Convincing vacuum technology for automated production processes

MORALI
VACTEC SYSTEMS
Safe picking, lifting and placing

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
Automation/robotics
Automobil
Automotive
CD / DVD
CD/DVD
Druck- und Papier
Printing and paper
Elektronik
Electronics
Glas
Glass
Holz / Möbel
Wood/furniture
Keramik / Porzellan
Ceramic/porcelain
Kosmetik
Cosmetics
Kunststoff
Plastic
Lebensmittel / Getränke
Food/drinks
Medizin
Medicine
Molkereien
Dairies
Solar
Solar
Sondermaschinenbau
Special mechanical engineering
Steinbearbeitung
Stone processing
Verpackung
Packaging





Gerne berate ich Sie.
Meine Kontaktdaten
sowie unsere digitalen Kataloge
finden Sie auf dem USB-Stick:

Aufgeklebte Plastikhülle
Hier kommt Vistenkarten und USB Stick rein

Saugerkatalog
cups catalog
2016/17

Zahlen & Fakten
facts & figures



Produkte:
- Produktion kundenspezifischer Vakuumsauger, Vakuumzubehör und Greiferkomponenten (EOAT) in Groß- und Kleinserien

Zielgruppe:
- Handelsunternehmen, Endverbraucher, Ingenieurbüros und Entwicklungsabteilungen im Sondermaschinenbau, sowie andere Industriezweige, Universitäten und Forschungseinrichtungen

Märkte:
- Überwiegend Deutschland und europäisches Ausland, sowie weltweit

Unternehmen:
- Hauptsitz, Vertrieb und Lager in Rottweil
- Technischer Support in Hallbergmoos
- 50 Mitarbeiter

Aktuelle Projekte:
- Individuallösungen aufgrund kundenspezifischer Vorgaben
- Stetige Weiterentwicklung und Ausbau der Produktpalette
- Weitere Erschließung internationaler Märkte

Historischer Abriss:
- 1994 Gründung des Unternehmens in Rottweil
- 2006 Übernahme der Geschäftsleitung durch den derzeitigen Geschäftsführer Herrn Mehmet Morali
- 2007 Eröffnung des Technischen Supports in Hallbergmoos, Nähe München
- 2011 Einstieg in weitere Geschäftsfelder (Produktion Greiferkomponenten, Vertrieb von Komponenten für Automationslösungen)

Products:
- *Production of customised Vacuum cups, vacuum accessories and Gripper components (End-of-Arm-Tooling) in large and small series*

Target Group:
- *Trading companies, End Users, Engineering Offices and development departments in the special mechanical engineering as well as other industrial branches, universities and research facilities*

Markets:
- *Predominantly Germany and European countries, as well as worldwide*

Company:
- *Head office, distribution and stock Department in Rottweil*
- *Technical Support in Hallbergmoos*
- *50 Employees*

Topical projects:
- *Individual solutions on account of customised requirements*
- *Stedy, on-going development and extent the range of products*
- *Beyond this, Nanogate's focus in on continuing the activities to open up international markets*

Historical background:
- *1994 Foundation of the cmpany in Rottweil*
- *2006 Takeover of the management by the present CEO Mr. Mehmet Morali*
- *2007 Opening of the technical Support in Hallbergmoos, near Munich*
- *2011 Investing in other business segments (production of gripper components, Distribution of components for automation solutions)*

MORALI VACTEC SYSTEMS











MOR

Unser Knowhow

Die Firma **Morali** produziert Vakuumsauger und das entsprechende Zubehör für unzählige Anwendungen in der Automatisierung zu wirtschaftlichen Preisen.

Als einer der weltweit größten Hersteller verfügen wir über ein außerordentlich vielfältiges Standardprogramm an Vakuumsaugern und bringen unser Know-how auch zum Ausdruck bei Innovationen, wie z. B. bei unseren SolarVAC, FolienVAC und vielen weiteren Spezialsaugern.

Die Firma **Morali** Produktionstechnik GmbH mit großer Erfahrung in der Automatisierungstechnik, hat sich auf die Herstellung von hochwertigen Vakuumsaugern spezialisiert und ist international auf dem Markt aktiv.

Wir bieten Ihnen:

- *Hochwertige Vakuumsauger direkt vom Hersteller zu besonders guten Konditionen*
- *Umfangreiches Standardsortiment und individuelle Sonderlösungen*
- *Technischer Beratungsservice auf all Ihre Fragen*

Wir freuen uns Sie in Zukunft bei Ihren Projekten unterstützen zu können und erwarten gerne Ihre Anfrage.

Ihr **Morali** Team



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

MORALI
VACTEC SYSTEMS







RALI

Our Knowhow

*The company **Morali** produces vacuum cups and the corresponding accessories for innumerable applications in the automation at economic prices.*

We dispose of an exceptionally various standard program as one of the worldwide biggest manufacturers at vacuum cups and also express our know-how at innovations, as e.g. at our SolarVAC, FoilVAC and many further special cups.

*The company **Morali** Produktionstechnik GmbH with great experience in the automation engineering has specialized in the production of high-quality vacuum cups and is internationally active on the worldwide market.*

Our service:
- *high-quality vacuum cups directly from the manufacturer to particularly good conditions*
- *extensive standard assortment and individual special solutions*
- *technical consultancy services on all your questions*

We are pleased to be able to support you at your projects in future and look forward to your inquiry.

*Your **Morali** Team*

MORALI
VACTEC SYSTEMS

Sauger und Endeffektoren





Endeffektoren

EOAT Elemente sind unverzichtbare Komponenten, wenn mittels Greifersystemen kundenorientierte Handhabungsprozesse, Teileentnahme, Vereinzelung und Einlegen von Produkten realisiert werden sollen.
Die Morali Produktionstechnik GmbH bietet jetzt zusätzlich zu dem umfassenden Vakuumsaugerprogramm auch Greiferteile an, wie auf nebenstehender Abbildung dargestellt.
Wir stellen Ihnen eine Auswahl an Einzelkomponenten zur Eigenkonstruktion zur Verfügung, ausgehend von Schnellwechselsystemen, Klemm- und Verbindungselementen bis hin zu Greiffingern und Greifzangen.

End-of-Arm-Tooling (EOAT)

EOAT Elements are essential components used by grip arm systems for customer oriented handling processes, which include, part withdrawal, sorting and insertion.

The company Morali produktionstechnik GmbH, offers a comprehensive vacuum program and EOAT parts, as the following picture shows.

We offer a wide selection of components for testing purposes, from quick changing systems, clamp elements and connecting elements to grab fingers and grippers.





Vielfalt an Vakuumsaugern

Vakuumsauger kommen überall dort zum Einsatz, wenn Objekte angehoben, transportiert, selektiert, positioniert, umgesetzt oder festgehalten werden sollen. Die Verbindung von Vakuumanlagen und Vakuumsaugern ist Teil jeder modernen Produktionsstätte, da hierdurch eine perfekte und fließende Handhabung gewährleistet wird. Vakuumsauger verbessern den täglichen Produktionsablauf wie folgt:

- sanftes und beschädigungsfreies Greifen
- einfache Montage
- bei Verschleiß leicht zu wechseln
- wirtschaftlich im Preis

Unterschiedliche Einsatzbereiche setzen unterschiedliche Saugergeometrien, Materialien und Befestigungen voraus.
Wir liefern Flachsauger, Balgensauger, Ovalsauger, Spezialsauger, Saugscheiben, Anschlussteile u. Federstößel.

Variety of vacuum cups

Vacuum cups are the most important parts to vacuum plants since they can be used for the handling of products versatilely. They can be used everywhere there, where it is necessary to raise objects to transport, to select, to place, to convert or to hold tight. The connection of vacuum systems and vacuum cups is part of every modern push button factory, through this a perfect and fluent utilization is guaranteed. Vacuum cups improve the production process as follows:

- Gentle gripping free of damage
- Easy to assemble
- Easy to replace
- at economical prices

Different areas of application mean different cup geometries, materials and connections.

We deliver flat, bellow, oval, special cups, rubber discs, connection parts and spring levelers.

MORALI VACTEC SYSTEMS

Cups and End-Of-Arm-Tooling





Multiflex Vakuumsauger

Mit diesem speziell entwickeltem Material bieten wir eine Vakuumsauger-Serie mit den besten Materialeigenschaften an, die derzeit auf dem Markt verfügbar ist.

- Außergewöhnlich hohe Verschleißfestigkeit
- Stabiler Balgenbereich – 60° Shore
- Flexible Dichtlippe – 30° Shore
- Erhältlich in 1,5 und 2,5 Falten
- Zahlreiche Durchmesser von Ø 15 bis Ø 70 mm verfügbar
- Exzellentes Rückstellverhalten
- Für unebene Oberflächen geeignet
- Abdruckfreiheit
- Öl- und Ozonbeständigkeit

Multiflex Vacuum Cups

We offer a series of vacuum cups with custom made materials. The material properties include:

- Extremely high wear-resistance
- Stable bellow area - 60 ° Shore
- Flexible sealing lip - 30 ° Shore
- Available in 1.5 and 2.5 folds
- Numerous diameters from Ø 15 to Ø 70 mm available
- Excellent set back behavior
- suitable for uneven surfaces
- No Antimarking ?
- Oil and ozone permanence





Materialpalette Vakuumsauger

Neben den Standardmaterialien NBR, Silikon und Naturkautschuk liefern wir viele unserer Vakuumsauger außerdem in Polyurethan, Chloropren, HNBR, FKM (Viton®), SBR, Vinyl, EPDM und in antistatischem NBR und Silikon.
Vakuumsauger und Material werden nach Anwendungsart und Produktionsablauf ausgewählt, um bestmögliche Ergebnisse und eine lange Lebensdauer zu ermöglichen
Aufgrund der Komplexität der diversen Anwendungsfälle stehen Ihnen unsere Mitarbeiter beratend zur Seite und helfen Ihnen bei der richtigen Material- und Saugerauswahl.

Overview Materials Vacuum Cups

In addition to the standard materials Nitrile, silicone and natural rubber we deliver many of our vacuum cups in polyurethane, chloroprene, HNBR, FKM (Viton ®), SBR, vinyl, EPDM and in antistatic NBR and silicone.

Vacuum cups and materials are chosen by utilization to allow the best possible results and a longer service life.

Our employees are happy to help you in finding the right materials and vacuum cups for your production needs.

MORALI VACTEC SYSTEMS

Inhalt

Herzlich Willkommen	*Welcome*	1
Zahlen & Fakten	*facts and figures*	2
Morali Team	*Morali team*	3
Unser Knowhow	*Our Knowhow*	4
Sauger- & Endeffektoren	*Vacuum- & end-of-arm-tooling*	6
Einsatz in folgenden Branchen	*Application in the following sectors*	9



MORALI VACTEC SYSTEMS

Einsatz in folgenden Branchen
Application in following sectors


Automatisierung / Robotik | *Automation / robotics*


Automobil | *Automotive*


CD / DVD | *CD / DVD*


Druck- und Papier | *Printing and paper*


Elektronik | *Electronics*


Glas | *Glass*


Holz / Möbel | *Wood / furniture*


Keramik / Porzellan | *Ceramic / porcelain*


Kosmetik | *Cosmetics*


Kunststoff | *Plastic*


Lebensmittel / Getränke | *Food / drinks*

MORALI VACTEC SYSTEMS



Medizin | *Medicine*



Molkereien | *Dairies*



Solar | *Solar*



Sondermaschinenbau | *Special mechanical engineering*



Steinbearbeitung | *Stone processing*



Verpackung | *Packaging*

Inhalt
Content

Inhaltsangabe der Produkte	***Content of products***
Greifen in der Handhabungstechnik	*Picking in the handling technology* 12
Hervorragende Merkmale zum Greifen in diversen Anwendungen	*The excellent characteristics for the picking in various application* 15
Ergänzende Vakuumkomponenten	*Complementary vacuum components* 16
Basiskomponenten für Greifsysteme an Industrierobotern	*Basis components for gripper systems at industrial robots* 18
Tabelle über Hebekraft	*Table of lifting force* 21
Lagerung Elastomere	*Storage Elastomer* 22
Saugermaterialien	*Vacuum cups materials* 24
Gliederung Art.Nr. Vakuumsauger	*Structure No. vacuum cups* 25
Flächengreifer **Produktneuheit**	*Vacuum grippers **New product*** 26
Für individuelles und universelles Greifen	*For individuell and universal picking* 89
 Flachsauger	*Flat vacuum cups* 90
 Balgensauger	*Bellow vacuum cups* 221
Oval/Rechteck	*Oval/Rectangular vacuum cups*
 Flachsauger	*Flat vacuum cups* 327
 Balgensauger	*Bellow vacuum cups* 381
Diverse Befestigungselemente	*Various fastening elements* 391
Federstößel	*Spring levelers* 391
Anschlussteile	*Fitting* 410
Doppelnippel	*Double nipples* 453
Index Artikel Nr.	*Index Art No.* 459

MORALI VACTEC SYSTEMS

Greifen in der Handhabungstechnik

Picking in the handling technology

Basic VAC



Flach- und Balgensauger
- vielseitig einsetzbar
- sehr gut e Stabilität
- für ebene und gewölbte Flächen

Mehr Informationen erfahren Sie ab Seite 52

Flat and bellows cups
- *Versatile useable*
- *Excelent stability*
- *for plane and curved surfaces*

More information at page 52

MasterVAC



Flach-, Balgen- und Ovalsauger
- verfügbar in vielen Varianten
- große Materialvielfalt (u.a. für hohe Temperaturen)
- hohe Flexibilität

Mehr Informationen erfahren Sie ab Seite 38

Flat, bellows and oval cups
- *Available in many variations*
- *Large selection of materials*
- *High flexibility*

More information at page 38

PrimeVAC



Flach- und Balgensauger
- für starke mechanische Beanspruchung
- Übertragung hoher Haltekräfte
- für positionsgenaue Roboteranwendungen

Mehr Informationen erfahren Sie ab Seite 29

Flat and bellows cups
- *For strong mechanical loads*
- *Transfer of high forces*
- *For position-exact robot applications*

More information at page 29

UniversalVAC



Flach- und Balgensauger mit vulkanisiertem Anschluss
- für hohe Beschleunigungen
- sehr hohe Prozesssicherheit
- hervorragende Haltekraft

Mehr Informationen erfahren Sie ab Seite 34

Flat and bellows cups with vulcanized fitting
- *For high acceleration*
- *Very high level of process safety*

More information at page 34

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

MultiflexVAC

Flachsauger - hochabdruckarm



- sehr hohe Verschleißfestigkeit
- beste Haftreibungseigenschaften
- flexible Dichtlippe

Mehr Informationen erfahren Sie ab Seite 69

Flat cups - High anitmarking

- *High abrasion*
- *Best adhesion properties*
- *Flexible sealing lip*

More information at page 69

Balgensauger - hochabdruckarm



- u.a. auch in 2 kombinierten Shorehärten erhältlich
- exzellentes Rückstellverhalten
- sehr hohe Verschleißfestigkeit

Mehr Informationen erfahren Sie ab Seite 70

Bellows cups - high wear resistance

- Also avail*able in 2 combined shore hardnesses*
- *Excellent back set behaviour*
- *High wear* resistance

More information at page 70

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Hervorragende Merkmale zum Greifen in diversen Anwendungen

The excellent characteristics for the picking in various applications

HNBR Material



Dieses hochabdruckarme und bis + 160° C temperaturbeständige Material ist zudem abriebfest und erlaubt späteres Lackieren der Kunststoffprodukte, da die Vakuumsauger frei von Silikon-Trennmittel und lackbenetzungsstörenden Substanzen sind.

This highly antimarking and up to + 160 ° C tempe-
rature resistant material is wear-irm and allowed later
varnish the plastic products, be-cause the vacuum cups are freely from silicone-re-lease agent and of harmful.

Einsatzvielfalt | *Applications varieties*



Die große Saugervielfalt ermöglicht es für nahezu alle Einsatzbereiche und Branchen den geeigneten Saugnapf für die Automatisierung und Robotik zu finden. Die besonderen Eigenschaften und Merkmale der einzelnen Bauformen und Materialien sind optimal auf Produkte in der Lebensmittel-, Kunststoff-, Verpackungs-, Druck-, Holz- oder Elektronikindustrie abgestimmt.

The big cup variety enables for nearly all areas of application and branches to find the suitable sucker for the automation and robotics. The special properties and characteristics of the individual construction forms and materials are optimum coordinately on products in the food, plastic, packaging, pressure, wooden or electronic industry.

Ovalsauger | *Oval cups*



Eine Besonderheit unter den Vakuumgreifern stellen die Oval- und Rechtecksauger dar. Ihr Vorteil kommt vor allem bei langen, schmalen Werkstücken oder begrenzten Ansaugflächen zum Tragen. Sie erzielen die bestmögliche Haltekraft im Vergleich zu runden Flachsaugern gleicher Breite.

The oval and rectangle cups show a specific feature under the vacuum grip arms.
The advantage is especially at all long, narrow workpieces or limited suction surfaces. They achieve the best possible lifting force in comparison to round flat suction cups of the same width.

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

MORALI VACTEC SYSTEMS

Ergänzende Vakuumkomponenten
Complementary vacuum components

VAC-Pinzette | *VAC-Tweezer*



Die VAC-Pinzette ist in 2 Ausführungen verfügbar
- Druckluftbetrieben, mit eingebautem Ejektor
- Vakuumbetrieben

VAC-Tweezer
The VAC-Tweezer is deliverable in 2 different versions
- *Compressed air with integrated generator*
- *Vacuum-operated*

Vakuumhubzylinder | *Vacuum lifting cylinders*



Die Vakuumhubzylinder sind in 2 Versionen erhältlich
- Baureihe mit verdrehgesicherter Kolbenstange
- Baureihe ohne Verdrehsicherung – mit großem Hub

The vacuum lifting cylinders are deliverable in 2 different versions
- *Series with torsionally rigid piston rod*
- *Series without anti-rotation-lock*

Ejektoren und Verbindungselemente | *Generators and connecting elements*



Vakuumerzeuger in vielen Varianten lieferbar
- Inline-Ejektoren zum direkten Einbau in Schlauchleitung
- Ejektoren – kompakte Bauform in vielen Varianten

Große Auswahl an Verbindungselementen, Verteilerblöcken und Verschraubungen für Schläuche

Vacuum generators in different modifications deliverable
- *Inline-generator for direct installation in hose line*
- *Generator – compact version in different options*

Vakuumfilter – Kunststoff | *Vacuum filter - Plastic*



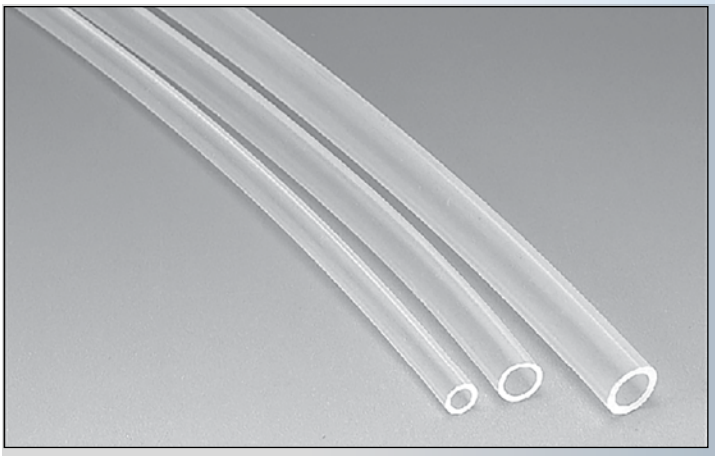
Bruchsichere Filter in 5 verschiedenen Baugrößen
- Anschlussgewinde von 3/8“ bis 1 1/2”
- Austauschbare Filterelemente (10 µm)
- Durchsichtiges Filtergehäuse zur einfachen Kontrolle

Unbreakable filters in 5 different sizes

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Schläuche | *Tubes*



Flexible Vakuum- und Druckschläuche in verschiedenen Materialien und Durchmessern
- Transparente und farbige Materialien
- Spiralschläuche

Flexible vacuum- and pressure air tubes in various materials und diameters

Flächengreifer – Produktneuheit | *Grippers - NEW*



Zum Handling von Werkstücken mit ebener oder biegsamer Oberfläche, z. B. Kartonagen, Plattenmaterial usw.
- Einfache Montage
- Niedriges Eigengewicht
- Sicheres und stabiles Handling

Handling of workpieces with plane or flexible surfaces, e.g., cardboard packaging's, record material etc.
- *Simply mounting*
- *Low weight*
- *Safe and stable handling*

Handgreifer | *Grabber cups*



Diese einfachen Handgreifer aus Elastomermaterial gibt es in 5 Größen
- Geeignet für alle luftundurchlässigen, glatten Oberflächen

These grabber cups are made of elastomer material and is deliverable in 5 sizes

Saugscheiben | *Flat rubber discs*



Gummischeiben werden als Flachsauger in der Druck- und Grafikindustrie zur Aufnahme und Vereinzelung von Papierbögen eingesetzt
- Große Auswahl an Durchmessern und Materialien

Elastic discs are used as a flat suction cup in the printing- and graphic industry for gripping and handling sheets of paper.
- *Large selection in diameters and materials*

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Basiskomponenten für Greif-systeme an Industrierobotern

Seit vielen Jahren beschäftigt sich unser Team erfolgreich mit der Thematik des Anfassens, des prozesssicheren Hebens und der präzisen Positionierung von Objekten.

Unsere umfangreiche Produktpalette bietet für verschiedene Handhabungstechniken vielfältige Anwendungsmerkmale.

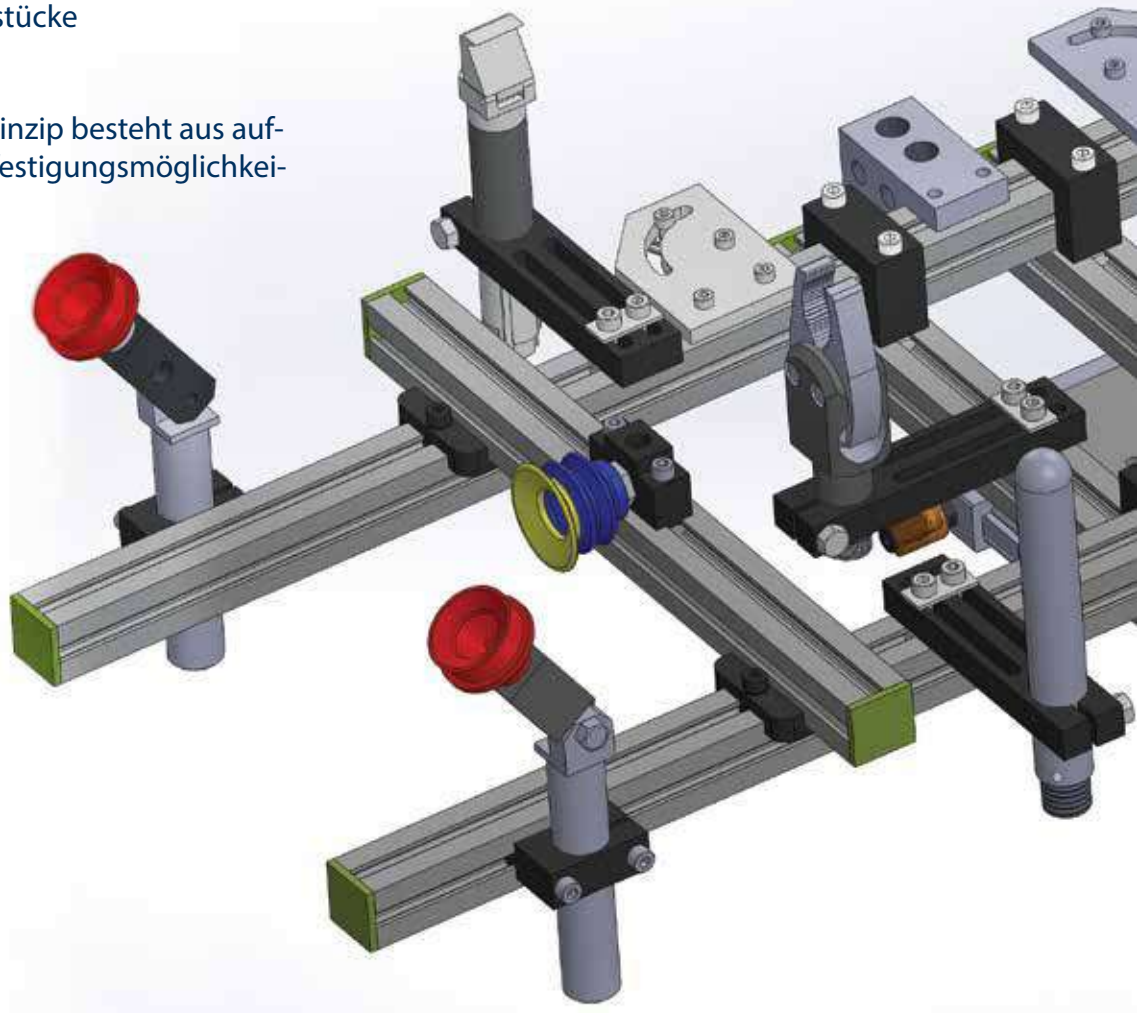
Durch unser Know-how bei innovativen Systemlösungen erfolgte der Einstieg in die Endeffektortechnik. Um individuelle Positionieranforderungen zu ermöglichen, produzieren wir alle abgebildeten Systemgruppen wie

- Greifzangen und Greiffinger
- Schnellwechselsysteme
- Klemm- und Verbindungsstücke
- Aluminium-Profile.

Das modular aufbauende Prinzip besteht aus aufeinander abgestimmten Befestigungsmöglichkeiten durch Klemm- und Schraubverbindungen. Es ermöglicht auf einfache Weise, aufgabengerecht aus kombinierfähigen Bausteinen, Entnahmeeinheiten für Industrieroboter zusammenzustellen.

Wir veredeln bei vielen Greiferteilen die Oberfläche durch eine Eloxalschicht, welche die Teile schützt und hochwertig macht. Um die Qualität unserer Greiferkomponenten aufrechtzuerhalten, werden die Montageelemente begleitend zum Fertigungsprozess permanenten Maßnahmen, wie z. B. Dauerlaufprüfungen unterzogen.

Erfahren Sie mehr unter Endeffektoren Katalog (siehe USB-Stick). Anfordern unter contact@morali-gmbh.de oder www.morali-gmbh.de

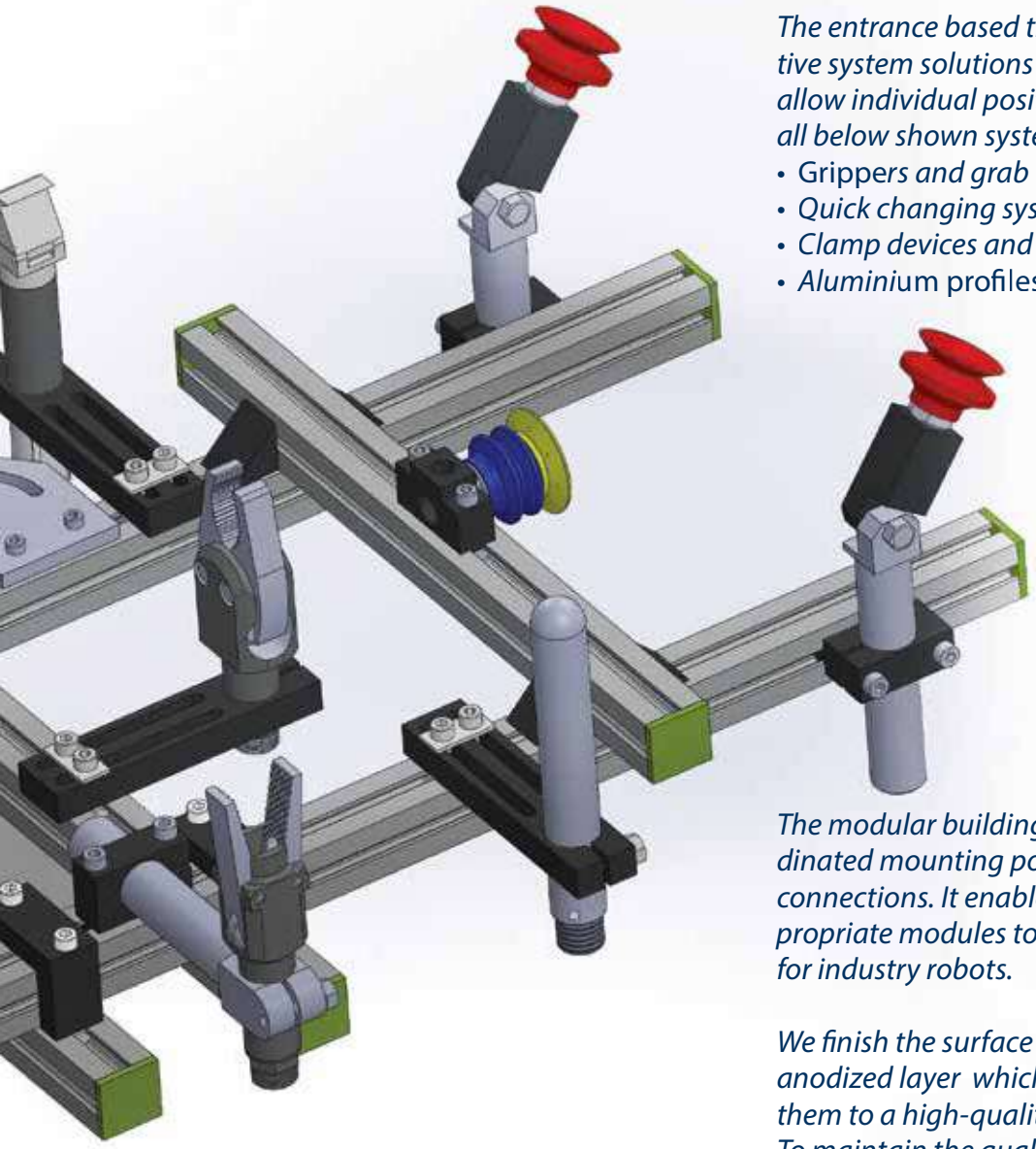


MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Basis components for gripper systems at industrial robots

Our team trades for many years successfully with the topic of the handling, the process-sure lifting and the exact positioning of objects.



Our comprehensive assortment of products offers varied application characteristics for different use technologies.

The entrance based through our know-how in innovative system solutions in the end-effector technology. To allow individual positioning requirements, we produce all below shown system groups like

- Grippers *and grab fingers*
- *Quick changing systems*
- *Clamp devices and connection elements*
- *Aluminium profiles*

The modular building up principle consists of coordinated mounting possibilities by clamp and screw connections. It enables in an easy way to combine appropriate modules to build up complete removal units for industry robots.

We finish the surface of many grip arm parts by an anodized layer which protects the parts and make them to a high-quality product.
To maintain the quality of our gripper components and accompanying to the manufacturing process, the mounting parts will be undergoing a continuous quality assurance, for example, life time tests.

Get to know more under E-O-A-T catalogue (look at USB-Stick). Order: contact@morali-gmbh.de or www.morali-gmbh.de

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

MORALI VACTEC SYSTEMS

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Tabelle über Hebekraft

Table of lifting force

Saugerhebekraft in Abhängigkeit von Vakuumhöhe und Saugerdurchmesser

Lifting force of vacuum cups depending on vacuum degree and cup diameter

*Effektiver Sauger-Ø Effective 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:

- Der effektive Saugerdurchmesser ist kleiner als der Lippendurchmesser!
- Tabellenwerte in kg entsprechen der theoretischen Abreißkraft.
- Mindestsicherheit ist 2fach, also kg dividiert durch 2 ergibt die Tragkraft pro Sauger.

Notes:

- *The effective cup diameter is smaller than the lip diameter!*
- *Table values in kg corresponds the theoretical pull-off strength.*
- *Minimum level is twice, this means that kg divided by factor 2 results the lifting per vacuum cup.*

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

MORALI VACTEC SYSTEMS

Lagerung Elastomere

Da die längere Lagerung von Elastomerteilen eine Qualitätseinbuße darstellen kann, hier ein paar Tipps, wie Sie diese vermeiden können: Lagerzeiterfassung und Lagerung ist gemäß ISO 2230 bzw. DIN 7716 geregelt.

Wärme
- Balgensauger mit 1,5 oder 2,5 Falten (Erhöhter Winkel- und Höhenausgleich)
- Ein Lagertemperaturbereich von +5 ° C bis +25° C wäre ideal für Elastomere.
- Bitte jeglichen Direktkontakt mit Wärmequellen (z.B. Heizgeräte) oder direkte Sonneneinstrahlung ist zu vermeiden.
- Bei einer Lagerung von zu niedrigen Temperaturen kann eine Verhärtung der Elastomere eintreten. Um eine Verformung zu vermeiden, sollte man deshalb darauf achten, dass diese in dem angegebenen Temperaturbereich gelagert werden.

Deformation
- Elastomere sollten deformations- und kompressionsfrei in entspanntem Zustand gelagert werden.

Licht, Ozon
- Es ist darauf zu achten, dass Elastomerteile vor Ozon und Lichtquellen geschützt gelagert werden. Lichtquellen mit ultraviolettem Anteil sowie direkte Sonneneinstrahlung sind zu vermeiden. Eine Lagerung in UV-beständigen Kunststoffbeuteln ist zu bevorzugen.

Feuchtigkeit
- Eine relative Feuchtigkeit von unter 70 % sollte nicht überschritten werden. Extreme Schwankungen zwischen Feuchte und Trockenheit sind zu vermeiden. Achtung: Keine Kondensation.

Kontakt mit Metall und Nicht-Metallen
- Diverse Metalle (Kupfer, Eisen, Mangan sowie die entsprechenden Legierungen) schädigen die Elastomere, sobald sie damit in Kontakt kommen. Deshalb ist eine gemeinsame Lagerung dieser Komponenten strikt zu vermeiden.
- Ebenfalls sollten Elastomere nicht mit PVC in Kontakt kommen aufgrund der möglichen Weichmachermigration bzw. Wanderung anderer Bestandteile.

Kontakt mit Flüssigkeiten oder Fetten
- Es ist darauf zu achten, dass kein Kontakt mit Ölen, Fetten und Lösungsmitteln zu Stande kommt.

Lagerungsdauer und Qualitätsprüfung
Maßgebend für die Nutzungsdauer der Elastomerprodukte ist der Elastomertyp. Folgende Lagerungszeiten können für die Elastomere bei sachgemäßer Lagerung (wie oben beschrieben) veranschlagt werden:

PU, SBR, NR, Multiflex	4 Jahre
NBR, HNBR, CR	6 Jahre
EPDM	8 Jahre
FKM, SI	10 Jahre

Bitte überprüfen Sie, nach diesen angegebenen Zeiten die Qualität der Elastomere.
Da Elastomere mit einer Dicke < 1,5 mm einem höheren Angriff durch Oxidation ausgesetzt sind, selbst bei optimalen Lagerungsbedingungen, ist ein kürzerer Inspektionsintervall sinnvoll.

Bitte beachten Sie, dass der Verbrauch unserer Artikel nach dem FIFO-Prinzip Hand zu haben ist. Dies bedeutet, dass die zuerst von uns bezogenen Waren auch zuerst wieder verbraucht bzw. verkauft werden. Diese Methode ist vorherrschend, da sie das Veraltern und Verderben der Waren verhindert.

Storage Elastomer

Because the longer storage of elastomer can show a quality loss, here a few tips, as you can avoid this: Storage time capture and storage is regulated according to ISO in 2230 or German Institute for Standardization 7716.

Heat

- *Bellows suction cup with 1.5 or 2.5 folds (Raised angle and heights balance)*
- *A bearing temperature range of +5 °C to +25 °C would be ideal for elastomers.*
- *Please, any direct contact with heat sources (e.g., heating appliances) or direct solar irradiation is to be avoided.*
- *With a storage of too low temperatures a hardening of the Elastomers can enter. To avoid a distortion, therefore, you should pay attention to the fact that these are stored in the shown temperature range.*

Deformation

- *Elastomer should be stored freely of deformation and of compression in relaxed state.*

Light, ozone

- *Attention must be paid to the fact that Elastomer are protected from ozone and sources of light. Light sources with ultraviolet portion as well as direct solar irradiation are to be avoided. A storage in UV-continual plastic bags is to be preferred.*

Humidity

- *A relative humidity of less than 70% should not be crossed. Extreme variations between dampness and dryness are to be avoided. Attention: no condensation.*

Contact with metal and non-metals

- *Various metals (copper, iron, manganese as well as the suitable alloys) damage the Elastomer, as soon as they come in contact. Therefore, a common storage of these components is to be avoided strictly.*
- *Also Elastomer with PVC should not come to contact on account of the possible tenderizer migration or wandering of other components.*

Contact with liquids or greases

- *It is to be seen to the fact that no contact with oils, greases and solvents takes place.*

Storage duration and quality inspection

Authoritatively for the useful life of the Elastomer is the type. The following storage times can be estimated for the Elastomer with material-appropriate storage (like on top described):

PU, SBR, NR, Multiflex	*4 years*
NBR, HNBR, CR	*6 years*
EPDM	*8 years*
FKM, SI	*10 years*

Please, check, after these shown times the quality of the Elastomers.
Because Elastomer with a thickness < 1,5 mm exposed to a higher attack by oxidation, even with optimum storage terms, a shorter inspection interval makes sense.

Please, note that the consumption of our articles has to be handled after the FIFO principle.
This means that the goods first purchased by us are also used first again or are sold. This method is prevailing, because it prevents the ageing and spoilage of the goods.

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

MORALI VACTEC SYSTEMS

Saugermaterialien
Vacuum cups materials

Sehr gut	*very good*	= ***
Gut	*good*	= **
Genügend	*sufficient*	= *
Ungeeignet	*unusuable*	= –

Schnellübersicht ihrer Eigenschaften mit Richtwerten
Quick overview of their characteristics with benchmarks

Material / *Material* — Einsatz / *Operation*	NBR .01	Silikon .02	NR .03	CR .04	Polyurethan .05	EPDM .06	FKM .07	HNBR .09	SBR .10	Silikon, verstärkt .12	Vinyl .V	Multi-flex .20
Allzweckeinsatz *All-purpose*	***	**	*	**	*	–	–	**	–	***	**	*
Arbeitstemperatur in ° C *Working temperatur in ° C*	-40 +90	-70 +200	-40 +80	-40 +90	-25 +80	-40 +130	-20 +200	-40 +160	-40 +80	-70 +200	-20 +80	-20 +80
Shorehärte (A) *Shore hardness (A)*	50-60°	30-60°	30-60°	50-60°	50-75°	50°	60°	55°	50°	30-60°	50-60°	30-60°
Ozonbeständigkeit *Ozone restistance*	**	***	–	***	***	***	***	**	–	***	*	***
Verschleiß *Wear-resistance*	**	**	**	***	***	*	**	**	**	***	***	***
Öl-Fett-Benzin *Oil-Grease-Petrol*	**	**	–	**	***	*	***	***	–	**	*	**
Rapsöl (biologische Öle) *Rapeseed-oil (biological oils)*	–	**	–	–	–	–	**	***	–	**	–	–
Säuren *Acids*	–	*	–	–	–	***	***	**	–	*	*	–
Unebene Flächen und verformbare Produkte *Uneven areas and malleable products*	*	***	***	*	*	*	–	*	**	***	***	*
Heiße Produkte *Hot products*	–	***	–	–	–	**	***	**	–	***	–	–
Heiße Produkte (silikonfrei) *Hot products (silicone free)*	–	–	–	–	–	**	***	***	–	–	–	–
Lebensmittel *Food*	–	***	**	–	–	**	–	–	–	***	*	–
Hochabdruckarm *High anti-marking*	**	*	**	*	**	**	***	**	**	*	**	***

Hinweise:
Hauptmaterialien sind Nitrilkautschuk, Naturgummi und Silikon. Je nach Einsatzfall unterliegen Vakuumsauger mechanischen und chemischen Beanspruchungen. Deshalb dienen die obigen Angaben nur als Richtwerte.

Notes:
Depending on case of use the vacuum cups are subject to mechanical and chemical uses. Therefore the above details only serve as reference values.

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

Material:

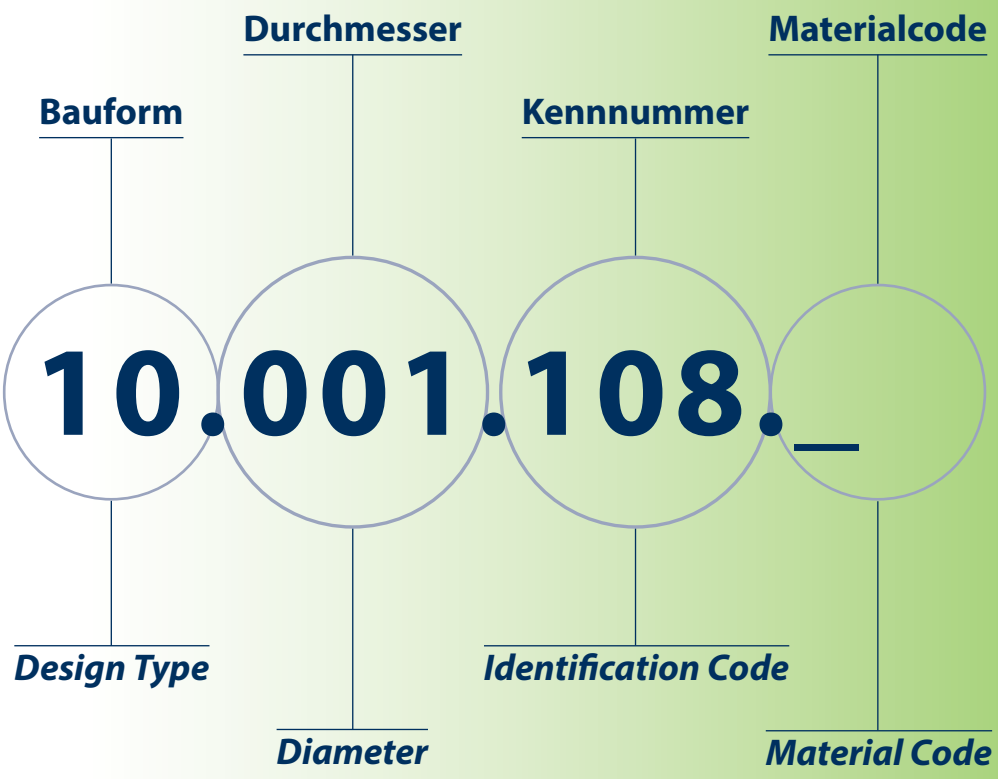
NBR	= Nitrile rubber
Silikon	= Silicone rubber
NR	= Natural rubber
CR	= Chloroprene
Polyrethan	= Polyrethane
EPDM	= Ethylene-propylene-diene-rubber
FKM	= Fluor-caoutchouc
HNBR	= Hydrogenated nitrile rubber
SBR	= Styrol-Butadien-rubber
SBR	= Silikon .12 = Silicone rubber, reinforced
Vinyl	= Polyvinyl-chloride
Multiflex	= Thermoplastic elastomer

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

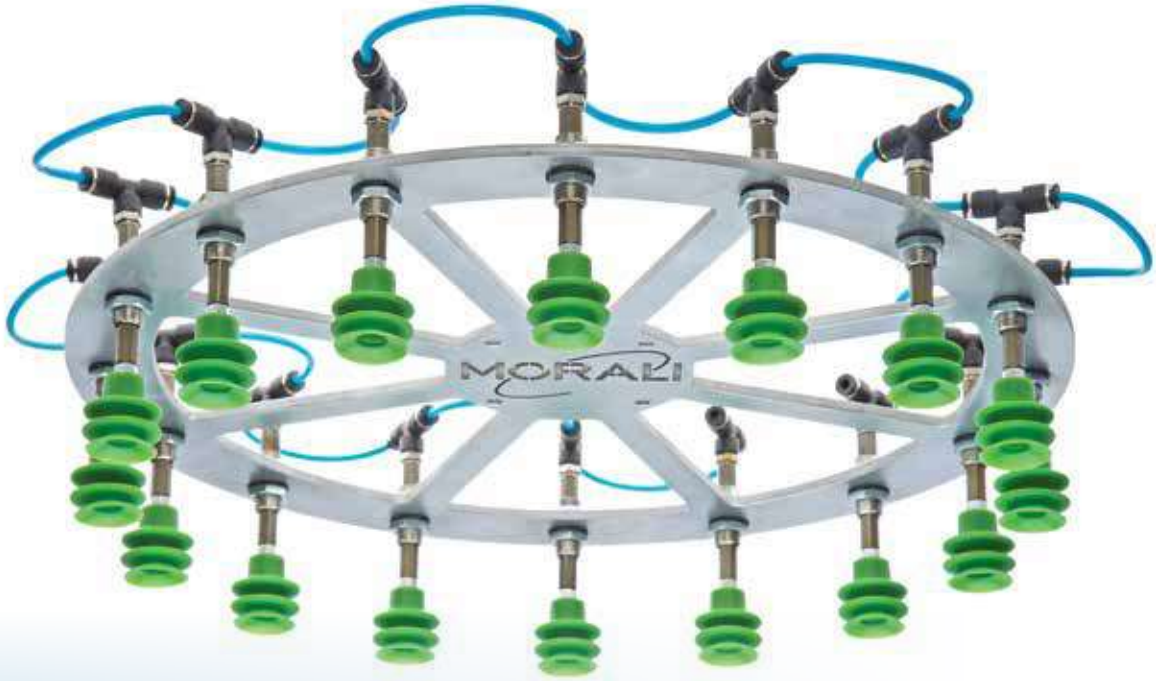
Gliederung Art.Nr. Vakuum-sauger

Structure No. vacuum cups



Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Flächengreifer bestückt mit Vakuumsaugern



Diese Produktneuheit aus dem Hause der Morali Produktionstechnik GmbH in Rottweil besticht durch ihre flexiblen Anwendungsmöglichkeiten in sehr vielen Branchen.

Der mit Vakuumsaugern bestückte Flächengreifer ermöglicht die Aufnahme und das Heben von Gegenständen mit ebener, sehr unregelmäßiger, strukturierter und biegsamer Oberfläche. Als Beispiele seien hier in erster Linie Plattenmateri-al, folienverpackte Produkte, Blisterverpackungen oder dünnwandige Kartona-gen genannt.
Außerdem kann ein Einsatz des Flächengreifers bei nicht exakt definierten Auf-nahmepositionen und unterschiedlichen Abmessungen erfolgen.
Für die genannten Anwendungen eignen sich Faltenbalgsauger bestens, da sich diese dank ihrer hohen Flexibilität perfekt an nahezu alle Oberflächen anschmie-gen. Die zusätzlich zwischen Metallträger und Vakuumsaugern montierten Federelemente sorgen dafür, dass diese den Konturen und Bewegungen beim Anheben folgen und so ein prozesssicheres Greifen ermöglichen.
Die steckbaren Saugnäpfe sind auf standardisierte Aufnahmen montiert und können bei Verschleiß schnell und einfach ausgetauscht werden. Auch sind die Saugerträger grundsätzlich mit jeder Art von Sauggreifern – je nach Anforde-rung der Anwendung – konfigurierbar. Dies senkt den Aufwand bei der Projek-tierung und auch bei der Wartung.
Morali Produktionstechnik GmbH produ-ziert und vertreibt weltweit Vakuum- und Greiferkomponenten. Als einer der weltweit führenden Hersteller im Bereich der Vaku-umtechnologie verfügt Morali über mehr als 20 Jahre Erfahrung. Als Spezialist auf diesem Gebiet bietet das Unternehmen heute eine breite Produktpalette an innovativen Qualitätsprodukten zu wettbewerbsfähigen Preisen. Dank seines Innovationsgeistes und seines technologisches Vorsprungs ist Morali darüber hinaus in der Lage, individuelle Lösungen zu Handlingsanlagen in zahlreichen Bereichen, wie der Automobil-, der Kunststoff-, der Automatisierungs-, der Elektrik-, der Elektronik- und der Lebensmit-telindustrie sowie in weiteren Branchen zu erarbeiten und die Produktionssicherheit zu erhöhen.

Vorteile

- **Niedriges Eigengewicht, dadurch weniger Energieverbrauch des Roboters, weniger Verschleiß und minimaler Wartungs - aufwand**
- **Robuste Konstruktion**
- **Sicheres und stabiles Handling**
- **Materialschonendes Greifen**

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Vacuum grippers equipped with suction cups



This new product line from the Morali Produktionstechnik GmbH in Rottweil offers a wide variety of applications to many industries.

These grippers equipped with vacuum cups permit grabbing and lifting objects with flat, very irregular, structured or flexible surfaces. As examples, these would primarily include sheet materials, products packed in foil, blister packaging or thin cardboards.

In addition, they can be used to grip objects when their positioning is not precisely defined or vary in the dimensions.

Bellows cups are best suited for the above-mentioned applications, as they adapt nearly perfect to any surface thanks to their high flexibility. The spring elements additionally mounted between the metal supports and vacuum cups ensure that they follow any contours or movements during the lifting process, thereby ensuring a secure grip at all times.

The plug-in suction cups are mounted on standardised fittings and can be replaced quickly and easily in case of wear. Generally, the cup supports can be configured for any type of suction cups – depending on the requirement of application. This reduces the expense for engineering as well as for maintenance.

Benefits:

- **Low tare weight, thereby less energy consumption of the robots, lower wear and minimal maintenance**
- **Robust construction**
- **Safe and stable handling**
- **Gentle gripping of materials**

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

MORALI VACTEC SYSTEMS

Notizen

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Allzwecksauger | *Multi purpose cups*



Beschreibung:

- Diese Vakuumsauger sind mit die am häufigsten verwendeten Saugnäpfe in der Handlingstechnik.
- Aufgegliedert in folgenden Bauformen ergibt sich für Anwender ein breit gefächertes Spektrum an Vakuumgreifern in verschiedenen Materialien wie Nitrilkautschuk (NBR), Naturgummi und verstärktem Silikon (rotbraun).
- Die Flachsauger sind aufgrund ihrer Geometrie besonders geeignet, um nicht deformierbare Teile mit ebener oder leicht gewölbter Oberfläche bei gleichzeitig hoher Haltekraft positionsgenau z.B. bei Roboteranwendungen handzuhaben.
- Die Balgensaugnäpfe besitzen durch die Anzahl der Falten eine große Flexibilität. Neben der umfangreicheren Hubbewegung lassen sich durch die erhöhte Biegsamkeit auch konkave oder konvexe Produkte prozesssicher greifen.

Description:

- *These vacuum cups are with the most often used suckers in the field of handlings technology.*
- *Split up in the following construction forms a diversified spectrum of vacuum grip arms arises for users in different materials like Nitrile rubber (NBR),natural rubber and reinforced silicone (red-brown).*
- *The flat suction cups are suitable on account of her geometry to handle not deformable parts with plane or slightly curveded surfaces and at the same time high hold force with positional accuarcy for e.g. robot applications.*

- *The bellows vacuum cups own by the number of the folds a big flexibility certainly.*

Einsatz

- Allzweckeinsatz
- Glatte, ebene Produkte
- Beispiele: Kartonagen, Verpackung, Holz, Metall, Stein.

Application:

- *Universal insertion*
- *Smooth, plane produtcs*
- *Examples: Cardboard, packaging, wood, metal, stone.*

Prime VAC I *Prime VAC*

Ausführungen | *Version*

- Inklusive Anschlussteil, vulkanisiert - wahlweise mit Innen- oder Außengewinde
- *Inclusive fitting, vulcanized- optionally with female or male thread*

Flachsauger von Ø 20 bis Ø 96 mm | ***flat cups*** *from* Ø 20 to Ø 96 mm



- Sie eignen sich sehr gut für kurze Taktzeiten und besitzen eine hohe Tragfähigkeit bei ebenen Produktoberflächen.
- Zusätzlich ist ein hoher Widerstand gegenüber seitlichen Kräften gegeben.

- *The cups suited very well for short cycles times and own a high load-carrying capacity at plane product surfaces.*
- *Compared with lateral forces a high restance is given.*

1,5 Faltenbalgsauger von Ø 14 mm bis Ø 85 mm | ***1,5 folds suction cups*** *from Ø 14 mm bis Ø 85 mm*



- Steckbare Anschlussteile wahlweise Innen-/Außengewinde bis Ø 60 mm
- (Ausnahme: Ø 85 mm vulkanisiert)
- Der Faltenbalg ermöglicht eine flexible Aufnahme unebener und leicht gewölbter Teile und gleicht Höhenunterschiede aus.

- *Plug- in fittings optional female and male threads to 60 mm*
- *Exception 85 mm vulcanized.*
- *The vacuum cup allows a flexible picking of uneven and slightly curveded parts and compensates height differences.*

2,5 Faltenbalgsauger von Ø 10 mm bis Ø 85 mm | ***2,5 folds suction cups*** from Ø 10 mm to Ø 85 mm



- Steckbare Anschlussteile wahlweise Innen-/Außengewinde bis Ø 60 mm (Ausnahme: Ø 85 mm ist vulkanisiert)
- Die zusätzlichen Falten dieser langen Ausführung dienen zum Ausgleich größerer Höhenunterschiede durch ein entsprechendes Hubverhalten dieser Vakuumsauger.

- *Plug-in fittings optional female and male threads to 60 mm*
- *Exception 85 mm vulcanized.*
- *The additional folds of this long version serve for the balance of bigger height differences by a suitable travel behaviour of these vacuum cups.*

Flachsauger | Flat cups

Anschluss aufvulkanisiert | *connection vulcanized*

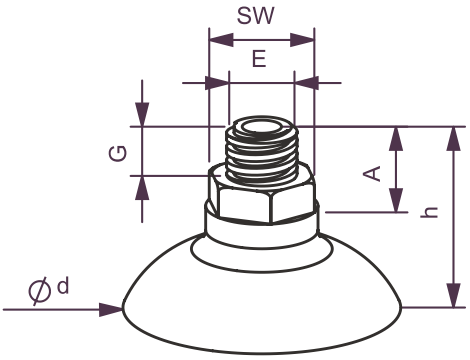


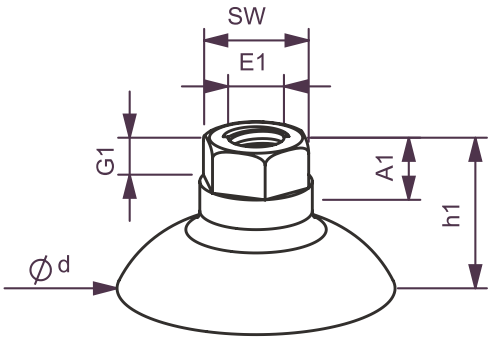
Technische Daten:

- Diese Flachsauggreifer inkl. Fitting bilden eine feste Einheit. Deshalb ist auch bei hohen Verfahrgeschwindigkeiten oder bei stark beschleunigten Schwenkbewegungen das prozesssichere Festhalten der Werkstücke gewährleistet.

Technical data:

- The flat suction cup incl. fitting form a solid unit. Therefore a process safety of the workpieces is guaranteed by high movement speeds of strongly swivel moments.





AG	IG	d	h	h1	A	A1	E	E1	G	G1	SW	Z
14.020.052._	13.020.074._	20	24	24	12	12	G1/8“	G1/8“	8	8	14	3,5
14.034.053._	13.034.075._	34	29	29	15	15	G1/4“	G1/4“	10	12,5	17	2,5
14.053.003._	13.053.012._	53	33	33	15	15	G1/4“	G1/4“	11	11	17	3
14.075.004._	13.075.013._	75	43	43	18	18	G1/4“	G1/4“	12	12	22	4
14.096.005._	13.096.014._	96	62	62	17	17	G1/4“	G1/4“	12	12	22	8

AG = Außengewinde / male thread | IG = Innengewinde / female thread

In den Standardmaterialien verfügbar, Sondermischungen auf Anfrage.

Available in the standard materials, special versions on request.

Prime VAC I *Prime VAC*

1,5 Faltenbalg | *1,5 folds*

Ersatzsauger- austauschbar | *Replacement cup- exchangeable*

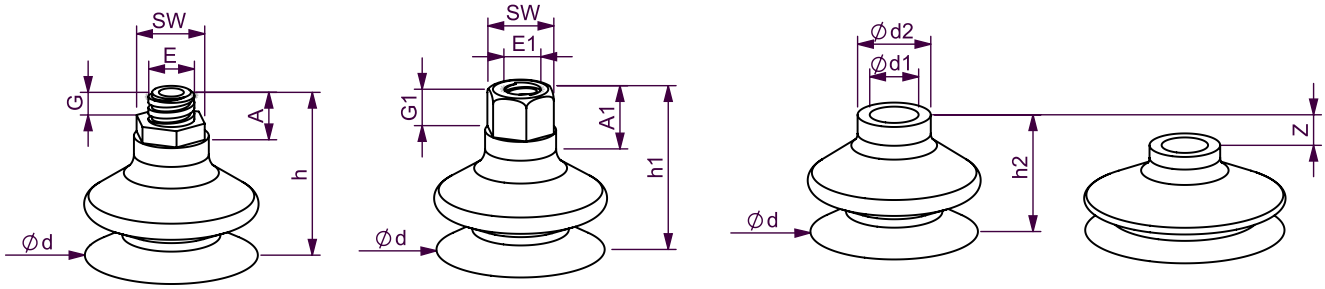


Technische Daten:

- Größerer Hub und mehr Flexibilität als Flachsauger.
- Austauschbare Anschlussteile mit Innen- oder Aussengewinde stehen in diversen, marktüblichen Gewindegrößen dem Anwender in ausreichender Auswahl zur Verfügung.

Technical data:

- *Bigger travel and more flexibility than flat suction cups.*
- *Changeable fittings with female or male threads can be chosen in various, market-customary thread sizes.*



AG	IG	Ersatzsauger *Replacement cup*	d	h	h1	h2	A	A1	d1	d2	E	E1	G	G1	SW	Z
212.014.001._	211.014.009._	210.014.064._	14	31,5	30	18	12	13,5	5	12	G1/8“	G1/8“	8	7,5	14	8
212.025.002._	211.025.010._	210.025.065._	25	37	37	22	15	15	8	18,5	G1/4“	G1/4“	12	12	17	5
212.040.003._	211.040.011._	210.040.066._	40	47	47	32	15	15	8	18,5	G1/4“	G1/4“	12	12	17	13
212.060.004._	211.060.012._	210.060.023._	60	55	55	40	15	15	8	18	G1/4“	G1/4“	12	12	17	15
214.085.002._	213.085.009._	–	85	75	75	58	17	17	–	–	G1/4“	G1/4“	10	12	22	13

AG = Außengewinde / male thread | IG = Innengewinde / female thread

In den Standardmaterialien verfügbar, Sondermischungen auf Anfrage.

Available in the standard materials, special versions on request.

2,5 Faltenbalg | *2,5 folds*

Saugnäpfe mit großem Hub | *cups with big stroke*

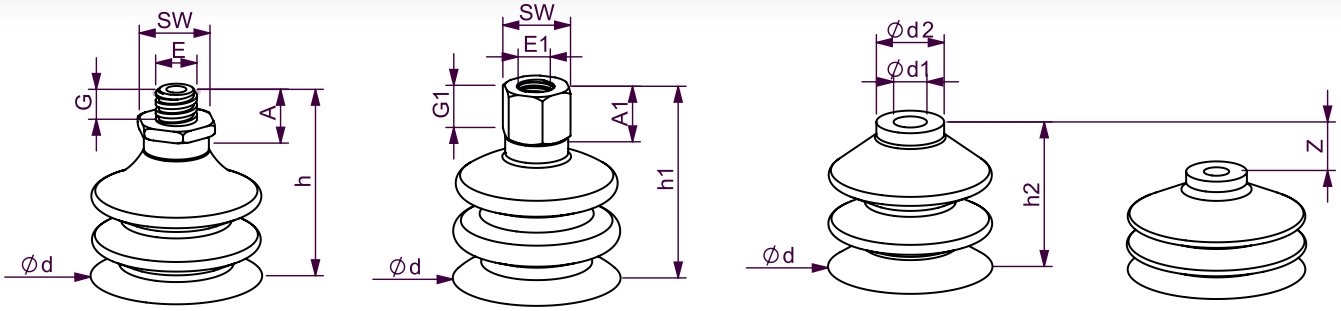


Technische Daten:

- Für große Hubbewegungen
- Überbrückung unterschiedlicher Niveaus.
- Diese Version ermöglicht das Greifen unter einem Winkel- ähnlich einem flexiblen Gelenk.

Technical data:

- *For big travel movements*
- *Bridging of different levels.*
- *This version allows the gripping under an angle like a flexible joint.*



AG	IG	Ersatzsauger *Replacement cup*	d	h	h1	h2	A	A1	d1	d2	E	E1	G	G1	SW	Z
222.010.001._	221.010.003._	220.010.021._	10	28,1	27,7	15,7	12	12,4	5,3	10,2	G1/8“	G1/8“	8	8,2	14	3
222.014.002._	221.014.004._	220.014.023._	14	36,5	35	23	12	13,5	5	12	G1/8“	G1/8“	9	7,5	14	10
222.018.003._	221.018.005._	220.018.001._	18	34,4	34	22	12	12,4	5	12	G1/8“	G1/8“	8	8,2	14	8
222.030.004._	221.030.006._	220.030.006._	30	50	48	33	15	15	8	19	G1/4“	G1/4“	12	12	17	13
222.040.005._	221.040.007._	220.040.010._	40	60	60	45	15	15	8	19	G1/4“	G1/4“	12	12	17	20
222.060.006._	221.060.010._	220.060.026._	60	70	70	55	15	15	8	19	G1/4“	G1/4“	12	12	17	24
224.085.001._	223.085.007._	–	85	100	96	78	17	17	–	–	G1/4“	G1/4“	10	12	22	38

AG = Außengewinde / male thread | IG = Innengewinde / female thread

In den Standardmaterialien verfügbar, Sondermischungen auf Anfrage.

Available in the standard materials, special versions on request.

Vulkanisierte Vakuumsauger | *Vulcanized vacuum cups*



Beschreibung:

- Diese Vakuumsauger mit einvulkanisiertem Befestigungsgewinde garantieren eine hervorragende Stabilität beim Handling ! Die große Produktpalette bietet sich für nahezu jeden Einsatzbereich an.
- Diese Sauger sind universell einsetzbar für Produkte mit glatten und luftdurchlässigen Oberflächen. Bedingt durch ihre Bauform passen sie sich äußerst gut an gewölbte Flächen an.
- Ein bedeutender Vorteil dieser Sauggreifer ist das vulkanisierte Anschlussteil, welches mit dem Elastomermaterial eine feste Einheit bildet. So ist auch bei sehr hohen Verfahrgeschwindigkeiten oder bei stark beschleunigten Schwenkbewegungen das prozesssichere Festhalten der Werkstücke garantiert.

Description:

- *The vacuum cup with vulcanized thread guarantee an excellent stability at the handling ! The big range of products offers for nearly every area of application. These suckers are universally applicable for products with smooth and aerial-permeable surfaces. Caused by the construction form they adapt themselves extremely well to curveded surfaces.*

- *An important advantage of this suction grip arm is the vulcanized fitting which forms a solid unit with the elastomer material. So process safety of the workpieces is guaranteed by high movement speeds or strongly swivel moments.*

Einsatz

- Kunststoffindustrie
- Verpackungindustrie (Kartonagen)
- Möbelindustrie
- Automobilzulieferindustrie

Application:

- *Plastic industry*
- *Packaging industry (cardboard)*
- *Furniture industry*
- *Automobile ancillary industry*

Ausführungen | *Versions*

- Inklusive Anschlussteil, vulkanisiert - wahlweise mit Innen- oder Außengewinde
- *Incl. fitting, vulcanised - with female or male thread*

Vulkanisierte Flachsauger mit Außengewinde | *Vulcanized flat cups with male thread*



- Sie eignen sich aufgrund des einvulkanisierten Befestigungsgewindes sehr gut für hohe Beschleunigungen und garantieren eine hohe Stabilität beim Handling.

- *The cups suited very well for fast accelerations, because of the vulcanized fastening thread and guarantee a high stability with the handling.*

Vulkanisiert mit Außengewinde| *Vulcanized bellow cups with male thread*



- Sie vereinen die positiven Eigenschaften der Flachsauger mit einvulkanisiertem Befestigungsgewinde mit der zusätzlichen Dämpfungseigenschaft der Hubbewegung durch den Faltenbalg.

- *They unite the positive qualities of the flat suction cups with vulcanized thread and the additional damping quality of the bellow when travelling.*

Universal VAC I *Universal VAC*

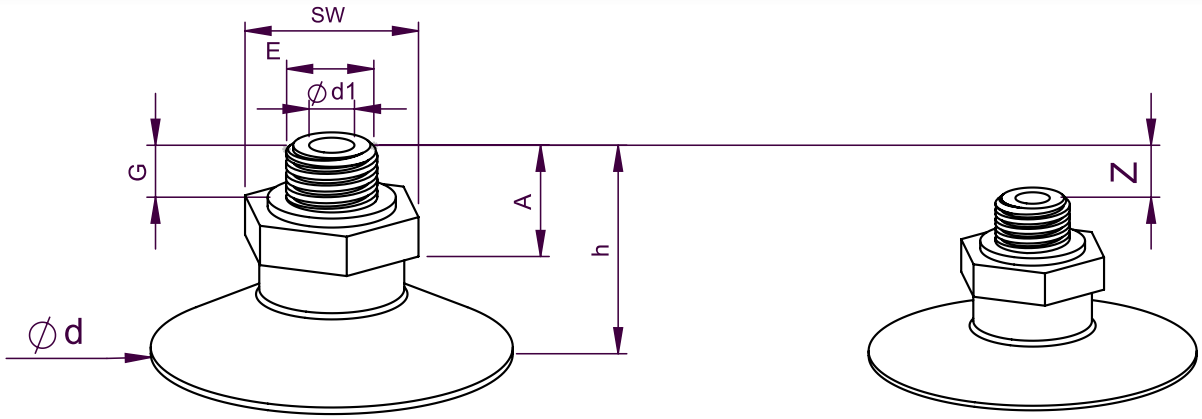
Flachsauger | *Flat cups*

Sauggreifer für Schwenkbewegungen | *cups for swivelling movements*



- Eine Kompakte Einheit,
- Bilden eine außerordentliche Stabilität , sind unverzichtbar bei Roboteranwendungen.

- *A compact unit*
- *Form an extraordinary stability*
- *Are inalienable with robot applications.*



AG	d	E	h	A	G	SW	Z
14.008.041._	8	M5	19,2	11,5	4	8	1
14.010.042._	10	M5	19,2	11,5	4	8	1
14.015.043._	15	G1/8“	20	12	4,7	13	1,2
14.030.044._	30	G1/8“	21,5	12	4,7	13	2
14.040.045._	40	G1/4“	32,5	19	5,8	17	3
14.055.046._	55	G1/4“	35,5	19	5,8	17	3,5
14.075.047._	75	G1/4“	29	18	5,8	17	3,5
14.100.048._	100	G1/4“	29	18	5,8	17	3,5
14.125.049._	125	G3/8“	36	20	6	19	6

AG = Außengewinde / male thread
In den Standardmaterialien verfügbar, Sondermischungen auf Anfrage.
Available in the standard materials, special versions on request.

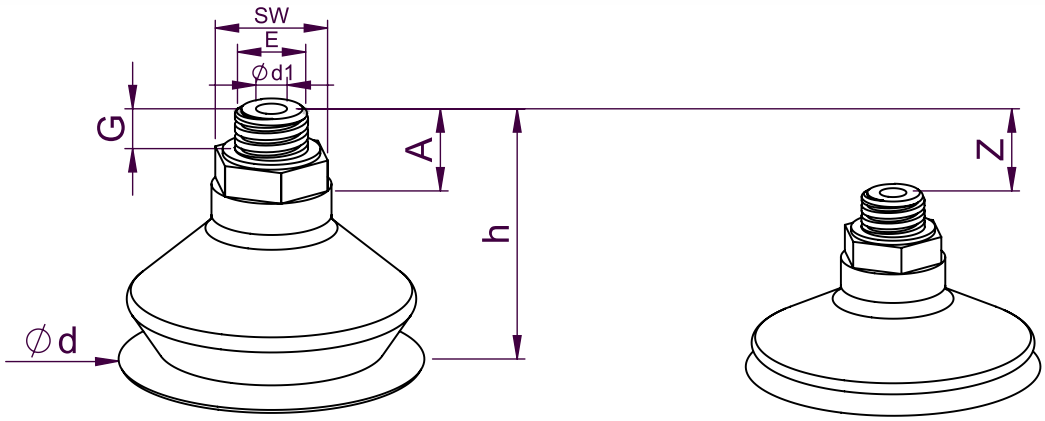
1,5 Faltenbalg | *1,5 folds*

Sauger für Roboteranwendungen | *Cups for robot applications*



- größerer Hub und mehr Flexibilität.
- Hervorragende Anpassungsfähigkeit an unebene und leicht gewölbte Teile durch der Faltenbalg.

- *More travel and flexibility.*
- *Excellent adaptability on uneven and slightly curveded parts by the bellow.*



AG	d	d1	E	h	A	G	SW	Z
214.008.011._	8	2	M5	22,5	11,5	3,5	8	3
214.015.012._	15	3	G1/8“	25,5	12	4,7	13	6
214.030.013._	30	3	G1/8“	34	12	4,7	13	13
214.040.014._	40	3	G1/4“	43	16	5,8	17	14
214.055.015._	55	4	G1/4“	52	16	5,8	17	20
214.075.016._	75	4	G1/4“	43,5	16	5,8	17	14,5
214.100.017._	100	4	G1/4“	43,5	16	5,8	17	14,5
214.125.018._	125	7	G3/8“	60	20	6	19	26

AG = Außengewinde / male thread
In den Standardmaterialien verfügbar, Sondermischungen auf Anfrage.
Available in the standard materials, special versions on request.

Klassische Vakuumsauger in großer Vielfalt | *Classical vacuum cups in great variety*



Beschreibung:

- Diese klassischen Sauggreifer stehen für ein breites Anwendungsspektrum. Ihre vielfältige Form reicht von Faltenbalgsaugern mit 1,5 und 2,5 Falten bis hin zu Ovalsaugern in verschiedenen Materialien.
- Für Einsatzzwecke, bei denen höhere Temperaturen gefordert werden, z.B. bei der Entformung von Produkten in der kunststoffverarbeitenden Industrie sind diese Vakuumsauger in den Materialien Silikon (bis + 200°C) und HNBR (bis + 160°C) erste Wahl.
- Beim Ansaugen von Blechen, Holzplatten, Glas, Kartonagen kommen diese Saugnäpfe überwiegend in den Materialien NBR und Naturkautschuk zur Anwendung.
- Typische Einsatzbereiche für die Flachsauger in kleineren Baugrößen bis Durchmesser 40 mm- bestehend aus Naturgummi und Silikon- sind die Handhabung von Papier, Folien, Blisterverpackungen und Furnier.
- Eine Sonderbauform stellen die Ovalsauger dar, die zum Handling von länglichen flachen oder gewölbten Teilen sich bestens anbieten.

Description:

- *The classical suction cups stand for a wide application spectrum. The varied form reaches from bellows suction cups with 1,5 and 2,5 folds up to oval cups in different materials.*
- *For the purposes where higher temperatures are demanded, e.g. with the demoulding of products in the plastic processing industry, the vacuum cups in the materials silicone (to + 200° C) and HNBR (to + 160° C) are the first choice.*
- *Predominantly to the application of suctioning metal sheets, boards, glass and cardboards the materials NBR and natural rubber are mainly used.*
- *Typical applications for the flat suction cups in smaller sizes up to diameter 40 mm for handling paper, foils, blister packaging and veneer are natural rubber and silicone.*
- *The oval cups represent a special design and offers best for handling long flat or curved parts.*

Ausführungen | *Version*

- Inklusive Anschlussteil, vulkanisiert - wahlweise mit Innen- oder Außengewinde
- *Incl. fitting, vulcanised - with female or male thread*

Flachsauger | *flat cups*



- Die vielfältigen Flachsaugerformen ermöglichen je nach Bedarf den Einsatz in einem breitgefächertenAnwendungsspektrum.
- Für das präzise Handling von ebenen Werkstücken ebenso wie zum Greifen von Papier und Folien.

- *The varied flat suction cup forms allow according to the use requirement a diversified application spectrum.*
- *For the exact handling of plane workpieces just as to the griffin of paper and foils.*

1,5 Faltenbalgsauger | *1,5 fold suction cups*



- Faltenbalgsaugnäpfe passen sich sehr gut an gewölbte Flächen und Unebenheiten an. Dies ist eine wesentliche Eigenschaft, die es erlaubt, diese Sauger branchenübergreifend einzusetzen.

- *Bellow cups adapt themselves very well to curveded surfaces and unevennesses. This is an essential quality, which it permissible to use these cups branch-covering.*

2,5 Faltenbalgsauger | *2,5 fold suction cups*



- Typische Faltenbalgsauger z.B. für den Einsatz an Spritzgussmaschinen zur Teilentnahme. Sie passen sich sehr gut an stark gewölbte Flächen an und besitzen optimale Dämpfungseingenschaften.

- *Typical vacuum cups, e.g., for the application of the part withdrawal of an injection molding machine. They adapt themselves very well to strongly convex surfaces and have optimum damping qualities.*

Ovalsauger | *Oval suction cups*

- Inklusive Anschlussteil, vulkanisiert - wahlweise mit Innen- oder Außengewinde
- *Incl. fitting, vulcanised - with female or male thread*

Ovalsauger | *Oval suction cups*

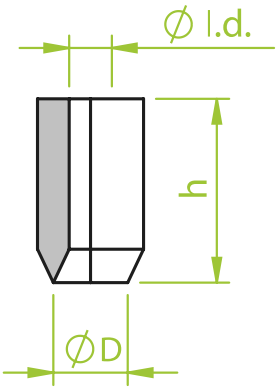


- Besonders geeignet zur Handhabung von länglichen flachen, gewölbten, zylindrischen Produkten, z.B. Rohre, Profile, Tuben.
- Diese Ovalsauger besitzen eine weiche Dichtlippe.

- *Particularly suitably to the use of long, level, curveded, cylindrical products, for example, pipe, profiles, tubes.*
- *These oval cups own a soft thick lip.*

Zum Handling kleinster Produkte | *For the handling of smallest products*

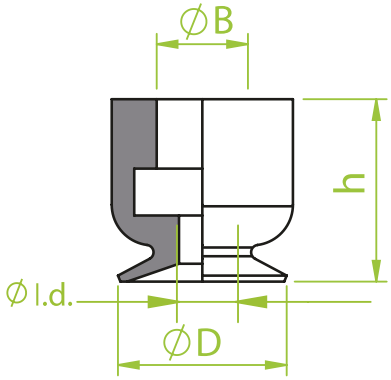




Art.	D	I.d.	h			Gewinde *Thread*
10.001.108._	1	0,8	1,6	0,1	130.026	M3 AG
10.001.109._	1,5	1,2	2,5	0,3	130.011	M3 AG

Kompakte Flachsauger für leichte Teile | *Compact flat cups for lightweight parts*

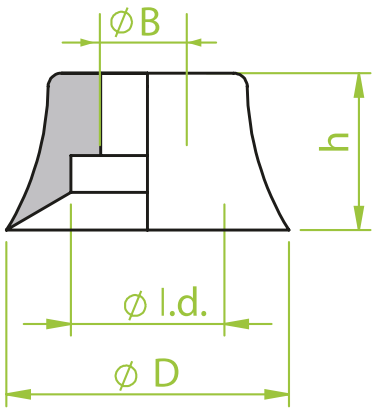




Art.	D	I.d.	h	B			Gewinde *Thread*
10.002.130._	2,5	1,2	4	2	0,4	130.014	M3 AG
10.003.040._	3,5	1	4	2	0,5	130.014 130.300	M3 AG M5 AG
10.005.131._	5	1,5	6,5	4	0,9	130.005 130.007 130.009 130.010 130.301	M5 IG 1/8" IG 1/8" AG M5 AG M5 AG
10.006.021._	6	2	6,5	4	1	130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG
10.008.136._	8	2	7	4	1,4	130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG
10.010.138._	10,8	2	7,5	4	1,2	130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG

Hohe Saugkräfte bei geringen Abmessungen | *High suction forces with small dimensions*

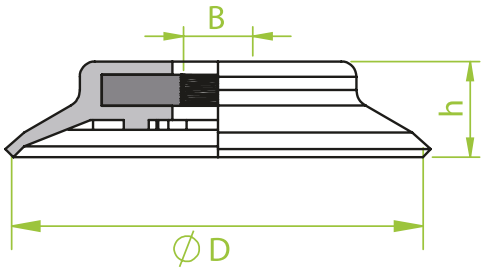




Art.	D	I.d.	h	B			Gewinde *Thread*
10.015.139._	16,3	7,9	8	4,5	2	130.005 130.010 130.021	M5 IG M5 AG 1/8“ AG
10.020.019._	21	11	10	4,5	2	130.006 130.019 130.030 130.274 130.275	1/8“ AG 1/8“ IG 1/8“ AG 1/4“ AG 1/4“ IG
10.025.141._	25	11	14	6	2,5	130.019 130.030 130.274 130.275 130.312	1/8“ IG 1/8“ AG 1/4“ AG 1/4“ IG M6 AG
10.030.142._	30	11,1	12,2	6	2	130.019 130.030 130.274 130.275 130.312	1/8“ IG 1/8“ AG 1/4“ AG 1/4“ IG M6 AG
10.035.143._	36	11	14	6	3	130.019 130.030 130.274 130.275	1/8“ IG 1/8“ AG 1/4“ AG 1/4“ IG
10.040.144._	40	11	14	6	3	130.019 130.030 130.274 130.275 130.312	1/8“ IG 1/8“ AG 1/4“ AG 1/4“ IG M6 AG
10.050.017._	50	20	15	8	3,5	130.012 130.020 130.034 130.314	1/8“ AG 1/8“ IG 1/4“ AG M6 AG

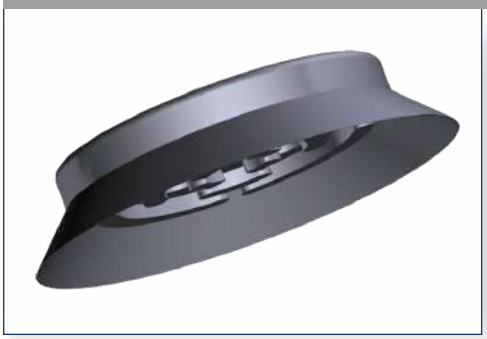
Positionsstabile Flachsauggreifer | *Position-stable flat cups*

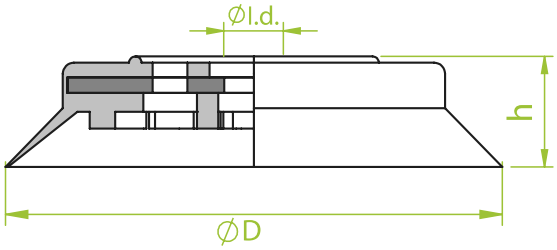




Art.	D	I.d.	h	B			Gewinde *Thread*
13.060.006._	62	–	16	IG 1/4“	5	130.090 130.176	1/4“ AG 1/4“ AG
13.080.007._	80	–	18	IG 1/4“	6	130.090	1/4“ AG
13.095.008._	95	–	19	IG 1/4“	6	130.090	1/4“AG

Flachsauger mit Metallkernverstärkung| *Flat cups with metal core reinforcement*

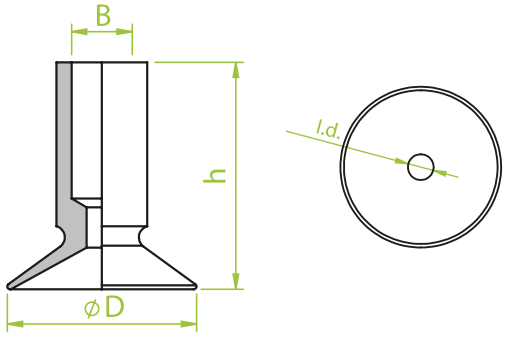




Art.	D	I.d.	h			Gewinde *Thread*
13.120.009._	117	14	25,5	5	130.056	1/2“ IG
13.150.010._	150	13,5	32,5	7	130.056	1/2“ IG
13.191.011._	193	13	37,5	12	130.056	1/2“ IG

Flachsauger mit langem Schaft | *Flat cups with long shaft*

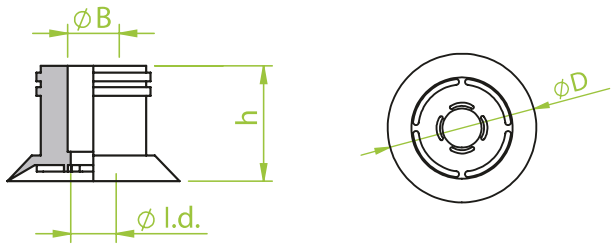




Art.	D	l.d.	h	B			Gewinde *Thread*
10.006.150._	6,5	1	12	2	2	–	–
10.010.191._	10	2	12	3	1	–	–
10.016.243._	16	3	20	5	5	130.013 130.023 130.109 130.194 130.238	M5 AG M5 AG 1/8" IG 1/4" AG 1/8" AG
10.025.350._	25	4	30	8	5	130.043 130.114	1/4" AG 1/8" IG
10.040.357._	40	4,4	40	11	4	130.049	1/4" AG
10.068.520._	68	8	62	20	10	–	–

Flachsauger für Papier und Folien | *Flat cups for paper and foils*

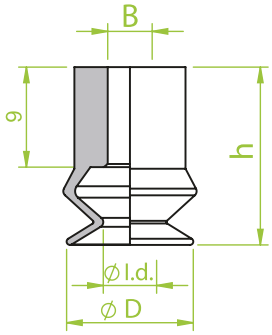




Art.	D	l.d.	h	B			Gewinde *Thread*
10.015.031._	15	3,5	10	4	1	–	–
10.020.613._	20,5	4	10,4	4,5	2	–	–
10.026.032._	25,7	4	11	4	1	130.003 130.013 130.033 130.087	1/8" AG M5 AG 1/8" AG 1/8" AG
10.030.102._	30,7	6	23,2	11	3	130.609	1/4" AG
10.034.397._	34	6	20	6	3	130.274 130.275	1/4" AG 1/4" IG
10.040.101._	40	5	20	8	2	130.019 130.030 130.113	1/8" IG 1/8" AG 1/4" AG

Balgensauger mit optimalem Dämpfungseffekt | *Bellow cups with an optimal damping effect*

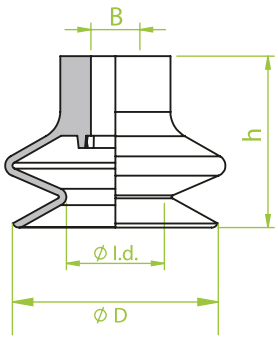




Art.	D	I.d.	h	B			Gewinde *Thread*
210.011.141._	11,4	4,8	16	4	4,5	130.003 130.013 130.015 130.103	1/8“ AG M5 AG 1/8“ IG M6 AG
210.013.201._	13	4,8	15	3,8	4	130.087 130.317	1/8“ AG M5 AG
210.016.009._	16	8,6	19	3,7	6	130.003 130.015 130.104 130.134	1/8“ AG 1/8“ IG M6 AG M5 AG
210.019.155._	19,5	10	15,5	4	4	130.003 130.013 130.103 130.109 130.194	1/8“ AG M5 AG M6 AG 1/8“ IG 1/4“ AG
210.022.177._	22	11	17,5	4	8	130.003 130.013 130.015 130.103	1/8“ AG M5 AG 1/8“ IG M6 AG
210.025.137._	25	9,5	23	3,8	9	130.003 130.013 130.103 130.109	1/8“ AG M5 AG M6 AG 1/8“ IG

Sehr gute Anpassung an gewölbte Werkstücke | Very good adaption to curved work pieces

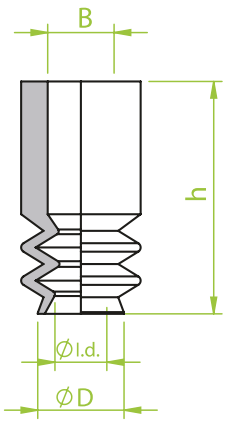




AG	D	I.d.	h	B			Gewinde *Thread*
210.033.022._	33	16	28	8	12	130.114 130.132 130.190 130.192	G1/8“ IG G1/8“ AG G1/4“ AG G1/4“ IG
210.043.005._	43	21,2	28	8	12		
210.053.017._	53	33	34	8	11		
210.078.131._	78	53	47	12	14	130.622 130.623	G1/4“ AG G1/4“ IG

Kleine Balgensauger mit großem Hub | *Small bellow cups with big travel*

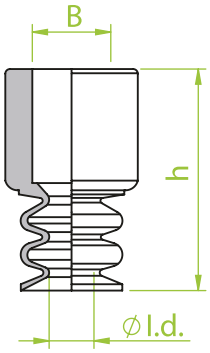




Art.	D	l.d.	h	B			Gewinde *Thread*
220.005.017._	5,2	3,1	14	4	3	130.104 130.134 130.627	M6 AG M5 AG M5 AG

Kleine Balgensauger mit flexibler Dichtlippe I *Small bellows cups with flexible sealing-lip*

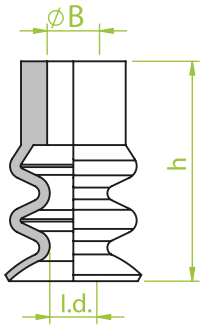


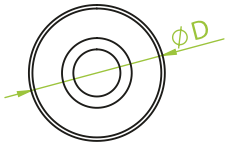


AG	D	l.d.	h	B			Gewinde *Thread*
220.006.032._	6,5	2,6	14,5	5	3,5	130.003 130.015 130.024	G1/8“ AG G1/8“ IG M5 AG
220.009.105._	10	4,2	15	4	2	130.003 130.015 130.103	1/8“ AG 1/8“ IG M6 AG

Sehr flexible Balgensauger | *Very flexible bellows cups*

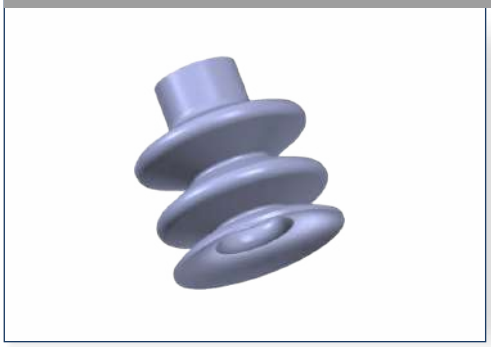


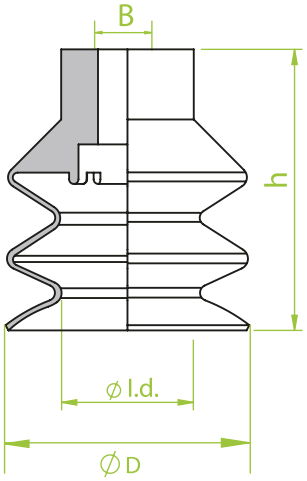




Art.	D	l.d.	h	B			Gewinde *Thread*
220.012.108._	12	5	21	3,8	7	130.013 130.194 130.238	M5 AG 1/4“ AG 1/8“ AG
220.014.009._	14	5	22	4	12	130.003 130.013 130.015 130.103	1/8“ AG M5 AG 1/8“ IG M6 AG
220.018.063._	18,5	7,8	22	4,5	8	130.003 130.013 130.015 130.103 130.194 130.275	1/8“ AG M5 AG 1/8“ IG M6 AG 1/4“ AG 1/4“ IG
220.020.107._	20	10	23	4	8	130.003 130.013 130.015 130.103 130.194	1/8“ AG M5 AG 1/8“ IG M6 AG 1/4“ AG
220.025.113._	25	10	34	3,9	19	130.003 130.013 130.103 130.109 130.066 130.194	1/8“ AG M5 AG M6 AG 1/8“ IG 1/4“ AG 1/4“ IG

Flexible Balgensauger mit großem Hub | *Flexible bellows cups with big travel*

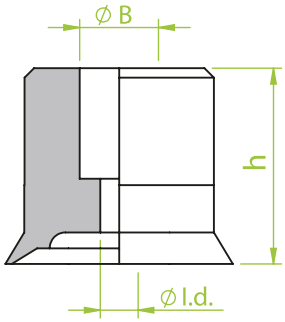


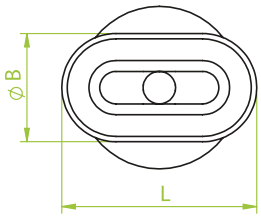


Art.	D	l.d.	h	B			Gewinde *Thread*
220.032.003._	32	16	37,5	8	13	130.114 130.132 130.190 130.192 130.315	1/8" IG 1/8" AG 1/4" AG 1/4" IG M6 AG
220.043.004._	42	16	45	8	19	130.114 130.132 130.190 130.192	1/8" IG 1/8" AG 1/4" AG 1/4" IG
220.062.035._	62,2	29	55	8,5	25	130.092 130.093 130.281 130.282	1/8" IG 1/8" AG 1/4" AG 1/4" IG
220.088.036._	88	28	85	12	35	130.184	1/4" AG

Flache Sauggreifer in ovaler Bauform | *Flat suction gripper in oval design*



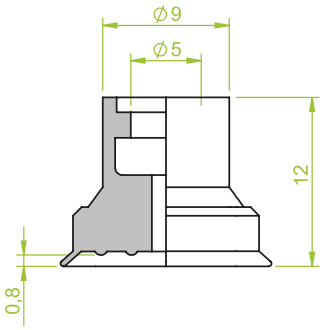


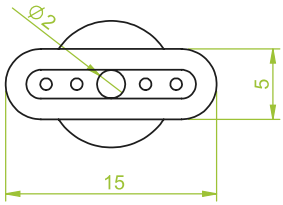


Art.	LxB	I.d.	h	Ø B			Gewinde *Thread*
30.004002.003._	4,3 x 2,5	1,2	6	2,6	0,5	130.300	M5 AG
30.007004.005._	7,2 x 4	1,2	6,2	2,5	0,8	130.014 130.111 130.300 130.025	M3 AG M4 AG M5 AG M3 AG
30.012004.029._	12x4	1,5	15	4	0,5	130.024 130.104 130.134	M5 AG M6 AG M5 AG

Flache Sauggreifer in ovaler Bauform | *Flat suction gripper in oval design*







Art.	LxB	I.d.	h	Ø B			Gewinde *Thread*
30.015005.017._	15x5	2	11,5	5	1	130.005 130.094 130.103 130.095 130.096	M5 IG M5 AG M6 AG 1/8“AG 1/8“ IG
30.018006.018._	18x6	1	12	4,5	1	130.013 130.005 130.103 130.095 130.096	M5 AG M5 IG M6 AG 1/8“ AG 1/8“ IG
30.024008.019._	24x8	1,5	12	5,5	1	130.005 130.094 130.103 130.095 130.096	M5 IG M5 AG M6 AG 1/8“AG 1/8“ IG
30.030010.020._	30x10	3,4	12	4,5	2		
30.036012.021._	36x12	3,4	12	4,5	2		
30.045015.022._	45x15	4	21	13,2	3	130.097 130.098 130.245	1/4“AG 1/4“IG 1/4“AG
30.060020.023._	60x20	5	21	11	4		
30.075025.024._	75x25	3,5	22	11	3		
30.085028.025._	85x28	5	22	11	4		

Weitverbreitete Vakuumsauger für vielseitigen Einsatz | *Wide spread vacuum cups for versatile use*



Beschreibung:

- Durch ihre besondere Form zeichnen sich diese hier abgebildeten Flach- und Balgensauger aus. Die Einsatzbereiche sind vielfältig und reichen von der einfachen Anwendung ebener und leicht gewölbter Flächen bis hin zu Applikationen, bei denen große Hubhöhen notwendig sind.
- Neben den einfachen Standard-Flachsaugern existieren solche mit integrierten Abstützrippen, die eine Verformung des angesaugten Gegenstandes verhindern. Außerdem verleihen sie dem Saugnapf eine gute Stabilität und erhöhen die Haltekraft durch die Vergrößerung der aktiven Ansaugfläche.
- Typische Anwendungen, bei denen diese Sauger vorwiegend zur Anwendung kommen:
- Ansaugen von Kartonagen in dünnen Blechen, Kunststoffplatten, Glas, Beuteln und Säcken …
- Für sämtliche dieser Vakuumsauger stehen Anschlussteile mit Innen- oder Außengewinde zur Verfügung.

