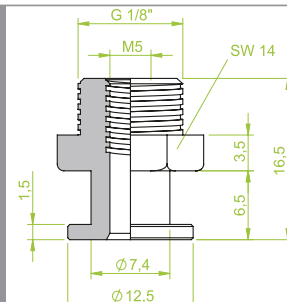
Art.: 130.604



Art.: 130.606



Art.: 130.605



Flachsauger | Flat cups

Ø 40



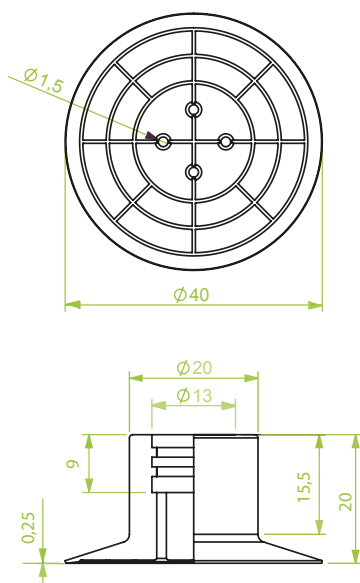
Art.: 10.040.627_

Material | Material

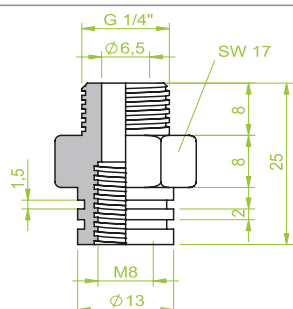
Gewicht | Weight: 7.0 gr

NR

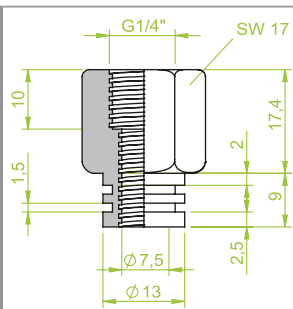
Hub | Stroke: 0.1 mm



Art.: 130.097



Art.: 130.098



Flachsauger | Flat cups

Ø 42



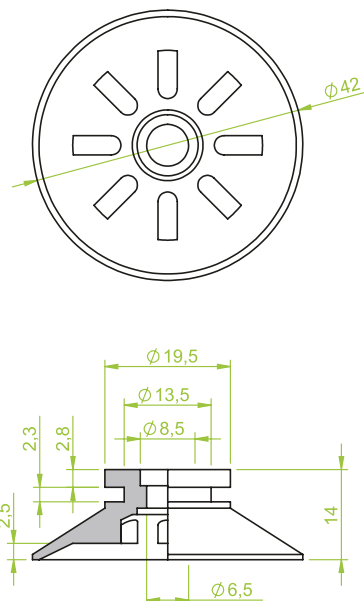
Art.: 10.042.099_

Material | Material

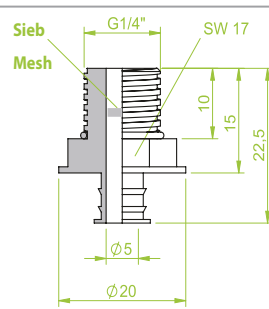
Gewicht | Weight: 6.4 gr

NBR, S

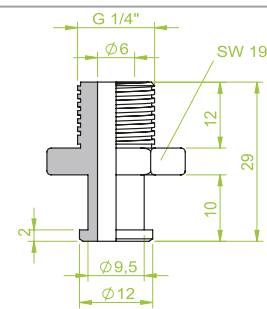
Hub | Stroke: 2.0 mm



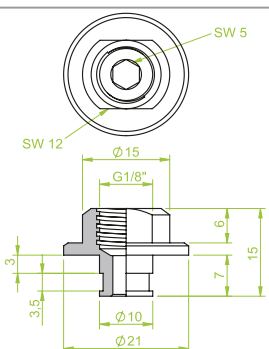
Art.: 130.293 G1/4\"/>



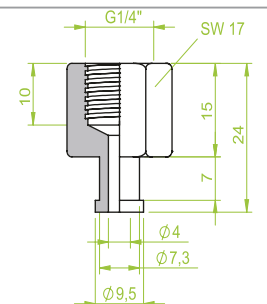
Art.: 130.274 G1/4\"/>



Art.: 130.251 G1/8\"/>



Art.: 130.275 G1/4\"/>



Flachsauger | Flat cups

Ø 42



Flachsauger | Flat cups

Ø 49



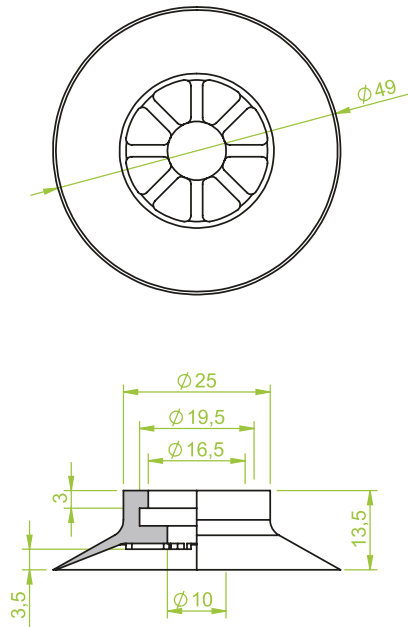
Art.: 10.049.003_

Material | Material

Gewicht | Weight: 7.0 gr

NBR

Hub | Stroke: 3.5 mm



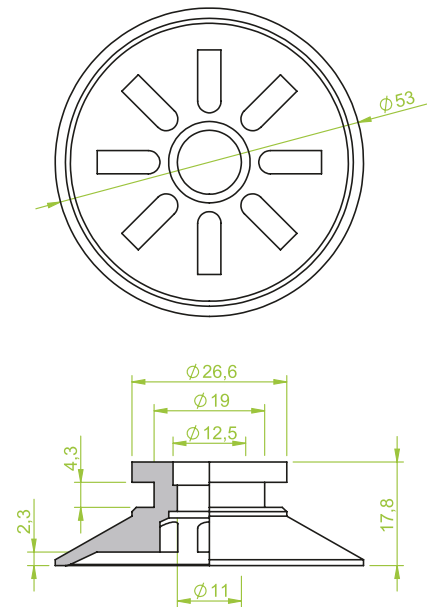
Art.: 10.053.100_

Material | Material

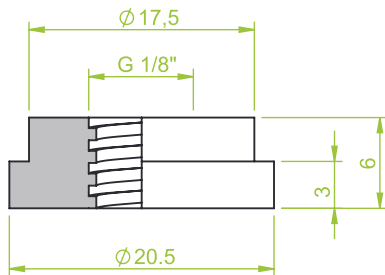
Gewicht | Weight: 12.4 gr

NBR, S

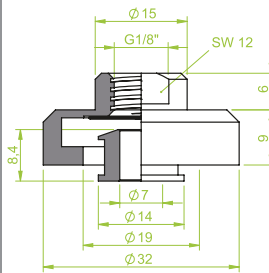
Hub | Stroke: 4.0 mm



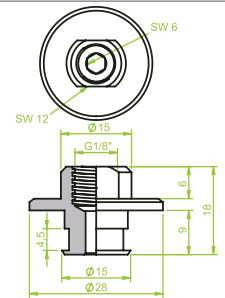
Art.: 130.234 G1/8" IG



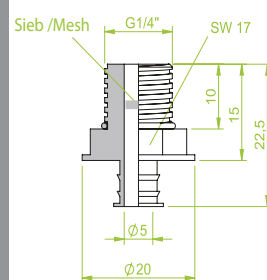
Art.: 130.137



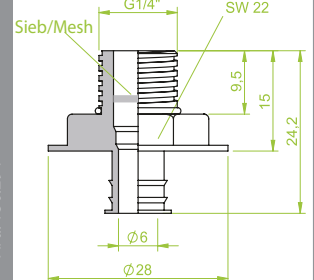
Art.: 130.252



Art.: 130.293



Art.: 130.294



Flachsauger | Flat cups

Ø 60



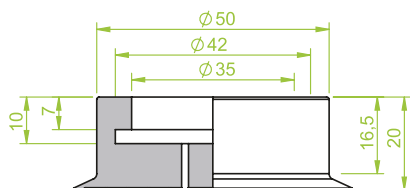
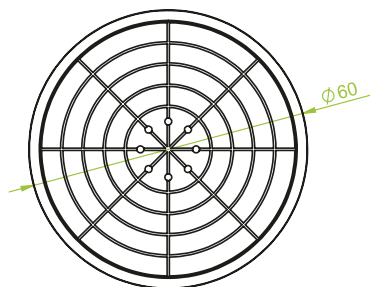
Art.: 10.060.628_

Material | Material

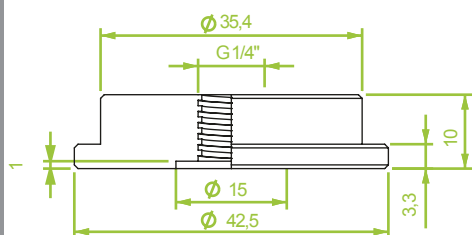
Gewicht | Weight: 30.78 gr

NR

Hub | Stroke: 0.1 mm



Art.: 130.528



Flachsauger | Flat cups

Ø 60



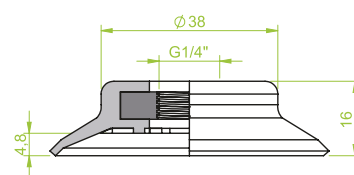
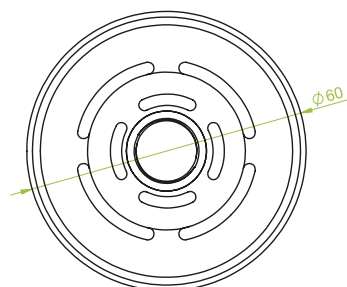
Art.: 13.060.006_

Material | Material

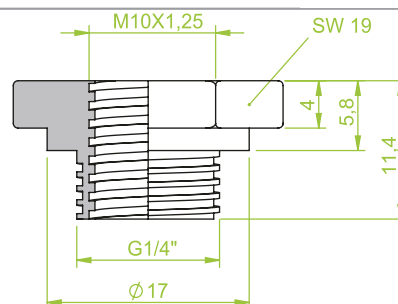
Gewicht | Weight: 15.2 gr

NBR, S, PU

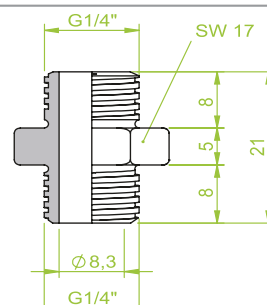
Hub | Stroke: 5.0 mm



Art.: 130.090 M10X1.25 IG



Art.: 130.191 G1/4\" AG



Flachsauger | Flat cups

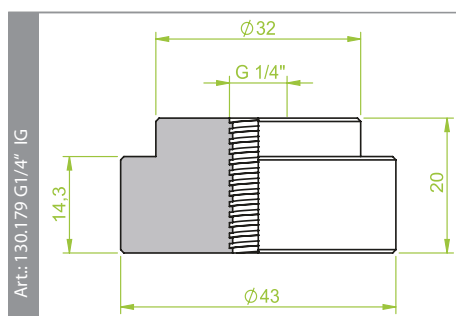
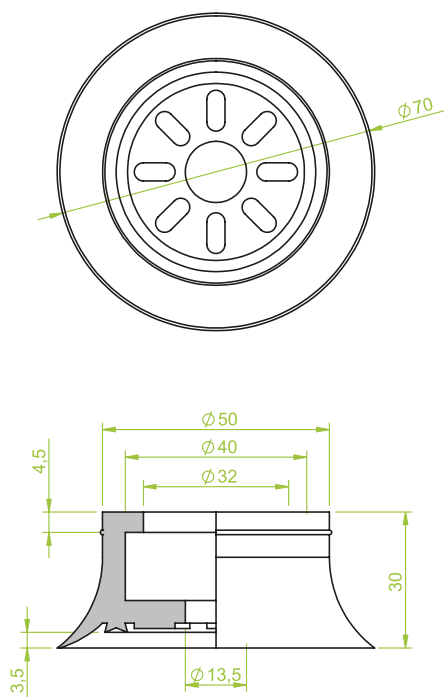
Ø 70



Art.: 10.070.023_

Material | Material
NR, S, SBR, NBR

Gewicht | Weight: 32.0 gr
Hub | Stroke: 6.0 mm



Art.: 130.179 G1/4" IG

Flachsauger | Flat cups

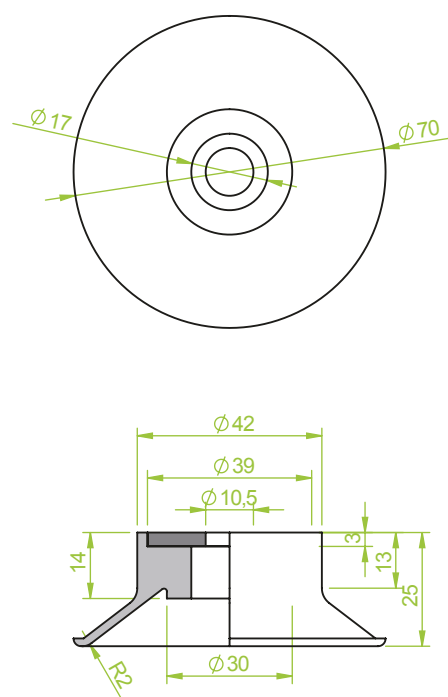
Ø 70



Art.: 15.070.024_

Material | Material
NR

Gewicht | Weight: 50.0 gr
Hub | Stroke: 10.0 mm



Art.: 130.380

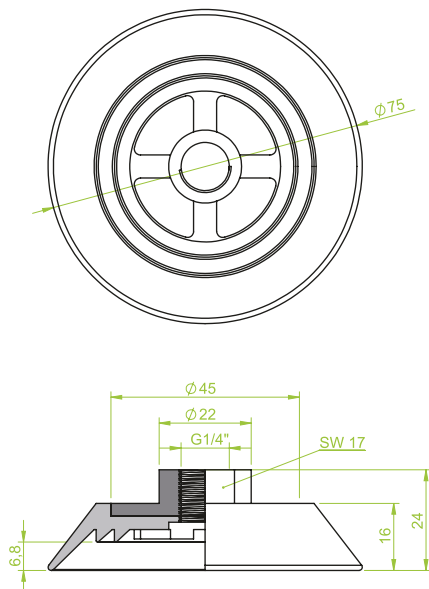
Flachsauger | Flat cups

Ø 75



Art.: 13.075.017._

Material | *Material*
S, CR

Gewicht | *Weight*: 40.0 grHub | *Stroke*: 6.8 mm

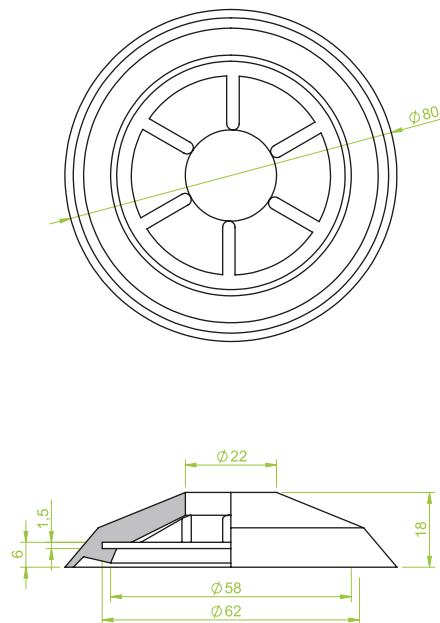
Flachsauger | Flat cups

Ø 80



Art.: 10.080.531._

Material | *Material*
NR

Gewicht | *Weight*: 30.0 grHub | *Stroke*: 7.0 mm

Flachsauger | Flat cups

Ø 80



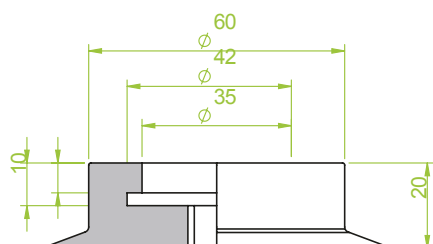
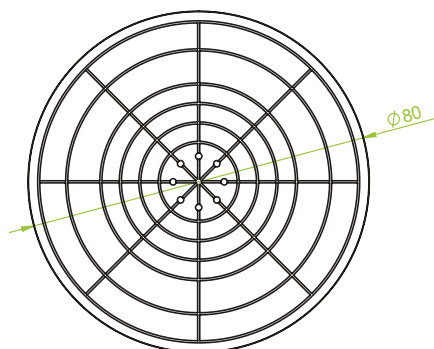
Art.: 10.080.629_

Material | Material

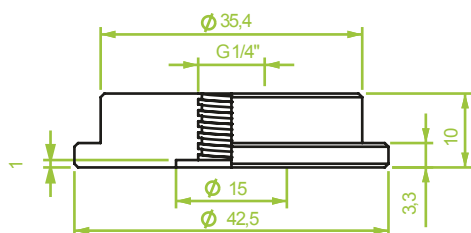
Gewicht | Weight: ?? gr

NR

Hub | Stroke: ?? mm



Art.: 130.528



Flachsauger | Flat cups

Ø 80



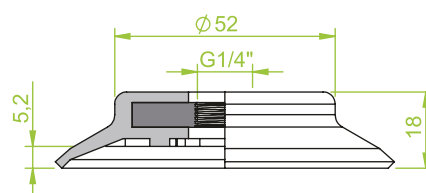
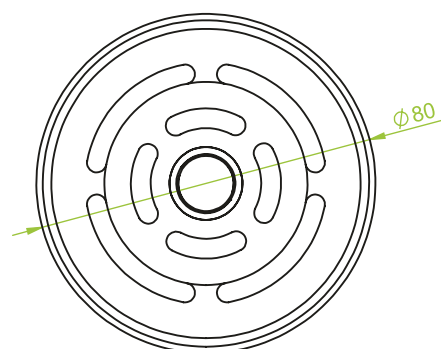
Art.: 13.080.007_

Material | Material

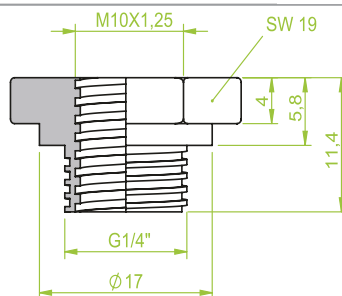
Gewicht | Weight: 52.8 gr

NBR, S, PU

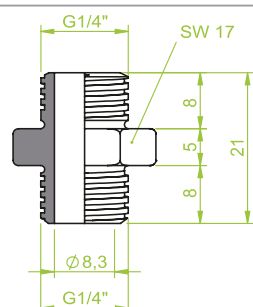
Hub | Stroke: 6.0 mm



Art.: 130.090 M10 x 1,25 IG



Art.: 130.191 G1/4\" AG



Flachsauger | Flat cups

Ø 95



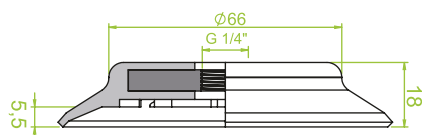
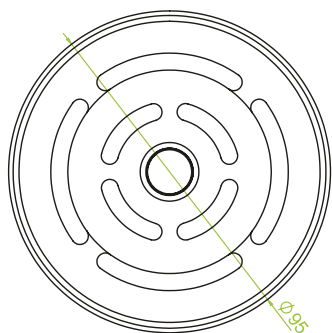
Art.: 13.095.008_

Material | Material

Gewicht | Weight: 92.0 gr

NBR, S, PU

Hub | Stroke: 6.0 mm



Flachsauger | Flat cups

Ø 100



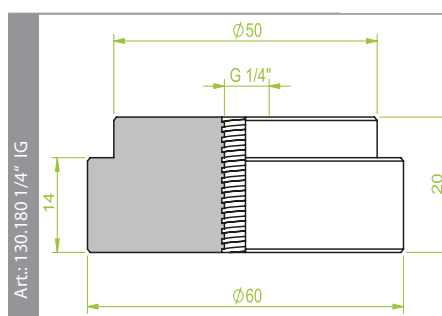
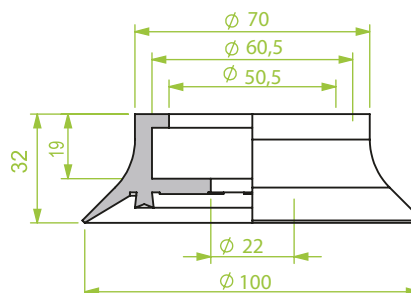
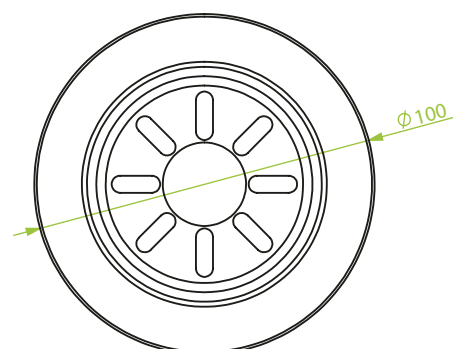
Art.: 10.100.096_

Material | Material

Gewicht | Weight: 68.0 gr

NBR, NR

Hub | Stroke: 5.0 mm



Flachsauger | Flat cups

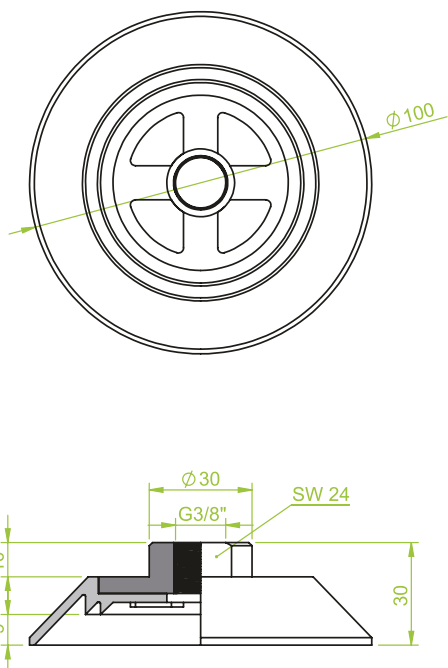
Ø 100



Art.: 13.100.018._

Material | Material
NBR, S, NR

Gewicht | Weight: 83.0 gr
Hub | Stroke: 10.0 mm



Anschlusssteil IG 3/8\" vulkanisiert

Flachsauger | Flat cups

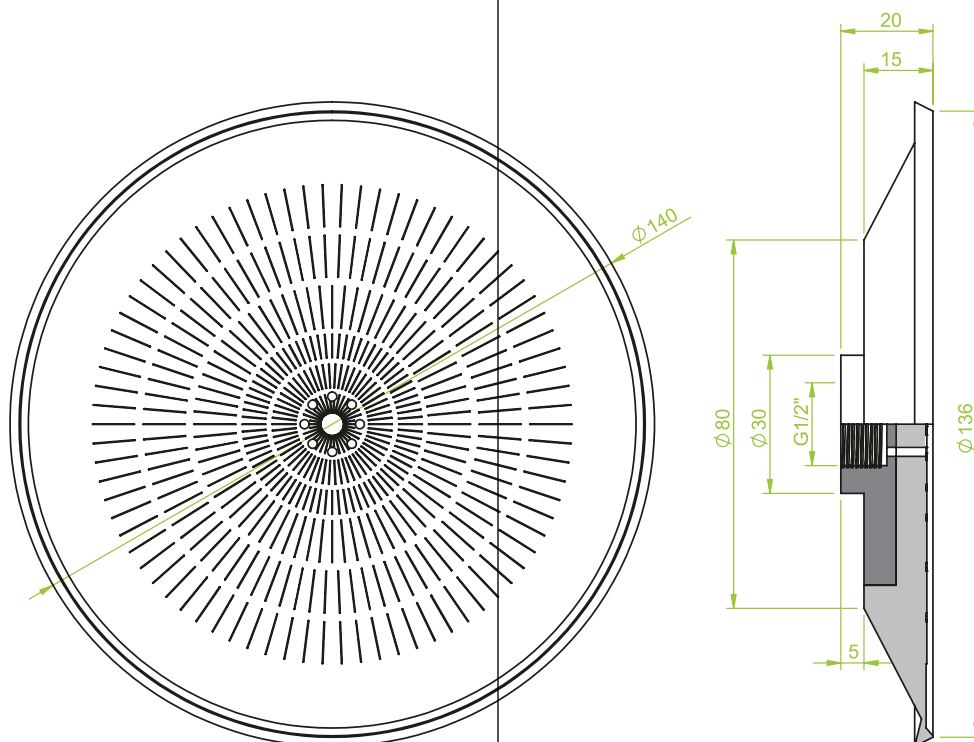
Ø 106



Art.: 13.140.064._

Material | Material
NR

Gewicht | Weight: 2.0 gr
Hub | Stroke: 1.0 mm



Flachsauger | Flat cups

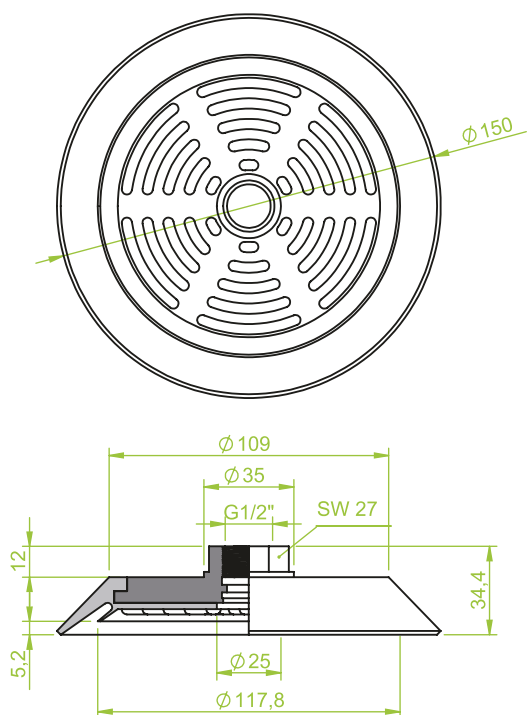
Ø 150



Art.: 13.150.054._

Material | Material
NBR

Gewicht | Weight: 310.0 gr
Hub | Stroke: 5.0 mm



Aluplatte 1/2" IG vulkanisiert

Flachsauger | Flat cups

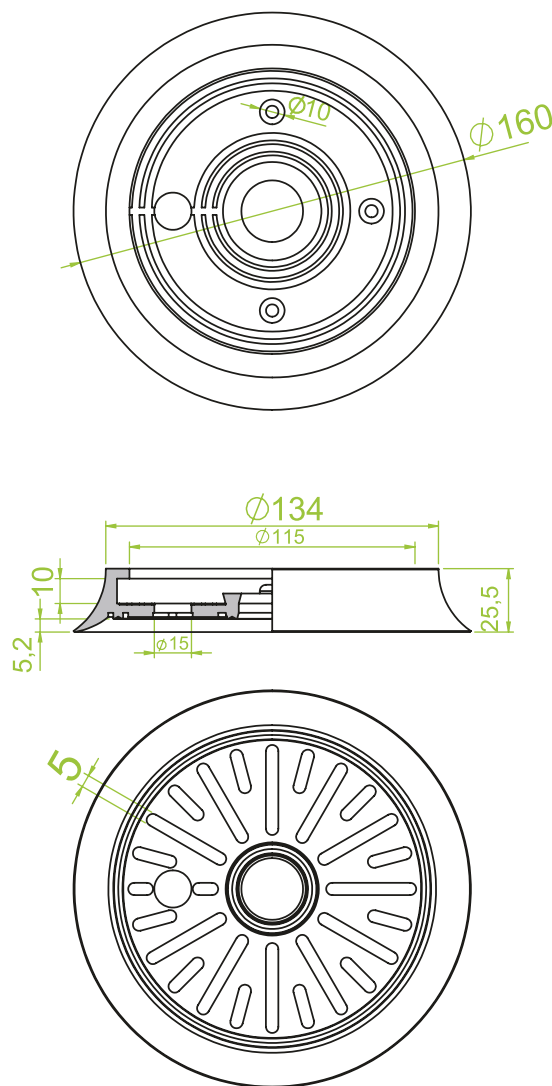
Ø 160



Art.: 10.160.593._

Material | Material
NBR, S

Gewicht | Weight: 148.0 gr
Hub | Stroke: 4.7 mm



Art.: 130.550

Art.: 130.380

Flachsauger | Flat cups

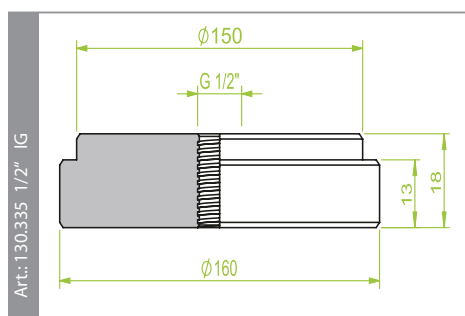
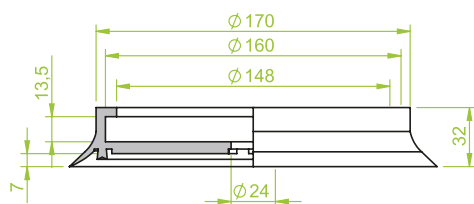
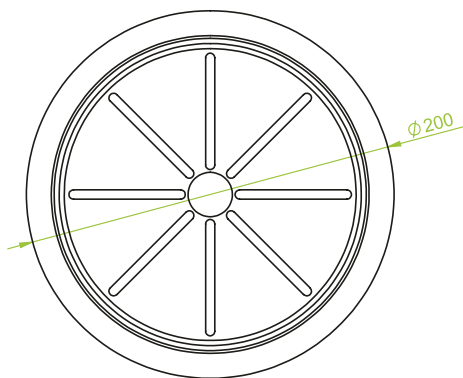
Ø 200



Art.: 10.200.026_

Material | Material
NBR, S, NR

Gewicht | Weight: 200.0 gr
Hub | Stroke: 5.0 mm



Flachsauger | Flat cups

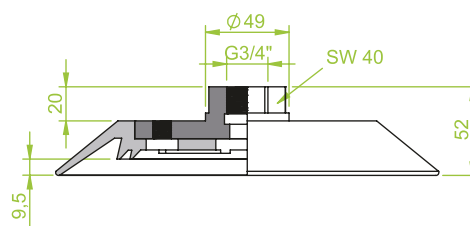
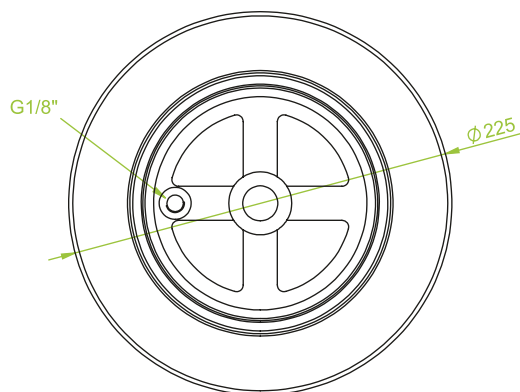
Ø 225



Art.: 13.225.020_

Material | Material
S, NBR

Gewicht | Weight: 840.0 gr
Hub | Stroke: 8.0 mm



Anschlusssteil IG 3/4" vulkanisiert

Flachsauger | Flat cups

Ø 252



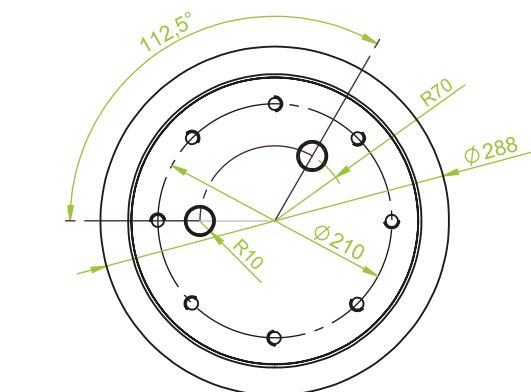
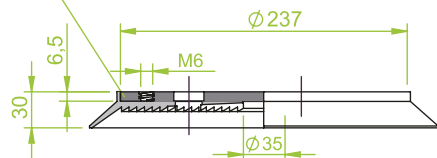
Art.: 15.288.033._

Material | Material

Gewicht | Weight: 2580 gr

S

Hub | Stroke: 12.0 mm

Stahl
Steel

mit Anschlussstück vulkanisiert mit 2 Gewindebohrungen und 8 Befestigungsgewinden

Flachsauger | Flat cups

Ø 288



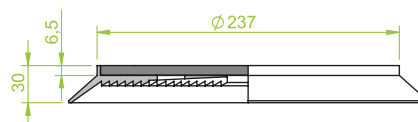
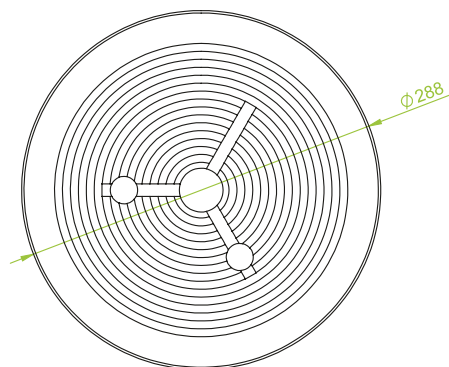
Art.: 15.288.032._

Material | Material

Gewicht | Weight: 2580 gr

NBR

Hub | Stroke: 12.0 mm



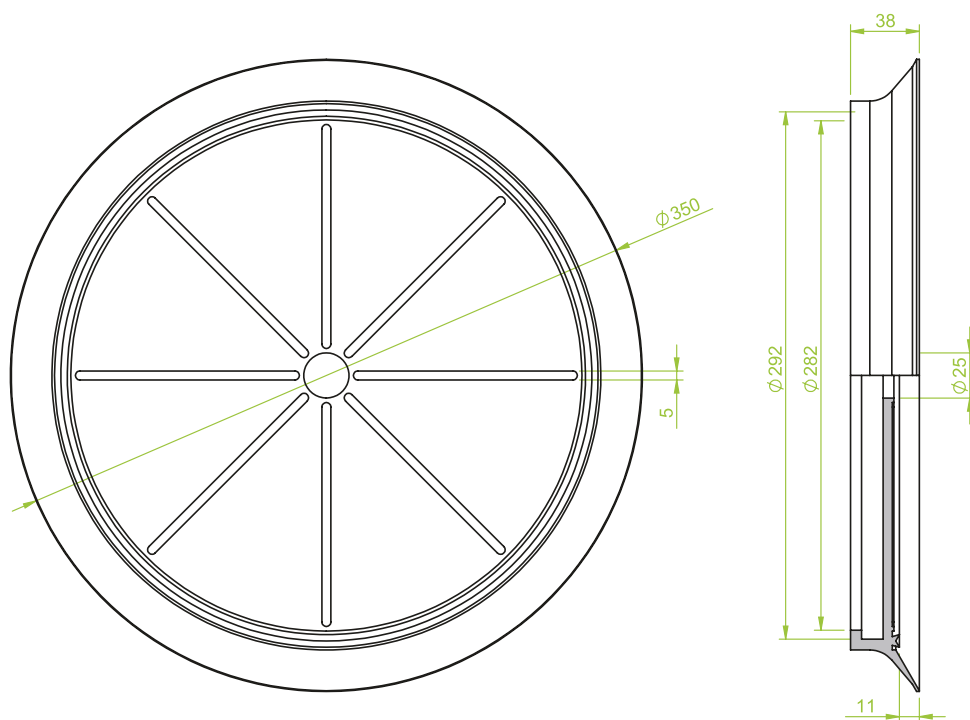
mit Anschlussstück vulkanisiert ,ohne Gewinde



Art.: 10.350.097._

Material | Material

NR



Aluminiumplatte mit 1/2 IG

Art.: 130337

Balgensauger | Bellows cups

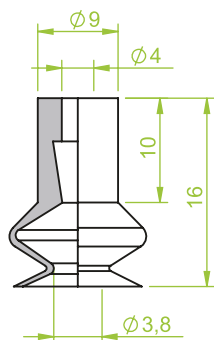
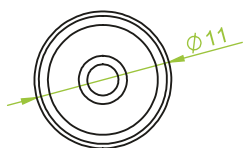
Ø 11



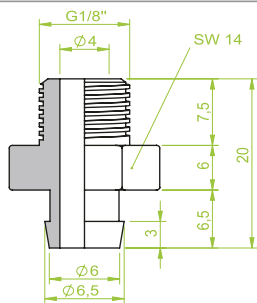
Art.: 210.011.001._

Material | Material
S, NBR, PU

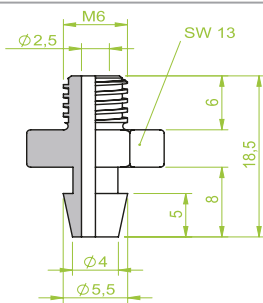
Gewicht | Weight: 1.0 gr
Hub | Stroke: 4.0 mm



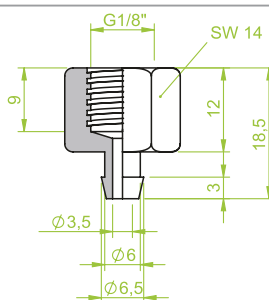
Art.: 130.003 G1/8" AG



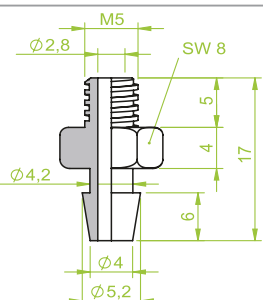
Art.: 130.104 M6 AG



Art.: 130.015 G1/8" IG



Art.: 130.134 M5 AG



Balgensauger | Bellows cups

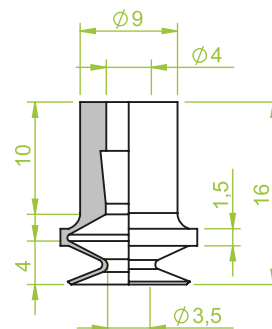
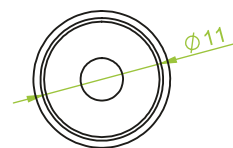
Ø 11



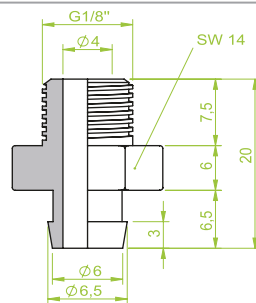
Art.: 210.011.025._

Material | Material
S

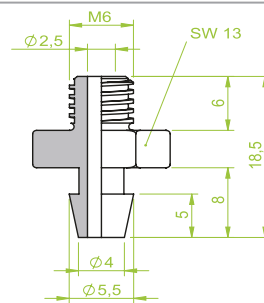
Gewicht | Weight: 1.0 gr
Hub | Stroke: 3.5 mm



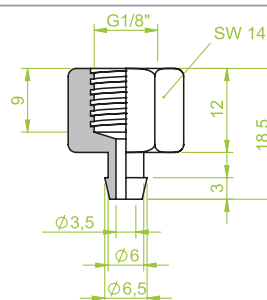
Art.: 130.003 G1/8" AG



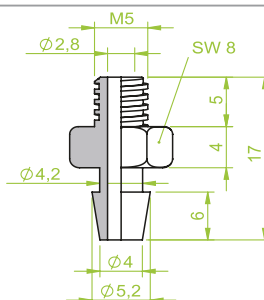
Art.: 130.104 M6 AG



Art.: 130.015 G1/8" IG



Art.: 130.134 M5 AG



Balgensauger | Bellows cups

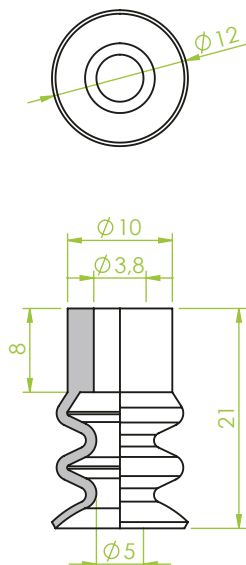
Ø 12



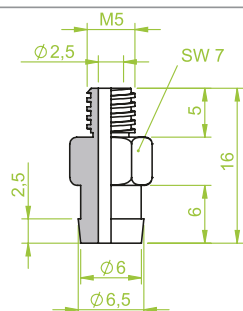
Art.: 220.012.011._

Material | Material
NBR, S, NR, PU

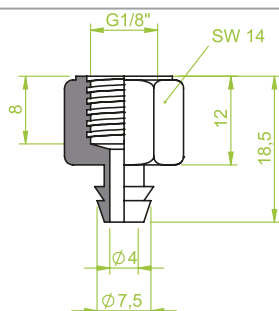
Gewicht | Weight: gr
Hub | Stroke: mm



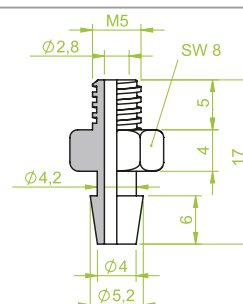
Art.: 130.013



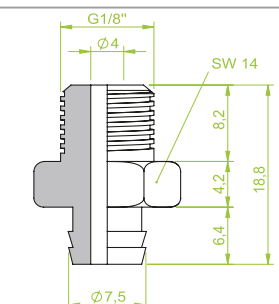
Art.: 130.110



Art.: 130.134



Art.: 130.238



Balgensauger | Bellows cups

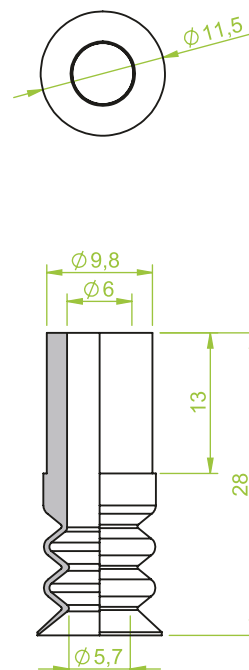
Ø 12



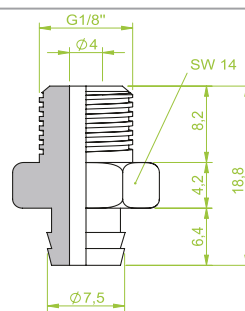
Art.: 220.012.024._

Material | Material
NBR, S

Gewicht | Weight: 1.2 gr
Hub | Stroke: 6.0 mm



Art.: 130.238



Balgensauger | Bellows cups

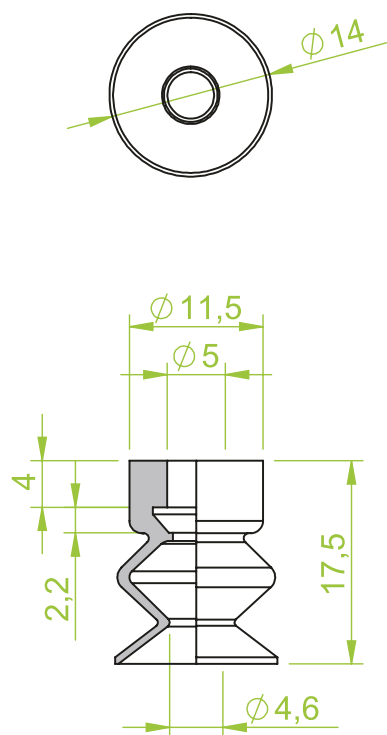
Ø 14



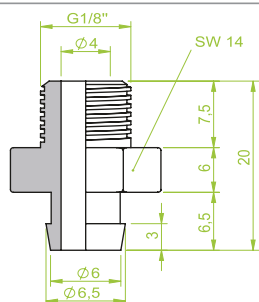
Art.: 210.014.064._

Material | Material
NBR, S, NR, PU, FKM

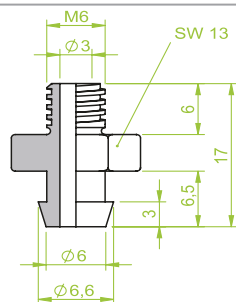
Gewicht | Weight: 1.2 gr
Hub | Stroke: 8.0 mm



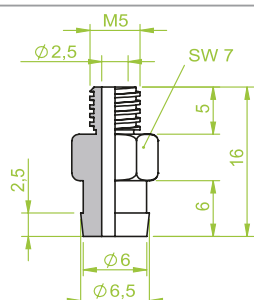
Art.: 130.003 G1/8" AG



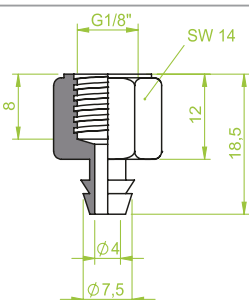
Art.: 130.103 M6 AG



Art.: 130.013 M5 AG



Art.: 130.110 G1/8" IG



Balgensauger | Bellows cups

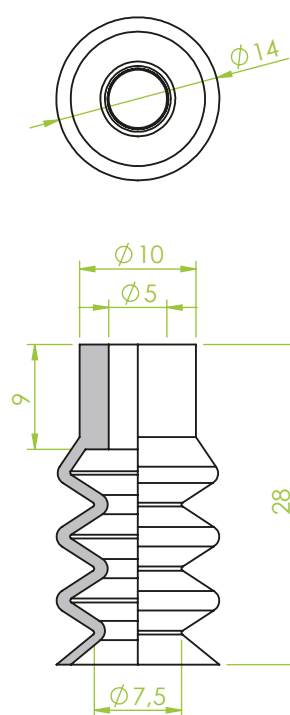
Ø 14



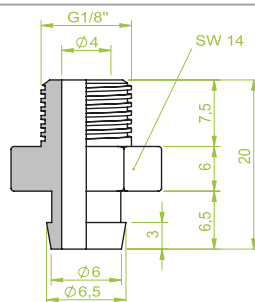
Art.: 230.014.013._

Material | Material
NBR, S

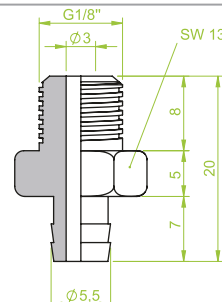
Gewicht | Weight: 1.5 gr
Hub | Stroke: 12.7 mm