Einsatz

- Kunststoffindustrie
- Verpackung
- Holz, Metall

Description:

- *These flat and bellows cups illustrated here distinguish themselves by her special form. The areas of application are varied and reach from the easy application of plane and slightly curveded surfaces up to applications by which big vertical lifts are necessary.*

- *Beside the standard flat suction cups those exist with integrated cleats which prevent a deformation of the sucked object. Moreover, the cup has a good stability and raise the hold force by the enlargement of the active suction surface.*

- *Typical applications of these cups are mainly: Suctioning from cardboards, thin metal sheets, plastic panels, glass, bags and sacks*

Fittings with female and male thread are available for all these vaccum cups.

Application:

- *Plastic industry*
- *Packaging*
- *Wood, metal*

Flachsauger | *Flat cups*

Flachsauger mit und ohne Abstützrippen | *Flat cups with and without cleats*

Einleitungstext:

- Besonders geeignet für flache Objekte wir Kartonagen, Bleche, Glas, Elektronik- und Halbleiterprodukte.
- Die Sauger verfügen über eine hohe Saugkraft und sind bei Verschleiß leicht auszutauschen.

Introduction text:

- *Particularly suitably for plane objects like cardboard packagings, metal sheets, glass, electronics and semiconductor products.*
- *The cups dispose of a high suction force and are easy to change.*

langer Schaft
long shaft



- Durchmesser: 5 bis 16 mm
- Für Universaleinsatz

- Diameter: 5 to 16 mm
- For universal use

Einfache Ausführung
Basic design



- Durchmesser: 22 bis 52 mm
- Für ebene oder leicht gewölbte Flächen

- Diameter: 22 to 52 mm
- For plane and easily curved surfaces

Inkl. Abstützrippen
incl. cleats



- Durchmesser: 22 bis 52 mm
- Hohe Eigenstabilität

- Diameter: 22 to 52 mm
- High stability

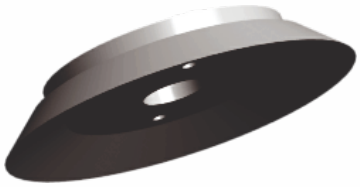
Glockensauger
Bell-shaped cups



- Durchmesser: 22 bis 53 mm
- Tiefe Bauform: Zum Greifen von Ecken und Kanten

- Diameter: 22 to 53 mm
- Deep construction form: To the griffin of rough edges

Scheibenförmige Flachsauger
Disc-shaped flat cups



- Durchmesser: 75 bis 150 mm
- Für ebene Flächen und schwere Lasten

- Diameter: 75 to 150 mm
- For planes surfaces and heavy loads

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger mit unterschiedlichem Federweg | *Bellow cups with different travel*

Einleitungstext:

- Besonders geeignet bei Anwendungen, die eine Höhenanpassung bei unregelmäßigen Oberflächen erfordern, z.B. Abgestufte Kunststoffteile, Wellbleche usw.
  Der Balg ermöglicht außerdem eine Vertikale Hubbewegung, die es erlaubt dünne Gegenstände voneinander zu trennen.

Introduction text:

- *Particularly suitably with applications which require a height adaptation with irregular surfaces, e.g., gradated plastic parts, corrugated irons etc.*
  Moreover, the bellow allows a vertical travel movement, which to separate it permissible thin objects of each other.

langer Schaft
long shaft



- Durchmesser: 5 bis 16 mm
- 1,5 Falten
- Für leichte Objekte

- Diameter: 5 to 16 mm
- 1,5 folds
- For light objects

Einfache Ausführung
Basic design



- Durchmesser: 20 bis 52 mm
- 1,5 Falten
- Für Hubausgleich bis max. 12 mm

- Diameter: 75 to 150 mm
- 1,5 folds
- For bigger loads

Mit innerer Abstützung
With support structure



- Durchmesser: 75 bis 150 mm
- 1,5 Falten
- Für größere Lasten

- Highlights
- Highlights: *Ø 85 mm vulkanisiert)*
- Highlights*gewölbter Teile und gleicht Höhenunterschiede aus.*

Mehrfaltensauger
Multi-bellows cups



- Durchmesser: 20 bis 50 mm
- 4,5 Falten
- Für großen Hubausgleich

- Diameter: 20 to 50 mm
- 4,5 folds
- For big travel balances

MORALI VACTEC SYSTEMS

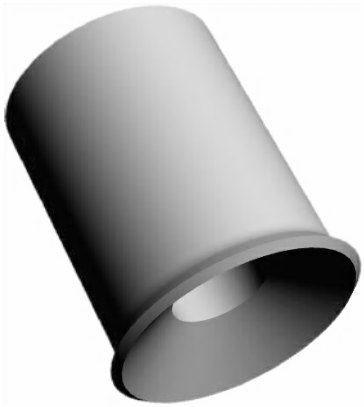
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

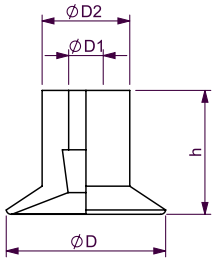
Email: info@morali-gmbh.de
www.morali-gmbh.de

Flachsauger mit langem Schaft | *Flat cups with long shaft*

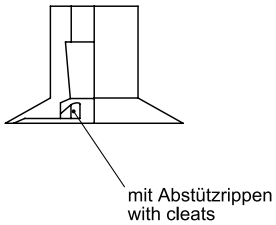


- Flachsauger Ø5 – Ø16 mm für Universaleinsatz
- *Flat vacuum cups Ø5 – Ø 16 mm for universal application*

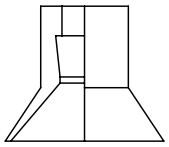
VAC1



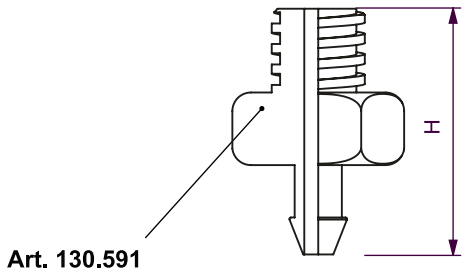
VAC2

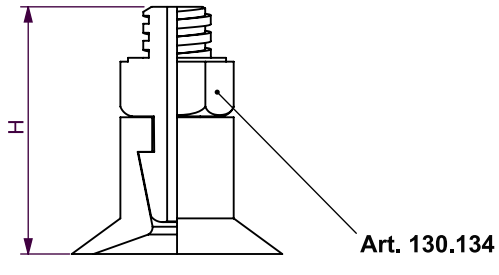


VAC3



VAC	Art.				D	D1	D2	h	H	Komplett mit Anschlussteil *Complete with fitting*
VAC-1	10.005.034._	130.591	0,5	0,1	5	2	4,5	6	14,4	12.005.040._
VAC-1	10.007.035._	130.591	1	1,1	7	2	5	6,5	15	12.007.041._
VAC-1	10.009.020._	130.591	1,5	1	9	2	5	6,5	15	12.009.042._
VAC-1	10.011.036._	130.134	1	0,3	11	3,8	9	10,5	19,5	12.011.043._
VAC-1	10.016.037._	130.134	2	0,8	16,5	3,8	9	11,5	20,5	12.016.044._
VAC-2	10.016.039._	130.134	0,5	1	16,5	3,8	8	11,5	20,5	12.016.046._
VAC-3	10.016.038._	130.134	2,5	1	16,5	3,8	9	16,5	25,5	12.016.045._



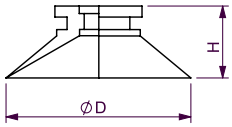


Flachsauger - einfache Ausführung | *Flat cups - basic design*

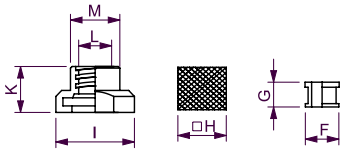


- Flachsauger Ø22 – Ø52 mm für ebene oder leicht gewölbte Flächen
- *Flat vacuum cups Ø22 – Ø 52 mm for flat or slightly curved surfaces*

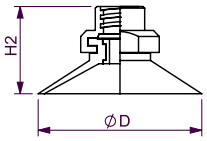
VAC



Fitting



Komplett
Complete



VAC Art.				Haltering *Reinforcement ring*	Komplett mit Anschlussteil *Complete with fitting*
10.022.120._	130.250	2,5	1	HR.011	11.022.020._
10.032.121._	130.250	4,5	1	HR.011	11.032.021._
10.042.122._	130.251	5	5	HR.012	11.042.022._
10.052.123._	130.252	6,5	11	HR.013	11.052.023._

Abmessungen in mm
Dimensions in mm

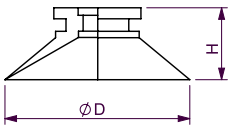
Vakuumsauger *Vacuum cups*			Fitting					Haltering *Retaining ring*		
VAC Art.	Ø D	H	H1	Ø A	B	C	E	Ø N	Ø O	P
11.022.020._	22	8	17,5	16	14,5	M5	G1/8“	14	9,7	1,8
11.032.021._	32	10	19	16	14,5	M5	G1/8“	14	9,7	1,8
11.042.022._	42	13	21	21	15	G1/8“	15	20	13	2,5
11.052.023._	52	17,5	27	28	18	G1/8“	15	26	19	3,2

Flachsauger - einfache Ausführung | *flat cups - basic design*

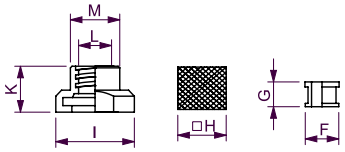


- Flachsauger Ø22 – Ø52 mm für ebene oder leicht gewölbte Flächen
- *Flat vacuum cups Ø22 – Ø 52 mm for flat or slightly curved surfaces*

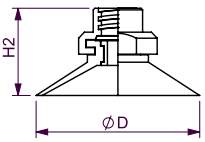
VAC



Fitting

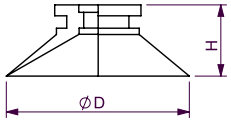


Komplett
Complete



VAC Art.				Komplett mit Anschlussteil *Complete with fitting*
10.022.120._	2,5	1	130.135	11.022.001._
10.032.121._	4,5	1	130.135	11.032.012._
10.042.122._	5	5	130.136	11.042.013._
10.052.123._	6,5	11	130.137	11.052.014._

VAC



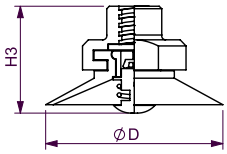
Fitting



Tastventil
Plunger valve



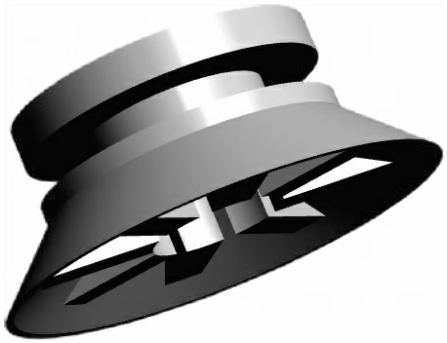
Komplett
Complete



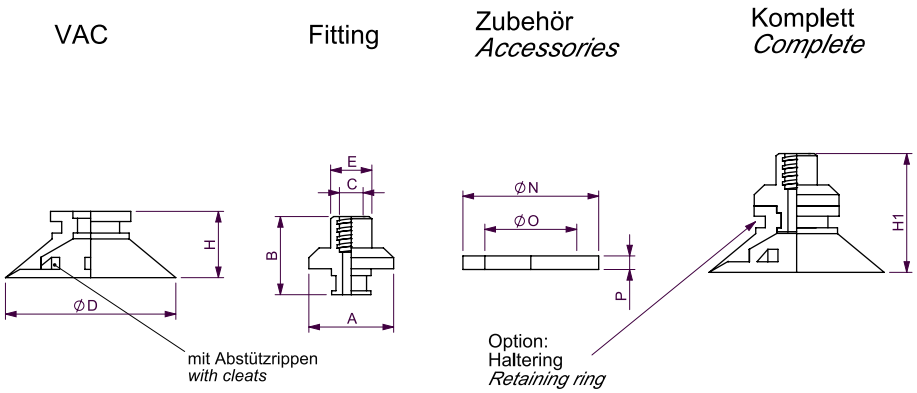
VAC Art.		Tastventil *Plunger valve*	Komplett mit Anschlussteil *Complete with fitting*
10.022.120._	130.135	–	–
10.032.121._	130.135	130.276	11.032.012._TV
10.042.122._	130.136	130.277	11.042.013._TV
10.052.123._	130.137	130.278	11.052.014._TV

Vakuumsauger Vacuum cups					Fitting						
VAC Art.	Ø D	H	H2	H3	Ø F	G	□H	Ø I	K	L	M
11.022.001._	22	8	16	–	7	5	11	18	11	M5	G1/8“
11.032.012._	32	10	17,3	20	7	5	11	18	11	M5	G1/8“
11.042.013._	42	13	21	23	10	7	15	23	13	G1/8“	---
11.052.014._	52	17,5	26	28	14	9	21	32	15	G1/8“	---

Flachsauger - inkl. Abstützrippen | Flat cups - incl. cleats



- Flachsauger Ø22 – Ø53 mm mit Abstützrippen für bessere Stabilität
- *Flat vacuum cups Ø22 – Ø 53 mm for universal application*



VAC Art.				Haltering *Retaining ring*	Komplett mit Anschlussteil
10.022.005._	0,5	1	130.250	HR.011	11.022.015._
10.028.098._	1	2	130.250	HR.011	11.028.016._
10.032.022._	1,5	2	130.250	HR.011	11.032.017._
10.042.099._	2	6	130.251	HR.012	11.042.018._
10.053.100._	3	12	130.252	HR.013	11.053.019._

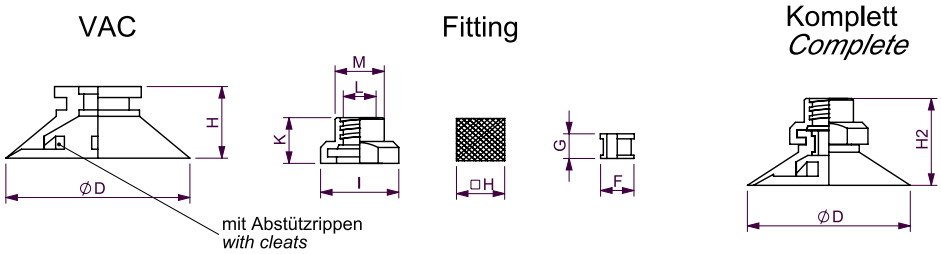
Abmessungen in mm
Dimensions in mm

Vakuumsauger *Vacuum cups*				Fitting				Haltering *Retaining ring*		
VAC Art.	Ø D	H	H1	Ø A	B	C	E	Ø N	Ø O	P
11.022.015._	22	8	17,5	16	14,5	M5	G1/8“	14	9,7	1,8
11.028.016._	28	9	19	16	14,5	M5	G1/8“	14	9,7	1,8
11.032.017._	32	10	19	16	14,5	M5	G1/8“	14	9,7	1,8
11.042.018._	42	13	21	21	15	G1/8“	15	20	13	2,5
11.053.019._	53	17,5	27	28	18	G1/8“	15	26	19	3,2

Flachsauger mit Abstützrippen | *Flat cups with cleats*

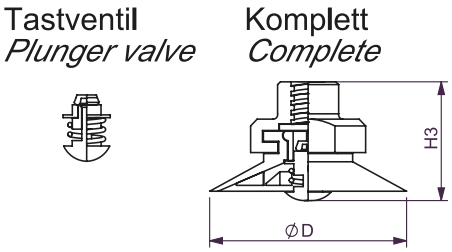


- Flachsauger Ø22 – Ø53 mm mit Abstützrippen für bessere Stabilität
- *Flat vacuum cups Ø22 – Ø 53 mm with cleats for better stability*



VAC Art.				Gewinde *Thread*	Komplett mit Anschlussteil
10.022.005._	0,5	1	130.135	1/8" AG - M5 IG	11.022.004._
10.028.098._	1	2	130.135		11.028.005._
10.032.022._	1,5	2	130.135		11.032.006._
10.042.099._	2	6	130.136	1/8" IG	11.042.007._
10.053.100._	3	12	130.137	1/8" IG	11.053.008._

VAC Art.		Tastventil *Plunger valve*	Komplett mit Anschlussteil
10.022.005._	130.135	–	–
10.028.098._	130.135	–	–
10.032.022._	130.135	130.276	11.032.006._TV
10.042.099._	130.136	130.277	11.042.007._TV
10.053.100._	130.137	130.278	11.053.008._TV

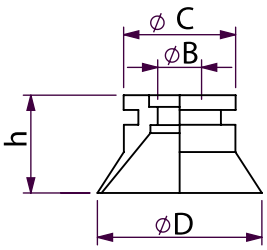


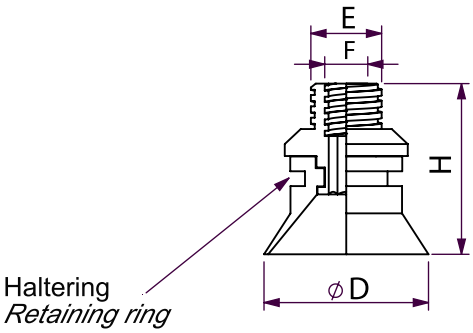
Vakuumsauger Vacuum cups					Fitting						
VAC Art.	Ø D	H	H2	H3	Ø F	G	□H	Ø I	K	L	M
11.022.004._	22	8	16	–	7	5	11	18	11	M5	G1/8“
11.028.005._	28	9	17	–	7	5	11	18	11	M5	G1/8“
11.032.006._	32	10	18	20	7	5	11	18	11	M5	G1/8“
11.042.007._	42	13	21	23	10	7	15	23	13	G1/8“	15
11.053.008._	53	17,5	26	28	14	9	21	32	15	G1/8“	15

Glockensauger | *Bell-shaped cups*

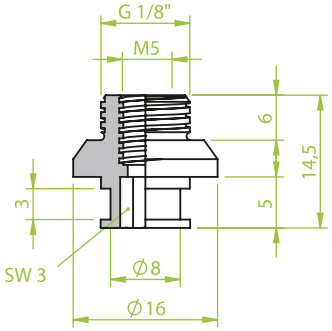


- Flachsauger Ø22 – Ø53 mm für unregelmäßige Flächen (Ecken, Kanten)
- *Flat vacuum cups Ø22 – Ø 53 mm for irregular surfaces (Corners, edges)*

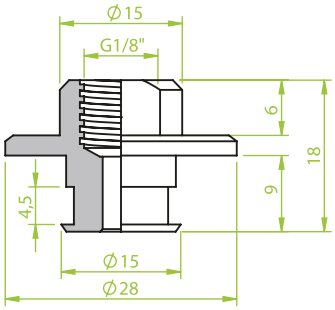




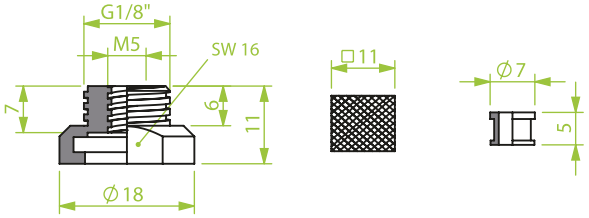
VAC Art.	D	h	B	C			Haltering Retaining ring	Komplett *Complete*	H	E	F	
10.022.126._	22	13	5	14,5	1,2	130.250 130.135	HR.011	11.022.028._ 11.022.025._	22,5 21	G1/8	M5	2,5
10.032.127._	32	19	5	14,5	3	130.250 130.135	HR.011	11.032.029._ 11.032.026._	28,5 27	G1/8	M5	5
10.053.128._	53	31,5	10,5	27	15,4	130.252 130.137	HR.013	11.053.030._ 11.053.027._	40,5 39,5	Ø 15	G1/8	9



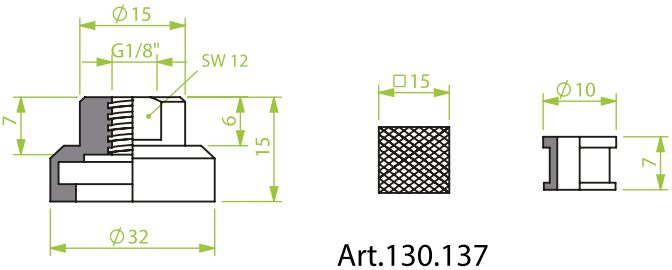
Art.130.250



Art.130.252



Art.130.135



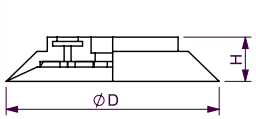
Art.130.137

Scheibenförmige Flachsauger | *Disc-shaped flat cups*

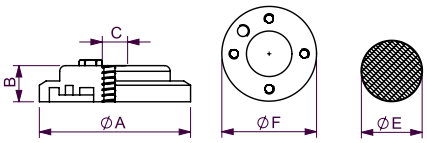


- Flachsauger Ø75 – Ø150 mm für ebene Flächen u. höhere Haltekräfte
- *Flat vacuum cups Ø75 – Ø 150 mm for irregular surfaces and higher lifting forces*

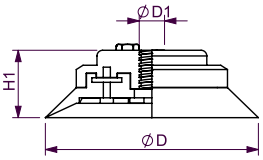
VAC



Fitting



Komplett
Complete

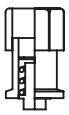


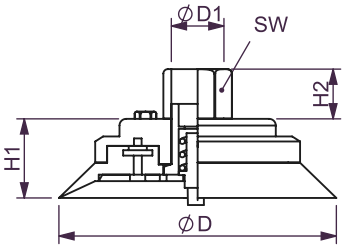
VAC Art.				Gewinde *Thread*	Komplett mit Anschlussteil *Complete with fitting*
10.075.117._	2	24	130.138	1/8" IG	11.075.009._
10.110.118._	5	74	130.139	1/2" IG	11.110.010._
10.150.119._	5	199	130.140	1/2" IG	11.150.011._

Tastventil
Plunger valve

Komplett
Complete

VAC Art.		Tastventil *Plunger valve*	Komplett mit Anschlussteil *Complete with fitting*
10.075.117._	130.138	135.206	11.075.009._TV
10.110.118._	130.139	135.206	11.110.010._TV
10.150.119._	130.140	135.207	11.150.011._TV



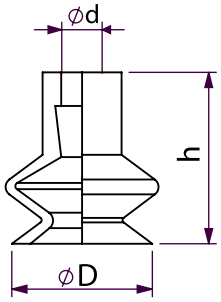


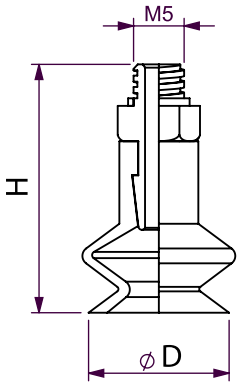
Vakuumsauger Vacuum cups						Fitting					
VAC Art.	D	D1	H	H1	H2	A	B	C	E	F	SW
11.075.009._	75	G1/8"	14	20	17	60	12	G1/8"	15	50	14
11.110.118._	110	G1/2"	19	26	32	85	13	G1/2"	30	74	30
11.150.011._	150	G1/2"	25	32	32	120	14	G1/2"	30	100	30

Balgensauger - langer Schaft | Bellow cups - long shaft

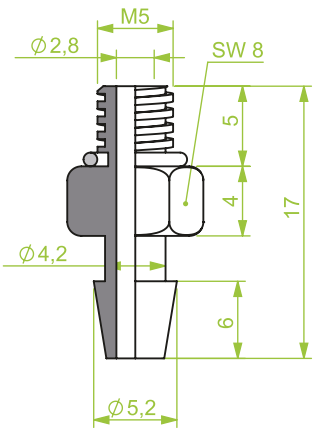


- Balgensauger- 1,5 Falten, Ø5 u. Ø16 mm für geringen Hubausgleich
- *Bellows vacuum cups – 1,5 folds, Ø5 and Ø 16 mm for less stroke compensation*

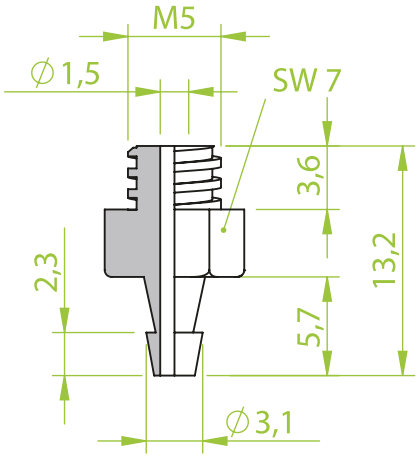




VAC Art.	Ø D	Ø d	h	H		Komplett mit Anschlussteil *Complete with fitting*		
210.005.045._	5,4	2	9,5	17	130.153	212.005.015._	2	0,1
210.008.010._	8,8	2	12	19,5	130.153	212.008.016._	3,5	0,2
210.011.001._	11	4	16	26	130.134	212.011.011._	4	1
210.016.026._	16	4	19	28	130.134	212.016.012._	5	1,4



Art. 130.134



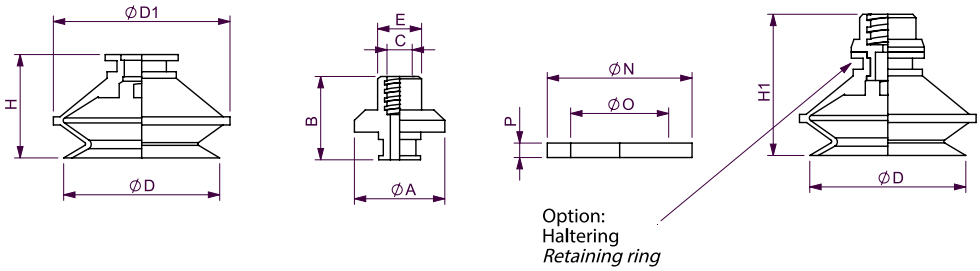
Art. 130.153

Balgensauger - einfache Ausführung | *Bellow cups - basic design*



- Balgensauger - 1,5 Falten – Ø20 - Ø52mm für Hubausgleich bis max. 12 mm
- *Bellows vacuum cups- 1,5 folds. Ø20 - Ø52mm for stroke compensation till Max. 12 mm*

VAC | Fitting | Zubehör *Accessories* | Komplett *Complete*



VAC Art.		Gewinde *Thread*			Haltering *Retaining ring*	Komplett mit Anschlussteil *Complete with fitting*
210.020.031._	130.250	1/8" AG	9	2,5	HR.011	211.020.010._
210.033.019._	130.250			6,5		211.033.011._
210.042.020._	130.251	1/8" IG		10	HR.012	211.042.012._
210.052.032._	130.252	1/8" IG	12	22	HR.013	211.052.013._

Abmessungen in mm
Dimensions in mm

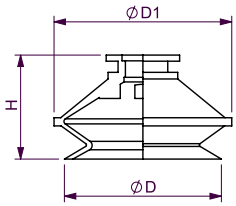
Vakuumsauger *Vacuum cups*					Fitting				Haltering *Retaining ring*		
VAC Art.	Ø D	Ø D1	H	H1	Ø A	B	C	Ø E	Ø N	Ø O	P
211.020.010._	21,5	24	20	28,5	16	14,5	M5	G1/8"	14	9,7	1,8
211.033.011._	33	36	26	33,5	16	14,5	M5	G1/8"	14	9,7	1,8
211.042.012._	42	46	28	36	21	15	G1/8"	15	20	13	2,5
211.052.013._	52	58	35	44	28	18	G1/8"	15	26	19	3,2

Balgensauger - einfache Ausführung | *Bellow cups - basic design*

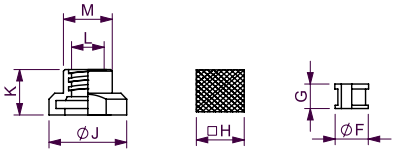


- Balgensauger- 1,5 Falten, Ø20 – Ø52 mm für Hubausgleich bis max. 12 mm
- *Bellows vacuum cups- 1,5 folds, Ø20 – Ø 52 mm for stroke compensation till max. 12 mm*

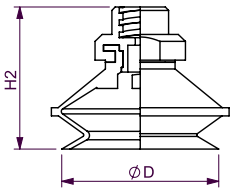
VAC



Fitting



Komplett
Complete



VAC Art.				Komplett mit Anschlussteil *Complete with fitting*
210.020.031._	130.135	9	2,5	211.020.002._
210.033.019._	130.135	9	6,5	211.033.003._
210.042.020._	130.136	9	10	211.042.004._
210.052.032._	130.137	12	22	211.052.005._

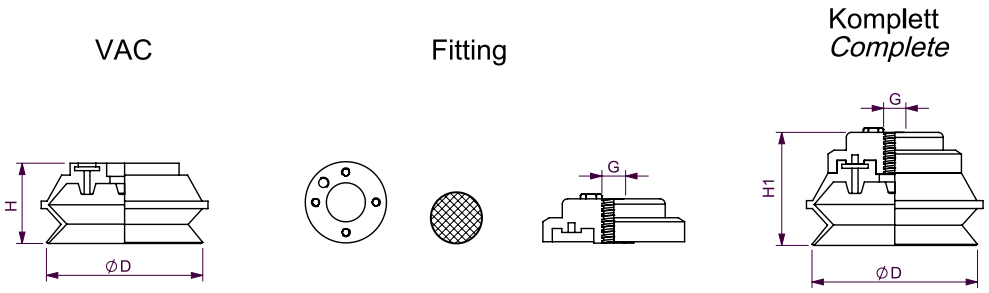
Vakuumsauger Vacuum cups					Fitting						
VAC Art.	D	D1	H	H2	F	G	□H	J	K	L	M
211.020.002._	21,5	24	20	26,5	7	5	11	18	11	M5	G1/8“
211.033.003._	33	36	26	34,5	7	5	11	18	11	M5	G1/8“
211.042.004._	42	46	28	35	10	7	15	23	13	G1/8“	15
211.052.005._	52	58	35	43	14	9	21	32	15	G1/8“	15

Abmessungen in mm / *Dimensions in mm*

Mit innerer Abstützung | *With support structure*



- Balgensauger - 1,5 Falten, Ø75 – Ø150 mm für höhere Haltekraft
- *Bellows vacuum cups - 1,5 folds, Ø75 – Ø 150 mm for higher lifting force*

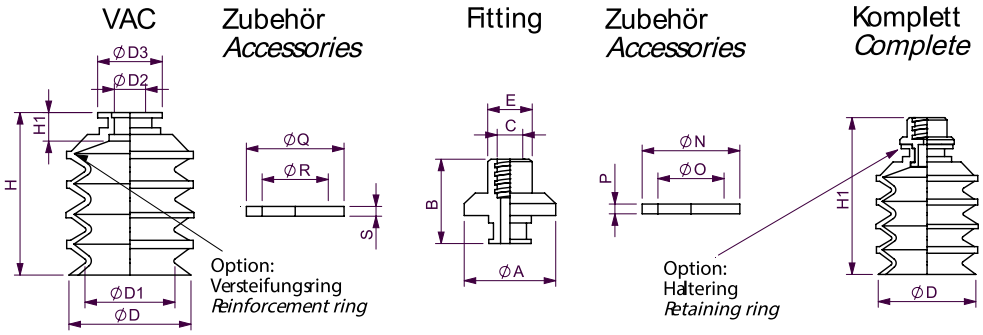


VAC Art.	Ø D	H	H1				Gewinde *Thread*	Komplett mit Anschlussteil *Complete with fitting*
210.075.033._	78	38	45	22	45	130.138	1/8“ IG	211.075.006._
210.110.034._	114	51	60	35	110	130.139	1/2“ IG	211.110.007._
210.150.035._	155	70	79	40	293	130.140	1/2“ IG	211.150.008._

Mehrfaltensauger | *Multi- bellow cups*



- Balgensauger- 4,5 Falten Ø20 – Ø50 mm für großen Hubausgleich
- *Bellows vacuum cups- 4,5 folds, Ø20 – Ø 50 mm for greater stroke compensation*



VAC Art.		Gewinde *Thread*			Versteifungsring *Reinforcement ring*	Haltering *Retaining ring*	Komplett mit Anschlussteil *Complete with fitting*
240.020.002._	130.250	1/8" AG	16	2	VR.000	HR.011	241.020.005._
240.030.003._	130.251	1/8" IG	21	6	VR.001	HR.012	241.030.006._
240.040.004._	130.251		20	15	VR.002	HR.012	241.040.007._
240.050.005._	130.252		25	25	VR.003	HR.013	241.050.008._

Vakuumsauger *Vacuum cups*							Fitting			
VAC Art.	Ø D	Ø D1	Ø D2	Ø D3	H	H1	H2	Ø A	B	C	E
241.020.005._	20	14	5	14,5	23	5	32	16	14,5	M5	G1/8"
241.030.006._	30	21	6,5	20	32	7	40	21	15	G1/8"	15
241.040.007._	40	28	6,5	20	42	7	50	21	15	G1/8"	15
241.050.008._	50	35	10,5	27	52	10	61	28	18	G1/8"	15

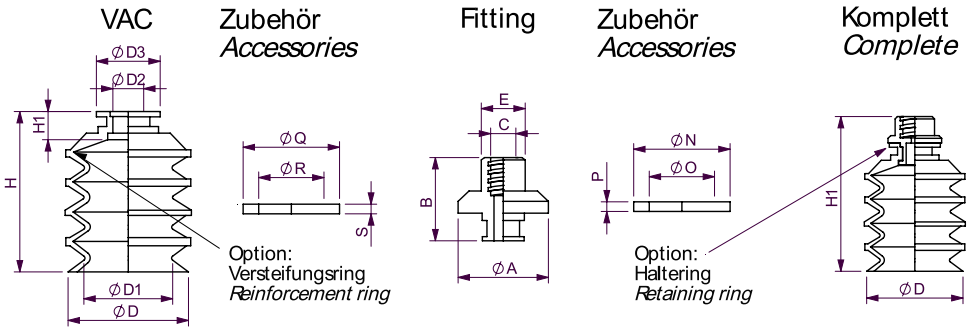
Versteifungsring *Reinforcement ring*				Haltering *Retaining ring*			
Art.	Ø Q	Ø R	S	Art.	Ø N	Ø O	P
VR.000	17,5	13,5	1	HR.011	14	9,7	1,8
VR.001	26,5	22	1,1	HR.012	20	13	2,5
VR.002	35,5	30	1,2	HR.012	20	13	2,5
VR.003	45,5	36	1,5	HR.013	26	19	3,2

Abmessungen in mm / *Dimensions in mm*

Mehrfaltensauger | *Multi- bellow cups*



- Balgensauger- 4,5 Falten Ø20 – Ø50 mm für großen Hubausgleich
- *Bellows vacuum cups- 4,5 folds Ø20 – Ø 50 mm for greater stroke compensation*



VAC Art.		Gewinde *Thread*			Komplett mit Anschlussteil *Complete with fitting*
240.020.002._	130.135	1/8“ AG	16	2	241.020.001._
240.030.003._	130.136	1/8“ IG	21	6	241.030.002._
240.040.004._	130.136		20	15	241.040.003._
240.050.005._	130.137		25	25	241.050.004._

Vakuumsauger Vacuum cups								Fitting						
VAC Art.	Ø D	Ø D1	Ø D2	Ø D3	H	H1	H2	Ø F	G	□H	Ø J	K	L	M
241.020.001._	20	14	5	14,5	23	5	30	7	5	11	18	11	M5	G1/8“
241.030.002._	30	21	6,5	20	32	7	40	10	7	15	23	13	1/8“	15
241.040.003._	40	28	6,5	20	42	7	50	10	7	15	23	13	G1/8“	15
241.050.004._	50	35	10,5	27	52	10	61	14	9	21	32	15	G1/8“	15

Abmessungen in mm / *Dimensions in mm*

Vakuumsauger mit hoher Standzeit | *Vacuum cups with long life*



Beschreibung:

Diese Vakuumsauger-Serie besticht durch eine komplett neu entwickelte TPU- Materialmischung mit den besten Eigenschaften.
Ausgezeichnete Merkmale verleihen diesem Material herausragende Vorteile gegenüber herkömmlichen Standardmaterialien in der Vakuumsaugertechnik.

Hervorzuheben sind:
Die außergewöhnlich hohe Verschleißfestigkeit.
Beste Haftreibungseigenschaften.
Ein exzellentes Rückstellverhalten
Kleine Klebeneigung.
Eine nahezu vollkommene Abdruckfreiheit.

Die Balgensauger im zweifarbigen Design verfügen über eine Kombination unterschiedlicher Härtegrade. Während der steifere Balgenbereich mit 60° Shore dem Sauger eine ausgezeichnete Stabilität verleiht, bietet die weichere Saugerlippe in 30° Shore Flexibilität.

Einsatz

- Kunststoffindustrie, Verpackungsindustrie
- Möbel-, Holz- und Automobilzulieferindustrie

Description:

- *This vacuum cup series fascinates by one completely new developed TPU-material mixture with the best qualities.*
- *Excellent characteristics gives the material outstanding advantages to customary standard materials in the vacuum cup technology*

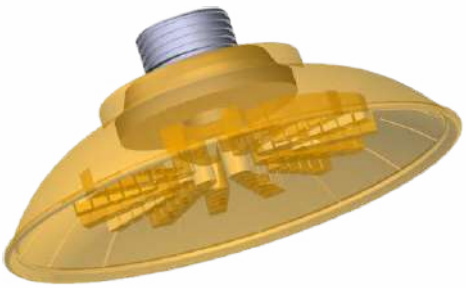
- ***Highlights are:***
  The extremely high wear-resistance.
  Best friction qualities
  An excellent back set behaviour
  Small tendency to adhere.
  A nearly perfect anti marking.

The Bellows suction cups in two-tone design dispose of a combination of different hardness grades. While the more stiff bellows area with 60° Shore lends the cup an excellent stability, the softer cup lip in 30° Shore offers instead flexibility.

Application:

- *Plastic industry, packaging industry*
- *Furniture, wood and automobile industry.*

Verschleißfeste Vakuumsauger für Roboterhandling | *Wear-resistant cups for robotic applications*

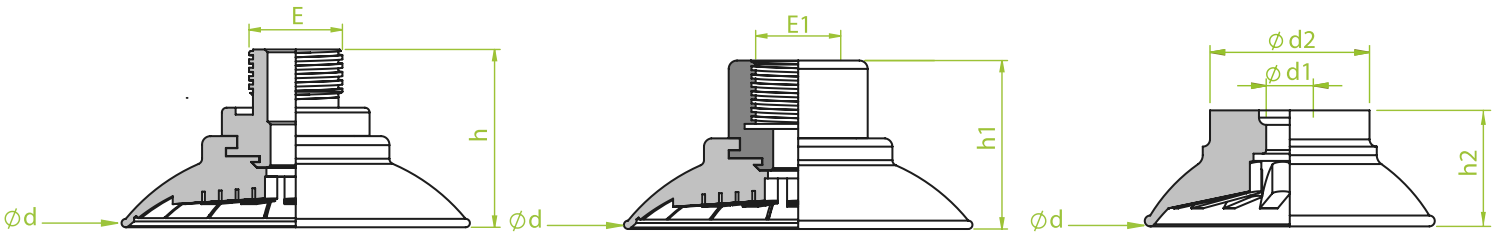


- Höhe Stabilität durch Abstützrippen

Vulkanisierte Ausführung:
Übertragung großer kinetischer Kräfte
Beste Haftreibungseigenschaften
Hochdruckarmes Material

- *High stability through cleats*

Vulkanized version:
Transmission of big kinetic forces
Best friction quality
High anti-marking material



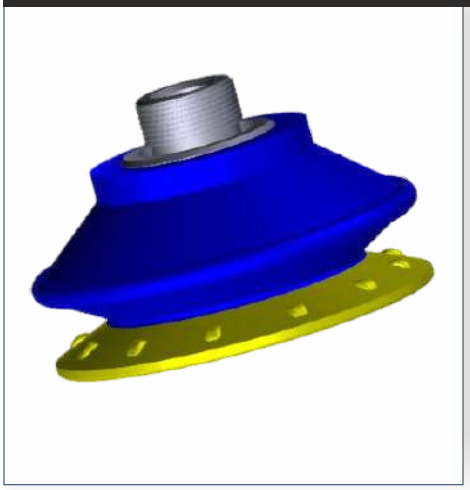
Flachsauger, steckbar - *Flat cups, plug-in*

Art.		Gewinde *Thread*	d	d1	d2	h2			Shorehärte *Hardness*
10.020.800._	130.250 130.291	1/8" AG	21,5	4,5	12	10	3,5	1,3	60
10.030.801._			31	4,5	14	13,5	6	2,9	
10.040.802._	130.451 130.452	1/4" AG 1/4" IG	40	6,5	22	16	9	6,6	

Vulkanisiert - *vulcanized*

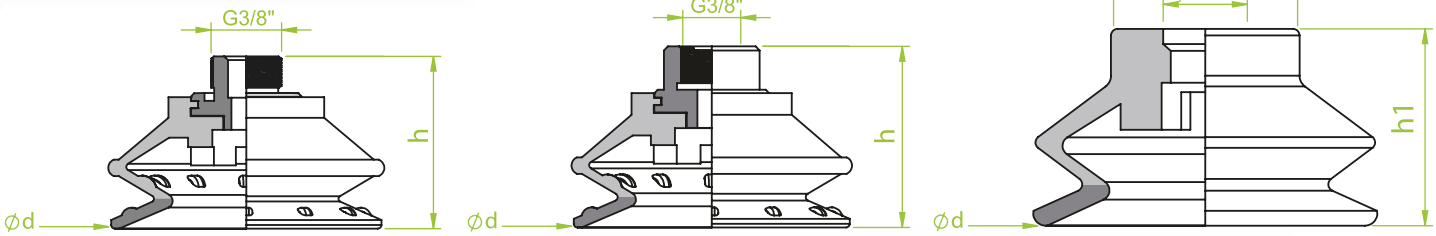
AG.	IG.	d	h	h1	h2	E	E1			Shorehärte *Hardness*
14.060.800._	13.060.800._	62,3	31,8	30,3	16,3	3/8"		5	29,5	60
14.080.801._	13.080.801._	82,4	31,8	30,1	21,8			6	48,1	
14.100.802._	13.100.802._	105	35,2	35,6	25,6			8	88,5	
14.120.803._	13.120.803._	123	40	40	30			10	–	

Verschleißfeste Balgensauger für unebene Oberflächen | *Wear resistant bellow cups for uneven surfaces*



- Materialkombination unterscheidlicher Shorehärten
  Stabiler Balgenbereich in 60° Shore (Blau)
  Weiche, flexible Dichtlippe in 30° Shore (Gelb)

- *Material combination in different shore-hardness*
  Stable bellows area in 60° Shore (Blue)
  Soft, flexible sealing lip in 30° Shore (Yellow)



Balgensauger, steckbar - *Bellows cups, plug-in*

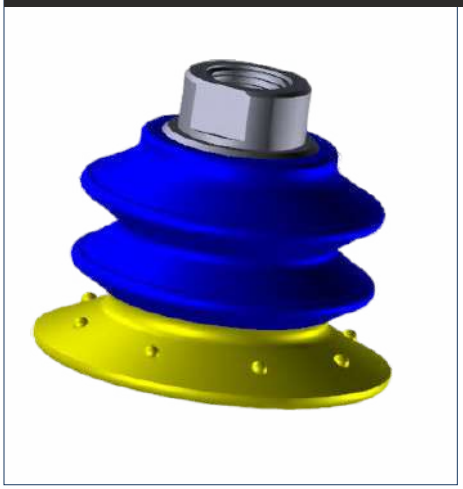
VAC Art.		Gewinde *Thread*	d	B	d1	h1			Shorehärte *Hardness*
210.010.805._	130.134 130.906	M5 AG	10	3,9	9	16,5	5,5	1,36	40
210.015.800._			16	3,9	9	19	5,5	1,3	30 | 60
210.020.801._	130.016 130.250 130.291	M5 AG 1/8" AG 1/8" AG	21	5,2	12	18	7,6	2,04	30 | 60
210.030.802._	130.030 130.251	1/8" AG 1/8" IG	31	6,5	16,8	17	7,5	4,5	30 | 60
210.040.803._	130.251 130.293 130.903 130.501 130.549	1/8" IG 1/4" AG 1/4" IG 1/8" IG 1/8" AG	41	6,3	22,4	22,4	9,3	11,7	30 | 60
210.050.804._	130.252 130.294 130.296	1/8" IG 1/4" AG 3/8" AG	51	10,5	28	29,2	14,4	20,5	30 | 60

Vulkanisiert - *vulcanized*

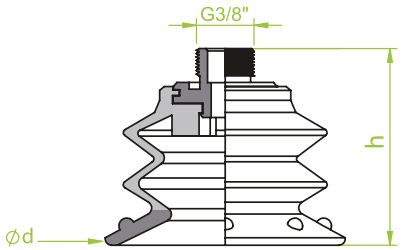
VAC Art.	Gewinde *Thread*	d	h			Shorehärte *Hardness*
213.070.800._	3/8 IG	73	48	18	61,5	30 | 60
214.070.800._	3/8 AG		46,5			

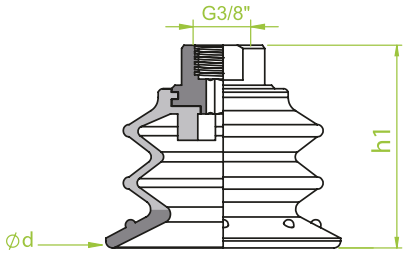
MORALI VACTEC SYSTEMS
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

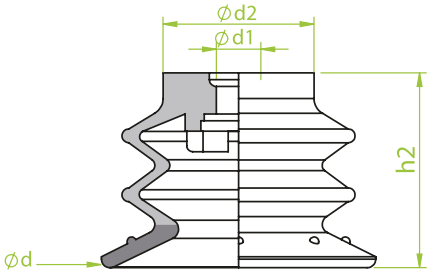
Verschleißfeste Balgensauger mit großem Hub | *Wear-resistant bellows cups with big travel*



- Materialkombination unterscheidlicher Shorehärten
  Stabiler Balgenbereich in 60° Shore (Blau)
  Weiche, flexible Dichtlippe in 30° Shore (Gelb)
- *Material combination in different shore-hardness*
  Stable bellows area in 60° Shore (Blue)
  Soft, flexible sealing lip in 30° Shore (Yellow)







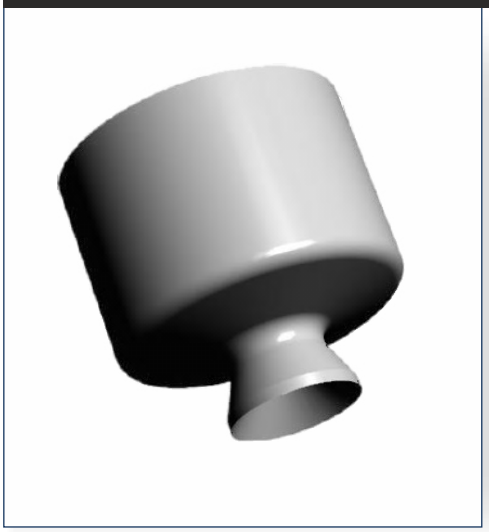
Balgensauger, steckbar - *Bellows cups, plug-in*

VAC Art.		Gewinde *Thread*	d	d1	d2	h2			Shorehärte *Hardness*
220.020.800._	130.900 130.250 130.901	1/8" AG 1/8" AG 1/8" IG	20,5	5	12	14,8	6,5	1,6	30 | 60
220.025.800._	130.250 130.291	1/8" AG	26	5	15,4	18,9	8	3	
220.030.801._	130.109 130.291	1/8" IG 1/8" AG	30	5	16,5	21,3	11	4,4	
220.035.801._	130.251 130.293 130.549	1/8" IG 1/4" AG 1/8" AG	35	6,5	21	25,3	11	7,5	
220.040.802._	130.903 130.501 130.549	1/4" IG 1/8" IG 1/8" AG	40	6,5	22	28,4	14,7	10,4	
220.050.803._	130.252 130.294 130.296	1/8" IG 1/4" AG 3/8" AG	50	10,5	27,5	35,5	20	20	

Vulkanisiert - *vulcanized*

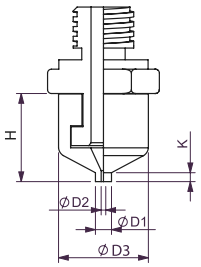
VAC Art.	Gewinde *Thread*	d	h			Shorehärte *Hardness*
223.070.800._	3/8 IG	70	60	23	66,5	30 | 60
224.070.800._	3/8 AG		58,5		60,4	

Kleinste Vakuumsauger von Ø 0,7 mm bis Ø 4 mm | *Smallest vacuum cups from Ø 0,7 mm to Ø 4 mm*

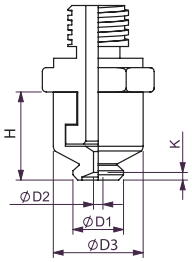


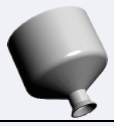
- Zum Handling kleinster und ultraleichter Produkte, z.B. in der Feinmechanik.
- *For the handling of smallest and ultralight products, for example in the fine mechanics.*

TYP A



TYP B



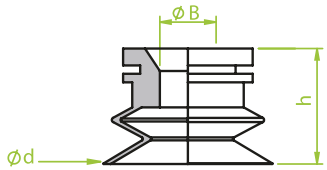
	VAC Art.	TYP	D1	D2	D3	H	K			Gewinde *Thread*
	10.001.631._	A	0,7	0,2	4	4	0,4	0,1g	130.523	AG M3
	10.001.632._	A	1	0,4	4	4	0,4	0,1g		
	10.002.633._	A	1,5	0,7	4	4	0,4	0,1g		
	10.001.108._	A	1	0,8	1,2	1,6	0,2	0,1g	130.026	AG M3
	10.001.109._	A	1,5	1,2	1,8	2,5	0,3	0,1g	130.011	AG M3
	10.002.041._	B	2	0,6	4	8	0,2	0,1g	130.427	AG M3
	10.003.042._	B	3	0,8	4	8	0,3	0,1g		
	10.004.043._	B	4	1,2	4	8	–	1g	130.427 130.153	AG M3 AG M5
	10.002.130._	B	2,5	1,2	4	4	0,5	0,1g	130.014 130.300	AG M3 AG M5
	10.003.040._	B	4	1,2	4	4	0,5	0,1g		
	10.003.691._	B	3	1,2	5	4,8	–	1g	130.300	AG M5
	10.002.634._	B	2	0,6	4	4	0,2	0,1g	130.523	AG M3
	10.003.635._	B	3	0,8	4	4	0,4	1g		
	10.004.636._	B	4	1,2	4	4	0,6	1g		
	10.003.701._	B	3	0,7	3	6	0,5	0,1g	130.025	M3 AG
	10.004.057._	B	3,8	1,1	12	12	0,7	1g	130.064 130.065 130.200	AG 1/8“ IG 1/8“ M5 AG
	10.004.065._	B	4	1,5	4	7,5	–	0,1g	130.025 130.153	M3 AG M5 AG

Saugnäpfe für sanftes Greifen | *Suction cups for soft picking*

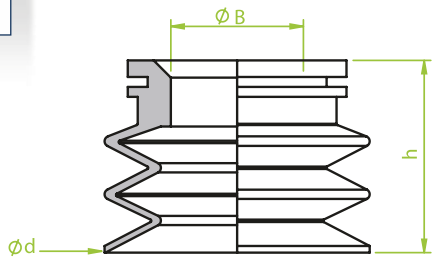


- Weiche Balgensauger mit großem Hub erlauben schonendes Handling von Backwaren mit empfindlicher Oberfläche.
- *Soft bellows cups with big travel permit careful Handling of bakery products with sensitive surface.*

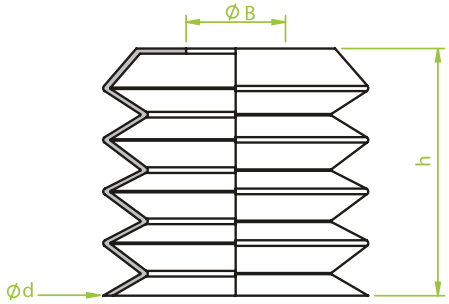
TYP A



TYP B



TYP C



VAC Art.	Zeichnung *Drawing*	d	Falten *Bellows*		Gewinde *Thread*			B	h
210.016.220._	A	16	1,5	130.312	M6 AG	6	0,8	10,5	13,3
210.030.193._		30		130.518	1/4“ AG	7,5	5	13,5	36
210.021.216._		21		–	–	9	1,5	16,5	40
220.030.039._	B	30	2,5	130.249	1/4“ AG	13	6,5	10	29
220.034.112._		34		130.039	M6 AG	12	7	6,5	29
220.060.131._		60		130.372	1/2“ AG	12	10	19,5	48
220.040.040._		40		130.616	1/2“ AG	13	9,1	20	29
220.050.120._		49		130.616	1/2“ AG	13	12	20	30
240.025.030._	C	25	4,5	–	–	29	4,5	13,5	36
240.038.018._		38		130.182	1/4“ IG	18	?	12	30
240.038.019._		38		130.049	1/4“ AG	23	14	12	52
240.040.001._		40		130.183	1/4“ AG	24	7	14	37
240.040.022._		40		130.109 130.238	1/8“ IG 1/8“ AG	26	7,1	15	37,3
240.024.029._		24		–	–	20	4,3	11,8	35,8
240.025.016._		24,7		–	–	29	6,5	13,2	43
250.024.013._		24	5,5	–	–	20	4,8	12	41
250.035.005._		35		130.182	1/4“ IG	26,5	10	13	42
250.036.014._		36		–	–	20	16	25,5	40,5
250.039.009._		39		130.183	1/4“ AG	20	10	14,5	45

Typische Sauger für die Spritzgussindustrie | *Typical cups for the injection moulding industry*





Beschreibung:

- Eine große Auswahl an Saugnäpfen aus unserer bekannten MasterVAC-Reihe und der VAC-Reihen „M“ und „N“ zählt zu den typischen und am häufigsten verwendeteten Saugern in der Kunstoffverarbeitenden Industrie.
- Auf nahezu allen Spritzgussmaschinen namhafter Hersteller kommen die nachfolgend dargestellten Sauggreifer Zur Entnahme von Kunststoffprodukten zur Anwendung.
- Dabei werden in erster Linie Bauformen bevorzugt, die aufgrund ihrer Geometrie die zur Verfügung stehenden Flächen optimal nutzen können.
- Es kommen gewöhnlich temperaturbeständige Elastomermaterialien, wie Silikon (+ 200° C) oder das hochabdruckarme HNBR (+ 160° C) zum Einsatz.
- Bei anschließender Lackierung von Kunststoffteilen empfehlen wir die Verwendung von Saugern im Material HNBR.

Einsatz

- Entnahme von Kunststoffteilen aus Spritzgussmaschinen.

Description:

- *A large selection of vacuum suction cups from our known MasterVAC-serie, VAC-series „M“ and N are one of the typical and the most used suction grippers in the plastic processing industry.*
- *The following vacuum cups shall apply in the most-known injection moulding machines manufactureres, to pick the plastic products.*
- *Besides, primarily, the construction forms which can optimally use the available surfaces by reason of their geometry are preferred.*
- *The typical temperature-resistant materials, such as silicone (+200 °C) or the high anti-marking HNBR (+160 °C) are used for this task.*
- *In the subsequent painting of the plastic parts, we recommend the suction grippers in material HNBR.*

Application:

- *To picking plastic parts from the injection moulding machines.*

Flachsauger | *flat cups*

Flachsauger- kompakte Bauform | *Flat cups- compact design*

- die nachfolgend dargestellten Flachsauger mit geringem Hub dienen vorzugsweise zum Greifen von Teilen mit planer Oberfläche.

  Durch ihre kompakte Bauweise benötigen sie relativ wenig Raum und erzielen ein hohe Ansaugkraft

- *Hereinafter displayed flat suction cups with a low stroke use preferably to picking of a parts with a plane area.*

  Through this compact design, they reach a big suction force with some space.

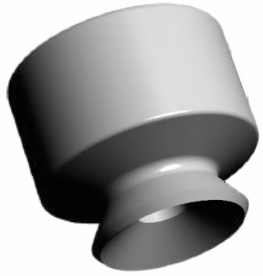
VAC Reihe „M“
VAC Line „M“



- Durchmesser: 10 bis 40 mm
- Ab Durchmesser 30 mm inkl. Abstützrippen

- Diameter: 10 to 40 mm
- From diameter 30 mm incl. cleats

Einfache Ausführung
Basic design



- Durchmesser: 5 bis 10 mm
- Für plane Oberflächen

- Diameter: 5 to 10 mm
- For a plane spaces

Lange Dichtlippe
Long sealing lip



- Durchmesser: 15 bis 50 mm
- Für ebene und leicht gewölbte Teile

- Diameter: 15 to 50 mm
- For flat and simple curved parts

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

1,5 Faltenbalg | *1,5 bellow cups*

Balgensauger mit unterschiedlichem Federweg | *Bellow cups with different travel*

- Diese Sauggreifer der MasterVAC-Reihe mit 1,5 Falten eignen sich hervorragend zum Ansaugen von gewölbten Produktoberflächen.
  der Faltenbalg gewährleistet einsanftes Aufsetzen auf die Objekte.
  Erhältlich auch in unserem **hochabdruckarmen Material HNBR.**

- *This suction grippers from our MasterVAC-serie with 1,5 folds are most suitable for the suction of product with a curved spaces.*

  The bellows ensure a soft placing on an objects.

  Also available in the high anti-marking material HNBR.

Einfache *Ausführung*
Basic design



- Durchmesse: 11 bis 25 mm
- Materialien: Silikon (+ 200 ° C)
- HNBR (+160°C, hochabdruckarm)

- Diameter: 11 to 25 mm
- Materials: Silicone (+200 ° C)
- HNBR (+160 °C, high anti-marking)

Universal
universal



- Durchmesser: 33 bis 53 mm
- Materialien: Silikon (+ 200° C)
- HNBR (+160°, hochabdruckarm)

- Diameter: 33 to 53 mm
- Materials: Silicone (+ 200° C)
- HNBR (+160°, high anti-marking)

Spezial
Special



- Durchmesser: 10 bis 40 mm
- 1,5 Falten, Material: Silikon
- Ab 30 mm inkl. Abstützrippen

- Diameter: 10 to 40 mm
- 1,5 Folds, material: Silicone
- from 30 mm incl. cleats

Standard
Standard



- Durchmesser: 15 bis 50 mm
- Materialien: Silikon (+200° C) HNBR (+160° C, hochabdruckarm)

- Diameter: 15 to 50 mm
- Materials: Silicone (+200° C) HNBR (+160° C, high anti-marking)

Für *hohe Stabilität*
For high stability



- Durchmesser: 15 bis 50 mm
- Materialien: Silikon (+200° C) HNBR (+160° C, hochabdruckarm)

- Diameter: 15 to 50 mm
- Materials: Silicone (+200° C) HNBR (+160° C, high anti-marking)

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

2,5 Faltenbalg | *2,5 bellow cups*

Balgensauger mit großem Federweg | *Bellow cups with large travel*

- Die nachfolgend aufgelisteten Balgensauggreifer sind besonders gut geeignet zum Ansaugen von Kunststoffteilen auf unterschiedlichen Niveaus.

  Ihr großer Hub erzielt einen hervorragenden Dämpfungseffekt und ermöglicht das Greifen unter einem Winkel, ähnlich einem flexiblen Gelenk.

- *The following listed bellows suction grippers are especially suited for the suction of plastic parts with different levels.*

  The big travel reach an excellent damping effect and allows the picking under an angle, like a flexible joint

Weiche Dichtlippe
Soft sealing lip



- Durchmesser: 5 mm
- Materialien: Silikon (+200 °C), FKM (+200°C) HNBR (+160° C, hochabdruckarm)

- Diameter: 5 mm
- Materials: Silicone (+200 °C), FKM (+200°C) HNBR (+160° C, high anti-marking)

Sehr flexibel
Very flexible



- Durchmesser: 6 und 9 mm
- Materialien: Silikon (+200 °C) HNBR (+160 °C, hochabdruckarm)

- Diameter: 6 to 9 mm
- Materials: Silicone (+200 °C) HNBR (+160 °C, High anti-marking)

universal
universal



- Durchmesser: 12 bis 25 mm
- Materialien: Silikon (+200 °C) HNBR (+160 °C, hochabdruckarm)

- Diameter: 12 to 25 mm
- Materials: Silicone (+200 °C) HNBR (+160 °C, high anti-marking)

Für höhere Haltekräfte
For higher retaining forces



- Durchmesser: 32 bis 62 mm
- Materialien: Silikon (+200 °C) HNBR (+160 °C, hochabdruckarm)

- Diameter: 32 to 62 mm
- Materials: Silicone (+200 °C) HNBR (+160 °C, high anti-marking)

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

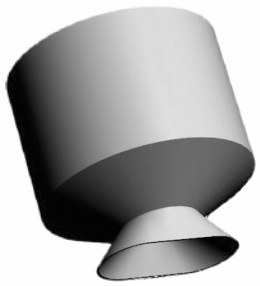
Ovalsauger | *Oval vacuum cups*

Handling vom schmalen Werkstücken | *Handling of small work pieces*

- Der große Vorteil, den der Einsatz von Ovalsaugern bietet, ist die erhöhte Saugkraft bei schmalen Teilen gegenüber runden Flachsaugern mit der gleichen Breite.
  Die flache Bauform eignet sich bestens, um nicht deformierbare, längliche Kunststoffprodukte aus der Spritzgussmaschine zu entnehmen und positionsgenau abzulegen.

- *The biggest advantage by the using of the oval suction cups, is the increased suction force to the flat suction cups with the same width, at narrow parts .*
  The flat design is most suitable for the long undeformable plastic products to picking from the injection moulding machine and to placing precisely.

Mini
Mini



- Abmessungen: 4x2 mm und 7x4 mm
- Materialien: Silikon (+200 °C) HNBR (+160 °C, hochabdruckarm)

- Dimensions : 4x2 mm and 7x4 mm
- Materials: Silicone (+200 °C) HNBR (+160 °C, high anti-marking)

Langer Schaft
Long shaft



- Abmessungen: 12x4 mm
- Material: Silikon (+200 °C)

- Dimensions : 12x4 mm
- Material: Silicone (+200 °C)

Mit Stützknoppen
With nubs



- Abmessungen: 15x5 mm bis 45x15 mm
- Materialien: Silikon (+200 °C) HNBR (+160 °C, hochabdruckarm)

- Dimensions : 15x5 mm and 45x15 mm
- Materials: Silicone (+200 °C) HNBR (+160 °C, high anti-marking)

MORALI VACTEC SYSTEMS
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Flachsauger | *flat cups*

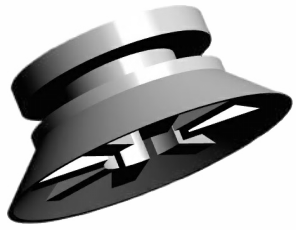
Typische Sauger für die Verpackungsindustrie | *Typical suction cups for the packaging industry*

- Um die vielfältigen Aufgaben in der Verpackungsindustrie erfüllen zu können, werden bevorzugt Vakuumsauger eingesetzt, die stabil und ausreichend flexibel sind.
  Die hier dargestellten Saugnäpfe finden sich häufig zum Greifen von Kartonagen und in Folien verpackten Waren.

- *To meet the many tasks in the packaging industry, they are preferable to use vacuum suction cups with stable and compact design.*

  This shown suction grippers are the most applicated for the picking of paperboard and in foils packaged goods.

Inkl. Abstützrippen
Incl. cleats



- Durchmesser: 22 bis 53 mm
- Hohe Eigenstabilität
- Materialien: NBR, Silikon

- Diameter: 22 to 53 mm
- High … stability
- Materials: NBR, silicone

Papier- und Foliensauger
Paper and foils vacuum cups



- Durchmesser: 15 bis 40 mm
- Innere Abstützung
- Materialien: Naturkautschuk, Silikon

- Diameter: 15 to 40 mm
- Internal support
- Materials: natural rubber, silicone

Positionsstabile Flachsauger
Position stable flat suction cups



- Durchmesser: 60 bis 95 mm
- Einvulkanisierter Metallkern
- Materialien: NBR, PU

- Diameter: 60 to 95 mm
- Vulcanised metal core
- Materials: NBR, PU

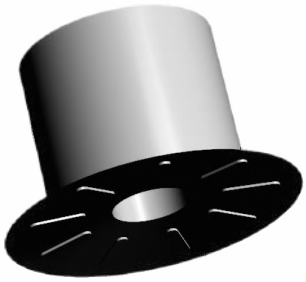
für schwere Lasten geeignet
Suitable for a heavy loads



- Durchmesser: 120 bis 190 mm
- Hohe Haltekraft
- Materialien: NBR, PU

- Diameter: 120 to 190 mm
- High holding force
- Materials: NBR, PU

Verschleißfest
Wear-resistant



- Durchmesser: 18 bis 60 mm
- Gute Anpassung an flexible Oberflächen
- Material: Vinyl

- Diameter: 18 to 60 mm
- Adaptable to flexible spaces
- Material: Vinyl

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

1,5 Faltenbalg | *1,5 bellow cups*

Balgensauger mit kurzem Federweg | Bellow suction cups with short travel

- Balgensauger mit 1,5 Falten eignen sich vorzugsweise zum Handling empfindlicher Produkte.
  Die Flexibilität der Falten bewirkt einen ausgezeichneten Dämpfungseffekt und bietet eine optimale Anpassungsfähigkeit an gewölbte Oberflächen.

- *The bellows suction grippers with 1,5 folds are preferably suitable for the handling of sensitive products.*
  The flexibility of the folds result an excellent damping effect and provide adaptability to curved areas.

Einfache Ausführung
Standard design



- Durchmesser: 16 bis 25 mm
- Materialien: NBR, Naturkautschuk, PU

- Diameter: 16 to 25 mm
- Materials: NBR, natural rubber, PU

Weiche Dichtlippe
Soft sealing lip



- Durchmesser: 33 bis 78 mm
- Materialien: NBR, Naturkautschuk, Silikon

- Diameter: 33 to 78 mm
- Materials: NBR, natural rubber, silicone

Verschleißfest
Wear-resistant



- Durchmesser: 13 bis 70 mm
- Gute Anpassung an flexible Oberflächen
- Material: Vinyl

- Diameter: 13 to 70 mm
- Adaptability to flexible areas
- Material: Vinyl

Robuste Ausführung
Stable version



- Durchmesser: 20 bis 52 mm
- Materialien: NBR, Naturkautschuk, Silikon

- Diameter: 20 to 52 mm
- Materials: NBR, natural rubber, silicone

Standard
Standard



- Durchmesser: 15 bis 155 mm
- Materialien: NBR, Naturkautschuk, PU

- Diameter: 15 to 155 mm
- Materials: NBR, natural rubber, PU

Für hohe Stabilität
For high stability



- Durchmesser: 15 bis 50 mm
- Materialien: NBR, Naturkautschuk, PU

- Diameter: 15 to 50 mm
- Materials: NBR, natural rubber, PU

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

2,5 Faltenbalg | *2,5 bellow cups*

Balgensauger mit großem Federweg | *Bellow suction cups with long travel*

- Die hier abgebildeten Balgsauggreifer mit großem Hub eignen sich u.a. sehr gut zum Ansaugen von Verpackungen mit großem Unebenheiten.
  Ihr hervorragendes Hubverhalten erzielt einen ausgezeichneten Dämpfungseffekt und ermöglicht auch das Greifen unter einem Winkel, ähnlich einem flexiblen Gelenk.

- *The following listed bellow suction grippers with a big stroke are suitable for the suction of packaging with a big unevenness.*

  The outstanding stroke behavior reach an excellent damping effect and enable also the picking at an angle, like a flexible joint.

Verschleißfest
Wear-resistant



- Durchmesser: 16 bis 50 mm
- Perfekte Anpassung an flexible Oberflächen
- Material: Vinyl

- Diameter: 16 to 50 mm
- Adaptability to flexible areas
- Material: Vinyl

Universal
Universal



- Durchmesser: 14 bis 25 mm
- Materialien: NBR, Naturkautschuk

- Diameter: 14 to 25 mm
- Materials: NBR, natural rubber

Für höhere Haltekräfte
For high holding force



- Durchmesser: 32 bis 88 mm
- Materialien: NBR, Naturkautschuk

- Diameter: 32 to 88 mm
- Materials: NBR, natural rubber

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

4,5 Faltenbalg | *4,5 bellow cups*

Mehrfaltensauger mit sehr großem Federweg | *Multi bellow cups with big travel*

- Die 4,5 Faltensauger sind dank der Verstärkung der Falten um Aussenbereich, trotz ihres großen Federwegs, sehr stabil beim Handling.

Diese Saugnäpfe mit ihrer flexible Dichtlippe in Verbindung mit großen Hubbewegung ermöglichen besonders das Vereinzeln von Kartonagen, Zwischenlagen usw.

- *Despite the big spring travel, the 4,5 bellow suction grippers are through the reinforcement of the folds very stabile during the handling.*

This suction cups with flexible sealing lip connected with big stroke movement, allow specially the separating of cartons, layer, etc

Mehrfaltensauger
Multi-bellow cups



- Durchmesser: 20 bis 50 mm
- Materialien: NBR, Silikon

- Diameter: 20 to 50 mm
- Materials: NBR, silicone

Ovalsauger | *oval vacuum cups*

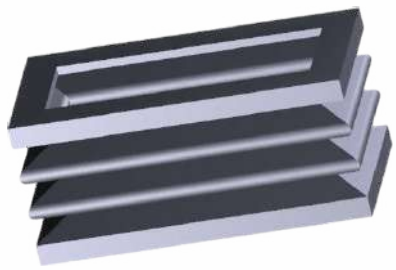
Oval-Rechteckbalgensauger | *Oval-rectangulare suction cups*

- Zur Handhabung von folienverpackten Waren, befüllten, biegeschlaffen Beuteln und ähnlichen, leichtverformbaren Produkten sind die hier dargestellten Oval- Rechteckbalgensauger besonders zu empfehlen.
  Sie verfügen über hervorragende Anpassungseigenschaften an die beschriebenen Objekte und eine ausgezeichnete Ansaugkraft.

- *For the handling of foils packaged goods, filled, bags and any other similar, simple ductile products are this listed oval-rectangulare suction cups particularly recommended.*

  They have an outstanding adaptability to the described objects and an excellent suction force.

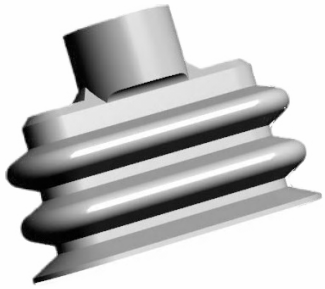
Rechtecksauger mit Falten
With folds



- Abmessungen: 52x25 mm Bis 80x50 mm
- Materialien: NBR, Silikon

- Dimensions : 52x25 mm to 80x50 mm
- Materials: NBR, silicone

Schmale Bauform
Narrow design



- Abmessungen: 25x8 mm bis 75x25 mm
- Materialien: NBR, Silikon

- Dimensions : 25x8 mm to 75x25 mm
- Materials: NBR, silicone

Verschleißfest
Wear-resistant



- Abmessungen: 35x28 mm bis 97x55 mm
- Material: Vinyl

- Dimensions : 35x28 mm to 97x55 mm
- Material: Vinyl

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Typische Vakuumsauger für Holz- u. Möbelindustrie | *Typical vacuum cups for wood and furniture industry*



Technische Daten:

- Sowohl in der holzverarbeitenden Industrie als auch in der Möbelherstellung werden zum Handling der gängigen Objekte ganz besonders Anforderungen an die Vakuumsauger gestellt.
- Die Elastomermaterialien müssen einerseits robust sein, auf der anderen Seite aber auch eine gute Haftreibung aufweisen und bei rauhen Oberflächen eine ausgezeichnete Abdichtung besitzen.
- Unsere Sauggreifer zielen genau auf diese Anforderungen ab und erfüllen in bewährter Weise diese Kriterien.
- Bevorzugt finden die nachfolgend dargestellten Sauger aus Naturgummi, Silikon und NBR in der Holzbranche Verwendung.
- Wichtiger Hinweis:
  Um Ihre Vakuumsauger vor Verschmutzung durch Holzstaub zu schützen, empfehlen wir den Einsatz von Vakuumfiltern.

Technical data:

- *The wood processing and furniture manufacturing make for the handling of the usual objects exacting demands on the vacuum suction cups.*
- *The elastomer materials musst to be robust, have a good adhesion and to have an excellent seal at rough surfaces.*
- *Our suction grippers reach exactly these specifications and meet these criteria.*
- *Preferable are the following shown suction cups from natural rubber, silicone and NBR in the wood sector.*
- *Important note:*
  For the protection of your suction cups from pollution by wood dust, we recommend the using of the vacuum filter.

Einsatz

- Holzplatten- glatt oder sägerauh
- Möbelelemente
- Türen, Parkett

Application:

- *Wooden panels- smooth or sawn surface*
- *Furniture elements*
- *Doors, parquet*

Flachsauger | *flat cups*

Steckbare Anschlussteil | *Pluggable fitting*

- Elastische Flachsauger mit integrierter Abstützung eignen sich bestens zum Handling von rauen oder glatten Holzplatten und Möbelelementen. Die Verwendung eines Federstößels, wie in nebenstehender Abbildung dargestellt, sorgt für ein sanftes Aufsetzen und eine gleichmäßige Lastverteilung.

- *Elastic flat suction cups with integrated support are suited best to the handling of rough or smooth boards and furniture elements. The use of a spring leveler, how in accompanying illustration shown, provides a gentle touch-down and a steady load distribution.*



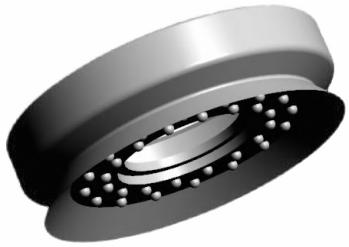
Doppeldichtlippe
Double sealing lip



- Durchmesser: 40 bis 350 mm
- Hervorragende Haltekraft
- Materialempfehlung: Naturgummi (35° bis 40° Shore)

- Diameter: 40 to 350 mm
- Excellent holding force
- Material recommendation: natural rubber(35° to 40° Shore)

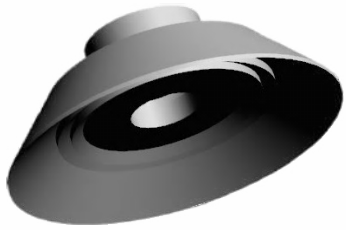
Abstütznoppen
Nubs



- Durchmesser: 35 bis 154 mm
- **Abdruckarm**
- Materialempfehlung: NBR (grau), Silikon (weiß)

- Diameter: 35 to 154 mm
- **Anti marking**
- Material recommendation: NBR (gree), silicone (white)

Vulkanisiert - Innengewinde
Vulcanized - female thread



- Durchmesser: 50 bis 300 mm
- Strukturierte Ansaugfläche für hohe Dynamik

- Diameter: 50 to 300 mm
- Textured suction surface for high dynamics

Vulkanisiert - Innengewinde
Vulcanized - female thread



- Durchmesser: 60 bis 95 mm
- Abstützrippen an der Unterseite
- Hohe Beschleunigungen möglich

- Diameter: 60 to 95 mm
- Cleats on the underside
- High acceleration are possible.

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

1,5 Faltenbalg | *1,5 bellow cups*

Balgensauger mit kurzem Federweg | *Bellow suction cups with short travel*

- 1,5 Faltenbalgsauger können sich optimal an gewölbte Oberflächen, z. B. Stuhllehnen anpassen sowie Höhenunterschiede ausgleichen. Um den Federweg zu erhöhen bietet sich eine Montage mit einem gefederten Saugerträger an.

- *1,5 bellow cups can optimally adapt themselves to curveded surfaces, for example chair backs, as well as compensate height differences. To raise the travel a mounting with a suspended spring leveler offers best.*



Robuste Bauform
Robust design



- Durchmesser: 25 bis 60 mm
- Materialien: Naturgummi, Silikon

- Diameter: 25 to 60 mm
- Materials: Natural rubber, silicone

Verstärkte Ausführung
Reinforced version



- Durchmesser: 20 bis 52 mm
- Materialien: Naturgummi, NBR, Silikon

- Diameter: 20 to 52 mm
- Materials: Natural rubber, NBR, silicone

Große Tragkraft
High load capacity



- Durchmesser: 75 bis 150 mm
- Materialien: NBR, Silikon

- Diameter: 75 to 150 mm
- Materials: NBR, silicone

Einfache Ausführung
Simple version



- Durchmesser: 16 bis 25 mm
- Sehr gute Dämpfung
- Material: Naturgummi

- Diameter: 16 to 25 mm
- Very good damping
- Material: Natural rubber

Weiche Dichtlippe
Soft sealing lip



- Durchmesser: 33 bis 78 mm
- Materialien: Naturgummi, NBR

- Diameter: 33 to 78 mm
- Materials: Natural rubber, NBR

Hohe Stabilität
High stability



- Durchmesser: 15 bis 155 mm
- Materialien: Naturgummi, NBR

- Diameter: 15 to 155 mm
- Materials: Natural rubber, NBR

2,5 Faltenbalg | *2,5 bellow cups*

Balgensauger mit großem Federweg | *Bellow suction cups with long travel*

- Die hier dargestellten Balgensauger mit großem Hub eignen sich sehr gut zum Ansaugen von Produkten mit abgestufter Kontur und vorhandenem Höheunterschied.
  Ihr hervorragendes Hubverhalten erzielt einen ausgezeichneten Dämpfungseffekt und ermöglicht das Greifen unter einem Winkel, ähnlich einem flexiblen Gelenk.

- *The shown bellow suction cups with big travel are suited very well for sucking products with graduated contour and existing height difference. their perfect travel behaviour achieves an excellent damping effect and allows the picking at an angle, like a flexible joint.*

Universal
Universal



- Durchmesser: 14 bis 60 mm
- Sehr gute Anpassung
- Materialien: Naturgummi, Silikon

- Diameter: 14 to 60 mm
- Excellent adaptability
- Materials: Natural rubber, slicone

Für kleine Produkte
For small products



- Durchmesser: 12 bis 25 mm
- Für empfindliche Oberflächen
- Material: Naturgummi

- Diameter: 12 to 25 mm
- For sensitive areas
- Material: Natural rubber

Standard
Standard



- Durchmesser: 32 bis 62 mm
- Für höhere Haltekraft
- Material: Naturgummi

- Diameter: 32 to 62 mm
- For high holding force
- Material: Natural rubber

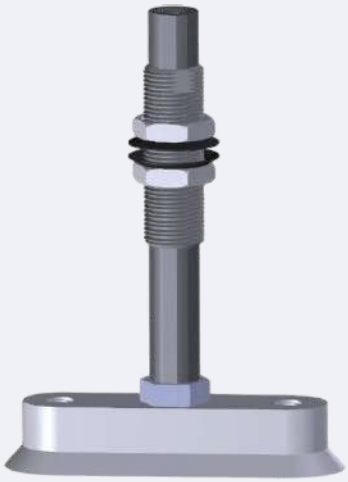
Holzindustrie I *Wood Industry*

Ovalsauger | *Oval vacuum cups*

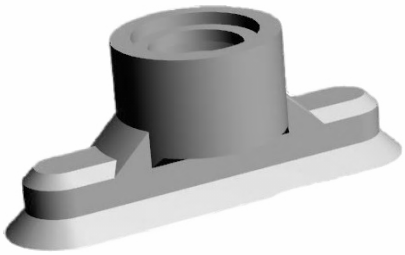
Oval- Rechteckflachsauger | Oval-rectangular flat cups

- Speziell zum Handling von schmalen Teilen, wie z. B. Holzleisten, Fenster- und Türrahmen sind ovale Sauger praktisch unverzichtbar. In Kombination mit einem verdrehgesicherten Federstößel ist eine prozesssichere Positionierung der Werkstücke gewährleistet.

- *Especially to the handling of narrow parts, as for example wooden, strips, window and door frames, oval cups are practically indispensable. In combination with a torsionally rigid spring leveler a safe processing and positioning of the workpieces is guaranteed.*



Standard
Standard



- Abmessungen: 45x15 mm Bis 85x28 mm
- Materialien: NBR, Silikon

- Dimensions : 45x15 mm to 85x28 mm
- Materials: NBR, silicone

Vulkanisiert - Innengewinde
Vulcanized - female thread



- Abmessungen: 75x25 mm bis 145x34 mm
- Für hohe Taktzeiten
- Material: Silikon

- Dimensions : 75x25 mm to 145x34 mm
- For high cycle times
- Material: silicone

Doppeldichtlippe
Double sealing lip



- Abmessungen: 110x65 mm, 190x90 mm
- Vulkanisiert mit Innengewinde G1/4"
- Material: Naturgummi

- Dimensions : 110x65 mm, 190x90 mm
- Vulkanised with female thread G1/4"
- Material: Natural rubber

Vulkanisiert - ohne Bohrung
Vulcanised - without hole



- Abmessungen: 200x55 mm, 300x55 mm
- Für schmale Werkstücke
- Materialien: Naturgummi, NBR

- Dimensions : 200x55 mm, 300x55 mm
- For narrow workpieces
- Materials: Natural rubber, NBR

MORALI VACTEC SYSTEMS

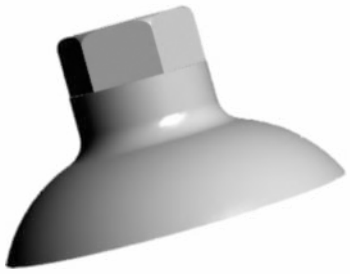
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

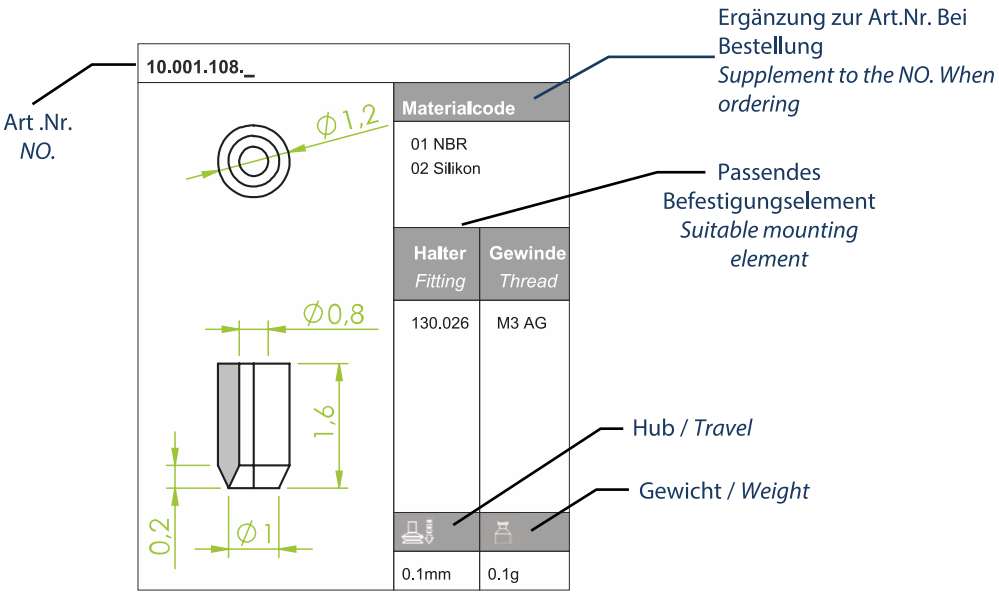
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Aufbau & Ausführungen | *Structure & Versions*

Ohne Anschlussteil *Without fitting* **10.**	Inkl. Anschluss, gesteckt, Innengewinde *Incl. plugged fitting, female thread* **11.**	Inkl. Anschluss, gesteckt, Aussengewinde *Incl. plugged fitting,male thread* **12.**
		
10.003.201._	11.003.201._	12.003.201._
Inkl. Anschluss, vulkanisiert, Innengewinde *Incl. vulcanized fitting, female thread* **13.**	**Inkl. Anschluss, vulkanisiert, Aussengewinde** *Incl. vulcanized fitting, male thread* **14.**	**Vulkanisiert, ohne Gewinde/Bohrung** *Vulcanized, without thread/hole* **15.**
		
13.003.201._	14.003.201._	15.252.038._

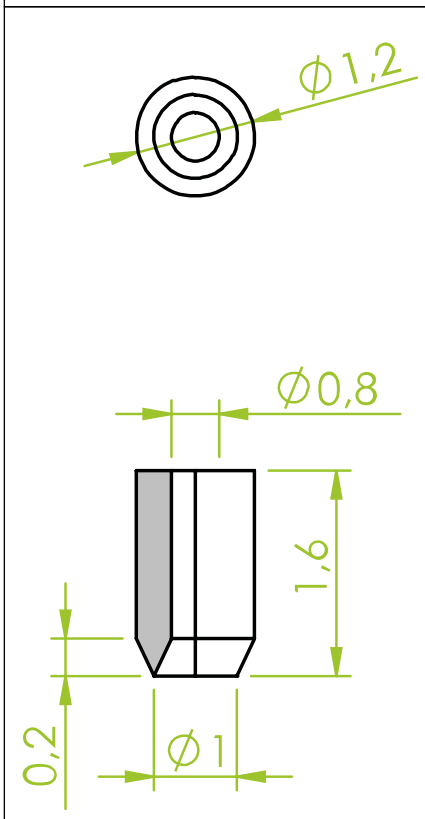
Example: Flachsauger ohne Anschlussteil Ø 1mm, verfügbar in den Materialien NBR und Silikon.
Flat suction cups without fitting Ø 1mm, available in the materials NBR and silicone.