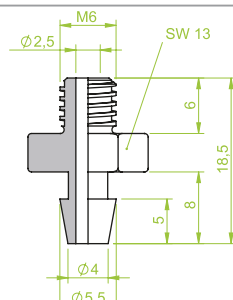
Art.: 130.003



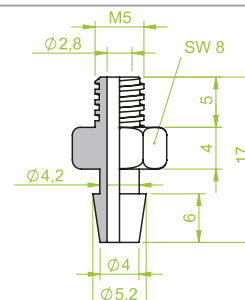
Art.: 130.033



Art.: 130.104



Art.: 130.134



Balgensauger | Bellows cups

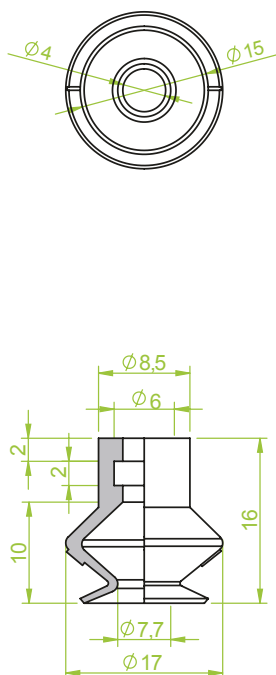
Ø 15



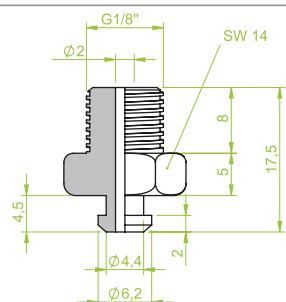
Art.: 210.015.015._

Material | Material
NBR, S, PU, FKM

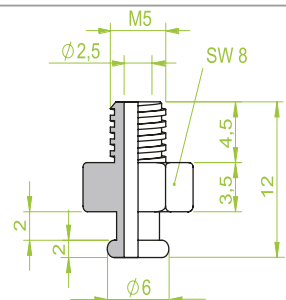
Gewicht | Weight: 1.0 gr
Hub | Stroke: 5.0 mm



Art.: 130.009 G1/8" AG



Art.: 130.301 M5 AG



Balgensauger | Bellows cups

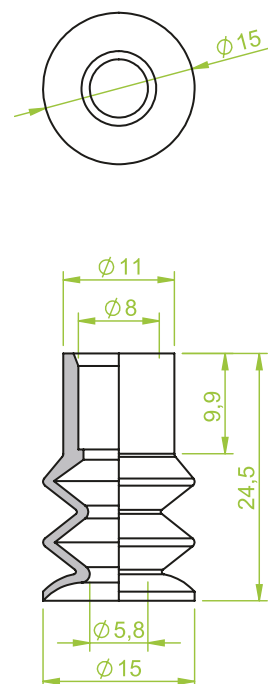
Ø 15



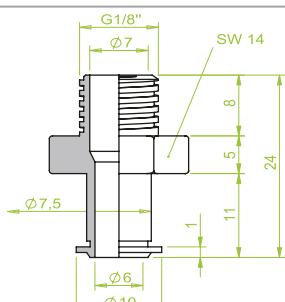
Art.: 220.015.053._

Material | Material
NBR, S

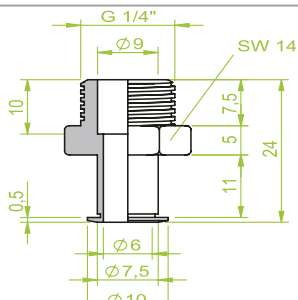
Gewicht | Weight: 1.6 gr
Hub | Stroke: 7.0 mm



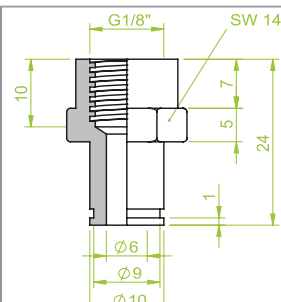
Art.: 130.112 G1/8" AG



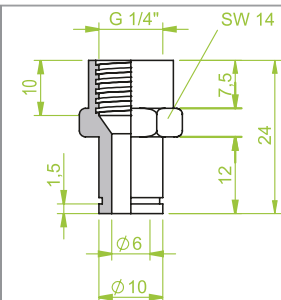
Art.: 130.113 G1/4" AG



Art.: 130.114 G1/8" IG



Art.: 130.178 G1/4" IG



Balgensauger | Bellows cups

Ø 16



Balgensauger | Bellows cups

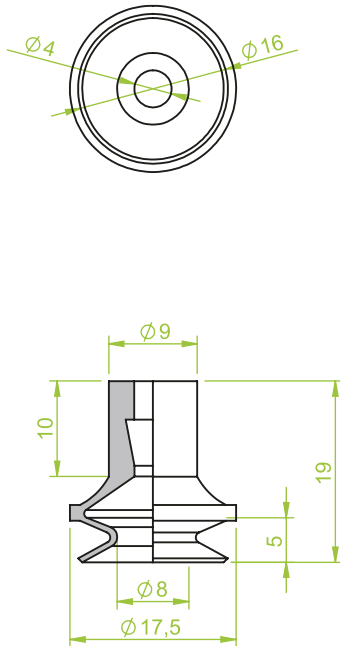
Ø 18



Art.: 210.016.026._

Material | Material
S, NBR, NR, PU

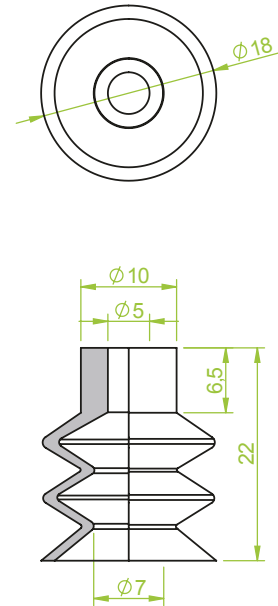
Gewicht | Weight: 1.2 gr
Hub | Stroke: 5.0 mm



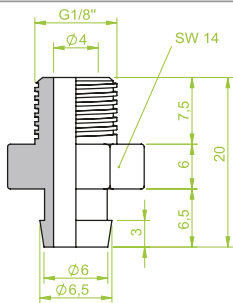
Art.: 220.018.005._

Material | Material
NBR, S, NR, CR, HNBR

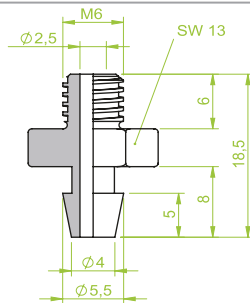
Gewicht | Weight: 2.0 gr
Hub | Stroke: 8.0 mm



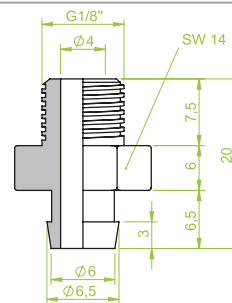
Art.: 130.003 G1/8" AG



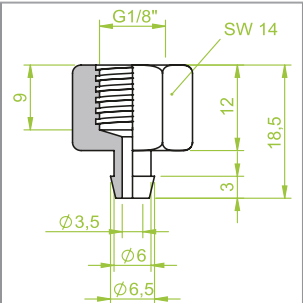
Art.: 130.104 M6 AG



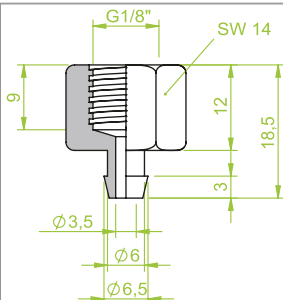
Art.: 130.003 G1/8" IG



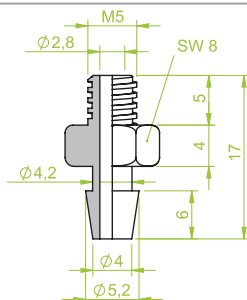
Art.: 130.015 G1/8" IG



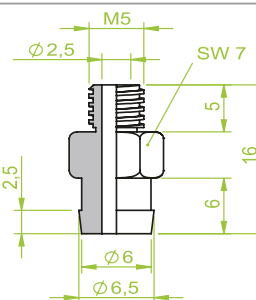
Art.: 130.015 G1/8" IG



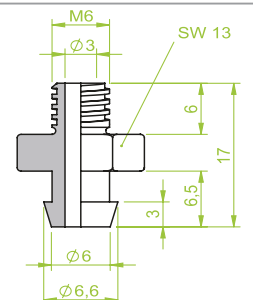
Art.: 130.134 M5 AG



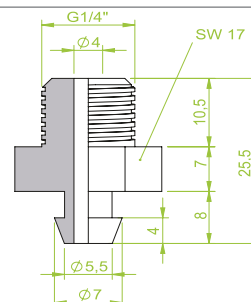
Art.: 130.013 M5 AG



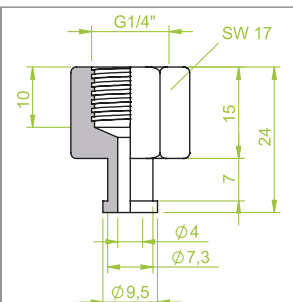
Art.: 130.103 M6 AG



Art.: 130.194 G1/4" AG



Art.: 130.275 G1/4" IG



Balgensauger | Bellows cups

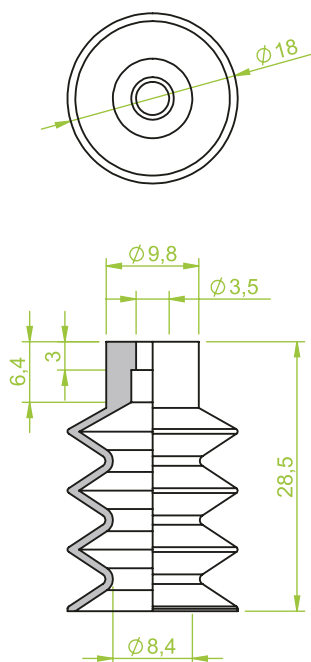
Ø 18



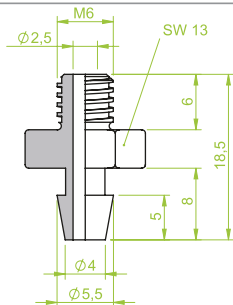
Art.: 230.018.014._

Material | Material
NBR, S

Gewicht | Weight: 2.1 gr
Hub | Stroke: 12.5 mm



Art.: 130.104



Balgensauger | Bellows cups

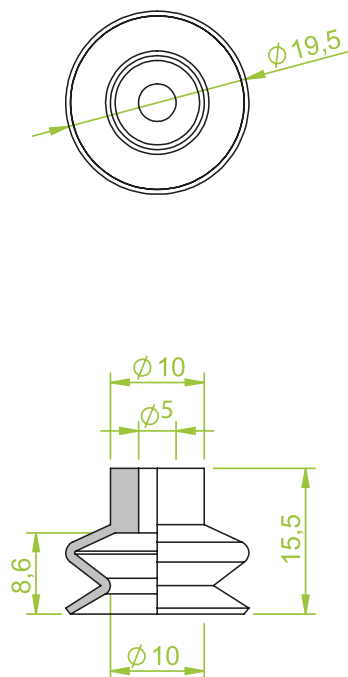
Ø 20



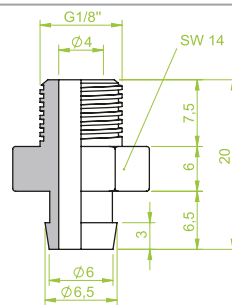
Art.: 210.019.044._

Material | Material
NBR, S, HNBR, NR, PU

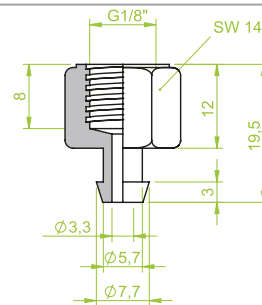
Gewicht | Weight: 1.7 gr
Hub | Stroke: 4.0 mm



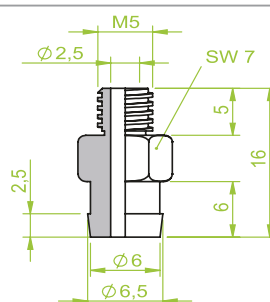
Art.: 130.003 G1/8" AG



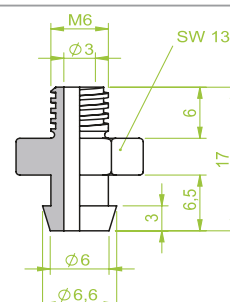
Art.: 130.109 G1/8" IG



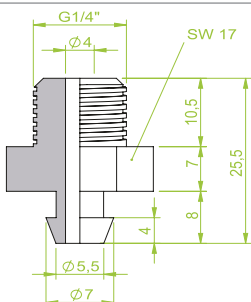
Art.: 130.013 M5 AG



Art.: 130.103 M6 AG



Art.: 130.194 G1/4" AG



Balgensauger | Bellows cups

Ø 20



Balgensauger | Bellows cups

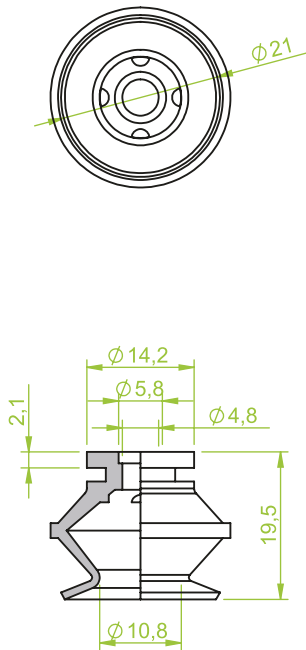
Ø 20



Art.: 210.020.031._

Material | Material
NBR, S, CR, PU, NR

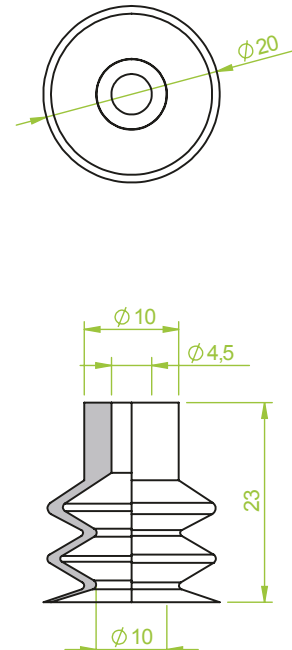
Gewicht | Weight: 2.4 gr
Hub | Stroke: 9.0 mm



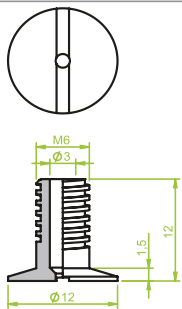
Art.: 220.020.002._

Material | Material
NBR, S, HNBR, PU, NR

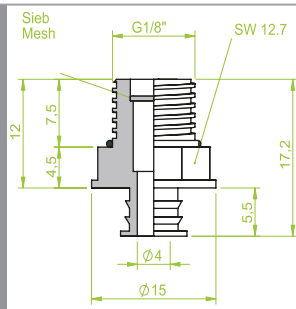
Gewicht | Weight: 2.2 gr
Hub | Stroke: 8.0 mm



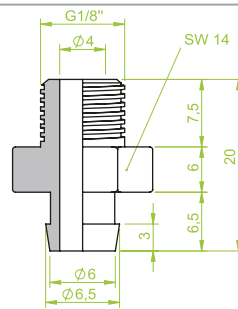
Art.: 130.016 M6 AG



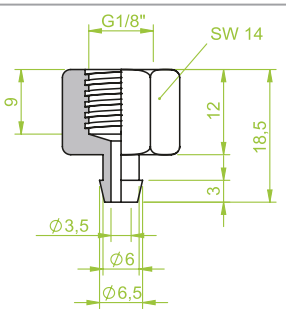
Art.: 130.291 G1/8" AG



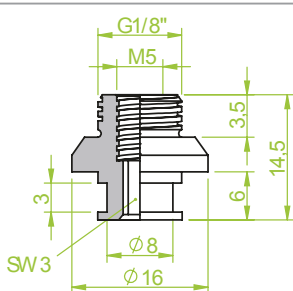
Art.: 130.003 G1/8" AG



Art.: 130.015 G1/8" IG



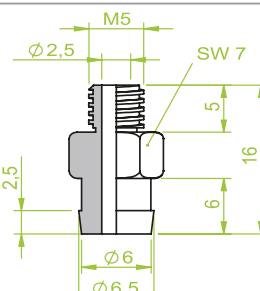
Art.: 130.250 G1/8" AG



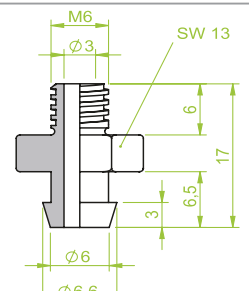
Art.: HR.011

Haltering
14 x 9.7 mm NR Gelb

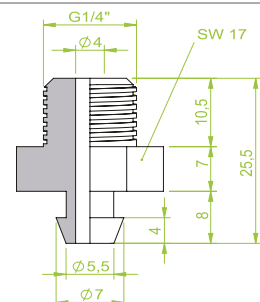
Art.: 130.013 M5 AG



Art.: 130.103 M6 AG



Art.: 130.194 G1/4" AG



Balgensauger | Bellows cups

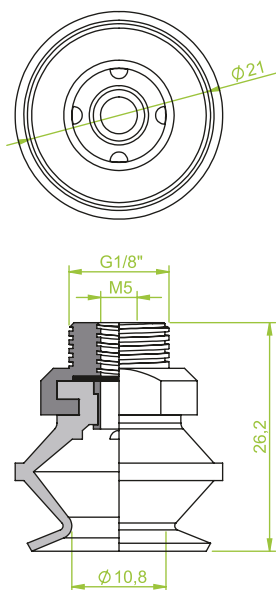
Ø 20



Art.: 211.020.002._

Material | Material
NBR, S, CR

Gewicht | Weight: 5.4 gr
Hub | Stroke: 9.0 mm



Balgensauger | Bellows cups

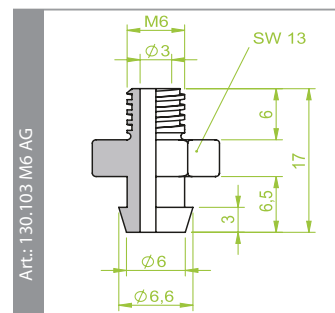
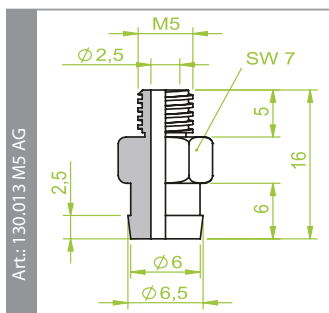
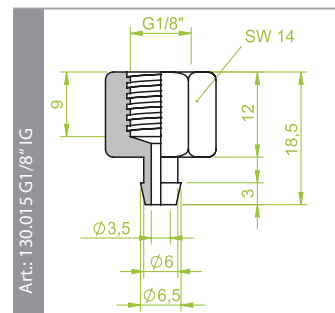
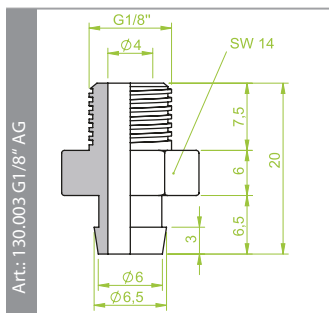
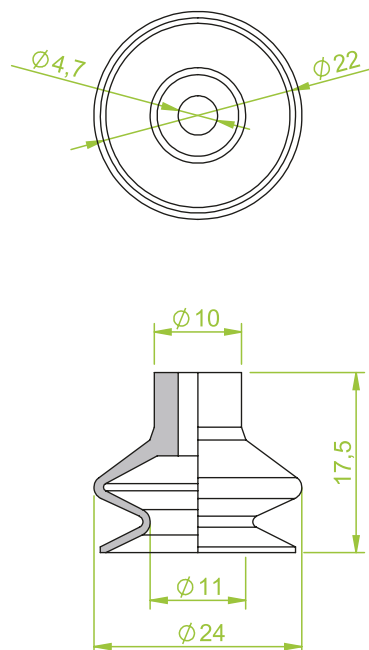
Ø 22