Eigenschaften der Saugermaterialien auf Seite 24 | *Properties of vacuum cup materials at page* 24

Flachsauger I *Flat cups*

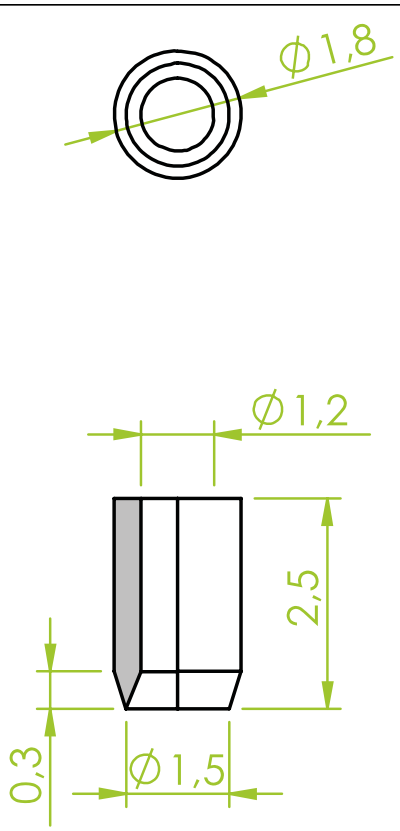
10.001.108._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.026	M3 AG
0.1mm	0.1g

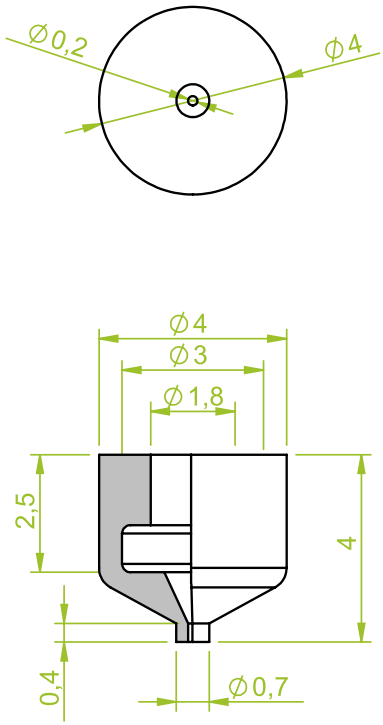
10.001.109._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.011	M3 AG
0.3mm	0.3g

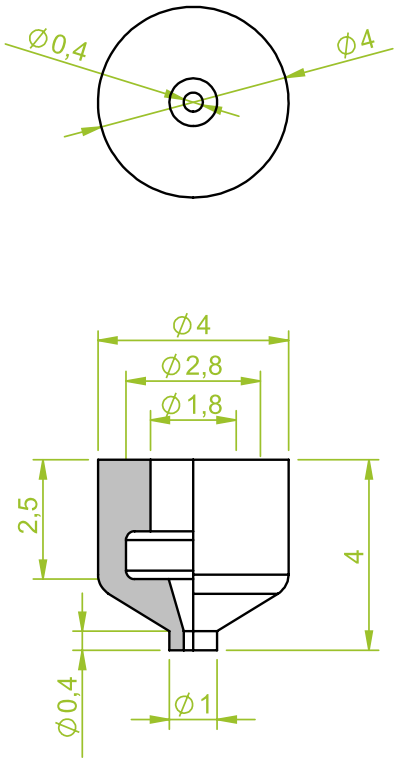
10.001.631._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.300 270.524	M5 AG M3 AG
0.4mm	1g

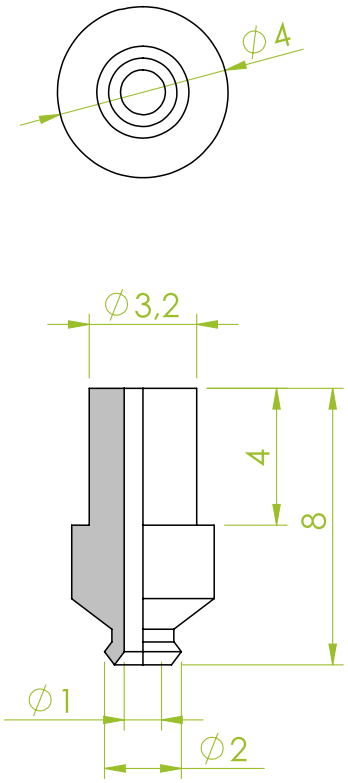
10.001.632._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.300 270.524	M5 AG M3 AG
0.4mm	1g

10.002.041._

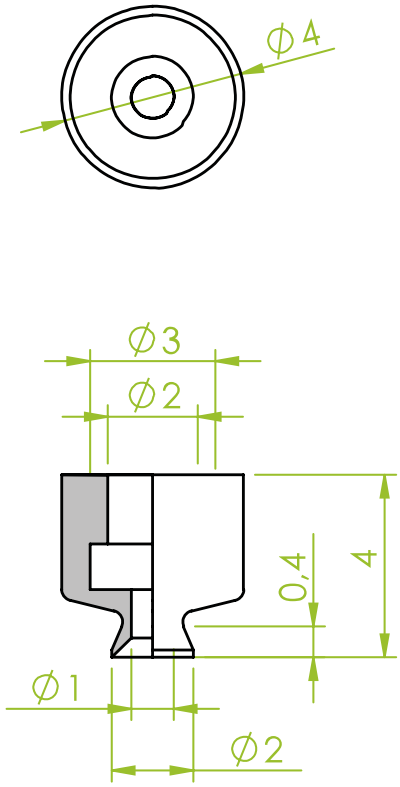


Materialcode
07 FKM 02 Silikon

Halter *Fitting*	Gewinde *Thread*
270.427	M3 AG

0.2mm	0.1g

10.002.130._

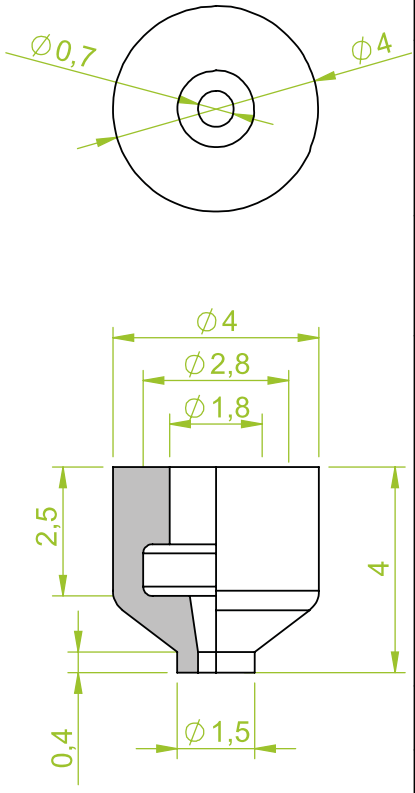


Materialcode
07 FKM 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014 130.300	M3 AG M5 AG

0.4mm	0.1g

10.002.633._

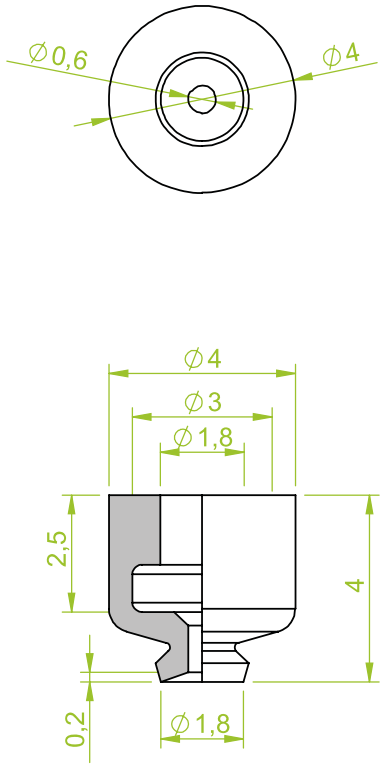


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014 130.300 130.523	M3 AG M5 AG M3 AG

0.4mm	1g

10.002.634._



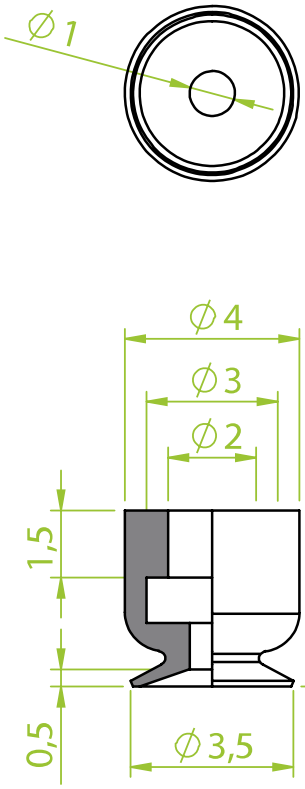
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014 130.300 130.523	M3 AG M5 AG M3 AG

0.2mm	1g

Flachsauger I *Flat cups*

10.003.040._

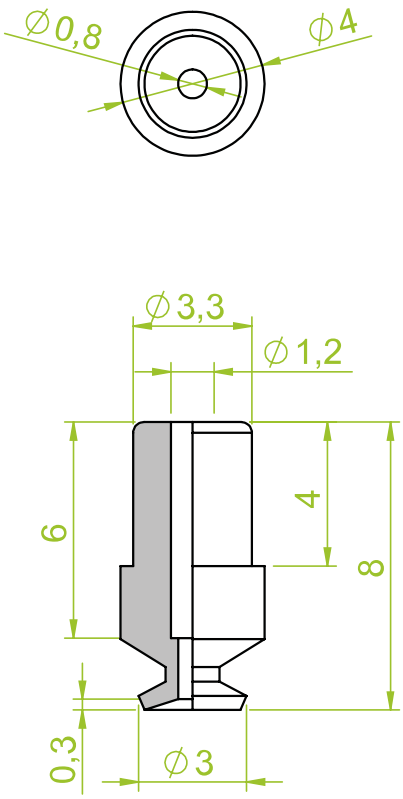


Materialcode
04 CR 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.014 130.300	M3 AG M5 AG

0.5mm	0.1g

10.003.042._

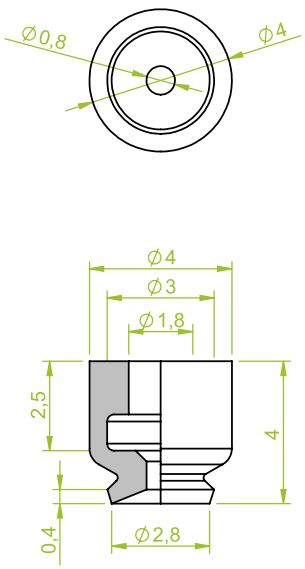


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
270.427	M3 AG

0.3mm	0.1g

10.003.635._

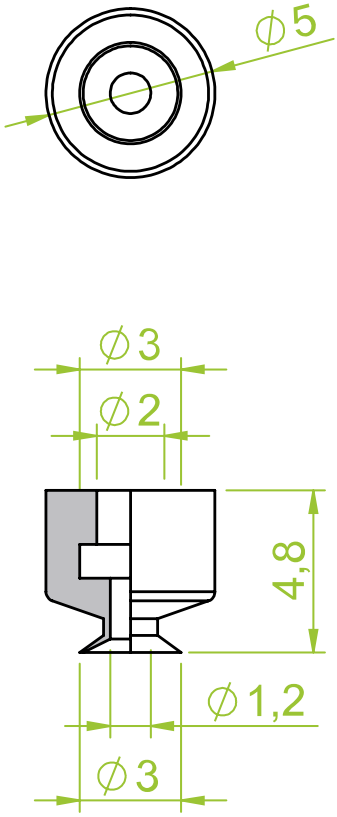


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014 130.300 130.523	M3 AG M5 AG M3 AG

0.4mm	1g

10.003.691._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.300	M5 AG

2.5mm	1g

MORALI VACTEC SYSTEMS

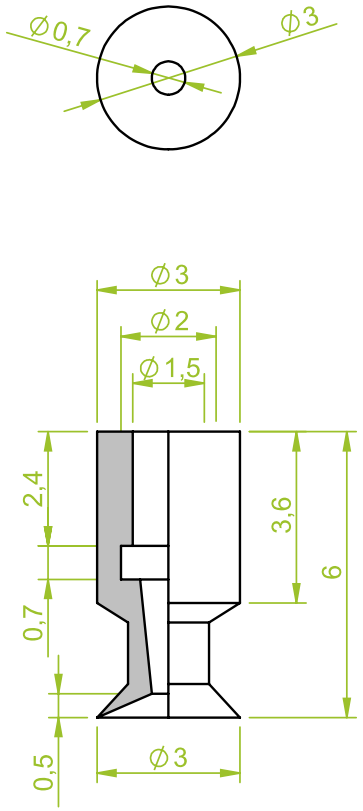
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.003.701._

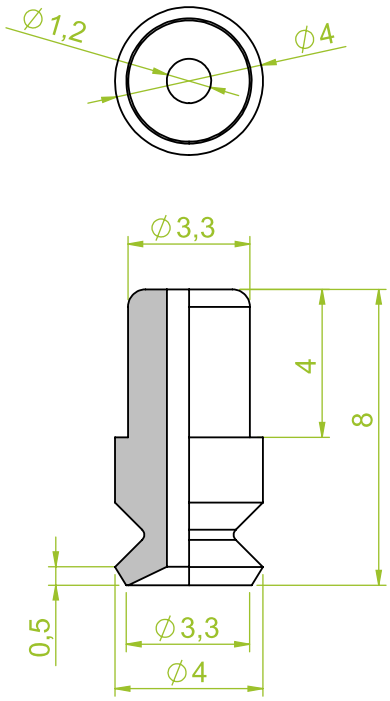


Materialcode	

Halter *Fitting*	Gewinde *Thread*
130.025	M3 AG

0.3mm	0.1g

10.004.043._

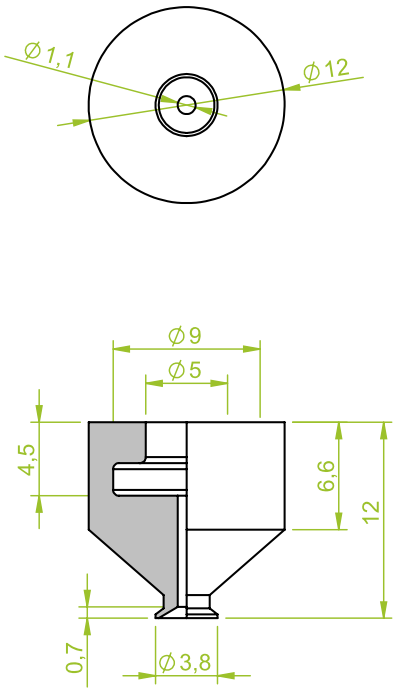


Materialcode
07 FKM 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.153 270.427	M5 AG M3 AG

0.3mm	0.1g

10.004.057._

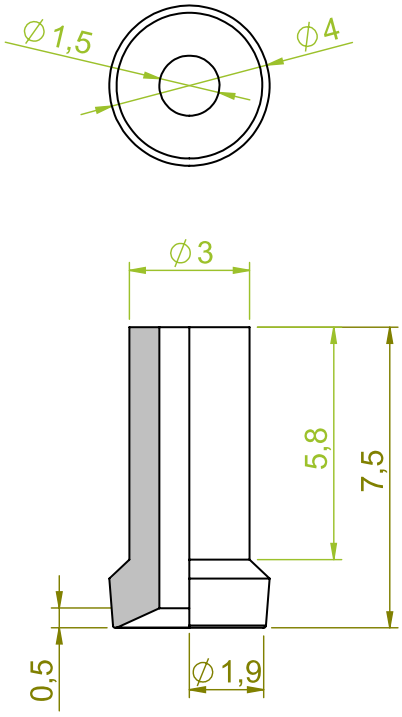


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.064 130.065 130.200	1/8" AG 1/8" IG M5 AG

1mm	1g

10.004.065._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.025 130.153	M3 AG M5 AG

0.3mm	0.1g

Morali Produktionstechnik GmbH
Handling technology

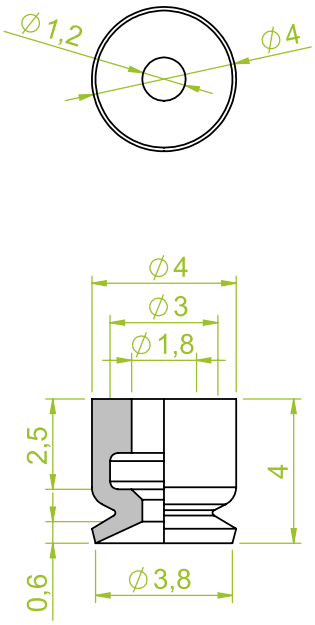
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.004.636._

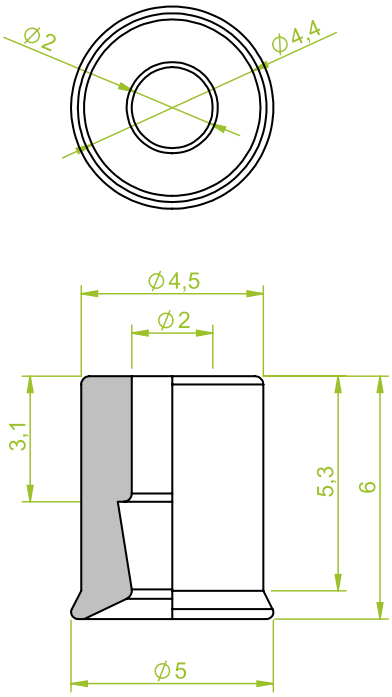


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014	M3 AG
130.300	M5 AG
130.523	M3 AG

0.6mm	1g

10.005.034._

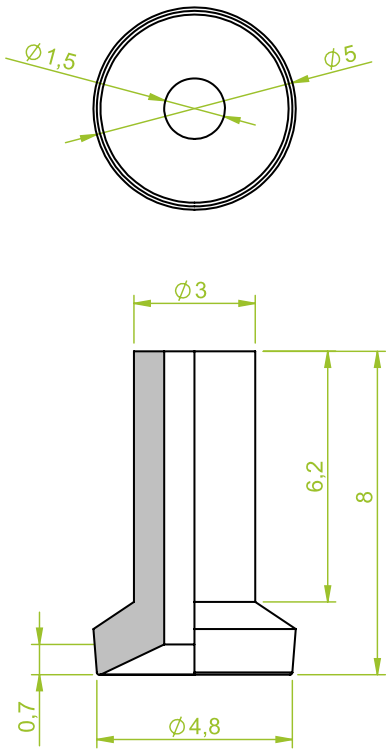


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.591	M5 AG

0.5mm	0.1g

10.005.066._

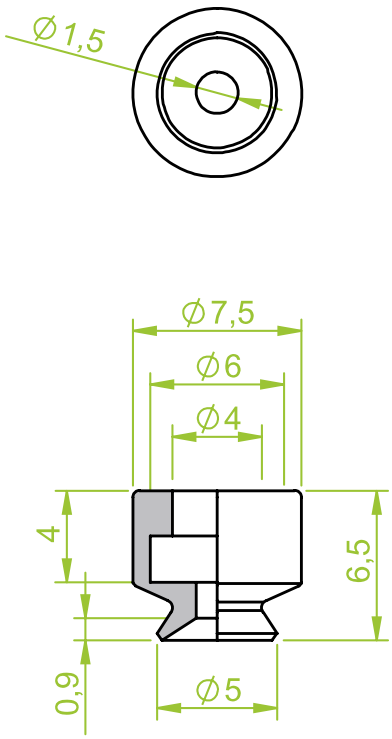


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.153	M5 AG

1mm	0.1g

10.005.131._



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG
130.301	M5 AG

0.9mm	0.1g

MORALI VACTEC SYSTEMS

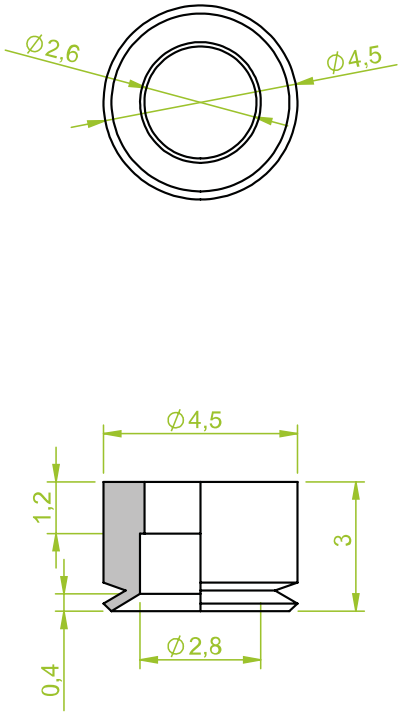
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.005.145._

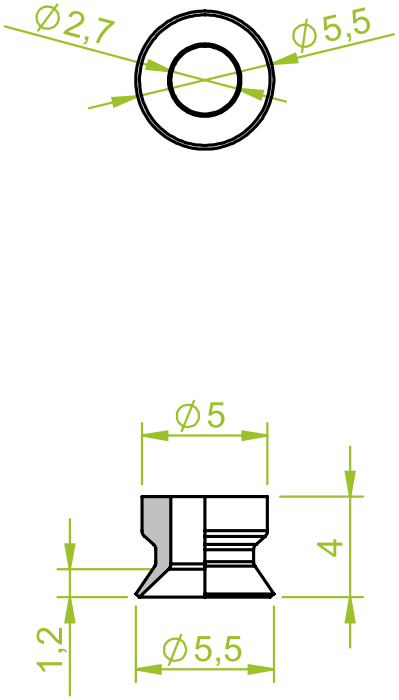


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.011	M3 AG
130.014	M3 AG

0.5mm	0.1g

10.005.148._

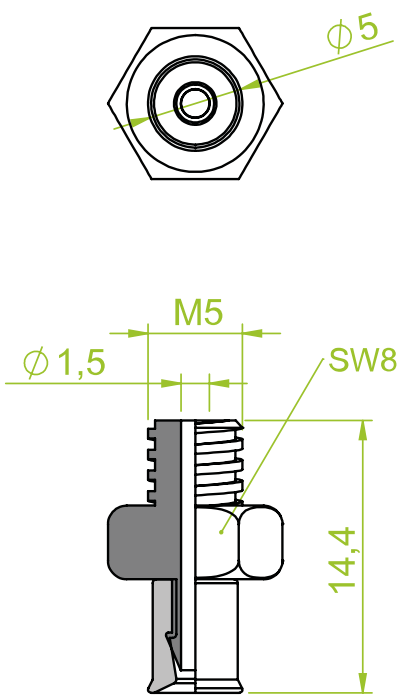


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014	M3 AG

0.9mm	0.1g

12.005.040._

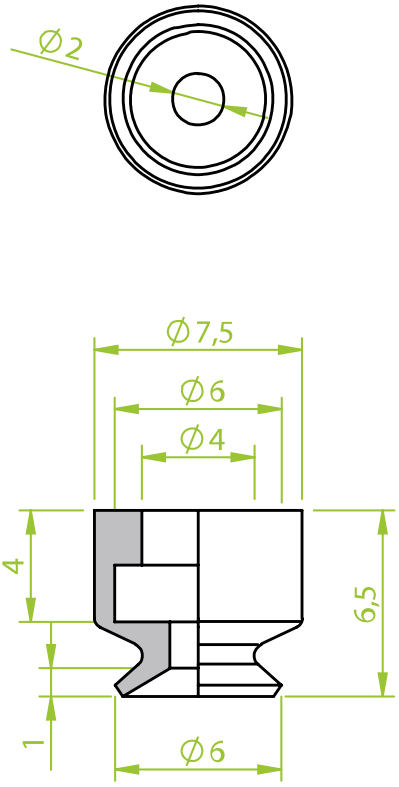


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.5mm	0.4g

10.006.021._



Materialcode
09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

1mm	0.1g

Morali Produktionstechnik GmbH
Handling technology

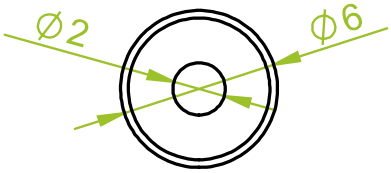
Stadtweg 30
D-78658 Zimmern o.R.

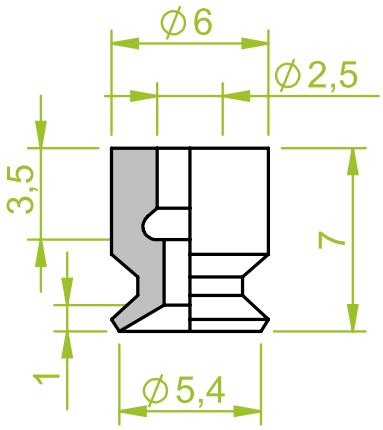
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.006.044._



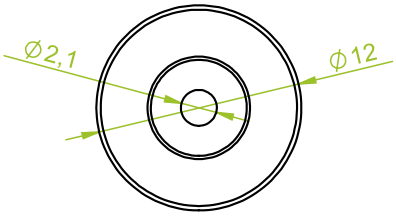


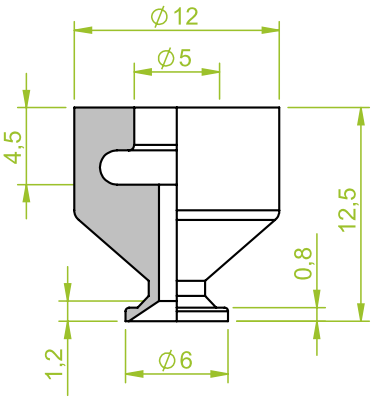
Materialcode
07 FKM 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.283	M5 AG

0.3mm	1g

10.006.058._



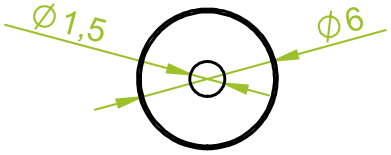


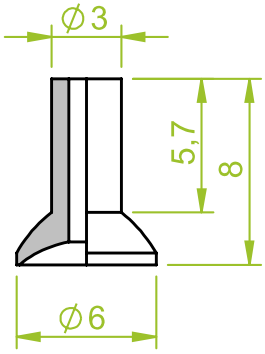
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.009 130.200 270.064 270.065	M5 IG 1/8" AG M5 AG 1/8" AG 1/8" IG

0.7mm	1g

10.006.067._



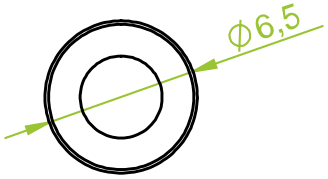


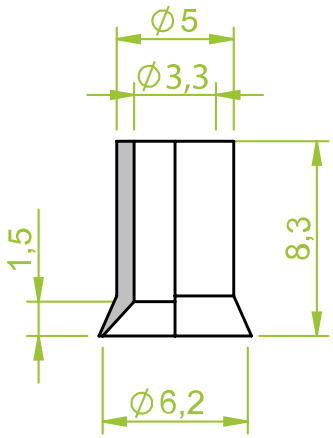
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.025	M3 AG

1.5mm	0.1g

10.006.095._



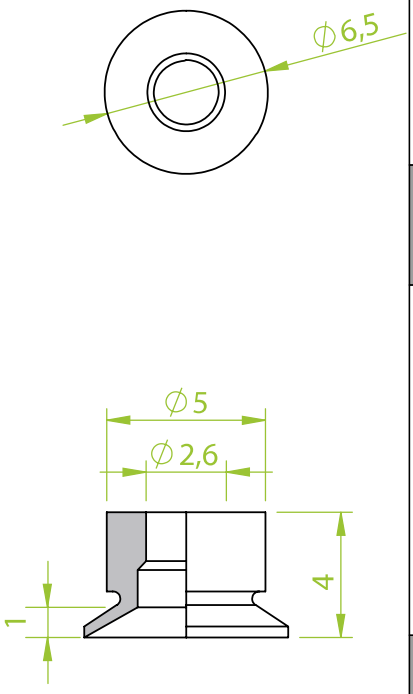


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.613	M5 AG

mm	0g

10.006.151._

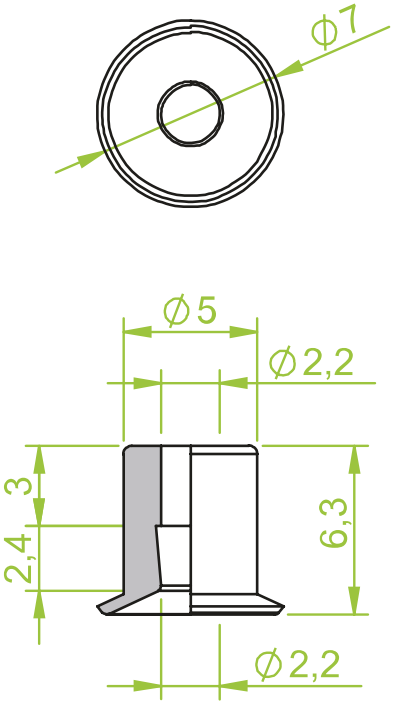


Materialcode
06 EPDM 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.111 130.300	M4 AG M5 AG

0.5mm	1g

10.007.035._

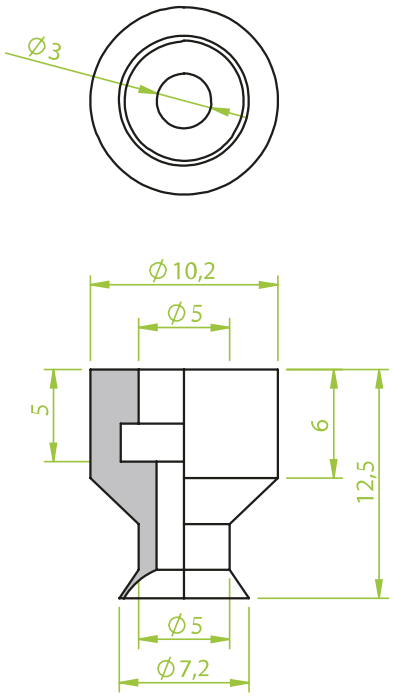


Materialcode
06 EPDM 09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.591	M5 AG

1mm	1g

10.007.153._

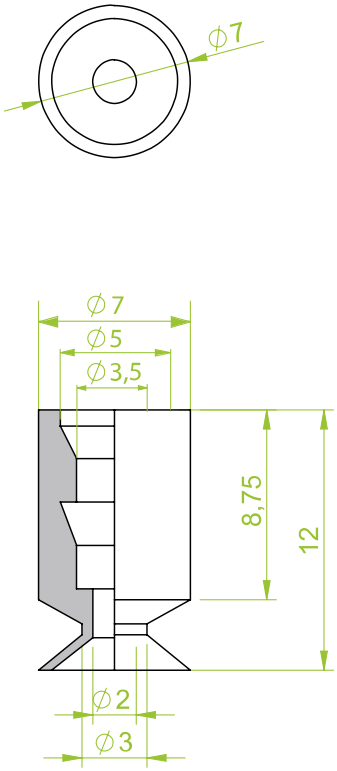


Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.037 130.038 130.085 130.086	M5 AG 1/4" IG 1/8" AG 1/8" IG

1.6mm	0.5g

10.007.638._



Materialcode
05 Polyurethan 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.024 130.033 130.104	M5 AG 1/8" AG M6 AG

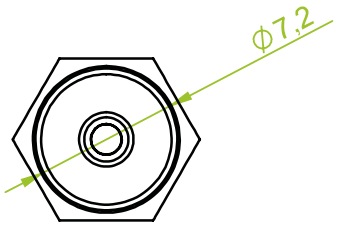
1mm	0.2g

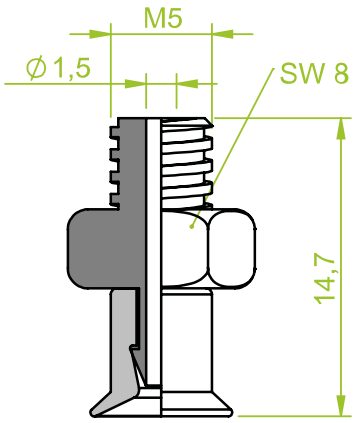
Flachsauger I *Flat cups*

10.007.694._

Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.024	M5 AG
130.033	1/8" AG
130.104	M6 AG
1mm	1g

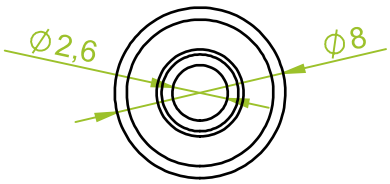
12.007.041._

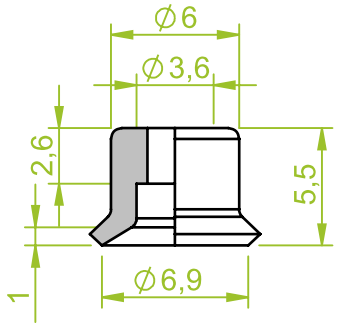




Materialcode	
06 EPDM 09 HNBR 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
1mm	1g

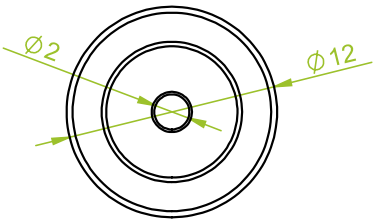
10.008.045._

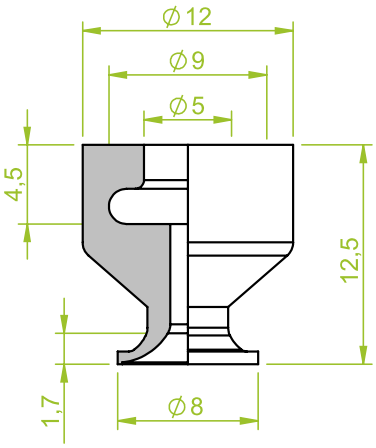




Materialcode	
07 FKM 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.283	M5 AG
1mm	1g

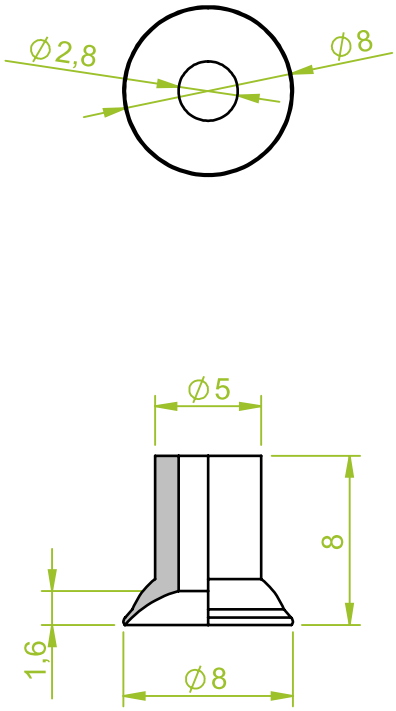
10.008.059._





Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.005	M5 IG
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.200	M5 AG
270.064	1/8" AG
270.065	1/8" IG
1.0mm	1.3g

10.008.068._

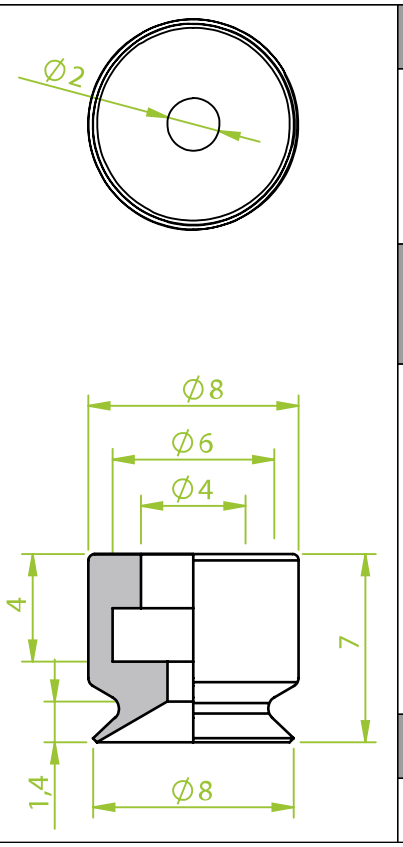


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.591	M5 AG
130.613	M5 AG

1mm	1g

10.008.136._

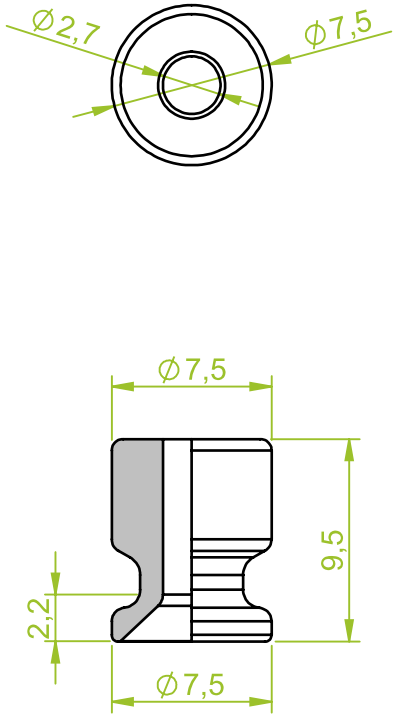


Materialcode
07 FKM 09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

1.4mm	1g

10.008.154._

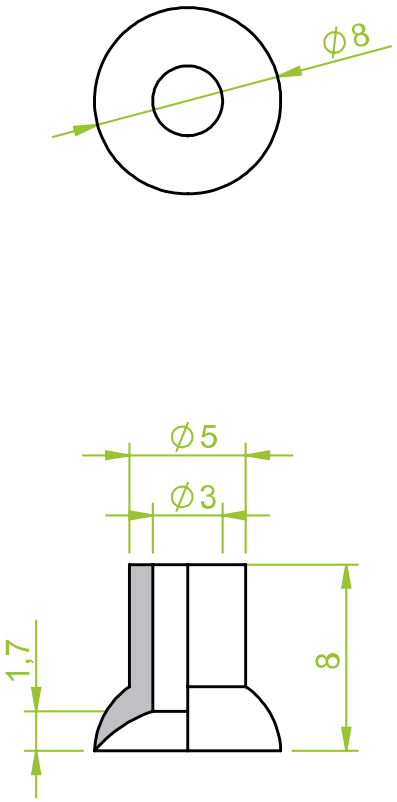


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.613	M5 AG

1.5mm	1g

10.008.155._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.153	M5 AG
130.613	M5 AG

1mm	0.3g

Morali Produktionstechnik GmbH
Handling technology

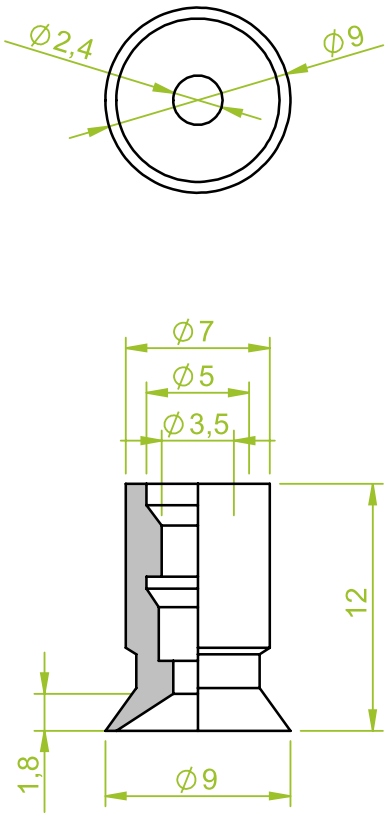
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.008.164._

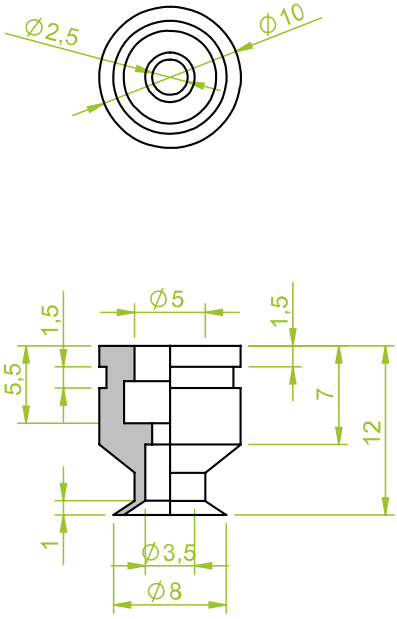


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.242	1/8" AG
270.399	M5 AG

0.8mm	0.4g

10.008.166._

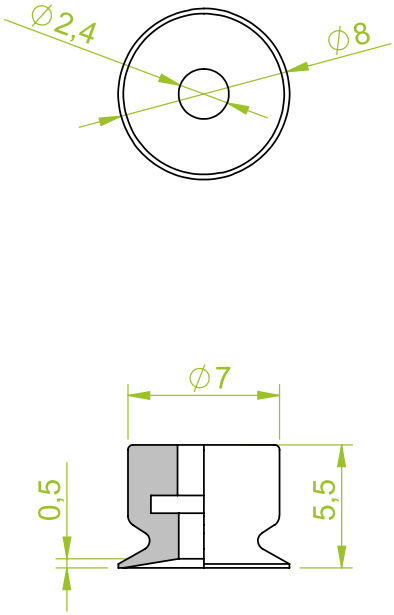


Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

0.5mm	1g

10.008.168._

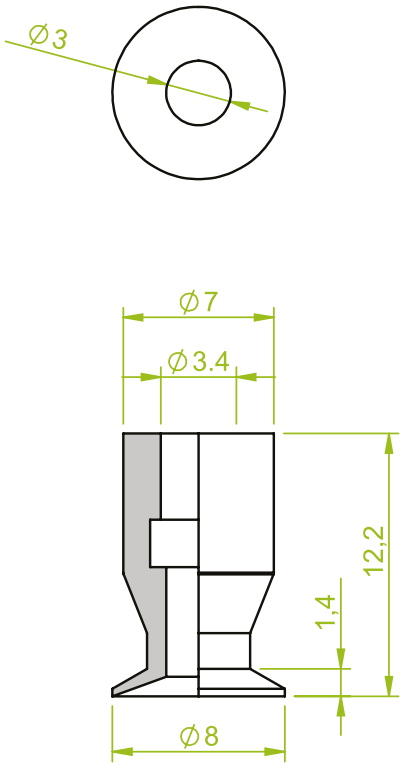


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.111	M4 AG
130.283	M5 AG

mm	0g

10.008.611._

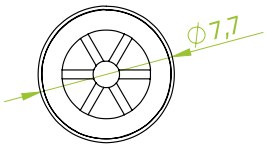


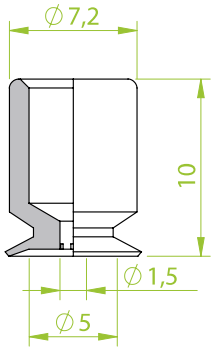
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.009	1/8" AG
130.010	M5 AG

1mm	0.3g

10.008.630._



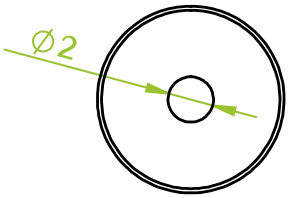


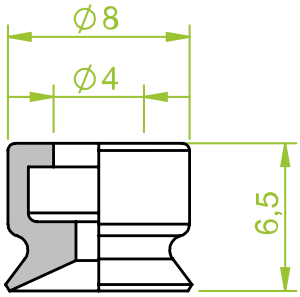
Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG

1mm	0.2g

10.008.681._



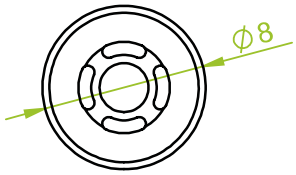


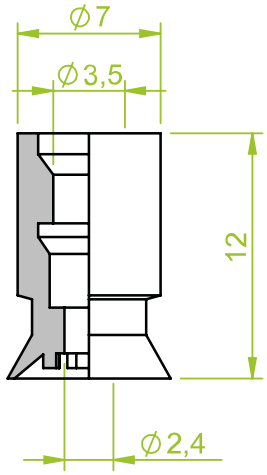
Materialcode
07 FKM 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

1.3mm	0.4g

10.008.695._



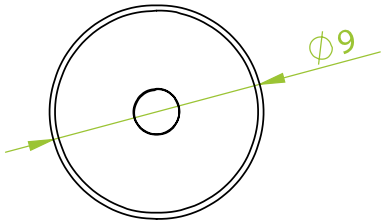


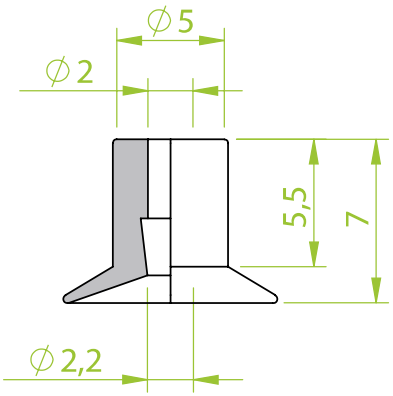
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.033	1/8" AG
130.104	M6 AG

mm	0g

10.009.020._





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.591	M5 AG

1.5mm	1g

Morali Produktionstechnik GmbH
Handling technology

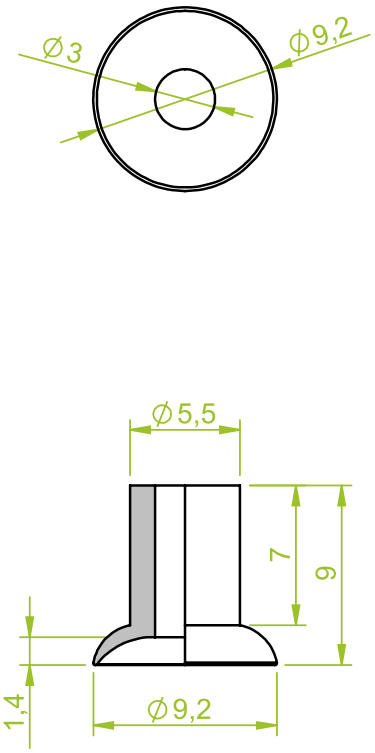
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.009.169._

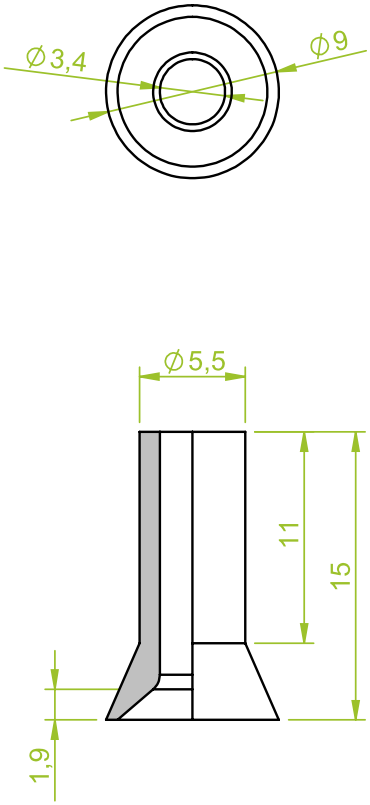


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.613	M5 AG

1mm	0.2g

10.009.170._

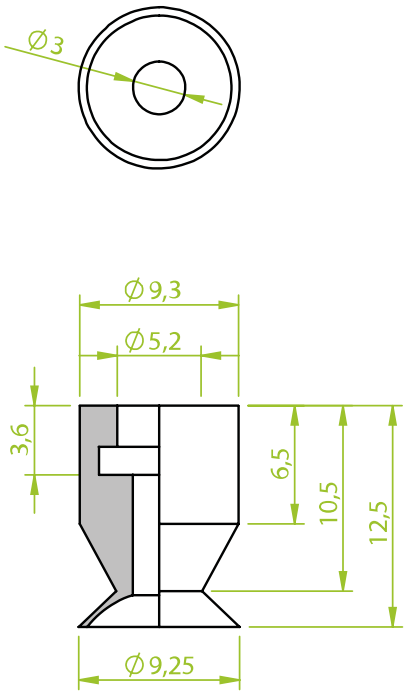


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
270.478	1/8" IG

1.5mm	1g

10.009.185._

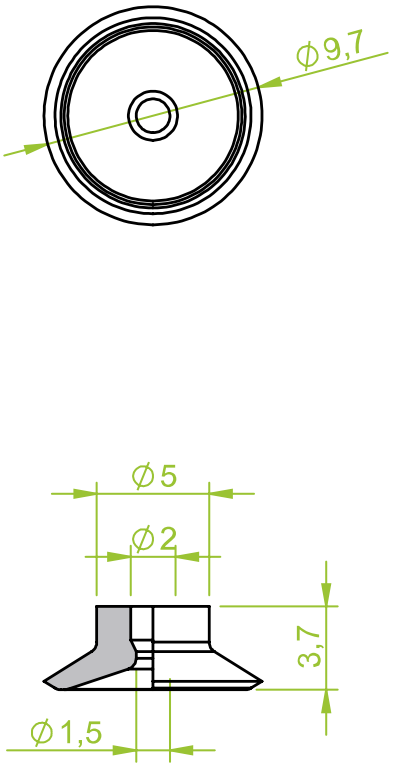


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG

1mm	0.3g

10.009.580._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

1mm	0.1g

MORALI VACTEC SYSTEMS

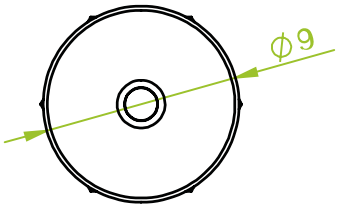
Morali Produktionstechnik GmbH
Handling technology

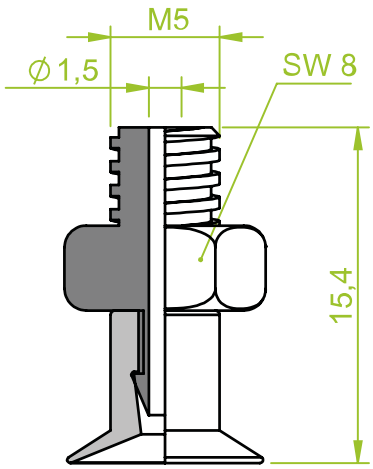
Stadtweg 30
D-78658 Zimmern o.R.

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

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

12.009.042._



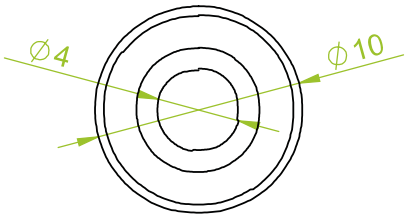


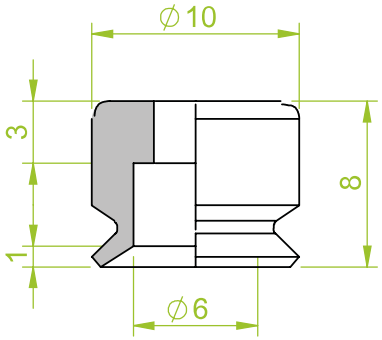
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	1g

10.010.046._



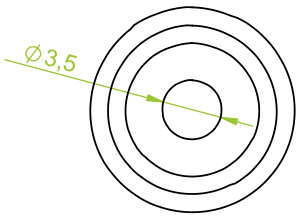


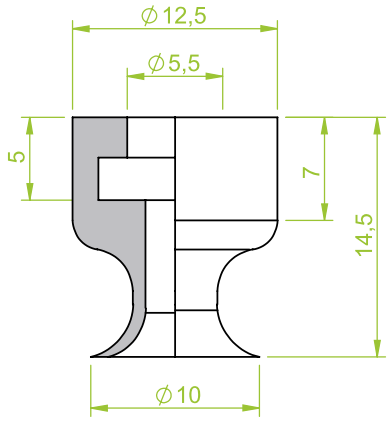
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

1mm	1g

10.010.060._



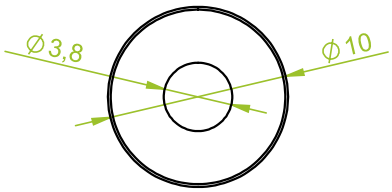


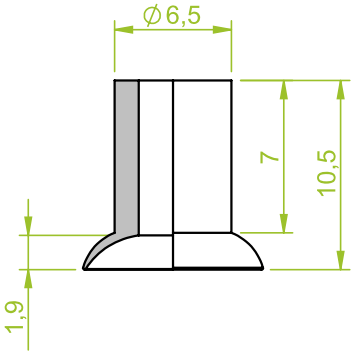
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.009	1/8" AG
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
270.064	1/8" AG
270.065	1/8" IG

0.5mm	0.8g

10.010.070._





Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
270.347	M5 IG
270.478	1/8" IG

1mm	0.3g

Morali Produktionstechnik GmbH
Handling technology

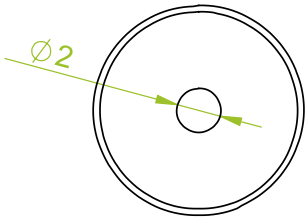
Stadtweg 30
D-78658 Zimmern o.R.

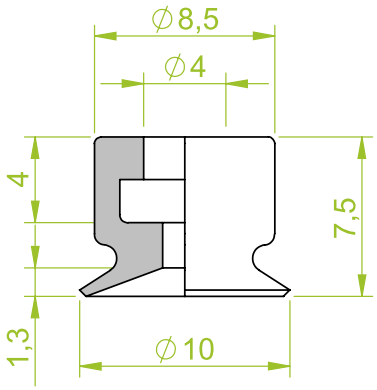
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.010.138._



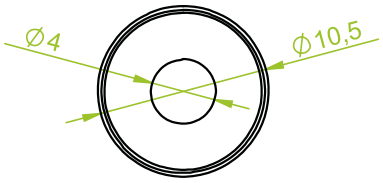


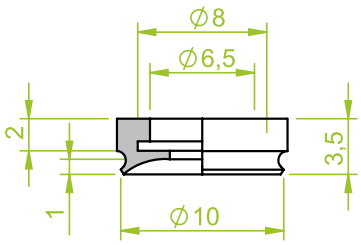
Materialcode
07 FKM 09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG

1.2mm	1g

10.010.187._



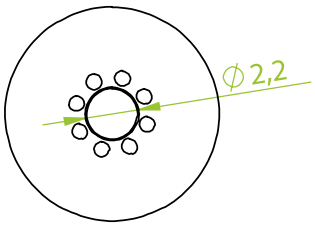


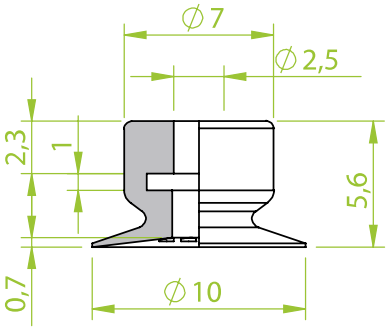
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
270.382	M5 IG

0.3mm	1g

10.010.188._





Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.111 130.283	M4 AG M5 AG

0.7mm	1g

10.010.189._

Materialcode

Halter *Fitting*	Gewinde *Thread*
130.007 130.009 130.010	1/8" IG 1/8" AG M5 AG

0.5mm	0.3g

MORALI VACTEC SYSTEMS

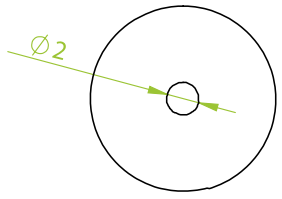
Morali Produktionstechnik GmbH
Handling technology

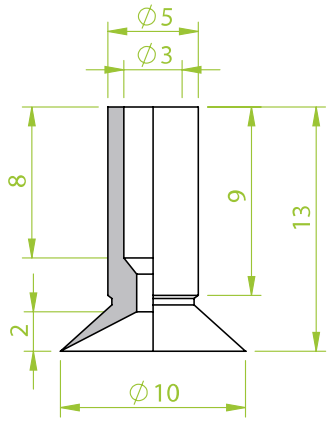
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.010.191._

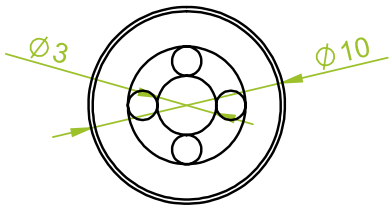


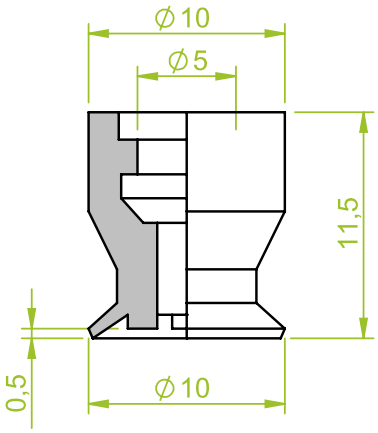


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.022	M5 AG
1mm	1g

10.010.192._

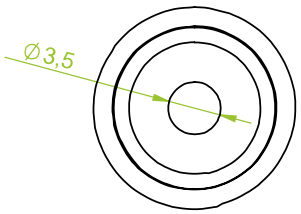


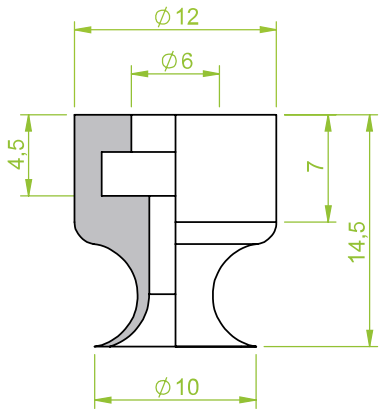


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094 130.095 130.096	M5 AG 1/8" AG 1/8" IG
1.5mm	1g

10.010.194._

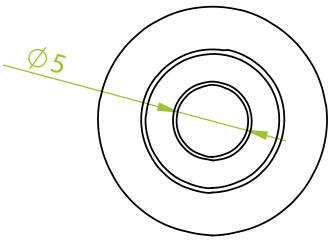


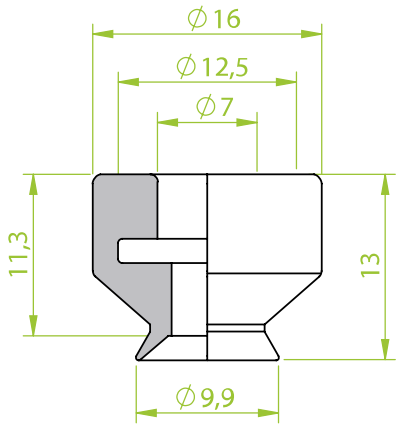


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.009	M5 IG 1/8" AG
mm	0g

10.010.584._



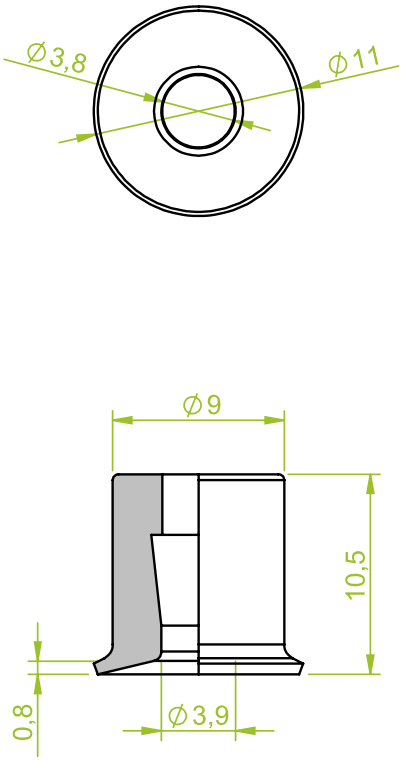


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604 130.605 130.606	M5 AG 1/8" AG 1/4" AG
1.5mm	1.7g

Flachsauger I *Flat cups*

10.011.036._

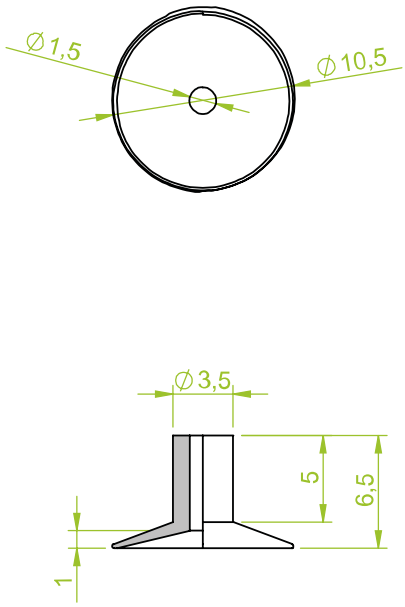


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.104	M6 AG
130.134	M5 AG

1mm	0.3g

10.011.195._

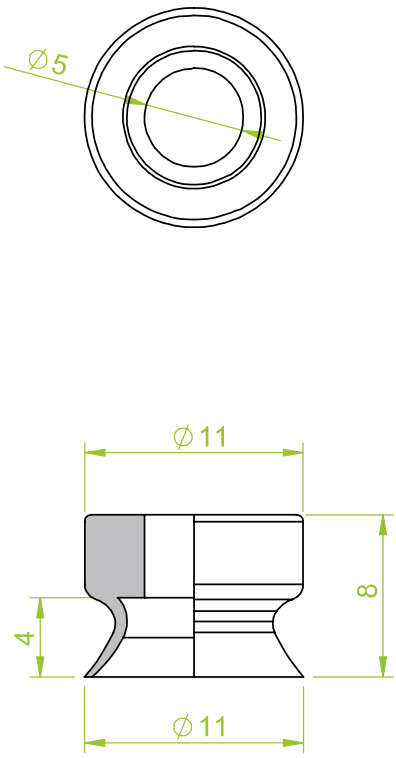


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.001	M5 AG
130.025	M3 AG

0.5mm	0.1g

10.011.196._



Materialcode
07 FKM 09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

1mm	1g

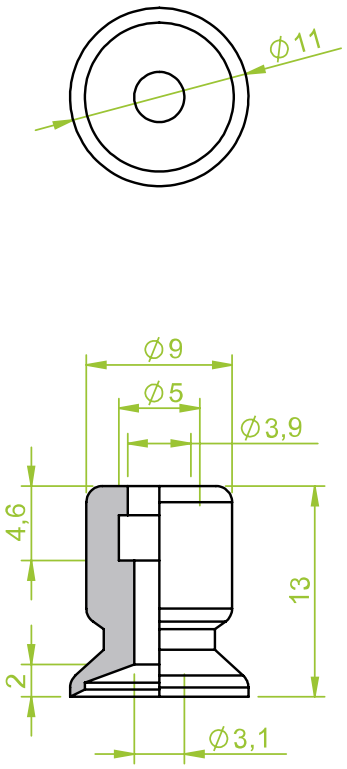
10.011.197._

Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
270.347	M5 IG
270.478	1/8" IG

1.5mm	1g

10.011.198._

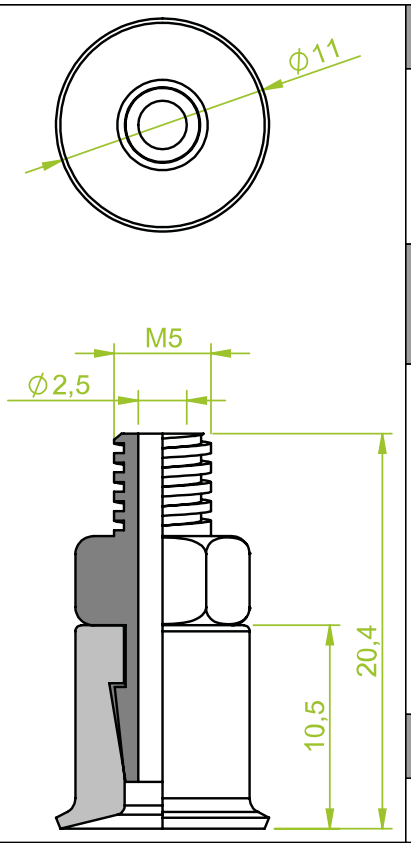


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.024	M5 AG
130.033	1/8" AG
270.478	1/8" IG

0.5mm	0.3g

12.011.043._

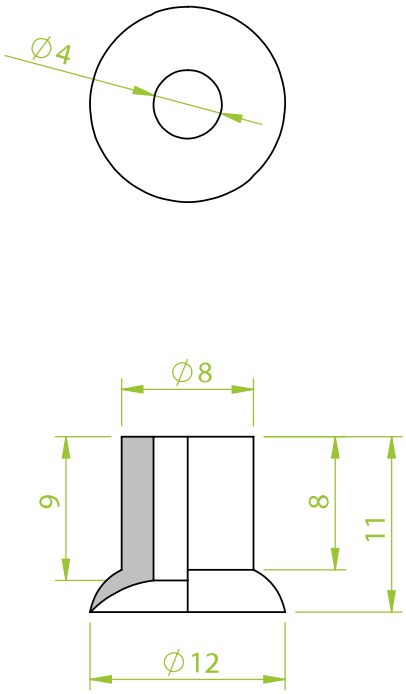


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	1.3g

10.012.071._

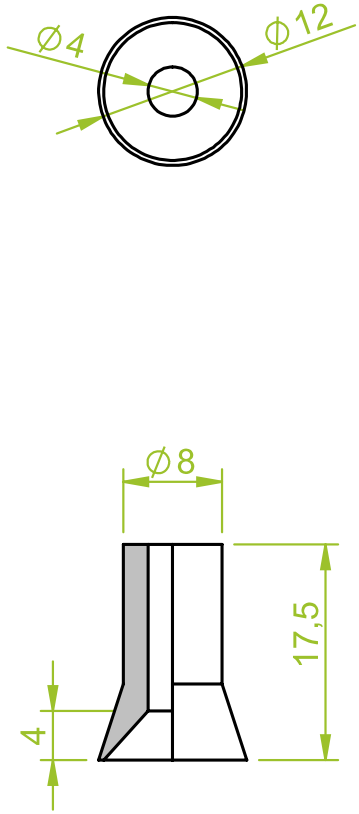


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.033	1/8" AG

1.5mm	1g

10.012.171._



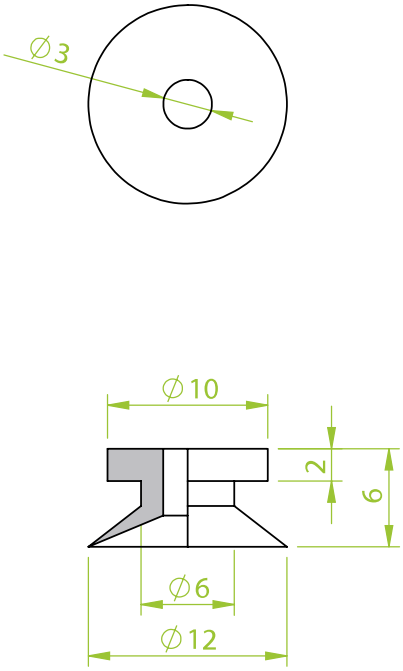
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.087	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.347	M5 IG
270.478	1/8" IG

2.5mm	1g

Flachsauger I *Flat cups*

10.012.199._

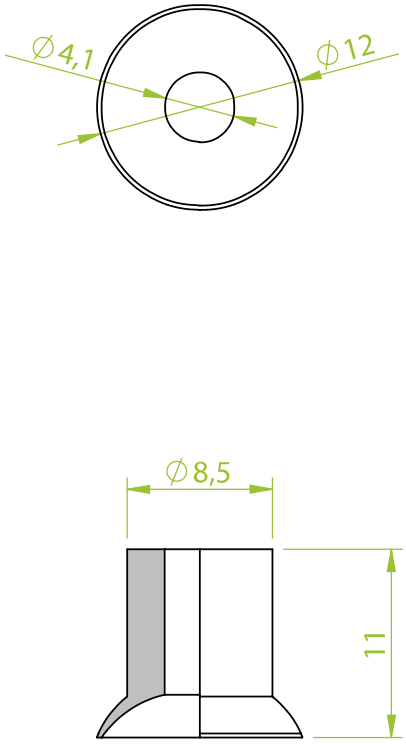


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.283	M5 AG

2.5mm	1g

10.012.200._

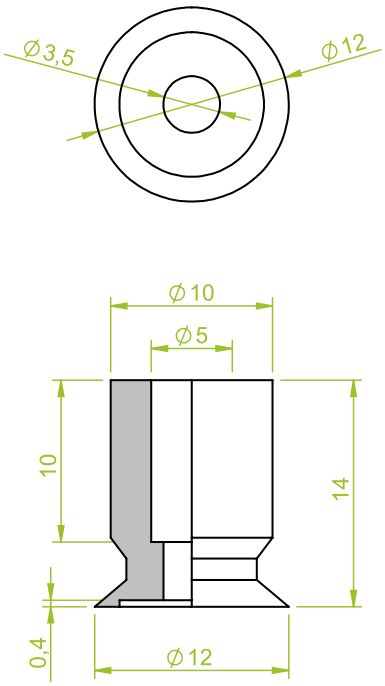


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.024	M5 AG
130.033	1/8" AG

1.5mm	1g

10.012.204._

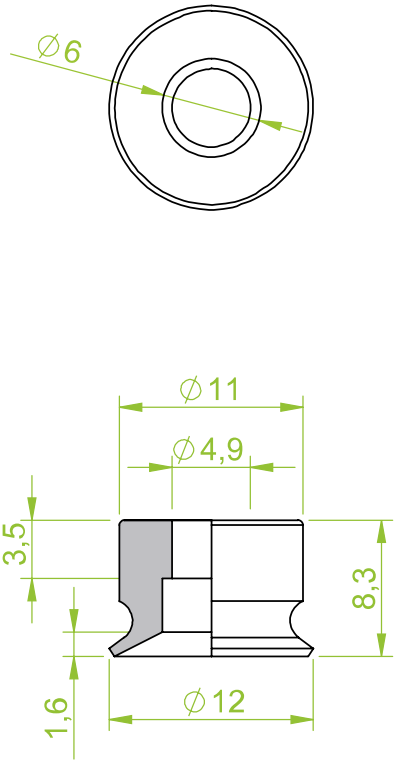


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

0.4mm	1g

10.012.205._



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.095	1/8" AG
130.096	1/8" IG

1mm	1g

MORALI VACTEC SYSTEMS

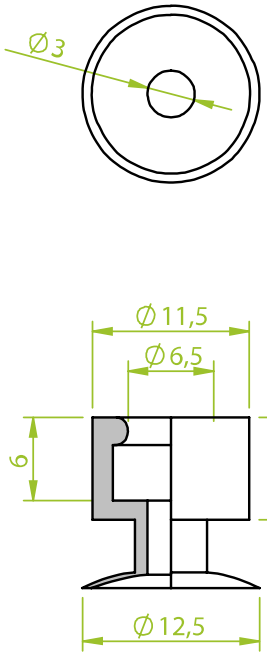
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.012.206._

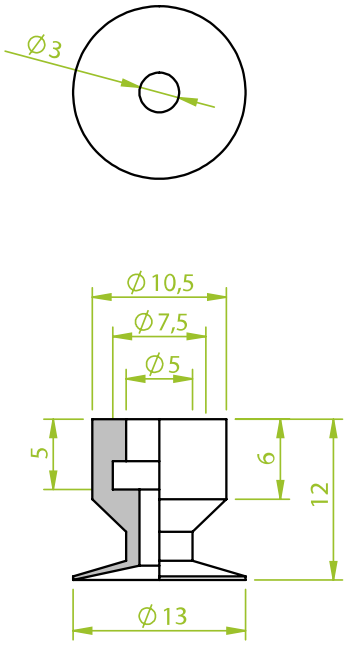


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

1.5mm	1g

10.013.207._

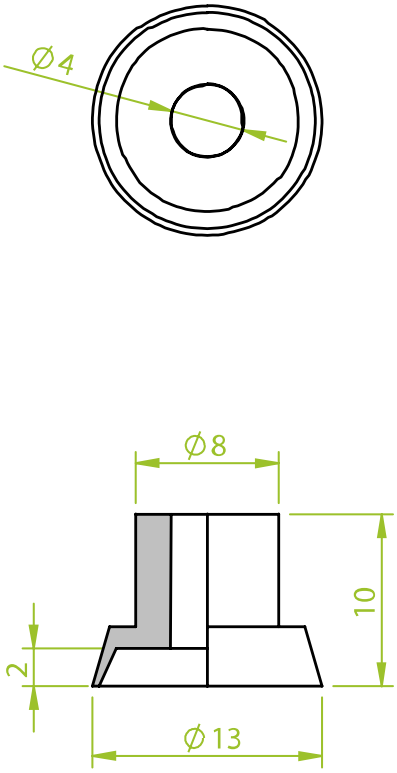


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.094	M5 AG
130.200	M5 AG

0.5mm	1g

10.013.209._

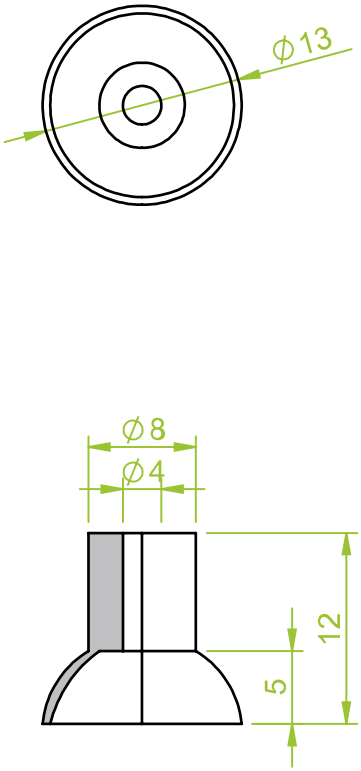


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG
130.033	1/8" AG
270.478	1/8" IG

2mm	0.2g

10.013.352._



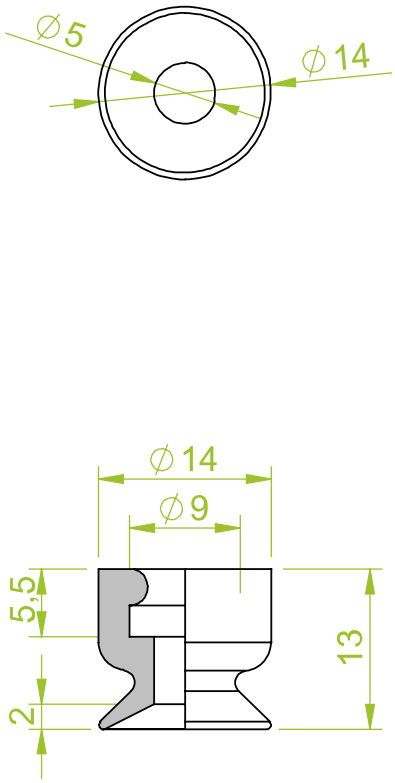
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.010	M5 AG
130.033	1/8" AG

3.5mm	0.5g

Flachsauger I *Flat cups*

10.014.216._

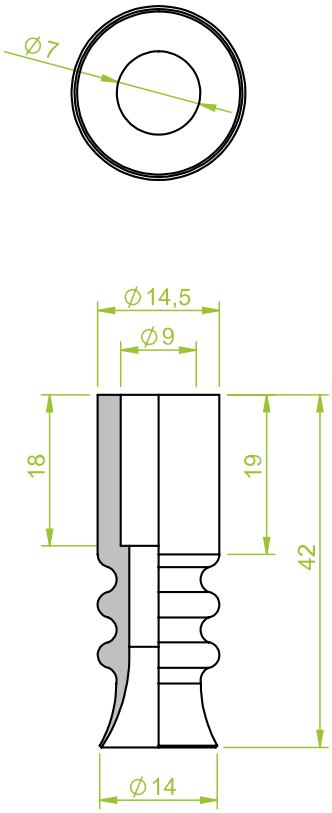


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

2mm	1g

10.014.686._

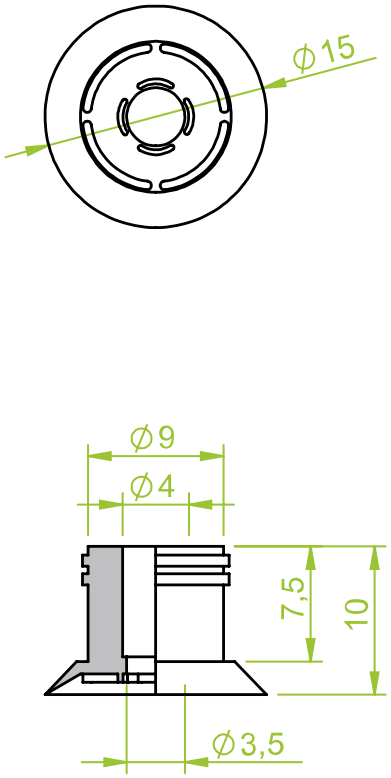


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.132	1/8" AG
130.208	1/4" AG

5mm	4g

10.015.031._

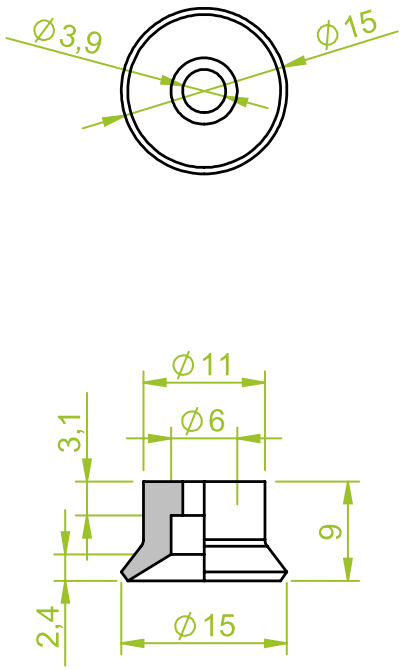


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.015	1/8" IG
130.033	1/8" AG
130.087	1/8" AG
130.104	M6 AG
130.134	M5 AG
270.478	1/8" IG

1mm	0.5g

10.015.047._

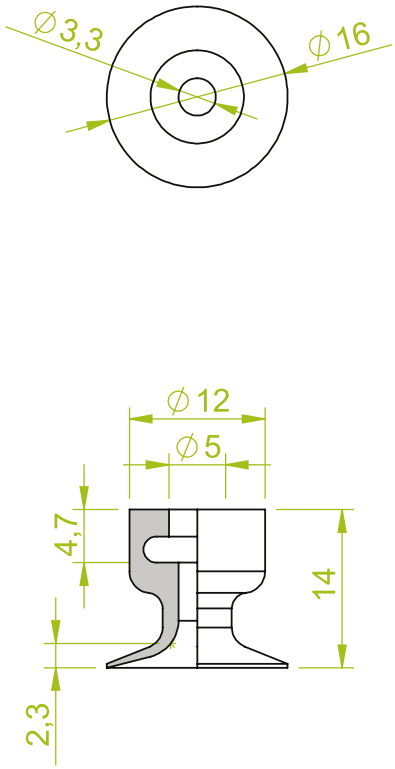


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

1.5mm	1g

10.015.061._

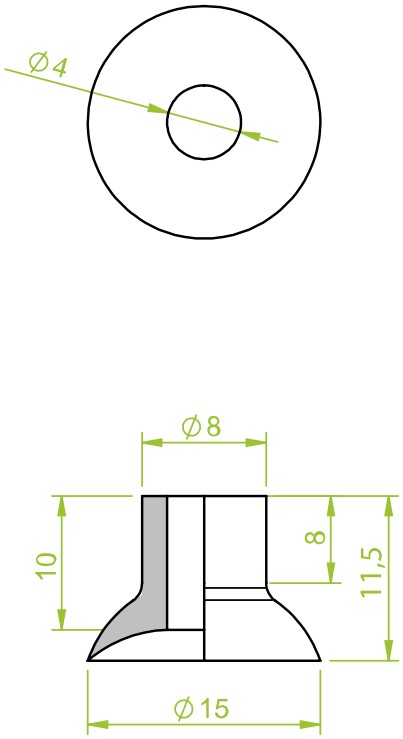


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG

2mm	1g

10.015.073._

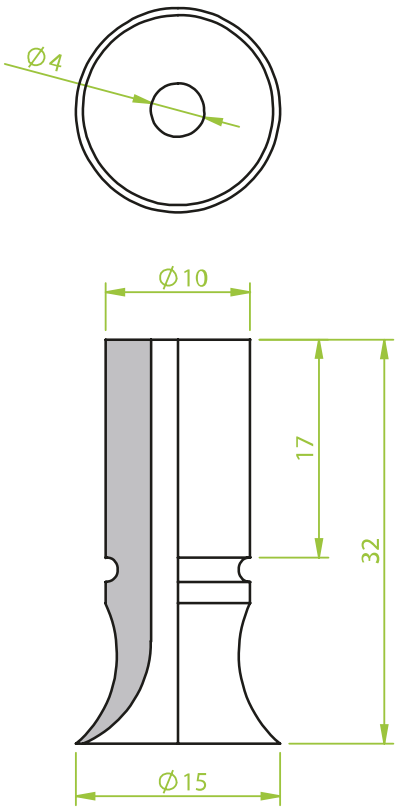


Materialcode
03 NR 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

2mm	0.6g

10.015.114._

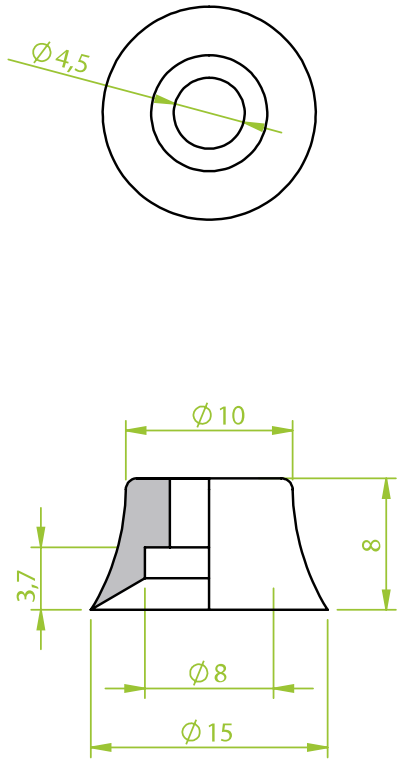


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

6mm	1.8g

10.015.139._



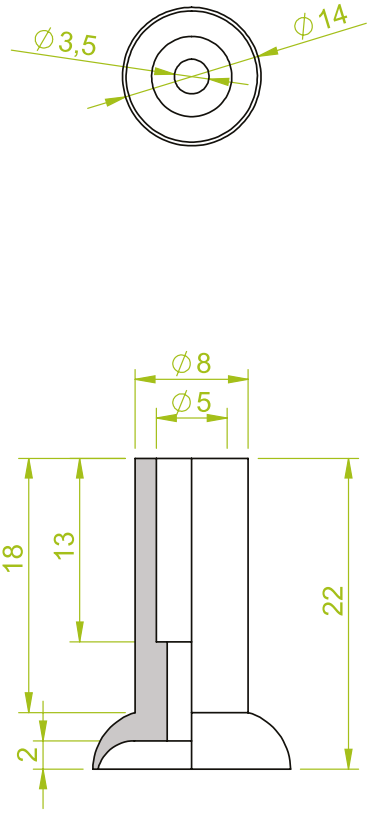
Materialcode
07 FKM 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.010	M5 AG
130.021	1/8" AG

2mm	1g

Flachsauger I *Flat cups*

10.015.222._

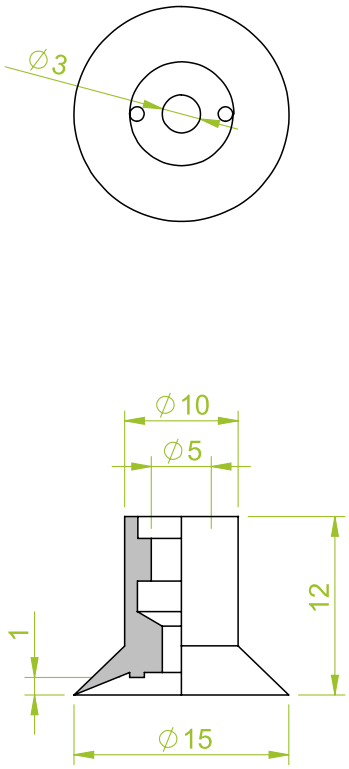


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

3mm	1.4g

10.015.225._

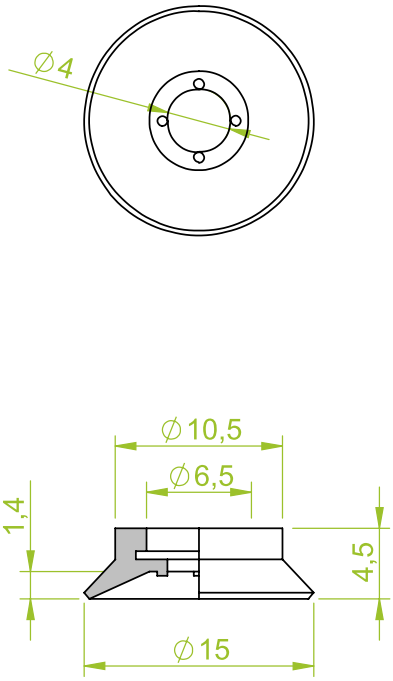


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG

1mm	0.82g

10.015.227._

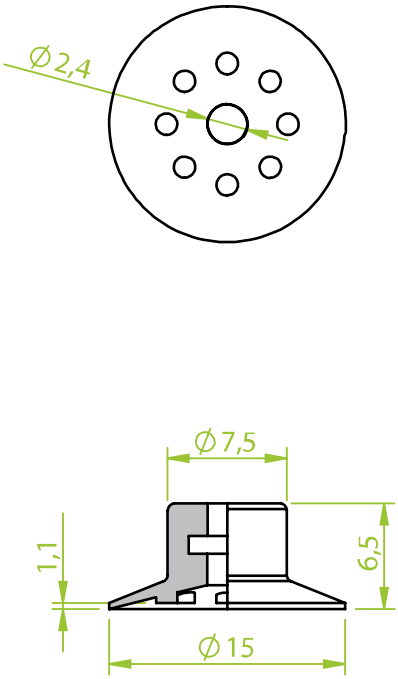


Materialcode

Halter *Fitting*	Gewinde *Thread*

mm	0g

10.015.228._



Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.111	M4 AG
130.283	M5 AG
130.591	M5 AG

1.1mm	1g

MORALI VACTEC SYSTEMS

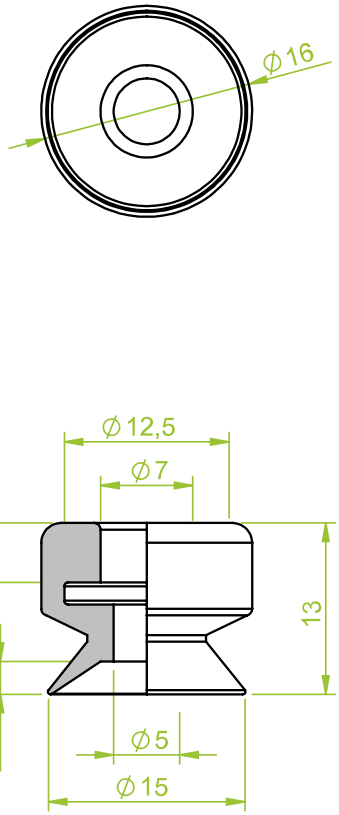
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.015.585._

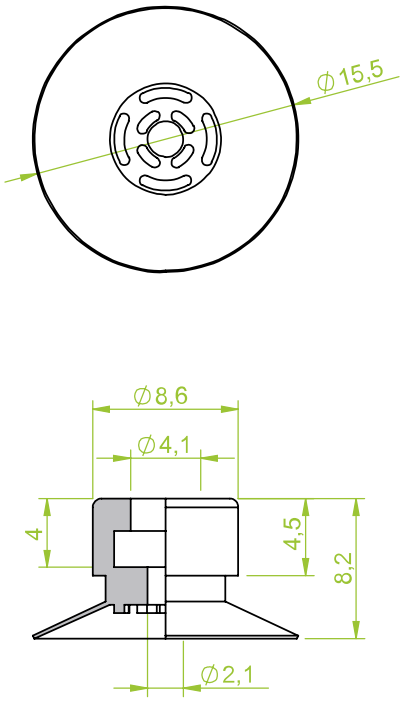


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604 130.605 130.606	M5 AG 1/8" AG 1/4" AG

3.5mm	1.9g

10.015.604._

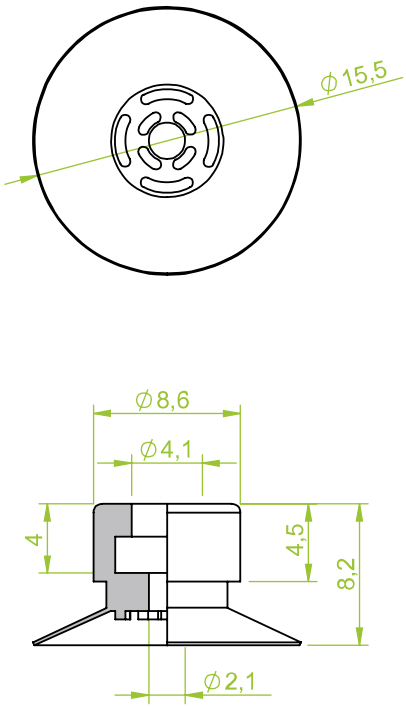


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014	M3 AG

1.5mm	0.2g

10.015.693._



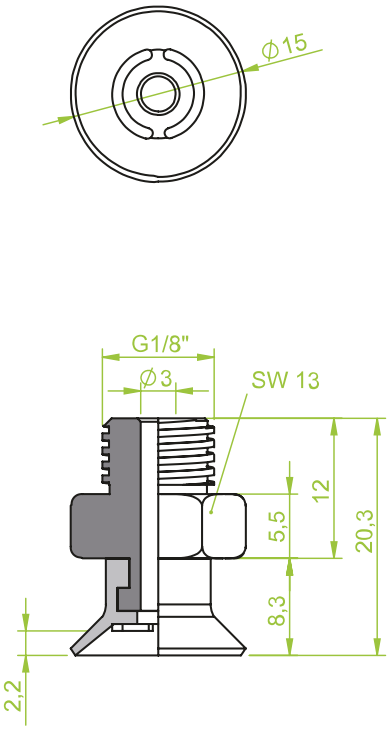
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG

1mm	0.3g

14.015.043._

vulkanisiert



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.2mm	3.8g

Morali Produktionstechnik GmbH
Handling technology

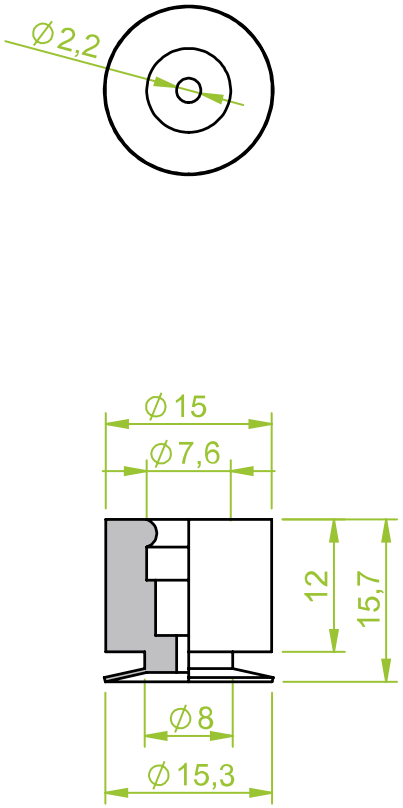
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.016.007._

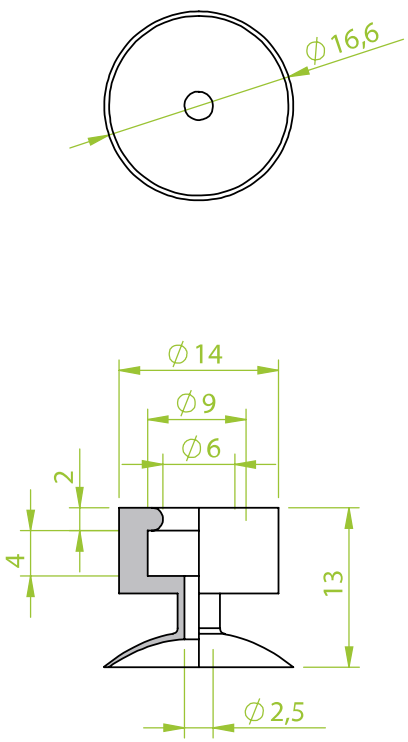


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.085	1/8" AG
130.086	1/8" IG

1mm	1.9g

10.016.012._

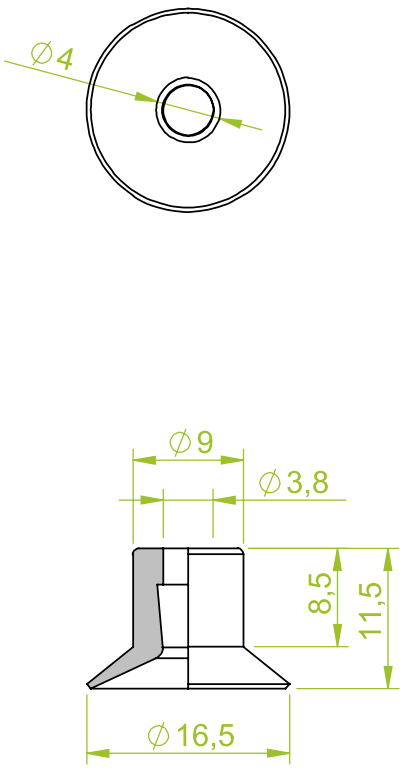


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.085	1/8" AG
130.086	1/8" IG

3mm	0g

10.016.037._

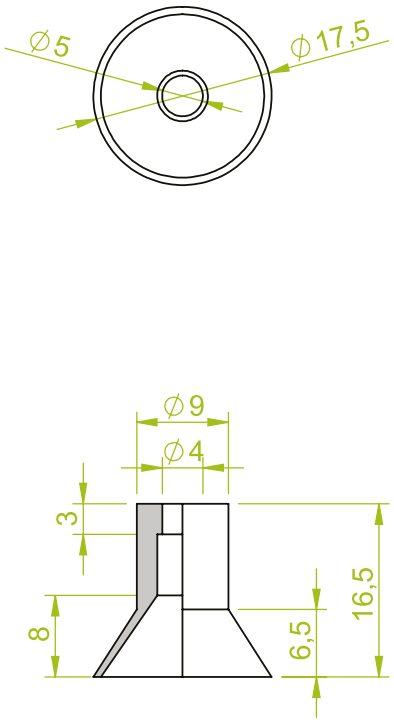


Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.104	M6 AG
130.109	1/8" IG
130.134	M5 AG

2mm	0.6g

10.016.038._

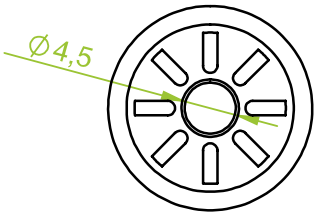


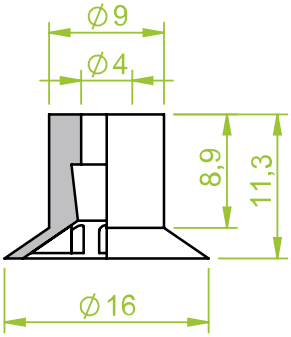
Materialcode
04 CR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.024	M5 AG
130.103	M6 AG
130.134	M5 AG

2.5mm	1.2g

10.016.039._



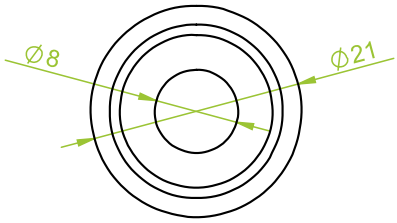


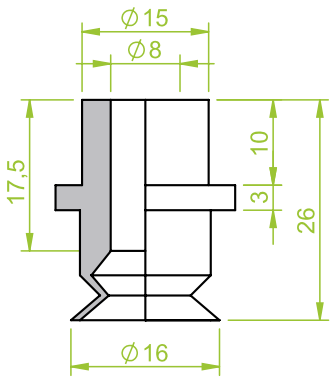
Materialcode
04 CR 06 EPDM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.024	M5 AG
130.104	M6 AG
130.109	1/8" IG
130.134	M5 AG

0.5mm	1g

10.016.092._



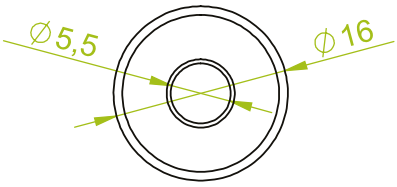


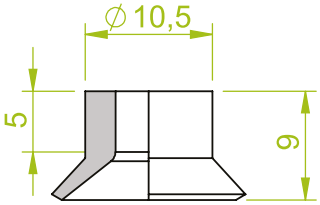
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.114	1/8" IG
130.132	1/8" AG

5mm	3.5g

10.016.172._



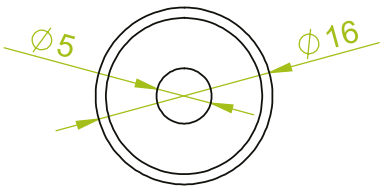


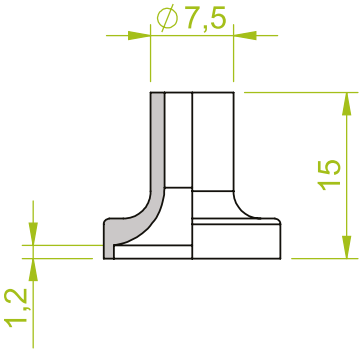
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.095	1/8" AG
130.096	1/8" IG