Art.: 210.022.021._

Material | Material
NBR, S, HNBR, NR, PU

Gewicht | Weight: 2.0 gr
Hub | Stroke: 8.0 mm

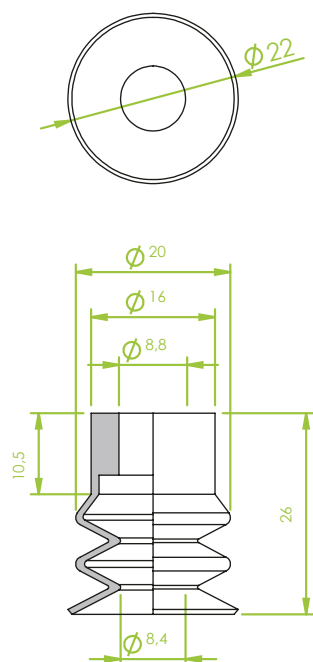


Balgensauger | Bellows cups

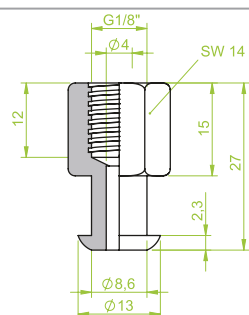
Ø 22



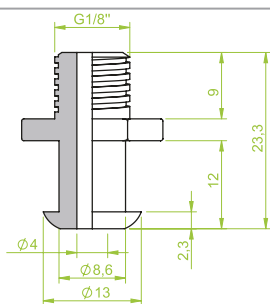
Art.: 220.022.121._

Material | Material
S, PU

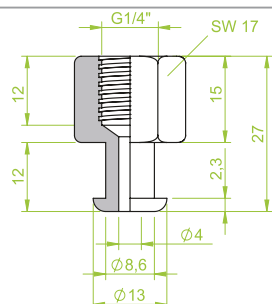
Art.: 130.092



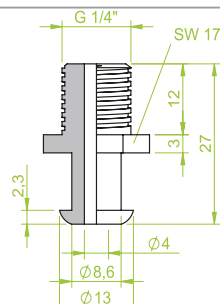
Art.: 130.093



Art.: 130.248



Art.: 130.249

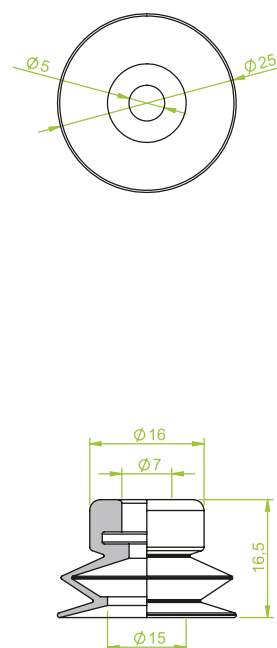


Balgensauger | Bellows cups

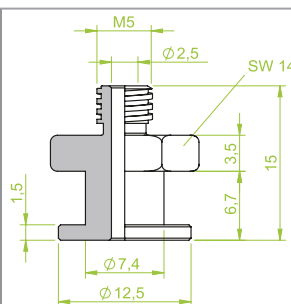
Ø 25



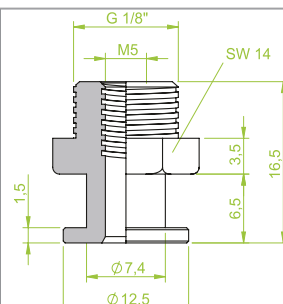
Art.: 210.025.144._

Material | Material
S, PUGewicht | Weight: 2.5 gr
Hub | Stroke: 6.0 mm

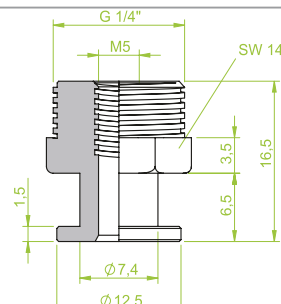
Art.: 130.604



Art.: 130.605



Art.: 130.606



Balgensauger | Bellows cups

Ø 25

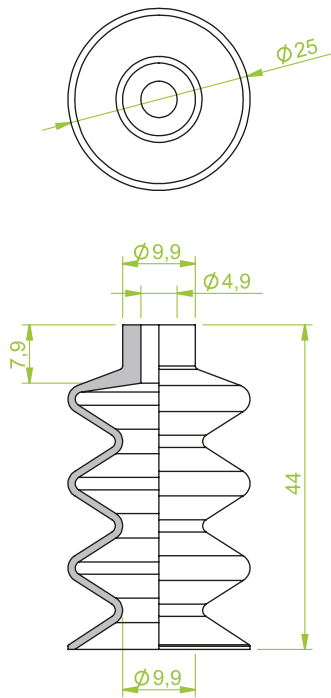


Balgensauger | Bellows cups

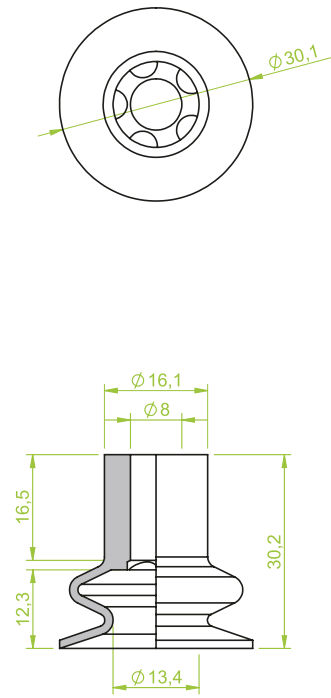
Ø 30



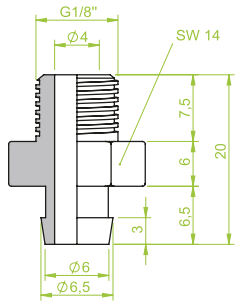
Art.: 230.025.001._

Material | Material
NBR, SGewicht | Weight: 5.6 gr
Hub | Stroke: 24.0 mm

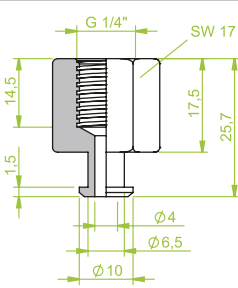
Art.: 210.030.049._

Material | Material
SGewicht | Weight: 2.9 gr
Hub | Stroke: 11.0 mm

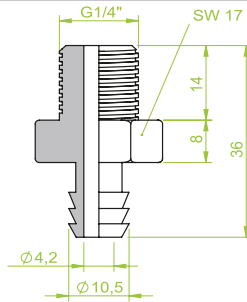
Art.: 130.003 G1/8" AG



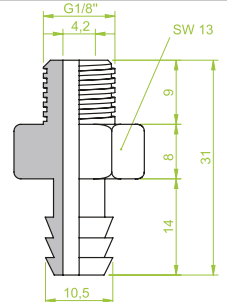
Art.: 130.066 G1/4" IG



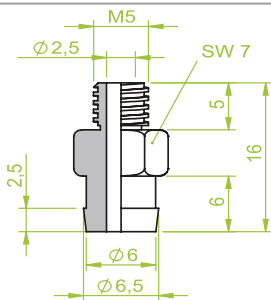
Art.: 130.208 G1/4" AG



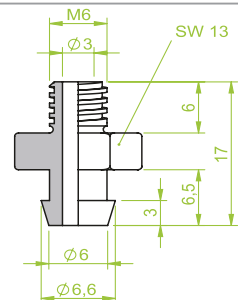
Art.: 130.132



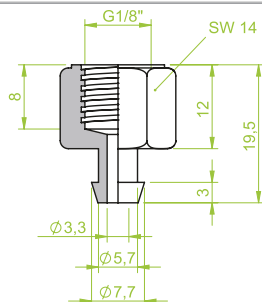
Art.: 130.013 M5 AG



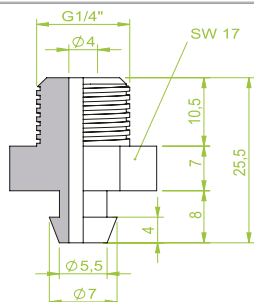
Art.: 130.103 M6 AG



Art.: 130.109 G1/8" IG



Art.: 130.194 G1/4" AG

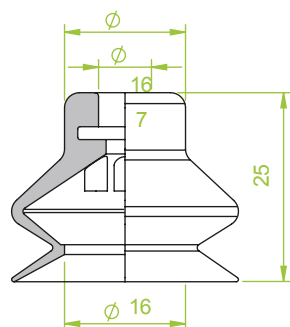
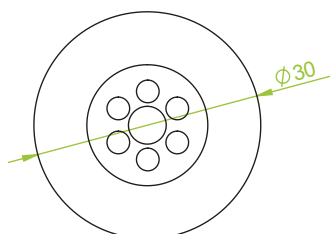


Balgensauger | Bellows cups

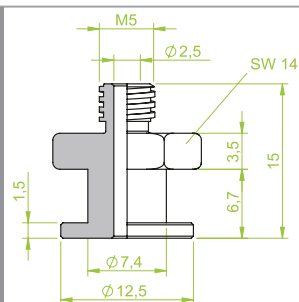
Ø 30



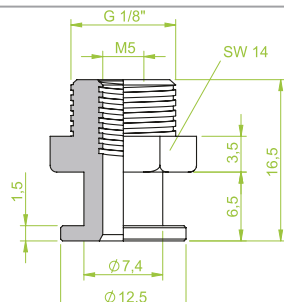
Art.: 210.030.146._

Material | Material
S, PUGewicht | Weight: 4.8 gr
Hub | Stroke: 10.0 mm

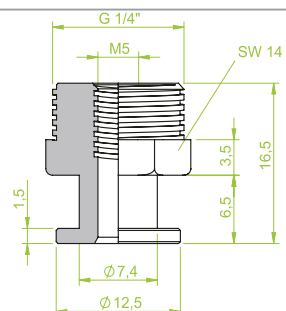
Art.: 130.604



Art.: 130.605



Art.: 130.606

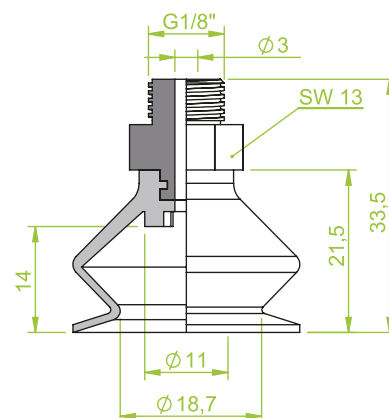
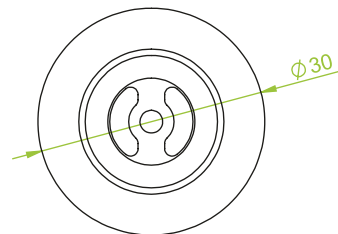


Balgensauger | Bellows cups

Ø 30



Art.: 214.030.013._

Material | Material
NBR, S, PUGewicht | Weight: 7.0 gr
Hub | Stroke: 12.0 mm

Balgensauger | Bellows cups

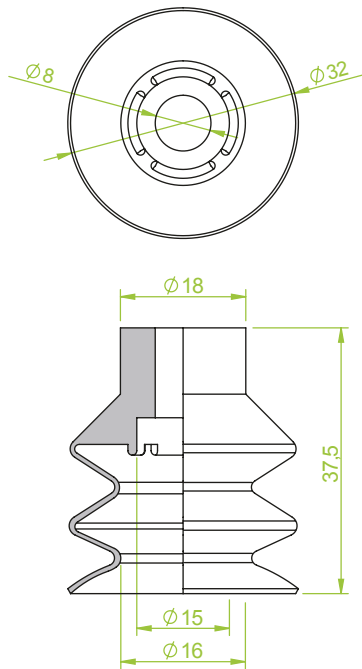
Ø 32



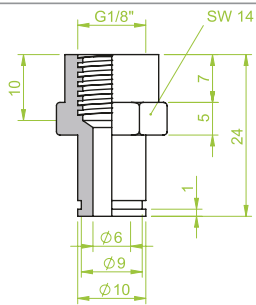
Art.: 220.032.003._

Material | Material
NBR, S, NR, PU, HNBR

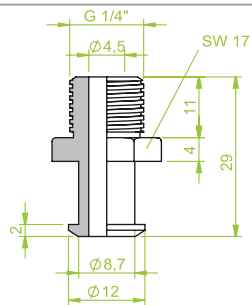
Gewicht | Weight: 10.0 gr
Hub | Stroke: 13.0 mm



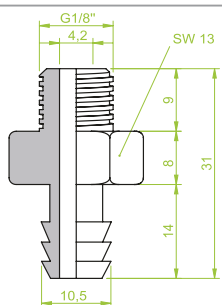
Art.: 130.114 G1/8" IG



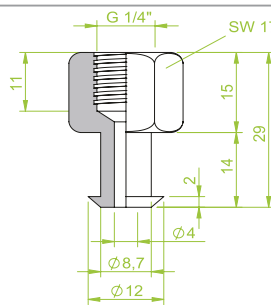
Art.: 130.190 G1/4" AG



Art.: 130.132 G1/8" AG



Art.: 130.192 G1/4" IG



Balgensauger | Bellows cups

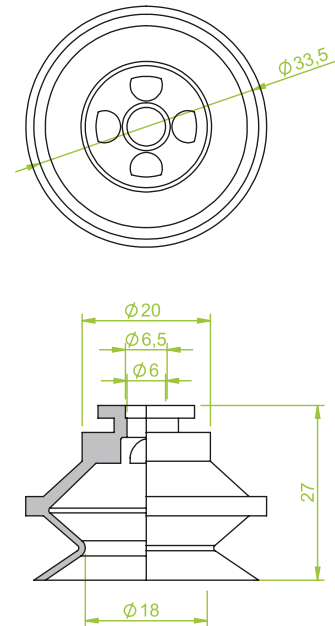
Ø 33



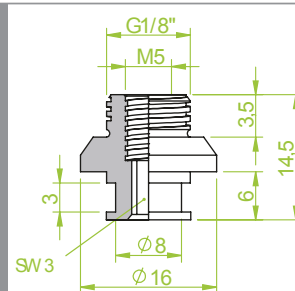
Art.: 210.033.019._

Material | Material
NBR, S, CR, PU

Gewicht | Weight: 6.5 gr
Hub | Stroke: 9.0 mm



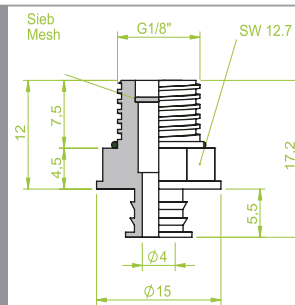
Art.: 130.250 G1/8" AG



Art.: HR.011

Haltering
14 x 9.7 mm NR Gelb

Art.: 130.291 G1/8" AG



Balgensauger | Bellows cups

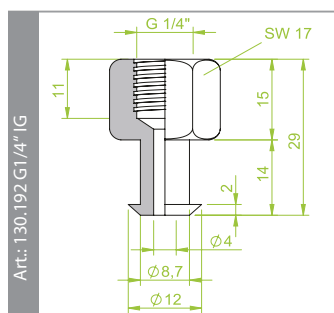
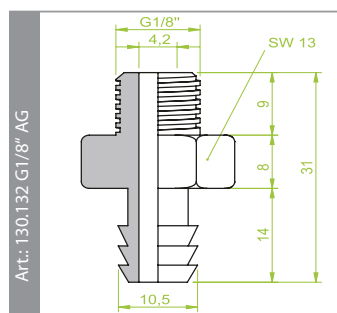
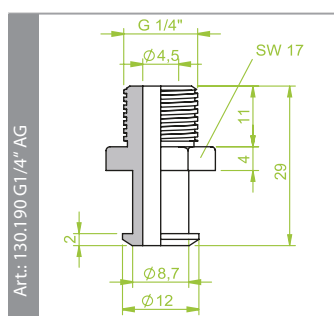
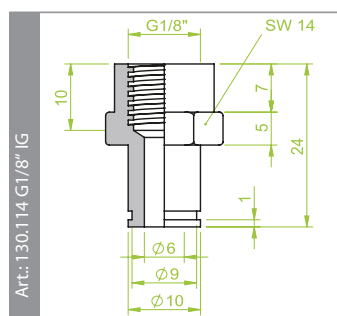
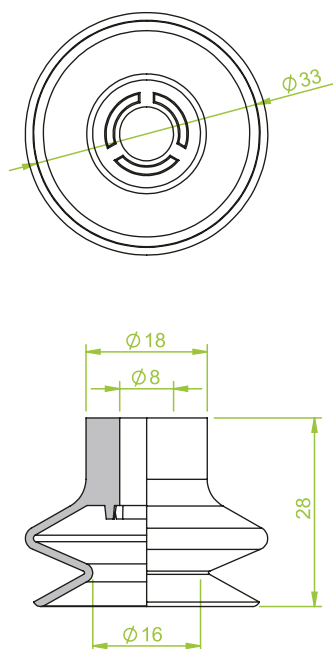
Ø 33



Art.: 210.033.022._

Material | Material
NBR, S, NR

Gewicht | Weight: 7.0 gr
Hub | Stroke: 12.0 mm



Balgensauger | Bellows cups

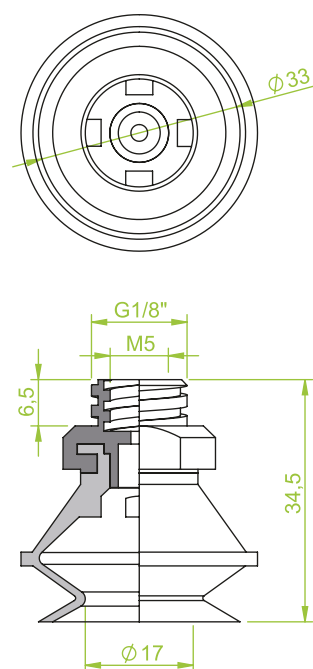
Ø 33



Art.: 211.033.003._

Material | Material
NBR, S

Gewicht | Weight: 8.0 gr
Hub | Stroke: 9.0 mm



Balgensauger | Bellows cups

Ø 40



Balgensauger | Bellows cups

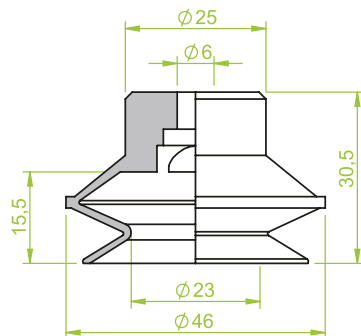
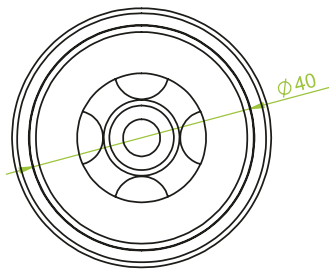
Ø 40



Art.: 210.040.056_

Material | Material
NBR, S, PU, NR

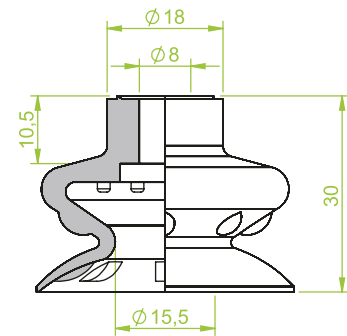
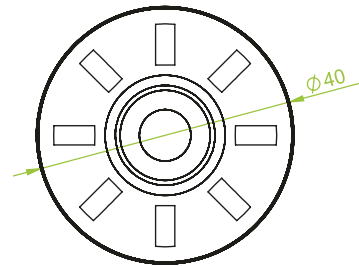
Gewicht | Weight: 15.0 gr
Hub | Stroke: 10.0 mm



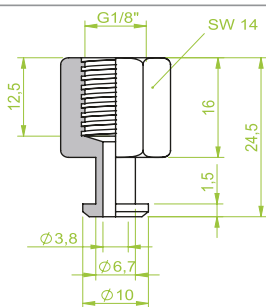
Art.: 210.040.066_

Material | Material
NBR, S, NR, PU

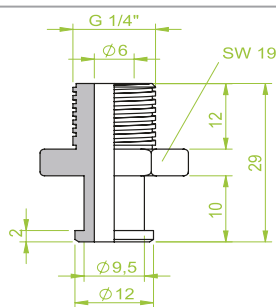
Gewicht | Weight: 13.5 gr
Hub | Stroke: 13.0 mm



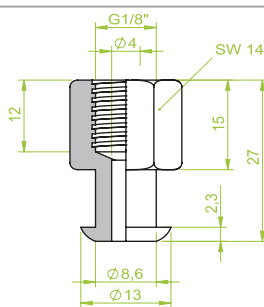
Art.: 130.019 G1/8" IG



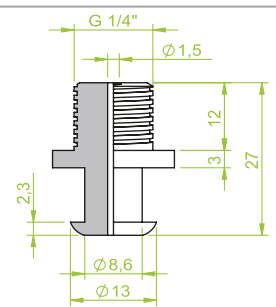
Art.: 130.274 G1/4" AG



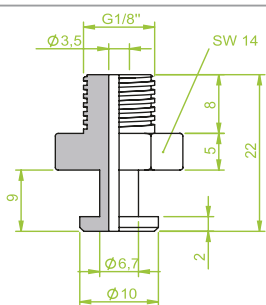
Art.: 130.092 G1/8" IG



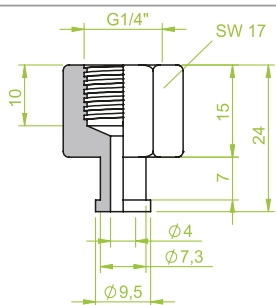
Art.: 130.099 G1/4" AG



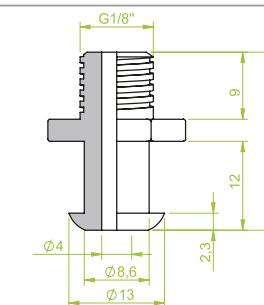
Art.: 130.030 G1/8" AG



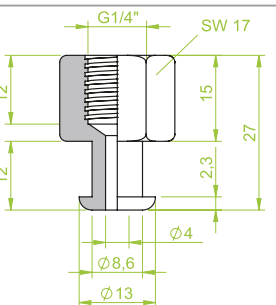
Art.: 130.275 G1/4" IG



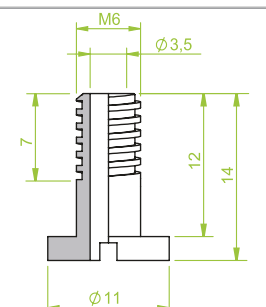
Art.: 130.093 G1/8" AG



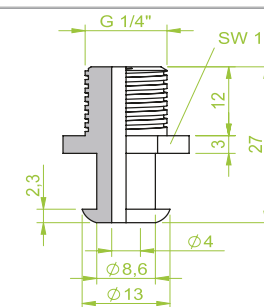
Art.: 130.248 G1/4" IG



Art.: 130.312 M6 AG

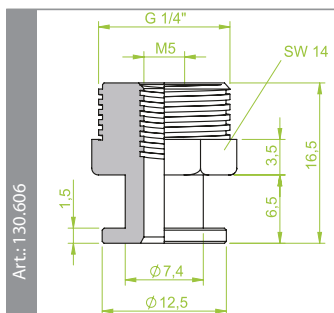
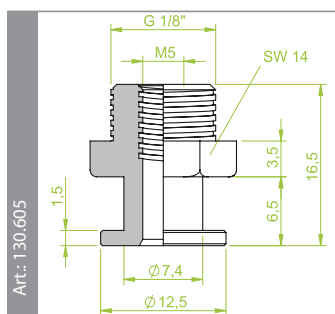
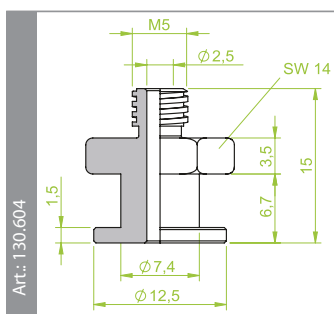
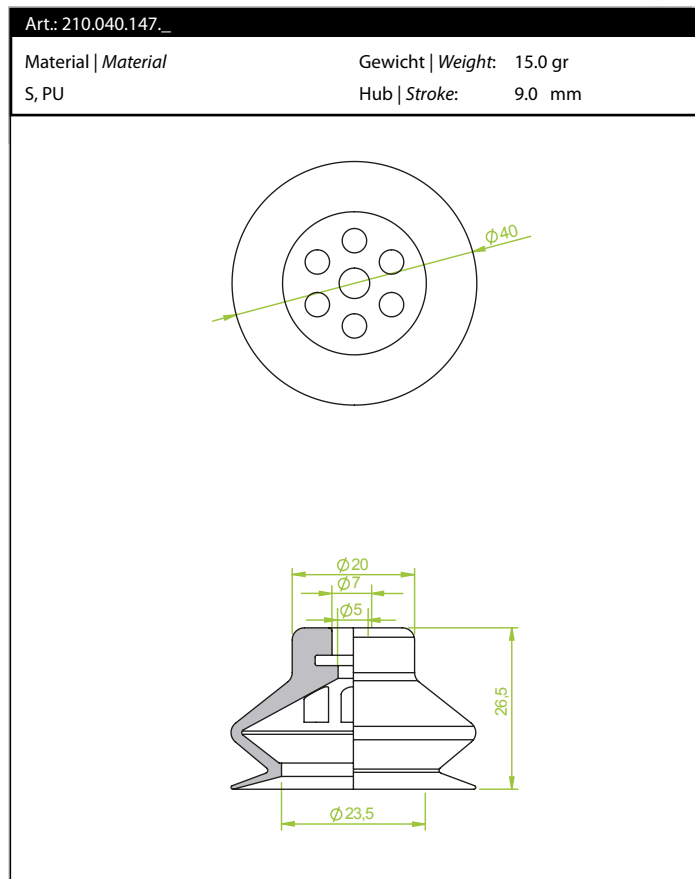