3mm	0.4g

10.016.236._





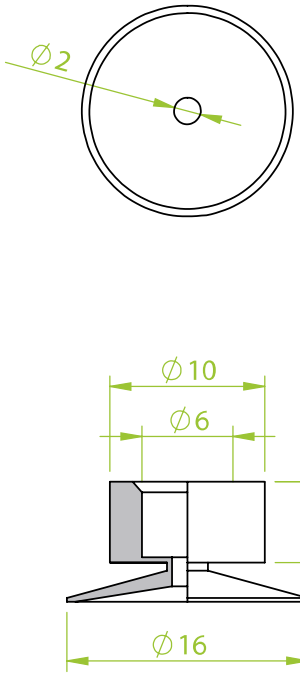
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

3.0mm	1g

Flachsauger I *Flat cups*

10.016.239._

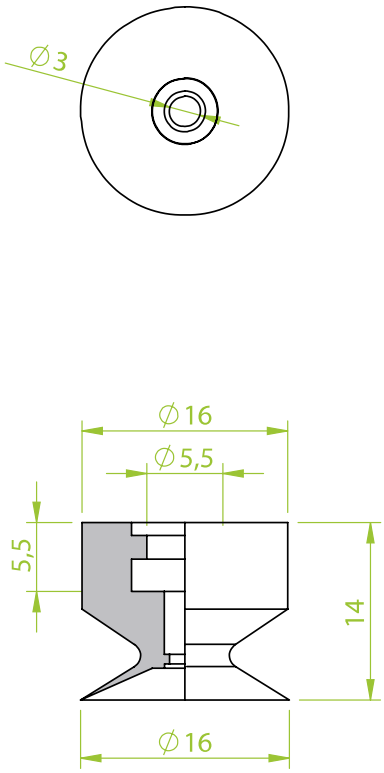


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.200	M5 AG
130.373	M5 AG

0.5mm	0.4g

10.016.240._

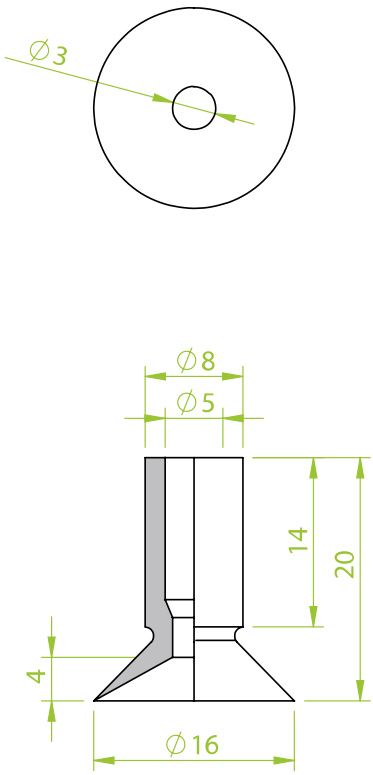


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG

2mm	1g

10.016.243._

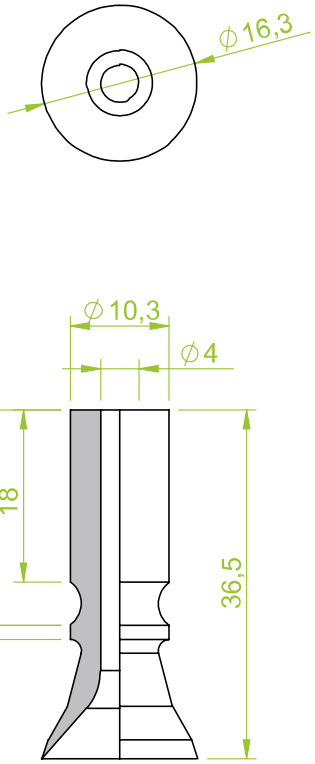


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.023	M5 AG
130.109	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

5mm	1g

10.016.353._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG

6mm	2.6g

MORALI VACTEC SYSTEMS

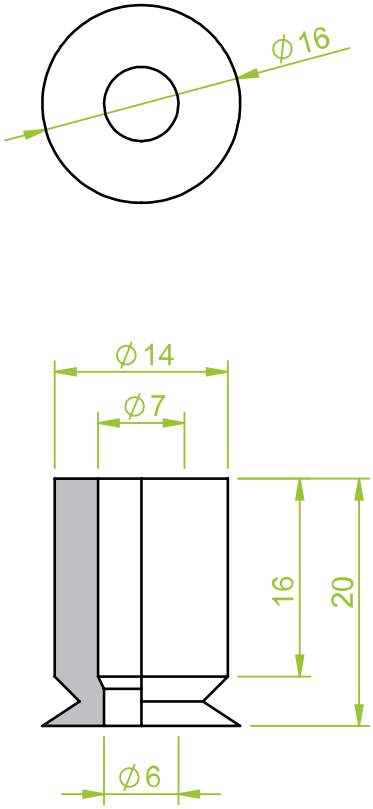
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.016.651._

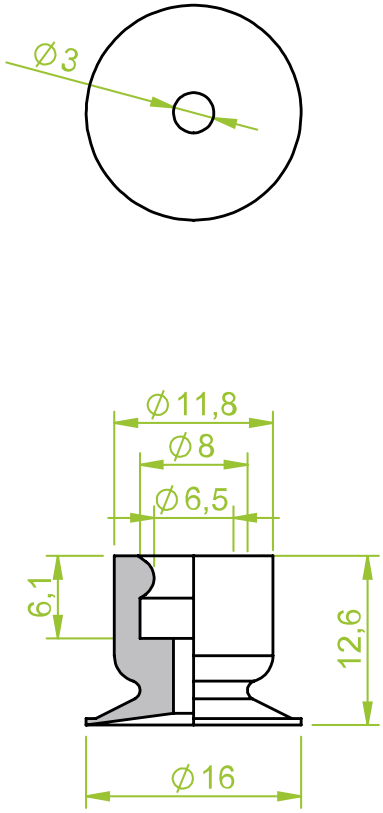


Materialcode	

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG

3mm	1.8g

10.016.658._

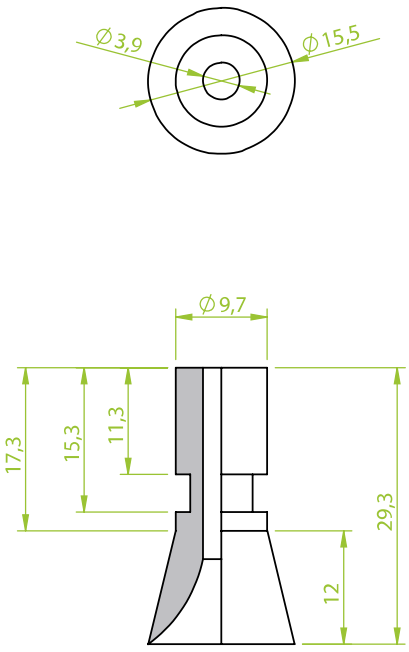


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.085 130.086	1/8" AG 1/8" IG

2mm	0.8g

10.016.685._

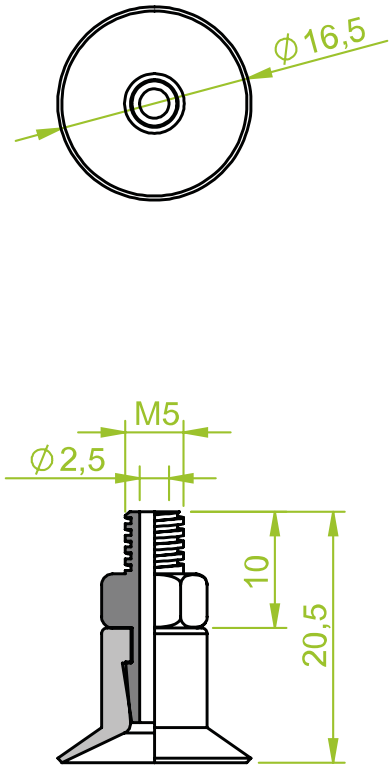


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033 130.134	1/8" AG M5 AG

1mm	2.3g

12.016.044._



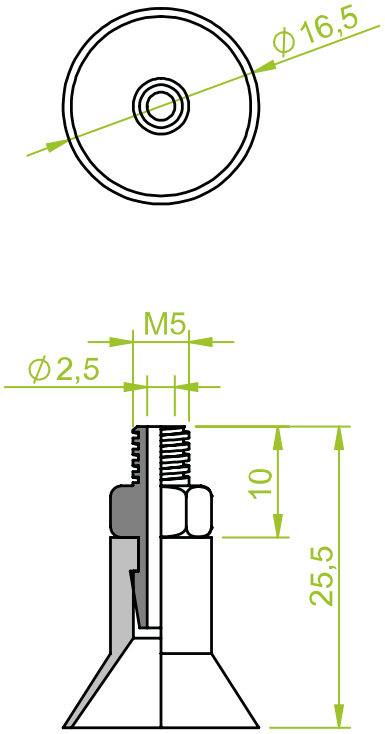
Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	1.6g

Flachsauger I *Flat cups*

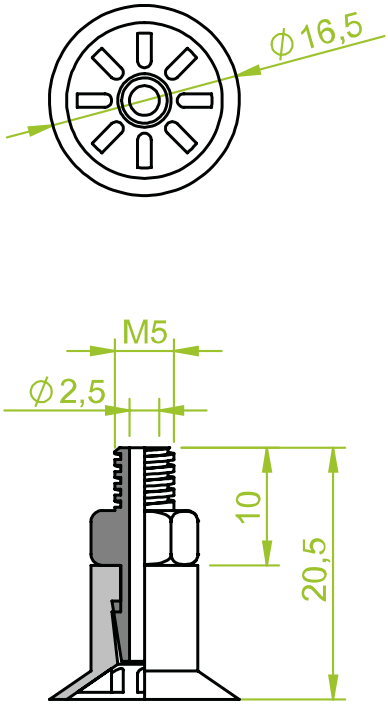
12.016.045._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
2.5mm	2.2g

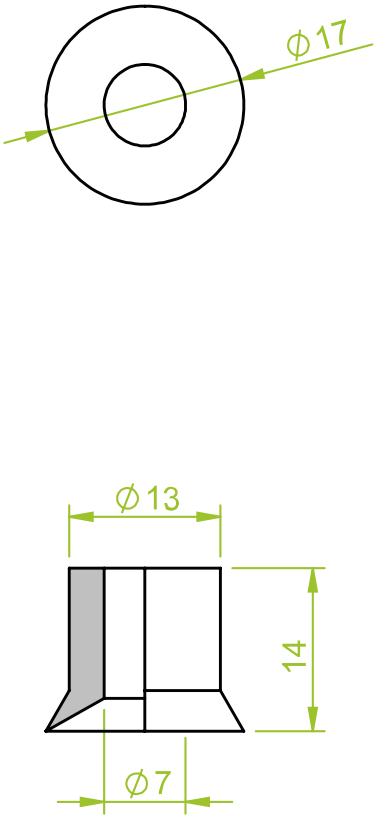
12.016.046._



Materialcode
06 EPDM 09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
0.5mm	1.6g

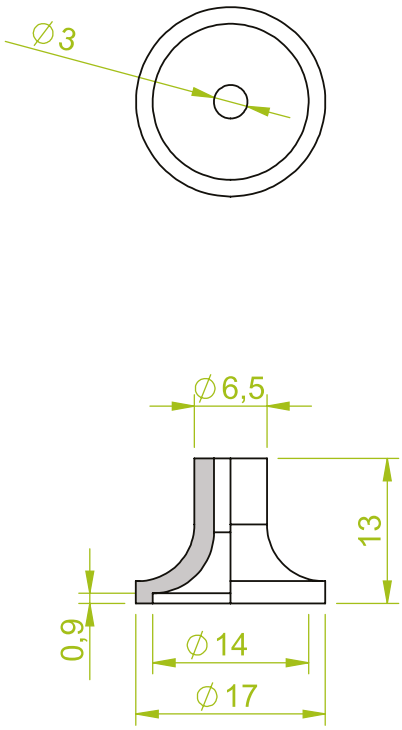
10.017.173._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.131	1/8" AG
2mm	1.2g

10.017.252._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.613	M5 AG
3.0mm	0.6g

MORALI VACTEC SYSTEMS

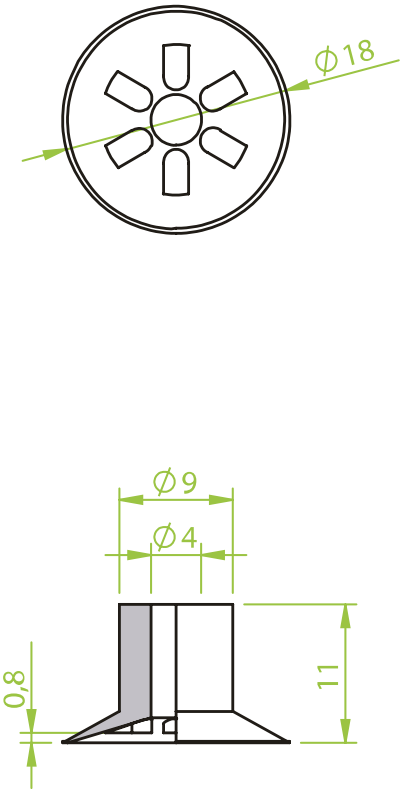
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.017.255._

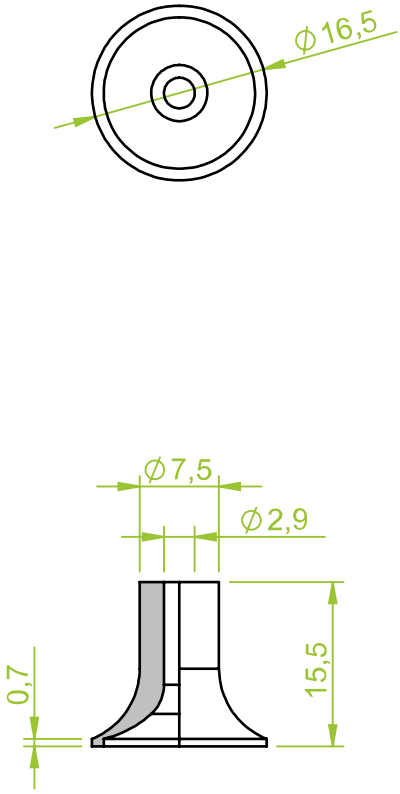


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.087	1/8" AG
130.104	M6 AG
130.134	M5 AG

1mm	0.64g

10.017.258._

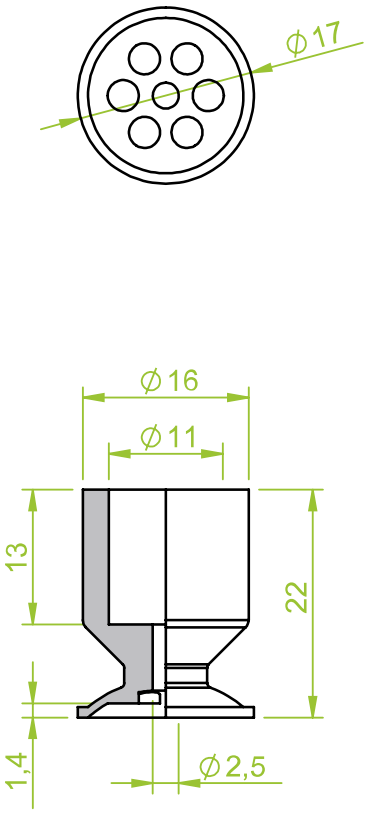


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.613	M5 AG

0.5mm	1g

10.017.595._

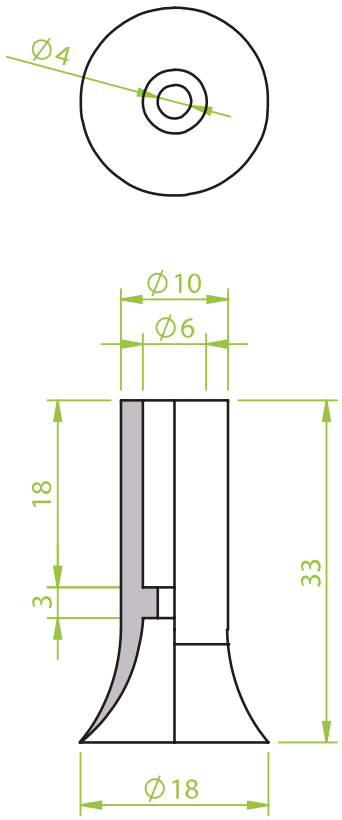


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG
130.609	1/4" AG

1.4mm	2.5g

10.018.088._



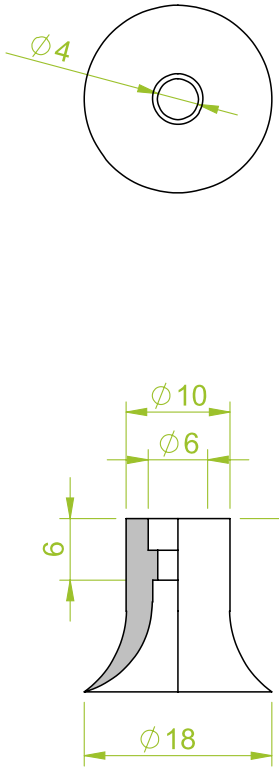
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.110	1/8" IG
130.238	1/8" AG
270.443	M5 AG
270.534	1/4" AG

3mm	1.3g

Flachsauger I *Flat cups*

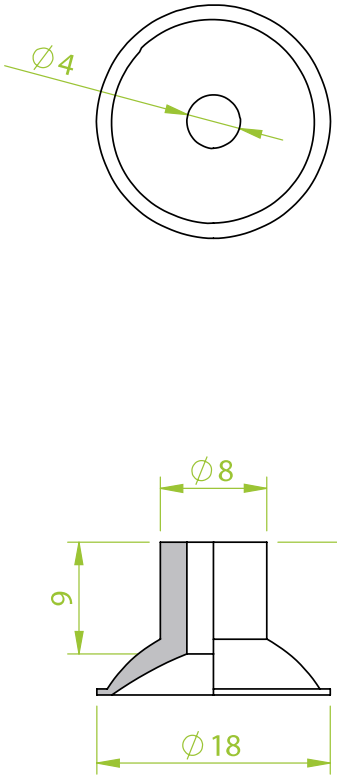
10.018.089._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
mm	1.0g

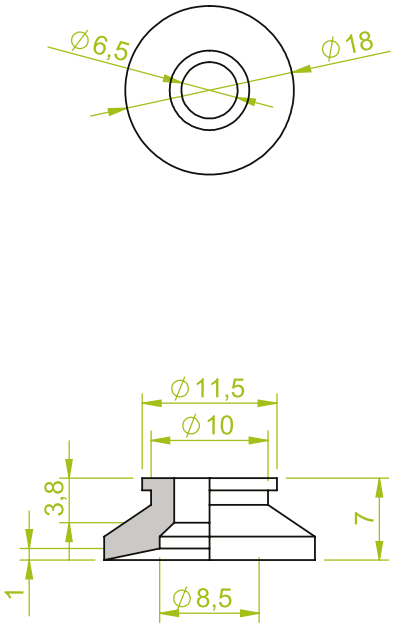
10.018.202._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.347	M5 IG
270.478	1/8" IG
2mm	1g

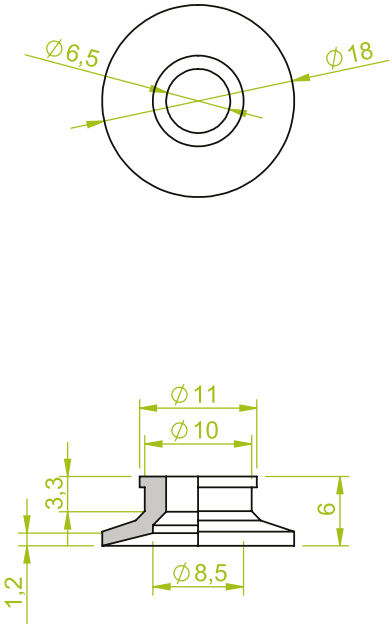
10.018.261._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG
0.5mm	0.2g

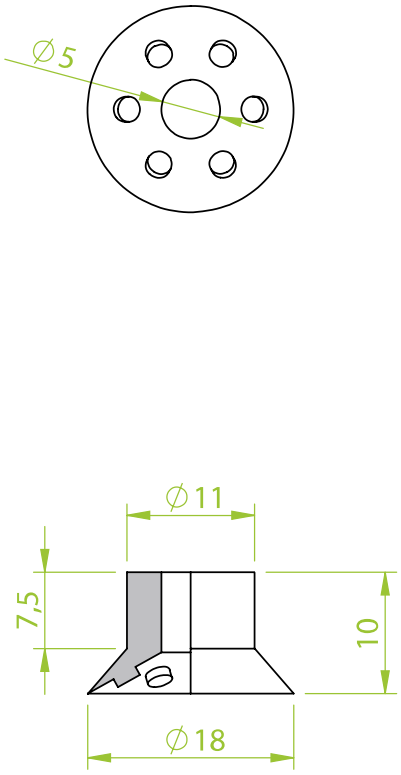
10.018.262._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG
0.5mm	0.2g

10.018.265._

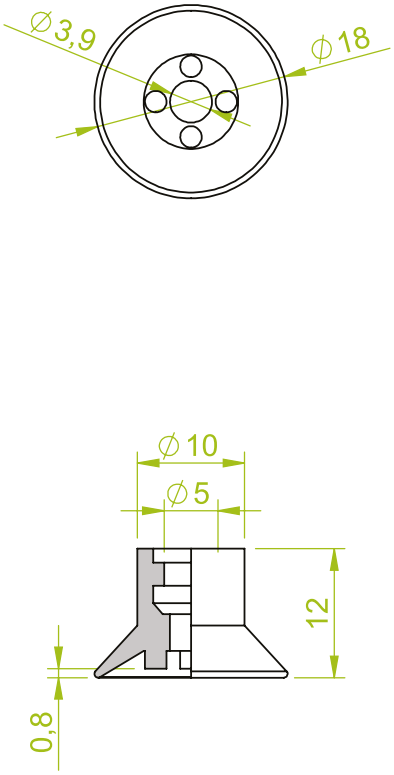


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

1mm	1g

10.018.266._

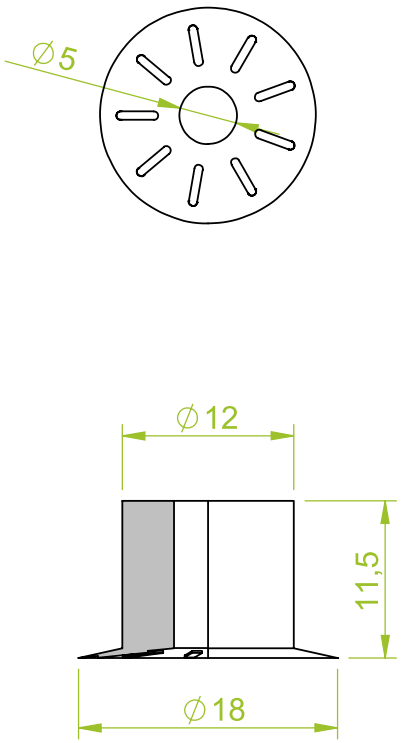


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG

1mm	1g

10.018.267._

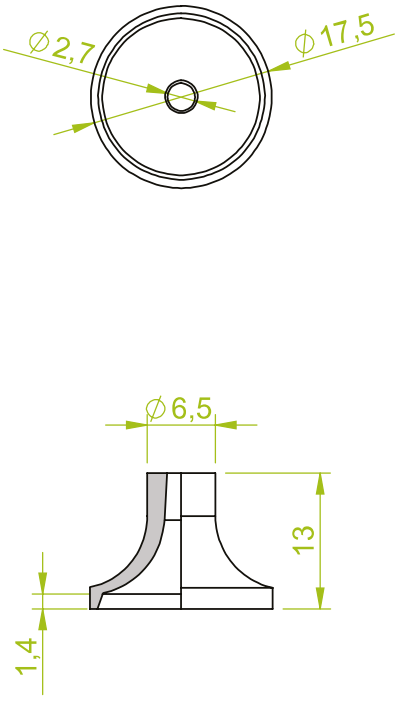


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.024	M5 AG
130.033	1/8" AG
130.103	M6 AG
130.350	M10 AG

0.5mm	1.2g

10.018.271._



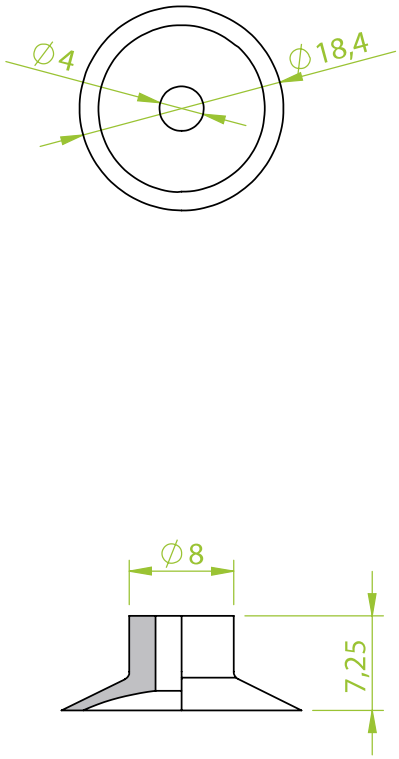
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.033	1/8" AG
130.347	M5 IG

2.0mm	2.0g

Flachsauger I *Flat cups*

10.018.621._

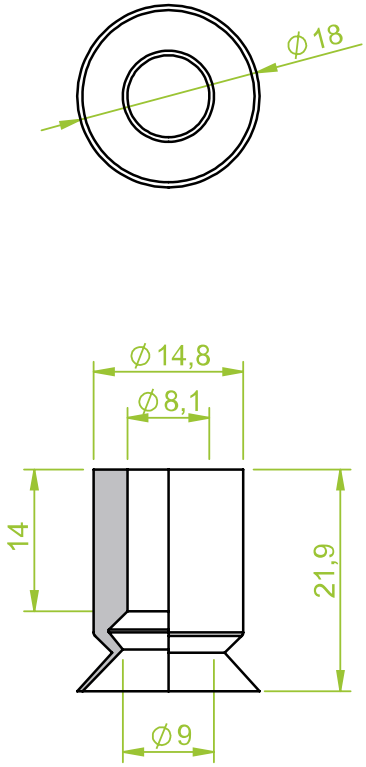


Materialcode	

Halter *Fitting*	Gewinde *Thread*
130.009	1/8" AG

1.5mm	1.0g

10.018.679._

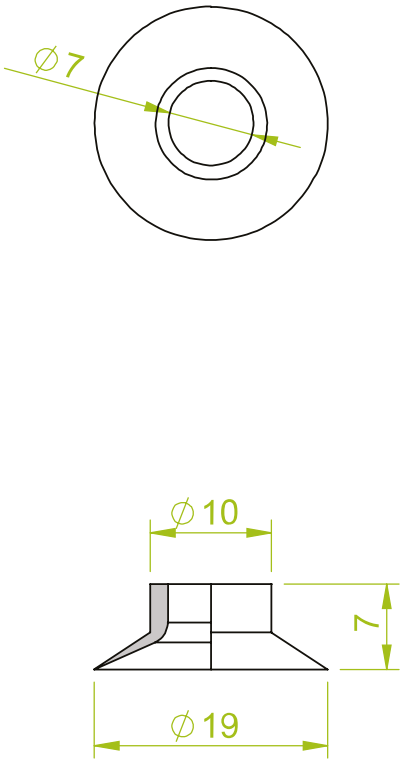


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG

5mm	2g

10.019.272._

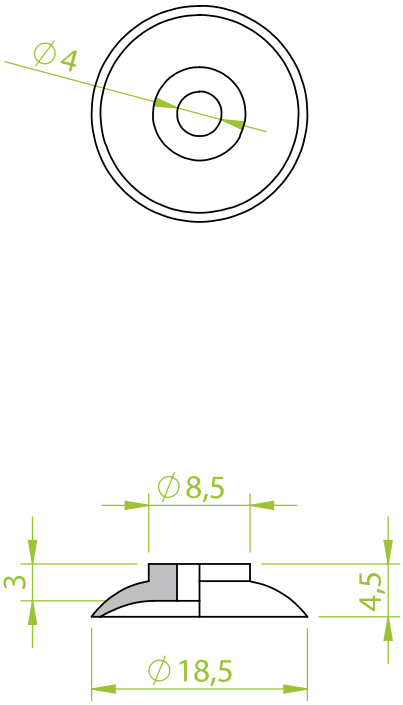


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.250	1/8" AG

1mm	0.2g

10.019.274._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

2.0mm	0.4g

MORALI VACTEC SYSTEMS

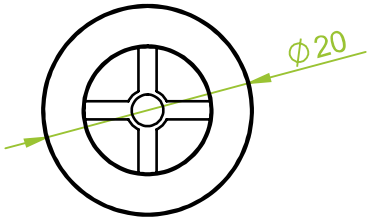
Morali Produktionstechnik GmbH
Handling technology

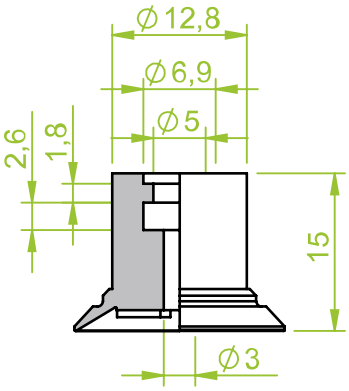
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.020.008._



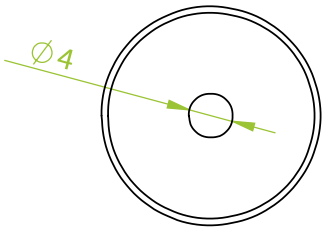


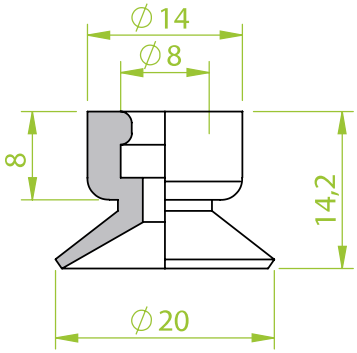
Materialcode
03 NR 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

1mm	2g

10.020.011._



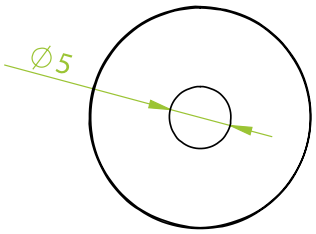


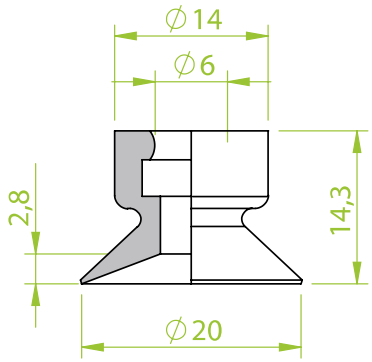
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

3.5mm	2.2g

10.020.015._



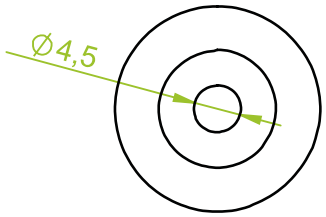


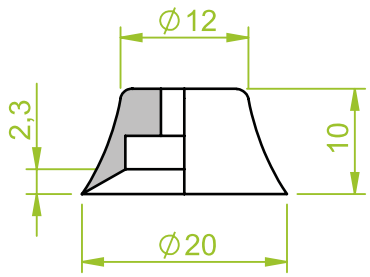
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

3mm	1.6g

10.020.019._





Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG
130.019	1/8" IG
130.030	1/8" AG
130.061	1/8" IG
130.063	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.311	M5 AG

2mm	1.5g

Morali Produktionstechnik GmbH
Handling technology

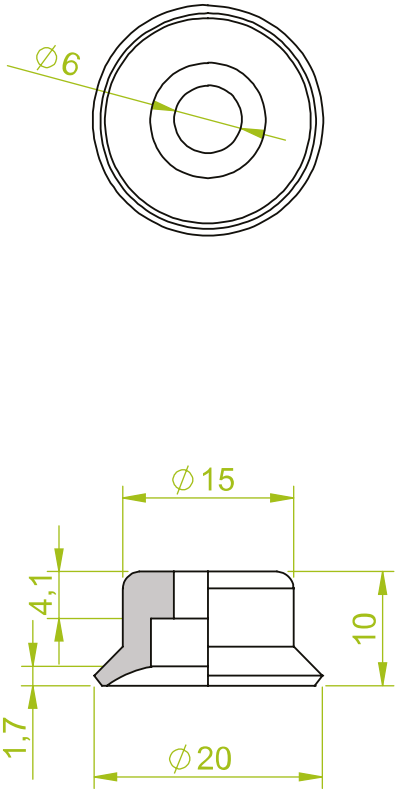
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.020.048._

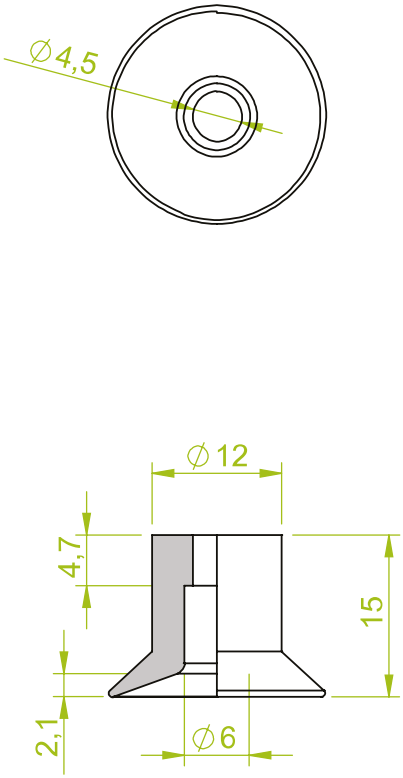


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.311	M5 AG
130.312	M6 AG
270.479	1/8" IG
270.480	1/8" AG

2mm	1.5g

10.020.062._

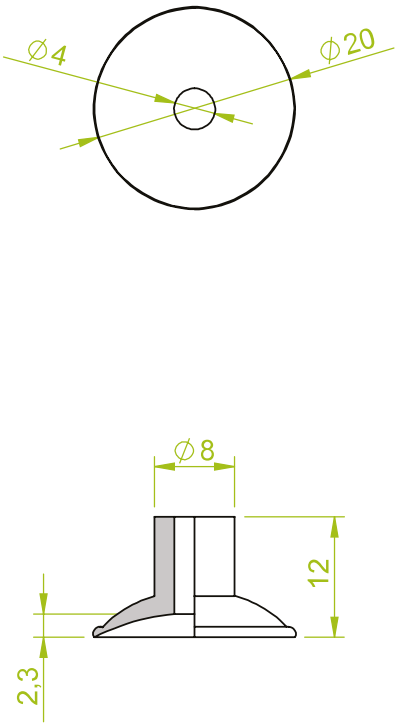


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.205	1/8" AG
130.238	1/8" AG
130.317	M5 AG

1.5mm	1.8g

10.020.074._

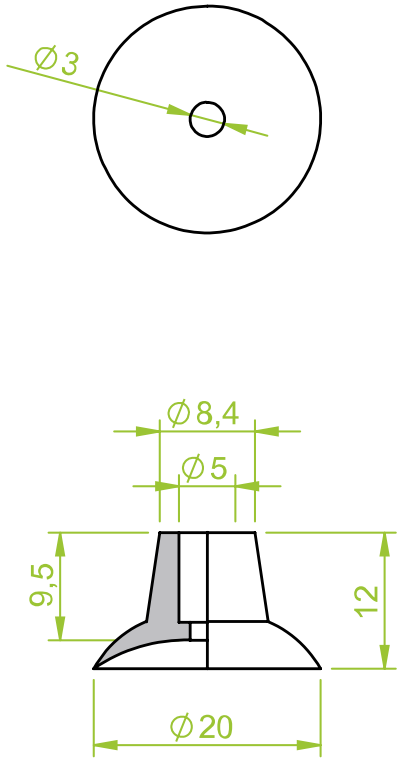


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.374	M5 IG

2.5mm	0.2g

10.020.093._



Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.238	1/8" AG

2.5mm	1g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

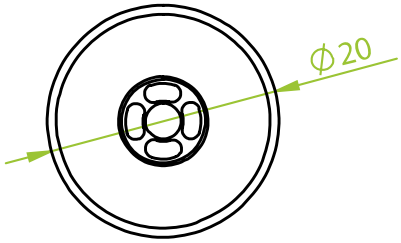
10.020.112._

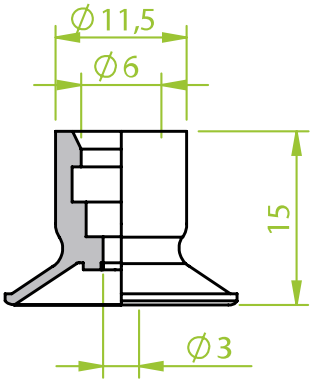
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.035	1/8" IG
130.104	M6 AG
130.134	M5 AG

3mm	1g

10.020.116._



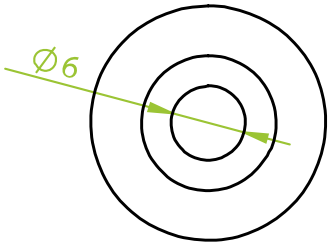


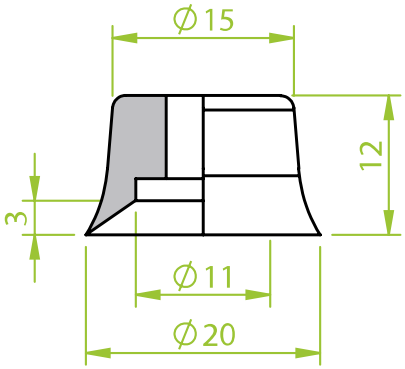
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.251	1/8" IG

3mm	2g

10.020.140._



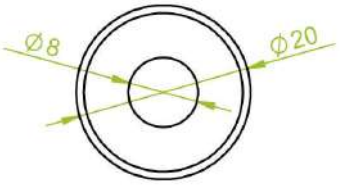


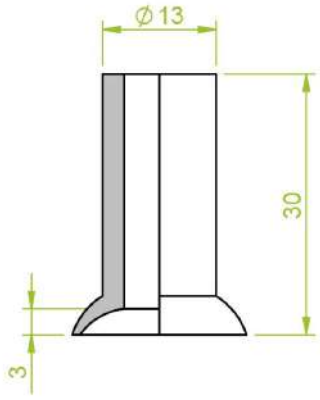
Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG

3mm	2g

10.020.175._





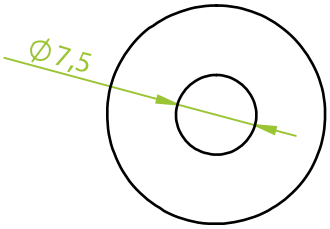
Materialcode
03 NR

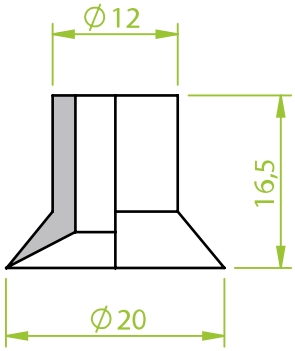
Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.114	1/8" IG
130.132	1/8" AG
130.178	1/4" IG

4mm	3g

Flachsauger I *Flat cups*

10.020.176._



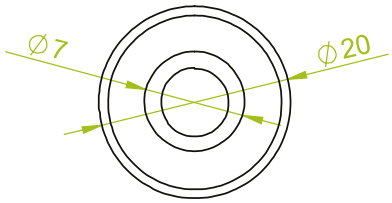


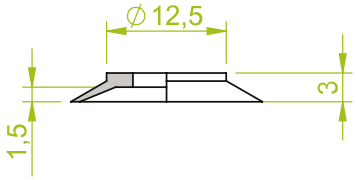
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.178	1/4" IG

3mm	1.2g

10.020.212._



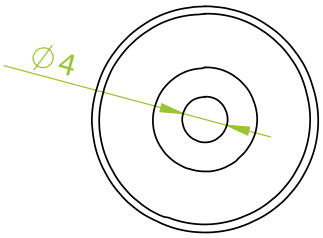


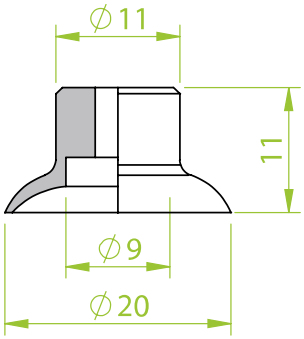
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.040	M8 AG
130.077	1/8" AG
130.105	M6 AG

1mm	0.1g

10.020.278._



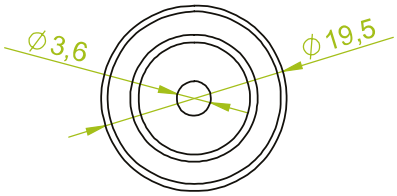


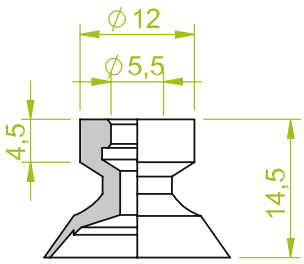
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.317	M5 AG

2.5mm	1g

10.020.280._



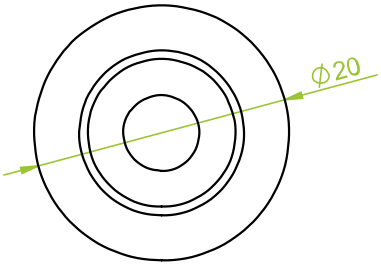


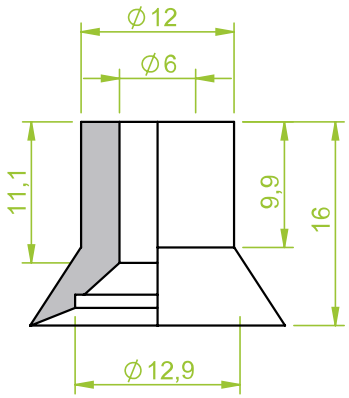
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

mm	0g

10.020.282._



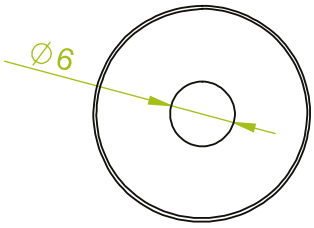


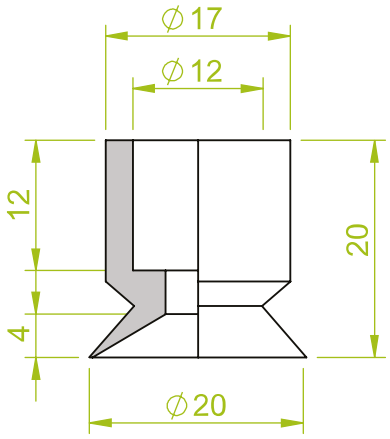
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.041	1/8" IG
130.131	1/8" AG
130.194	1/4" AG

1.5mm	1.4g

10.020.284._



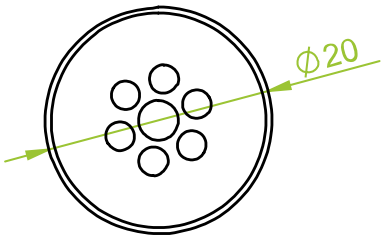


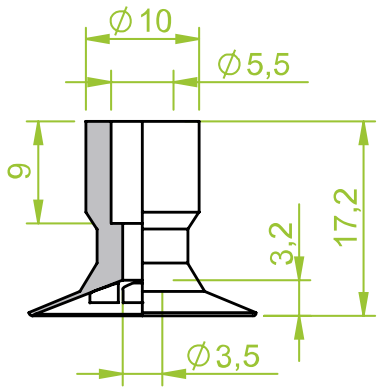
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.181	1/8" AG

3mm	2g

10.020.285._



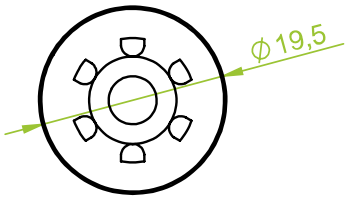


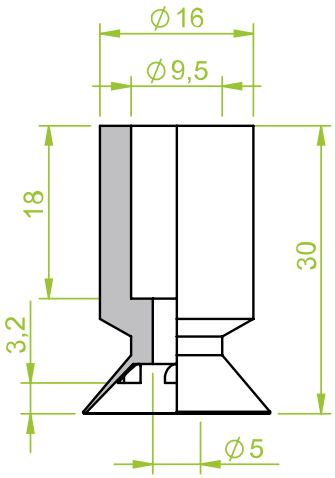
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.103	M6 AG
130.109	1/8" IG

0.5mm	1.2g

10.020.286._





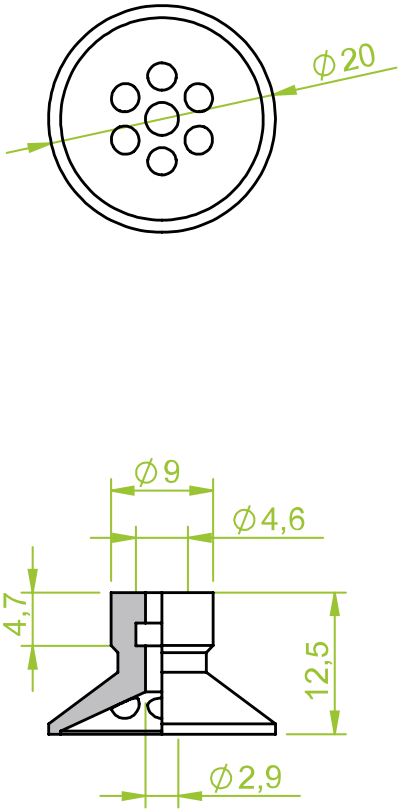
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG

2.5mm	3.8g

Flachsauger I *Flat cups*

10.020.290._

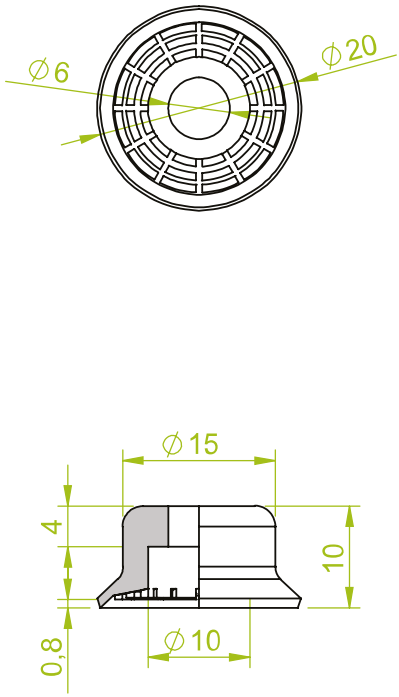


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.104	M6 AG
130.134	M5 AG
130.347	M5 IG

2.0mm	1.2g

10.020.291._

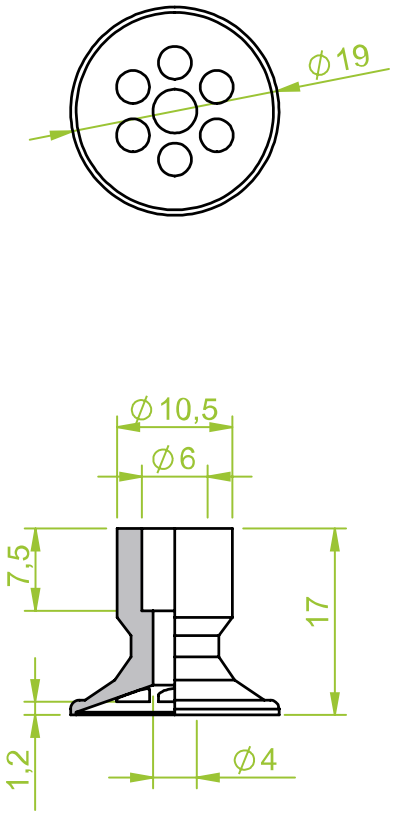


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.311	M5 AG
130.312	M6 AG
130.479	1/8" IG
130.480	1/8" AG

1.1mm	1.5g

10.020.293._

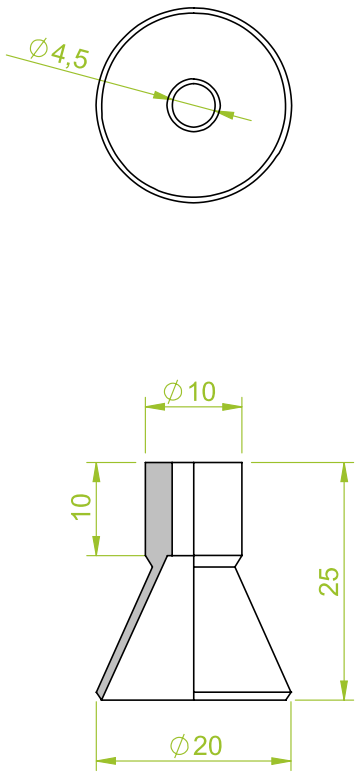


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.110	1/8" IG
130.194	1/4" AG
130.238	1/8" AG
270.534	1/4" AG

0.5mm	1.4g

10.020.297._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.104	M6 AG
130.134	M5 AG

0mm	1g

MORALI VACTEC SYSTEMS

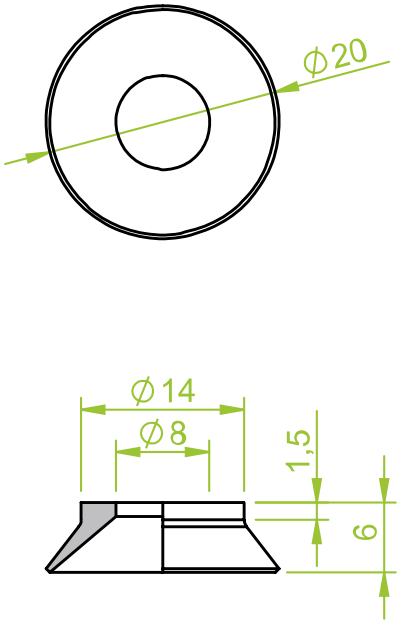
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.020.405._

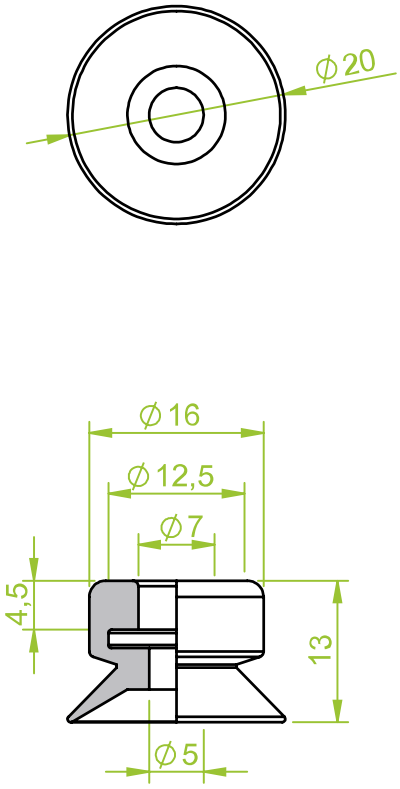


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

1mm	0.5g

10.020.586._

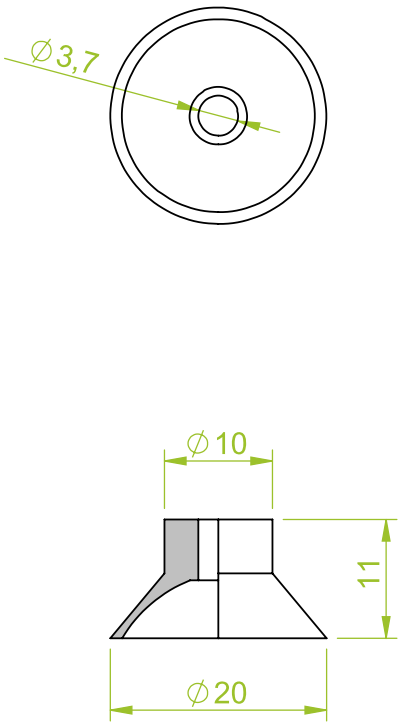


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604 130.605 130.606	M5 AG 1/8" AG 1/4" AG

3.5mm	2g

10.020.597._

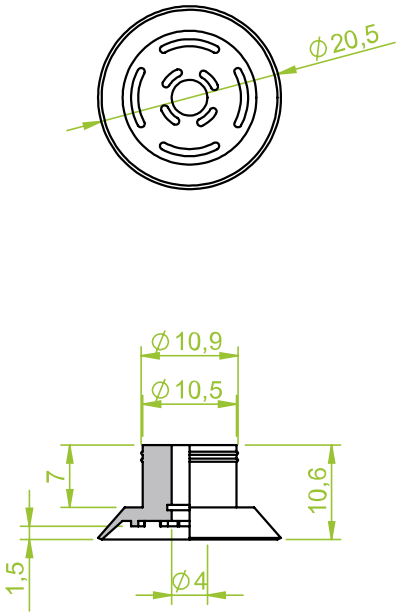


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.015	1/8" IG

2.5mm	1.0g

10.020.613._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.013 130.087	M5 IG M5 AG 1/8" AG

2mm	0.7g

Morali Produktionstechnik GmbH
Handling technology

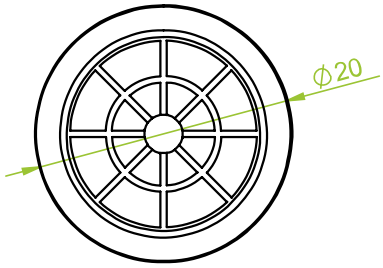
Stadtweg 30
D-78658 Zimmern o.R.

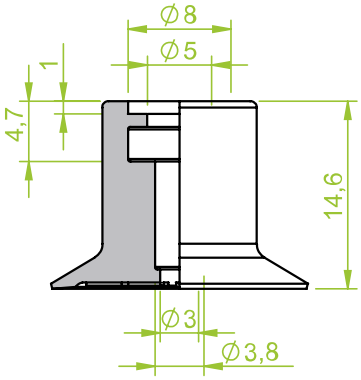
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.020.626._



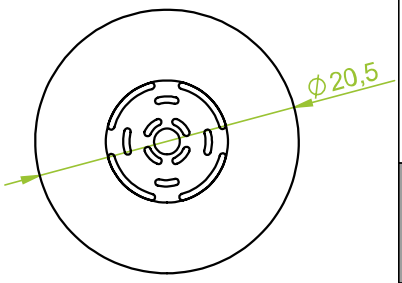


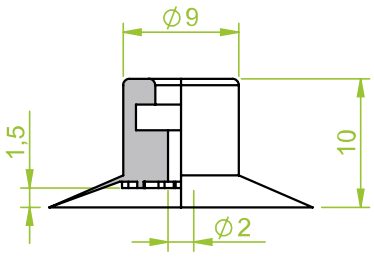
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.037 130.085 130.086	M5 AG 1/8" AG 1/8" IG

0.25mm	1.6g

10.020.647._



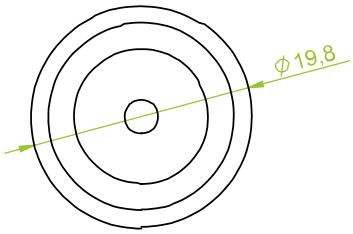


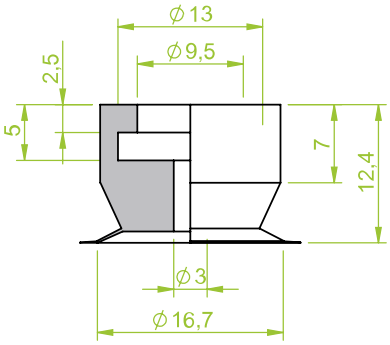
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG

0.6mm	0.7g

10.020.675._





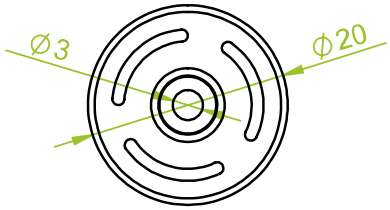
Materialcode
02 Silikon

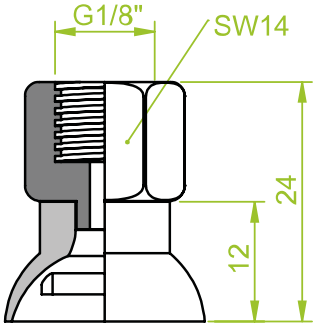
Halter *Fitting*	Gewinde *Thread*

1.4mm	1.9g

13.020.074._

vulkanisiert





Materialcode
03 NR 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

3.5mm	3.9g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

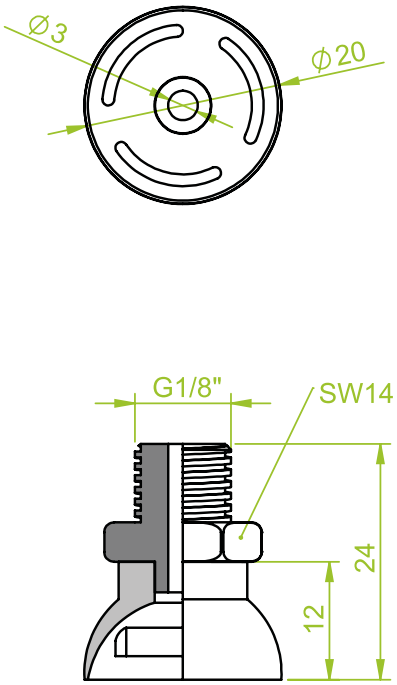
Stadtweg 30
D-78658 Zimmern o.R.

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

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

14.020.052._

vulkanisiert



Materialcode
03 NR 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	3.8g

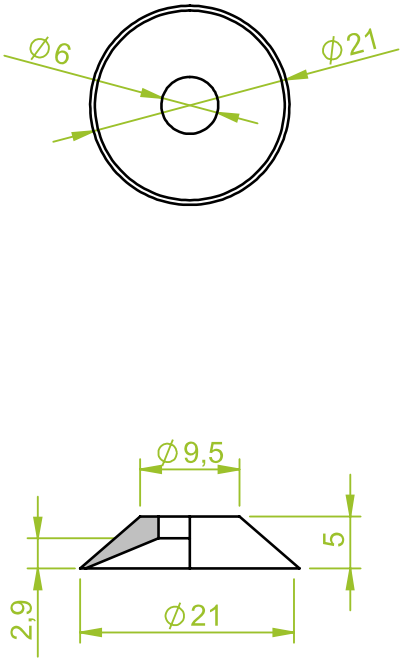
10.020.0316._

Materialcode
07 FKM

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG
130.373	M5 AG

3.5mm	2.2g

10.021.299._

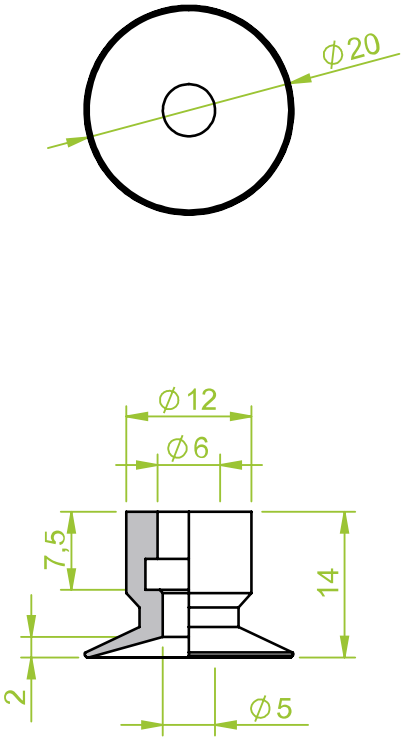


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

1.5mm	0.4g

10.021.300._



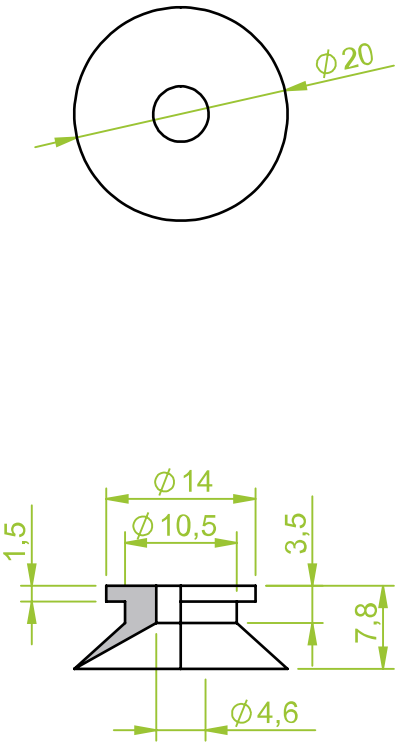
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.061	1/8" IG
130.063	1/8" AG
130.109	1/8" IG
130.238	1/8" AG

0.5mm	1.4g

Flachsauger I *Flat cups*

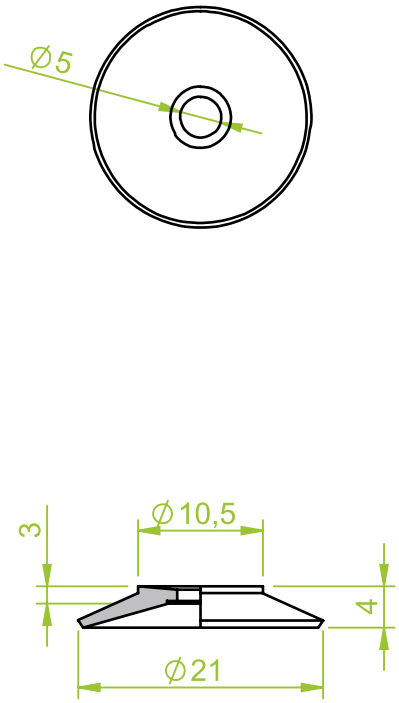
10.021.301._



Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
2.0mm	0.6g

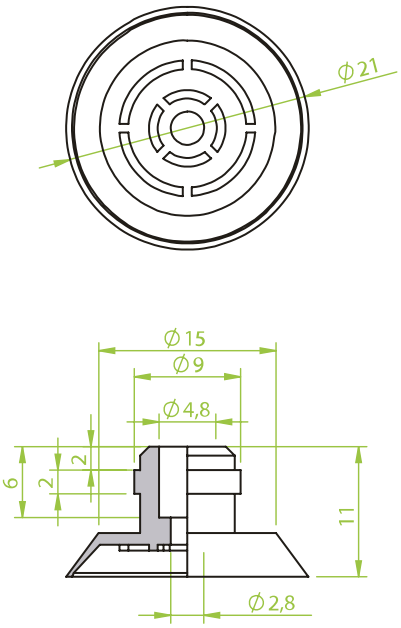
10.021.302._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	1g

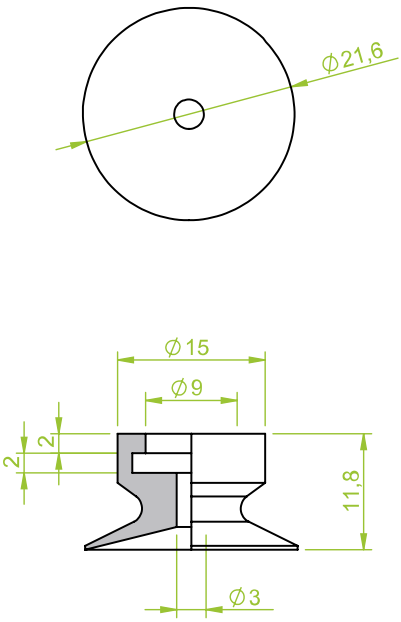
10.021.601._



Materialcode
09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
2.2mm	0.7g

10.021.622._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	1.5g

MORALI VACTEC SYSTEMS

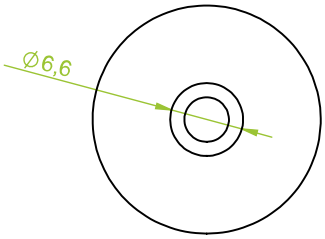
Morali Produktionstechnik GmbH
Handling technology

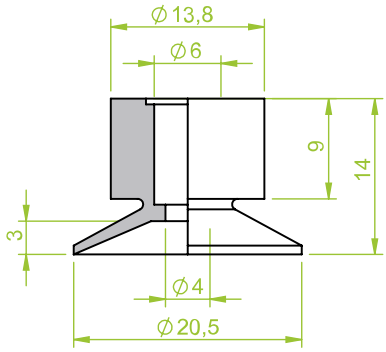
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.021.644._



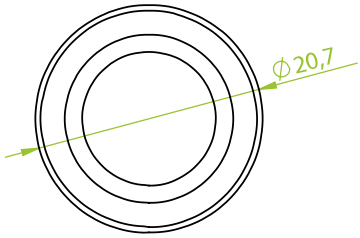


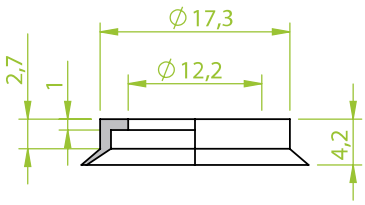
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.238	1/8" AG

2mm	1.8g

10.021.671._



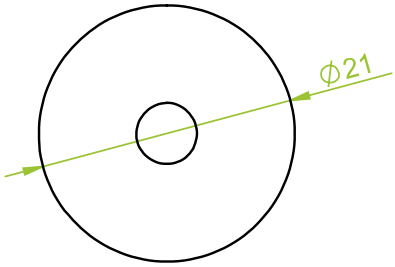


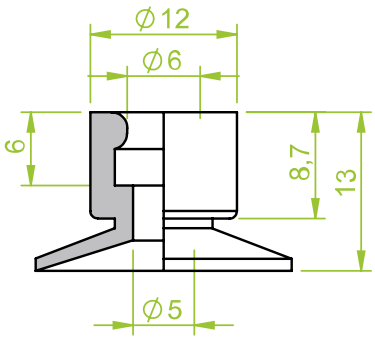
Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

0.5mm	0.4g

10.021.690._



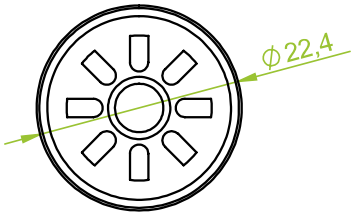


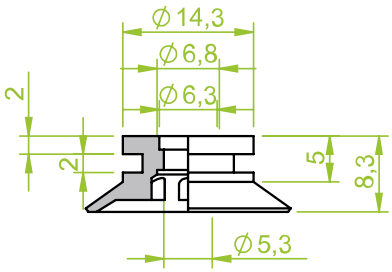
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.037	M5 AG
130.085	1/8" AG
130.086	1/8" IG

2mm	1.3g

10.022.005._





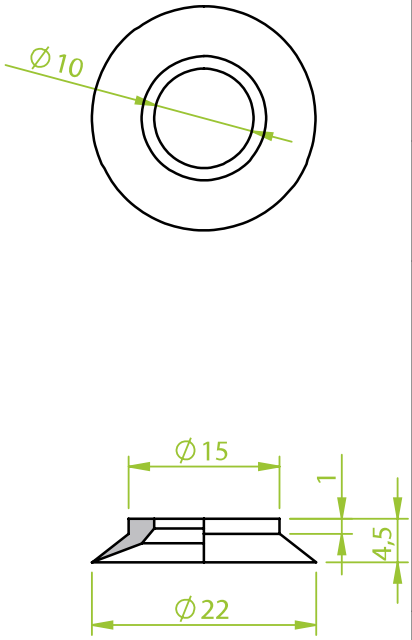
Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.135	1/8" AG
130.250	1/8" AG
130.291	1/8" AG

0.5mm	1g

Flachsauger I *Flat cups*

10.022.016._

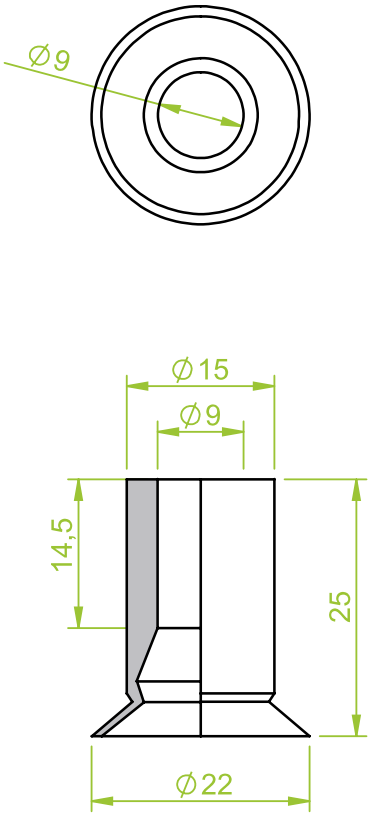


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	0.4g

10.022.056._

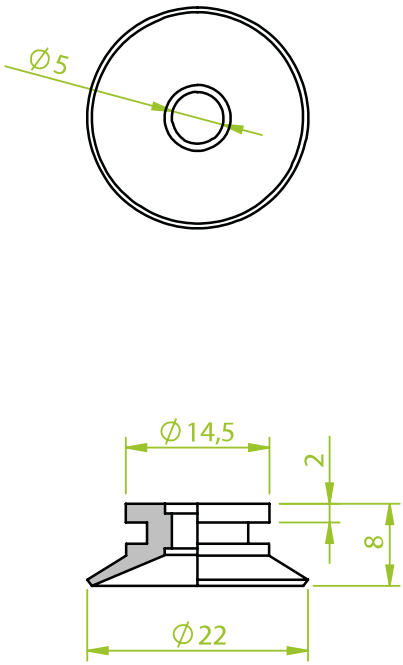


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.112 130.113 130.114 130.178 130.208	1/8" AG 1/4" AG 1/8" IG 1/4" IG 1/4" AG

5mm	2.6g

10.022.120._

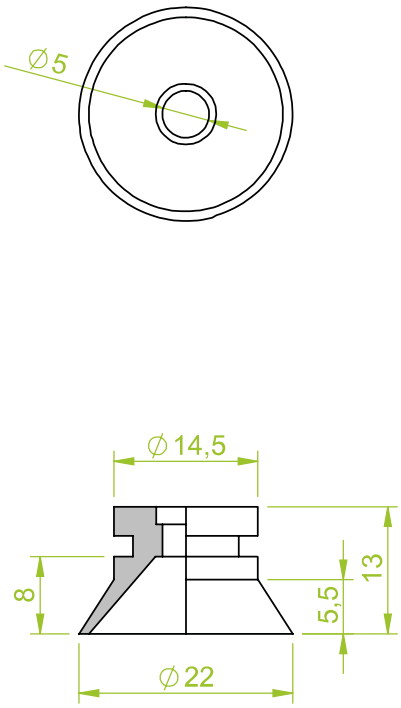


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.135 130.250 130.291 130.507	1/8" AG 1/8" AG 1/8" AG 1/8" AG

2.5mm	1g

10.022.126._

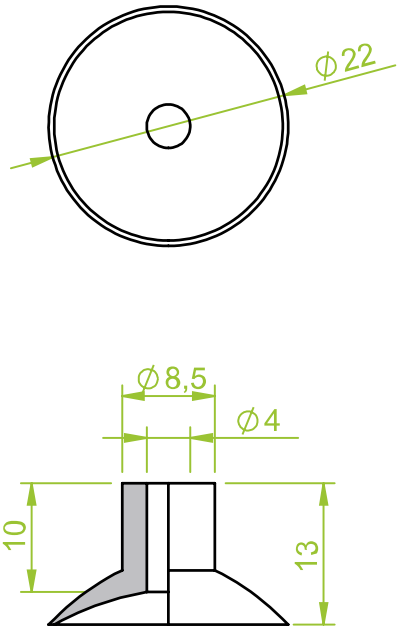


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.135 130.250 130.291 130.507	1/8" AG 1/8" AG 1/8" AG 1/8" AG

2.5mm	1.2g

10.022.203._

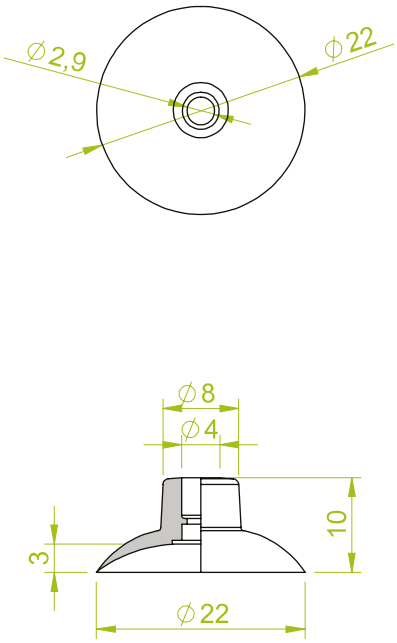


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.035	1/8" IG
130.104	M6 AG
130.134	M5 AG
130.242	1/8" AG
130.627	1/4" AG

3mm	1.6g

10.022.304._

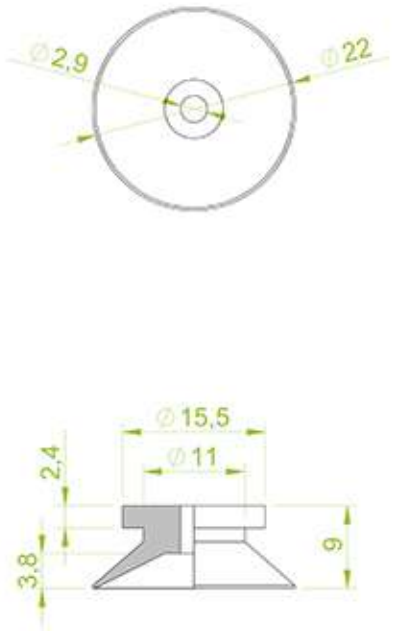


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.188	1/8" AG

3.0mm	0.6g

10.022.307._

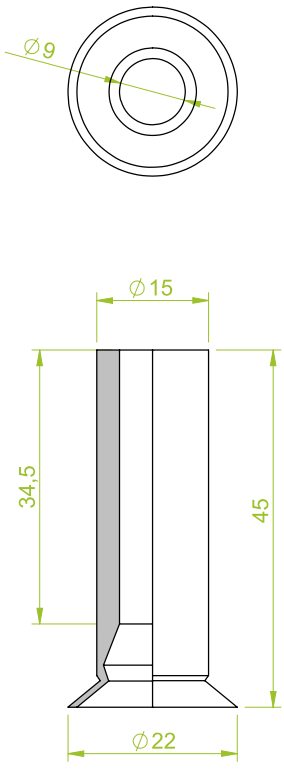


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

2.5mm	1.2g

10.022.308._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.208	1/4" AG

6mm	5.2g

Morali Produktionstechnik GmbH
Handling technology

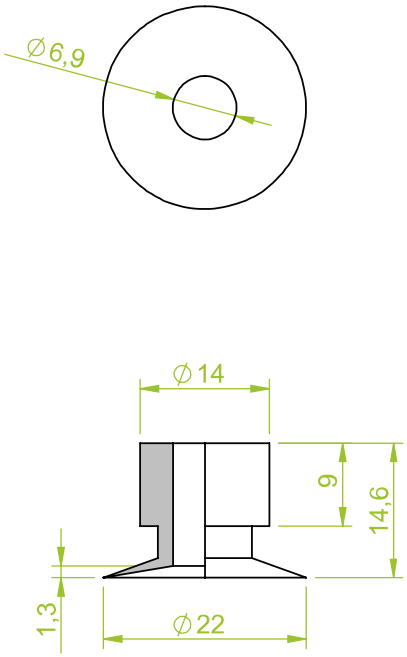
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.022.623._

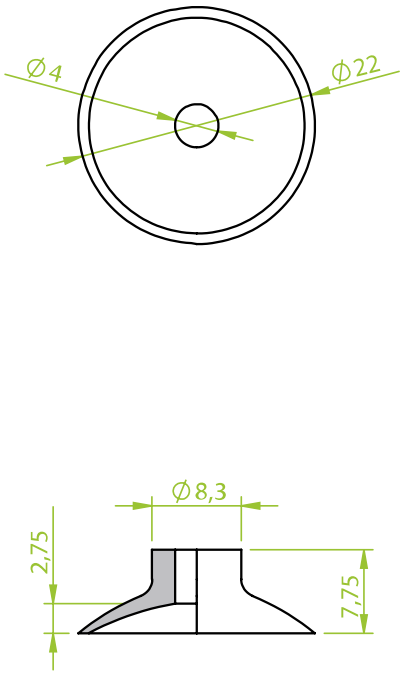


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.238	1/8" AG

3mm	1.6g

10.022.663._

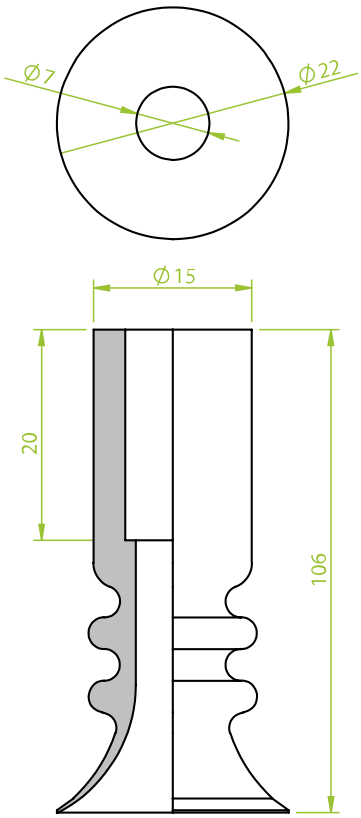


Materialcode

Halter *Fitting*	Gewinde *Thread*

3.0mm	0.9g

10.022.684._



Materialcode

Halter *Fitting*	Gewinde *Thread*
130.132 130.208	1/8" AG 1/4" AG

3mm	0.4g

11.022.001._

Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	3.5g

MORALI VACTEC SYSTEMS

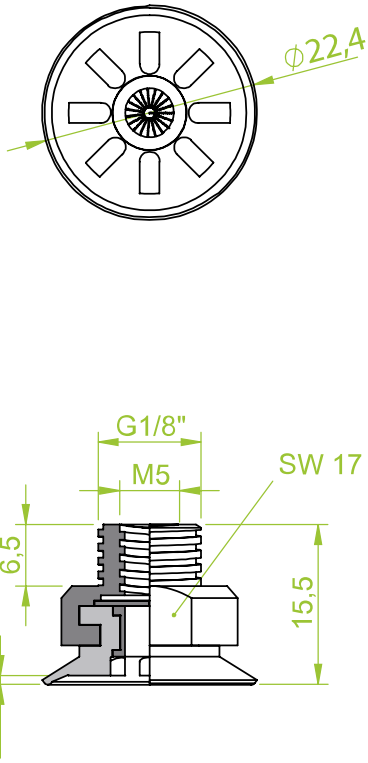
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

11.022.004._

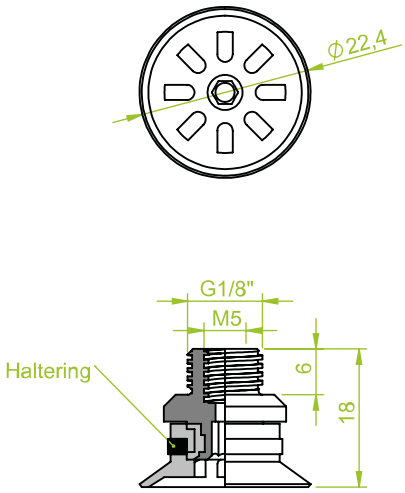


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.5mm	4.5g

11.022.015._

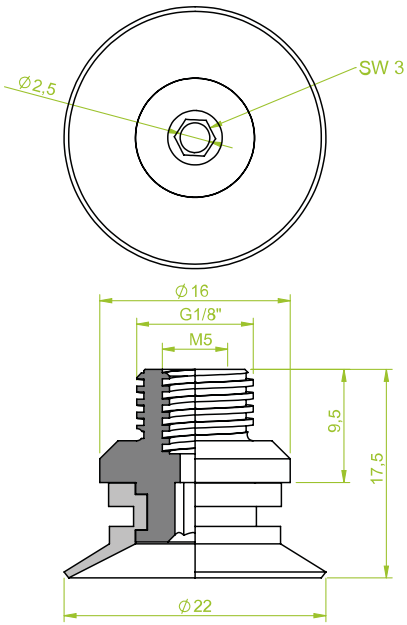


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.5mm	3.7g

11.022.020._

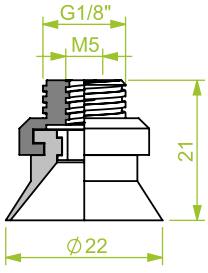


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	4.5g

11.022.025._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	4.2g

Morali Produktionstechnik GmbH
Handling technology

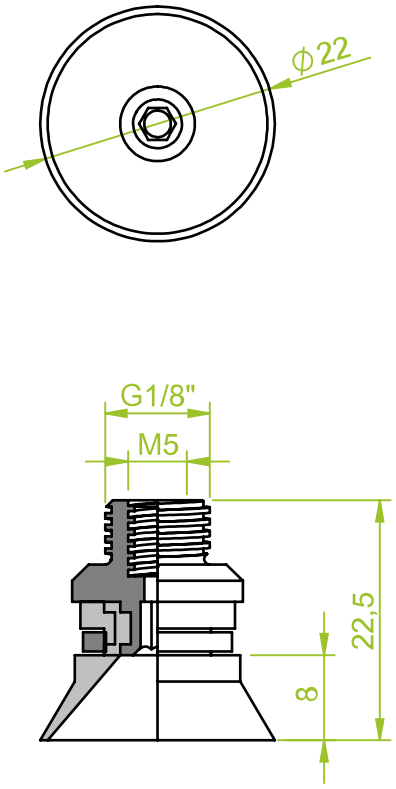
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

11.022.028._

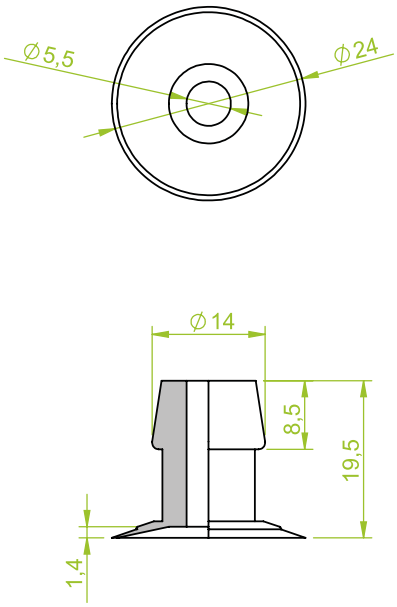


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	4.5g

10.023.315._

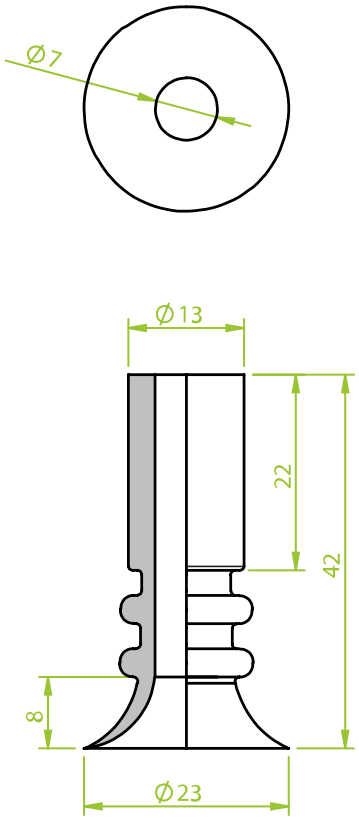


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.110	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

0.5mm	2.0g

10.023.612._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.132	1/8" AG
130.208	1/4" AG

4mm	4.1g

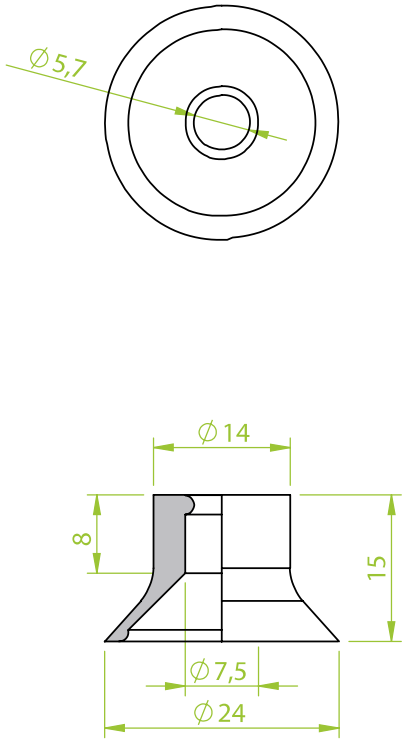
10.023.709._

Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

mm	0g

10.024.351._

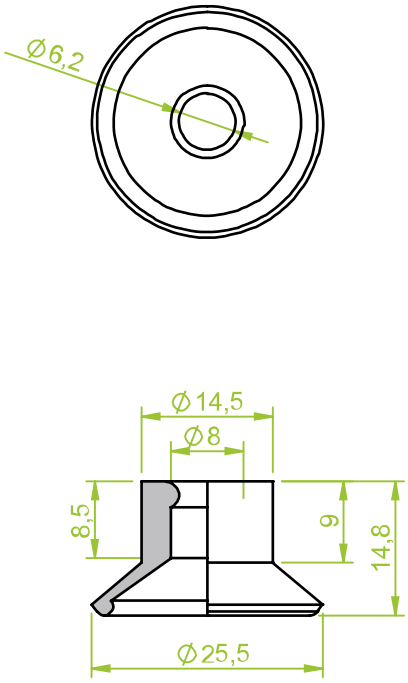


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.021	1/8" AG

4.0mm	1.5g

10.025.010._

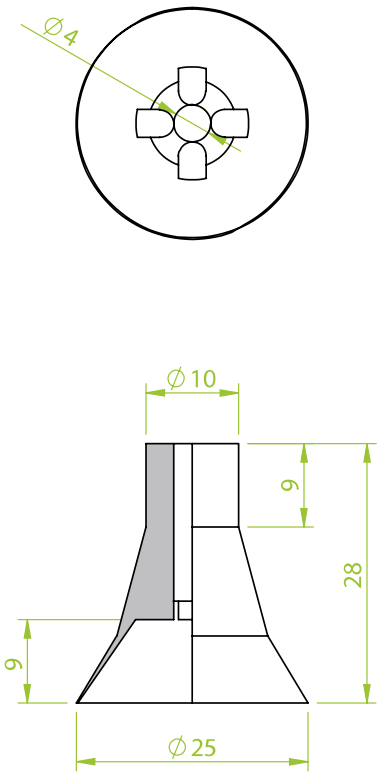


Materialcode
06 EPDM 03 NR

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG
130.018	1/8" IG
130.019	1/8" IG
130.030	1/8" AG

4.0mm	1.8g

10.025.028._

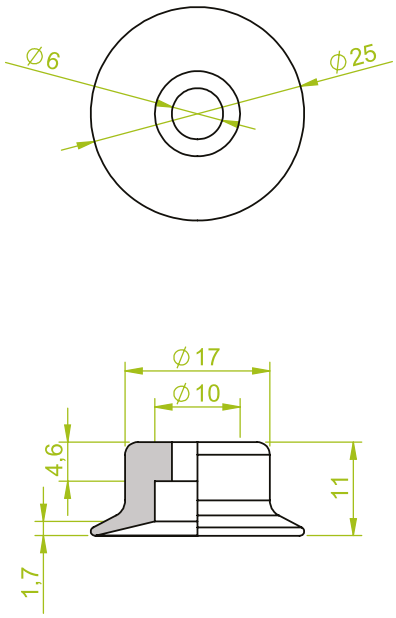


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	2.1g

10.025.049._



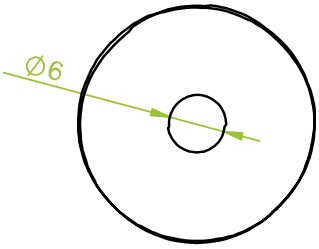
Materialcode
02 Silikon

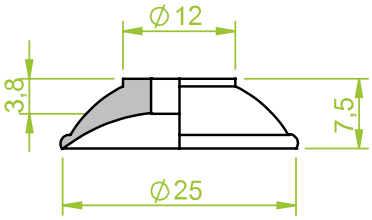
Halter *Fitting*	Gewinde *Thread*
130.302	1/8" AG
130.311	M5 AG
130.479	1/8" IG

2.5mm	2.5g

Flachsauger I *Flat cups*

10.025.076._



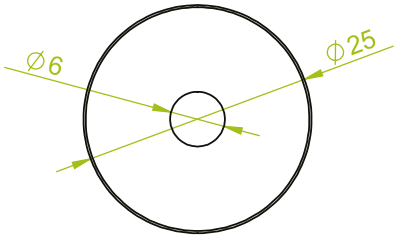


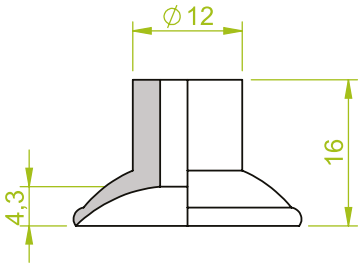
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG

2.5mm	1g

10.025.077._



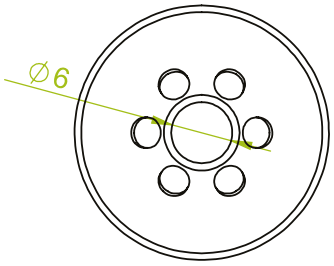


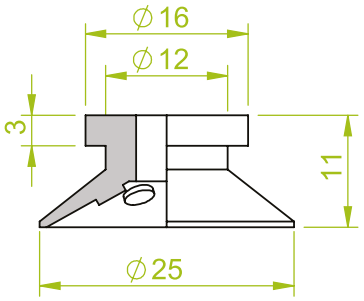
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.110	1/8" IG
130.194	1/4" AG
130.238	1/8" AG
270.443	M5 AG
270.534	1/4" AG

4mm	2.2g

10.025.087._



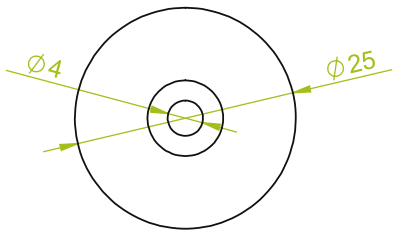


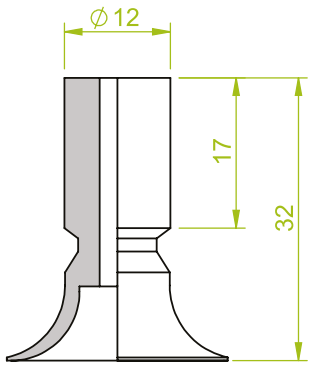
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.096	1/8" IG
130.110	1/8" IG
130.200	M5 AG
130.238	1/8" AG
130.250	1/8" AG
270.534	1/4" AG