Art.: 130.249 G1/4" AG



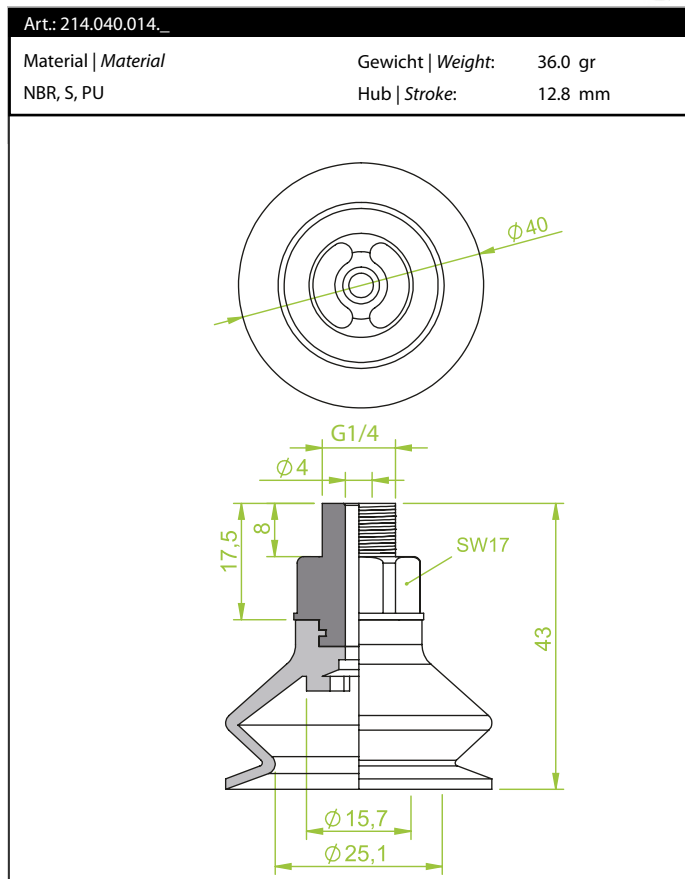
Balgensauger | Bellows cups

Ø 40



Balgensauger | Bellows cups

Ø 40



Balgensauger | Bellows cups

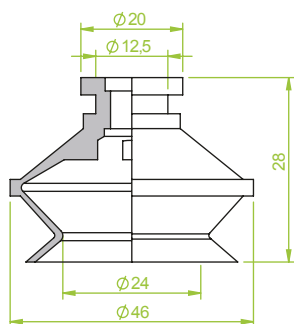
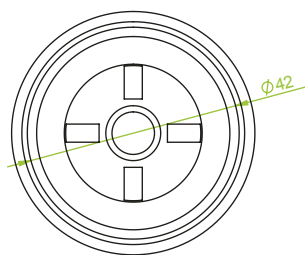
Ø 42



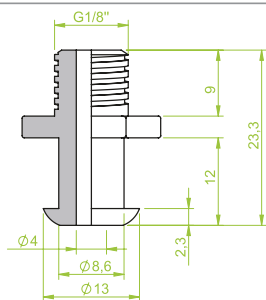
Art.: 210.042.020._

Material | Material
NBR, S, CR, PU

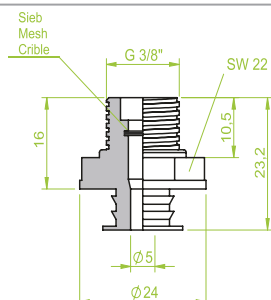
Gewicht | Weight: 10.0 gr
Hub | Stroke: 9.0 mm



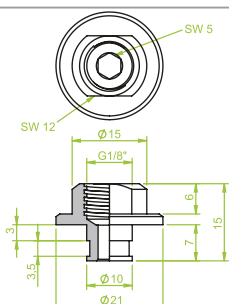
Art.: 130.093 G1/8" AG



Art.: 130.295 G3/8" AG



Art.: 130.251 G1/8" IG



Art.: HR.012

Haltering
20x13mm Silikon blau

Balgensauger | Bellows cups

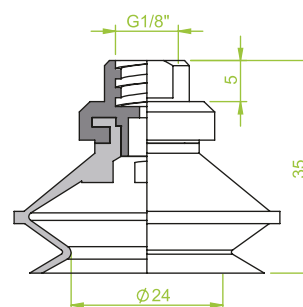
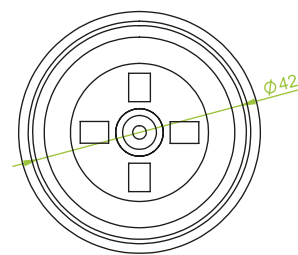
Ø 42



Art.: 211.042.004._

Material | Material
NBR, S, CR

Gewicht | Weight: 18.0 gr
Hub | Stroke: 9.0 mm



Balgensauger | Bellows cups

Ø 43



Balgensauger | Bellows cups

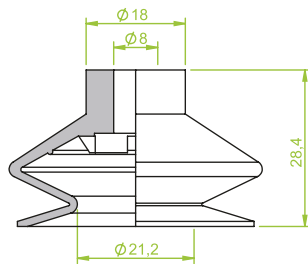
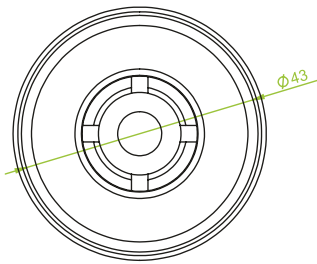
Ø 43



Art.: 210.043.005_

Material | Material
NBR, S, NR, CR, PU

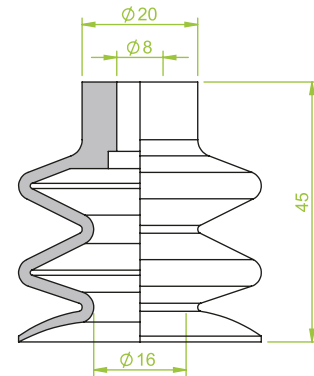
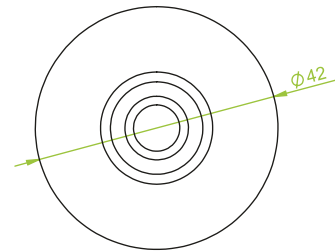
Gewicht | Weight: 10.0 gr
Hub | Stroke: 12.0 mm



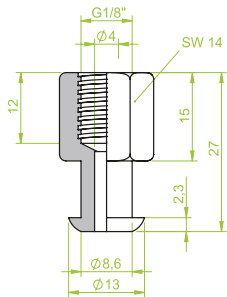
Art.: 220.043.004_

Material | Material
NBR, S, NR, CR, PU

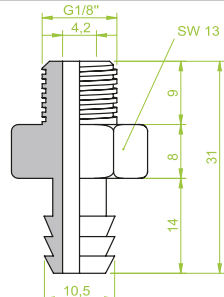
Gewicht | Weight: 18.0 gr
Hub | Stroke: 19.0 mm



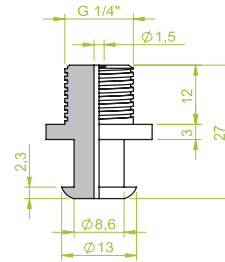
Art.: 130.092 G1/8" IG



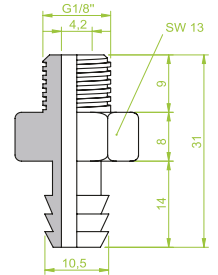
Art.: 130.132 G1/8" AG



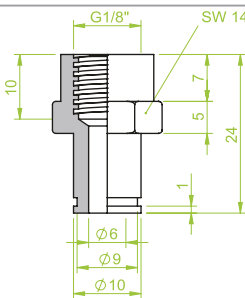
Art.: 130.099 G1/4" AG



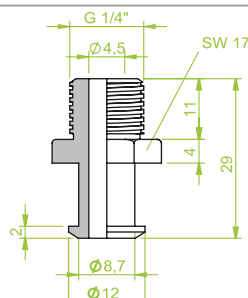
Art.: 130.132 G1/8" AG



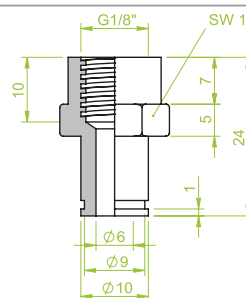
Art.: 130.114 G1/8" IG



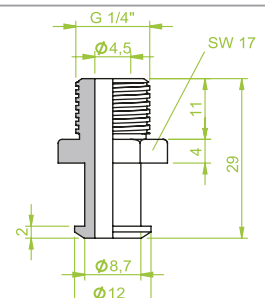
Art.: 130.190 G1/4" AG



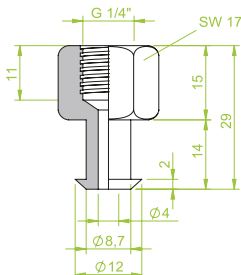
Art.: 130.114 G1/8" IG



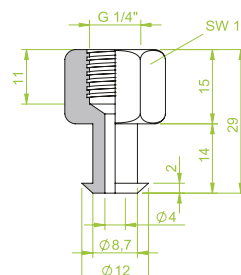
Art.: 130.190 G1/4" AG



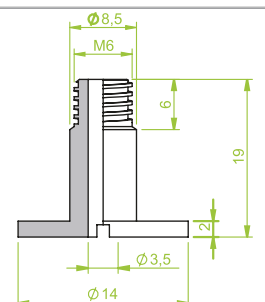
Art.: 130.192 G1/4" IG



Art.: 130.192 G1/4" IG



Art.: 130.315 M6 AG



Balgensauger | Bellows cups

Ø 48



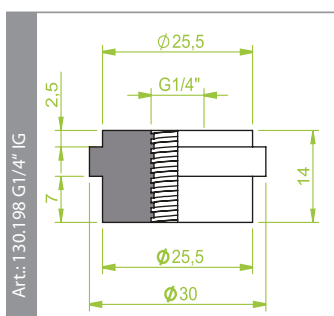
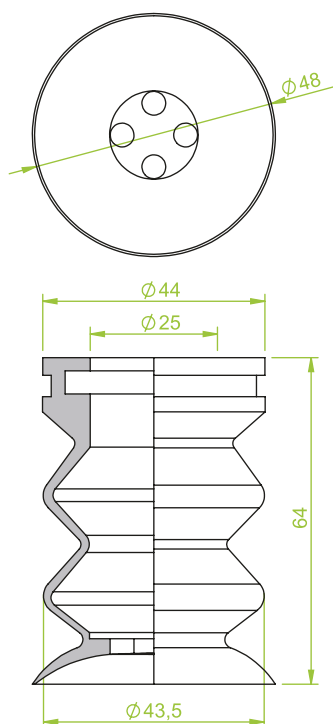
Art.: 220.048.095._

Material | Material

Gewicht | Weight: 33.0 gr

S

Hub | Stroke: 25.0 mm



Balgensauger | Bellows cups

Ø 50



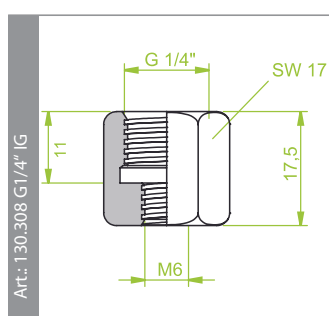
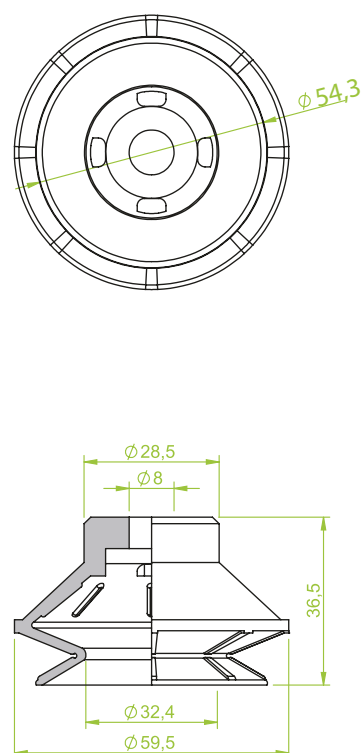
Art.: 210.050.057._

Material | Material

Gewicht | Weight: 23.0 gr

NBR, S, PU, NR, CR

Hub | Stroke: 10.0 mm



Balgensauger | Bellows cups

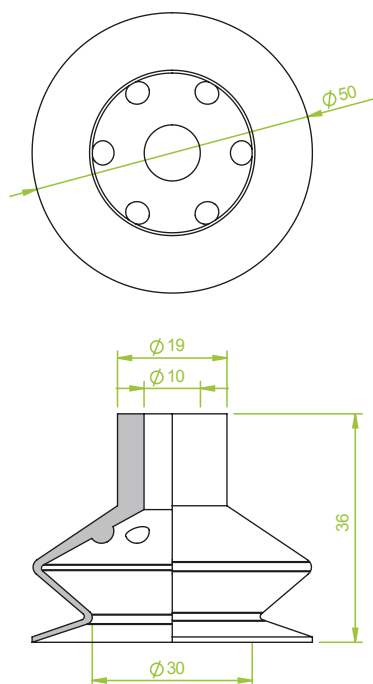
Ø 50



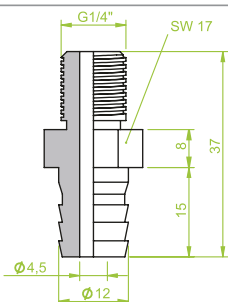
Art.: 210.050.118._

Material | Material
NBR, NR

Gewicht | Weight: 20.0 gr
Hub | Stroke: 10.0 mm



Art.: 130.044 G1/4" AG



Balgensauger | Bellows cups

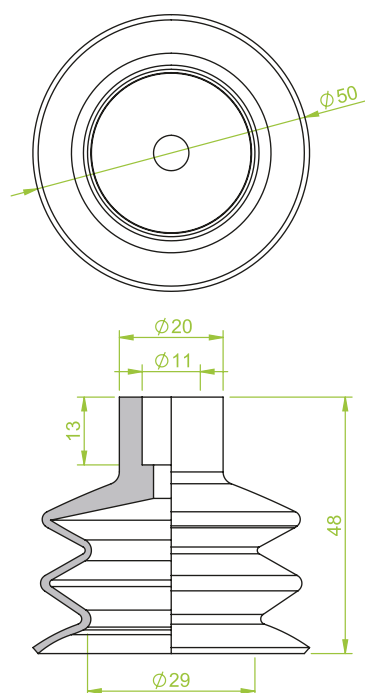
Ø 50



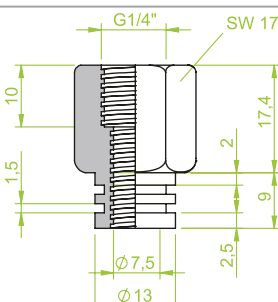
Art.: 220.050.038._

Material | Material
NBR, S, NR

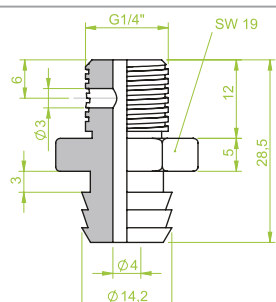
Gewicht | Weight: 20.0 gr
Hub | Stroke: 18.0 mm



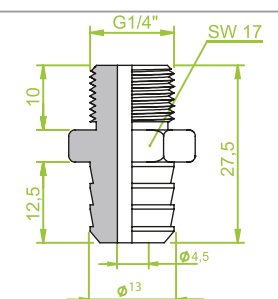
Art.: 130.098



Art.: 130.101



Art.: 130.609



Balgensauger | Bellows cups

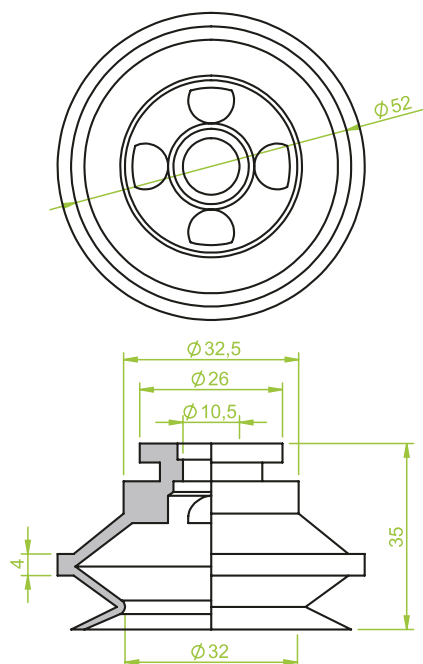
Ø 52



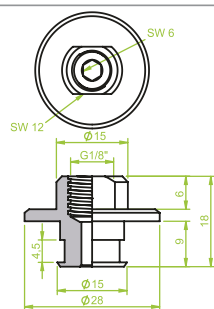
Art.: 210.052.032._

Material | Material
NBR, S, CR, PU, NR

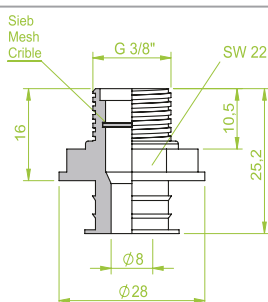
Gewicht | Weight: 22.0 gr
Hub | Stroke: 12.0 mm



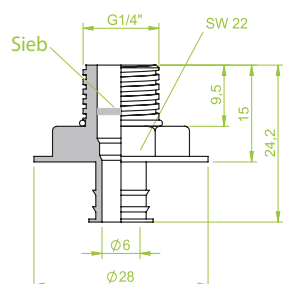
Art.: 130.252 G1/8" IG



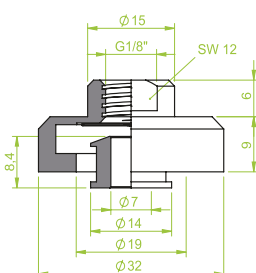
Art.: 130.296 G3/8" AG



Art.: 130.294 G1/4" AG



Art.: 130.137 1/8" IG



Art.: HR013

Haltering
26x19mm, NR gelb

Balgensauger | Bellows cups

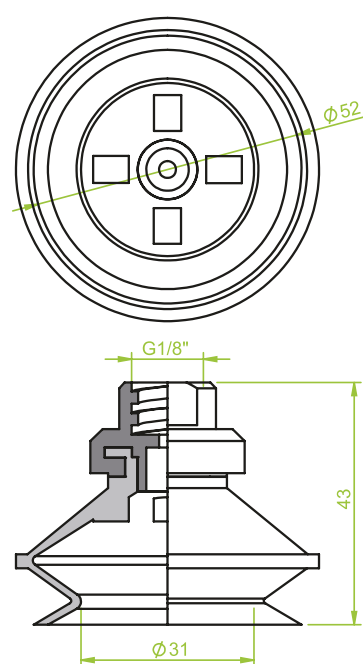
Ø 52



Art.: 211.052.005._

Material | Material
NBR, S, CR

Gewicht | Weight: 32.0 gr
Hub | Stroke: 12.0 mm



Balgensauger | Bellows cups

Ø 53



Balgensauger | Bellows cups

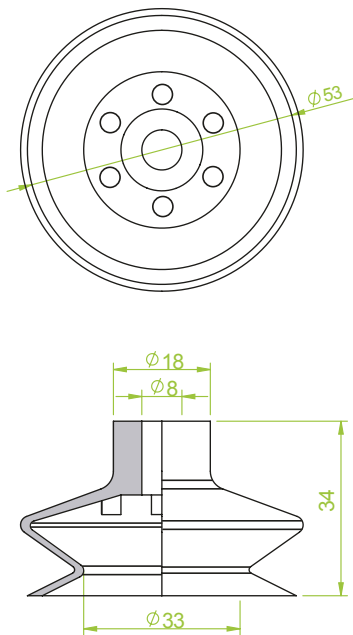
Ø 60



Art.: 210.053.017._

Material | Material
NBR, S, NR, PU, CR

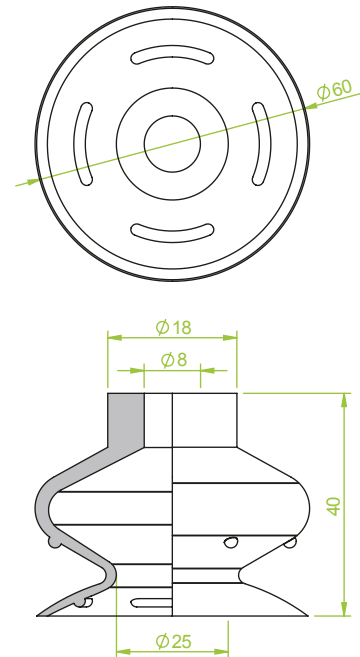
Gewicht | Weight: 19.0 gr
Hub | Stroke: 11.0 mm



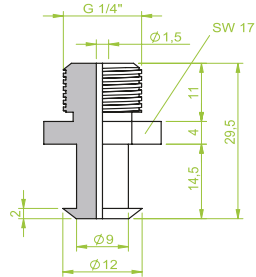
Art.: 210.060.023._

Material | Material
NBR, S, NR

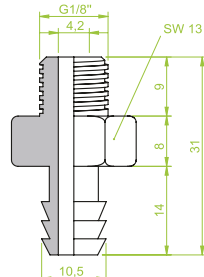
Gewicht | Weight: 34.0 gr
Hub | Stroke: 15.0 mm



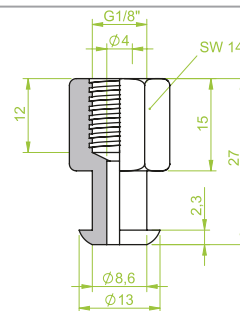
Art.: 130.002 G1/4" AG



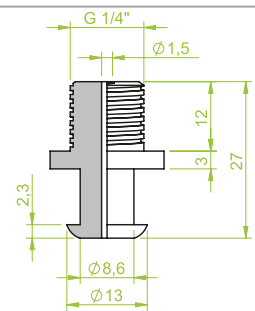
Art.: 130.132 G1/8" AG



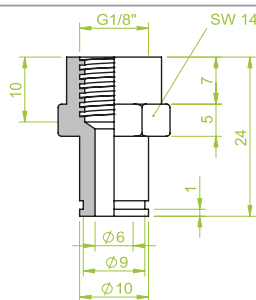
Art.: 130.092 G1/8" IG



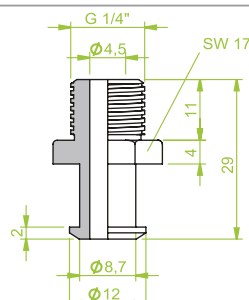
Art.: 130.099 G1/4" AG



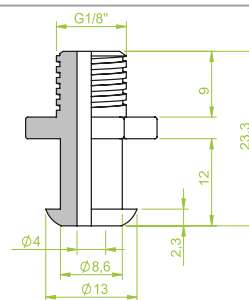
Art.: 130.114 G1/8" IG



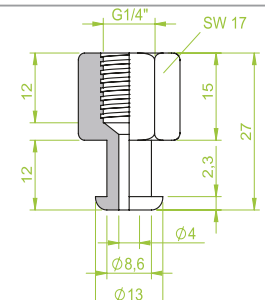
Art.: 130.190 G1/4" AG



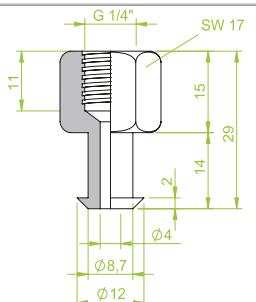
Art.: 130.093 G1/8" AG



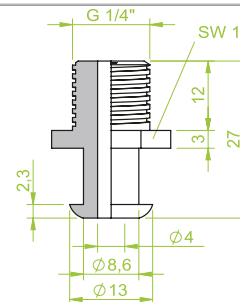
Art.: 130.248 G1/4" IG



Art.: 130.192 G1/4" IG



Art.: 130.249 G1/4" AG

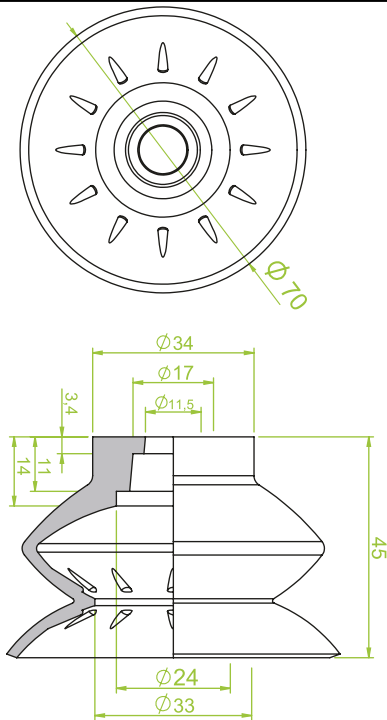


Balgensauger | Bellows cups

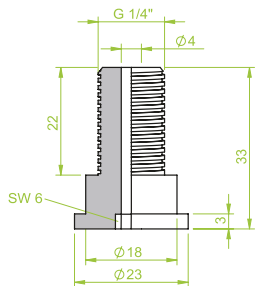
Ø 70



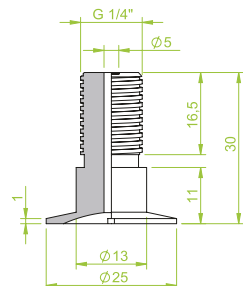
Art.: 210.070.105_

Material | Material
NBR, SGewicht | Weight: 40,0 gr
Hub | Stroke: 20,0 mm

Art.: 130.145 G1/4" AG



Art.: 130.184

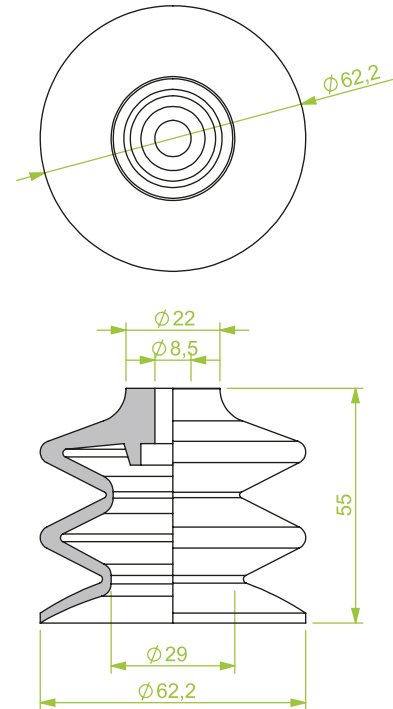


Balgensauger | Bellows cups

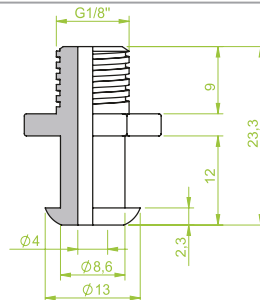
Ø 62



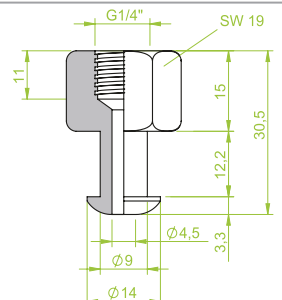
Art.: 220.062.035_

Material | Material
NBR, S, PU, NRGewicht | Weight: 50,0 gr
Hub | Stroke: 25,0 mm

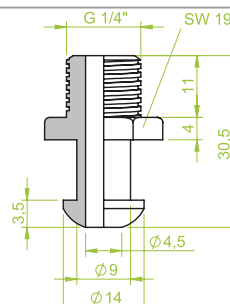
Art.: 130.093 G1/8" AG



Art.: 130.282 G1/4" IG



Art.: 130.281 G1/4" AG



Balgensauger | Bellows cups

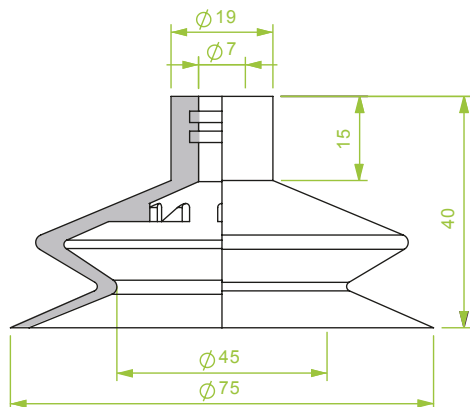
Ø 75



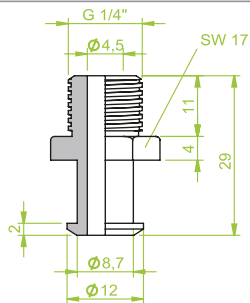
Art.: 210.075.051._

Material | Material
NBR, S

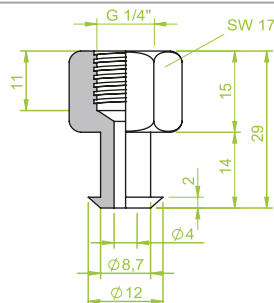
Gewicht | Weight: 20.0 gr
Hub | Stroke: 17.0 mm



Art.: 130.190 G1/4" AG



Art.: 130.192 G1/4" IG



Balgensauger | Bellows cups

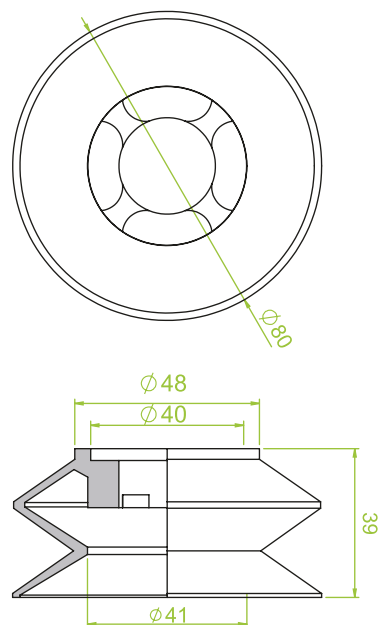
Ø 80



Art.: 215.080.003._

Material | Material
SBR, PU

Gewicht | Weight: 60.0 gr
Hub | Stroke: 23.0 mm



Art.: 130.334

Balgensauger | Bellows cups

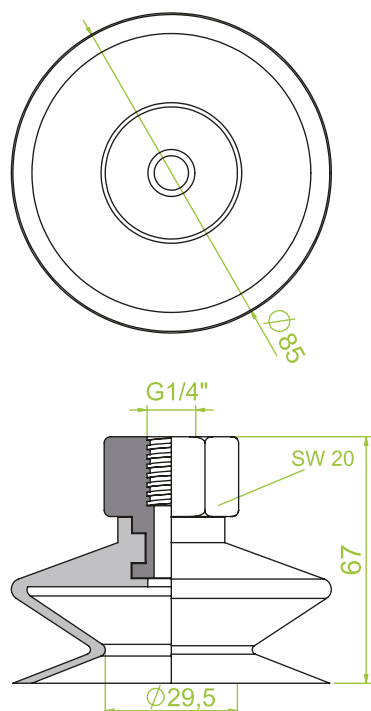
Ø 85



Art.: 213.085.006_

Material | *Material*
NBR, S, NR

Gewicht | *Weight*: 120.0 gr
Hub | *Stroke*: 17.0 mm



mit Anschlusssteil IG 1/4" vulkanisiert

Balgensauger | Bellows cups

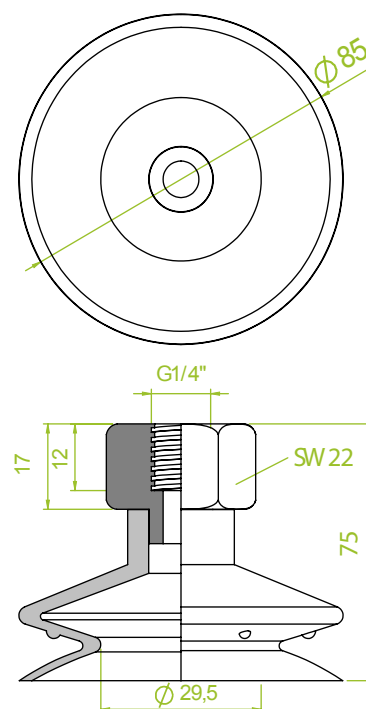
Ø 85



Art.: 213.085.009_

Material | *Material*
NBR, S

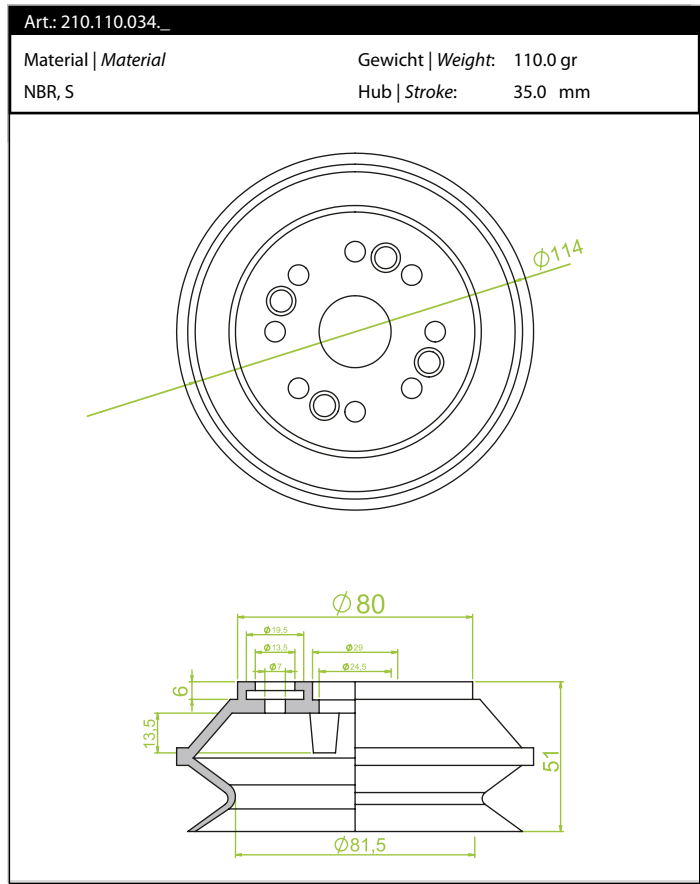
Gewicht | *Weight*: 139.0 gr
Hub | *Stroke*: 13.0 mm



Anschlusssteil IG 1/4" vulkanisiert

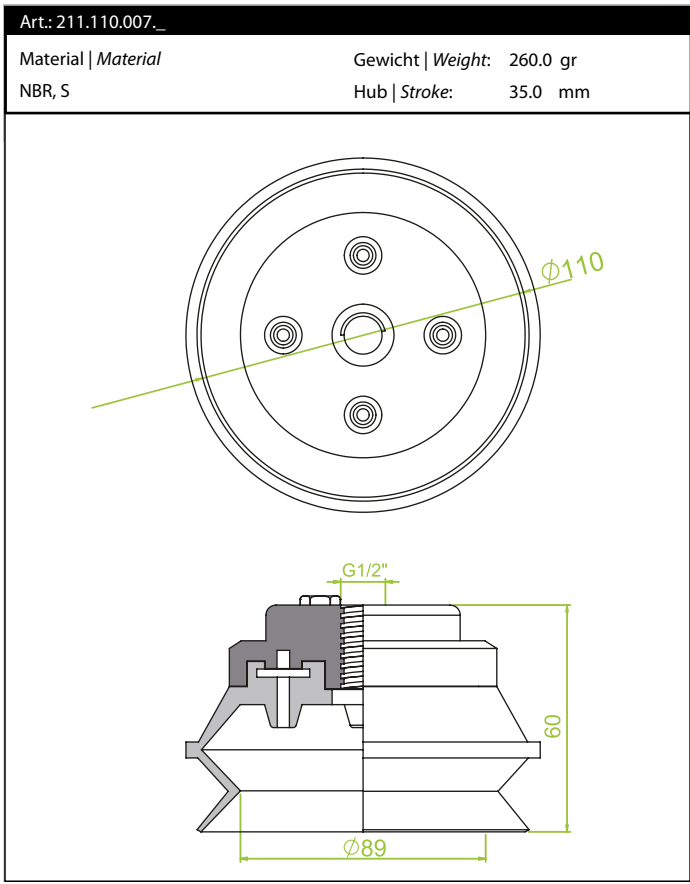
Balgensauger | Bellows cups

Ø 110



Balgensauger | Bellows cups

Ø 110



Balgensauger | Bellows cups

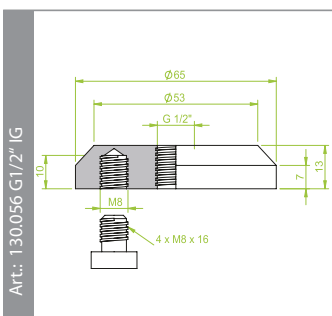
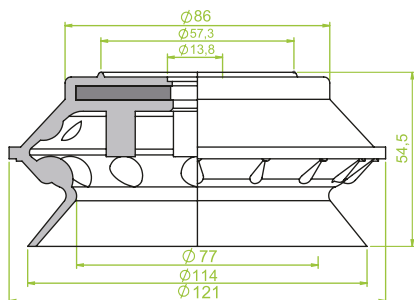
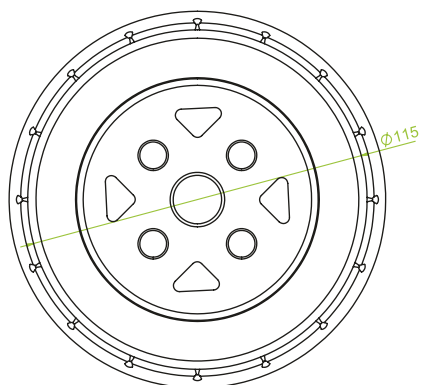
Ø 115



Art.: 210.115.047._

Material | Material
NBR, S, PU

Gewicht | Weight: 340.0 gr
Hub | Stroke: 29.0 mm



Art.: 130056 G1/2" IG

Balgensauger | Bellows cups

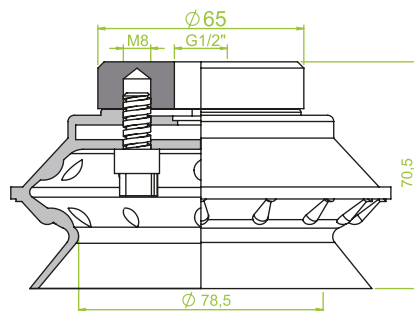
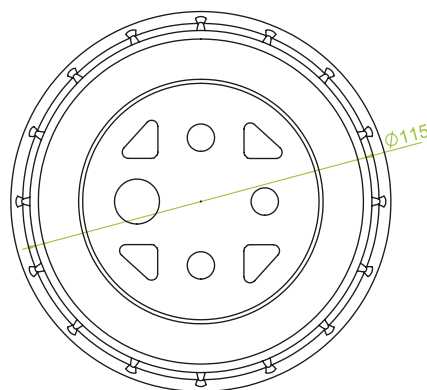
Ø 115



Art.: 211.115.017._

Material | Material
NBR, S, PU

Gewicht | Weight: 428.0 gr
Hub | Stroke: 29.0 mm



Balgensauger | Bellows cups

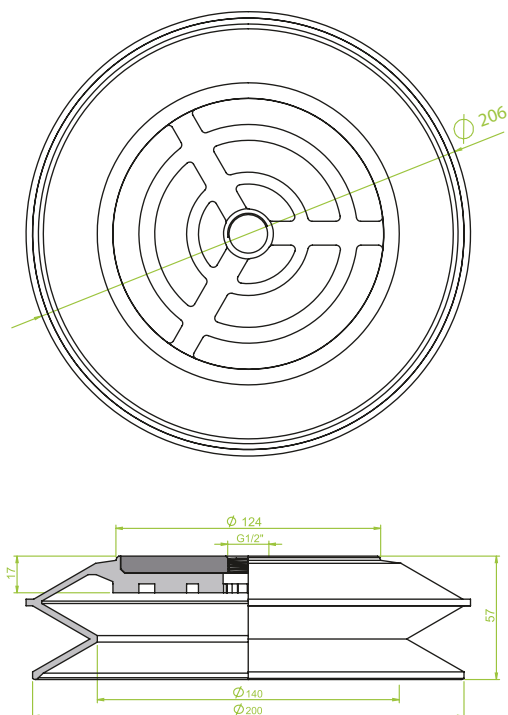
Ø 200



Art.: 213.200.021._

Material | *Material*
NBR, S

Gewicht | *Weight*: 860.0 gr
Hub | *Stroke*: 30.0 mm



Balgensauger | Bellows cups

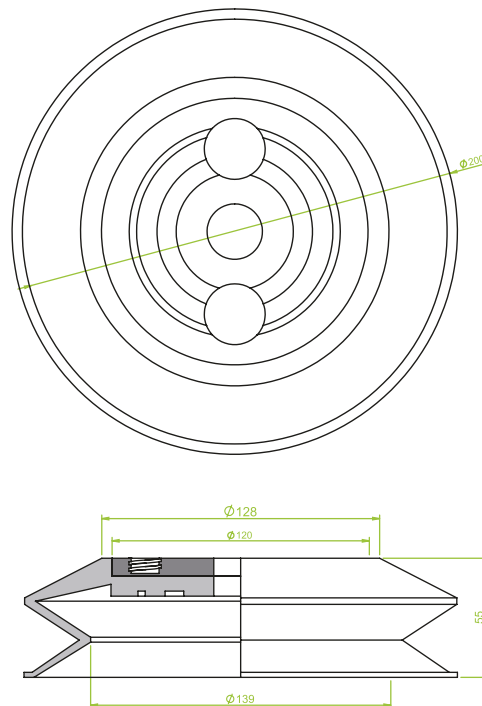
Ø 200



Art.: 213.200.022._

Material | *Material*
NR, NBR

Gewicht | *Weight*: 520.0 gr
Hub | *Stroke*: 38.0 mm



Rechteck- & Ovalsauger | Rectangular & Ovale vacuum cups

Art.: 30.045015.022._

Material | Material

Gewicht | Weight: 3.6 gr

Hub | Stroke: 3.5 mm

Technical drawing of a rectangular vacuum cup. The top view shows a rectangle with rounded corners, 45 mm wide and 15 mm high, with five circular suction ports. The side view shows a cup with a total height of 22.4 mm, a base diameter of 4 mm, and a mounting flange with a diameter of 12 mm and a height of 9.3 mm. The overall width of the mounting flange is 38.6 mm.

Art.: 30.075025.024._

Material | Material

Gewicht | Weight: 15.0 gr

Hub | Stroke: 3.5 mm

Technical drawing of a rectangular vacuum cup. The top view shows a rectangle with rounded corners, 75 mm wide and 25 mm high, with five circular suction ports. The side view shows a cup with a total height of 22 mm, a base diameter of 4 mm, and a mounting flange with a diameter of 12 mm and a height of 8 mm. The overall width of the mounting flange is 75 mm.

Halter: 130.097

130.098

Art.: 30.060020.023._

Material | Material

Gewicht | Weight: gr

Hub | Stroke: mm

Technical drawing of a rectangular vacuum cup. The top view shows a rectangle with rounded corners, 60 mm wide and 20 mm high, with five circular suction ports. The side view shows a cup with a total height of 21 mm, a base diameter of 5 mm, and a mounting flange with a diameter of 12 mm and a height of 3 mm. The overall width of the mounting flange is 18 mm.