3.5mm	1.2g

10.025.115._



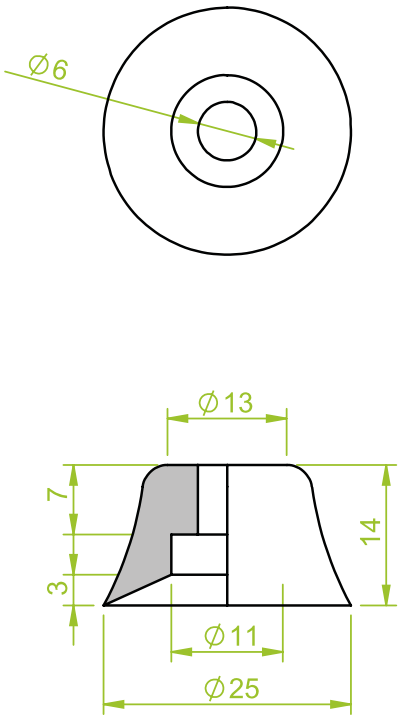


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.035	1/8" IG
130.104	M6 AG
130.134	M5 AG
130.347	M5 IG
270.478	1/8" IG

mm	2.4g

10.025.141._



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG

2.5mm	2.7g

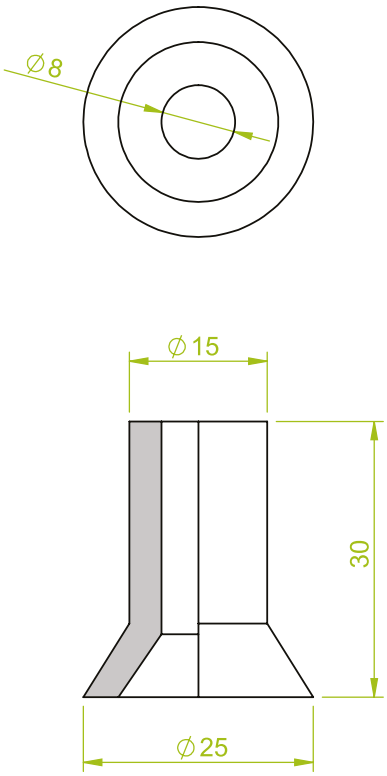
10.025.157._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG

3mm	1.2g

10.025.177._

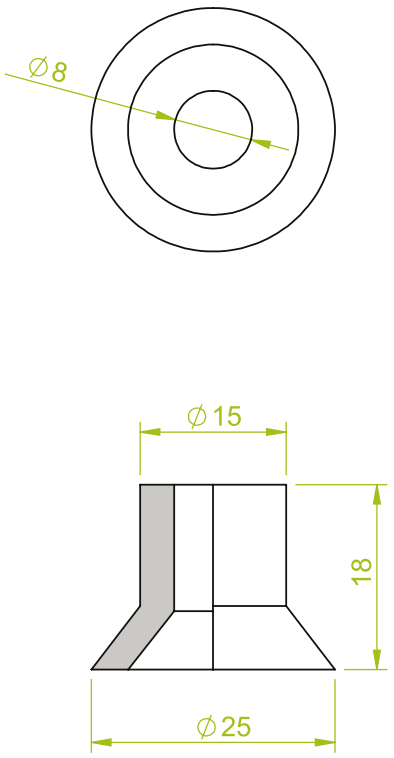


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.114	1/8" IG
130.190	1/4" AG
130.192	1/4" IG

2.0mm	4.0g

10.025.178._



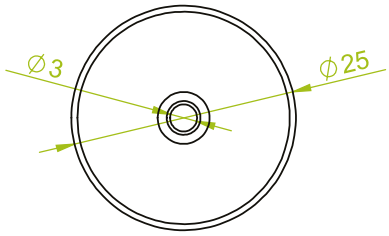
Materialcode
03 NR

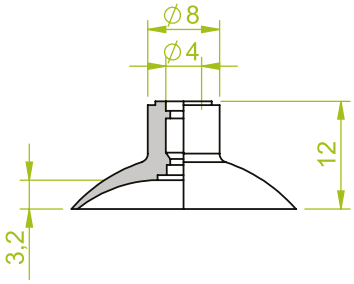
Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.190	1/4" AG
130.192	1/4" IG

1.0mm	3.6g

Flachsauger I *Flat cups*

10.025.320._



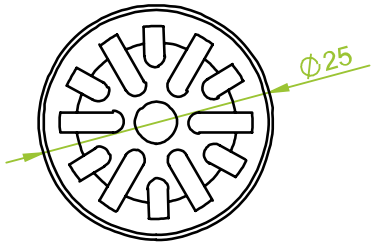


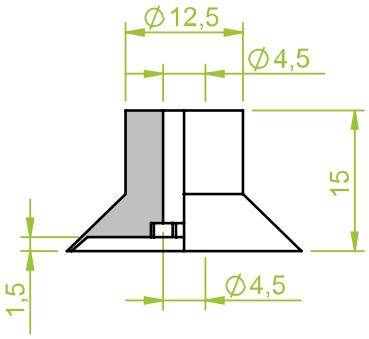
Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

4.0mm	1.0g

10.025.328._



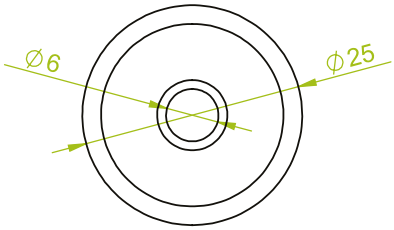


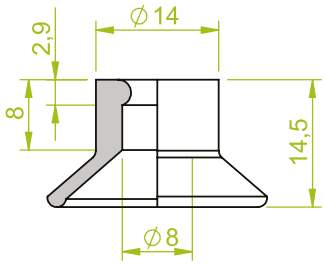
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

1.5mm	2.0g

10.025.330._



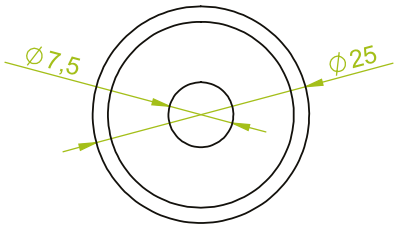


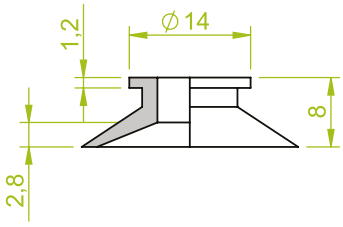
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG
130.018	1/8" IG
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG

5mm	1.4g

10.025.335._





Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

1.5mm	1.2g

MORALI VACTEC SYSTEMS

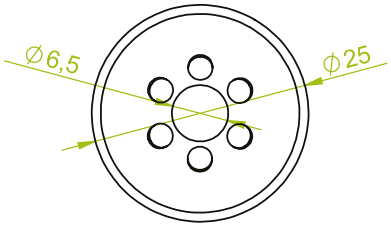
Morali Produktionstechnik GmbH
Handling technology

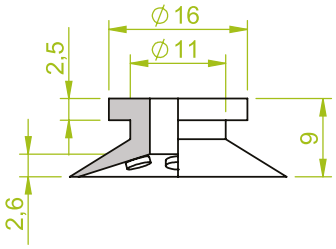
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.025.338._



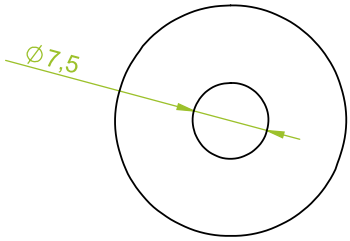


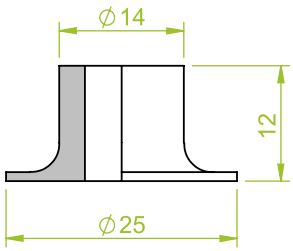
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.250	1/8" AG

1.0mm	1.2g

10.025.339._



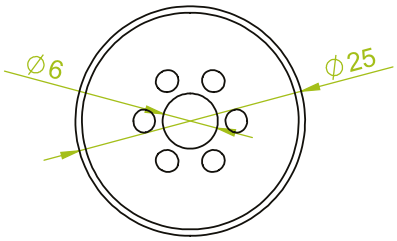


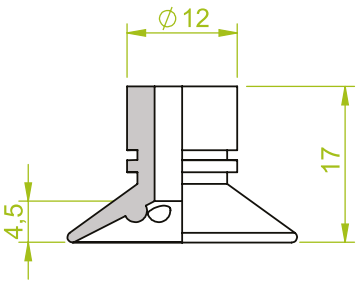
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.059	1/8" AG

0.0mm	1.6g

10.025.340._



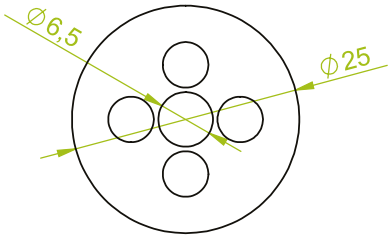


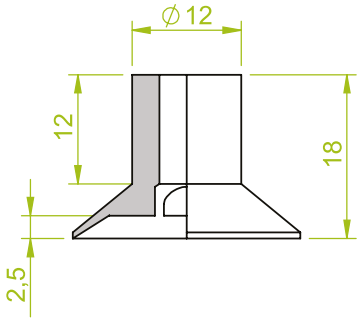
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.109	1/8" IG
130.194	1/4" AG
130.238	1/8" AG
270.534	1/4" AG

2.5mm	2.0g

10.025.346._





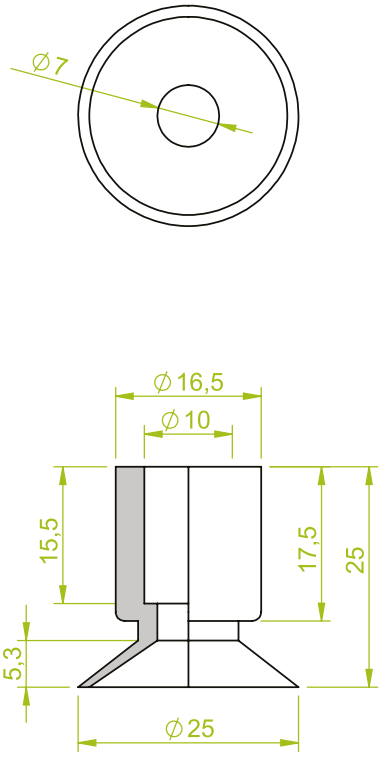
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.110	1/8" IG
130.112	1/8" AG
130.114	1/8" IG
130.178	1/4" IG
130.238	1/8" AG
270.534	1/4" AG

3.5mm	1.8g

Flachsauger I *Flat cups*

10.025.347._

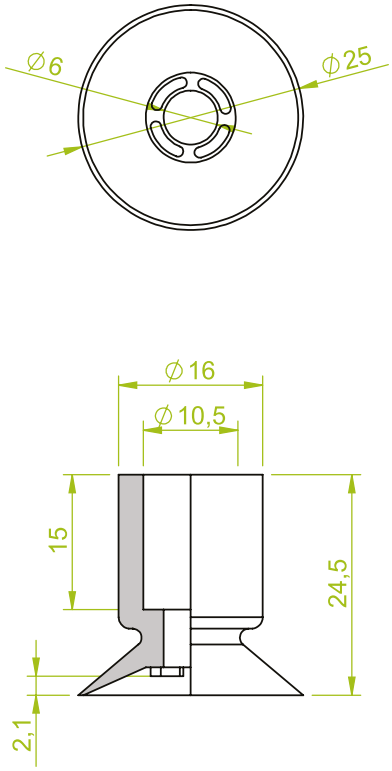


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG

4.0mm	3.0g

10.025.348._

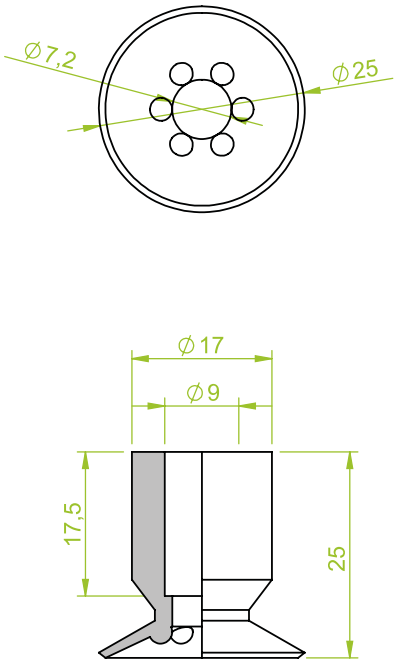


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG

2.0mm	3.2g

10.025.349._

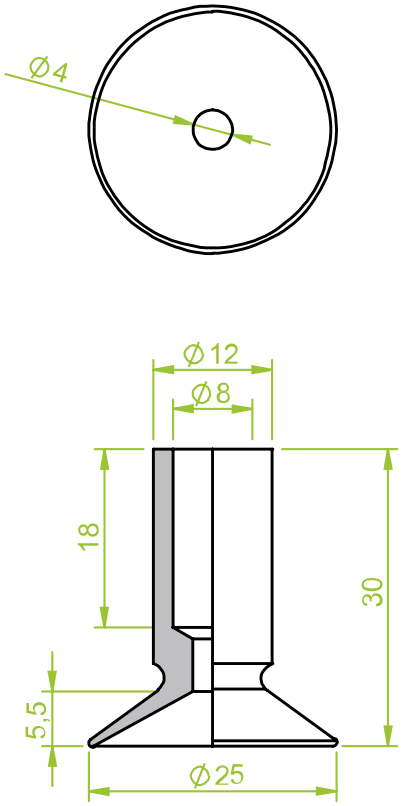


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG
130.244	M5 AG

2.5mm	3.2g

10.025.350._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.114	1/8" IG
130.132	1/8" AG
130.178	1/4" IG

5mm	2.4g

MORALI VACTEC SYSTEMS

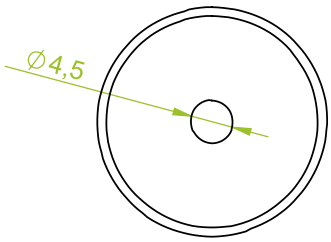
Morali Produktionstechnik GmbH
Handling technology

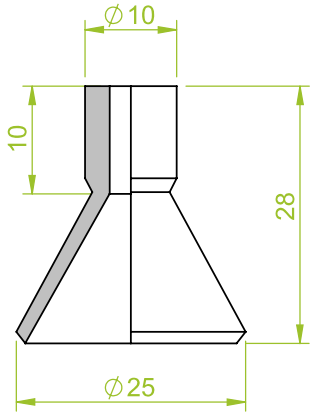
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.025.361._



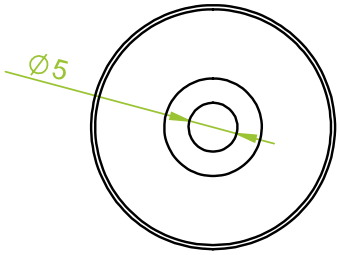


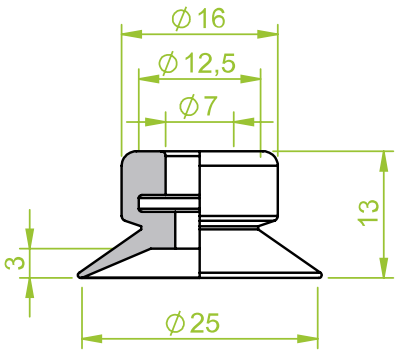
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.109	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

0mm	1.6g

10.025.587._



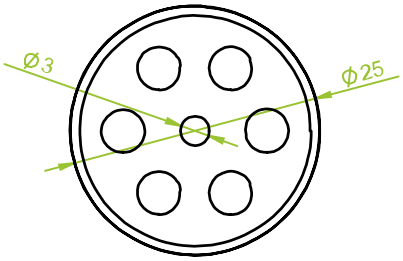


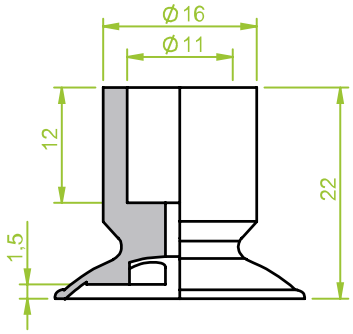
Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

3mm	2.2g

10.025.596._



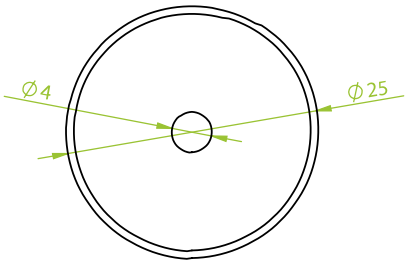


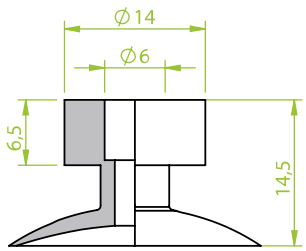
Materialcode
03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.191	1/4" AG
130.609	1/4" AG

3mm	3g

10.025.650._





Materialcode

Halter *Fitting*	Gewinde *Thread*

2.0mm	1.5g

Morali Produktionstechnik GmbH
Handling technology

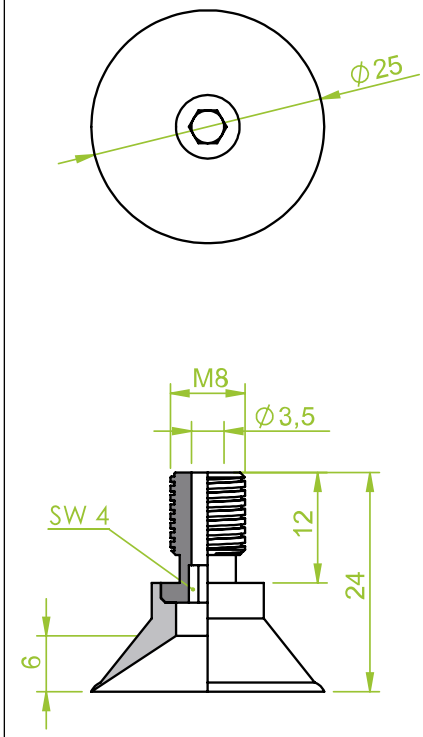
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

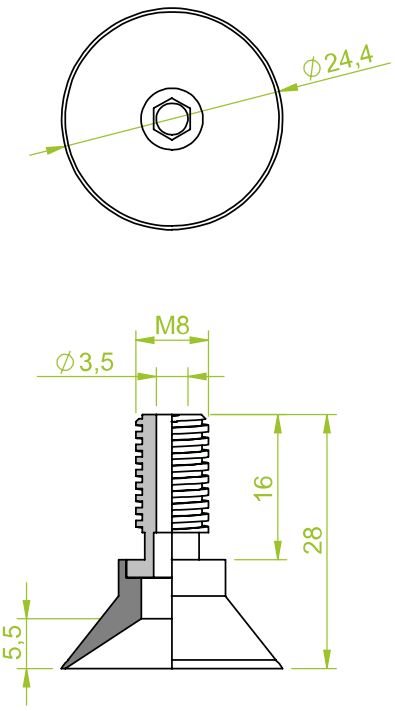
14.025.037._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
5.0mm	5.0g

14.025.040._ vulkanisiert



Materialcode
02 Silikon

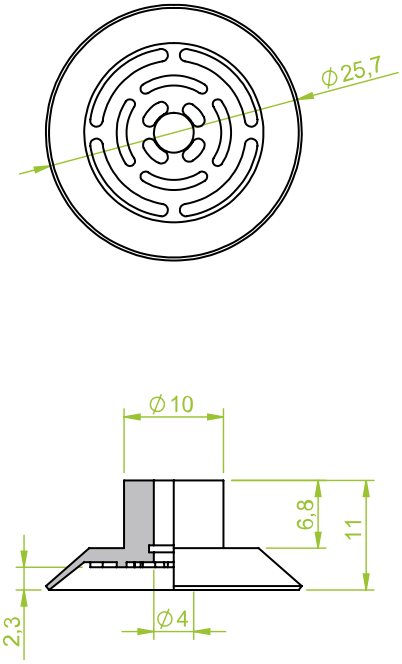
Halter *Fitting*	Gewinde *Thread*
6mm	5.6g

10.025.0332._

Materialcode
VU VU

Halter *Fitting*	Gewinde *Thread*
130.191	1/4" AG
3.0mm	3.0g

10.026.032._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.033	1/8" AG
130.087	1/8" AG
1mm	1g

MORALI VACTEC SYSTEMS

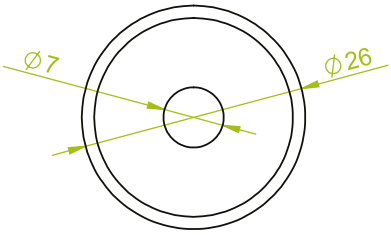
Morali Produktionstechnik GmbH
Handling technology

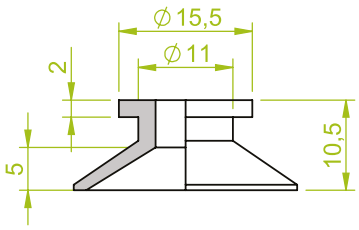
Stadtweg 30
D-78658 Zimmern o.R.

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

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

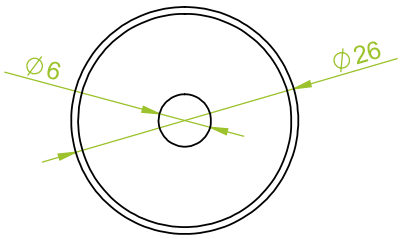
10.026.363._

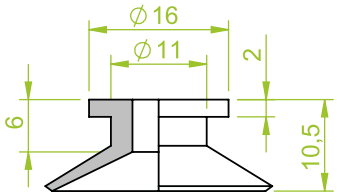




Materialcode	
03 NR	
Halter *Fitting*	**Gewinde** *Thread*
mm	0g

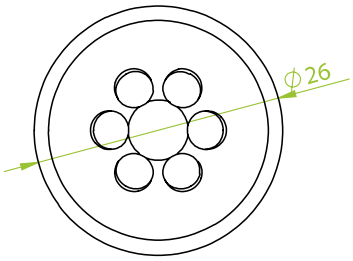
10.026.364._

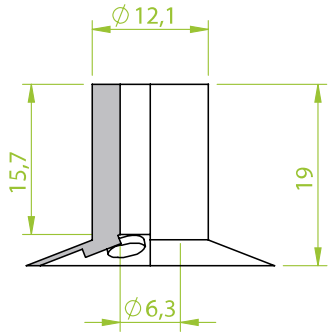




Materialcode	
V Vinyl	
Halter *Fitting*	**Gewinde** *Thread*
4mm	1.4g

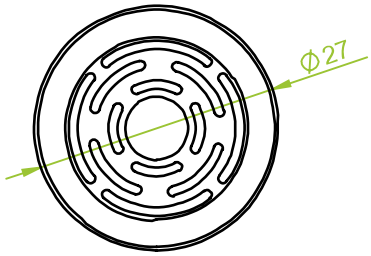
10.026.366._

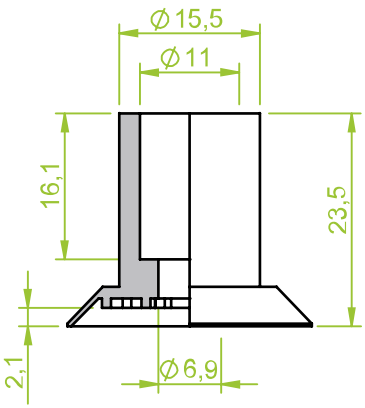




Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.110 130.238 270.534	1/8" IG 1/8" AG 1/4" AG
2mm	3g

10.027.104._

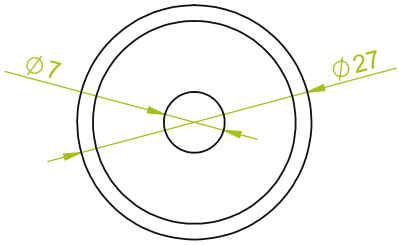


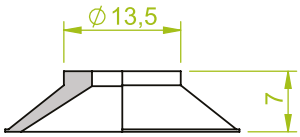


Materialcode	
03 NR	
Halter *Fitting*	**Gewinde** *Thread*
130.177 130.451 130.452 130.609	M10 AG 1/4" AG 1/4" IG 1/4" AG
2mm	2.8g

Flachsauger I *Flat cups*

10.027.213._



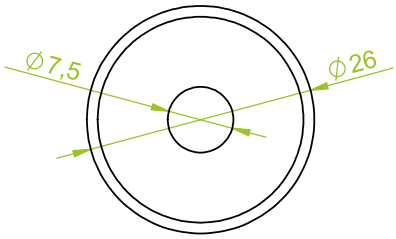


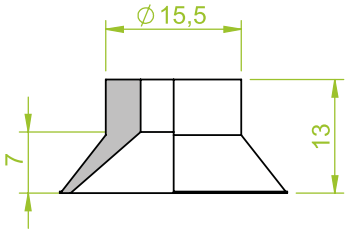
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG
130.040	M8 AG
130.077	1/8" AG
130.105	M6 AG

4mm	1.3g

10.027.367._



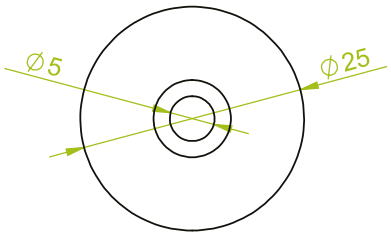


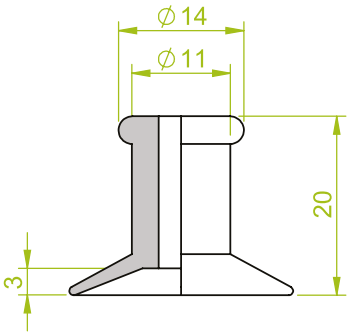
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.038	1/4" IG
130.043	1/4" AG

5mm	2.0g

10.027.368._



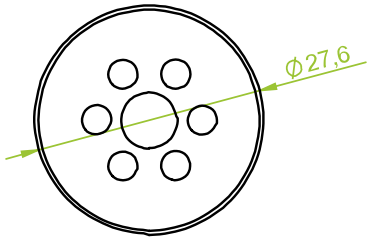


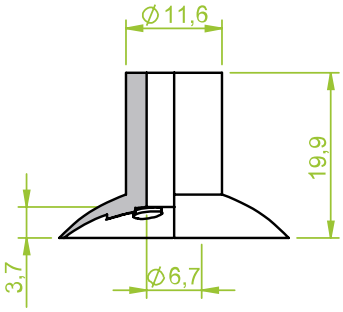
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

4.0mm	2.0g

10.027.370._



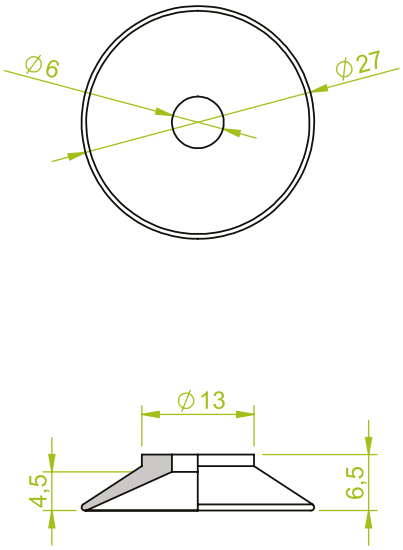


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.178	1/4" IG

2mm	2.4g

10.027.371._

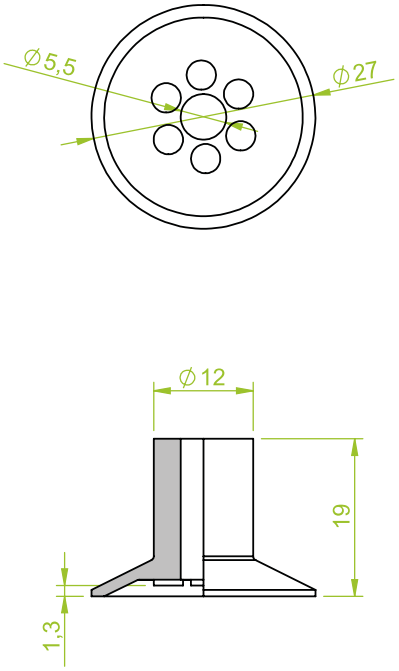


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.040	M8 AG
130.077	1/8" AG
130.105	M6 AG

3mm	1.1g

10.027.373._

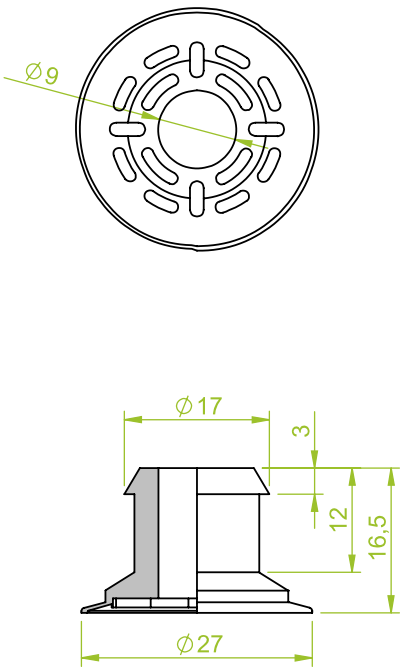


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.110	1/8" IG
130.238	1/8" AG
270.443	M5 AG
270.534	1/4" AG

2.5mm	2.8g

10.027.374._

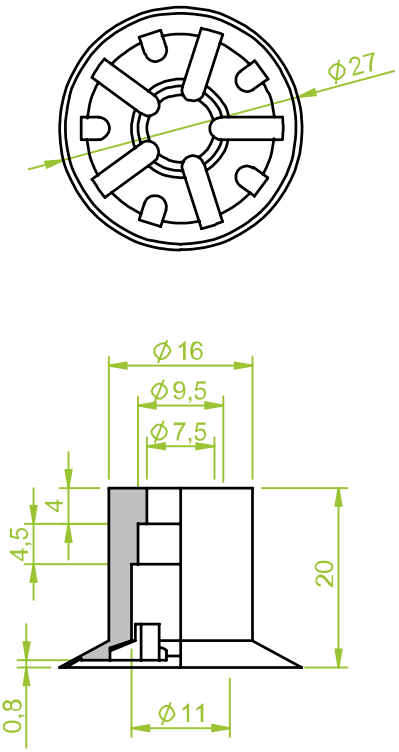


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.114	1/8" IG
130.238	1/8" AG
130.451	1/4" AG
130.452	1/4" IG

0.5mm	2g

10.027.646._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.8mm	2.9g

Morali Produktionstechnik GmbH
Handling technology

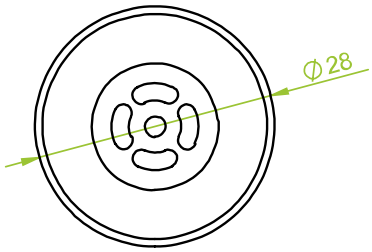
Stadtweg 30
D-78658 Zimmern o.R.

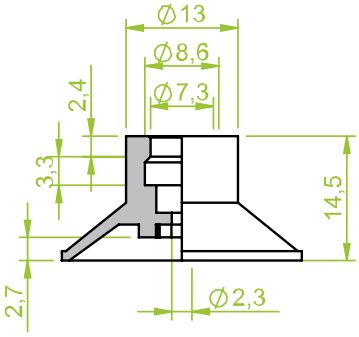
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

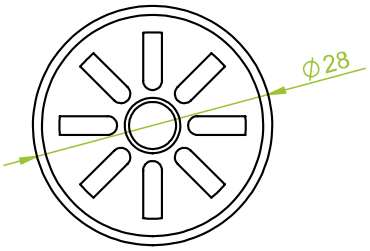
10.028.054._

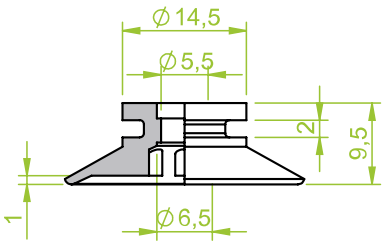




Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
130.251	1/8" IG
3mm	2.1g

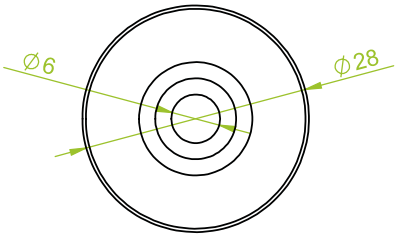
10.028.098._

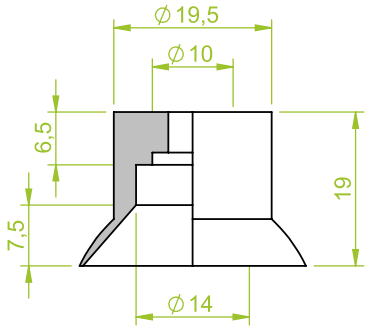




Materialcode	
04 CR 05 Polyurethan 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.094 130.096 130.135 130.250 130.291	M5 AG 1/8" IG 1/8" AG 1/8" AG 1/8" AG
1mm	1.6g

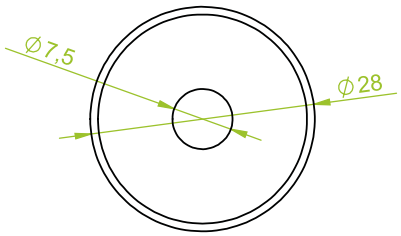
10.028.376._

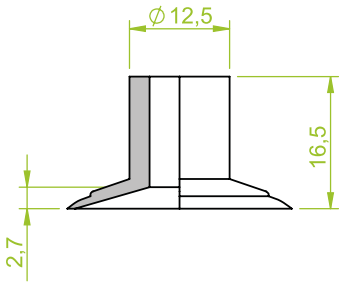




Materialcode	
V Vinyl	
Halter *Fitting*	**Gewinde** *Thread*
130.479 270.459 270.480	1/8" IG M6 AG 1/8" AG
4mm	4.8g

10.028.379._





Materialcode	
V Vinyl	
Halter *Fitting*	**Gewinde** *Thread*
130.019 130.030 130.112 130.113 130.114 130.178	1/8" IG 1/8" AG 1/8" AG 1/4" AG 1/8" IG 1/4" IG
2mm	2.0g

MORALI VACTEC SYSTEMS

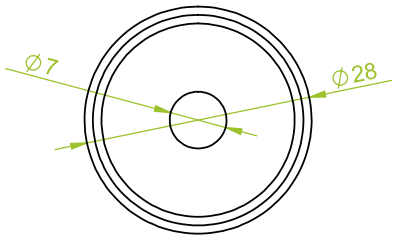
Morali Produktionstechnik GmbH
Handling technology

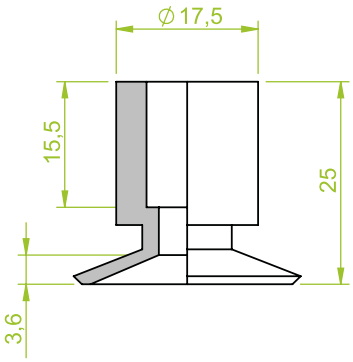
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.028.380._



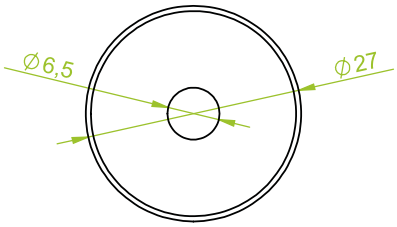


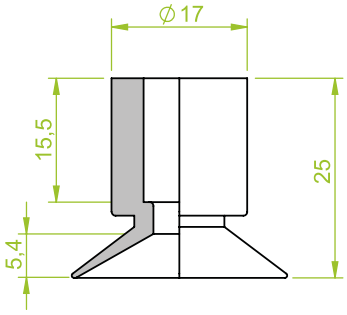
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG
130.244	M5 AG
130.451	1/4" AG
130.452	1/4" IG

4mm	4.2g

10.028.381._



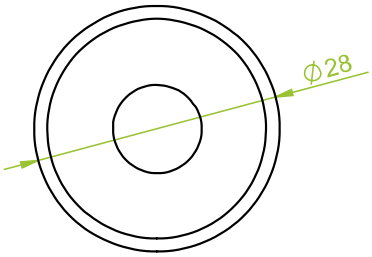


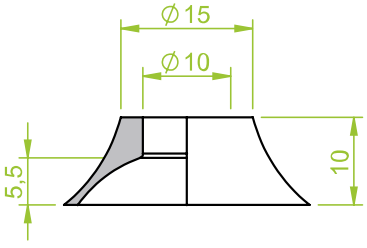
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG
130.244	M5 AG
130.451	1/4" AG
130.452	1/4" IG

5mm	4.4g

10.028.551._



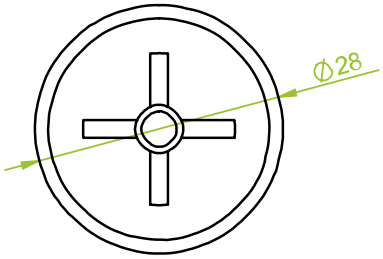


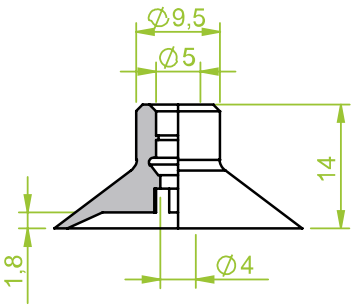
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	1.3g

10.028.616._





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

3mm	1.9g

Morali Produktionstechnik GmbH
Handling technology

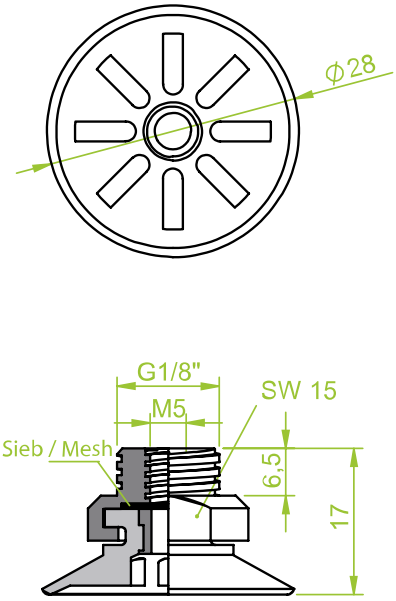
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

11.028.005._

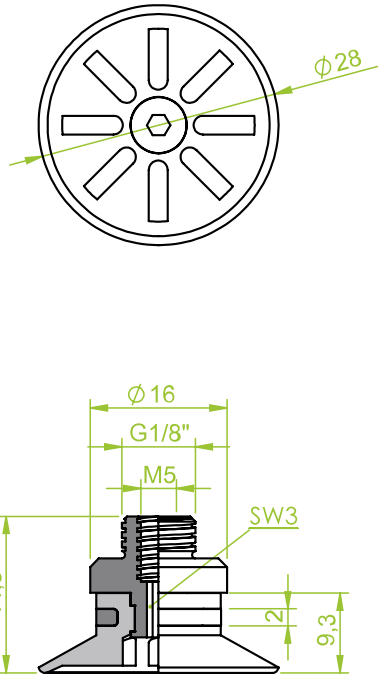


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	4.5g

11.028.016._

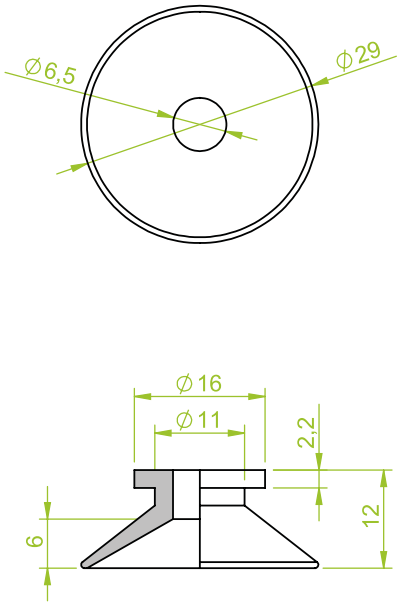


Materialcode
04 CR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.5mm	3.7g

10.029.384._

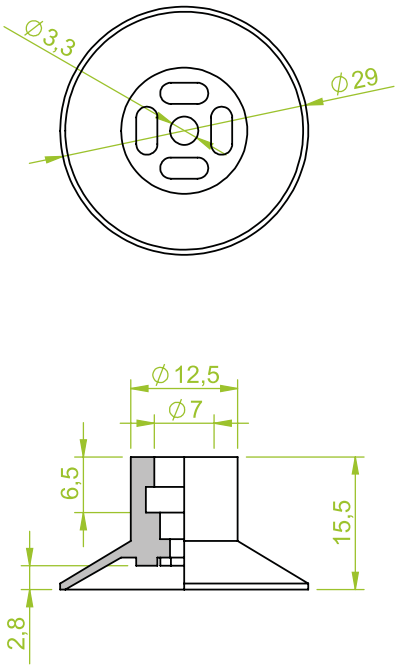


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.110 130.200 130.238 270.534	1/8" IG M5 AG 1/8" AG 1/4" AG

4.5mm	2.2g

10.029.385._

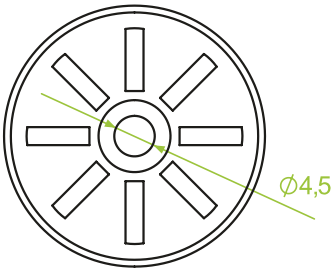


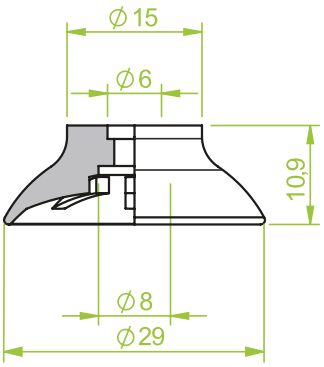
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.019 130.030	1/8" IG 1/8" AG

4mm	2g

10.029.582._



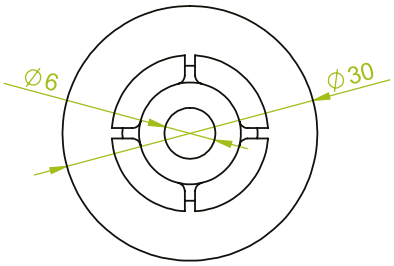


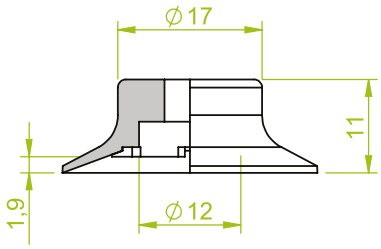
Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.063	1/8" AG
130.094	M5 AG
130.291	1/8" AG
130.504	1/4" AG
130.519	1/8" IG
130.520	1/8" AG
130.599	M5 AG

3.5mm	2.4g

10.030.050._



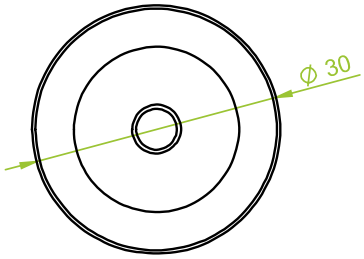


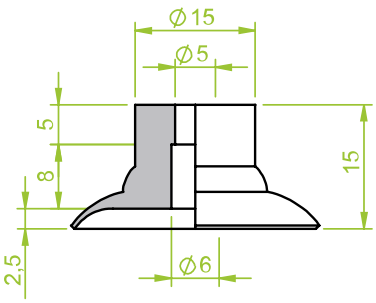
Materialcode
07 FKM
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG
130.039	M6 AG
130.247	M8 AG
130.611	1/8" AG
270.481	1/8" IG
270.483	1/4" AG
270.484	1/4" IG

2.5mm	2.5g

10.030.063._



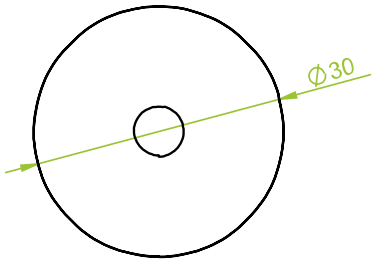


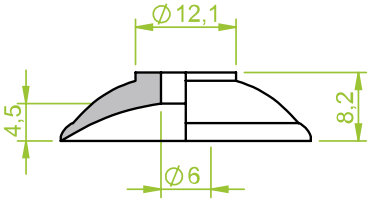
Materialcode
07 FKM
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.205	1/8" AG
130.317	M5 AG

2.5mm	3.8g

10.030.078._





Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.628	M8 AG

4mm	1.9g

Morali Produktionstechnik GmbH
Handling technology

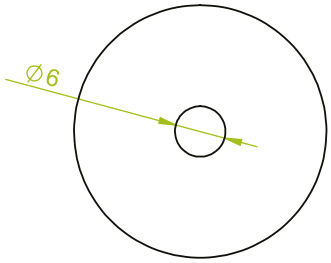
Stadtweg 30
D-78658 Zimmern o.R.

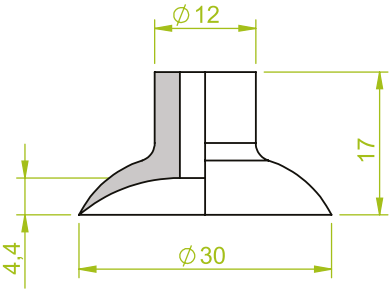
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.030.079._



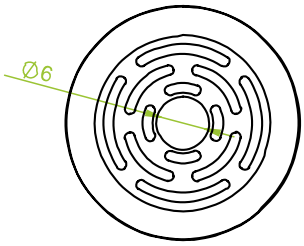


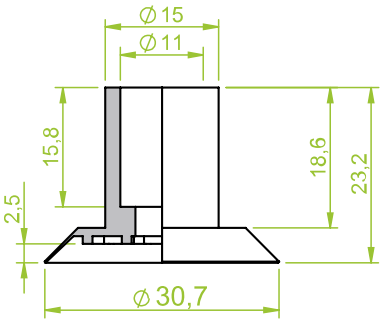
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.238	1/8" AG
270.534	1/4" AG

3.5mm	2.8g

10.030.102._





Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.451	1/4" AG
130.452	1/4" IG
130.609	1/4" AG

3mm	3g

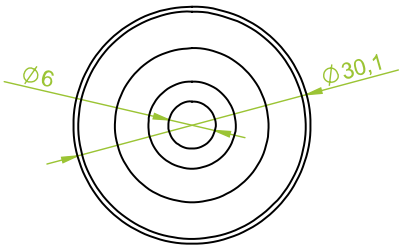
10.030.103._

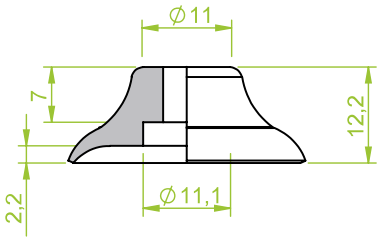
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.451	1/4" AG
130.452	1/4" IG
130.609	1/4" AG

3mm	3g

10.030.142._





Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG

2mm	3.3g

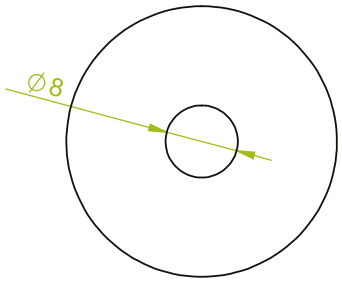
10.030.158._

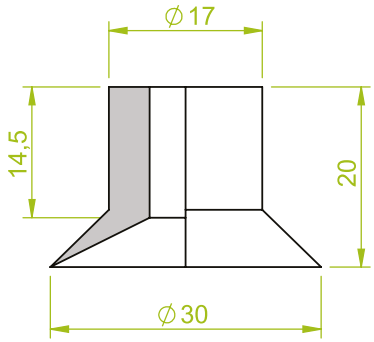
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG

4mm	1.4g

10.030.179._





Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.114 130.132 130.190 130.192	1/8" IG 1/8" AG 1/4" AG 1/4" IG

3mm	4.2g

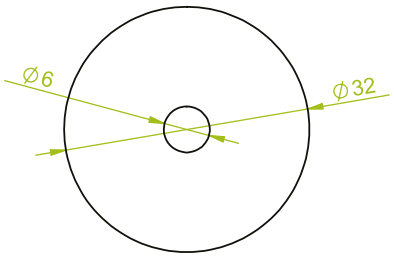
10.030.322._

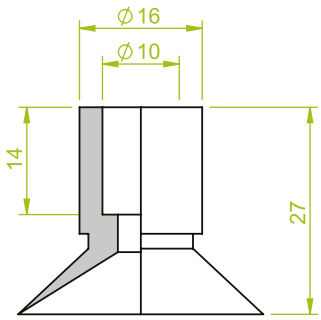
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109 130.238	1/8" IG 1/8" AG

4mm	1.8g

10.030.355._





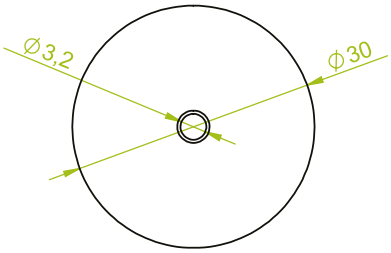
Materialcode
02 Silikon

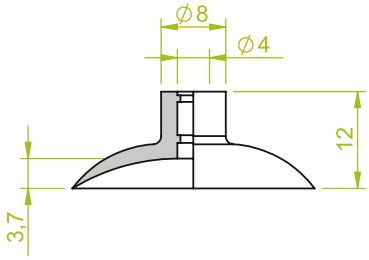
Halter *Fitting*	Gewinde *Thread*
130.190 130.192 130.244 130.609	1/4" AG 1/4" IG M5 AG 1/4" AG

6.5mm	3.6g

Flachsauger I *Flat cups*

10.030.386._



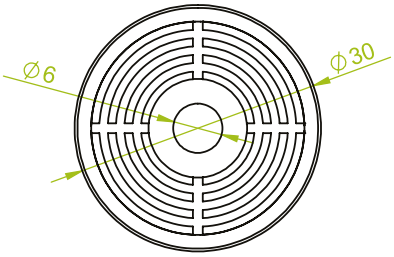


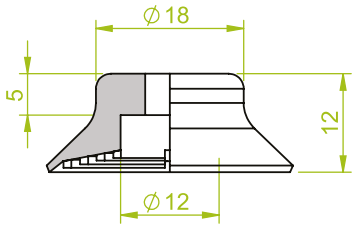
Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.104	M6 AG

4.5mm	1.4g

10.030.394._



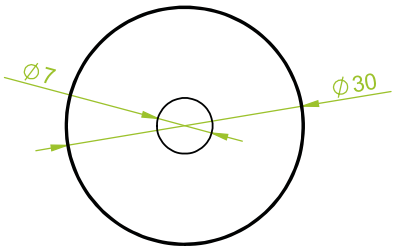


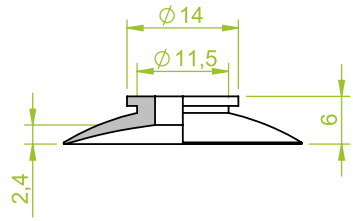
Materialcode

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG
130.611	1/8" AG
270.481	1/8" IG
270.483	1/4" AG
270.484	1/4" IG

1.8mm	3.7g

10.030.398._



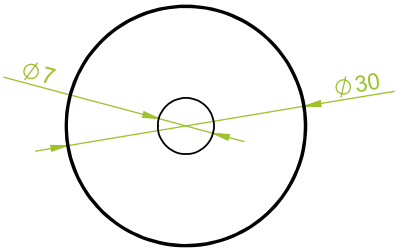


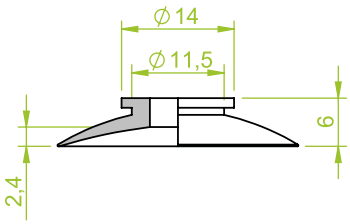
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

3mm	1.2g

10.030.399._



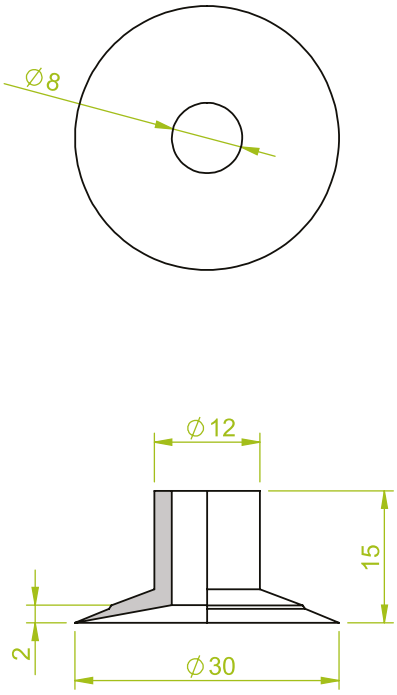


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.039	M6 AG
130.274	1/4" AG
130.275	1/4" IG

3mm	1.8g

10.030.401._

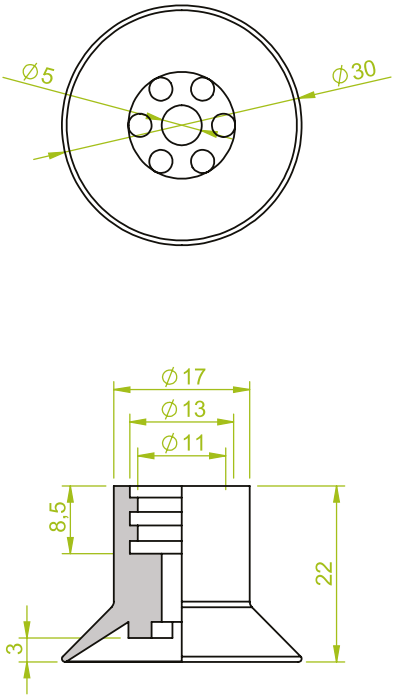


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.112	1/8" AG
130.114	1/8" IG
130.244	M5 AG

1mm	1.5g

10.030.409._

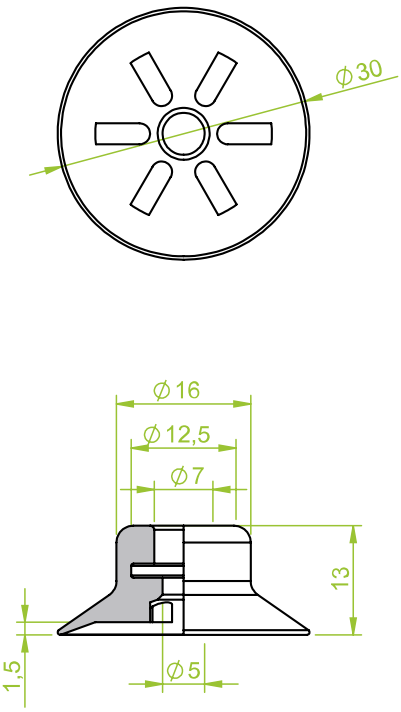


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG

3mm	4.6g

10.030.590._

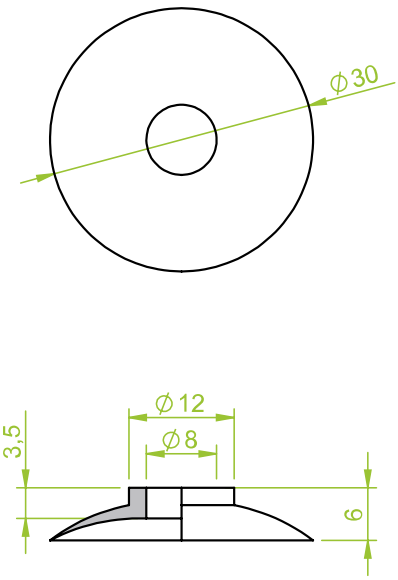


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

1.5mm	3g

10.030.606._



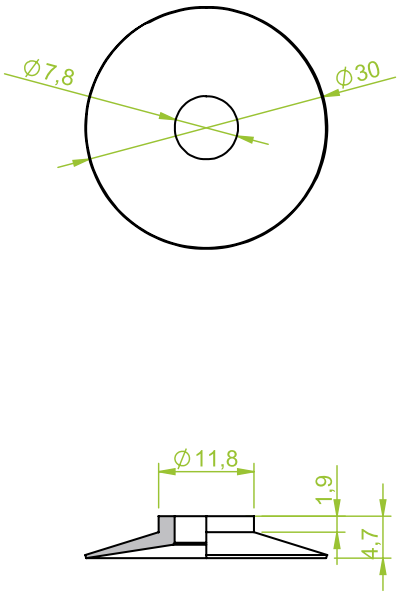
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	0.9g

Flachsauger I *Flat cups*

10.030.614._

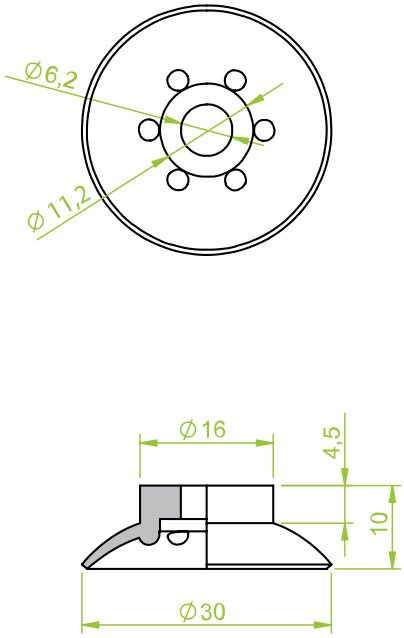


Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	1g

10.030.617._

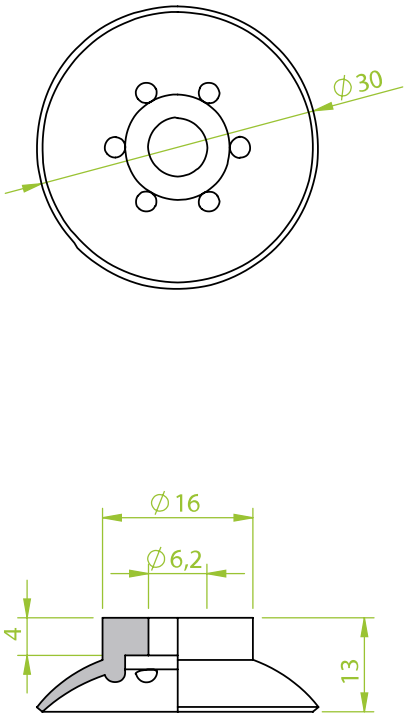


Materialcode
04 CR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.006 130.599	1/8" AG M5 AG

3.5mm	1.8g

10.030.668._

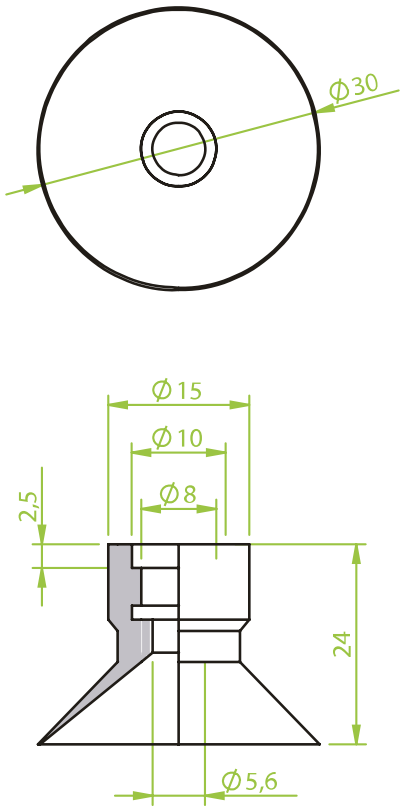


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.006 130.599	1/8" AG M5 AG

3mm	2.8g

10.030.672._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	2.2g

MORALI VACTEC SYSTEMS

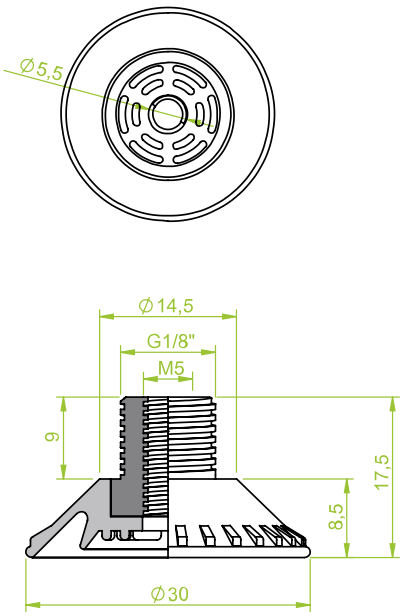
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

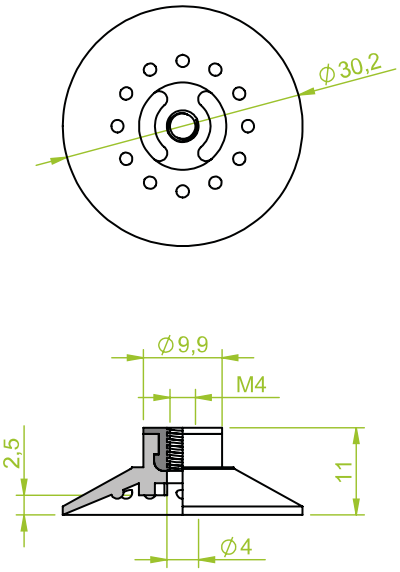
13.030.030._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1.5mm	6g

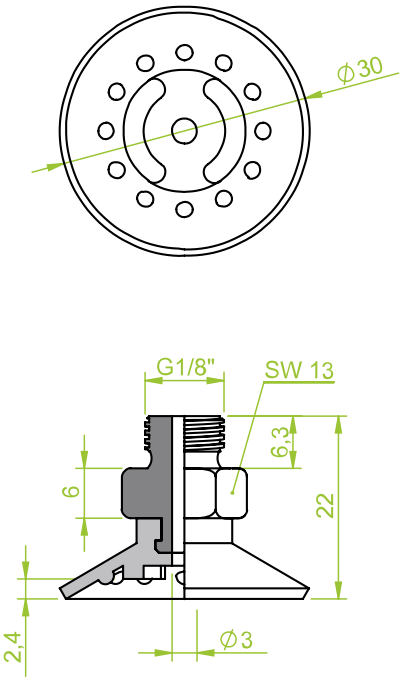
13.030.073._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
2mm	2.1g

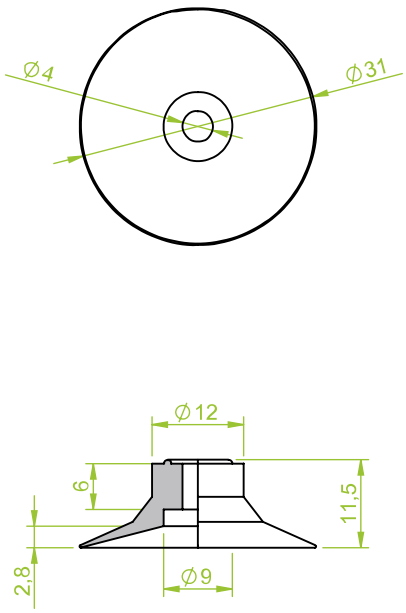
14.030.044._ vulkanisiert



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
2mm	5.2g

10.031.055._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.317	M5 AG
270.459	M6 AG
270.479	1/8" IG
270.480	1/8" AG
2.3mm	1.5g

Morali Produktionstechnik GmbH
Handling technology

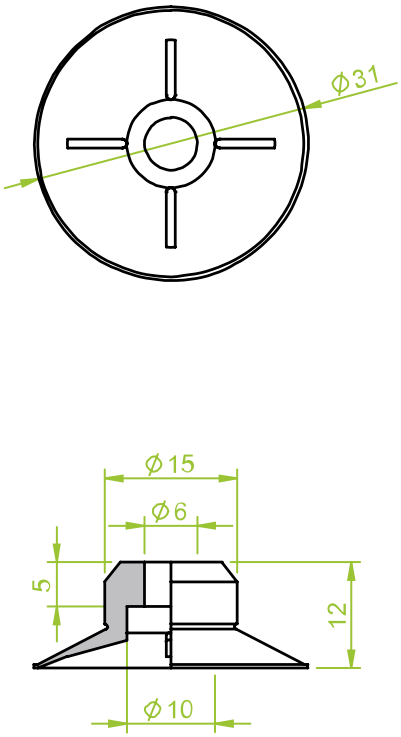
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

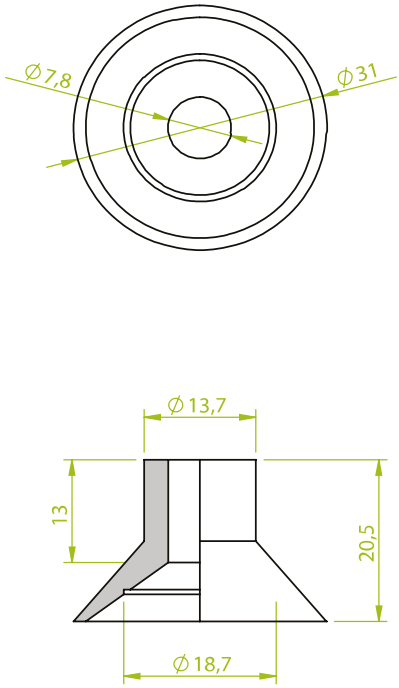
10.031.637._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
2mm	1.8g

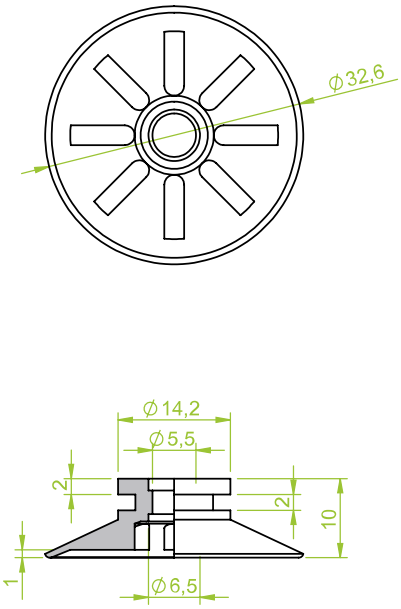
10.031.683._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
6mm	3.1g

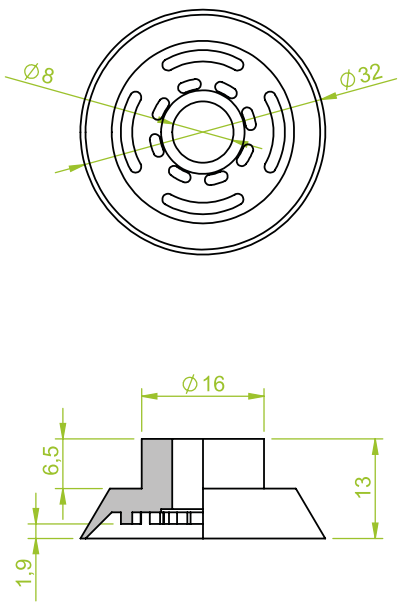
10.032.022._



Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.135	1/8" AG
130.250	1/8" AG
130.291	1/8" AG
130.507	1/8" AG
2.5mm	1.8g

10.032.105._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.451	1/4" AG
130.452	1/4" IG
2mm	4.4g

MORALI VACTEC SYSTEMS

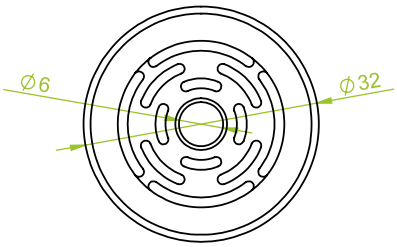
Morali Produktionstechnik GmbH
Handling technology

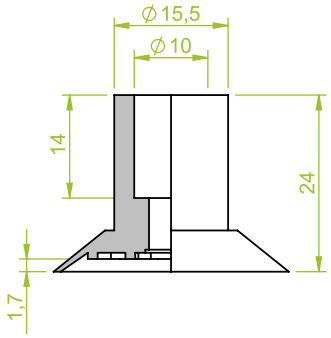
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.032.111._



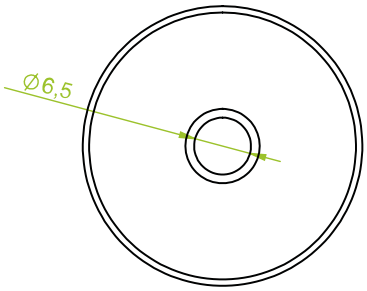


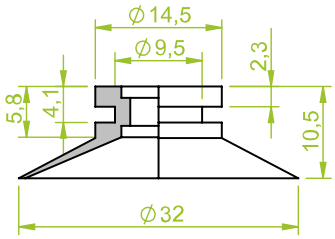
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.244	M5 AG
130.451	1/4" AG
130.452	1/4" IG

2mm	4.4g

10.032.121._



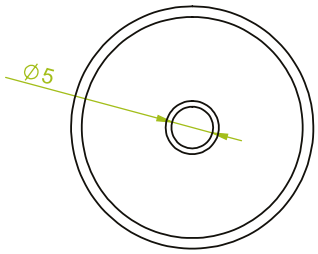


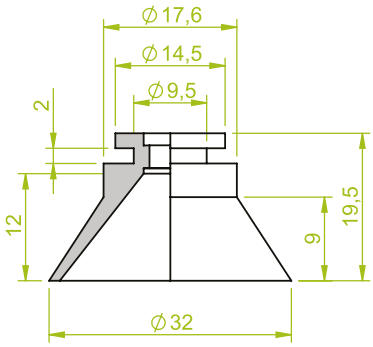
Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.135	1/8" AG
130.250	1/8" AG
130.291	1/8" AG
130.507	1/8" AG

4.5mm	1.2g

10.032.127._





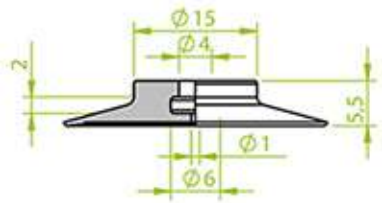
Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.135	1/8" AG
130.250	1/8" AG
130.291	1/8" AG
130.507	1/8" AG

5mm	3.3g

10.032.165._





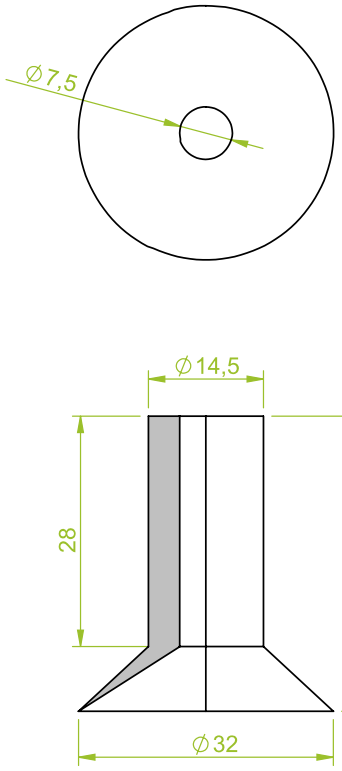
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0mm	1.7g

Flachsauger I *Flat cups*

10.032.418._

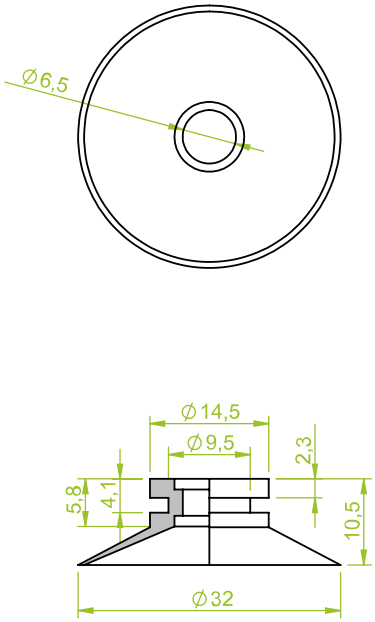


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.112 130.113 130.114	1/8" AG 1/4" AG 1/8" IG

6mm	4.8g

10.032.704._

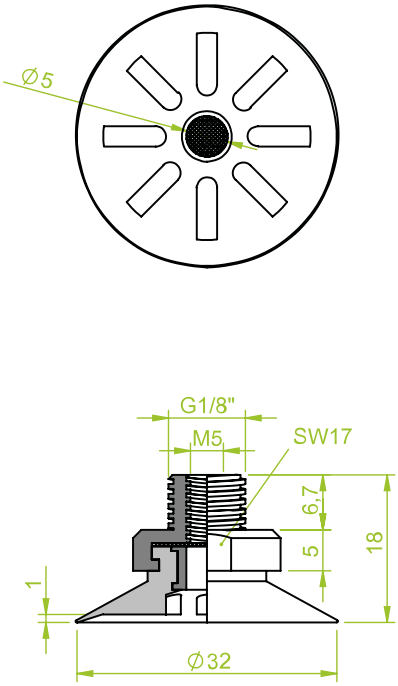


Materialcode

Halter *Fitting*	Gewinde *Thread*

6mm	3.6g

11.032.006._

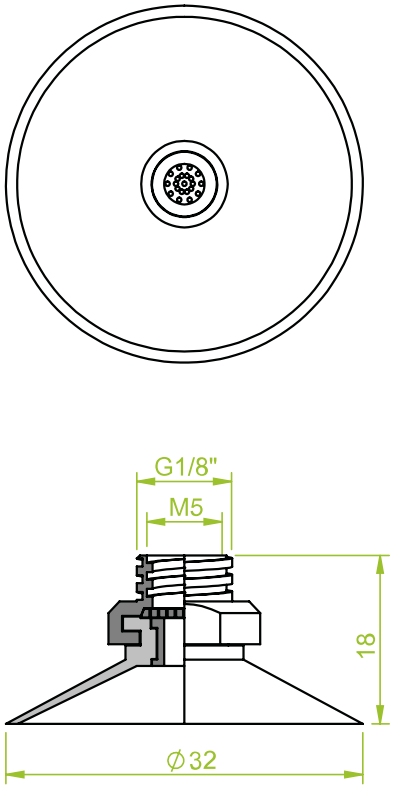


Materialcode
04 CR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	7g

11.032.012._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	4.7g

MORALI VACTEC SYSTEMS

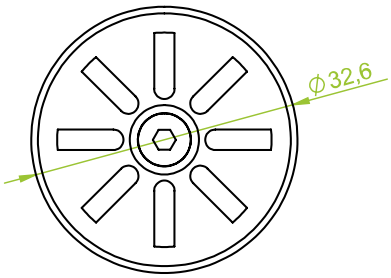
Morali Produktionstechnik GmbH
Handling technology

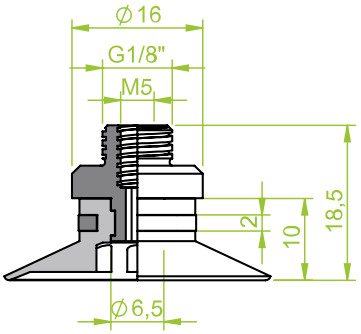
Stadtweg 30
D-78658 Zimmern o.R.

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

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

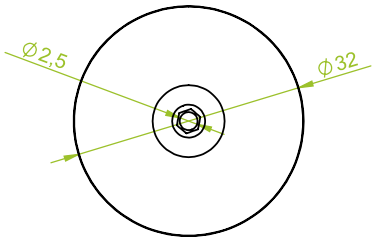
11.032.017._

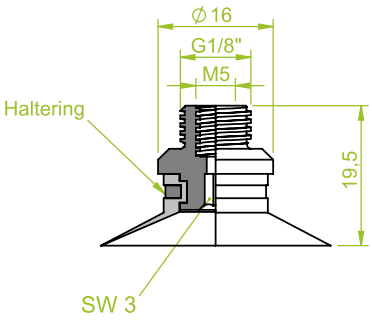




Materialcode	
04 CR 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
0.5mm	3.7g

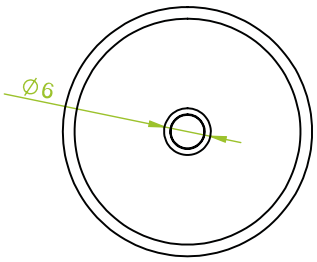
11.032.021._

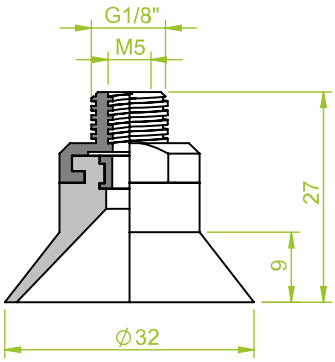




Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
4.5mm	0g

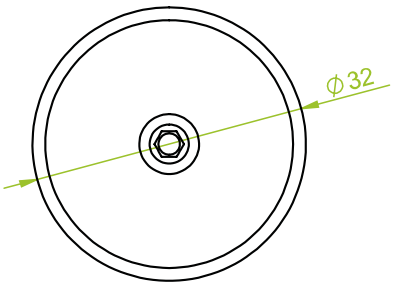
11.032.026._

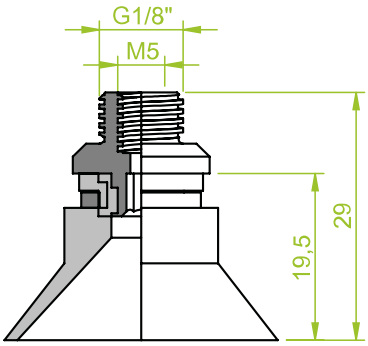




Materialcode	
04 CR 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
5mm	6.3g

11.032.029._



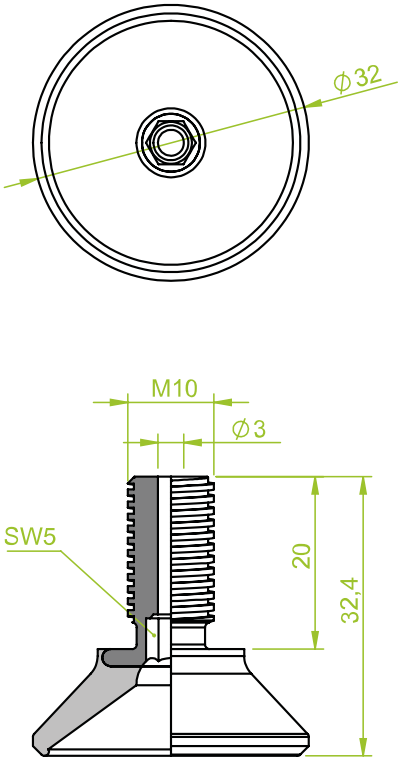


Materialcode	
04 CR 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
5mm	6.3g

Flachsauger I *Flat cups*

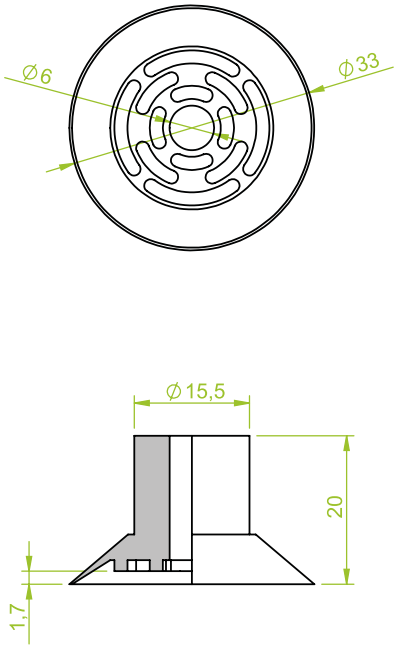
14.032.051._

vulkanisiert



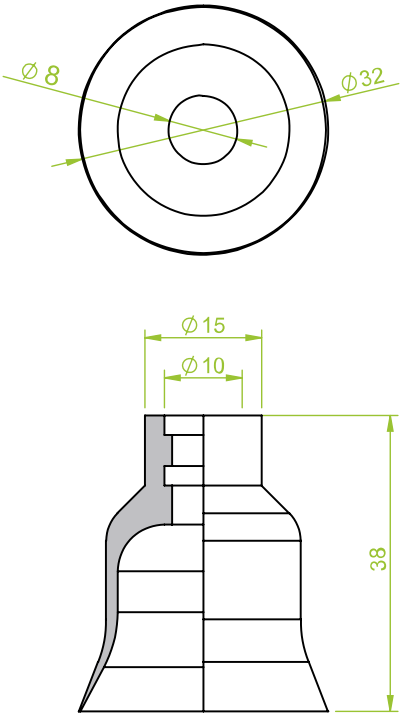
Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
5mm	8.4g

10.033.419._



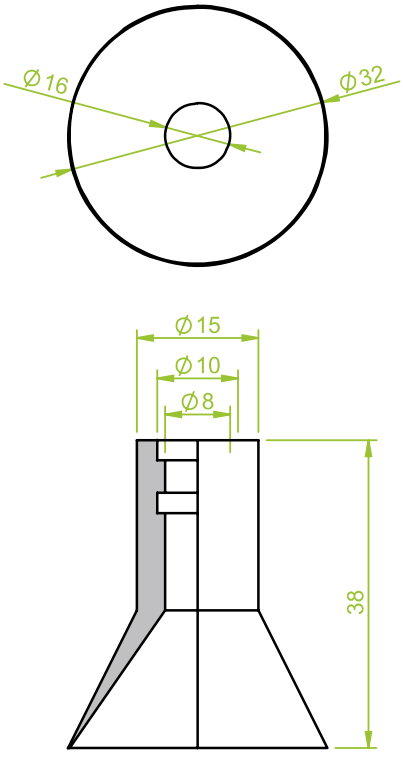
Materialcode	
V Vinyl	
Halter *Fitting*	**Gewinde** *Thread*
130.036 130.177 130.244 130.451 130.452	1/8" AG M10 AG M5 AG 1/4" AG 1/4" IG
1.5mm	4.4g

10.033.578._



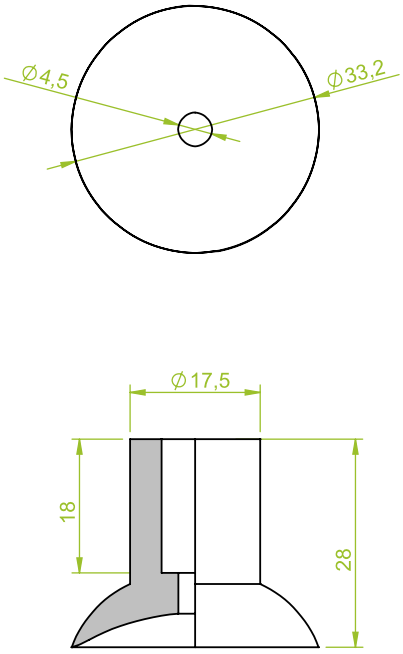
Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.132 130.190 130.208	1/8" AG 1/4" AG 1/4" AG
6mm	6g

10.033.579._



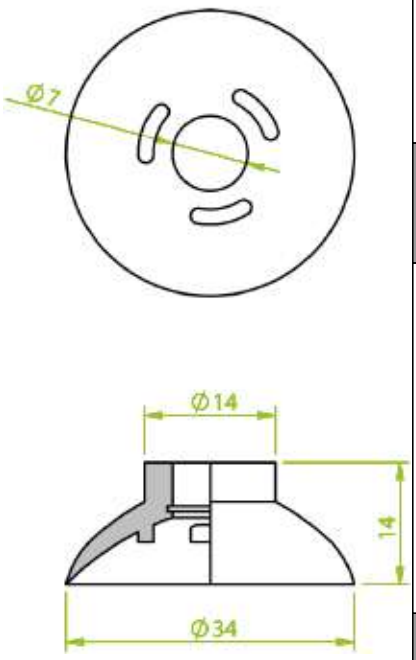
Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.132 130.190 130.208	1/8" AG 1/4" AG 1/4" AG
mm	7g

10.033.642._



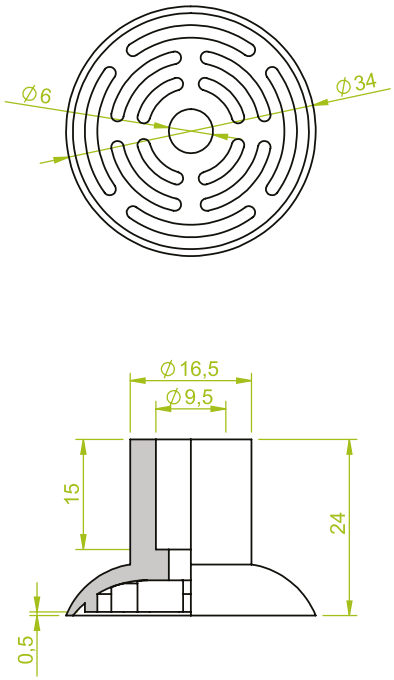
Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.208	1/4" AG
130.614	1/4" AG
1mm	8.7g

10.034.094._



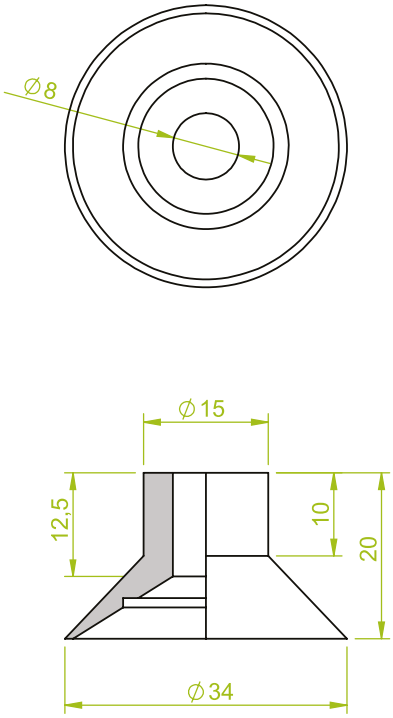
Materialcode	
02 Silikon 12 verstärktes Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
2.5mm	3.8g

10.034.106._



Materialcode	
03 NR 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG
130.609	1/4" AG
0.5mm	4.7g

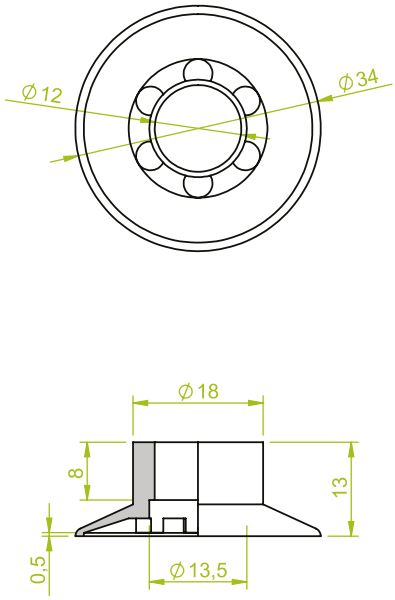
10.034.180._



Materialcode	
03 NR 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.178	1/4" IG
3mm	4.4g

Flachsauger I *Flat cups*

10.034.395._

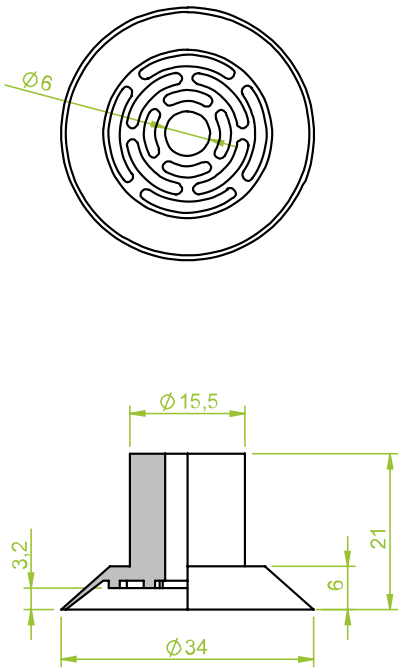


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG

1mm	4.4g

10.034.397._

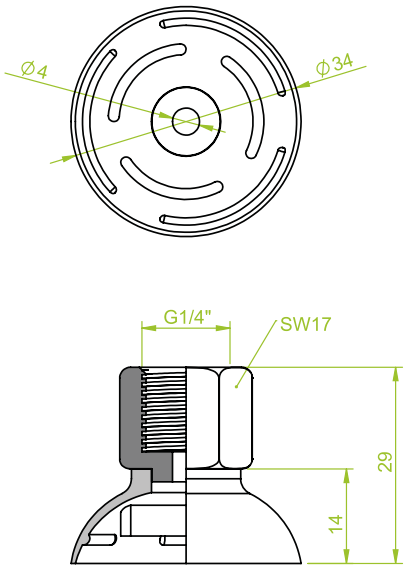


Materialcode
06 EPDM 03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.030	1/8" AG
130.043	1/4" AG
130.114	1/8" IG
130.274	1/4" AG
130.275	1/4" IG

3mm	4.8g

13.034.075._ vulkanisiert

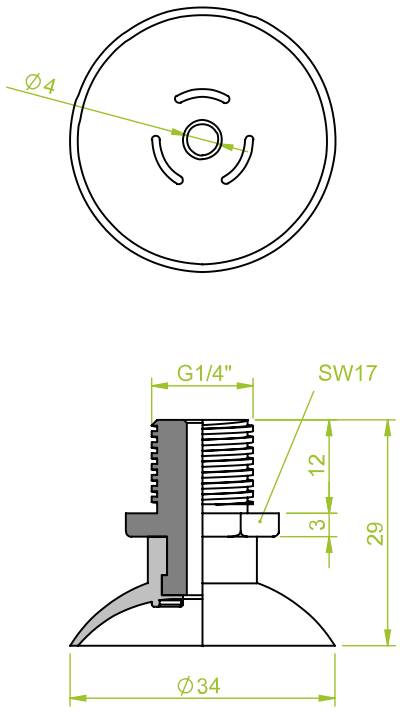


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

2mm	19.9g

14.034.053._ vulkanisiert



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

2.5mm	23.3g

MORALI VACTEC SYSTEMS

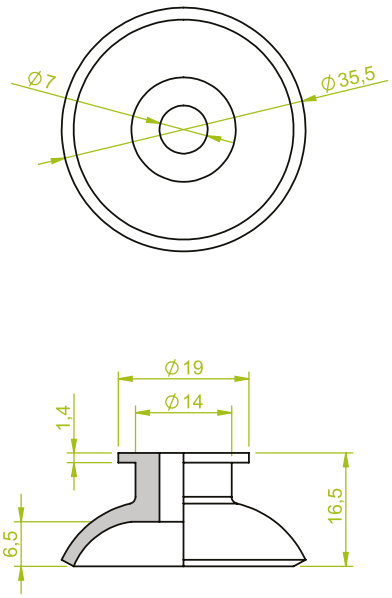
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.035.025._

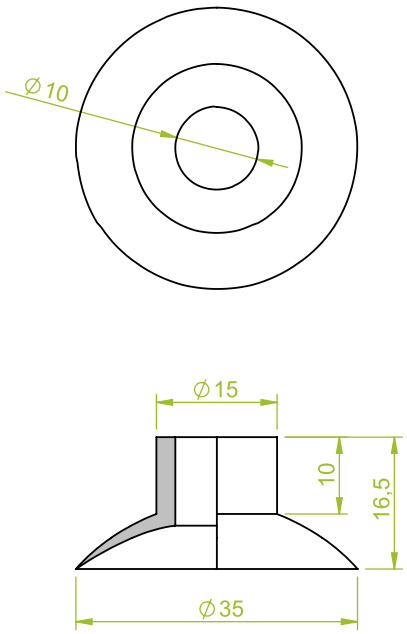


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG

6mm	4.4g

10.035.081._

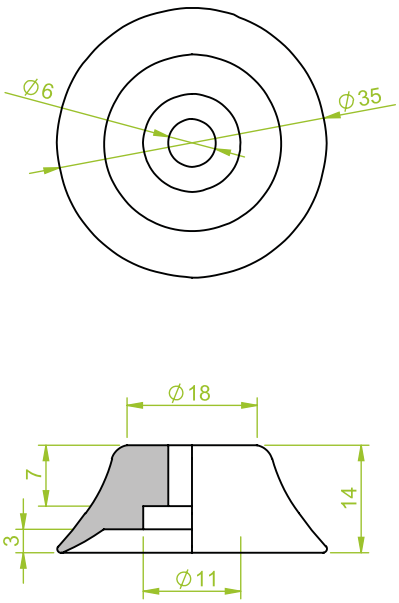


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	3.2g

10.035.143._

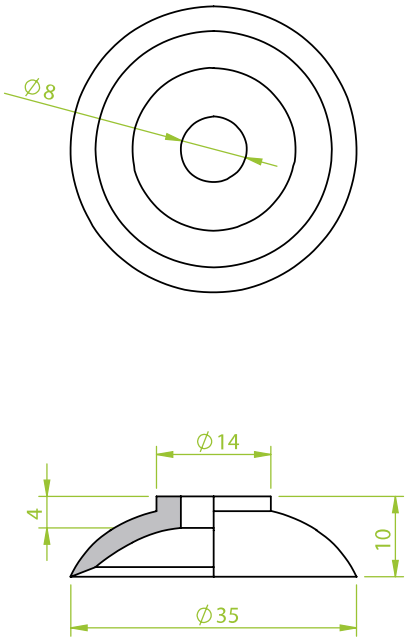


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG

3mm	6g

10.035.427._



Materialcode
03 NR 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	2.8g

Morali Produktionstechnik GmbH
Handling technology

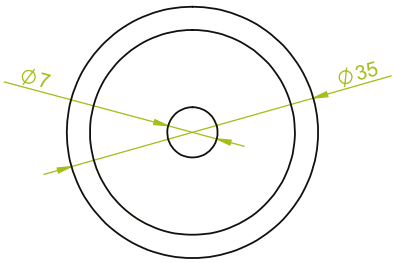
Stadtweg 30
D-78658 Zimmern o.R.