Halter: 130.097

130.098

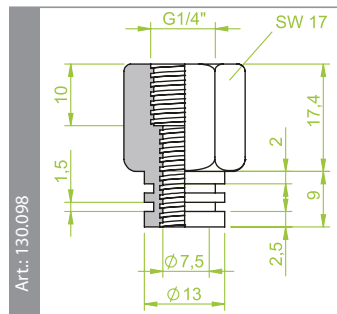
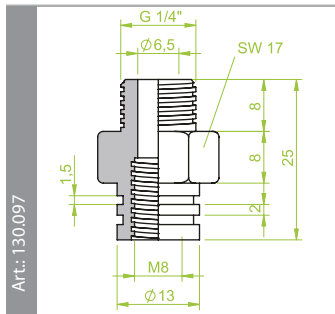
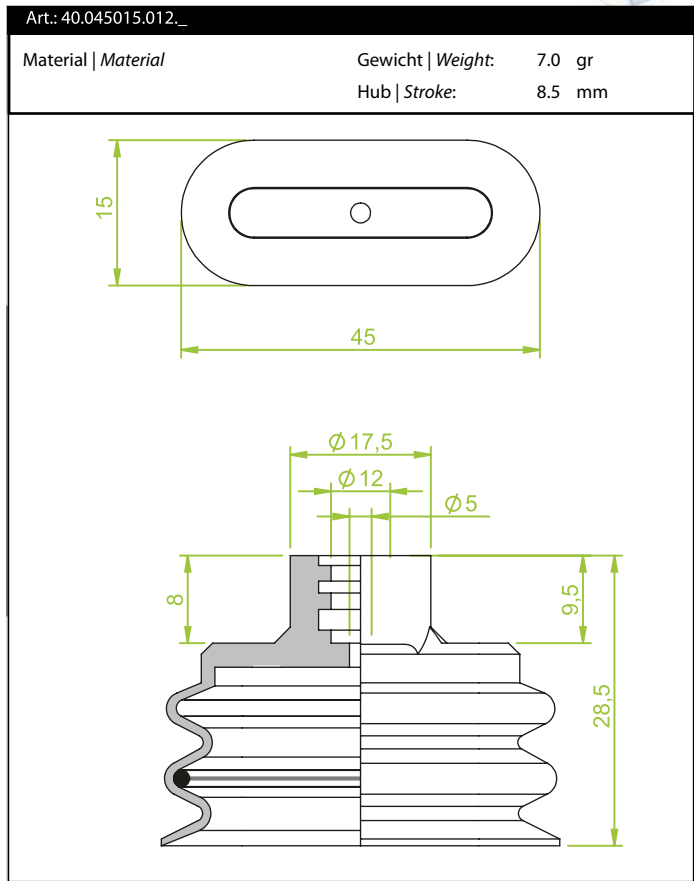
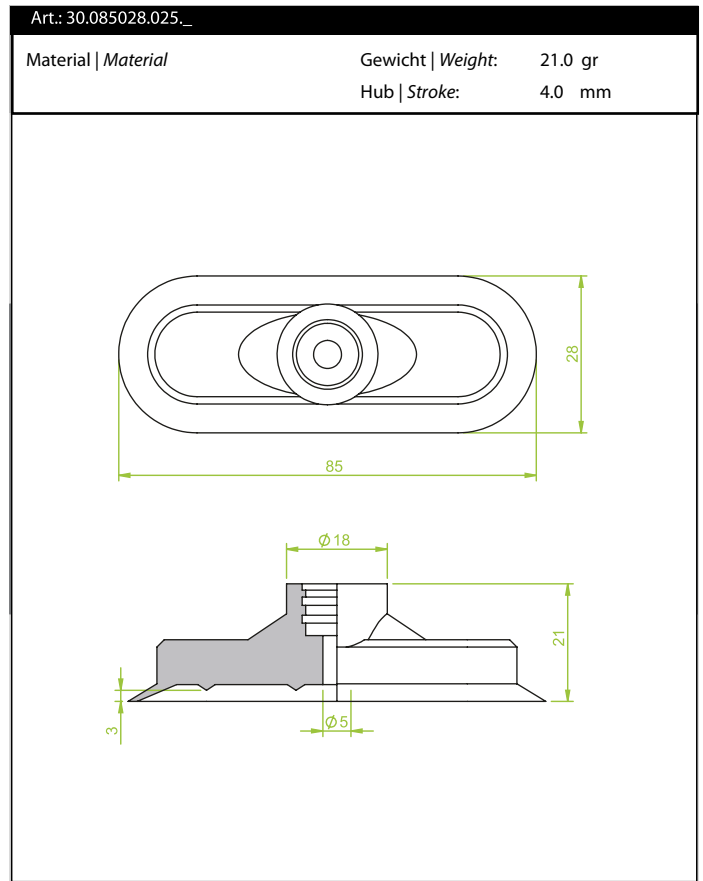
Art.: 130.097

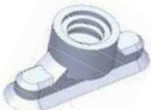
Technical drawing of vacuum cup 130.097. The side view shows a cup with a total height of 25 mm, a base diameter of 13 mm, and a mounting flange with a diameter of 6.5 mm and a height of 1.5 mm. The cup has a G 1/4" thread and a SW 17 hex key size. The overall width of the mounting flange is 8 mm.

Art.: 130.098

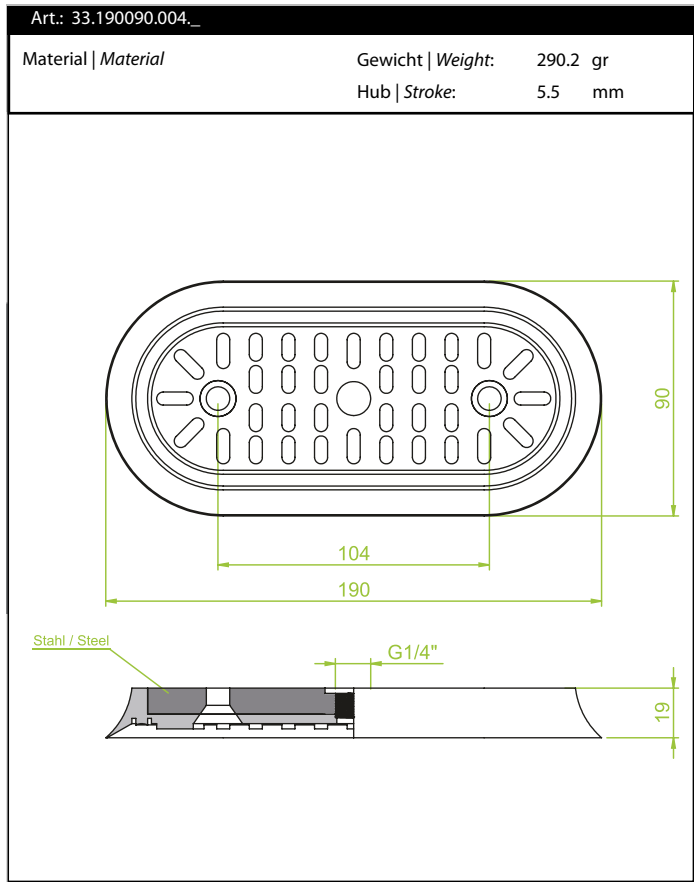
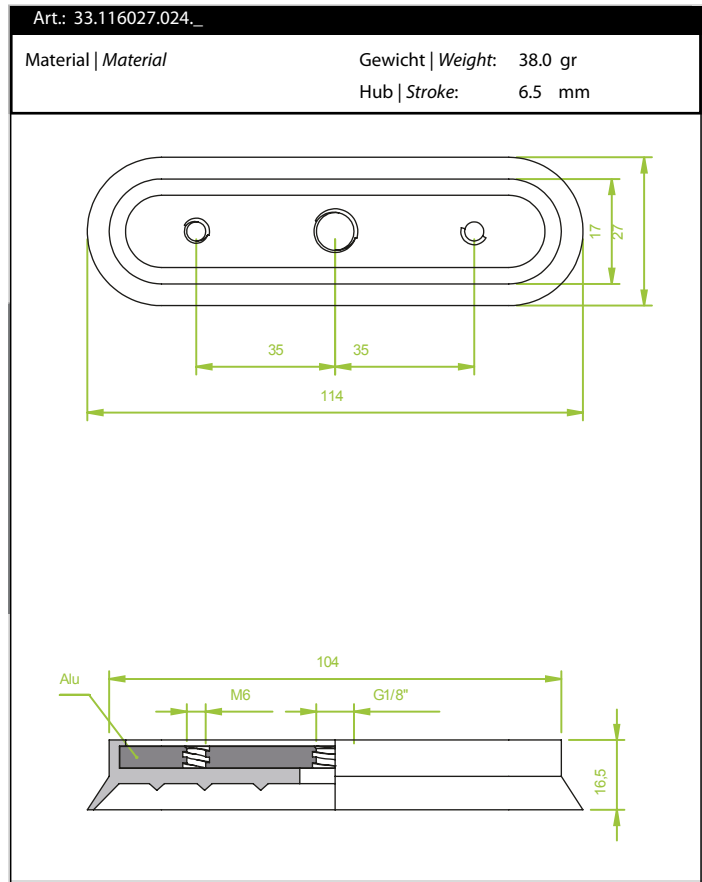
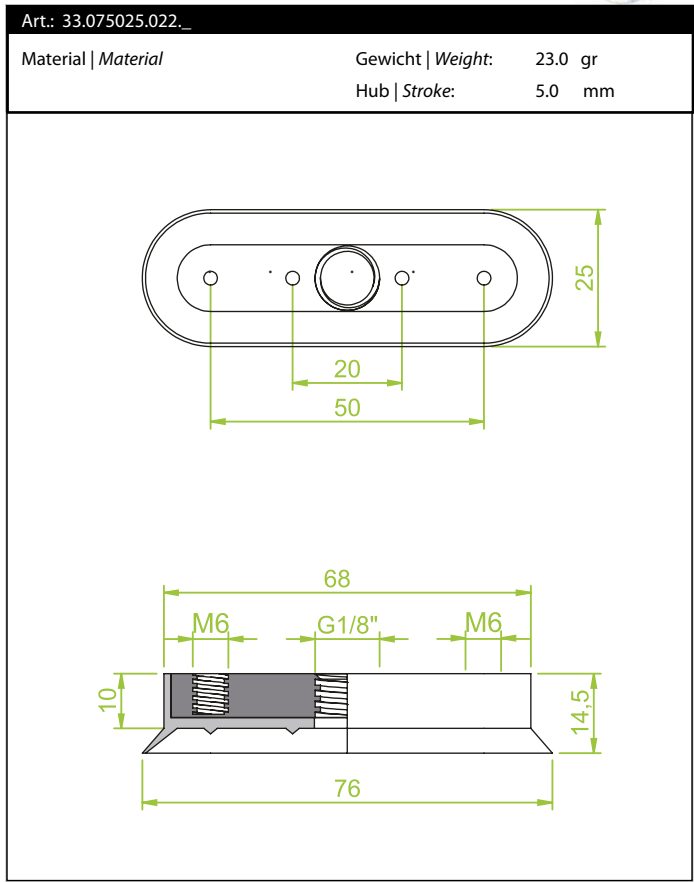
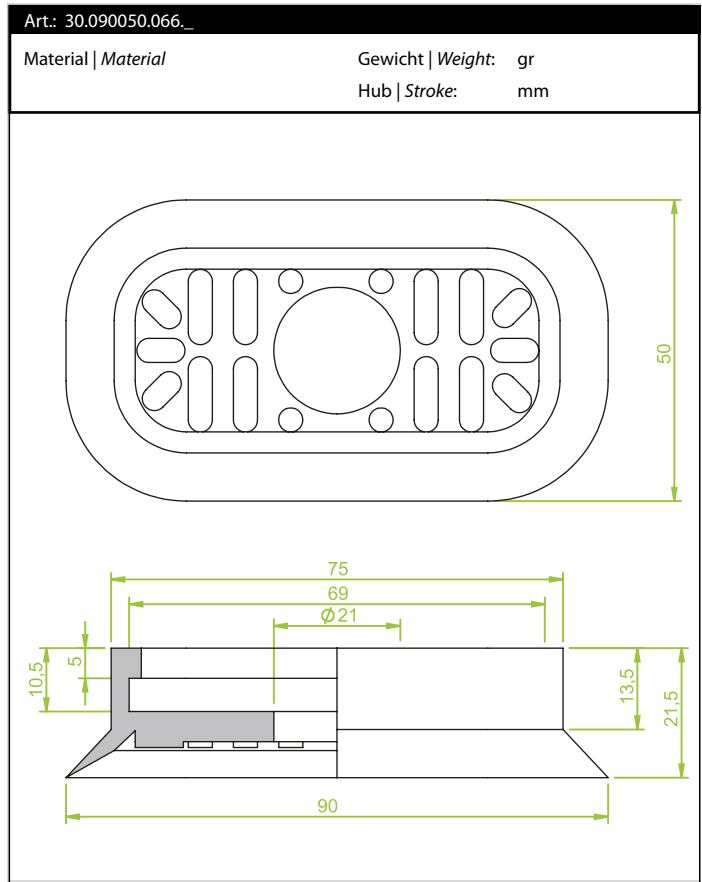
Technical drawing of vacuum cup 130.098. The side view shows a cup with a total height of 17.4 mm, a base diameter of 13 mm, and a mounting flange with a diameter of 7.5 mm and a height of 1.5 mm. The cup has a G 1/4" thread and a SW 17 hex key size. The overall width of the mounting flange is 9 mm.

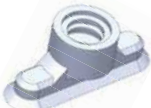
Rechteck- & Ovalsauger| Rectangular & Ovale vacuum cups



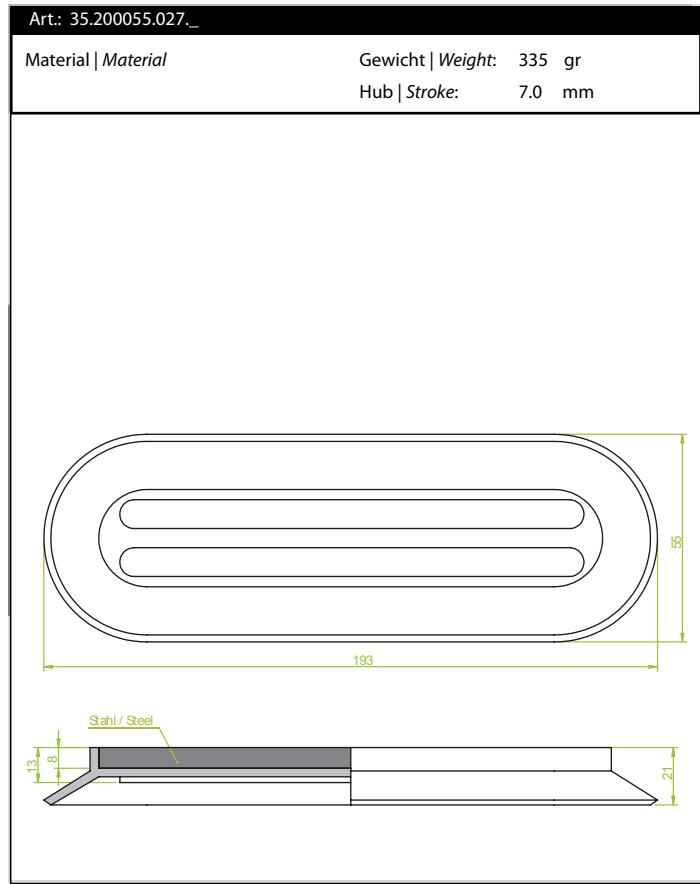
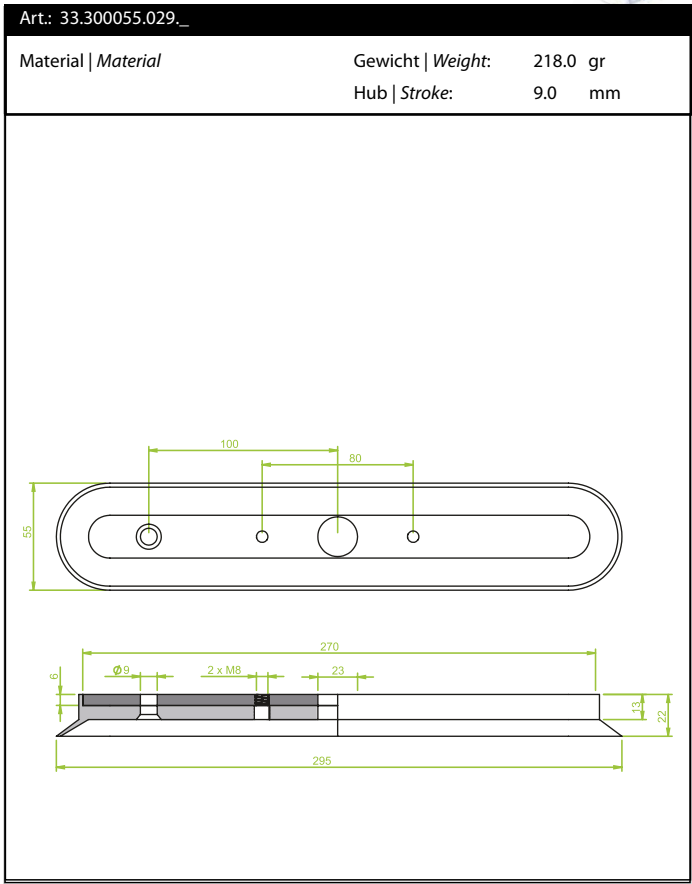
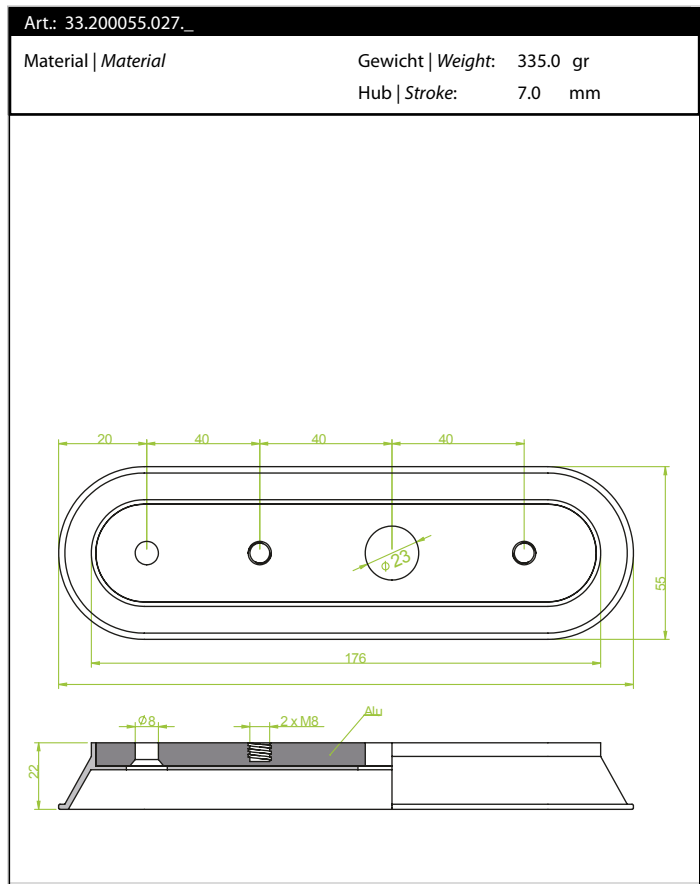


Rechteck- & Ovalsauger | Rectangular & Ovale vacuum cups





Rechteck- & Ovalsauger | Rectangular & Ovale vacuum cups



Anschlusssteile | Fittings

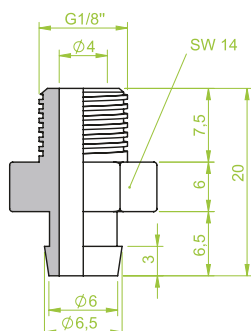


AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

Art.: 130.003

Gewinde | thread
AG 1/8"

AG 1/8"



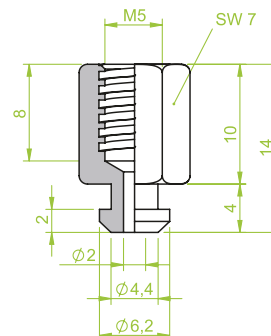
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

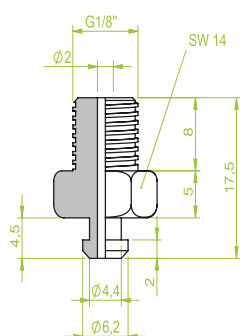
Art.: 130.005

IG M5



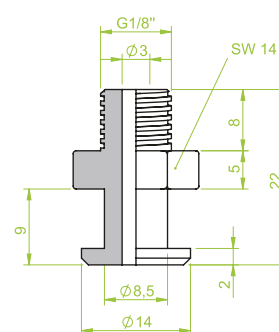
Art.: 130.009

AG 1/8"



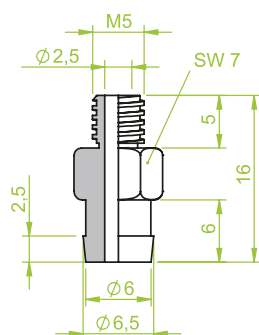
Art.: 130.012

AG 1/8"



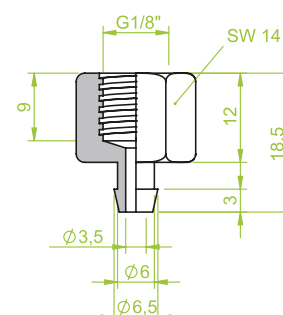
Art.: 130.013

AG M5



Art.: 130.015

IG 1/8"



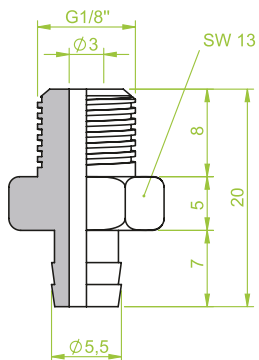
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

Art.: 130.033

Material | Material



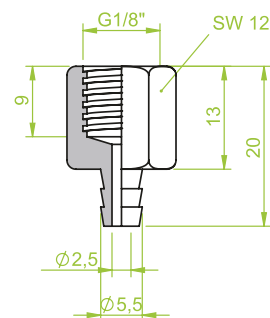
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

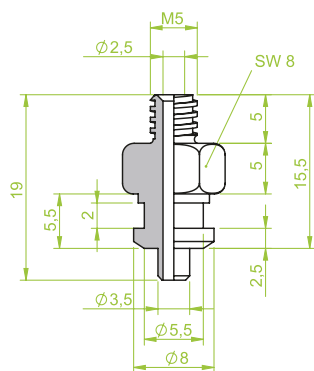
Art.: 130.035

IG 1/8"



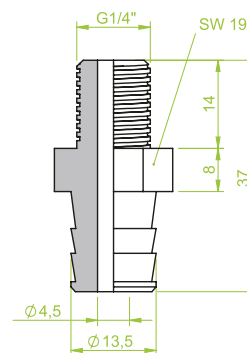
Art.: 130.037

AG M 5



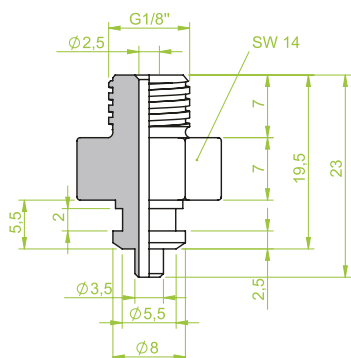
Art.: 130.049

AG 1/4"



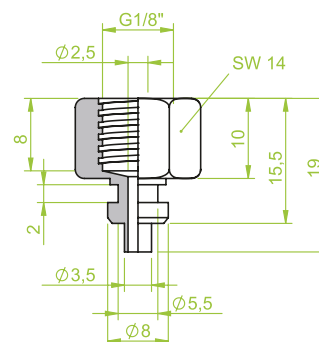
Art.: 130.085

AG 1/8"