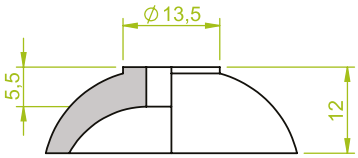
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.035.428._



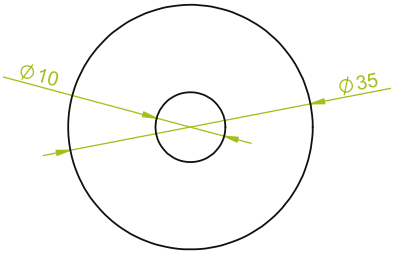


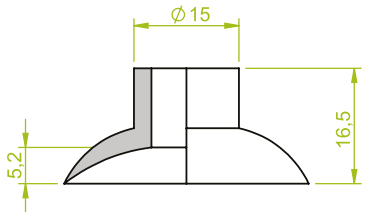
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG

5mm	3.2g

10.035.429._



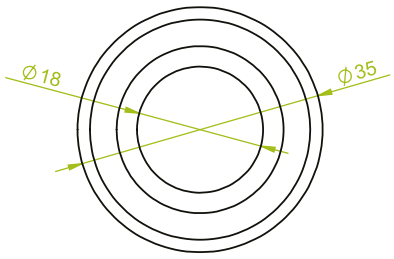


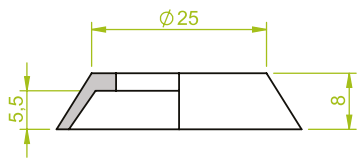
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.177 130.451 130.452	M10 AG 1/4" AG 1/4" IG

4mm	3.2g

10.035.431._



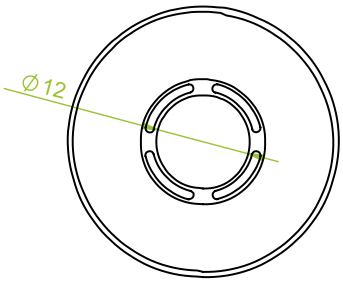


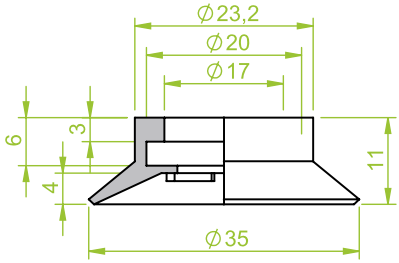
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

4mm	2g

10.035.432._



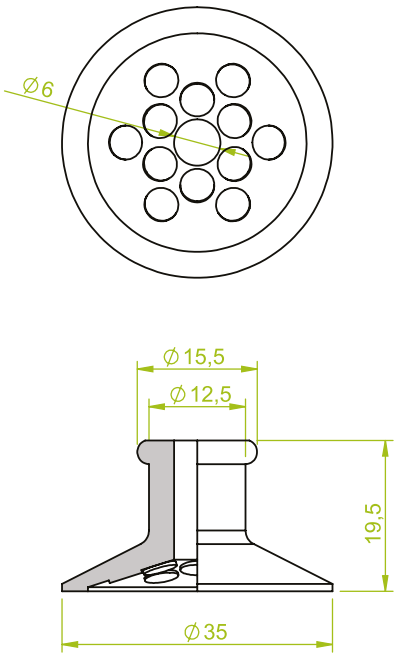


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.234	1/8" IG

3mm	2.4g

10.035.433._

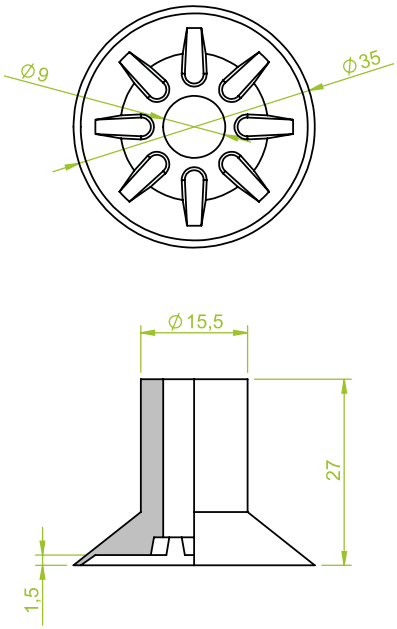


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.030	1/8" AG
130.114	1/8" IG
130.274	1/4" AG
130.275	1/4" IG

1mm	3.6g

10.035.435._

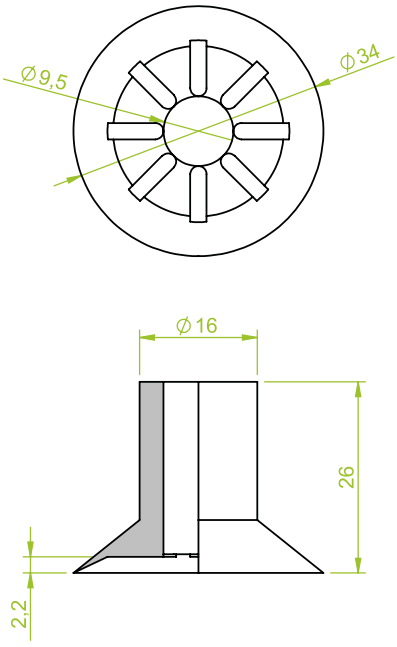


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.208	1/4" AG
130.452	1/4" IG

2mm	4.6g

10.035.436._

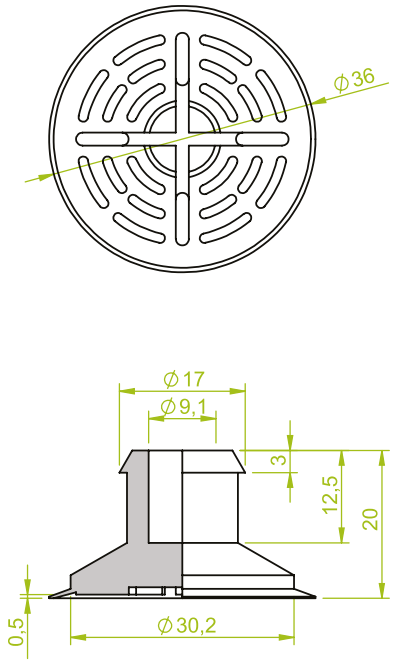


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.208	1/4" AG
130.452	1/4" IG

1.5mm	4.6g

10.036.439._



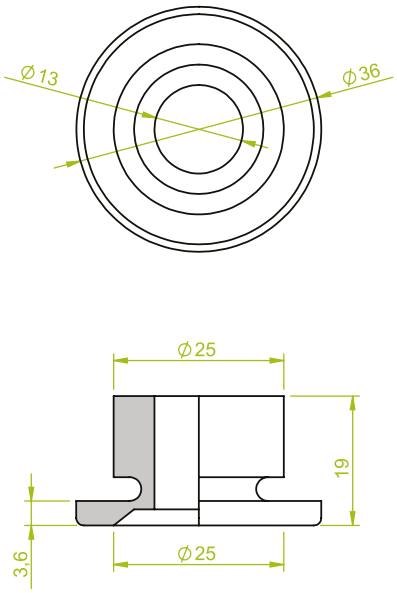
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.451	1/4" AG
130.452	1/4" IG
130.521	1/4" AG

0.5mm	5g

Flachsauger I *Flat cups*

10.036.444._

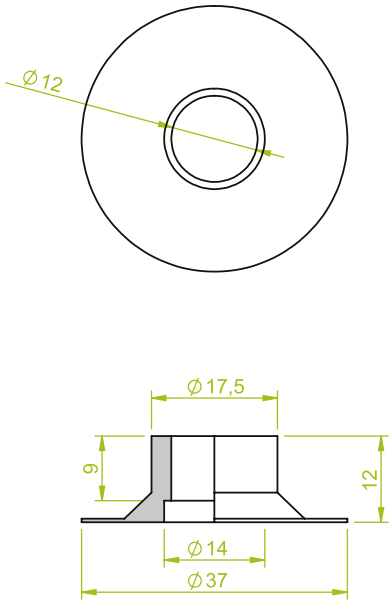


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.207	1/4" AG

1.5mm	6.7g

10.037.446._

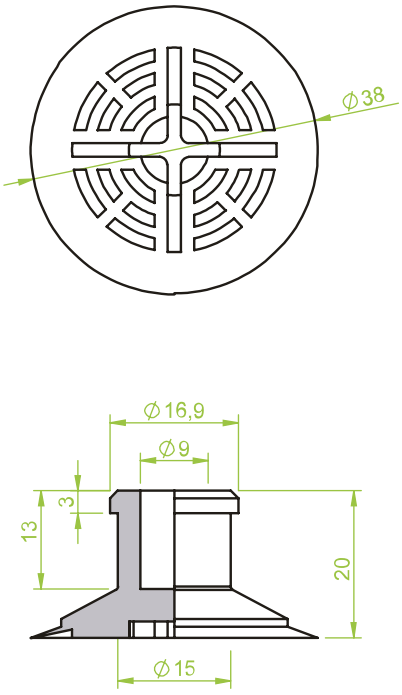


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.097 130.098	1/4" AG 1/4" IG

0mm	2.6g

10.038.333._

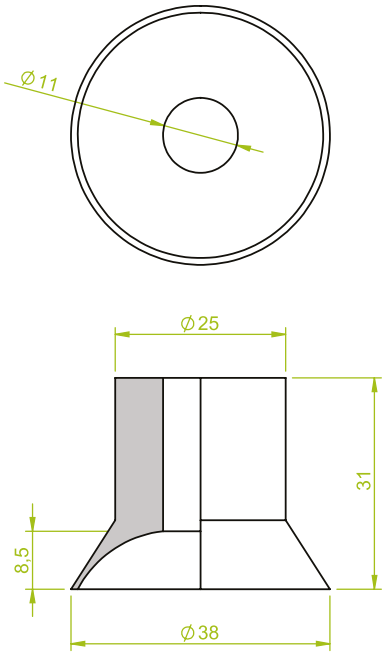


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097 130.451 130.452 130.521	1/4" AG 1/4" AG 1/4" IG 1/4" AG

1mm	4.5g

10.038.437._

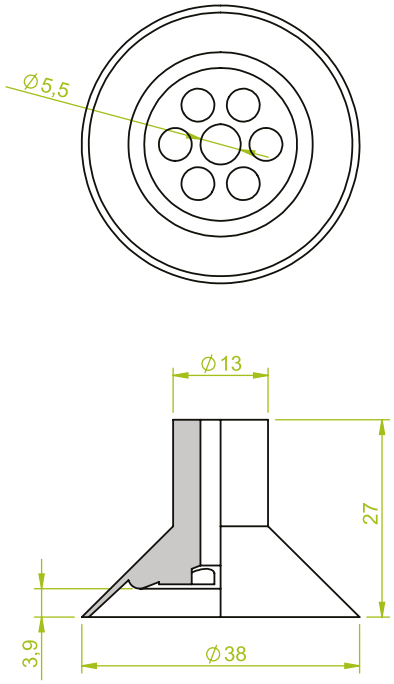


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

6mm	11.6g

10.038.449._

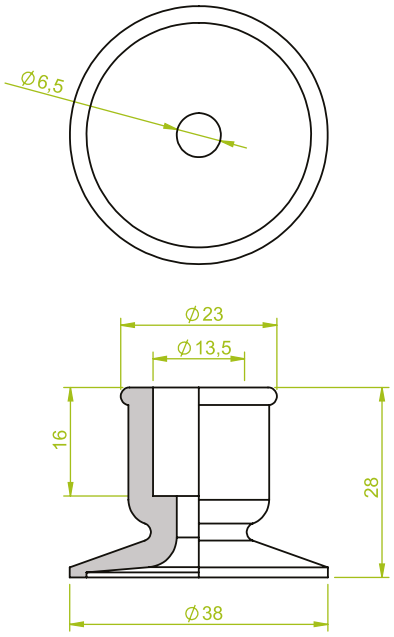


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.041	1/8" IG
130.110	1/8" IG
130.197	M5 AG
130.238	1/8" AG
270.443	M5 AG
270.534	1/4" AG

3.5mm	5.6g

10.038.451._

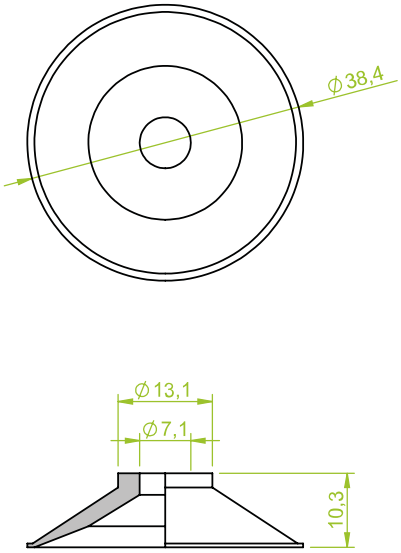


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.207	1/4" AG

2.5mm	8g

10.038.553._

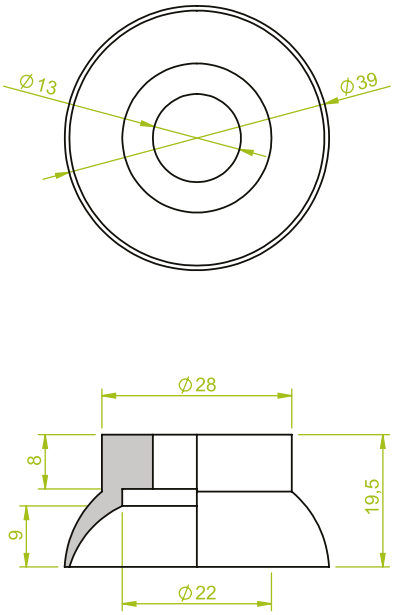


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	2.6g

10.039.452._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.210	1/4" AG

5mm	6.1g

Morali Produktionstechnik GmbH
Handling technology

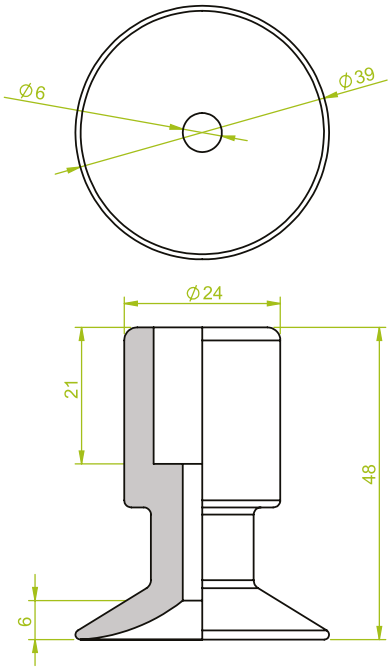
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.039.454._

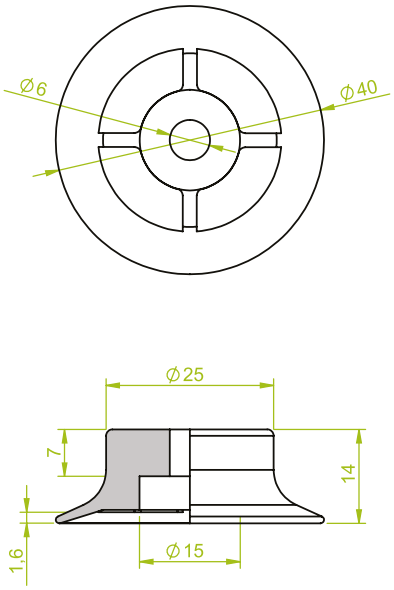


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.116	1/4" IG

5mm	6.1g

10.040.051._

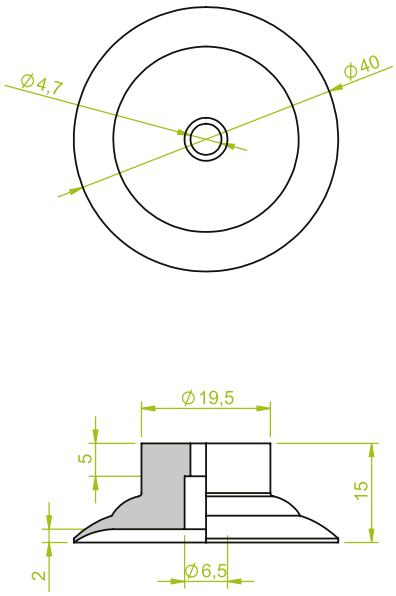


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.039	M6 AG
130.274	1/4" AG
130.275	1/4" IG
130.628	M8 AG

2mm	7.5g

10.040.064._

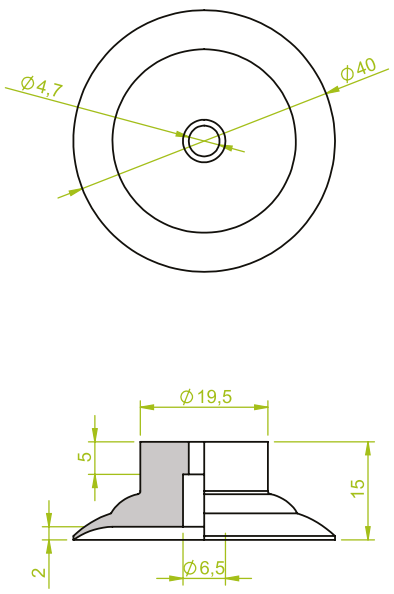


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.205	1/8" AG
130.317	M5 AG

2mm	6.8g

10.040.082._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.098	1/4" IG
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG

mm	0g

MORALI VACTEC SYSTEMS

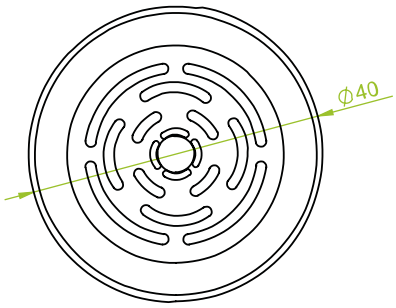
Morali Produktionstechnik GmbH
Handling technology

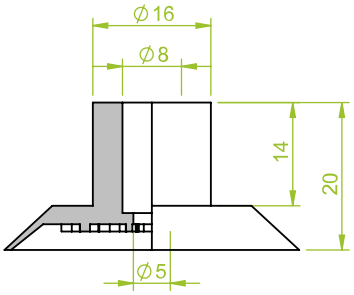
Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.040.101._



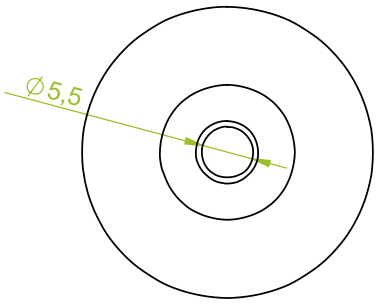


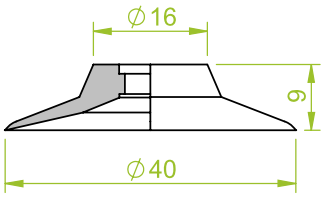
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.113	1/4" AG
130.178	1/4" IG

2mm	4.8g

10.040.124._



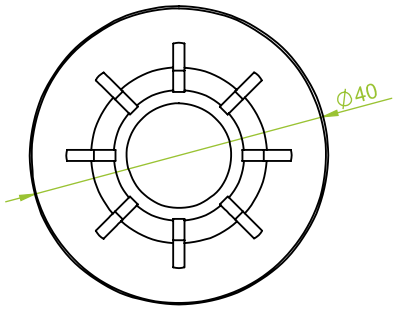


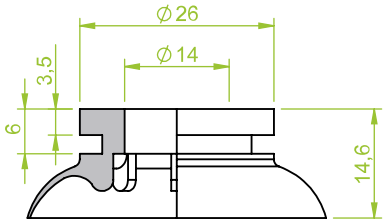
Materialcode
04 CR

Halter *Fitting*	Gewinde *Thread*
130.250	1/8" AG
130.291	1/8" AG

2mm	4g

10.040.125._



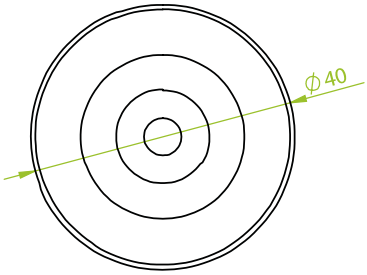


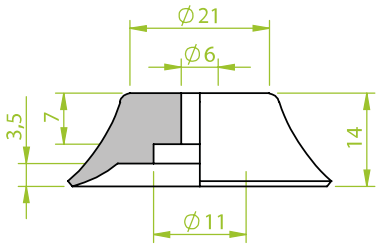
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5.5mm	3.5g

10.040.144._





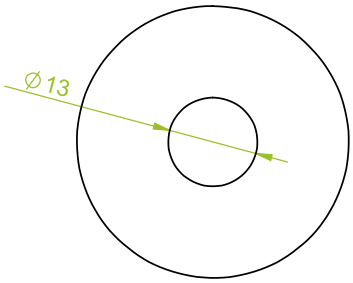
Materialcode
09 HNBR 05 Polyurethan 02 Silikon

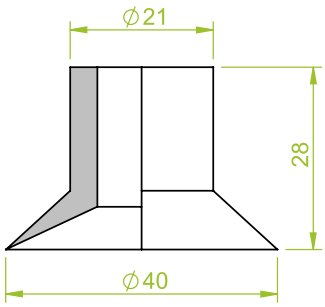
Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG

3mm	7.6g

Flachsauger I *Flat cups*

10.040.181._



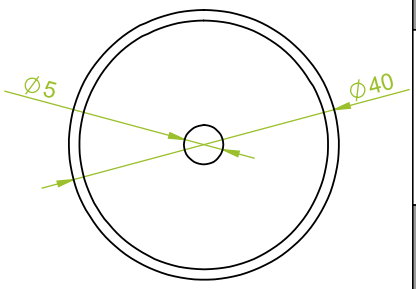


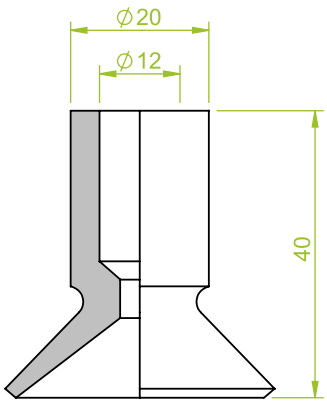
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

4.5mm	7.3g

10.040.357._



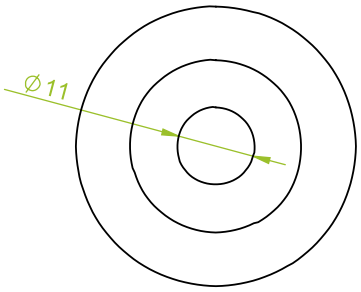


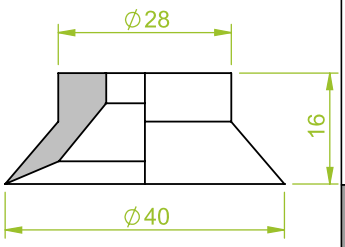
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

4mm	12.4g

10.040.440._



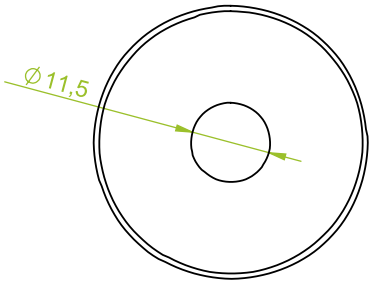


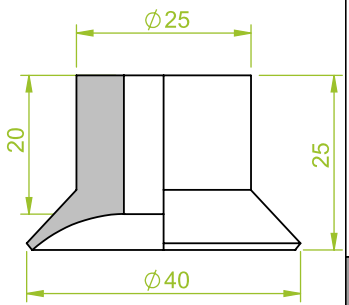
Materialcode
03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.252 130.256	1/8" IG M8 AG

5mm	5.1g

10.040.457._





Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049 130.609	1/4" AG 1/4" AG

2.5mm	9.4g

MORALI VACTEC SYSTEMS

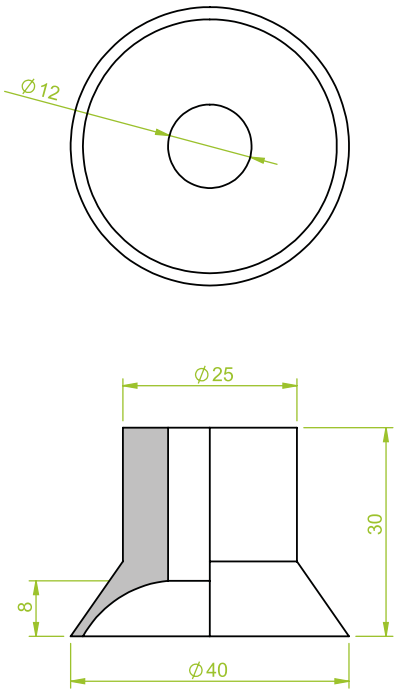
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.040.459._

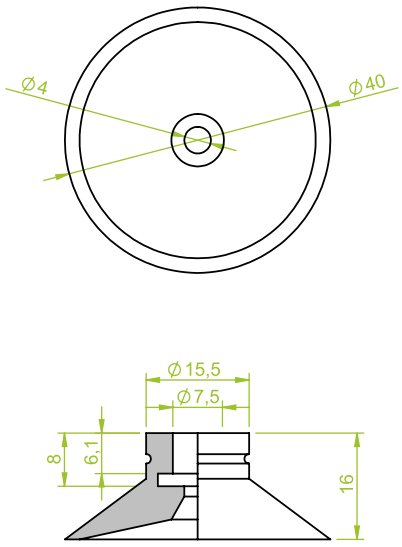


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG
130.609	1/4" AG

5mm	12.2g

10.040.461._

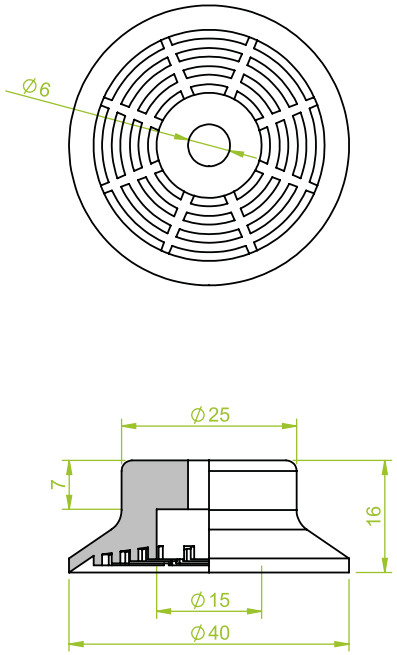


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.020	1/8" IG
130.034	1/4" AG
130.038	1/4" IG

2mm	5.4g

10.040.462._

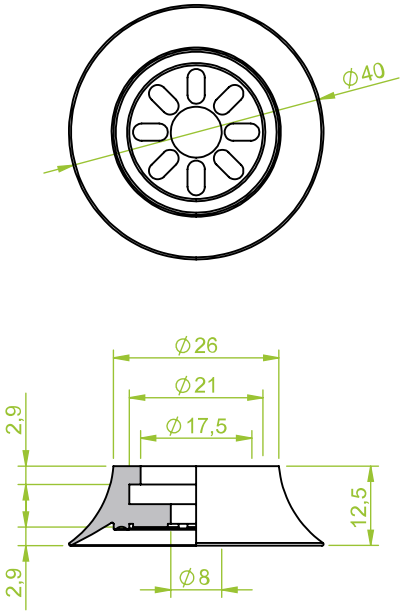


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG
130.274	1/4" AG
130.275	1/4" IG
270.485	1/8" IG
270.486	1/8" AG
270.487	1/4" AG
270.488	1/4" IG

mm	0g

10.040.466._



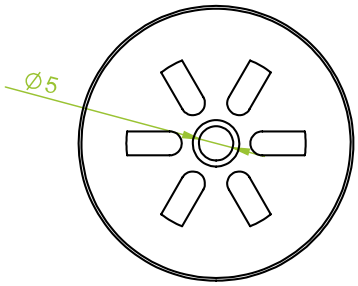
Materialcode
03 NR 02 Silikon

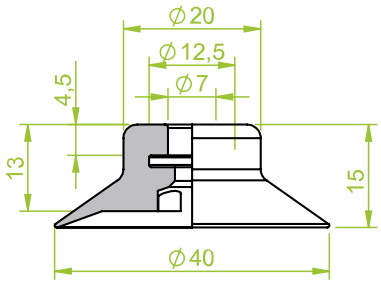
Halter *Fitting*	Gewinde *Thread*
130.234	1/8" IG

3mm	20g

Flachsauger I *Flat cups*

10.040.591._



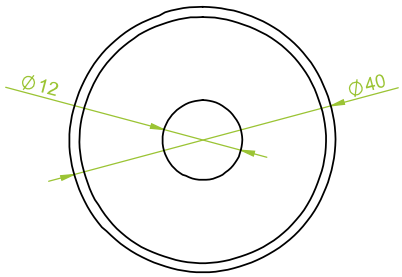


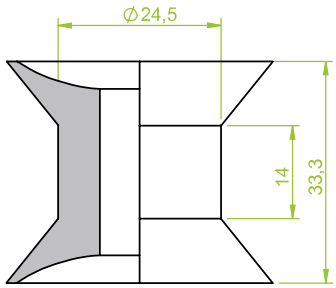
Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604 130.605 130.606	M5 AG 1/8" AG 1/4" AG

2mm	5.9g

10.040.605._



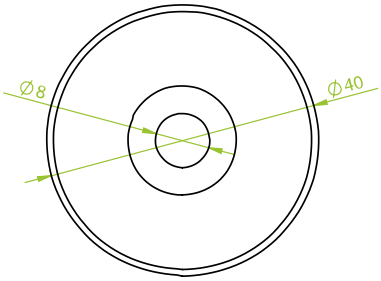


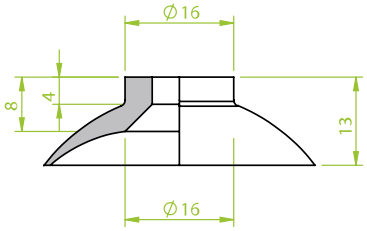
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.116	1/4" IG

10mm	13.8g

10.040.625._



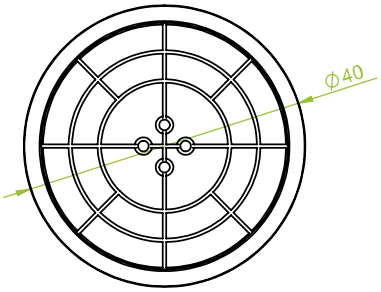


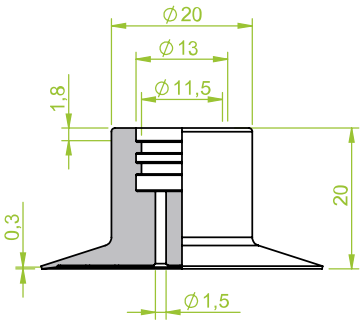
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5.5mm	4.6g

10.040.627._





Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.097 130.098	1/4" AG 1/4" IG

5.5mm	4.6g

MORALI VACTEC SYSTEMS

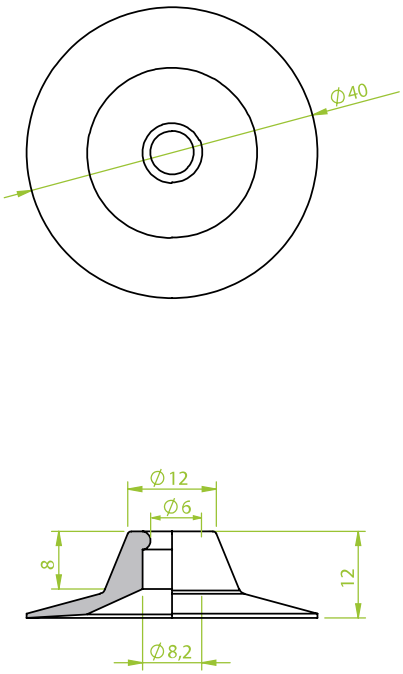
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

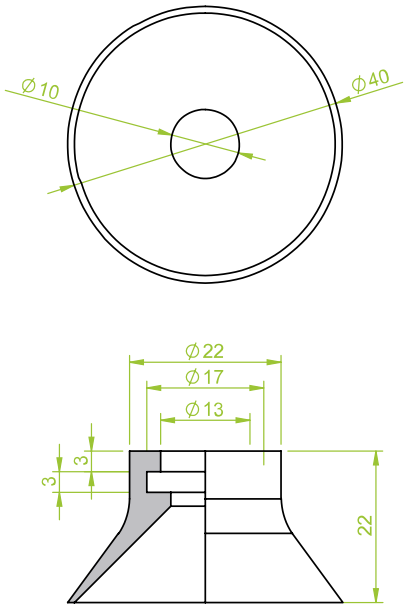
Email: info@morali-gmbh.de
www.morali-gmbh.de

10.040.674._



Materialcode		
Halter *Fitting*	Gewinde *Thread*	
2mm	3.3g	

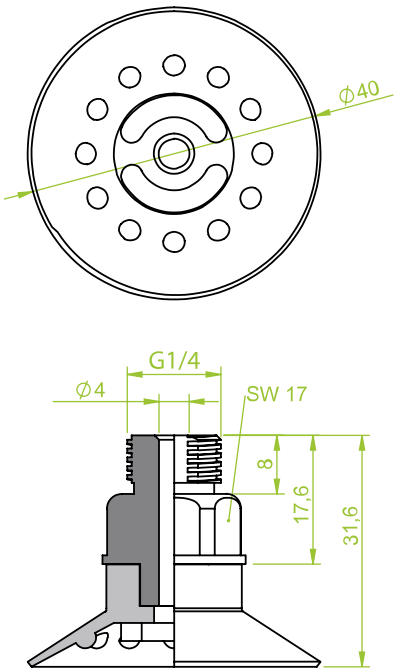
10.040.692._



Materialcode		
06 EPDM		
Halter *Fitting*	Gewinde *Thread*	
2mm	6.8g	

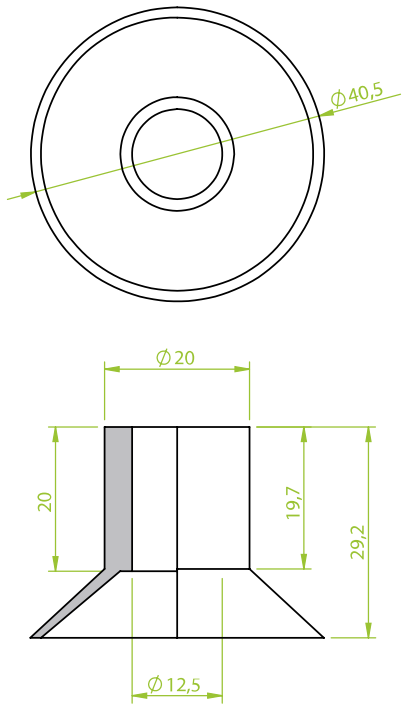
14.040.045._

vulkanisiert



Materialcode		
05 Polyurethan 02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
3mm	13.6g	

10.041.673._



Materialcode		
02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
6.5mm	6.1g	

Morali Produktionstechnik GmbH
Handling technology

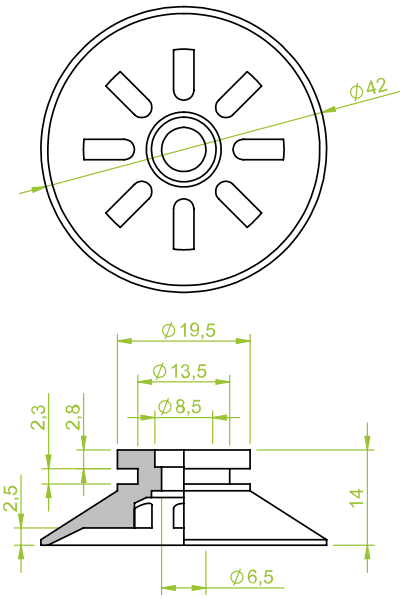
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.042.099._

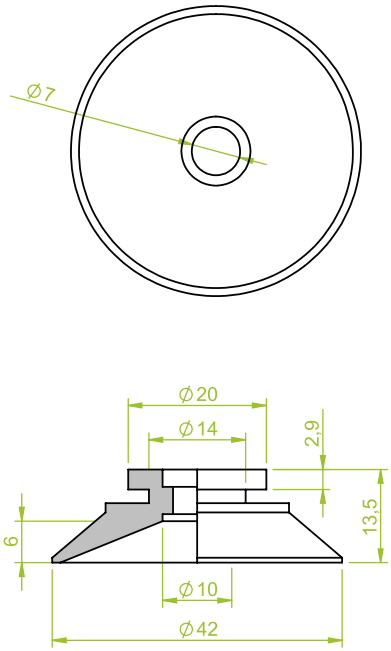


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.136	1/8" IG
130.251	1/8" IG
130.274	1/4" AG
130.275	1/4" IG
130.293	1/4" AG

2mm	4.7g

10.042.122._

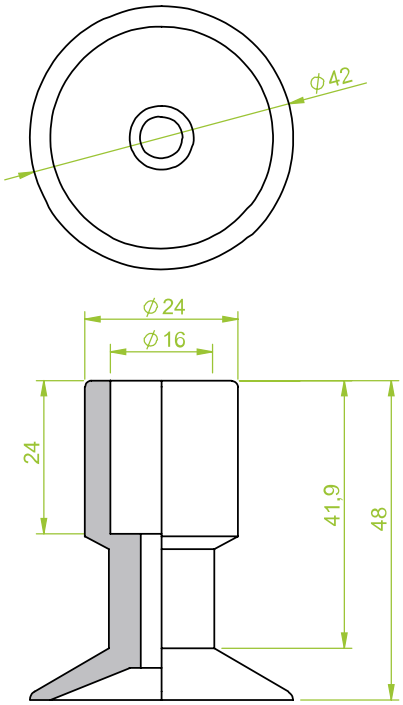


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.136	1/8" IG
130.251	1/8" IG
130.274	1/4" AG
130.275	1/4" IG
130.293	1/4" AG

5mm	5.4g

10.042.468._

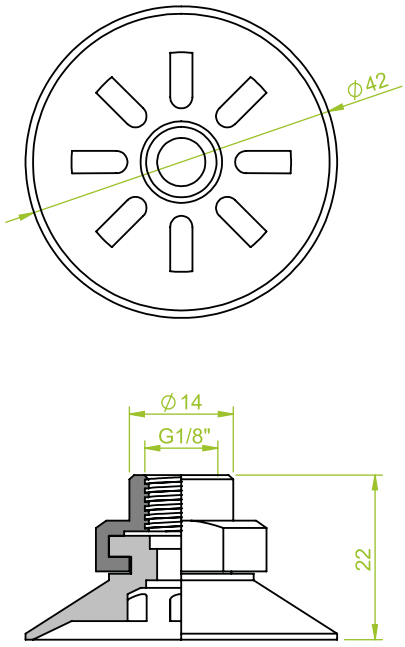


Materialcode
05 Polyurethan V Vinyl

Halter *Fitting*	Gewinde *Thread*

3mm	14.8g

11.042.007._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	18.4g

MORALI VACTEC SYSTEMS

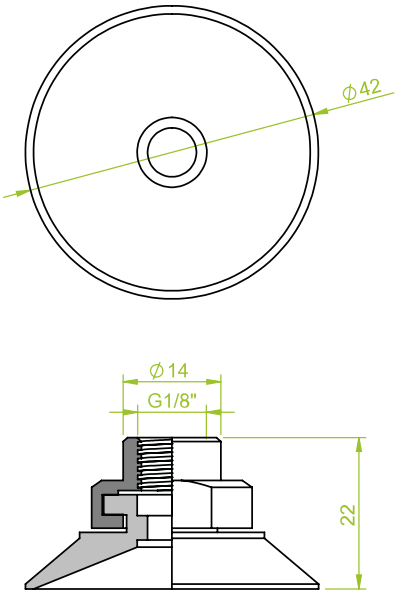
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

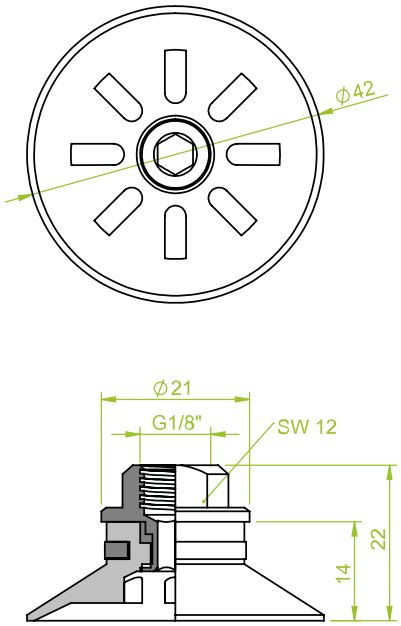
11.042.013._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
4mm	11.2g

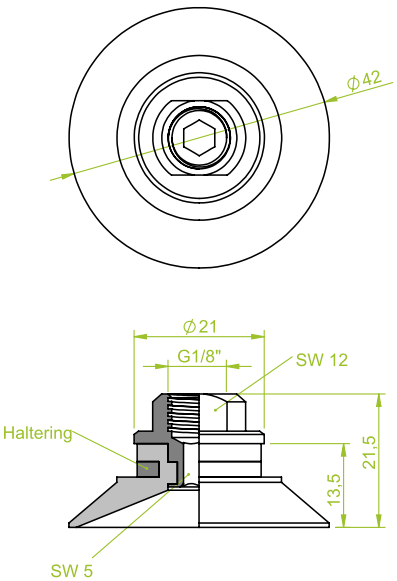
11.042.018._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
2mm	6.4g

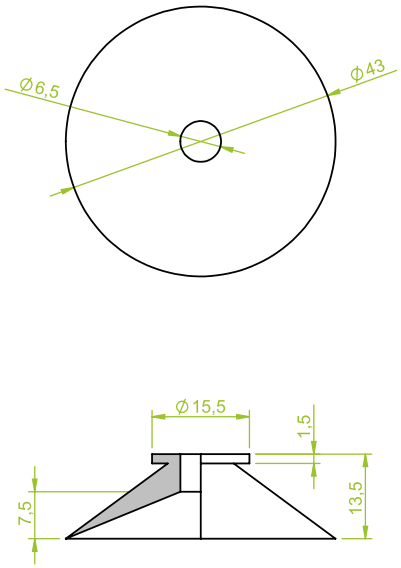
11.042.022._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
5mm	7.8g

10.043.469._



Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.061 130.063	1/8" IG 1/8" AG
5mm	3.6g

Morali Produktionstechnik GmbH
Handling technology

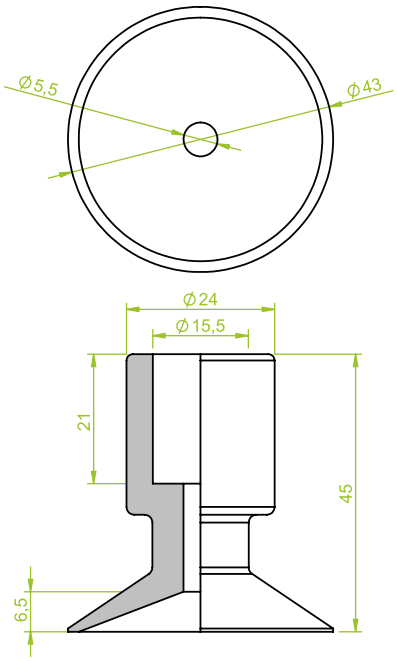
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.043.470._

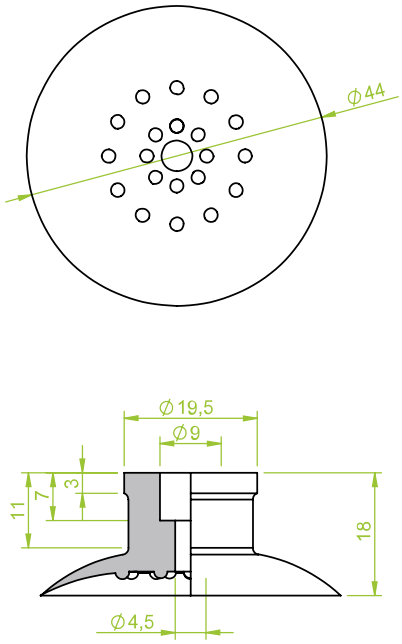


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.116	1/4" IG

7mm	12g

10.044.615._

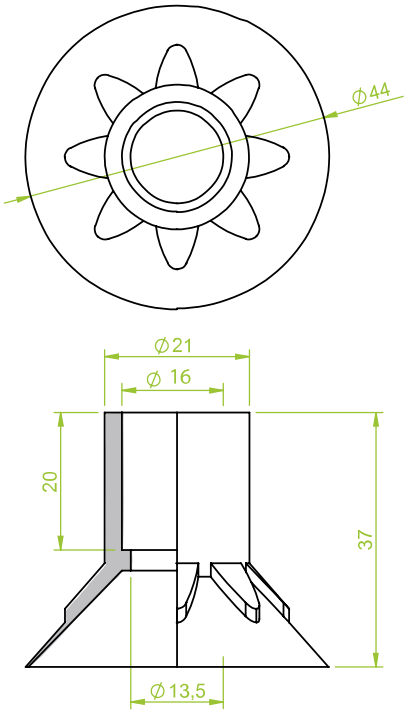


Materialcode

Halter *Fitting*	Gewinde *Thread*

2.5mm	7g

10.044.664._

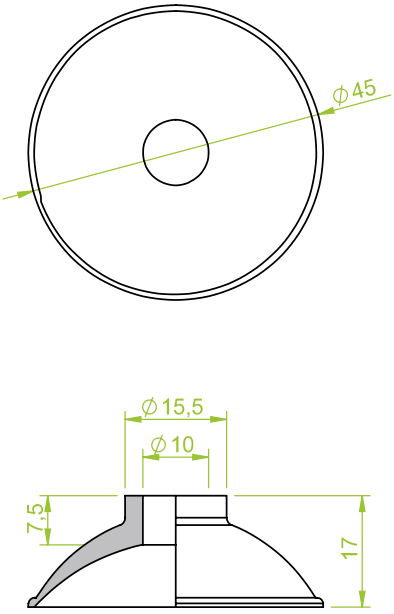


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	6.7g

10.045.083._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.175 130.451 130.452	1/4" AG 1/4" AG 1/4" IG

7mm	6.4g

MORALI VACTEC SYSTEMS

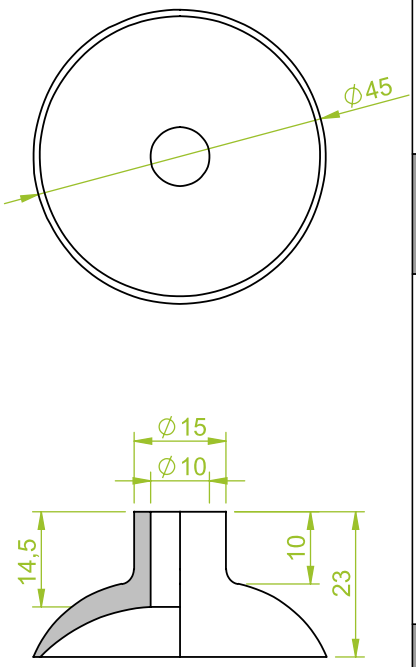
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.045.084._

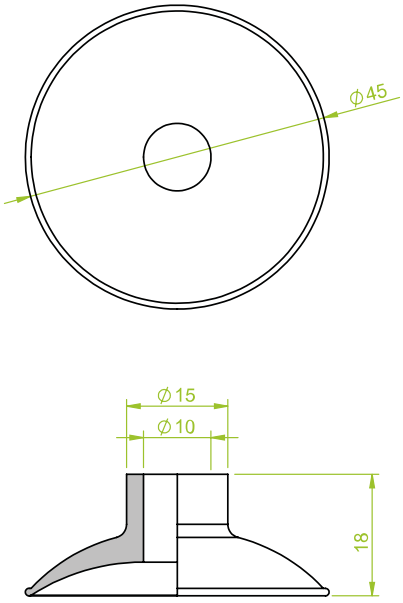


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.175 130.248	1/4" AG 1/4" IG

4mm	6.8g

10.045.474._

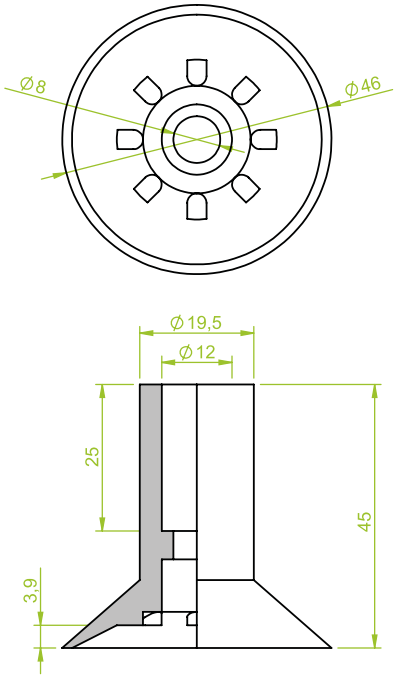


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.175	1/4" AG

4mm	6.6g

10.045.476._

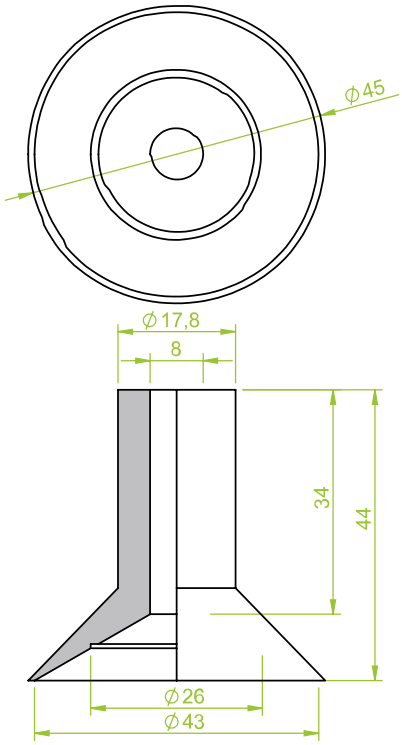


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

5mm	13g

10.045.688._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

8mm	11.8g

Morali Produktionstechnik GmbH
Handling technology

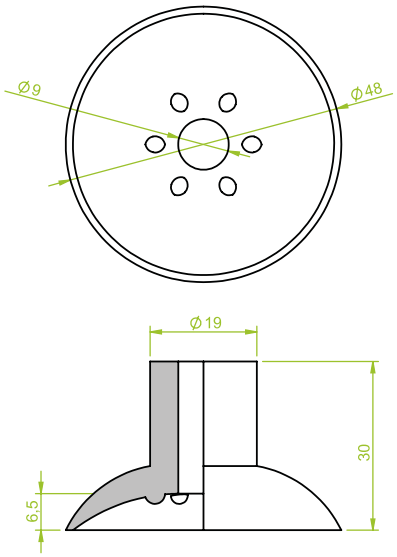
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.048.479._

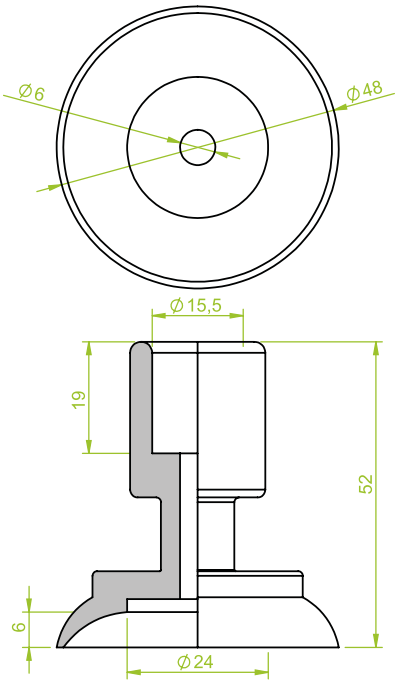


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.178	1/4" IG
130.208	1/4" AG

6mm	11.2g

10.048.481._

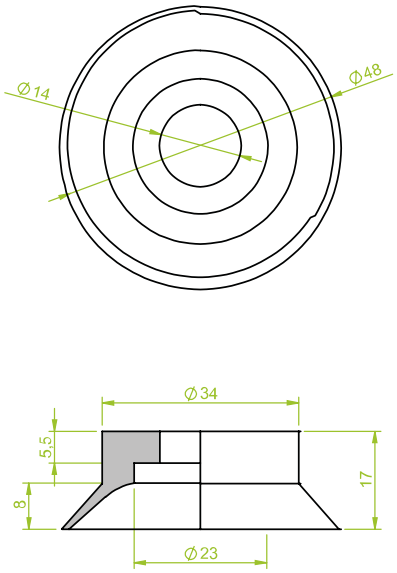


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

8mm	18.4g

10.048.482._

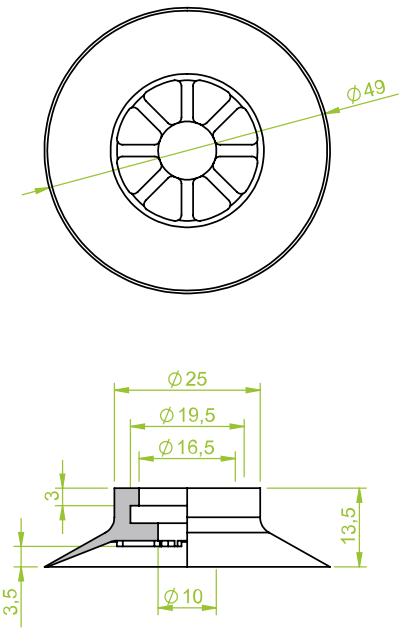


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.210	1/4" AG

5mm	8.8g

10.049.003._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.234	1/8" IG

2mm	6.2g

MORALI VACTEC SYSTEMS

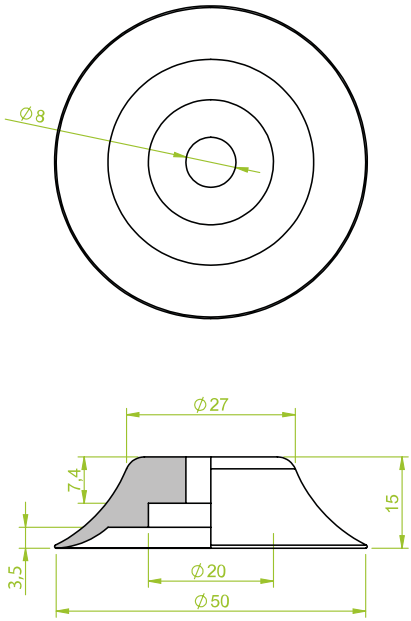
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.050.017._

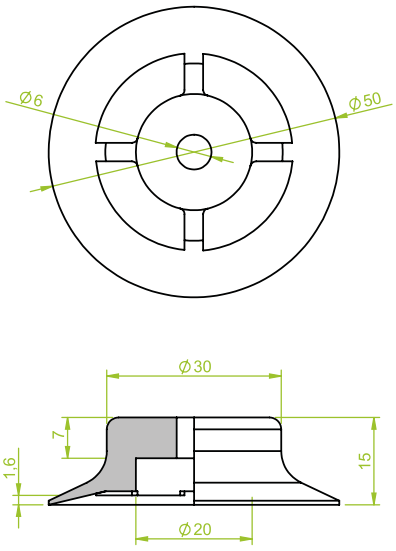


Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.020	1/8" IG
130.034	1/4" AG
130.314	M6 AG
270.489	1/8" IG
270.490	1/8" AG
270.491	1/4" AG
270.492	1/4" IG

3.5mm	11.2g

10.050.052._

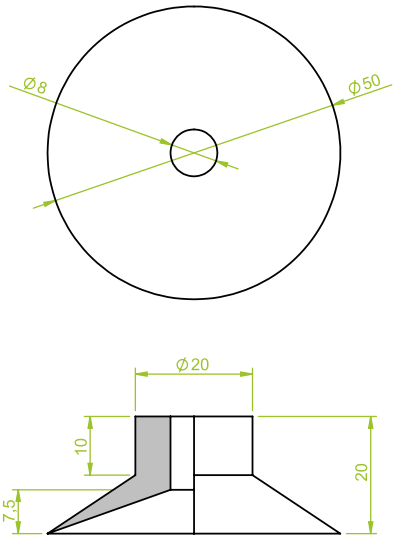


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
270.489	1/8" IG
270.490	1/8" AG
270.491	1/4" AG
270.492	1/4" IG

2mm	11g

10.050.183._

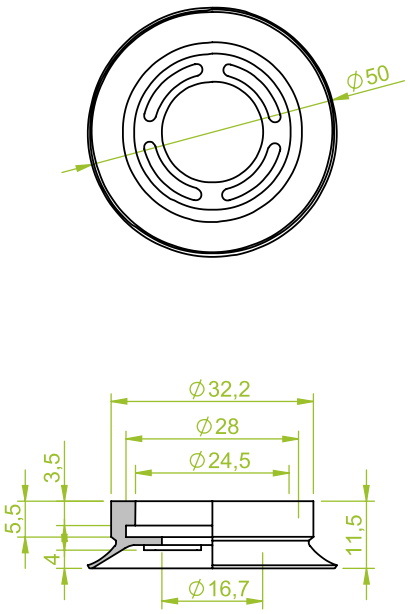


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.114	1/8" IG
130.178	1/4" IG
130.248	1/4" IG

4mm	8g

10.050.484._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.235	1/8" IG

2mm	5g

Morali Produktionstechnik GmbH
Handling technology

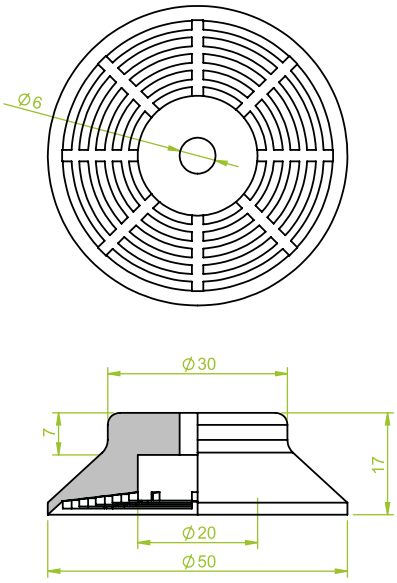
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.050.485._

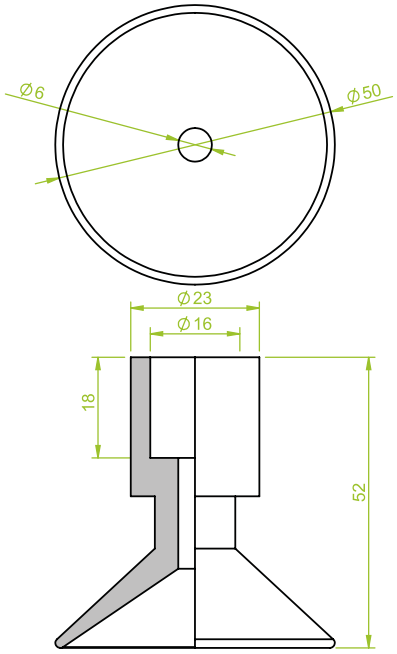


Materialcode	

Halter *Fitting*	Gewinde *Thread*
130.274	1/4" AG
130.275	1/4" IG
130.314	M6 AG
270.489	1/8" IG
270.490	1/8" AG
270.491	1/4" AG
270.492	1/4" IG
270.499	M6 AG

3.1mm	11.2g

10.050.488._

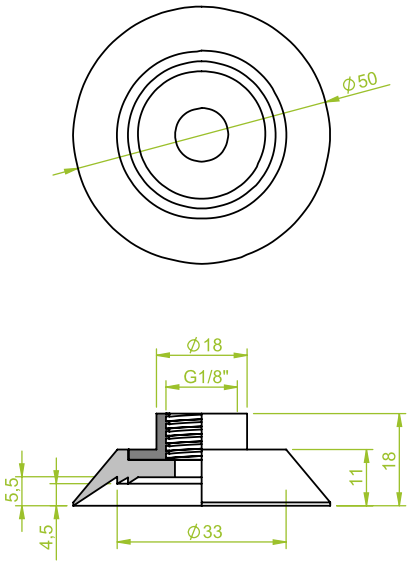


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

10mm	14.2g

13.050.016._ vulkanisiert

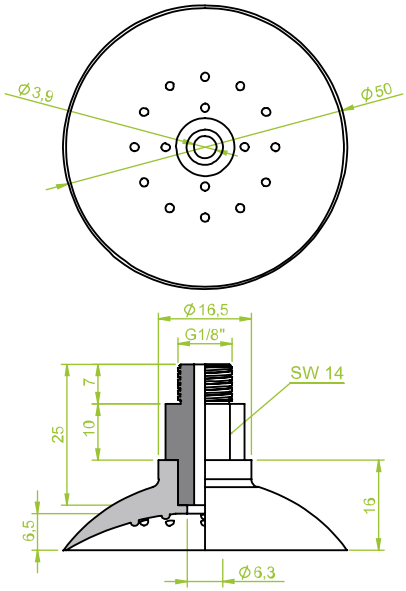


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	13.6g

14.050.017._ vulkanisiert



Materialcode

Halter *Fitting*	Gewinde *Thread*

5mm	15g

MORALI VACTEC SYSTEMS

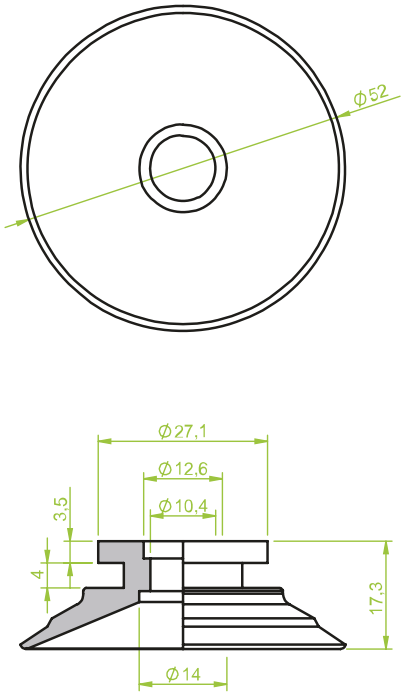
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.052.123._

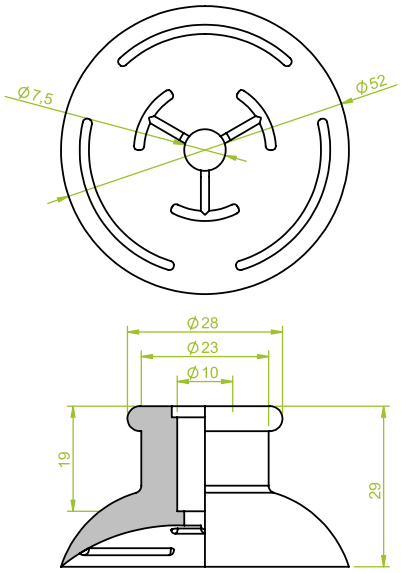


Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.097	1/4" AG
130.098	1/4" IG
130.137	1/8" IG
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG
130.628	M8 AG

6.5mm	10.6g

10.052.491._

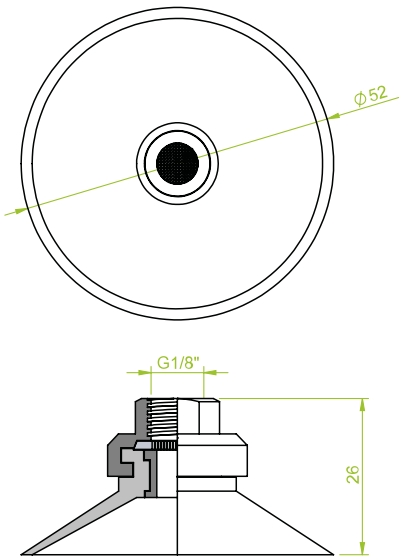


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG

6mm	14.7g

11.052.014._

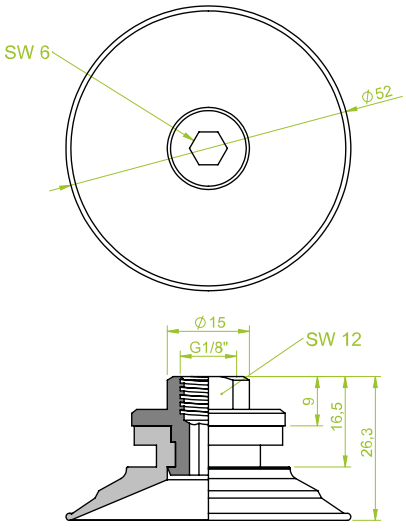


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

6.5mm	23.8g

11.052.023._



Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

6.5mm	28.8g

Morali Produktionstechnik GmbH
Handling technology

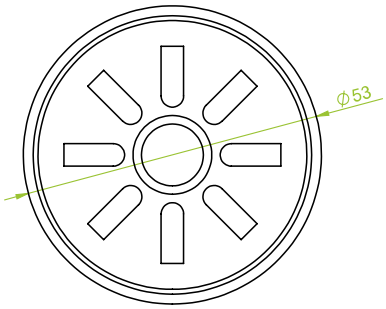
Stadtweg 30
D-78658 Zimmern o.R.

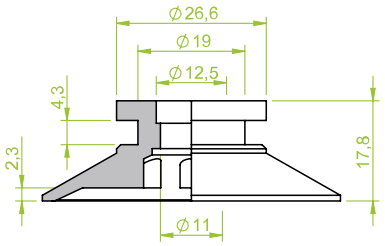
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.053.100._



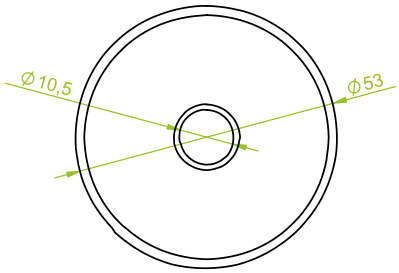


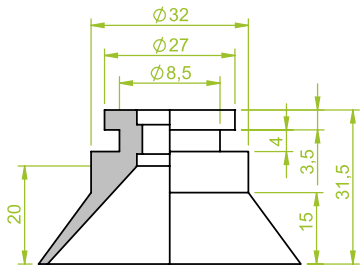
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.097	1/4" AG
130.098	1/4" IG
130.137	1/8" IG
130.234	1/8" IG
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG

2.5mm	12.4g

10.053.128._



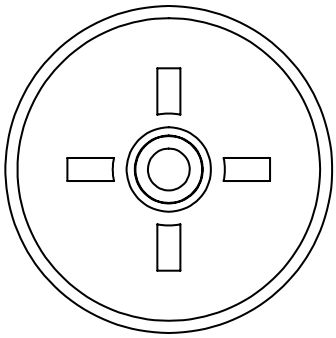


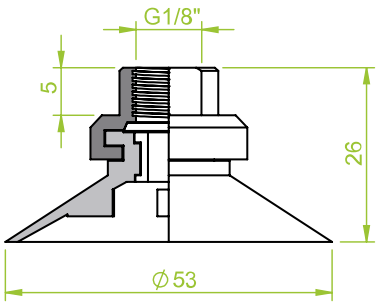
Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.137	1/8" IG
130.294	1/4" AG
130.296	3/8" AG

6mm	15.4g

11.053.008._



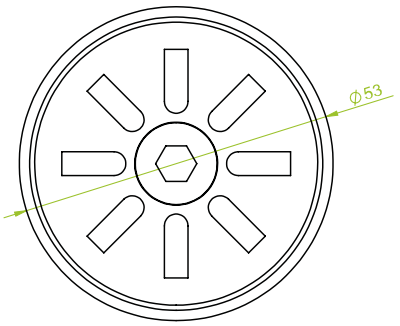


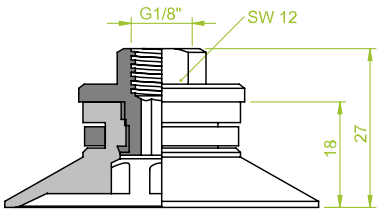
Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	24g

11.053.019._





Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	20.7g

MORALI VACTEC SYSTEMS

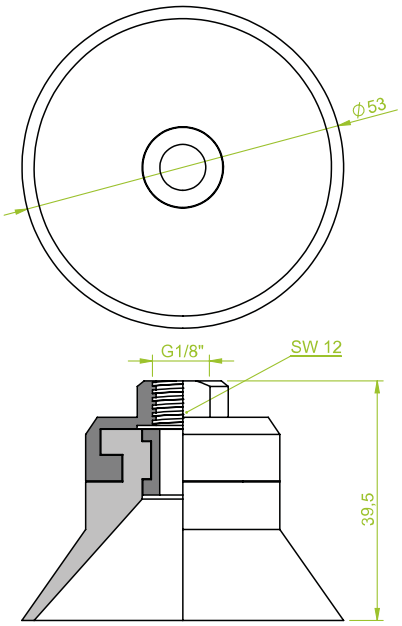
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

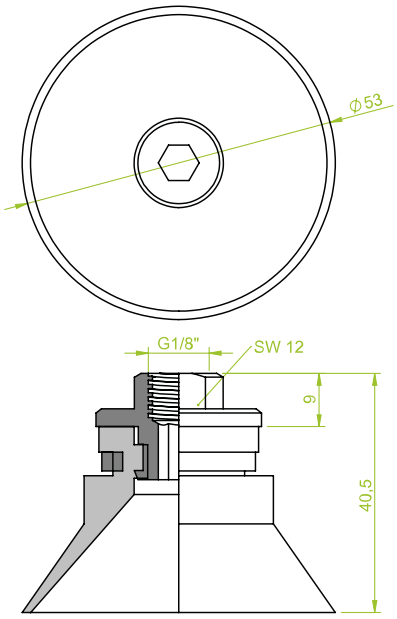
11.053.027._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	29g

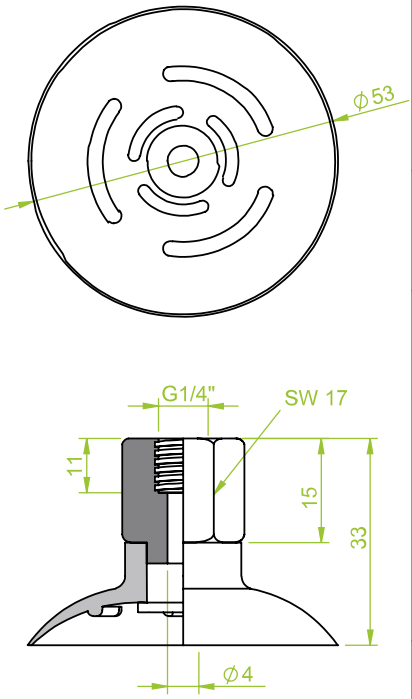
11.053.030._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	19g

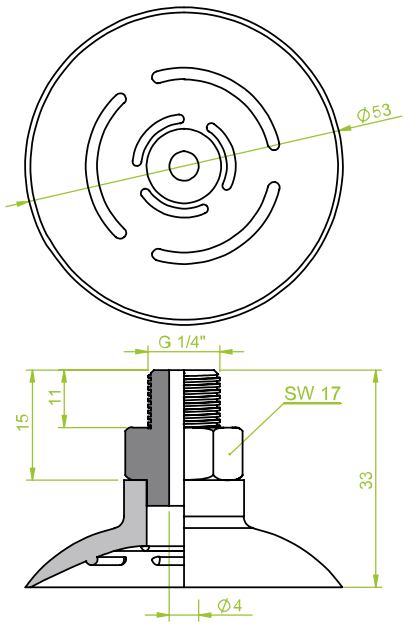
13.053.012._ vulkanisiert



Materialcode
03 NR 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
3mm	23g

14.053.003._ vulkanisiert



Materialcode
03 NR 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
3mm	19.6g

Morali Produktionstechnik GmbH
Handling technology

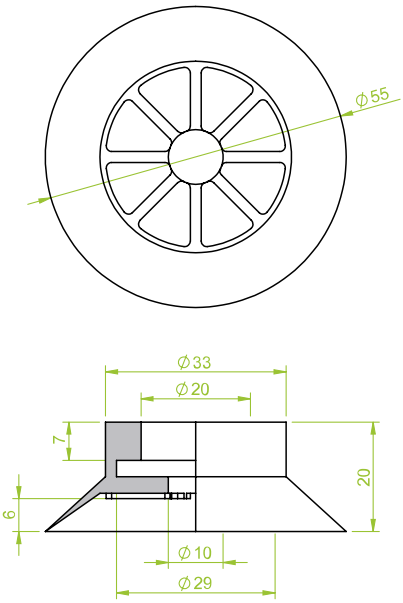
Stadtweg 30
D-78658 Zimmern o.R.

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

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

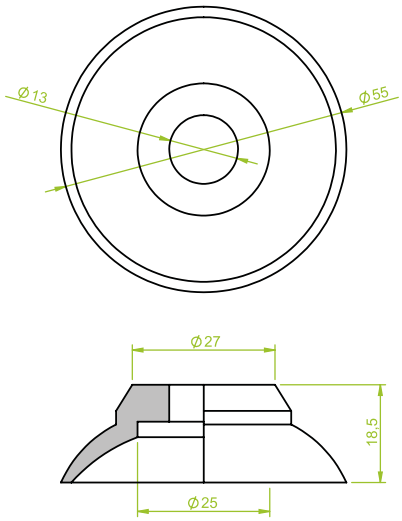
Flachsauger I *Flat cups*

10.055.493._



Materialcode		
Halter *Fitting*	Gewinde *Thread*	
6mm	10g	

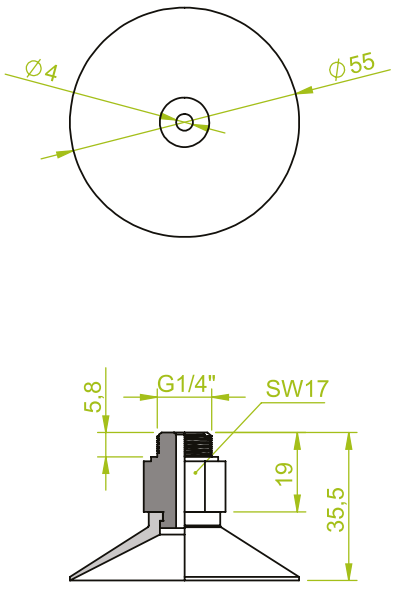
10.055.494._



Materialcode		
03 NR 05 Polyurethan		
Halter *Fitting*	Gewinde *Thread*	
130.184	1/4" AG	
6mm	12.5g	

14.055.046._

vulkanisiert



Materialcode		
05 Polyurethan 02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
3.5mm	0g	

10.056.501._

Materialcode		
03 NR 02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
25mm	10.2g	

MORALI VACTEC SYSTEMS

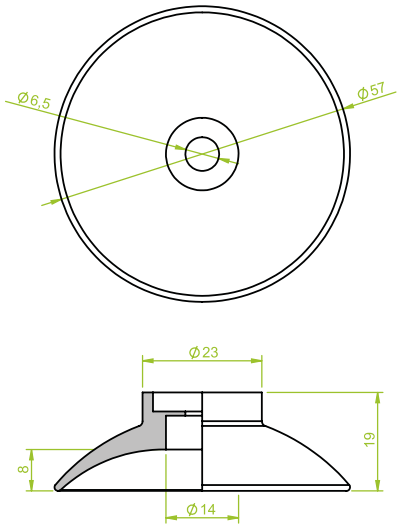
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.057.502._

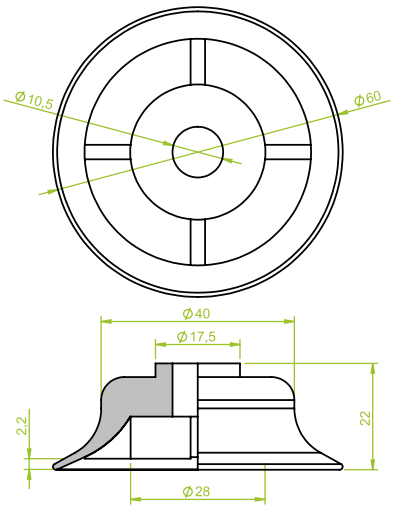


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

6mm	13.2g

10.060.053._

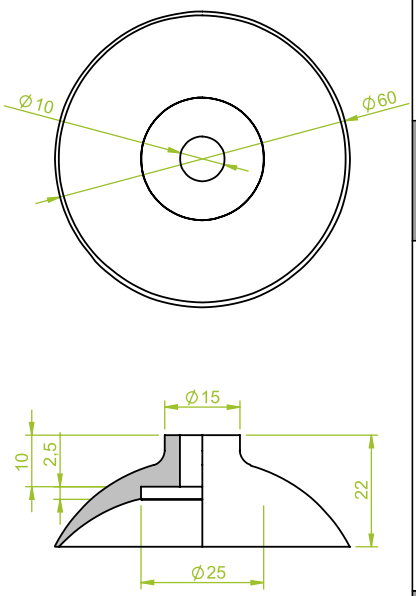


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.176	1/4" AG

2.5mm	21g

10.060.085._

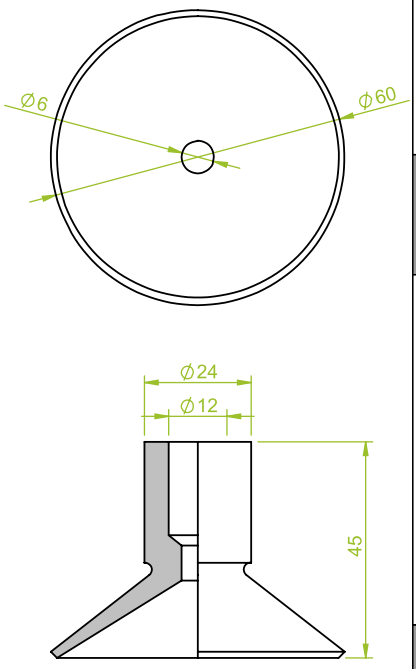


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.176 130.184	1/4" AG 1/4" AG

9mm	15.2g

10.060.359._



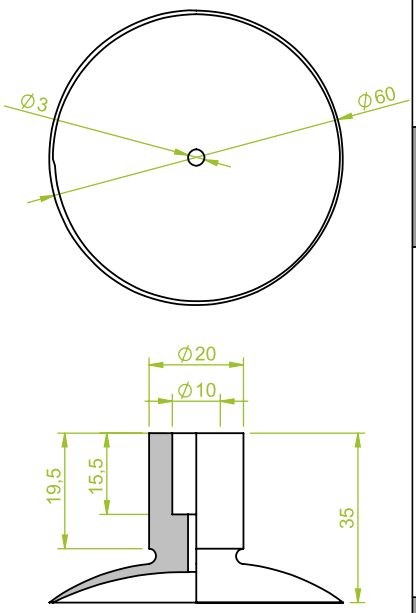
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

10mm	22.6g

Flachsauger I *Flat cups*

10.060.503._

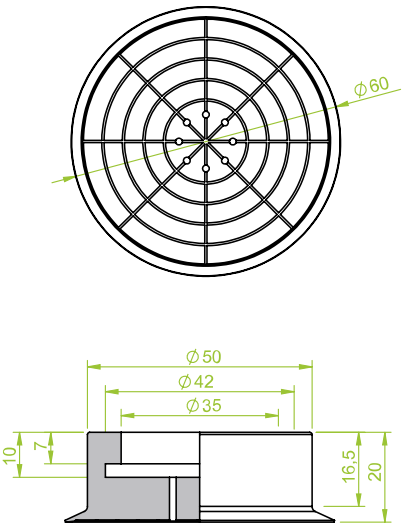


Materialcode
03 NR 02 Silikon V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177 130.193	M10 AG 1/4" AG

5mm	19.1g

10.060.628._



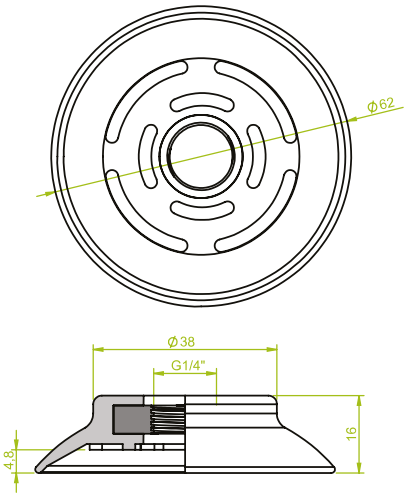
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.528	1/4" IG

0.25mm	30.7g

13.060.006._

vulkanisiert

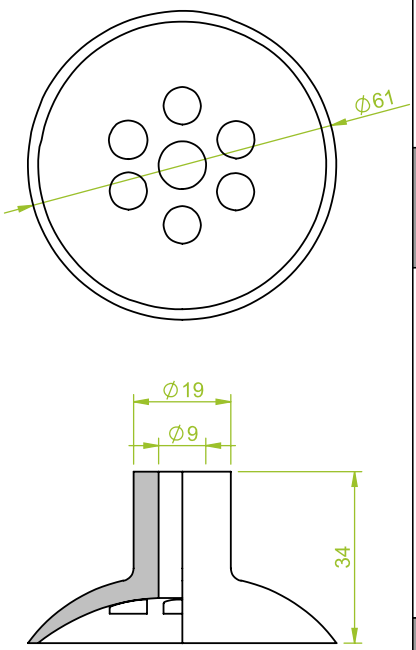


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.090 130.176 130.191	1/4" AG 1/4" AG 1/4" AG

5mm	15.2g

10.061.480._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.208	1/4" AG

mm	0g

MORALI VACTEC SYSTEMS

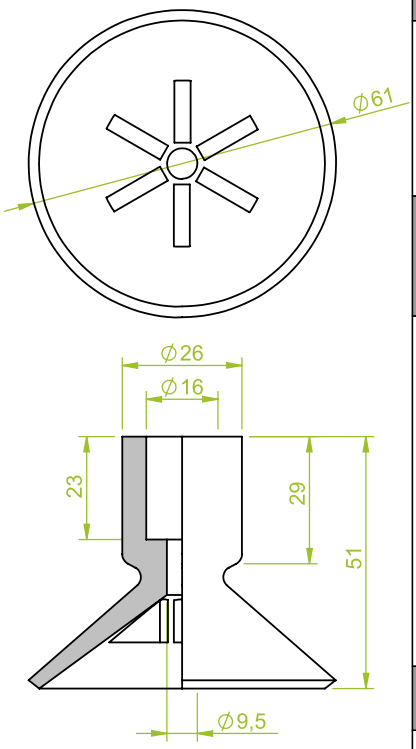
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.061.508._

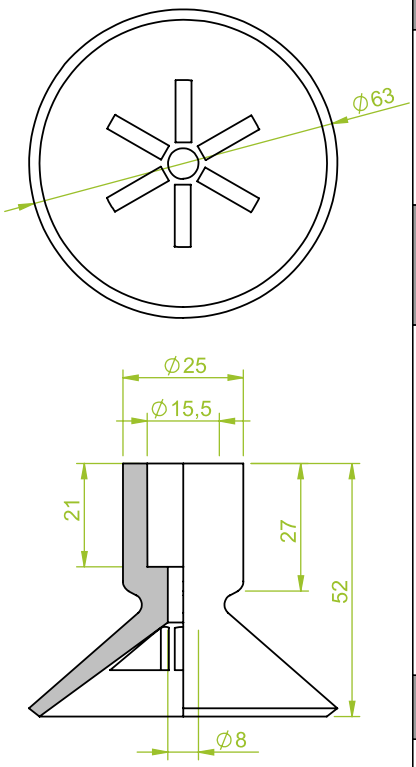


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.116	1/4" IG

2.5mm	22g

10.063.509._

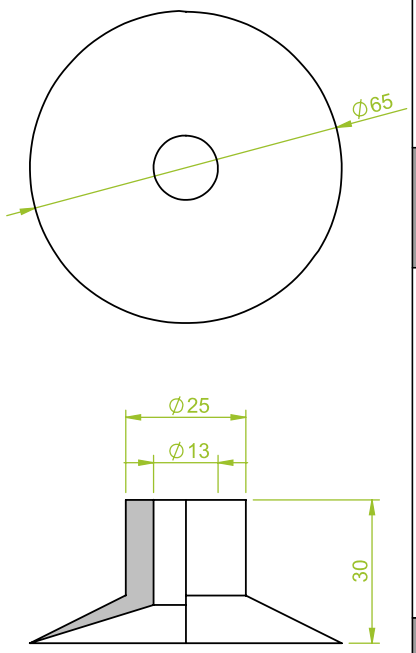


Materialcode
04 CR

Halter *Fitting*	Gewinde *Thread*
130.116	1/4" IG

6.5mm	24g

10.065.161._

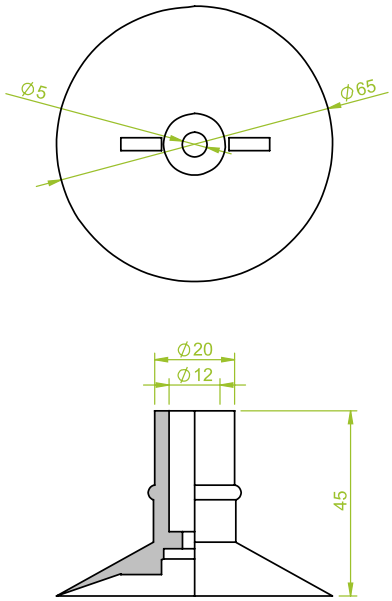


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

5mm	17g

10.065.477._



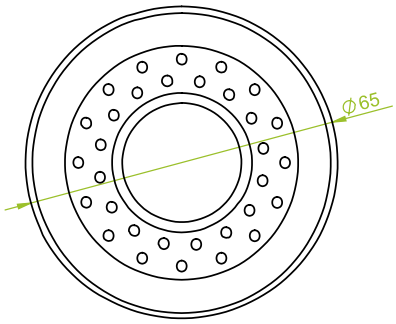
Materialcode
03 NR 02 Silikon

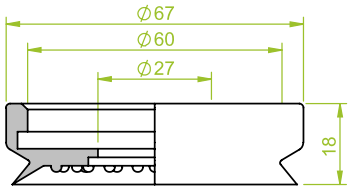
Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

3mm	17g

Flachsauger I *Flat cups*

10.065.496._



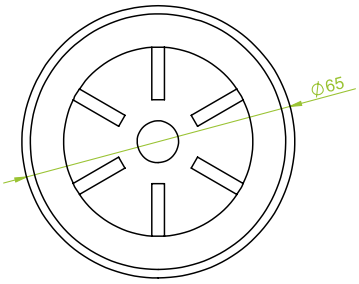


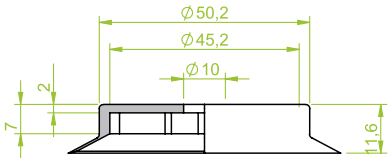
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.263 130.264	M12 IG 1/4" IG

3mm	21g

10.065.670._



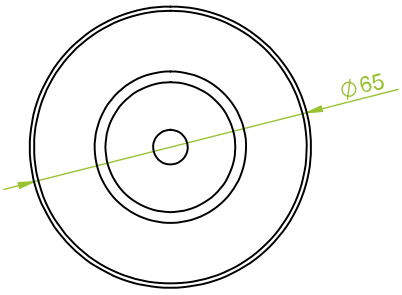


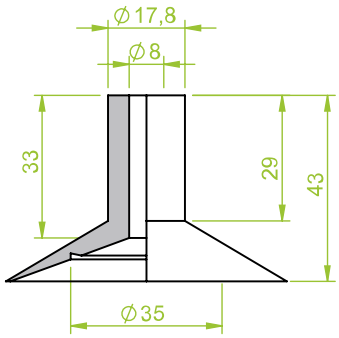
Materialcode

Halter *Fitting*	Gewinde *Thread*

5mm	9.5g

10.065.687._



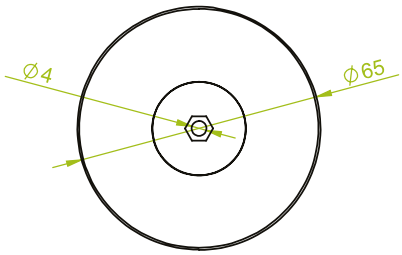


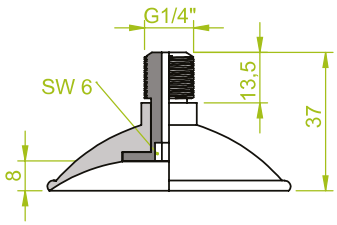
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

8mm	17.3g

12.065.001._





Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	50g

MORALI VACTEC SYSTEMS

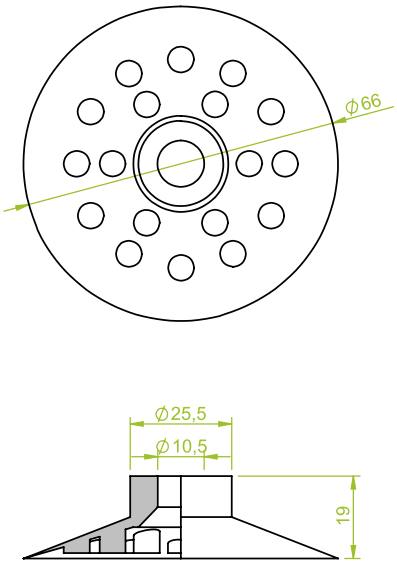
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.066.517._

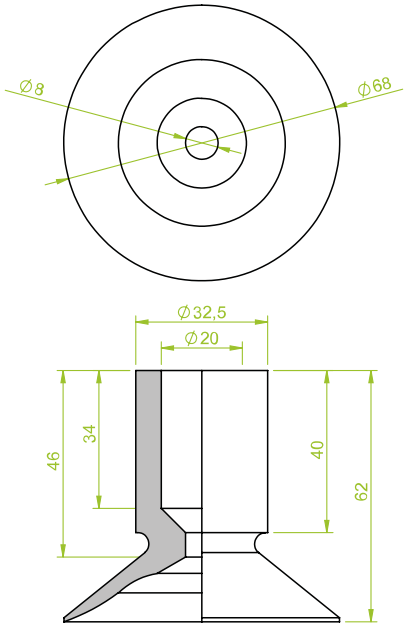


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.020	1/8" IG
130.256	M8 AG
130.451	1/4" AG
130.452	1/4" IG