Art.: 130.086

IG 1/8"

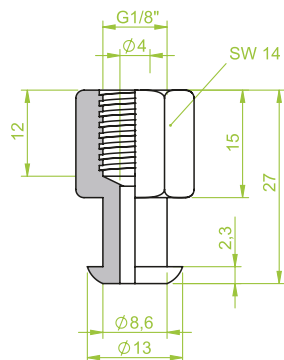


Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

Art.: 130.092

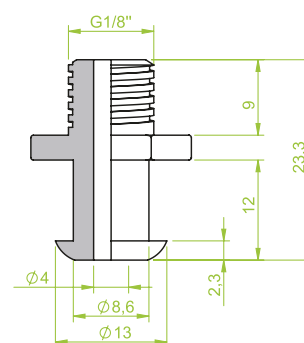
IG 1/8"

Anschlusssteile | Fittings

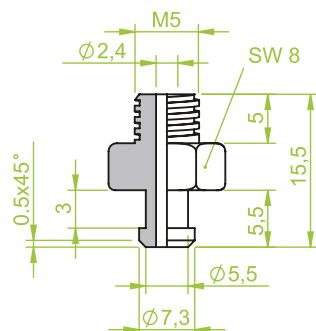


AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

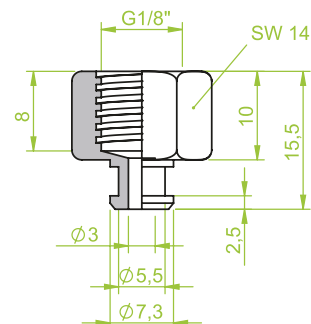
Art.: 130.093

AG 1/8"

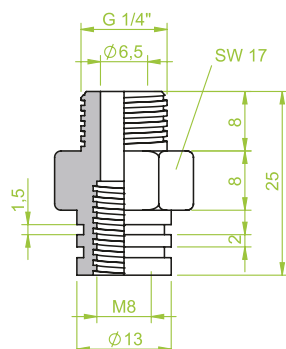
Art.: 130.094

AG M5

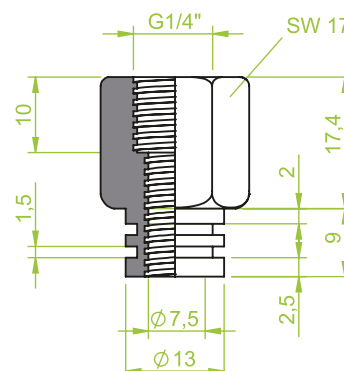
Art.: 130.096

IG 1/8"

Art.: 130.097

AG 1/4"

Art.: 130.098

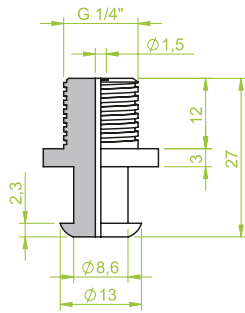
IG 1/4"

Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

Art.: 130.099

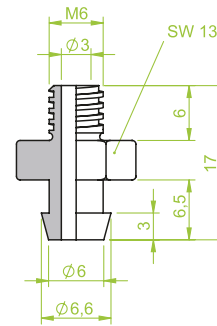
AG 1/4"

Anschlusssteile | Fittings

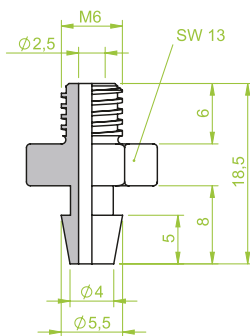


AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

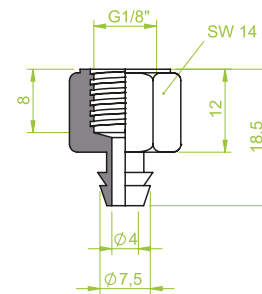
Art.: 130.103

AG M6

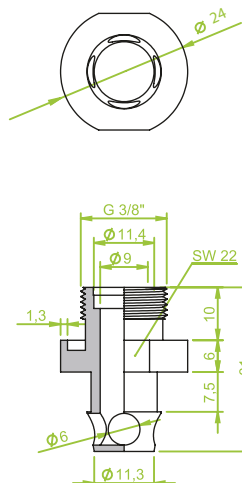
Art.: 130.104

AG M6

Art.: 130.110

IG 1/8"

Art.: 130.600



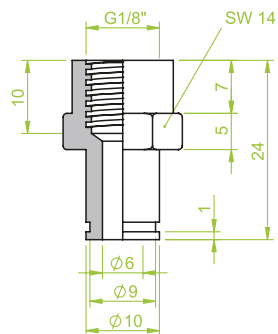
Art.: 130.482

Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

Art.: 130.114

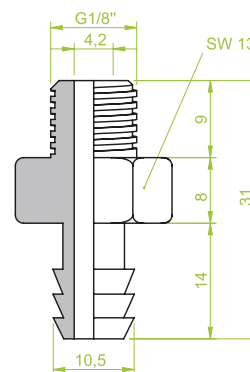
IG 1/8"

Anschlusssteile | Fittings

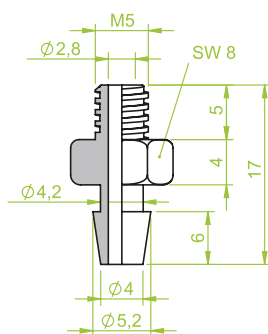


AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

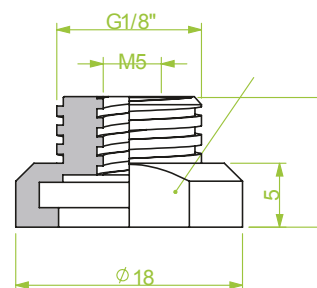
Art.: 130.132

AG 1/8"

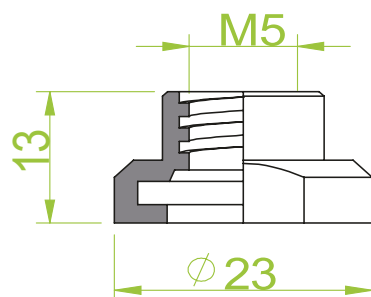
Art.: 130.134

AG M5

Art.: 130.135

AG 1/8"+IG M5

Art.: 130.136

IG 1/8"

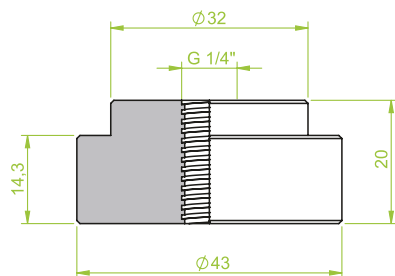
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

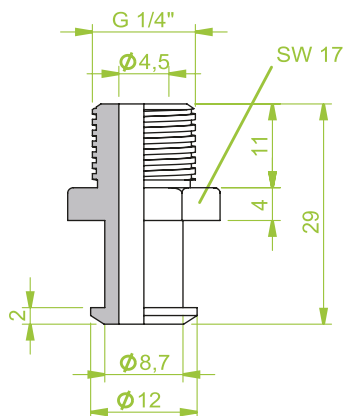
Art.: 130.179

IG 1/4"



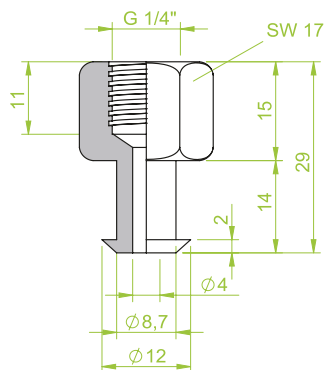
Art.: 130.190

AG 1/4"



Art.: 130.192

IG 1/4"



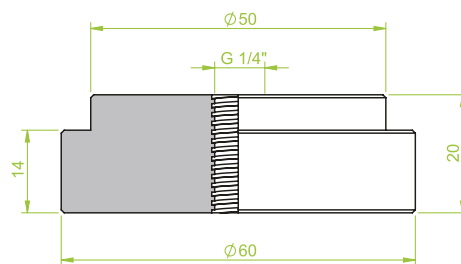
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

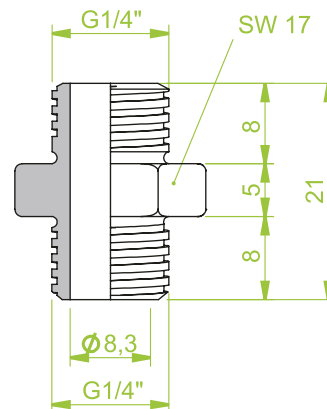
Art.: 130.180

IG 1/4"



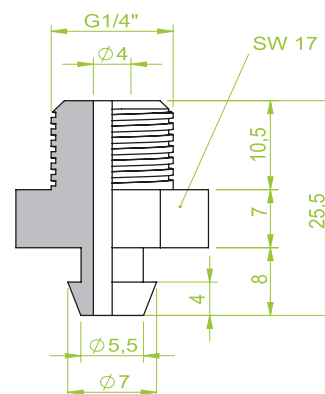
Art.: 130.191

AG 1/4"



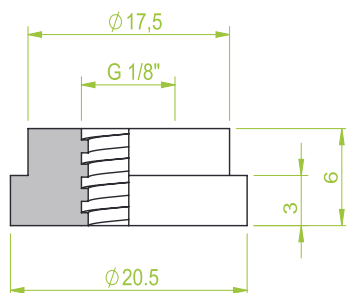
Art.: 130.194

AG 1/4"

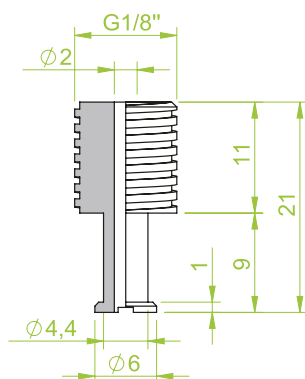




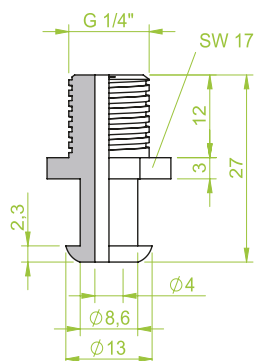
Art.: 130.234

IG 1/8"

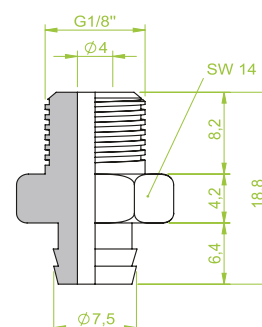
Art.: 130.242

IG 1/8

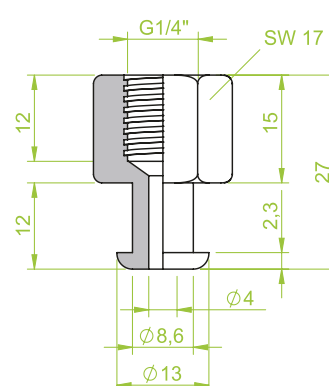
Art.: 130.249

AG 1/4"

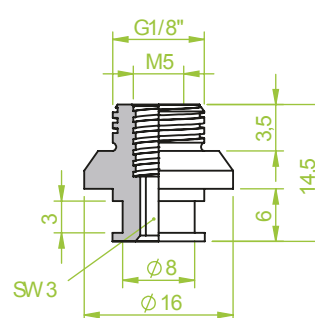
Art.: 130.238

AG 1/8"

Art.: 130.248

IG 1/4"

Art.: 130.250

AG 1/8"/IG M5

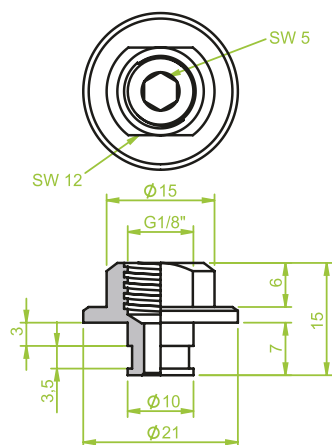
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

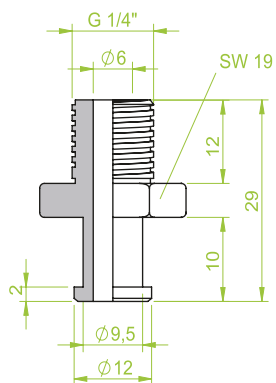
Art.: 130.251

IG 1/8"



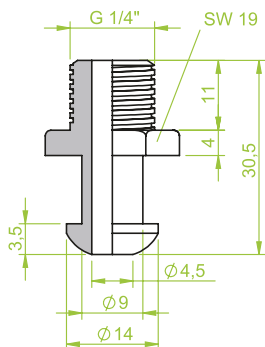
Art.: 130.274

AG 1/4"



Art.: 130.281

AG 1/4"



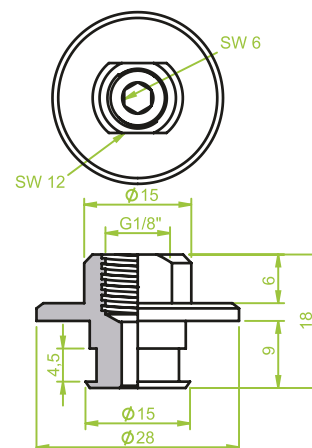
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

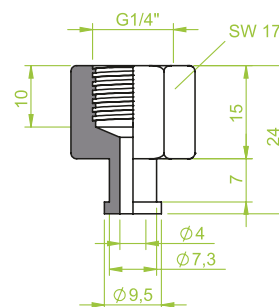
Art.: 130.252

IG 1/8"



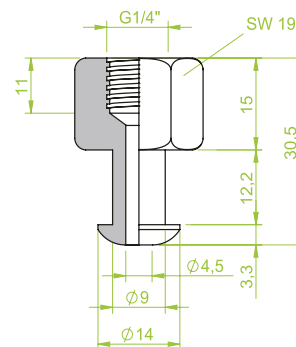
Art.: 130.275

IG 1/4"



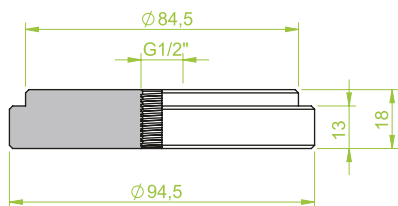
Art.: 130.282

IG 1/4"

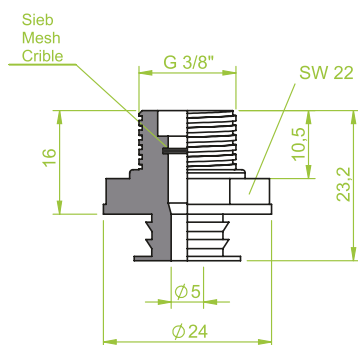




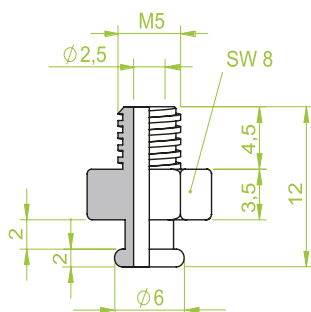
Art.: 130.290

IG 1/2"

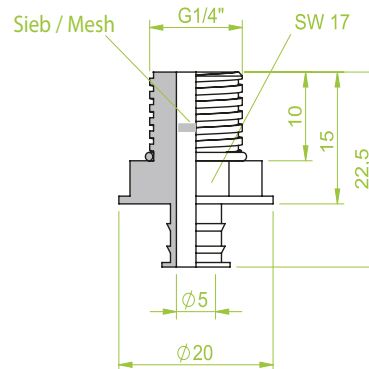
Art.: 130.295

AG 3/8"

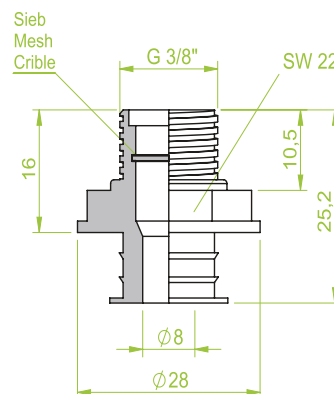
Art.: 130.301

AG M5

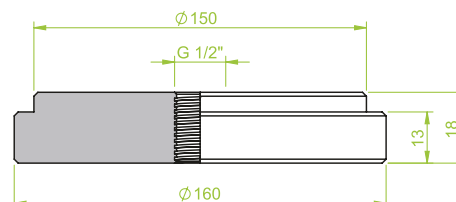
Art.: 130.293

AG 1/4"

Art.: 130.296

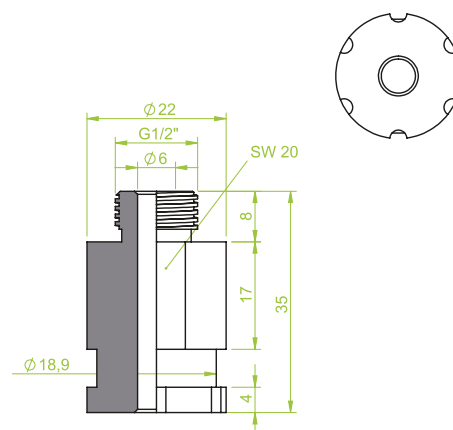
AG 3/8"

Art.: 130.335

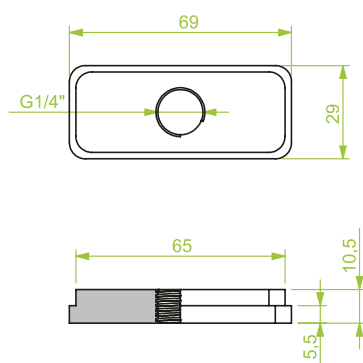
IG 1/2"



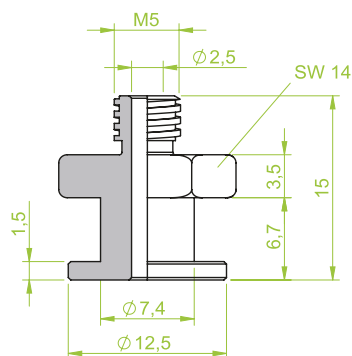
Art.: 130.390

AG 1/4"

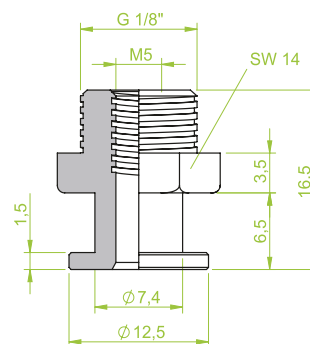
Art.: 130.522

IG 1/4"

Art.: 130.604

AG M 5

Art.: 130.605

AG 1/8" - IG M 5

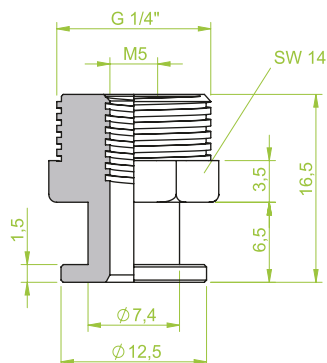
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

Art.: 130.606

AG 1/4" - IG M 5



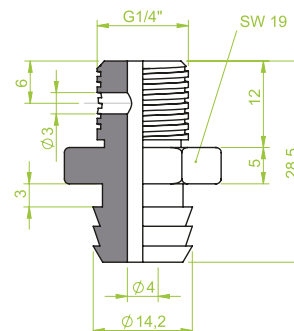
Anschlusssteile | Fittings



AG = Außengewinde / Male thread
IG = Innengewinde / Female thread

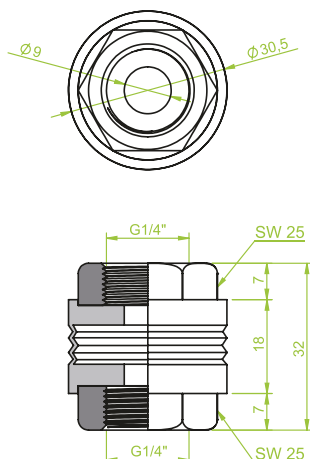
Art.: 135.101

IG G 1/4"



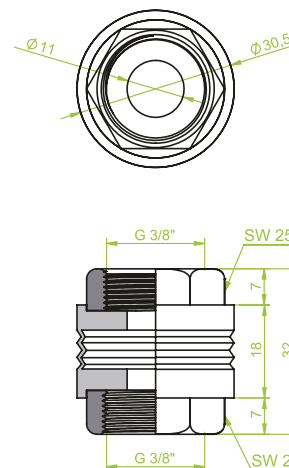
Art.: 135.102

IG G 1/4"



Art.: 135.103

IG G 3/8"



Art.:

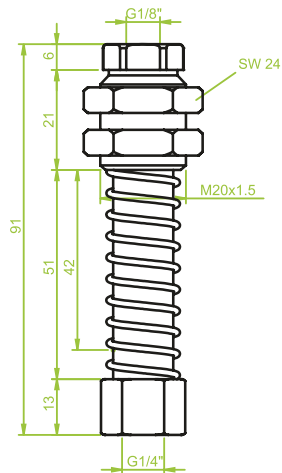
Art.:

Federstößeln | Spring levelers

Art.: 80.050

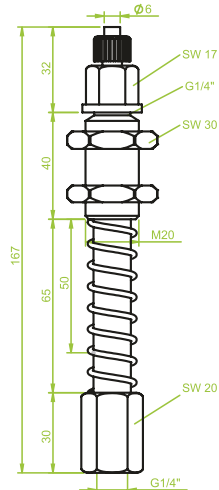
Hub | Stroke :

Verdrehgesichert , nicht



Art.: 80.106

Federstößel, Hub = 65 mm, IG 1/4"

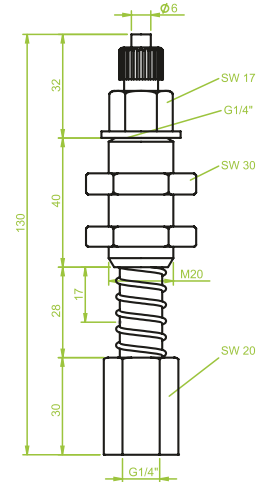


Art.: 80.063

Federstößeln | Spring levelers

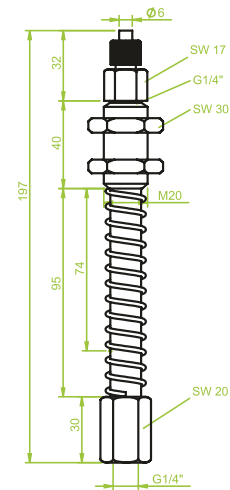
Art.: 80.105

Federstößel, Hub = 28 mm, IG 1/4"



Art.: 80.107

Federstößel, Hub = 74 mm, IG 1/4"



Art.: 80.064