0.5mm	15g

10.068.520._

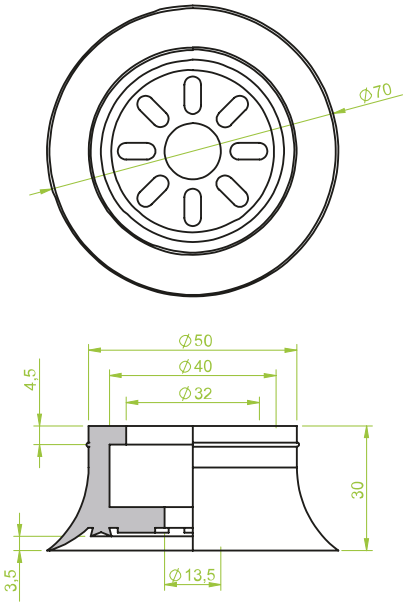


Materialcode

Halter *Fitting*	Gewinde *Thread*

10mm	40.8g

10.070.023._

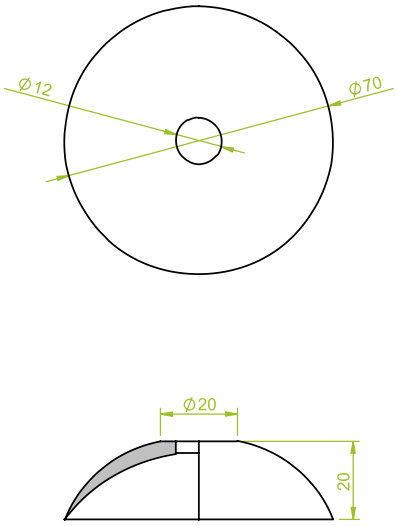


Materialcode
03 NR 10 S BR 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.179	1/4" IG

6mm	32g

10.070.521._



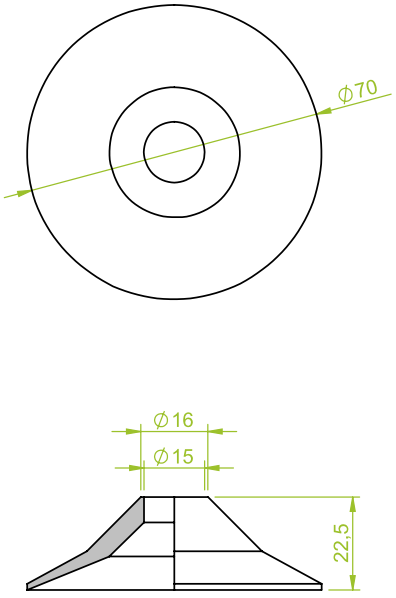
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

12mm	20g

Flachsauger I *Flat cups*

10.070.522._

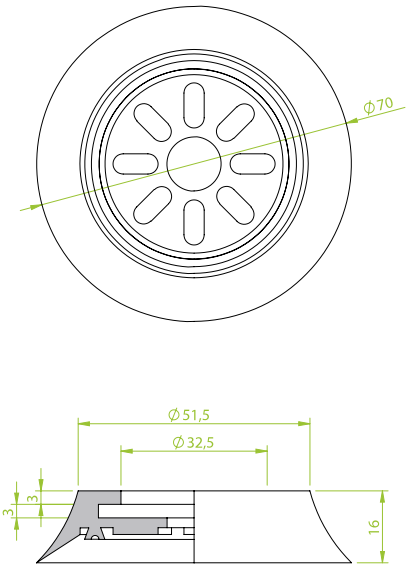


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

6mm	10g

10.070.680._



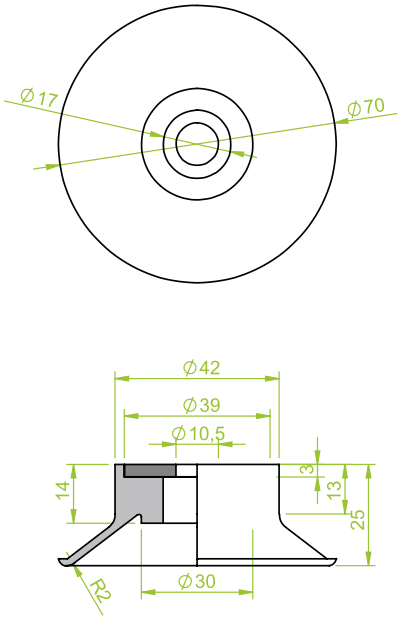
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.528	1/4" IG

6mm	10g

15.070.024._

vulkanisiert

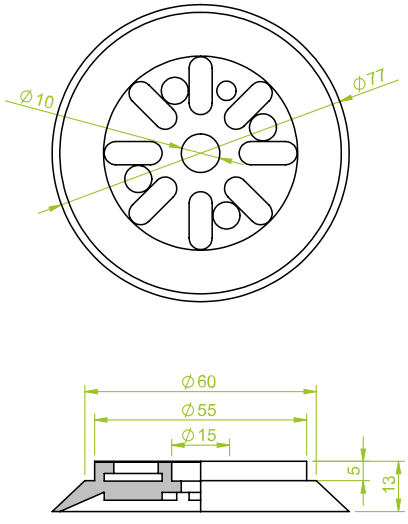


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

10mm	50g

10.075.117._

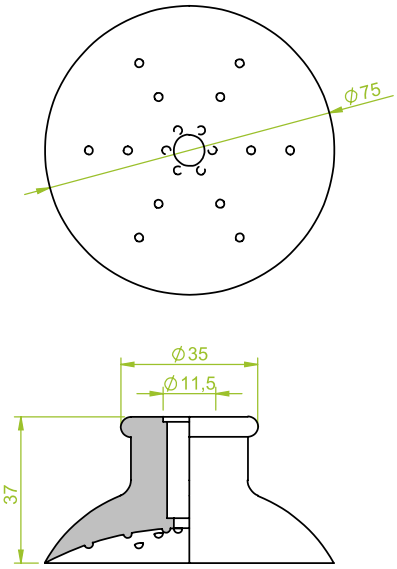


Materialcode
04 CR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.138	1/8" IG

2mm	24g

10.075.524._

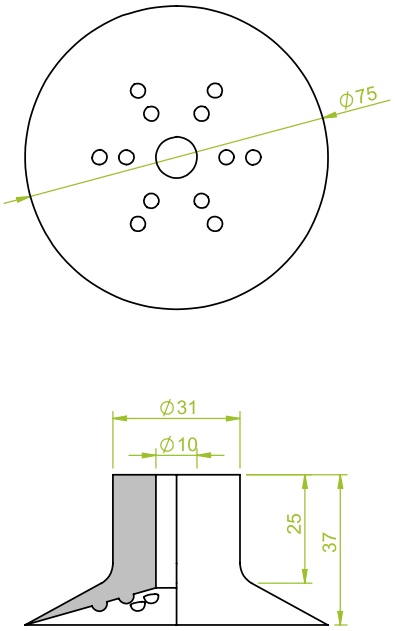


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

3.5mm	36.5g

10.075.525._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

3mm	38g

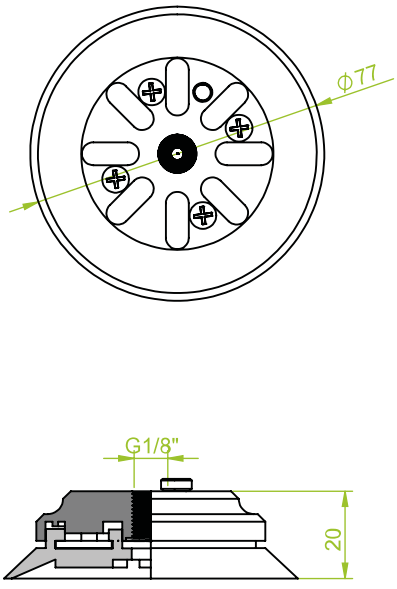
10.075.711._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.5mm	24g

11.075.009._



Materialcode
04 CR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	92g

Morali Produktionstechnik GmbH
Handling technology

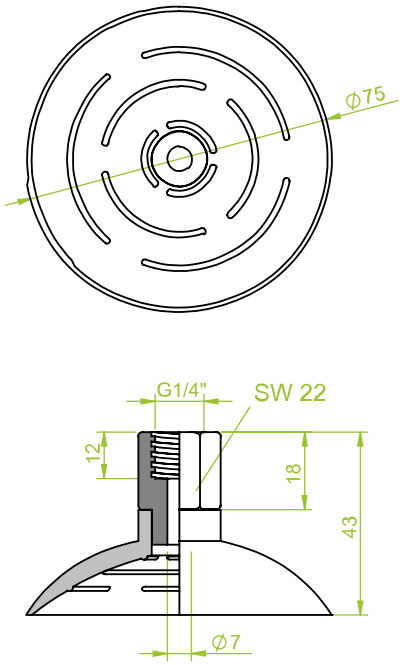
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

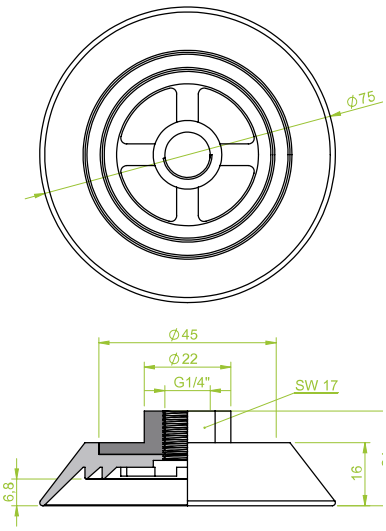
13.075.013._ vulkanisiert



Materialcode
03 NR 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
4mm	97.5g

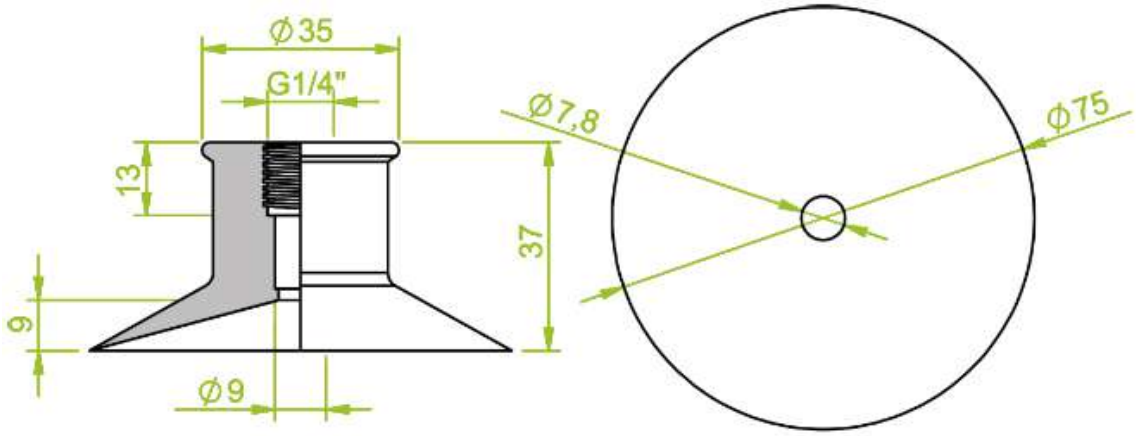
13.075.017._ vulkanisiert



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
6mm	44g

13.075.066._ vulkanisiert



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
3mm	35g

MORALI VACTEC SYSTEMS

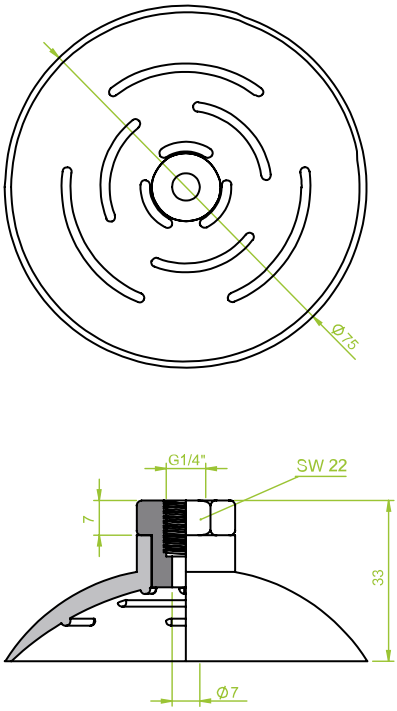
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

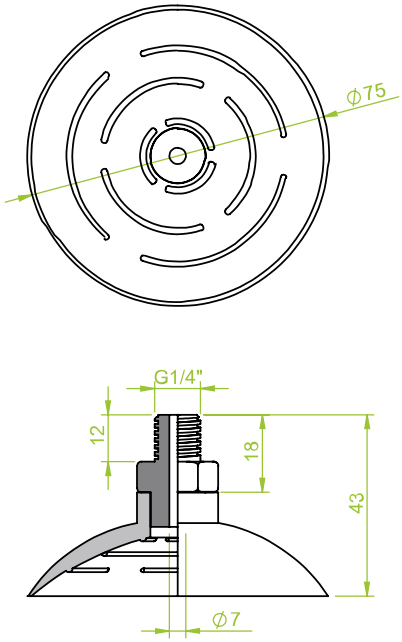
Email: info@morali-gmbh.de
www.morali-gmbh.de

13.075.069._ vulkanisiert



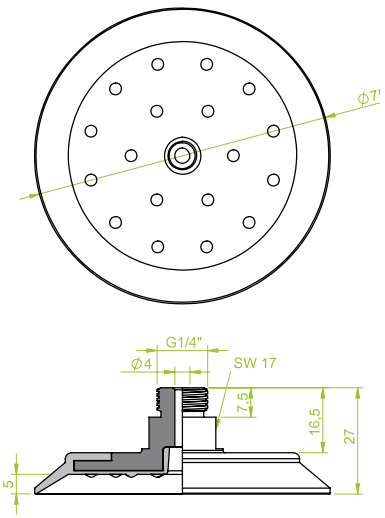
Materialcode		
	Halter *Fitting*	Gewinde *Thread*
	4mm	44.5g

14.075.004._ vulkanisiert



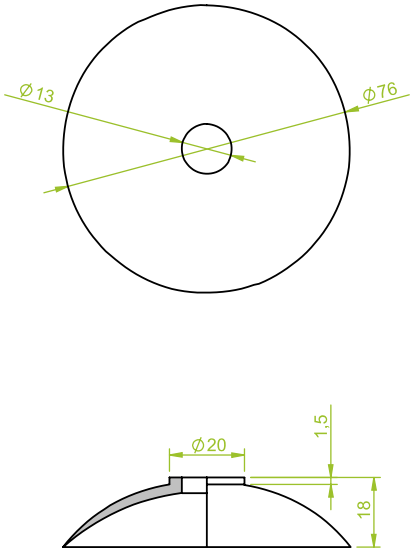
Materialcode		
03 NR 12 verstärktes Silikon		
	Halter *Fitting*	Gewinde *Thread*
	4mm	77.4g

14.075.047._ vulkanisiert



Materialcode		
05 Polyurethan 02 Silikon		
	Halter *Fitting*	Gewinde *Thread*
	3.5mm	43.2g

10.076.526._



Materialcode		
V Vinyl		
	Halter *Fitting*	Gewinde *Thread*
	130.184	1/4" AG
	9mm	25g

Morali Produktionstechnik GmbH
Handling technology

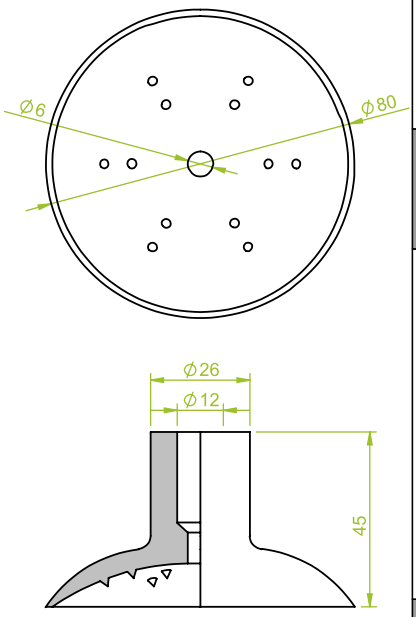
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.080.392._

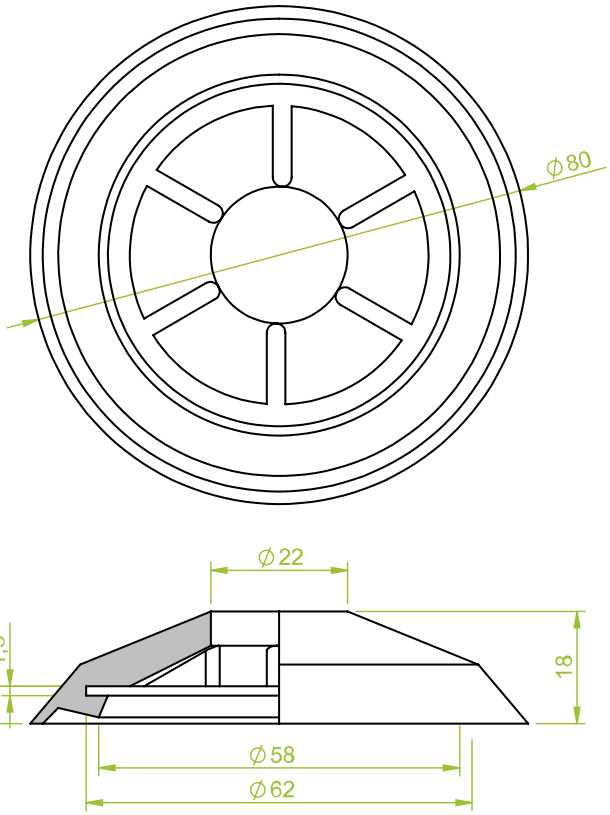


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

9mm	50g

10.080.531._

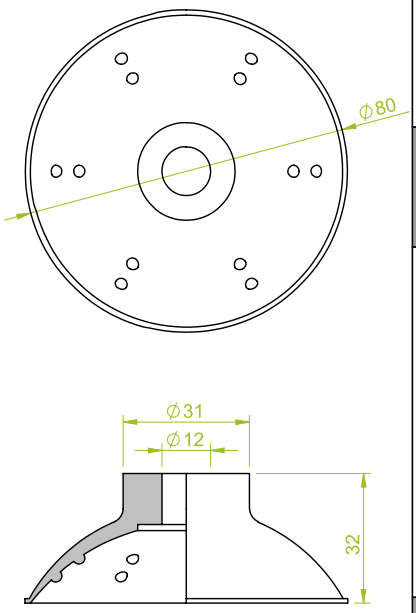


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.390	1/4" AG

7mm	30g

10.080.532._

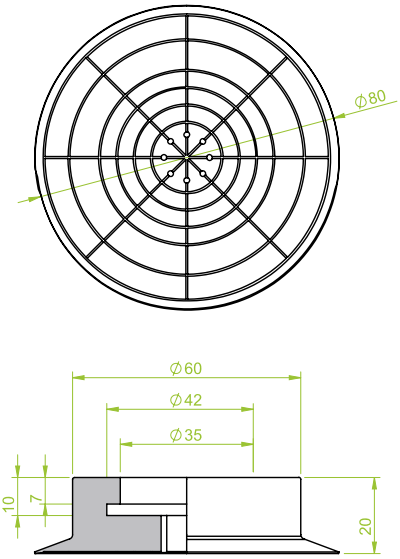


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.042	1/4" AG

11mm	53g

10.080.629._

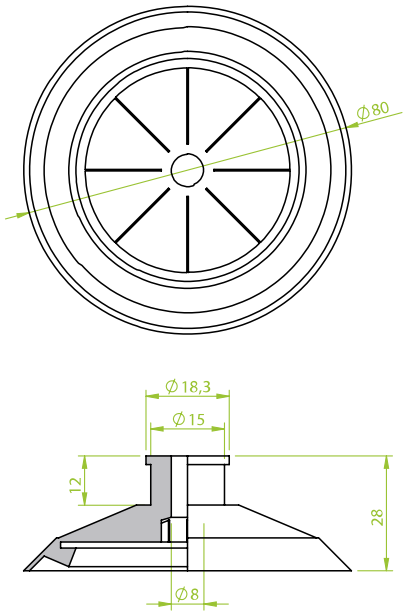


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.528	1/4" IG

0.25mm	32.8g

10.080.669._



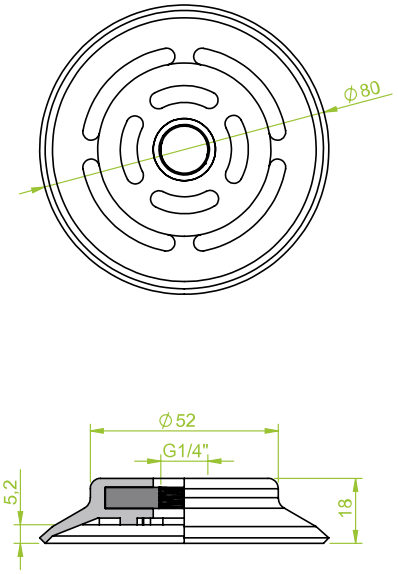
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG

8mm	22.8g

13.080.007._

vulkanisiert



Materialcode
07 FKM 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.090	1/4" AG

6mm	52.8g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

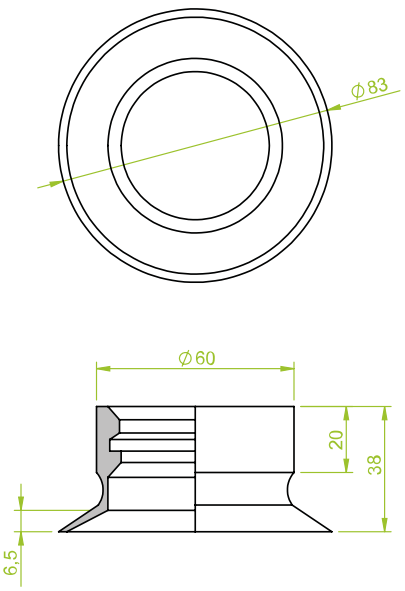
Flachsauger I *Flat cups*

10.080.0361._

Materialcode
VU VU

Halter *Fitting*	Gewinde *Thread*
mm	0g

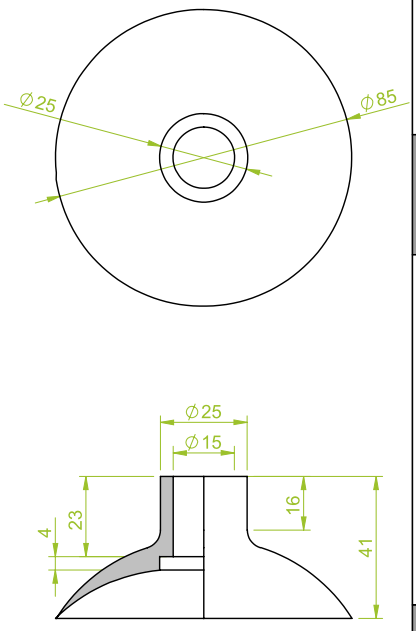
10.083.334._



Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
1mm	32.8g

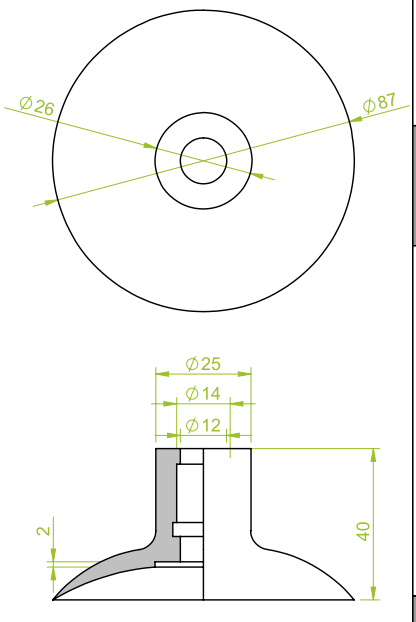
10.085.086._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.216	1/4" AG
12mm	33g

10.087.538._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049 130.207	1/4" AG 1/4" AG
9mm	35g

MORALI VACTEC SYSTEMS

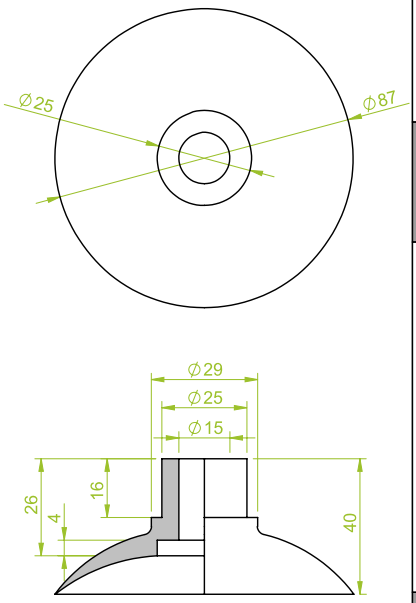
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.087.539._

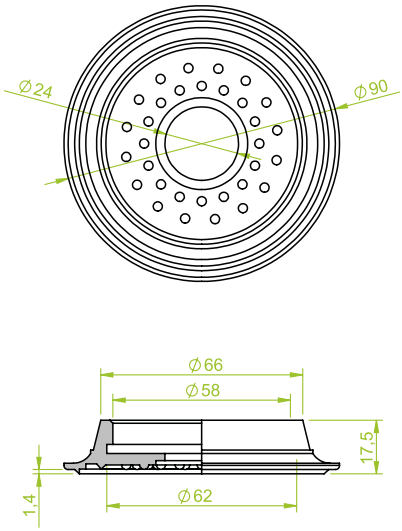


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.216	1/4" AG

11mm	42g

10.090.511._



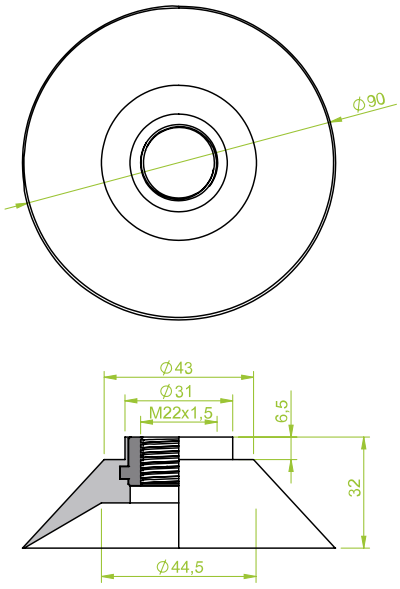
Materialcode

Halter *Fitting*	Gewinde *Thread*
130.158 130.161 130.286 139.264	1/8" IG 3/8" IG 1/2" IG 1/4" IG

0.5mm	34g

13.090.060._

vulkanisiert

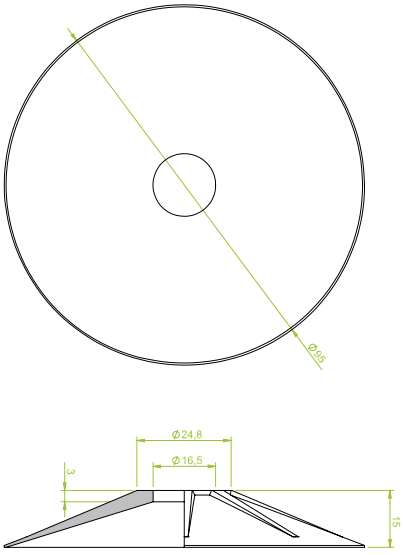


Materialcode

Halter *Fitting*	Gewinde *Thread*

13mm	93g

10.095.540._



Materialcode

Halter *Fitting*	Gewinde *Thread*

0mm	14g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

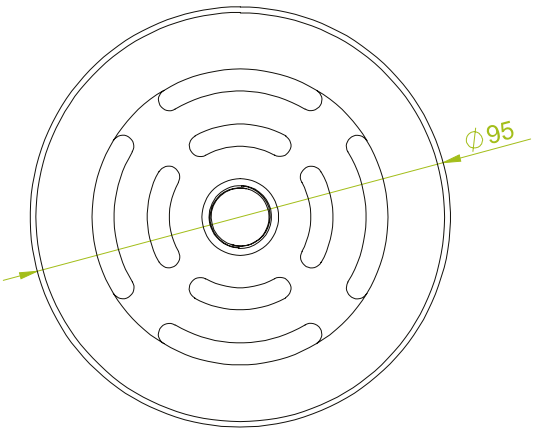
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

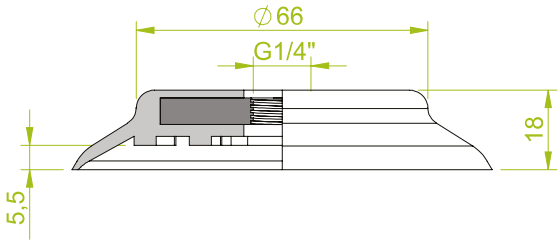
Email: info@morali-gmbh.de
www.morali-gmbh.de

Flachsauger I *Flat cups*

13.095.008._

vulkanisiert





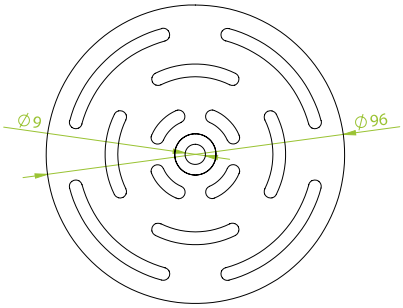
Materialcode
05 Polyurethan 02 Silikon

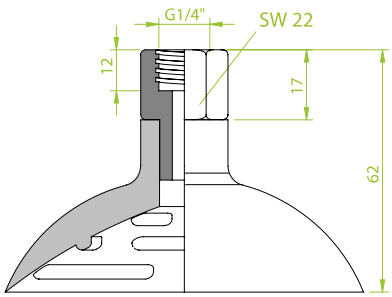
Halter *Fitting*	Gewinde *Thread*
130.090 130.191	1/4" AG 1/4" AG

6mm	92g

13.096.014._

vulkanisiert





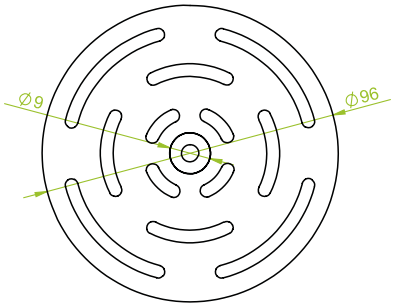
Materialcode
03 NR

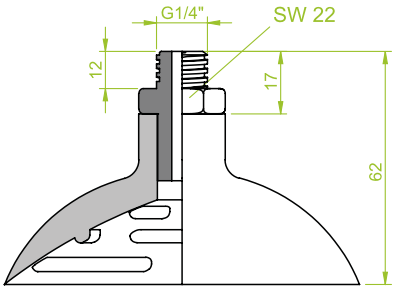
Halter *Fitting*	Gewinde *Thread*

8mm	105g

14.096.005._

vulkanisiert





Materialcode
09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*

8mm	101.3g

MORALI VACTEC SYSTEMS

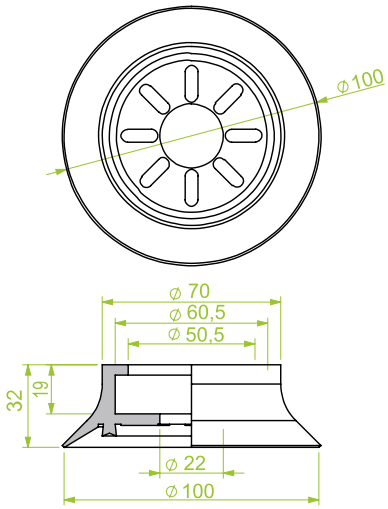
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.100.096._

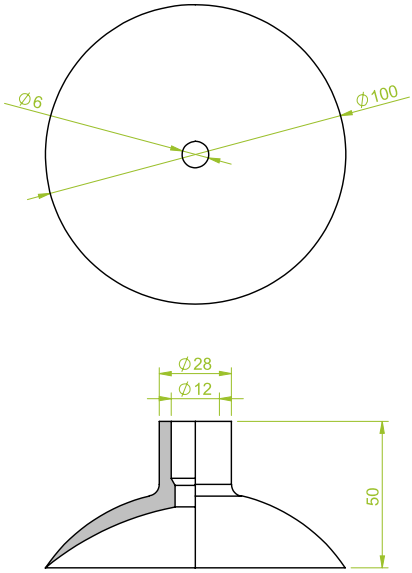


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.180	1/4" IG

5mm	68g

10.100.393._



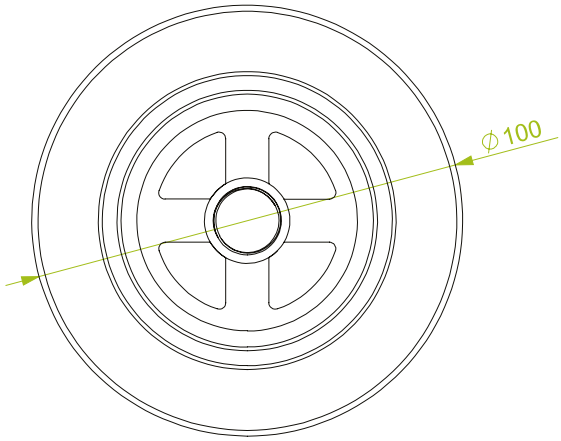
Materialcode
02 Silikon

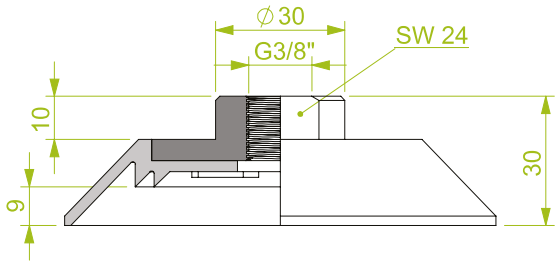
Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

13mm	75g

13.100.018._

vulkanisiert





Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	83g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

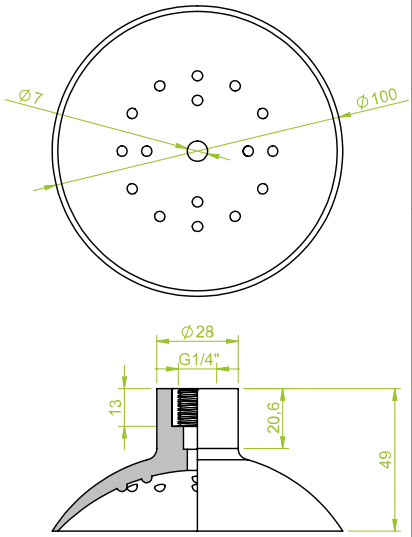
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

13.100.029._

vulkanisiert



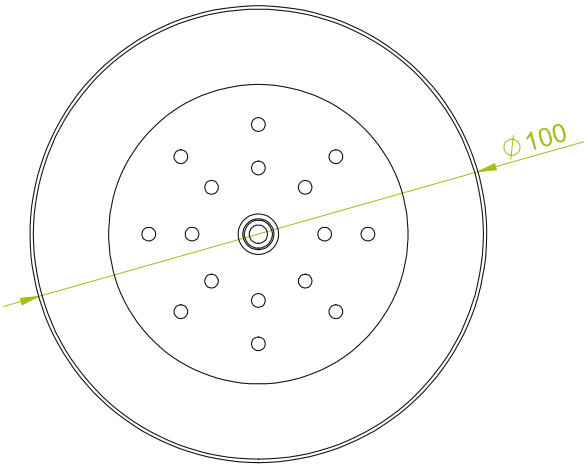
Materialcode
03 NR 02 Silikon

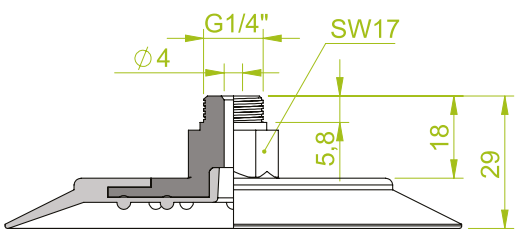
Halter *Fitting*	Gewinde *Thread*

13mm	83g

14.100.048._

vulkanisiert





Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

3.5mm	135g

MORALI VACTEC SYSTEMS

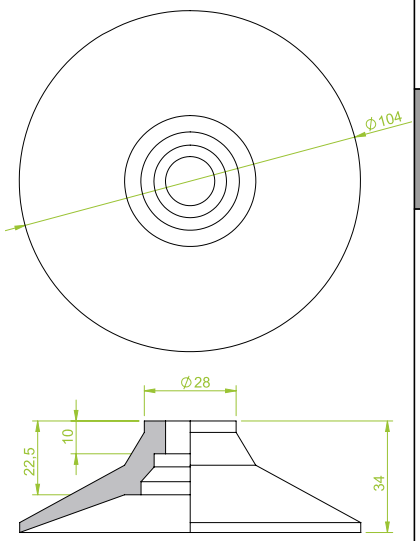
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.104.667._

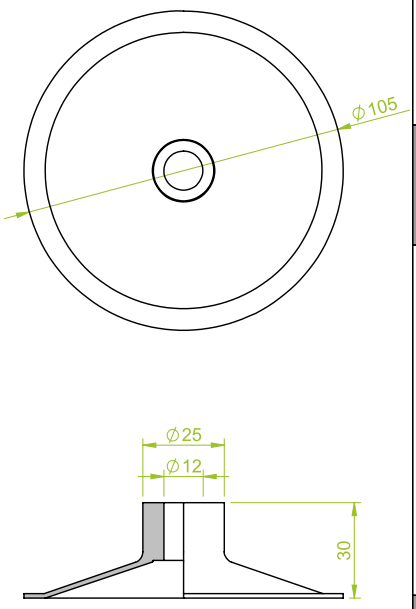


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	61.4g

10.105.549._



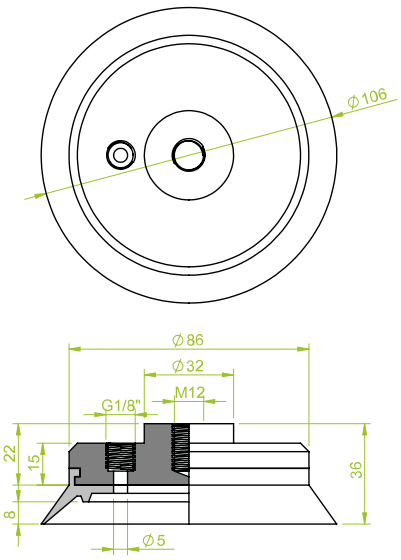
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

8.5mm	27g

13.106.023._

vulkanisiert



Materialcode

Halter *Fitting*	Gewinde *Thread*

8mm	253g

Morali Produktionstechnik GmbH
Handling technology

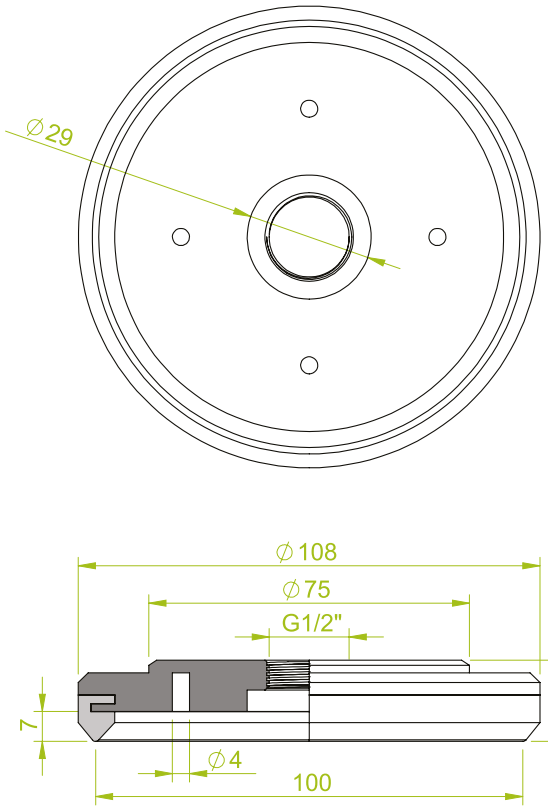
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

11.107.033._

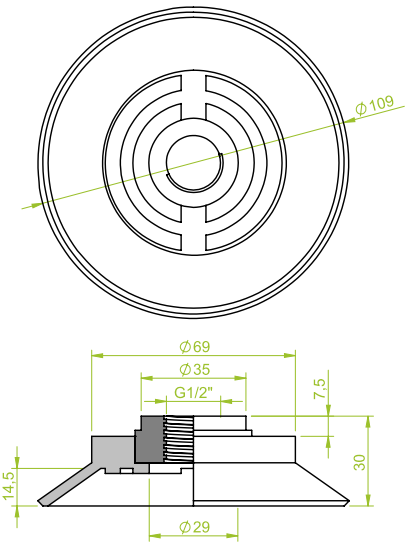


Materialcode
06 EPDM

Halter *Fitting*	Gewinde *Thread*

1mm	245g

13.109.022._ vulkanisiert

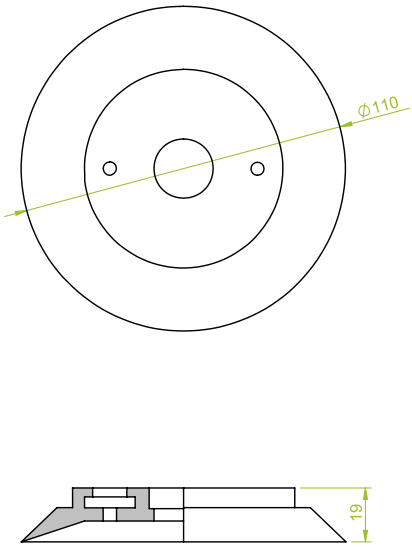


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

8mm	114g

10.110.118._



Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	74g

MORALI VACTEC SYSTEMS

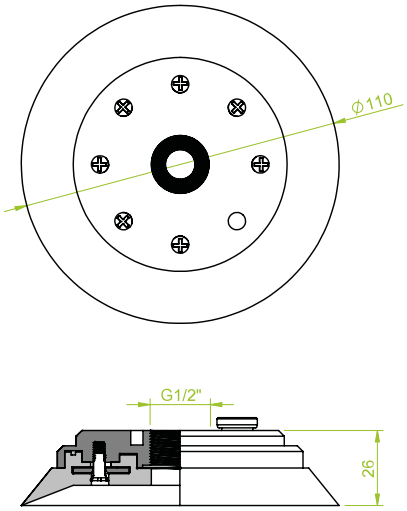
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

11.110.010._

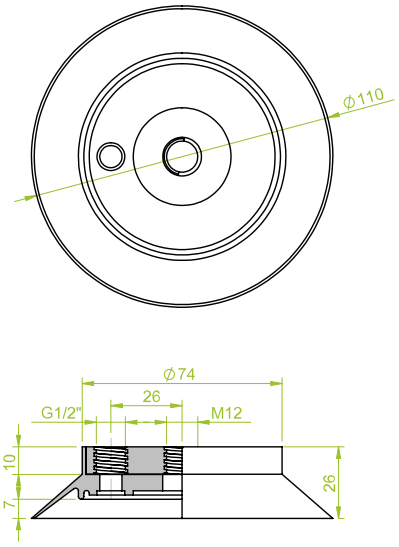


Materialcode
04 CR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	227g

13.110.040._ vulkanisiert

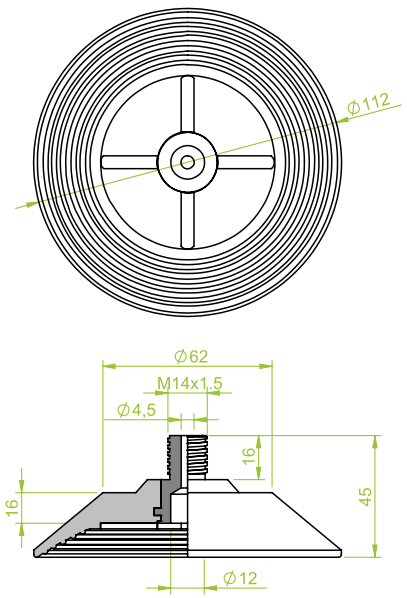


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	330g

14.112.001._ vulkanisiert

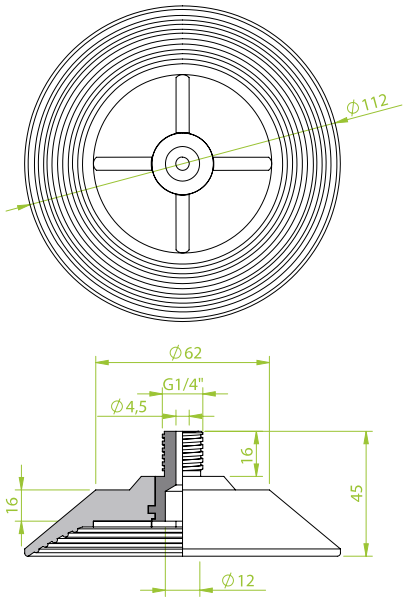


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

11mm	120g

14.112.002._ vulkanisiert



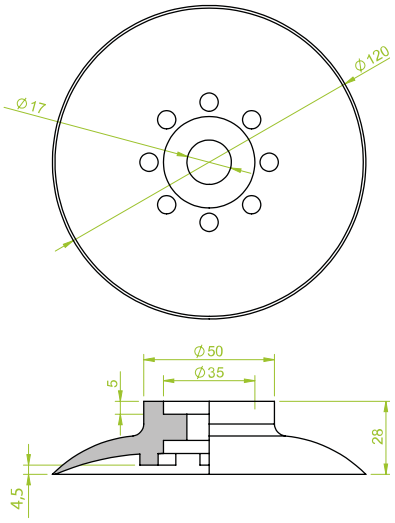
Materialcode

Halter *Fitting*	Gewinde *Thread*

11mm	120g

Flachsauger I *Flat cups*

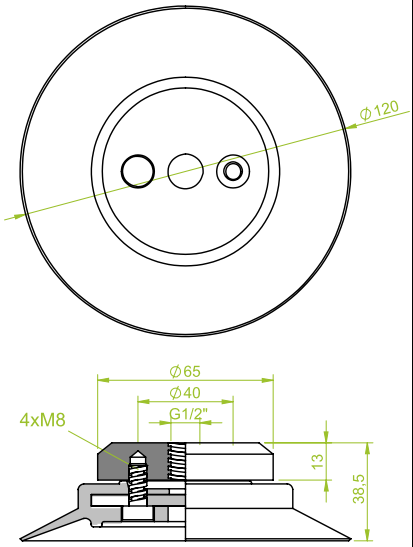
10.120.702._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
3mm	55.4g

11.120.044._

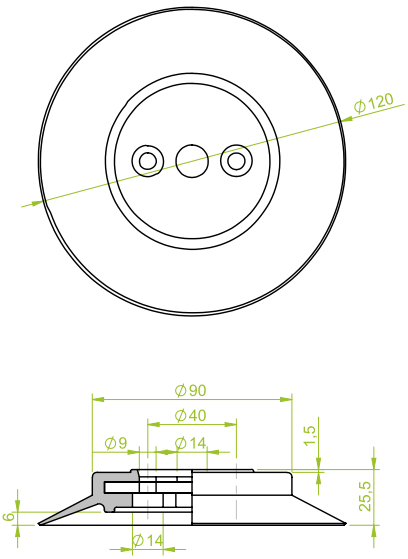


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
5mm	591g

13.120.009._

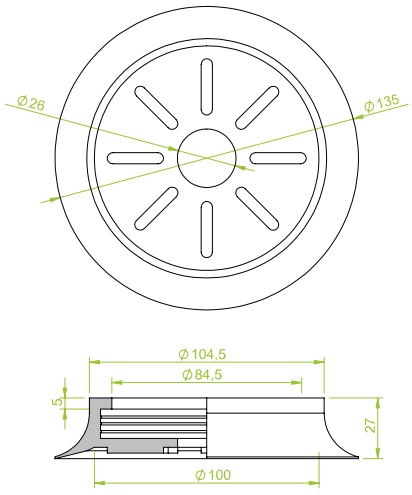
vulkanisiert



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.056	1/2" IG
5mm	250g

10.135.146._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.290	1/2" IG
2.5mm	113g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

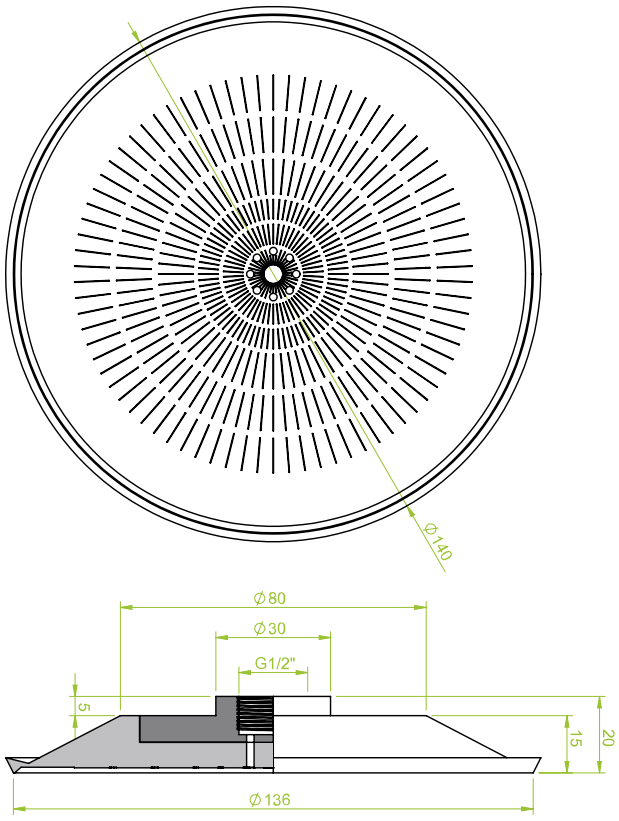
Stadtweg 30
D-78658 Zimmern o.R.

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

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

13.140.064._

vulkanisiert

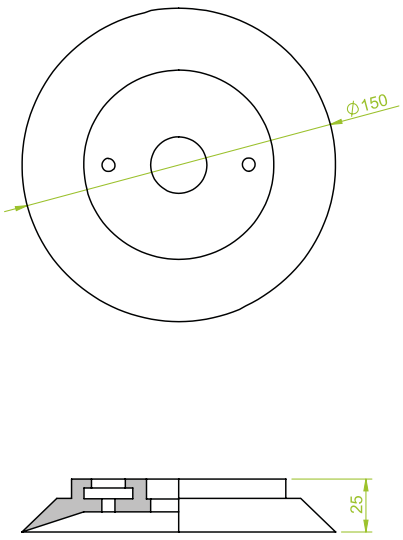


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

1.5mm	175.4g

10.150.119._



Materialcode
04 CR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*

5mm	199g

Morali Produktionstechnik GmbH
Handling technology

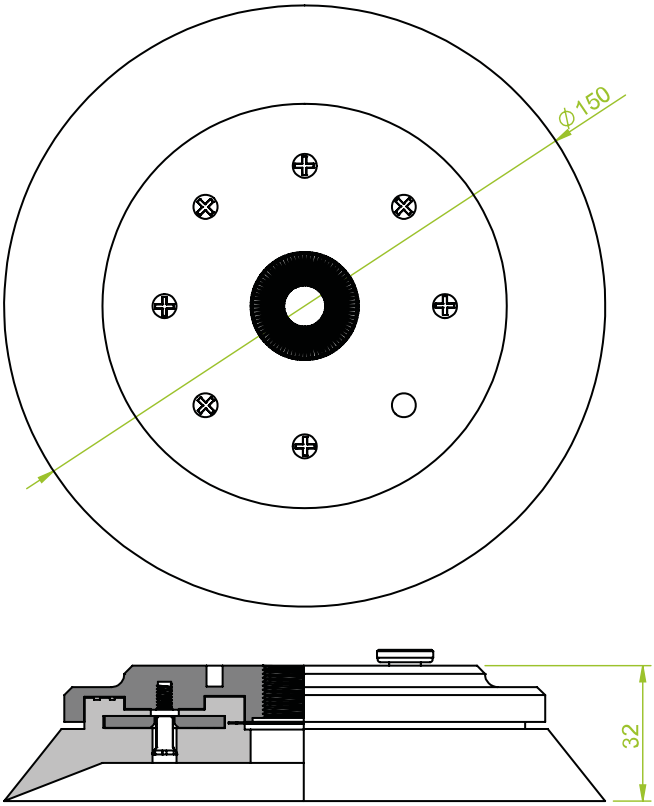
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

11.150.011._

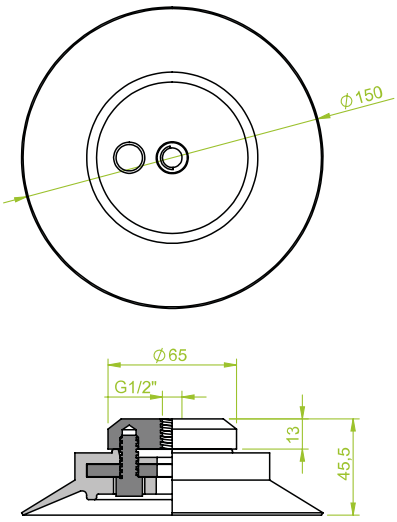


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	518g

11.150.038._



Materialcode

Halter *Fitting*	Gewinde *Thread*

7mm	572g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

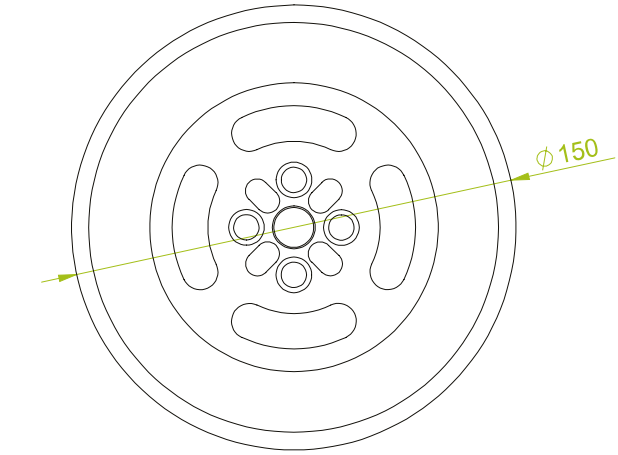
Stadtweg 30
D-78658 Zimmern o.R.

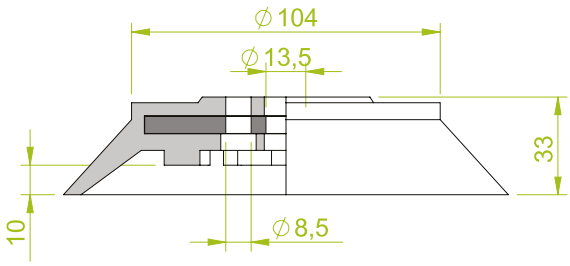
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

13.150.010._

vulkanisiert





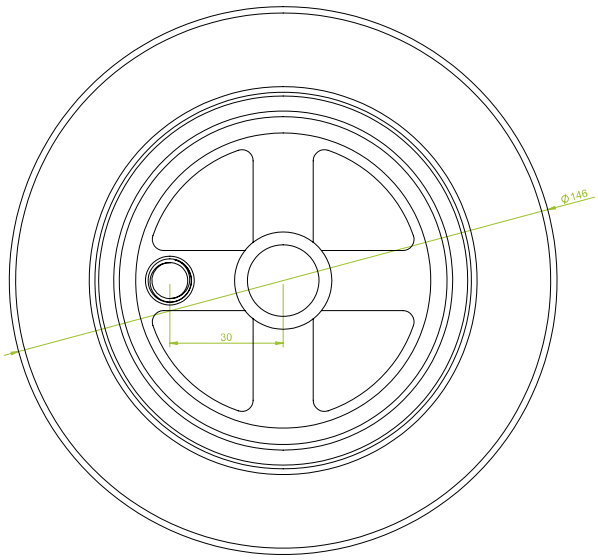
Materialcode
05 Polyurethan 02 Silikon

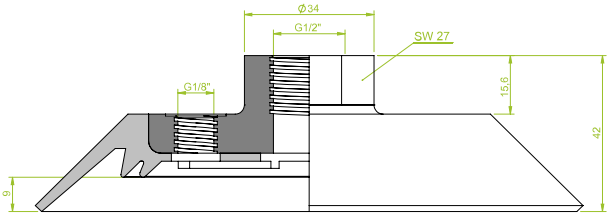
Halter *Fitting*	Gewinde *Thread*
130.056	1/2" IG

7mm	479g

13.150.019._

vulkanisiert





Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	284g

Morali Produktionstechnik GmbH
Handling technology

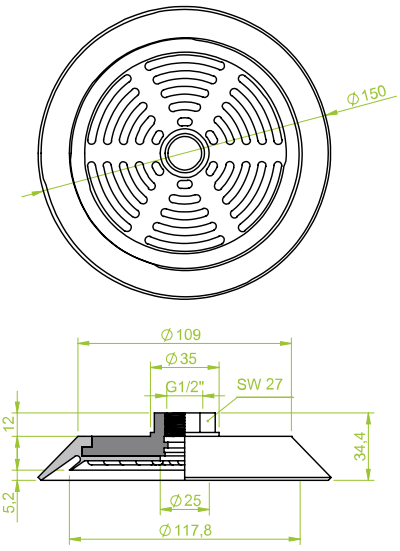
Stadtweg 30
D-78658 Zimmern o.R.

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

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

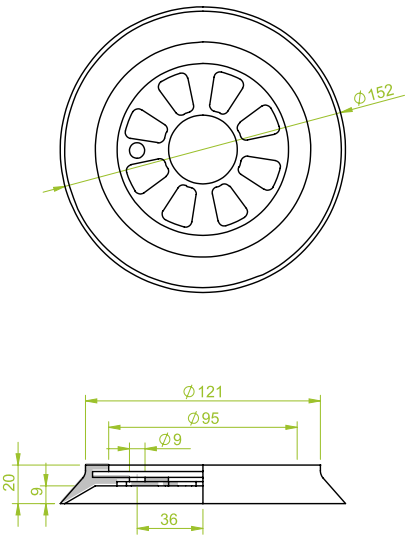
Flachsauger I *Flat cups*

13.150.054._ vulkanisiert



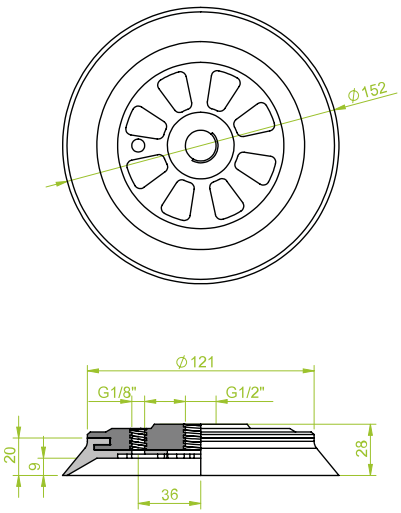
Materialcode	
09 HNBR	
Halter *Fitting*	**Gewinde** *Thread*
5mm	310g

10.152.561._



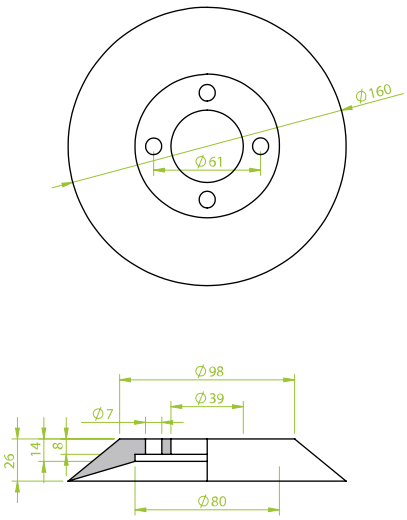
Materialcode	
20 TPU	
Halter *Fitting*	**Gewinde** *Thread*
9mm	99g

11.152.039._



Materialcode	
V Vinyl	
Halter *Fitting*	**Gewinde** *Thread*
9mm	138g

10.160.013._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
4.5mm	211g

MORALI VACTEC SYSTEMS

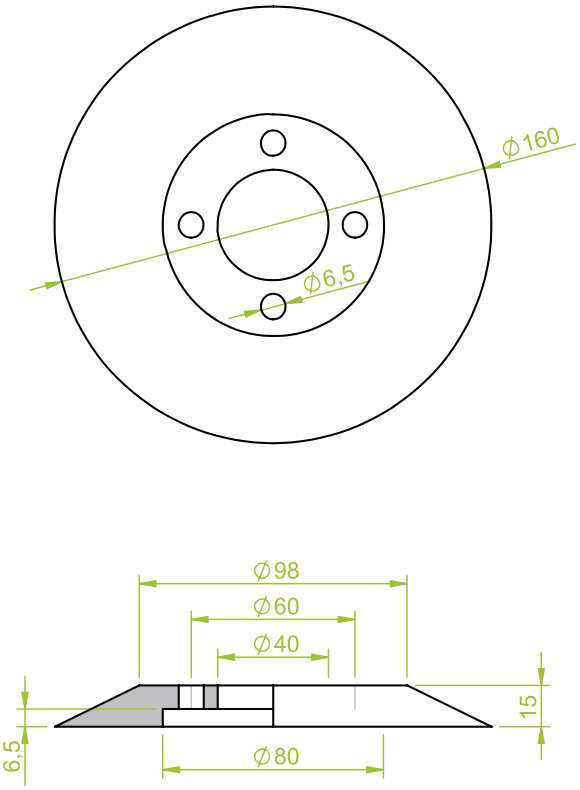
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.160.014._

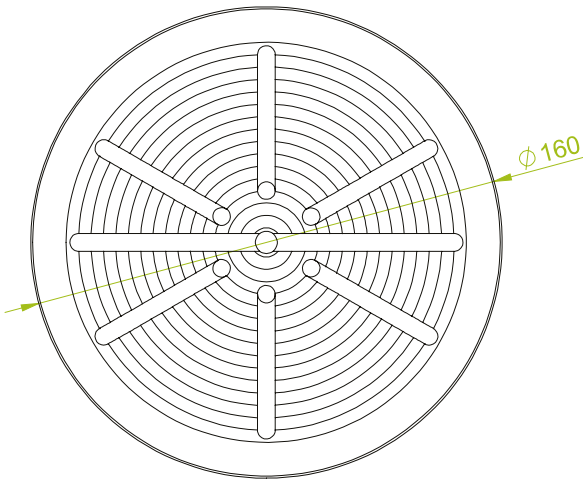


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0mm	180g

10.160.563._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4.7mm	148g

Morali Produktionstechnik GmbH
Handling technology

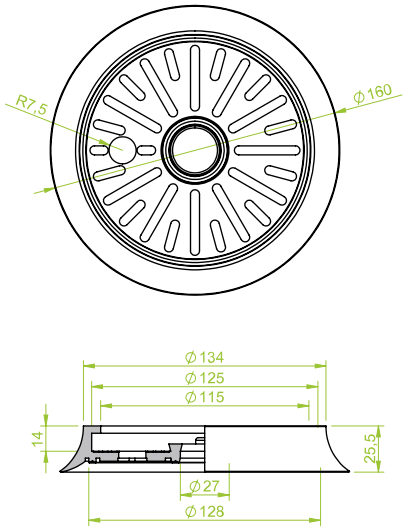
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.160.593._



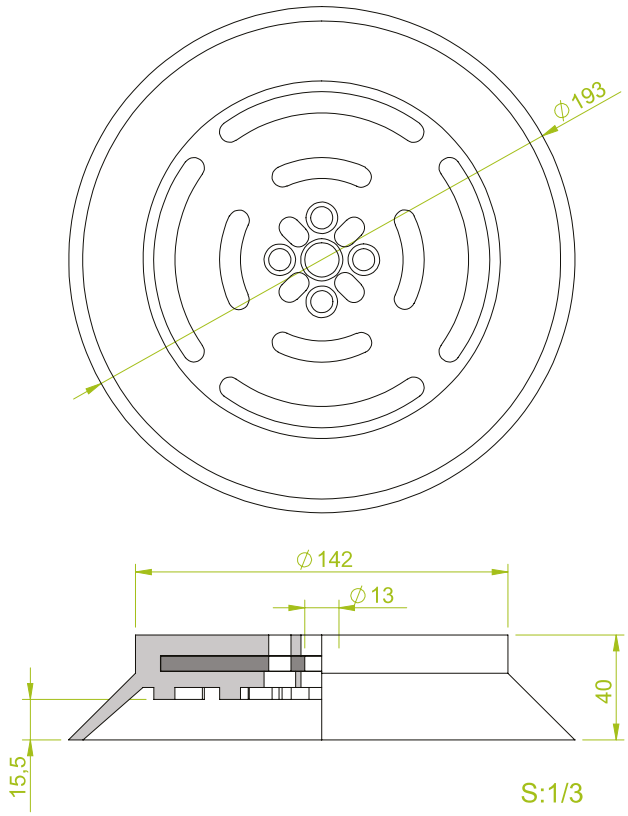
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

7mm	143g

13.191.011._

vulkanisiert



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.056	1/2" IG

12mm	839g

MORALI VACTEC SYSTEMS

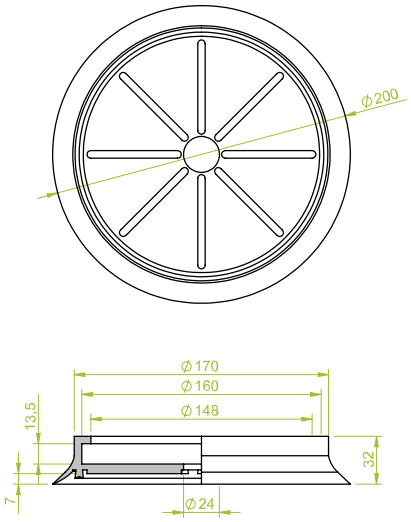
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.200.026._

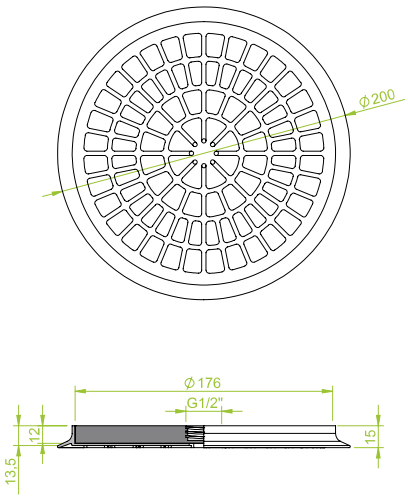


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.335	1/2" IG

5mm	200g

13.200.068._ vulkanisiert

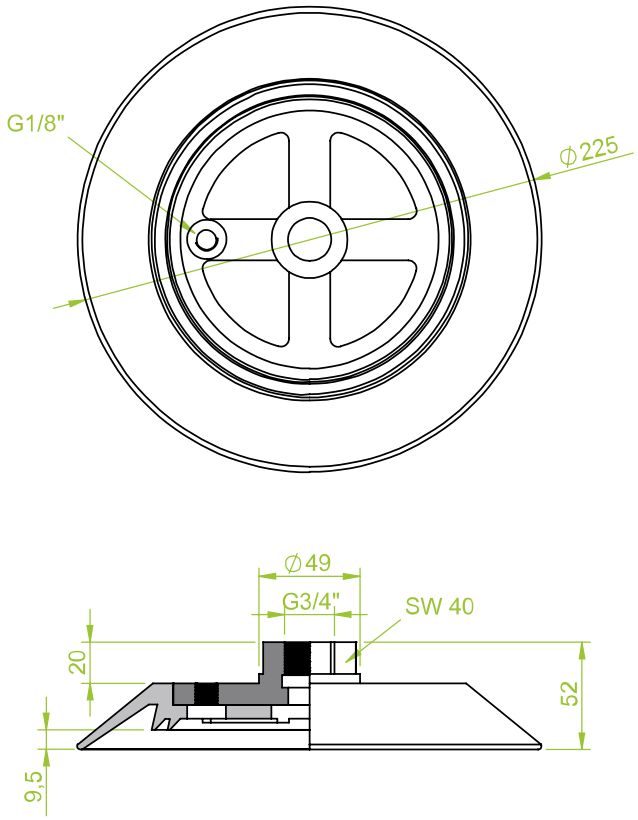


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

1mm	850g

13.225.020._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	840g

Morali Produktionstechnik GmbH
Handling technology

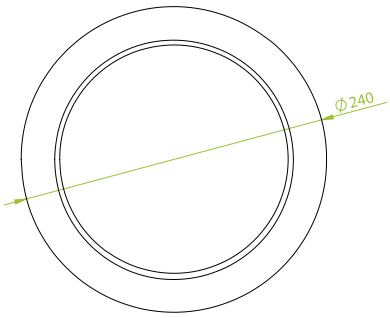
Stadtweg 30
D-78658 Zimmern o.R.

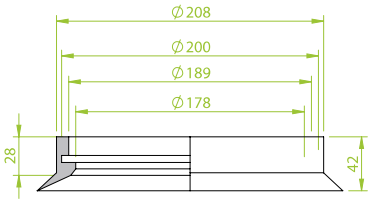
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Flachsauger I *Flat cups*

10.240.607._





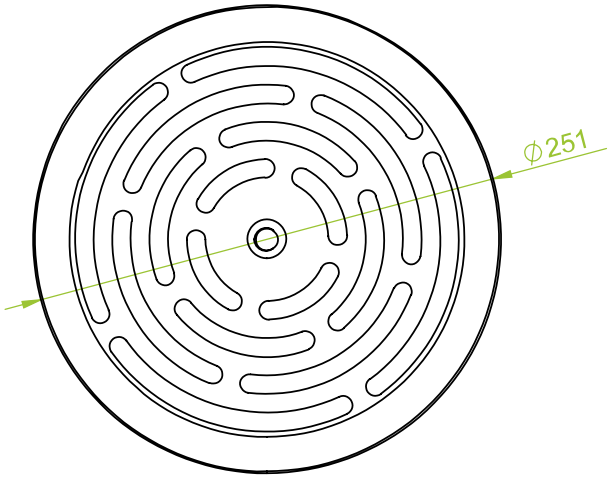
Materialcode
03 NR

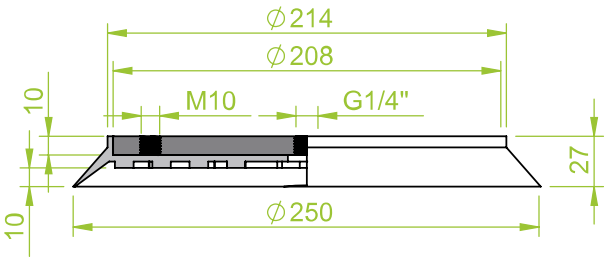
Halter *Fitting*	Gewinde *Thread*

8mm	296.4g

13.252.059._

vulkanisiert





Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

6mm	2168.7g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

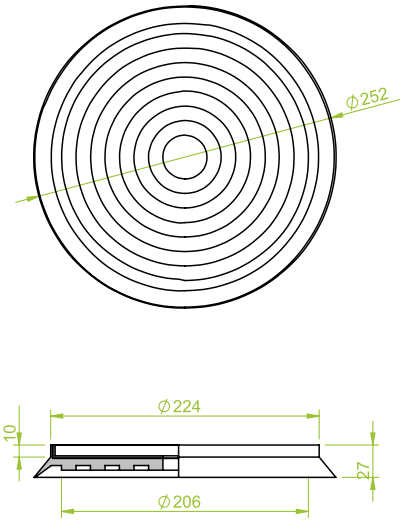
Stadtweg 30
D-78658 Zimmern o.R.

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

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

15.252.038._

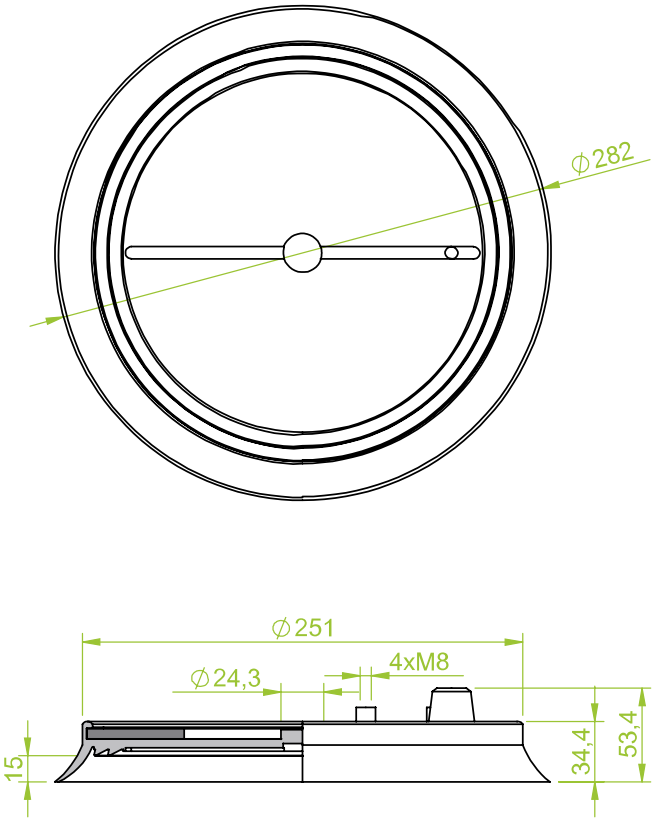
vulkanisiert



Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
mm	0g

13.282.058._

vulkanisiert



Materialcode	
06 EPDM	
Halter *Fitting*	**Gewinde** *Thread*
15mm	1600g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

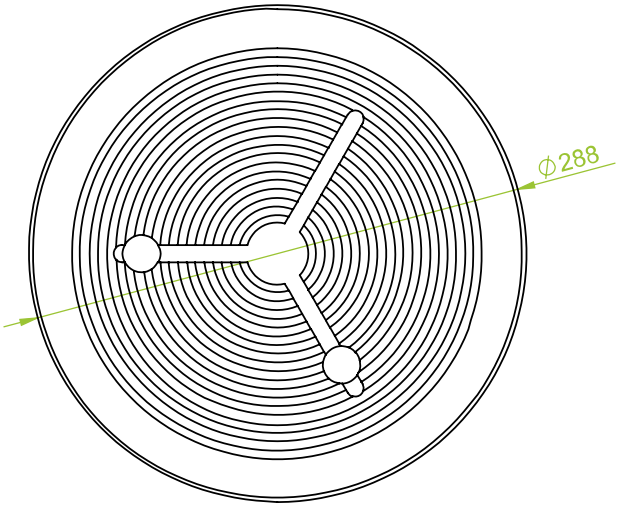
Email: info@morali-gmbh.de
www.morali-gmbh.de

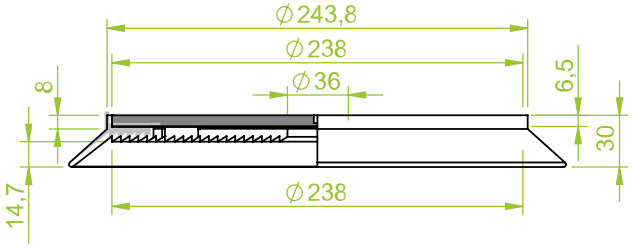
Flachsauger | *Flat cups*

13.288.062._ **vulkanisiert**

Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
9mm	2886g

15.288.032._ **vulkanisiert**

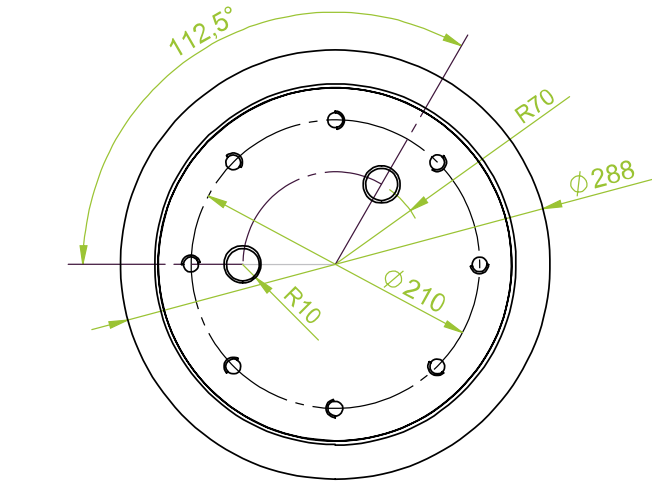


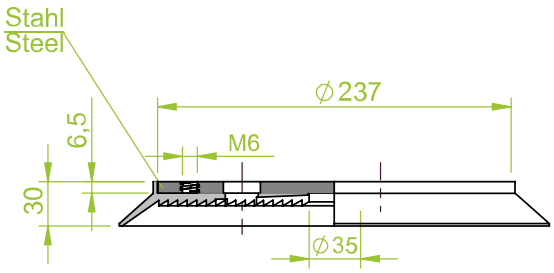


Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
12mm	2914g

15.288.033._

vulkanisiert





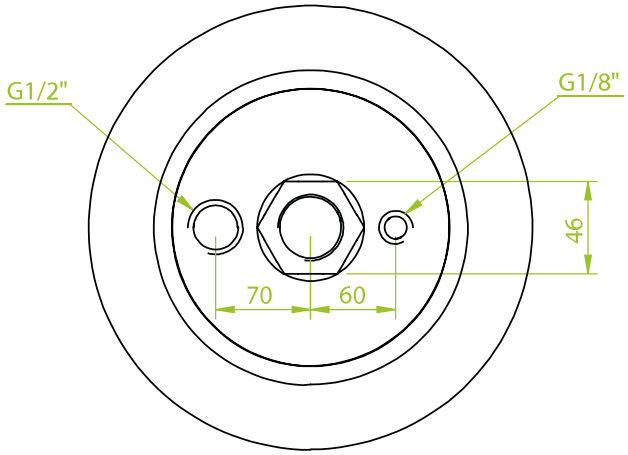
Materialcode
12 verstärktes Silikon

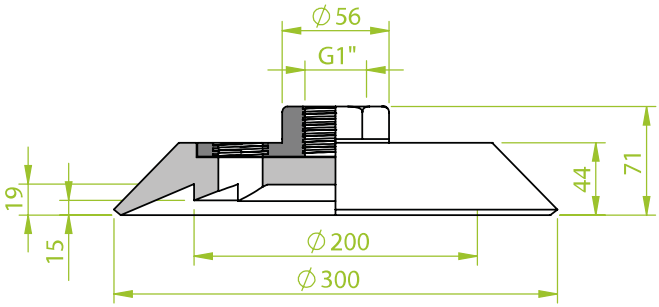
Halter *Fitting*	Gewinde *Thread*

12mm	2580g

13.300.021._

vulkanisiert





Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

17mm	1840g

Morali Produktionstechnik GmbH
Handling technology

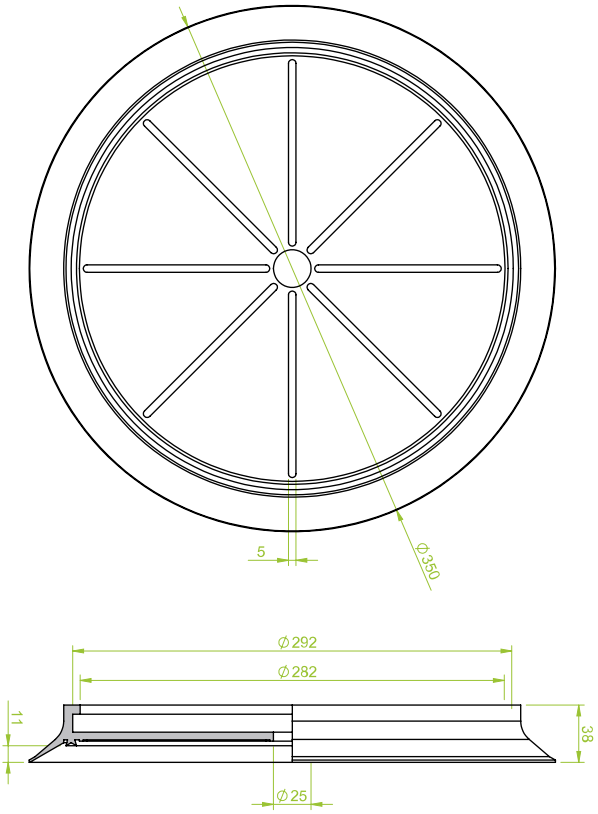
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Flachsauger I *Flat cups*

10.350.097._



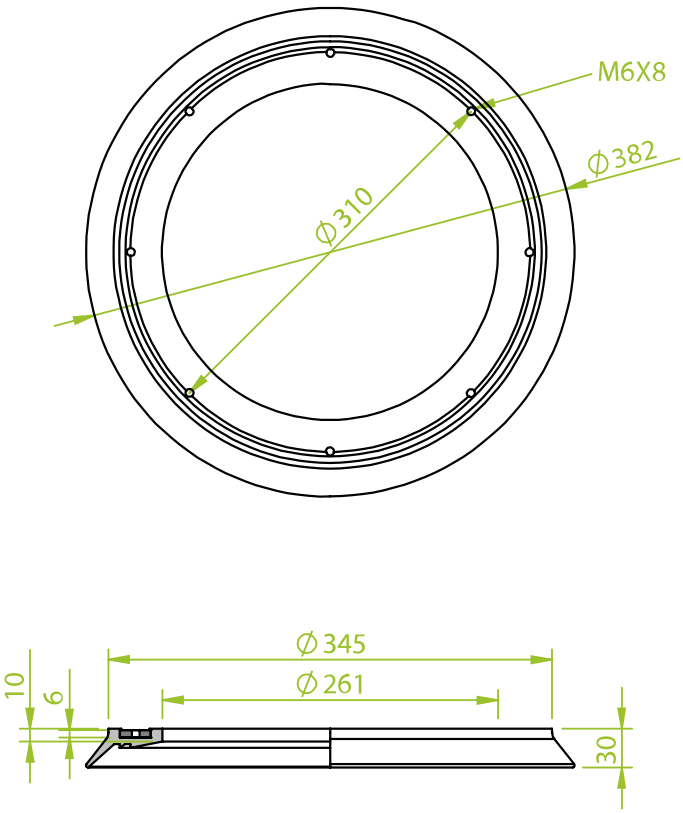
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.337	1/2" IG

12mm	672g

13.382.065._

vulkanisiert



Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	1664g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Aufbau & Ausführungen | *Structure & Versions*

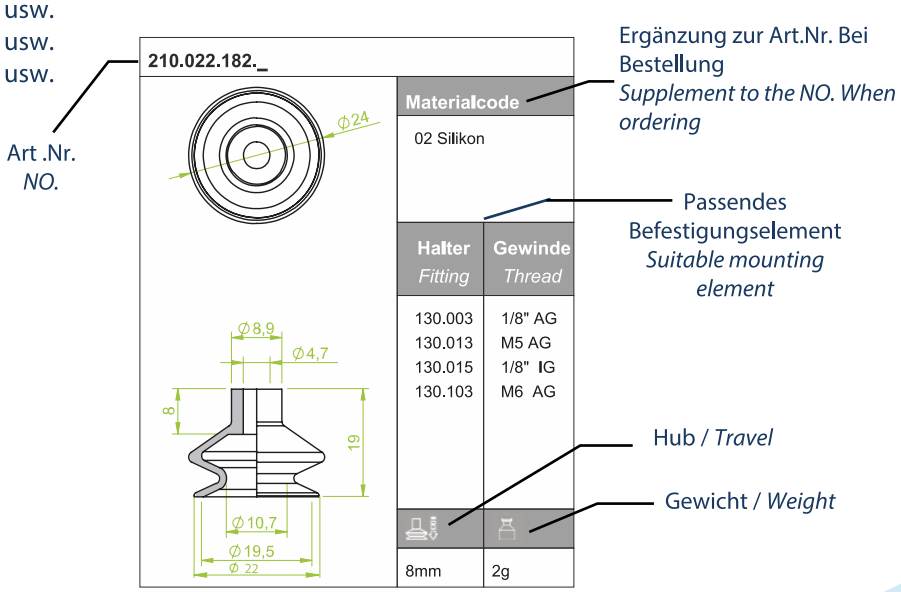
Ohne Anschlussteil *Without fitting* **210.**	Inkl. Anschluss, gesteckt, Innengewinde *Incl. plugged fitting, female thread* **211.**	Inkl. Anschluss, gesteckt, Aussengewinde *Incl. plugged fitting,male thread* **212.**
		
210.004.073._	211.033.003._	212.003.201._

Inkl. Anschluss, vulkanisiert, Innengewinde *Incl. vulcanized fitting, female thread* **213.**	Inkl. Anschluss, vulkanisiert, Aussengewinde *Incl. vulcanized fitting, male thread* **214.**	Vulkanisiert, ohne Gewinde/Bohrung *Vulcanized, without thread/hole* **215.**
		
213.003.201._	214.085.002._	215.200.007._

Example: Balgensauger ohne Anschlussteil Ø 22 mm, verfügbar in dem Material Silikon | *Bellow suction cups without fitting Ø 22 mm, available in the material silicone.*

Die Faltenanzahl wird durch die zweite Ziffer angegeben | The number of folds is indicated by the second digit:

2,5 Falten/folds : 220.xxx.xxx.xx 221.xxx.xxx.xxx usw.
3,5 Falten/folds : 230.xxx.xxx.xx 231.xxx.xxx.xxx. usw.
4,5 Falten/folds : 240.xxx.xxx.xx 241.xxx.xxx.xxx. usw.
5,5 Falten/folds : 250.xxx.xxx.xx

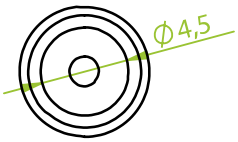


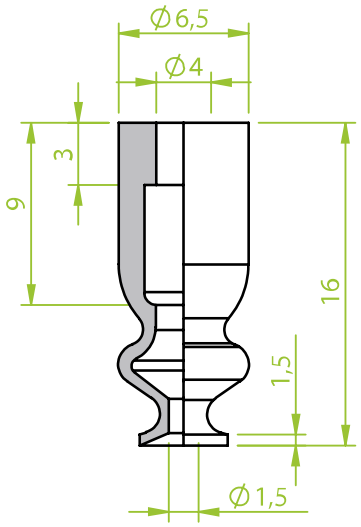
Eigenschaften der Saugermaterialien auf Seite 24 | *Properties of vacuum cup materials at page* 24

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.004.073._



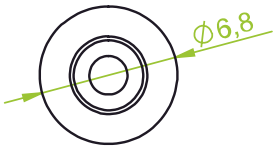


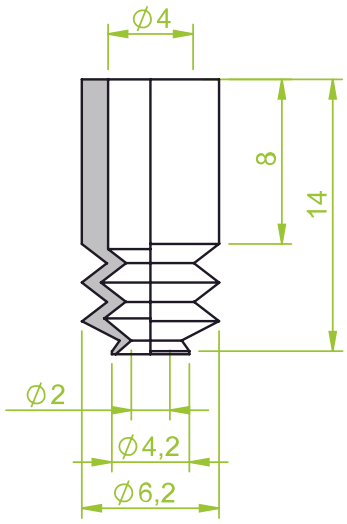
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

4mm	1g

220.004.042._





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

3mm	0.3g

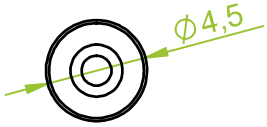
220.004.135._

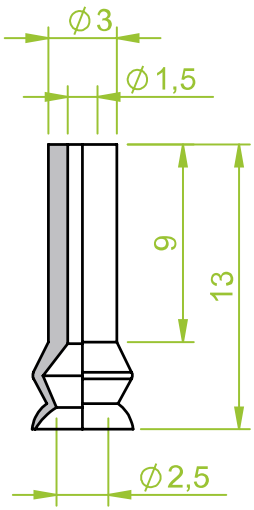
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.001	M5 AG
130.195	M5 AG

2mm	0.8g

210.005.027._





Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.001	M5 AG
130.195	M5 AG

2mm	0.8g

MORALI VACTEC SYSTEMS

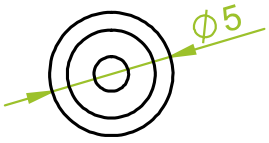
Morali Produktionstechnik GmbH
Handling technology

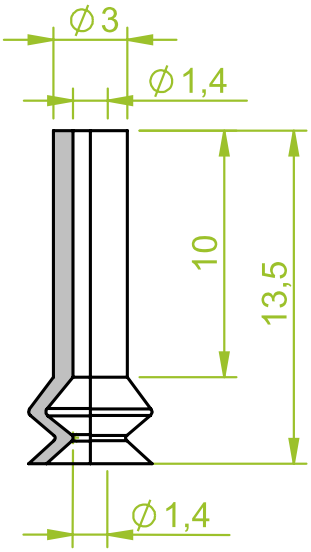
Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.005.028._



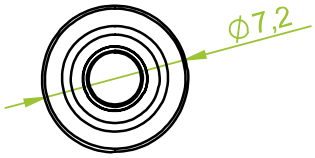


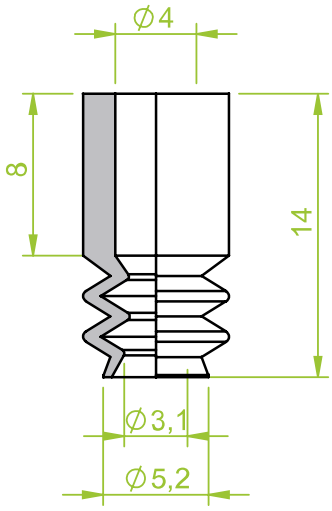
Materialcode
07 FKM
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.001	M5 AG
130.195	M5 AG

2mm	1g

220.005.017._



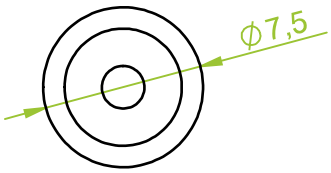


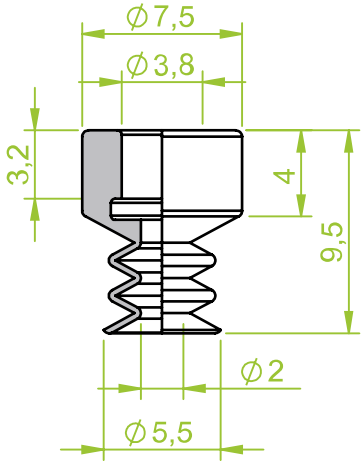
Materialcode
04 CR
06 EPDM
07 FKM
09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

3mm	0.3g

220.005.034._



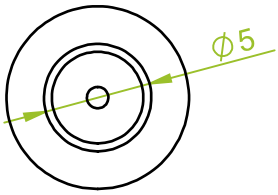


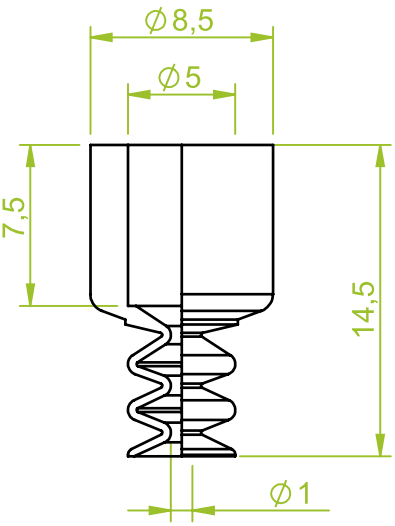
Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

3mm	0.2g

220.005.043._





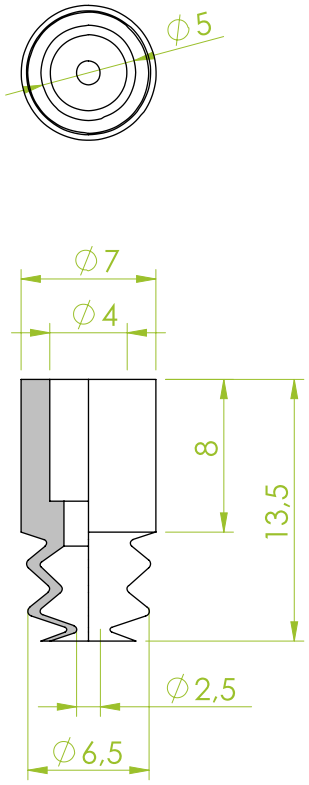
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

3.5mm	0.4g

Balgensauger I *Bellow cups*

220.005.044._

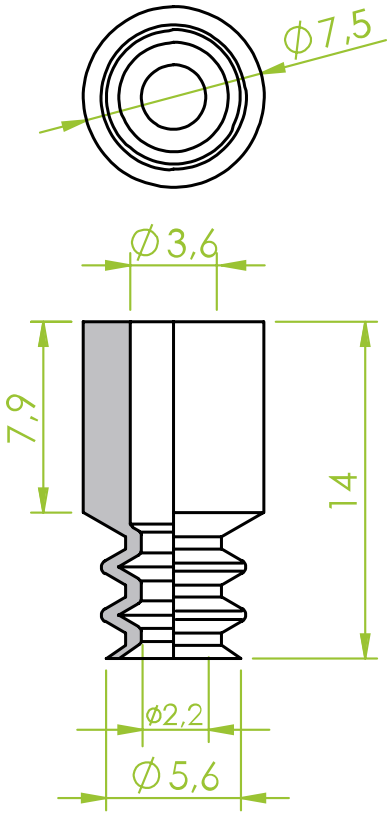


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

3mm	0.4g

220.005.118._

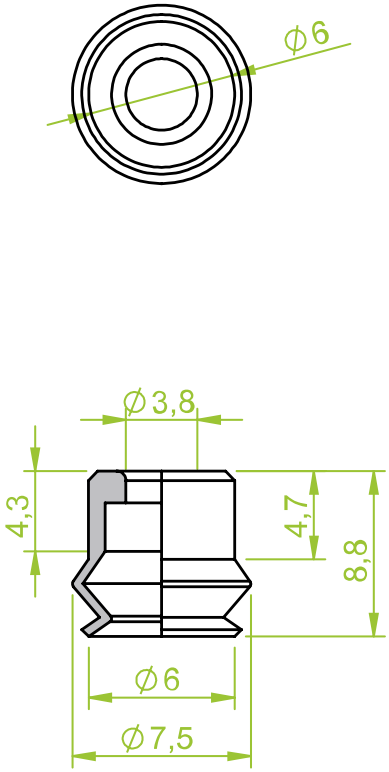


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

3mm	0.3g

210.006.074._

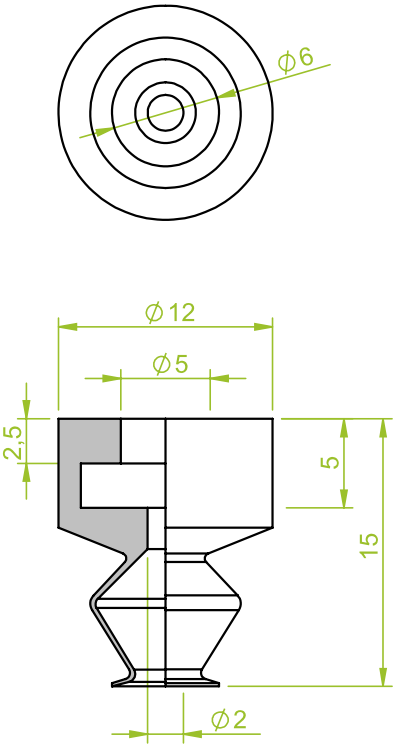


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.009	1/8" AG
130.200	M5 AG
130.301	M5 AG

5mm	0.2g

210.006.075._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG

5mm	0.7g

MORALI VACTEC SYSTEMS

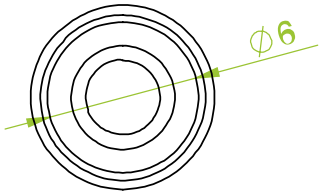
Morali Produktionstechnik GmbH
Handling technology

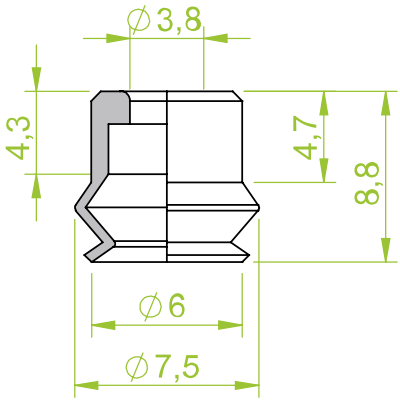
Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.006.219._



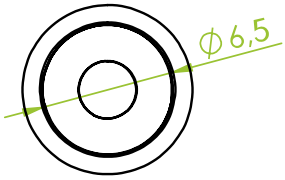


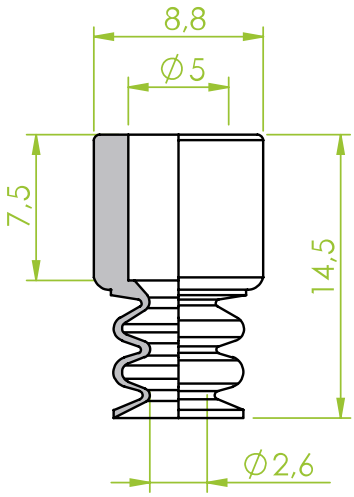
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.009	1/8" AG
130.200	M5 AG
130.301	M5 AG

5mm	0.2g

220.006.032._



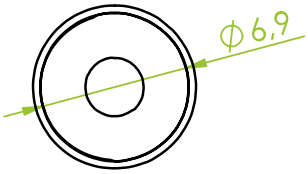


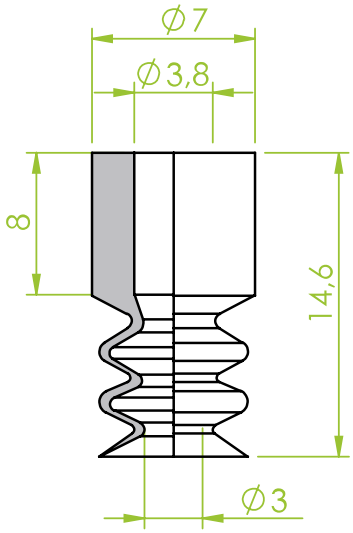
Materialcode
07 FKM 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.024	M5 AG
130.103	M6 AG
130.204	1/4" AG

3.5mm	0.4g

220.006.033._



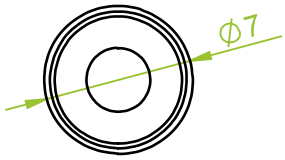


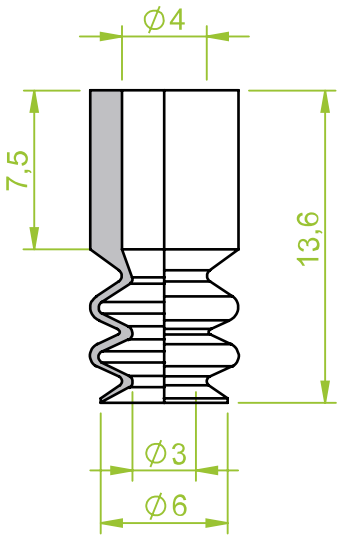
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG

3.5mm	0.4g

220.006.125._





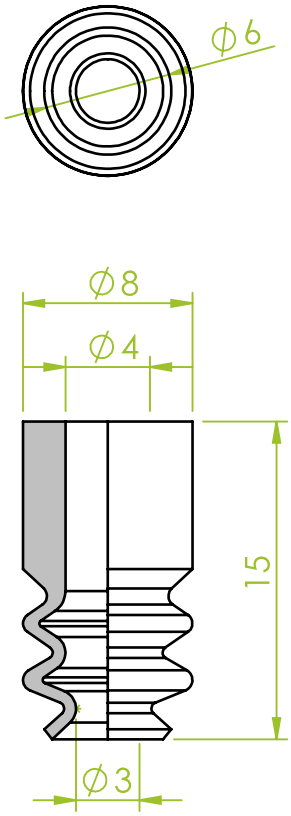
Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.024	M5 AG
130.033	1/8" AG
130.103	M6 AG
130.104	M6 AG
130.134	M5 AG
130.204	1/4" AG

3.5mm	0.4g

Balgensauger I *Bellow cups*

220.006.127._

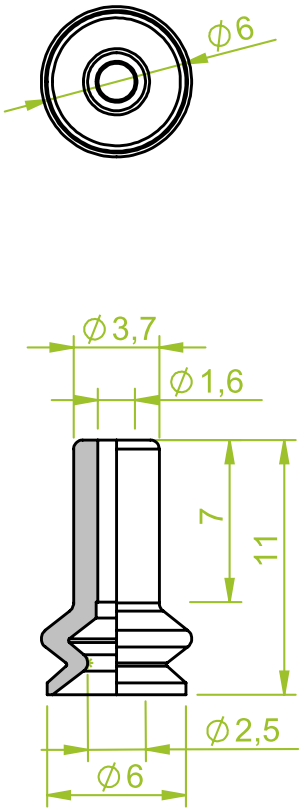


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.024	M5 AG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

3.5mm	0.4g

210.007.076._

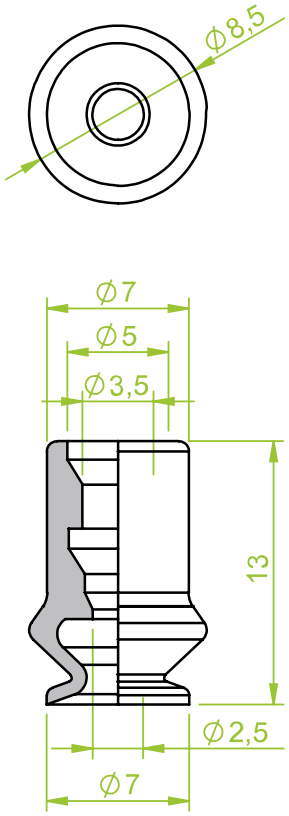


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.001	M5 AG

1.5mm	0.2g

210.007.077._

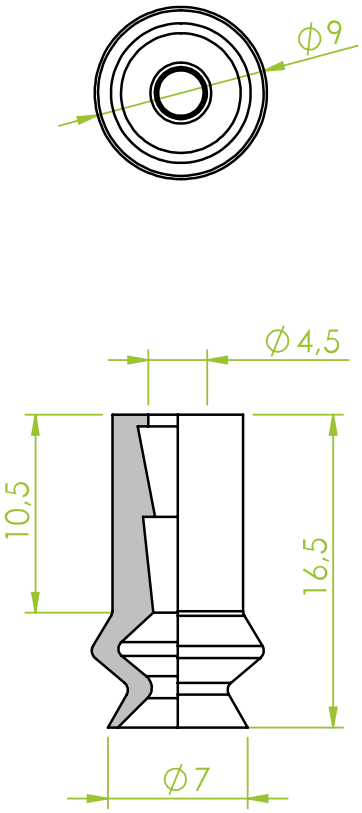


Materialcode
09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.087	1/8" AG
130.103	M6 AG
130.104	M6 AG
130.317	M5 AG

2mm	0.6g

210.007.168._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.134	M5 AG

1mm	0.3g

MORALI VACTEC SYSTEMS

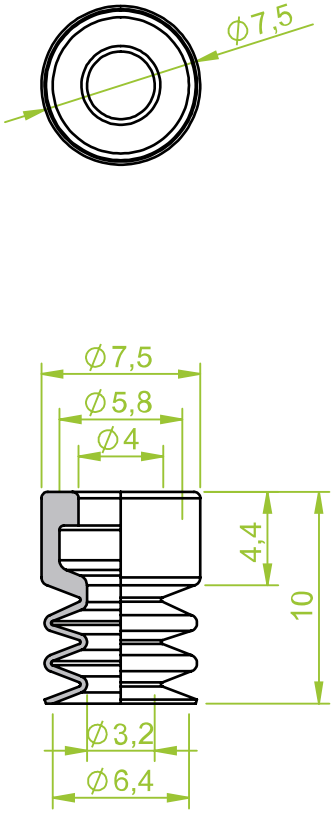
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

220.007.007._

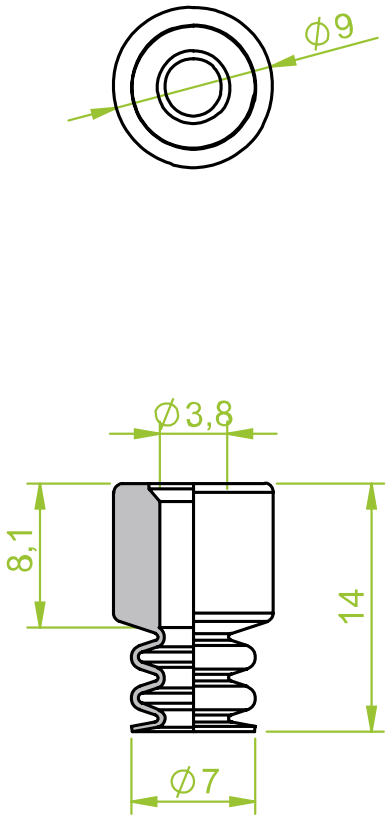


Materialcode
04 CR
06 EPDM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG
130.613	M5 AG

3mm	0.2g

220.007.123._

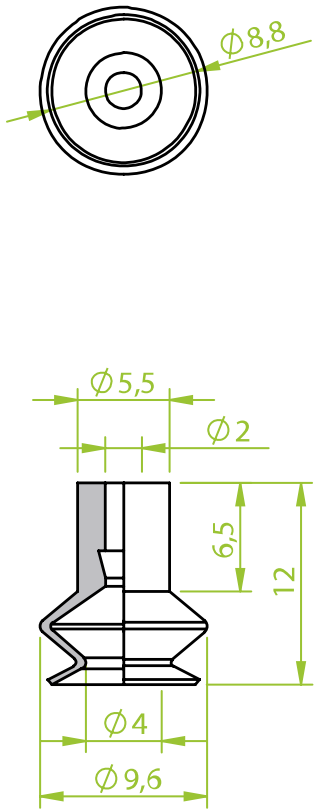


Materialcode
07 FKM
09 HNBR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.134	M5 AG

3mm	0.5g

210.008.010._

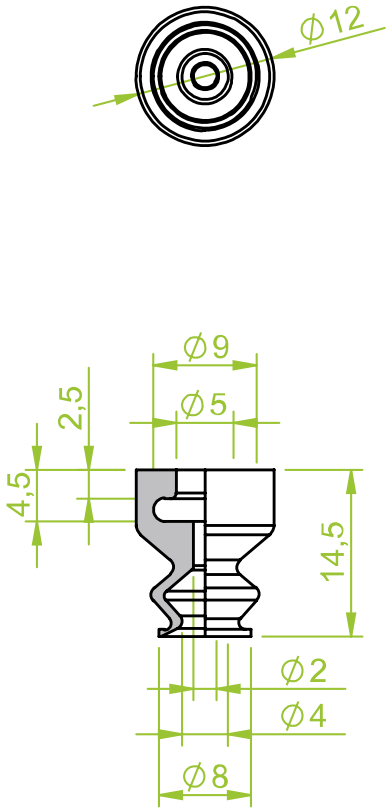


Materialcode
07 FKM
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.153	M5 AG
130.591	M5 AG

3.5mm	0.2g

210.008.078._



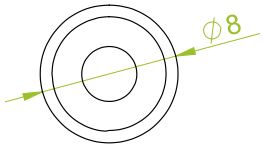
Materialcode
02 Silikon

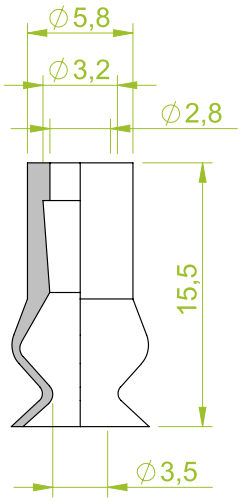
Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG

5mm	0.9g

Balgensauger I *Bellow cups*

210.008.079._



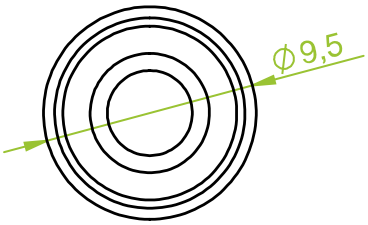


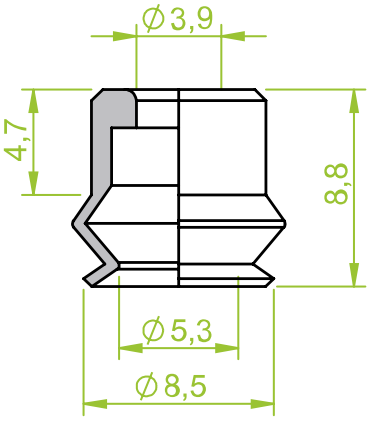
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014	M3 AG
130.104	M6 AG
130.134	M5 AG

3.5mm	0.4g

210.008.160._



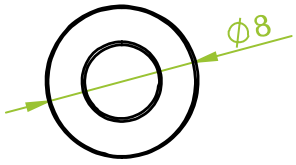


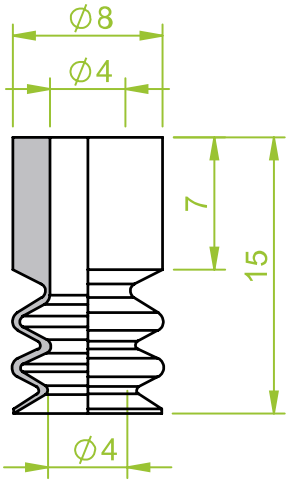
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.009	1/8" AG
130.301	M5 AG
130.613	M5 AG

3mm	0.2g

220.008.025._



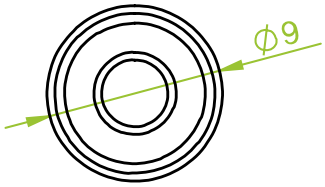


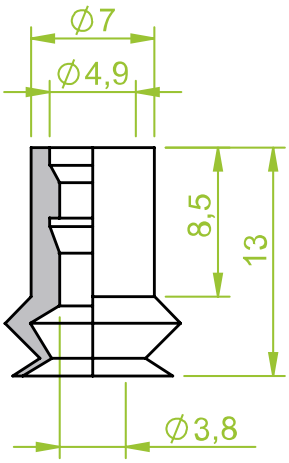
Materialcode
06 EPDM 07 FKM 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.613	M5 AG

4mm	1g

210.009.166._





Materialcode
07 FKM 09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.134	M5 AG

3mm	0.3g

MORALI VACTEC SYSTEMS

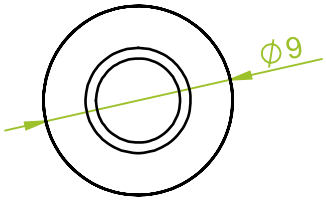
Morali Produktionstechnik GmbH
Handling technology

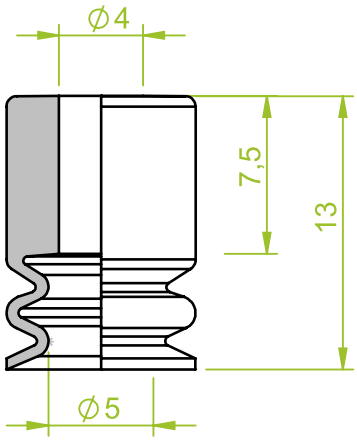
Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.009.197._



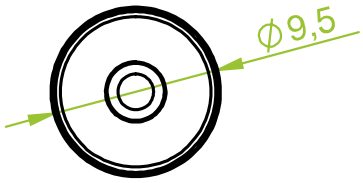


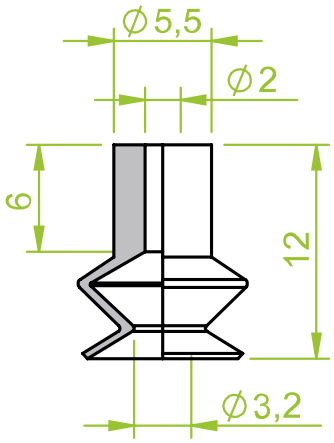
Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.317	M5 AG

1.5mm	0.6g

210.009.202._



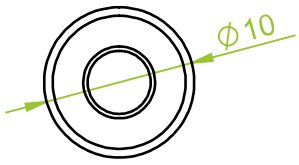


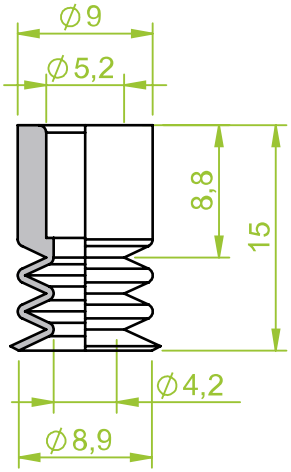
Materialcode

Halter *Fitting*	Gewinde *Thread*
130.153	M5 AG

mm	0g

220.009.015._



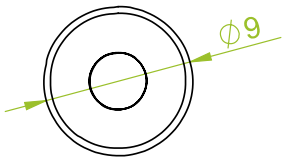


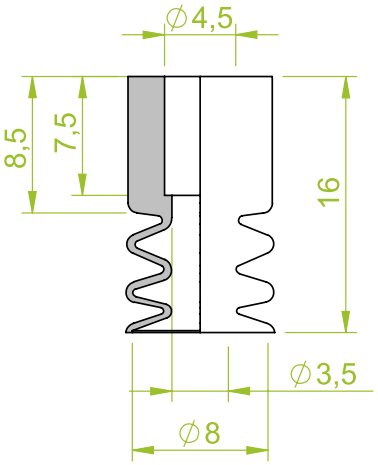
Materialcode
04 CR 06 EPDM 07 FKM 09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.539	1/8" AG

2mm	0.6g

220.009.045._





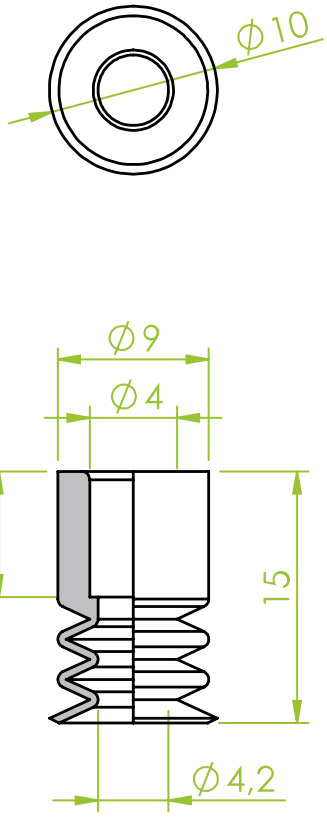
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

3.5mm	0.6g

Balgensauger I *Bellow cups*

220.009.105._

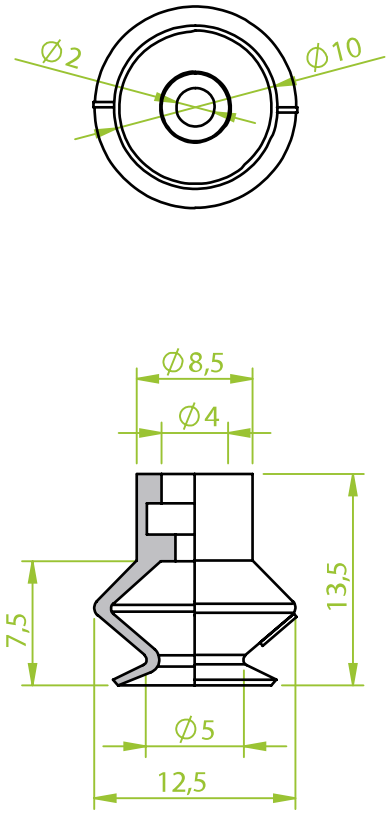


Materialcode
09 HNBR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.103	M6 AG
130.134	M5 AG

2mm	0.6g

210.010.008._

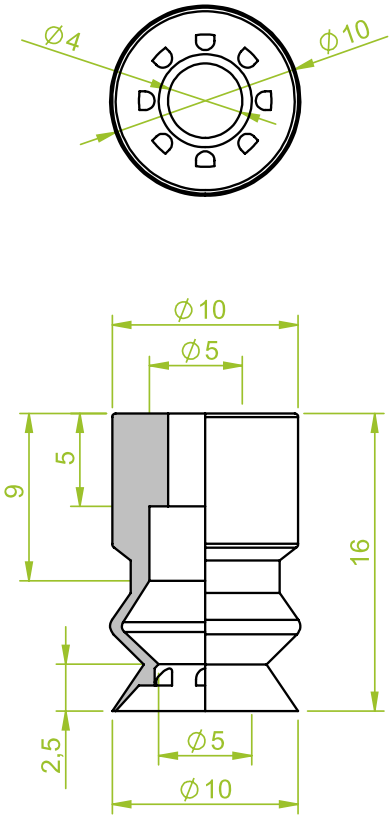


Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG
130.301	M5 AG

4mm	0.7g

210.010.036._

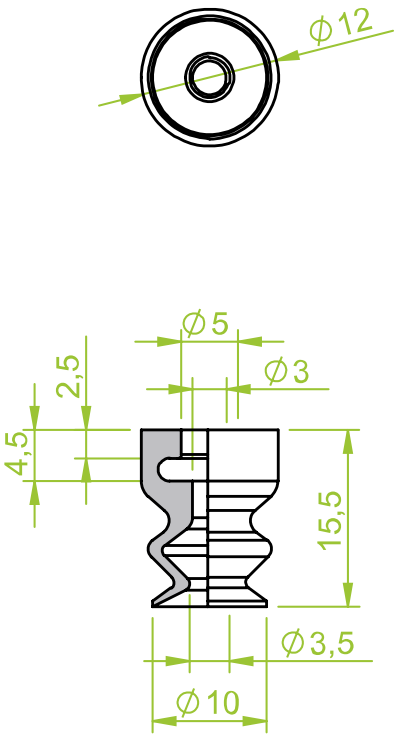


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.104	M6 AG
130.134	M5 AG

4.5mm	0.8g

210.010.080._

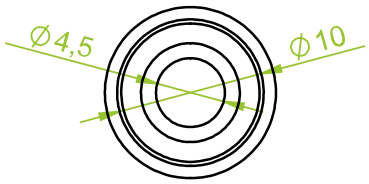


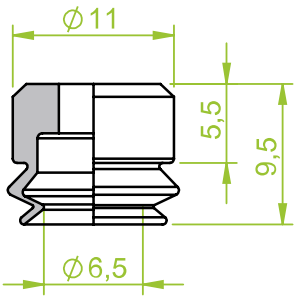
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG

mm	0g

210.010.081._



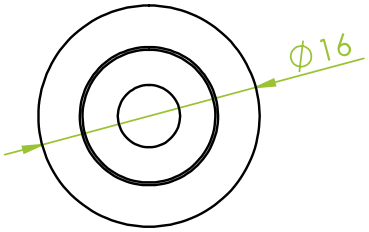


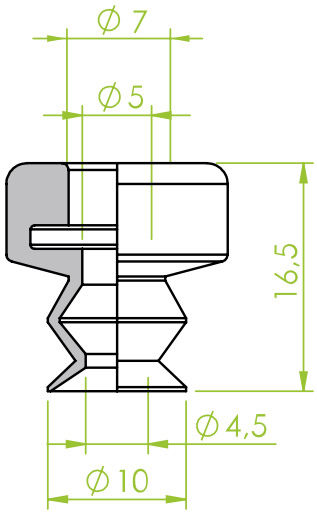
Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.310	M5 AG

2.5mm	1g

210.010.184._



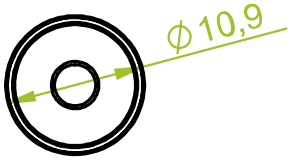


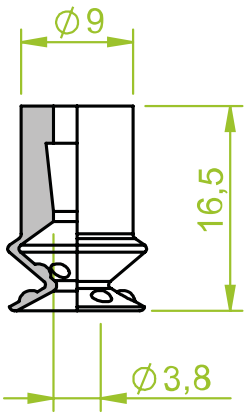
Materialcode
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

3.5mm	1.8g

210.010.805._



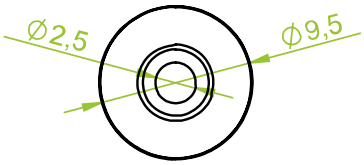


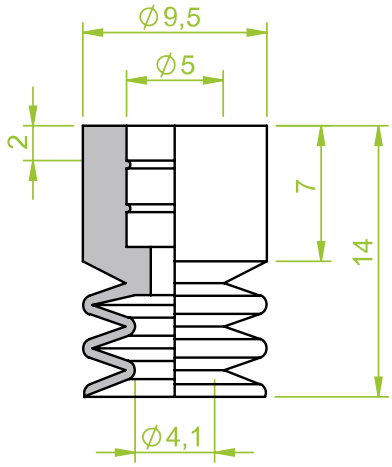
Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.134	M5 AG

5.5mm	1.36g

220.010.014._





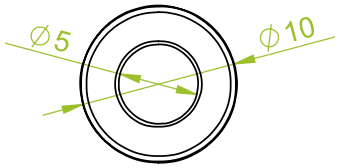
Materialcode
07 FKM
05 Polyurethan
02 Silikon

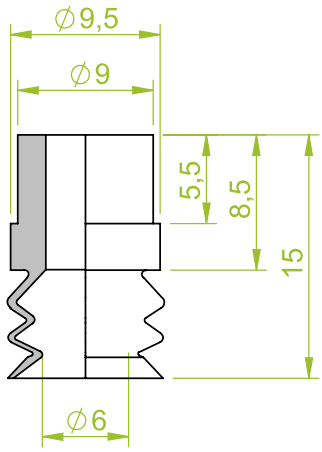
Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.134	M5 AG

4mm	0.6g

Balgensauger I *Bellow cups*

220.010.019._



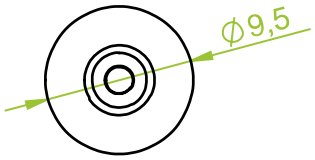


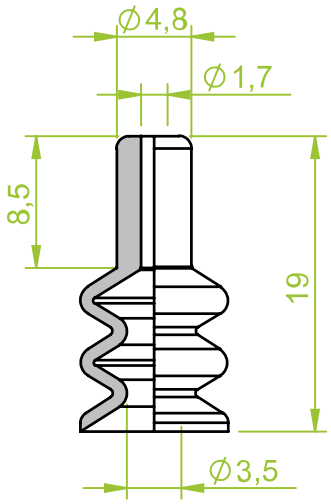
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

4mm	0.6g

220.010.020._



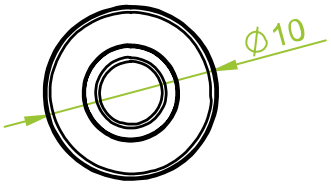


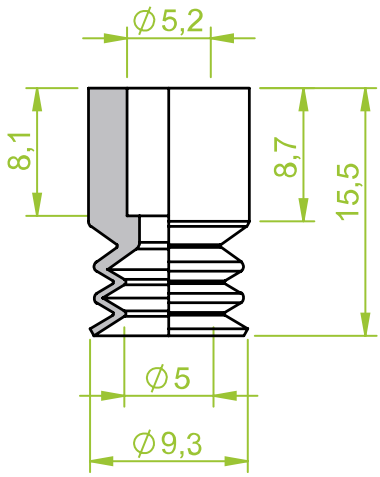
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.001	M5 AG

8mm	0.4g

220.010.021._



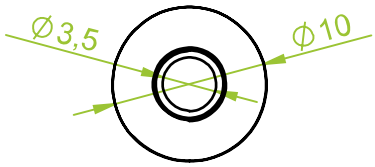


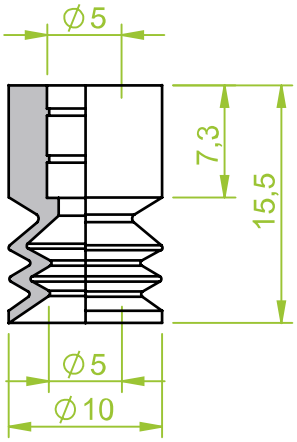
Materialcode
09 HNBR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

3mm	0.6g

220.010.029._



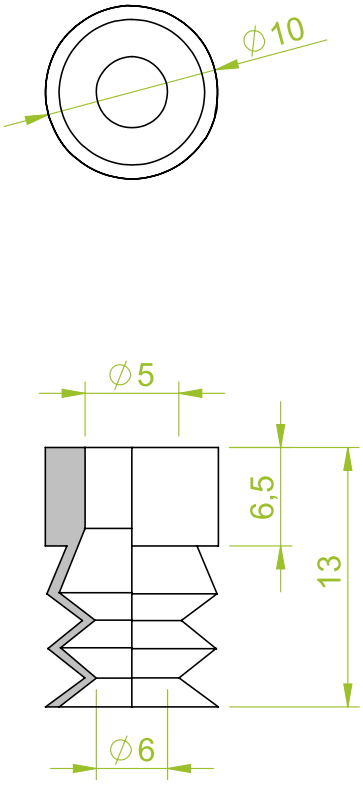


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

mm	0g

220.010.047._

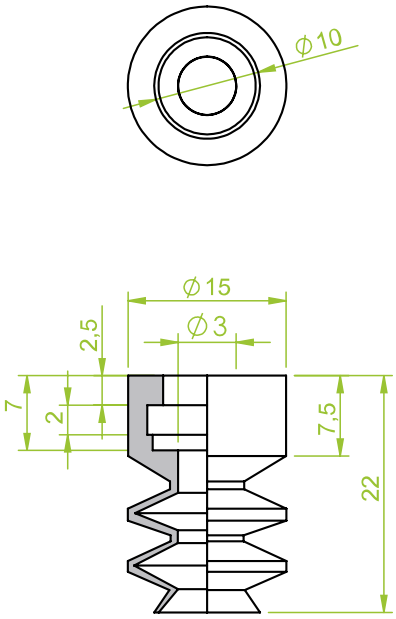


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG
130.103	M6 AG

4mm	0.4g

220.010.048._

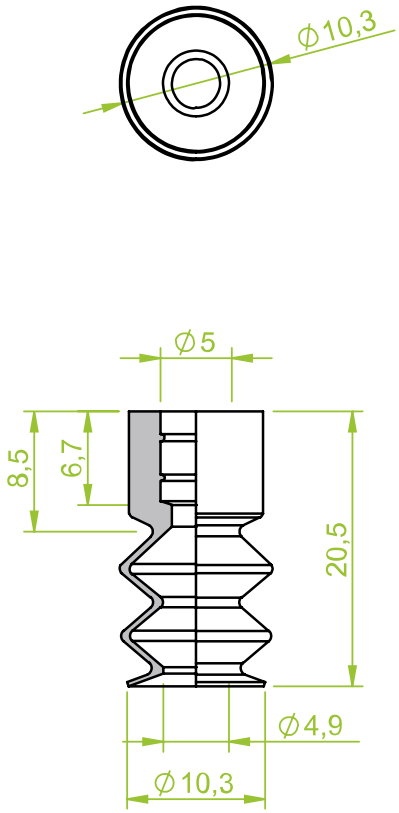


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
270.541	1/8" AG

mm	0g

220.010.096._

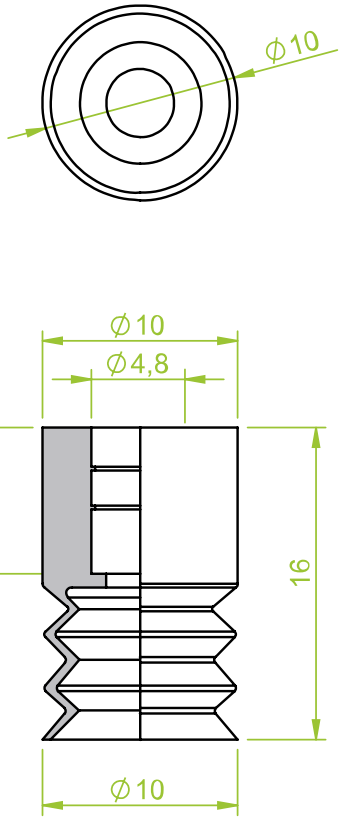


Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

5mm	0.8g

220.010.124._



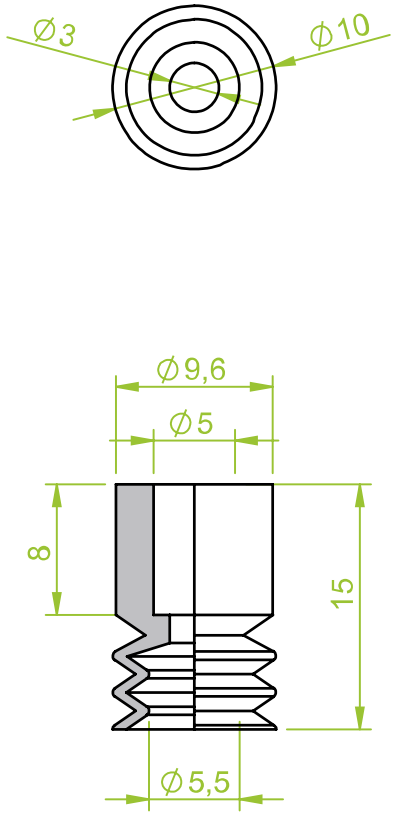
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

4mm	0.8g

Balgensauger I *Bellow cups*

220.010.126._

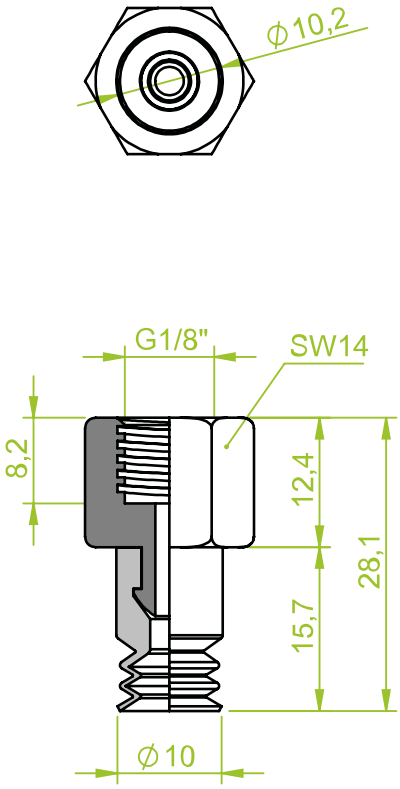


Materialcode
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

3mm	1g

221.010.003._

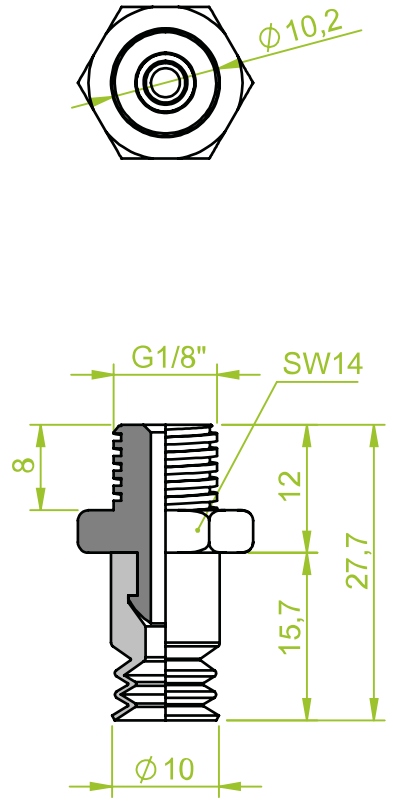


Materialcode
09 HNBR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*

3mm	0.6g

222.010.001._

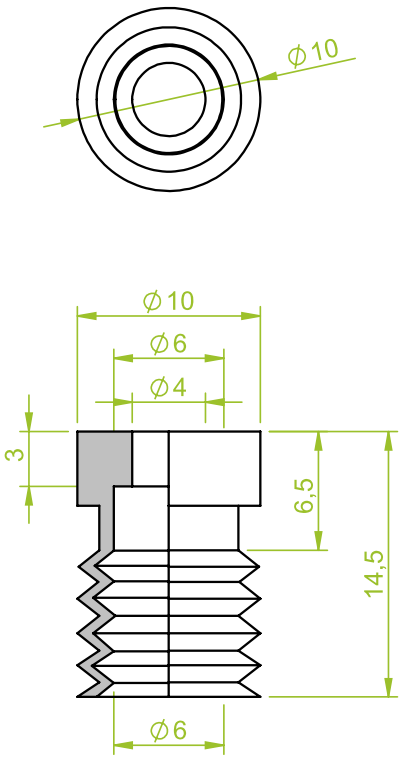


Materialcode
09 HNBR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG

3mm	0.6g

240.010.011._

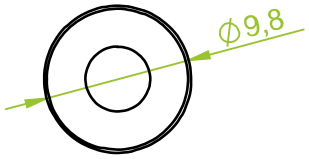


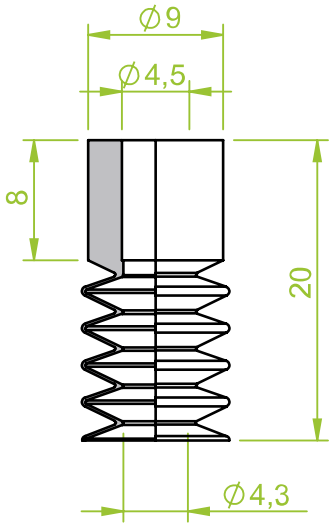
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG

4mm	2g

240.010.028._



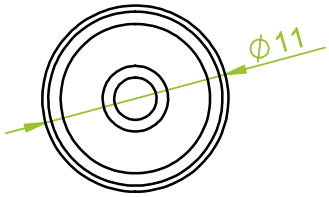


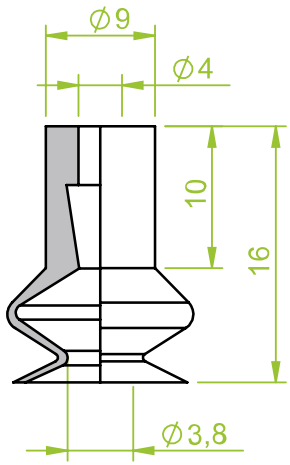
Materialcode
09 HNBR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

7mm	0.7g

210.011.001._



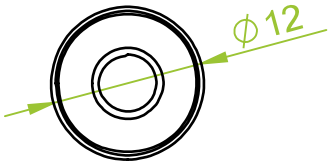


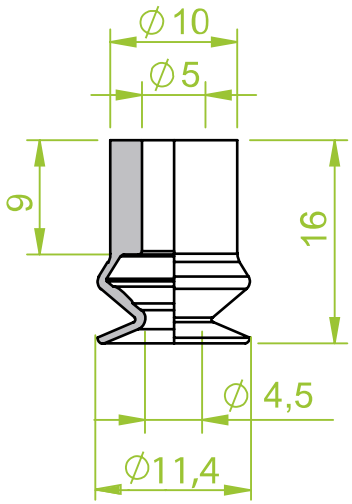
Materialcode
04 CR
07 FKM
09 HNBR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.104	M6 AG
130.134	M5 AG

5mm	0.8g

210.011.018._



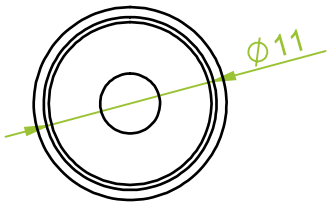


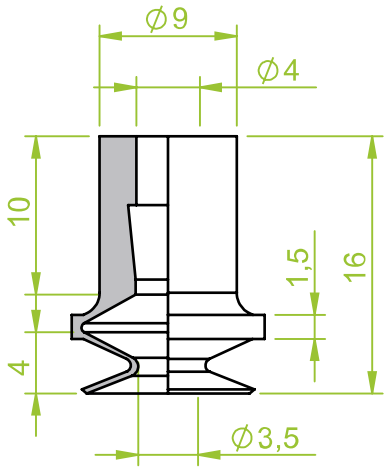
Materialcode
09 HNBR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

4.5mm	0.8g

210.011.025._





Materialcode
02 Silikon

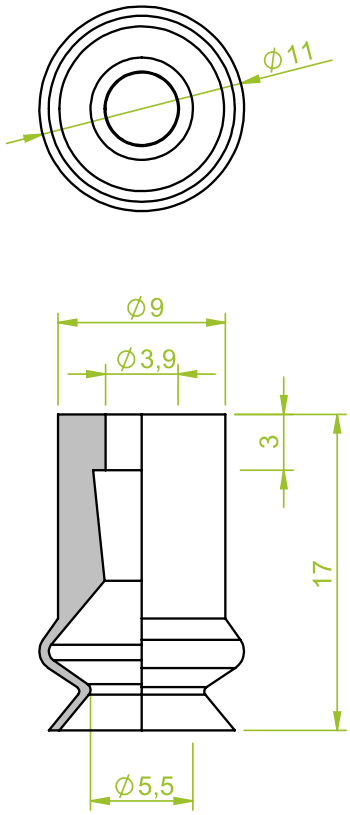
Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

3.5mm	1g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.011.029._

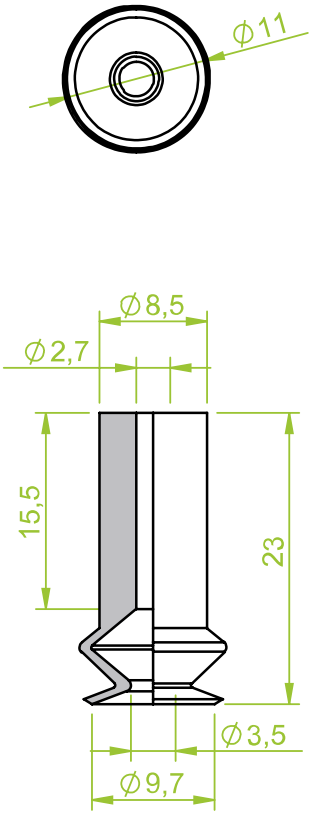


Materialcode
04 CR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.104	M6 AG
130.134	M5 AG

5mm	0.6g

210.011.082._

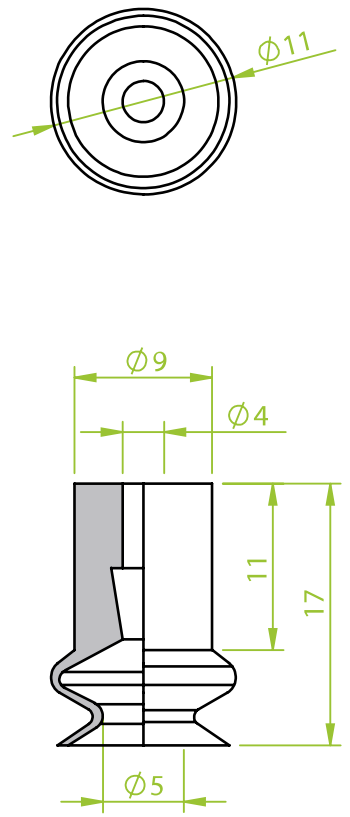


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.087	1/8" AG
130.134	M5 AG

3.5mm	1g

210.011.083._

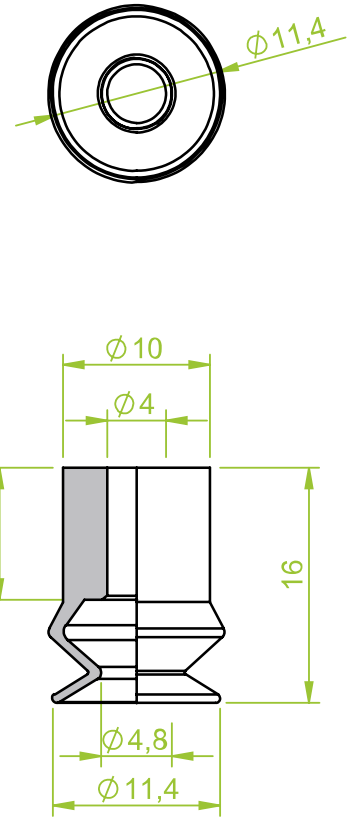


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.104	M6 AG
130.134	M5 AG

4mm	1g

210.011.141._

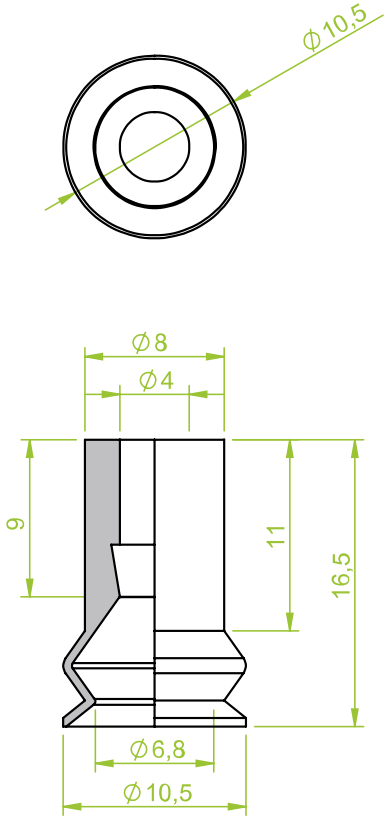


Materialcode
04 CR 09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

4.5mm	0.8g

210.011.176._

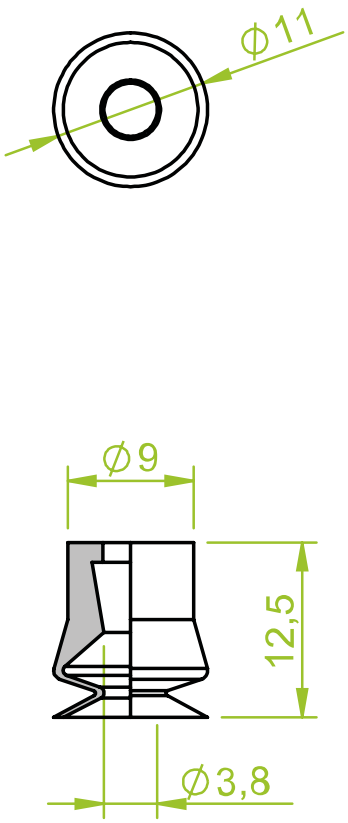


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.015	1/8" IG
130.087	1/8" AG
130.104	M6 AG
130.134	M5 AG

2.5mm	0.5g

210.011.212._

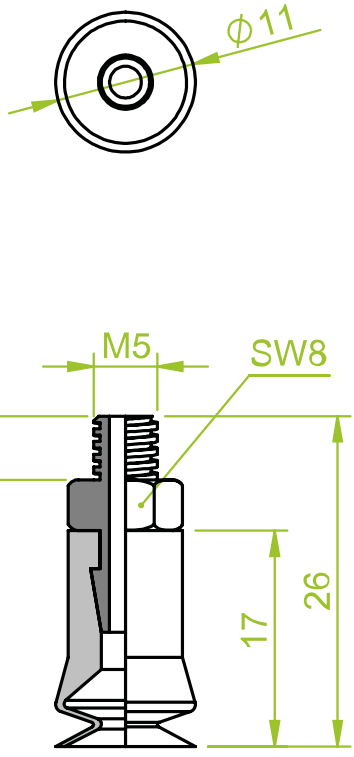


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	1g

212.011.011._

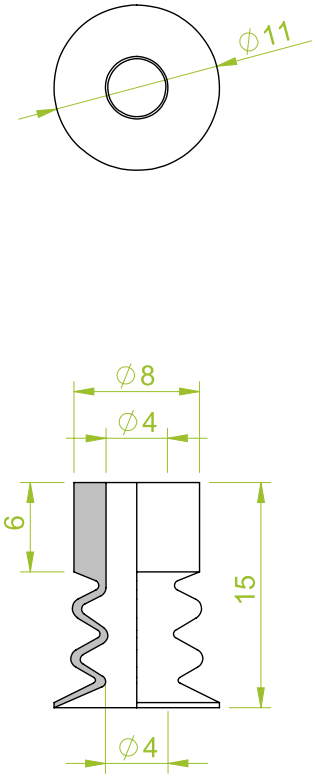


Materialcode
03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	1g

220.011.008._



Materialcode
09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.104	M6 AG
130.134	M5 AG

5mm	1g

Morali Produktionstechnik GmbH
Handling technology

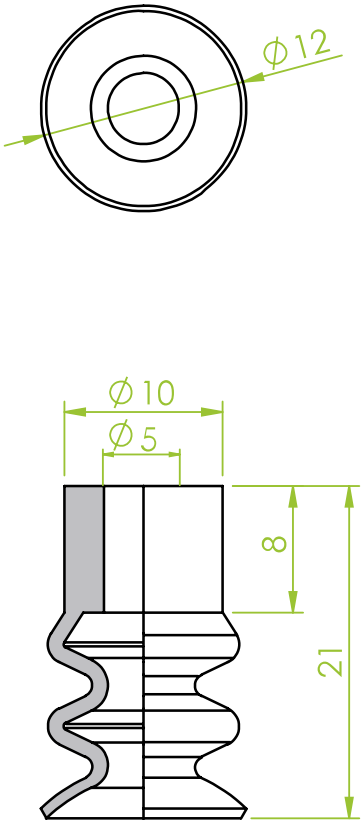
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

220.012.011._

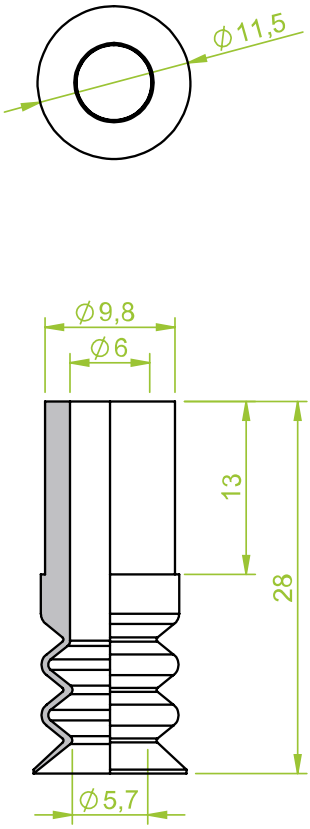


Materialcode
04 CR 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.134	M5 AG
130.194	1/4" AG
130.238	1/8" AG

8.5mm	1g

220.012.024._

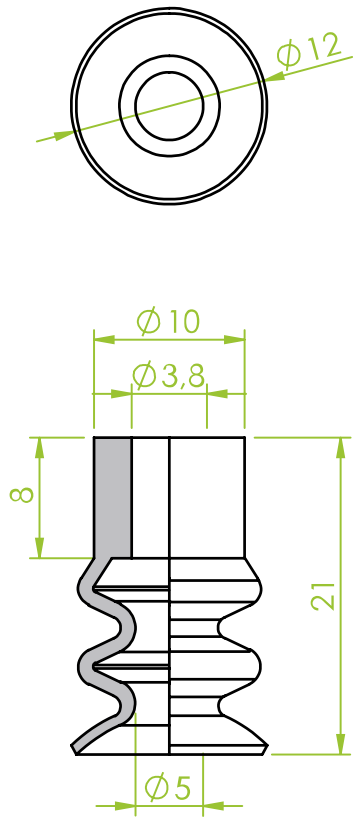


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.110	1/8" IG
130.238	1/8" AG

6mm	1.2g

220.012.108._

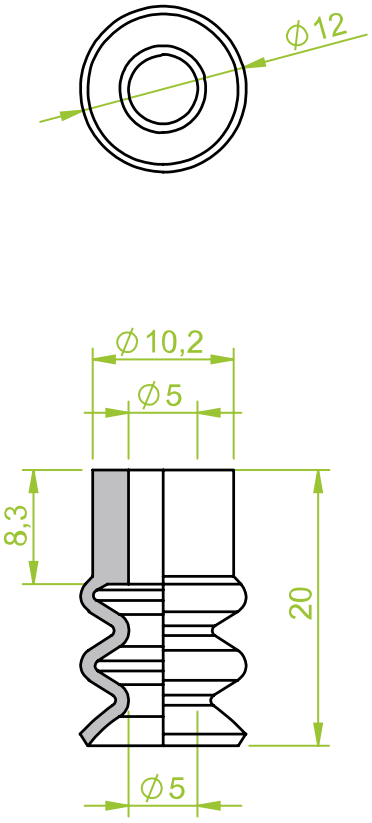


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.015	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

7mm	1.3g

220.012.122._



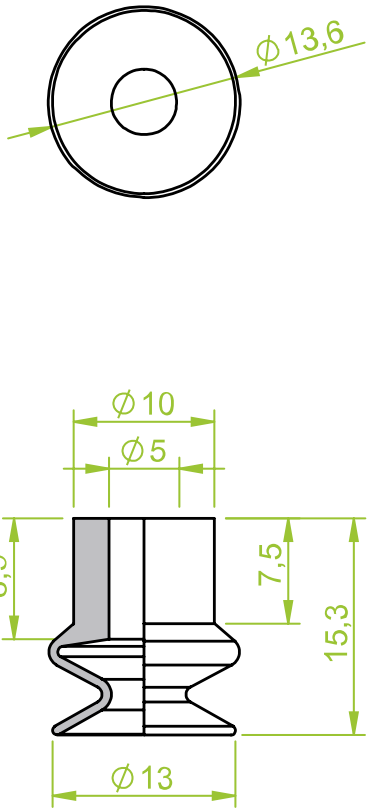
Materialcode

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

7mm	1g

MORALI VACTEC SYSTEMS
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

210.013.003._

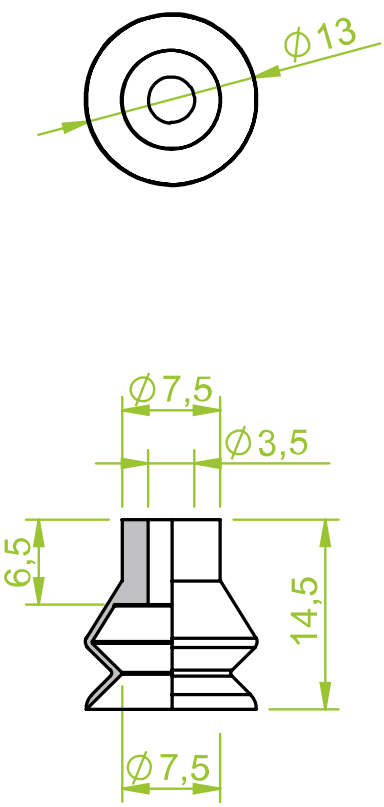


Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.087	1/8" AG
130.103	M6 AG
130.317	M5 AG

4mm	1g

210.013.013._

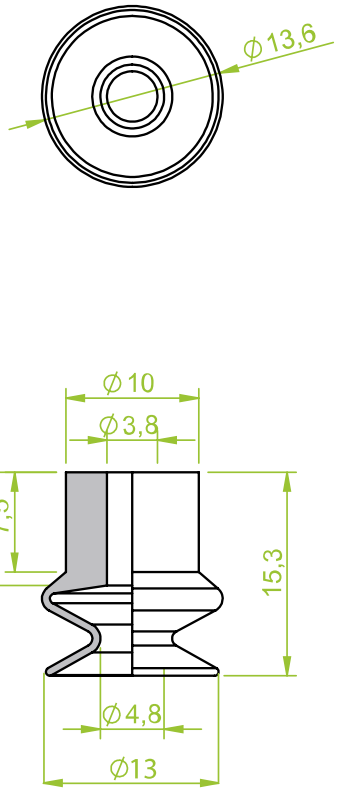


Materialcode
05 Polyurethan
02 Silikon
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.010	M5 AG
130.013	M5 AG
130.015	1/8" IG
130.033	1/8" AG
130.087	1/8" AG
130.103	M6 AG
130.317	M5 AG

5mm	0.5g

210.013.201._

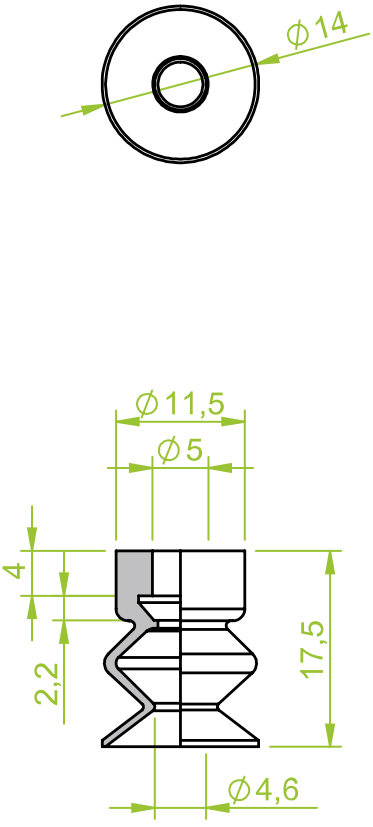


Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.033	1/8" AG
130.087	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.317	M5 AG

4mm	1g

210.014.064._



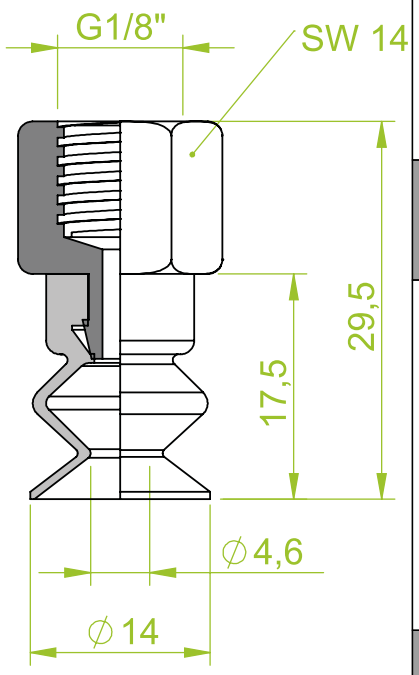
Materialcode
07 FKM
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

8mm	1.1g

Balgensauger I *Bellow cups*

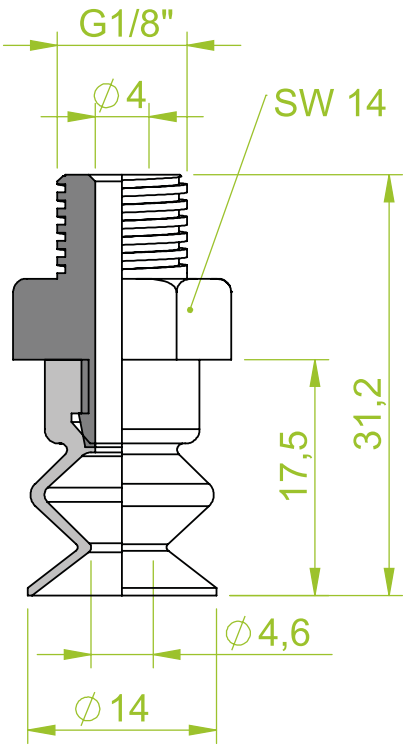
211.014.009._



Materialcode
06 EPDM
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
8mm	1.1g

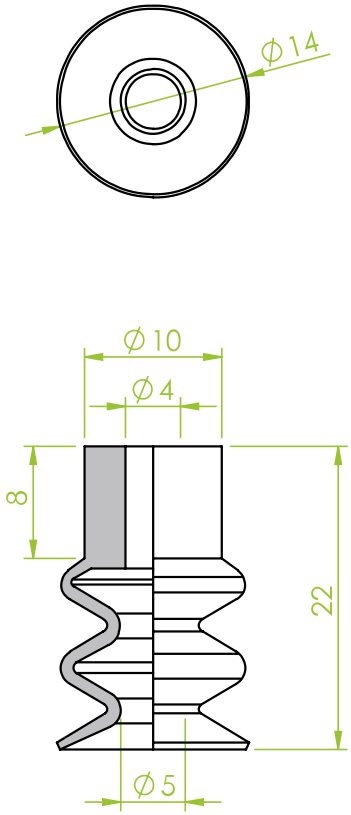
212.014.001._



Materialcode
06 EPDM
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
8mm	1.1g

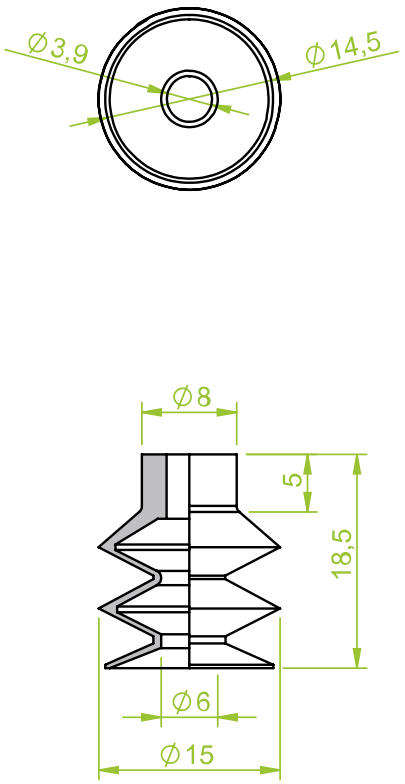
220.014.009._



Materialcode
04 CR
06 EPDM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.104	M6 AG
11mm	1.3g

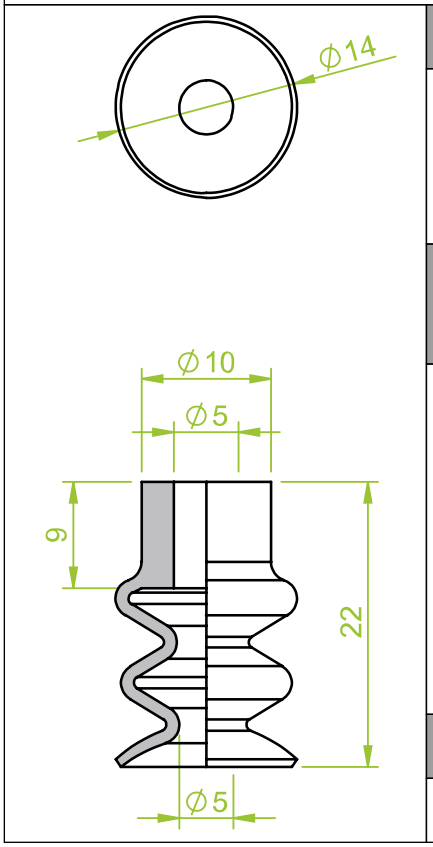
220.014.013._



Materialcode
04 CR
09 HNBR
02 Silikon
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.347	M5 IG
9mm	1g

220.014.016._

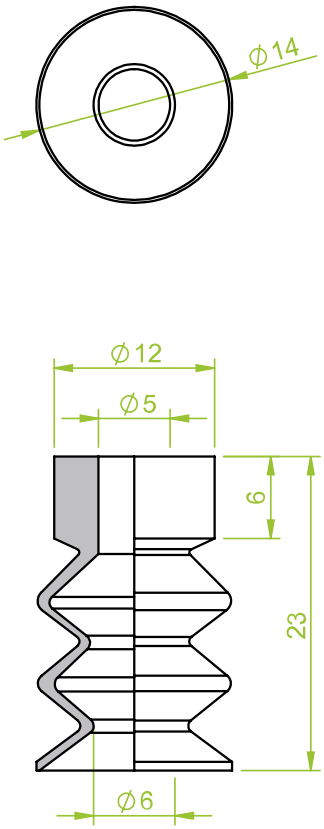


Materialcode
04 CR 06 EPDM 07 FKM 09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.539	1/8" AG

12mm	1.3g

220.014.023._

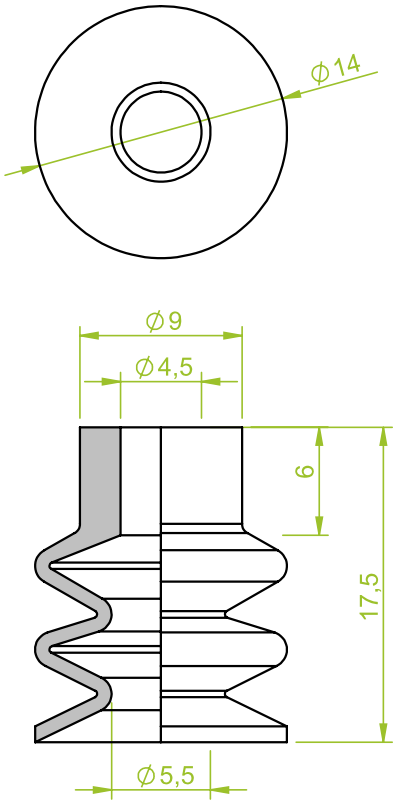


Materialcode
06 EPDM 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.109	1/8" IG
130.238	1/8" AG

10mm	1.4g

220.014.049._

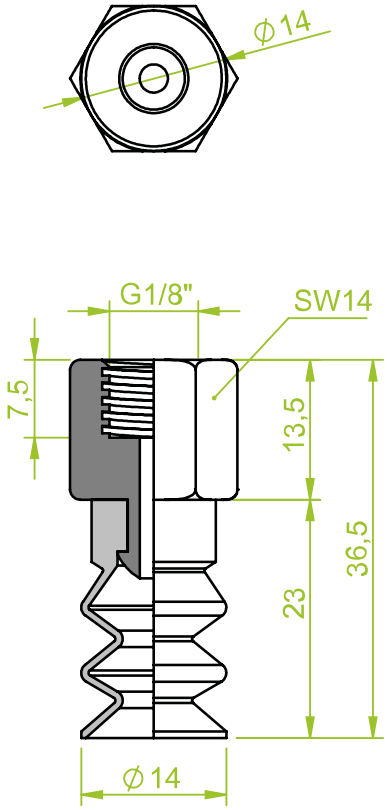


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.033	1/8" AG
130.104	M6 AG

7mm	1g

221.014.004._



Materialcode
06 EPDM 07 FKM 09 HNBR 03 NR

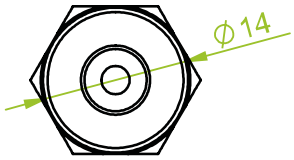
Halter *Fitting*	Gewinde *Thread*

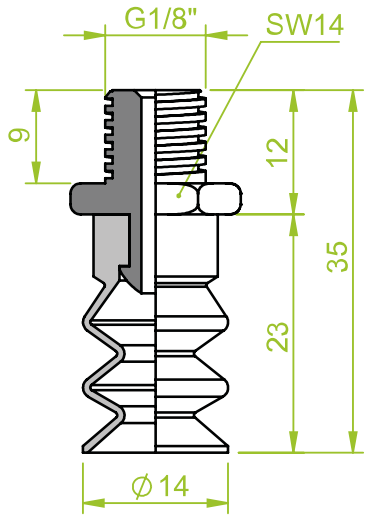
10mm	1.4g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

222.014.002._



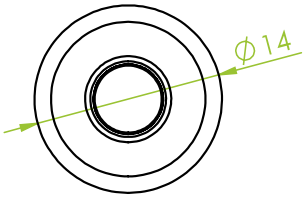


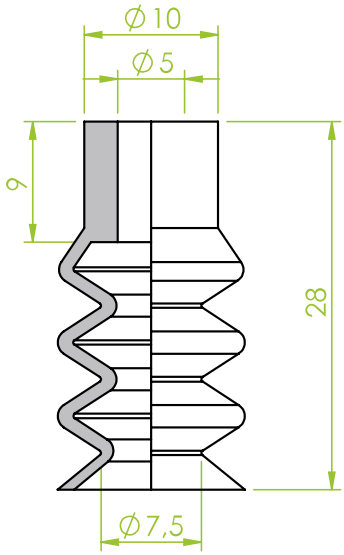
Materialcode
06 EPDM 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*

10mm	1.4g

230.014.013._



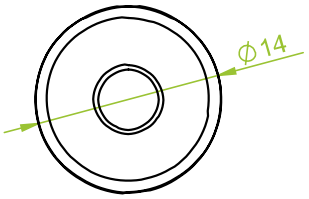


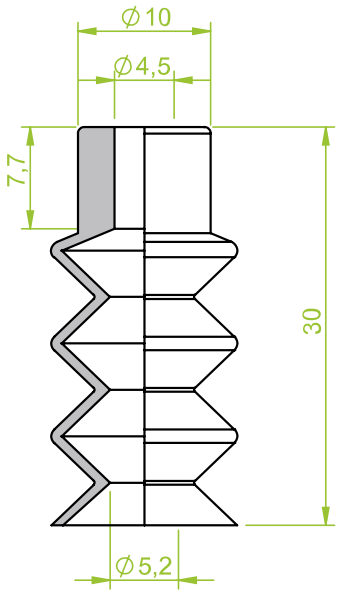
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.194	1/4" AG
130.238	1/8" AG

12.7mm	1.7g

230.014.026._



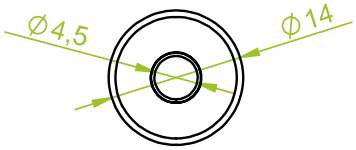


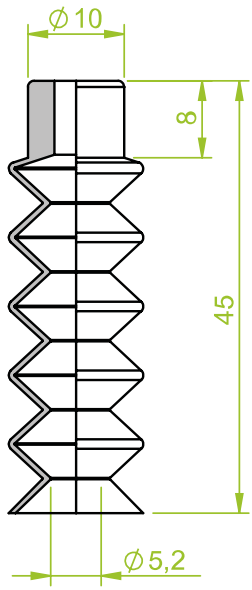
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.087	1/8" AG
130.109	1/8" IG

15mm	1.8g

250.014.015._





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

26mm	2.5g

MORALI VACTEC SYSTEMS

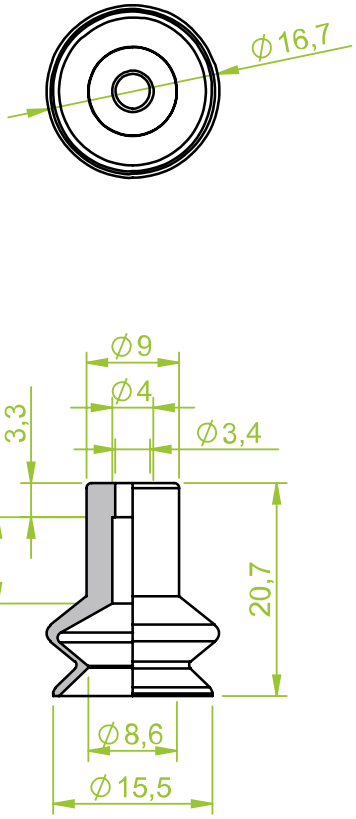
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.015.011._

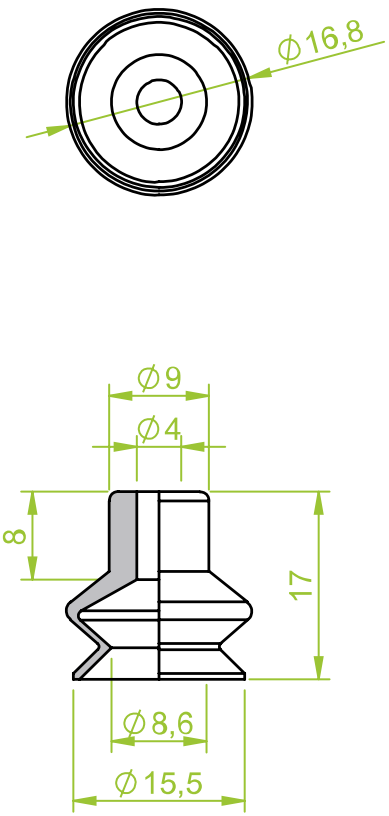


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

5mm	1.2g

210.015.012._

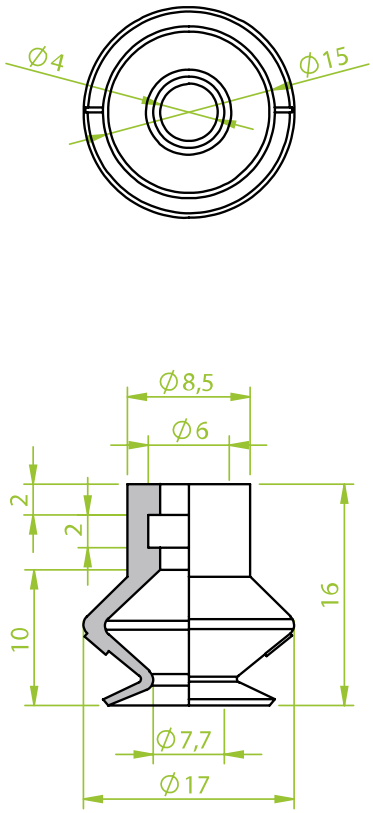


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

5mm	0.8g

210.015.015._

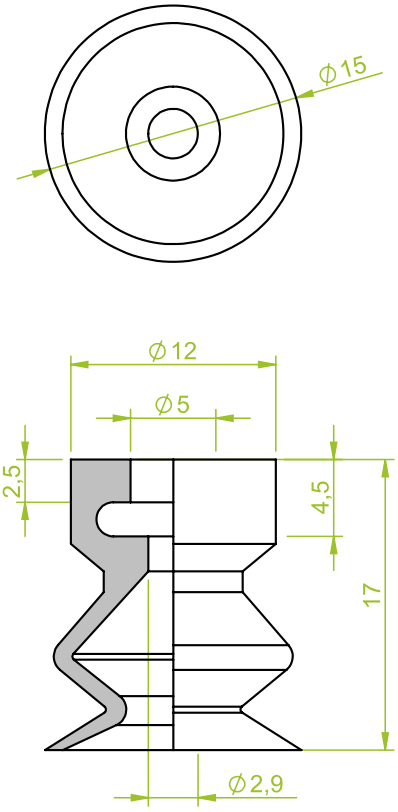


Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.007	1/8" IG
130.009	1/8" AG
130.010	M5 AG
130.301	M5 AG

5mm	0.7g

210.015.052._



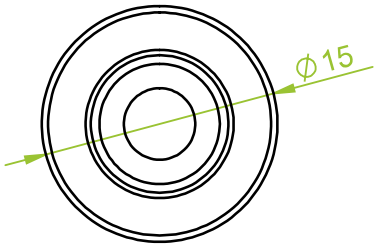
Materialcode
02 Silikon

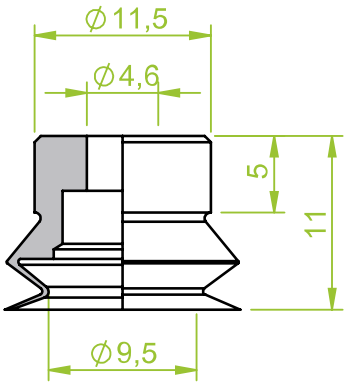
Halter *Fitting*	Gewinde *Thread*
130.064	1/8" AG
130.065	1/8" IG
130.200	M5 AG

7mm	1.5g

Balgensauger I *Bellow cups*

210.015.084._



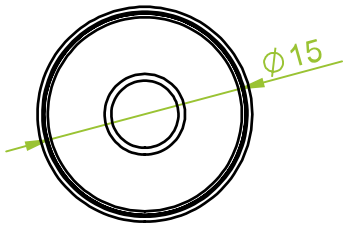


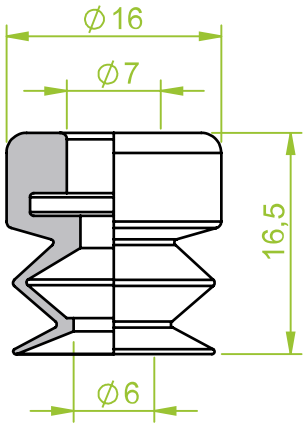
Materialcode
04 CR 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.301	M5 AG
130.310	M5 AG

3.5mm	1g

210.015.143._



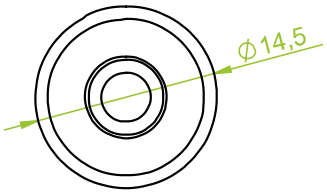


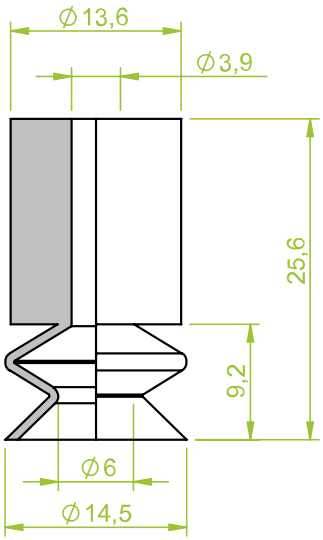
Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

6.5mm	1.8g

210.015.210._



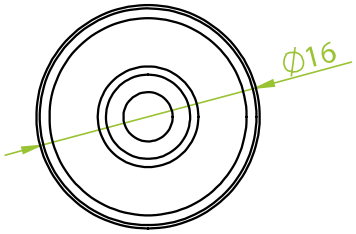


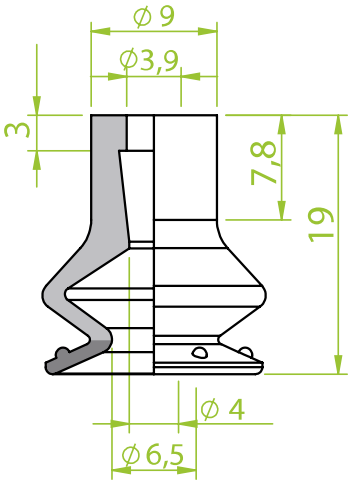
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.023	M5 AG
130.087	1/8" AG
130.134	M5 AG

4.5mm	3.1g

210.015.800._





Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.134	M5 AG

5.5mm	1.36g

MORALI VACTEC SYSTEMS

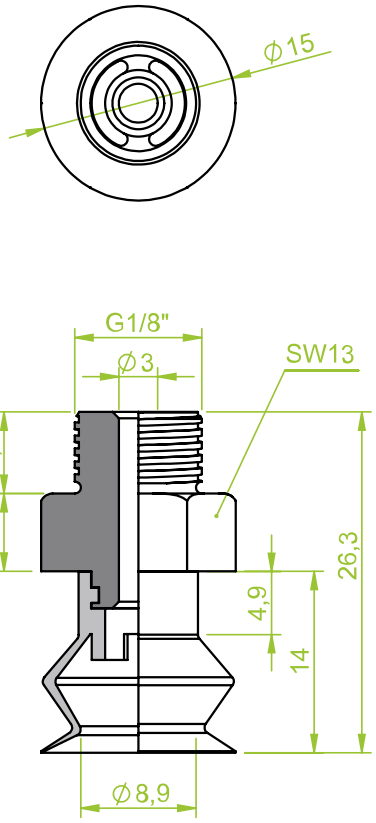
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

214.015.012._

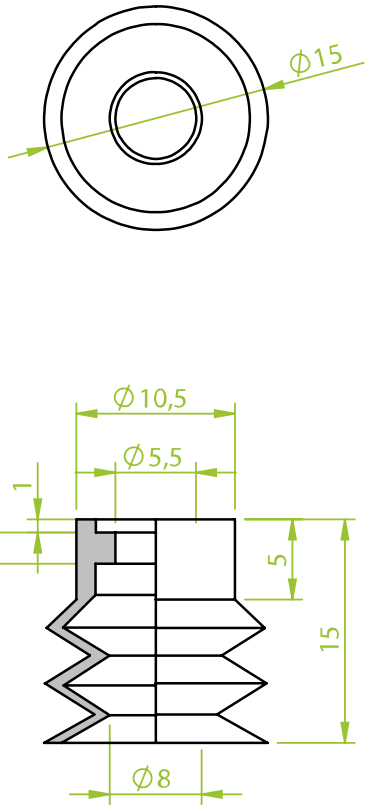


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

5.5mm	11g

220.015.022._

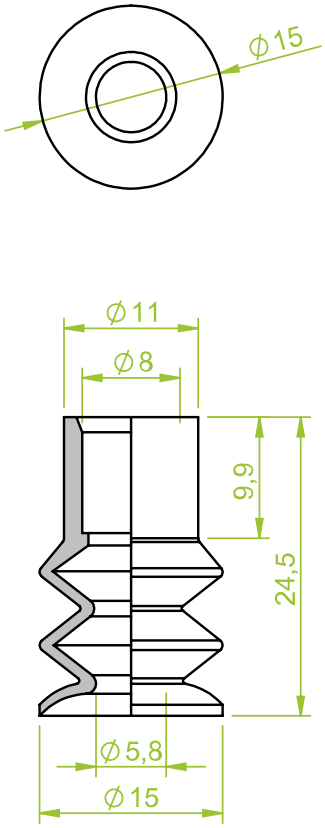


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094 130.095 130.096	M5 AG 1/8" AG 1/8" IG

5mm	0.8g

220.015.053._

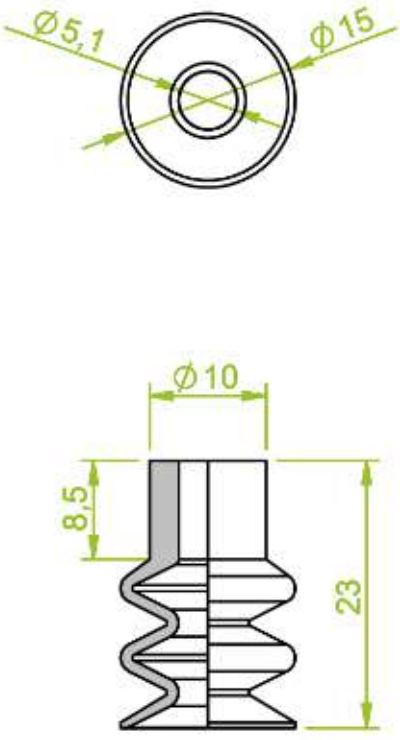


Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.112 130.113 130.114	1/8" AG 1/4" AG 1/8" IG

7mm	1.6g

220.015.132._



Materialcode
02 Silikon

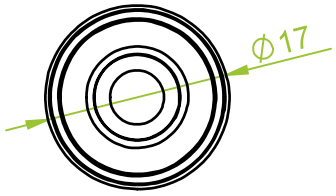
Halter *Fitting*	Gewinde *Thread*
130.013 130.109 130.238	M5 AG 1/8" IG 1/8" AG

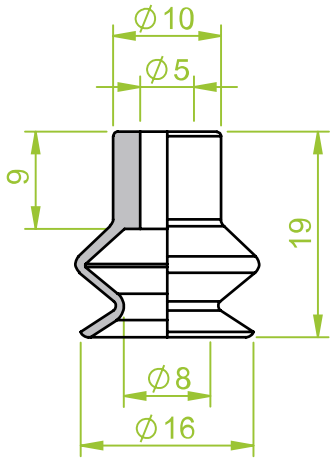
7mm	1.6g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.016.002._



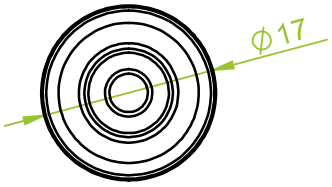


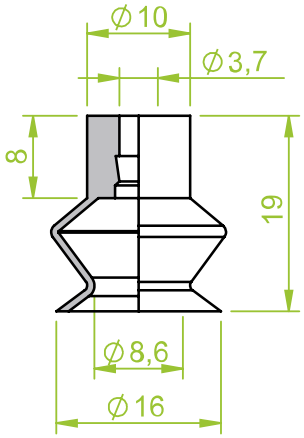
Materialcode
06 EPDM
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

6mm	1.2g

210.016.009._



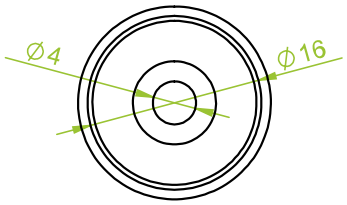


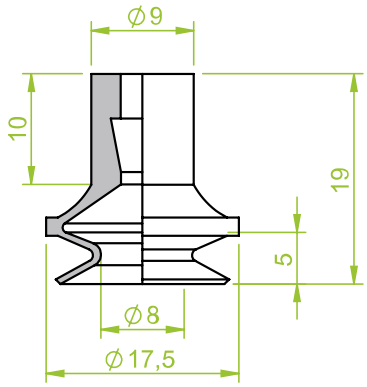
Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.104	M6 AG
130.134	M5 AG

6mm	1.2g

210.016.026._



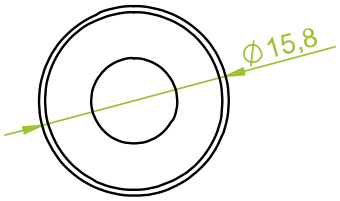


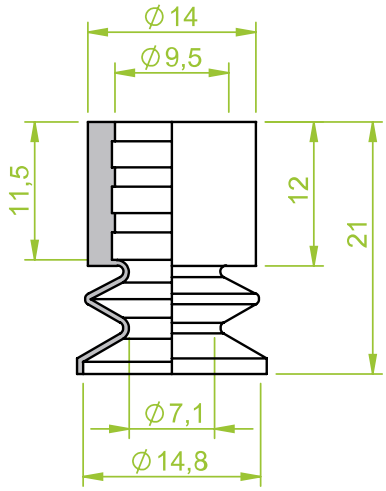
Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.591	M5 AG

5mm	1.2g

210.016.063._





Materialcode
03 NR
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.193	1/4" AG
130.244	M5 AG

6mm	1.6g

MORALI VACTEC SYSTEMS

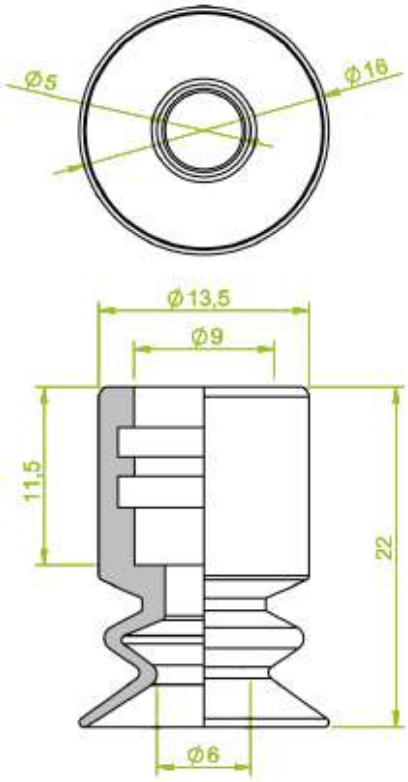
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.016.086._

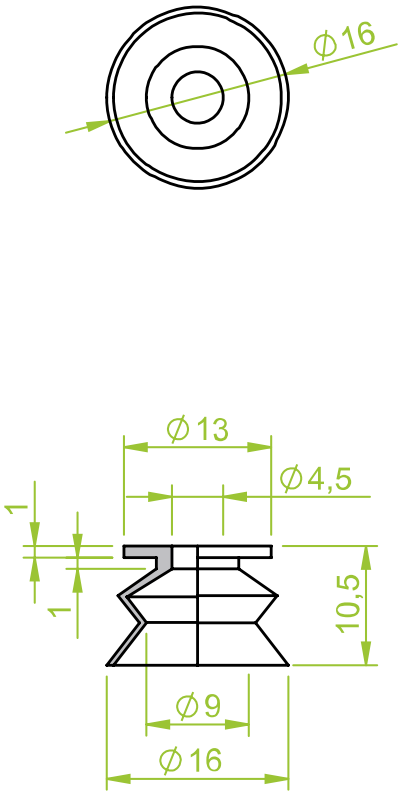


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.244	M5 AG

6mm	1.5g

210.016.156._

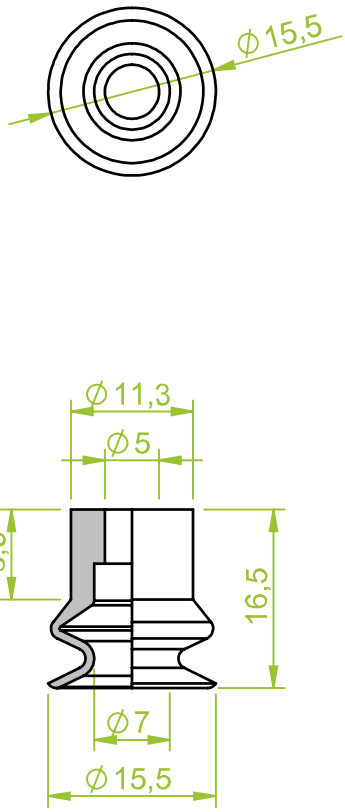


Materialcode
04 CR 03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.007 130.009 130.010	M5 IG 1/8" IG 1/8" AG M5 AG

6mm	0.6g

210.016.205._

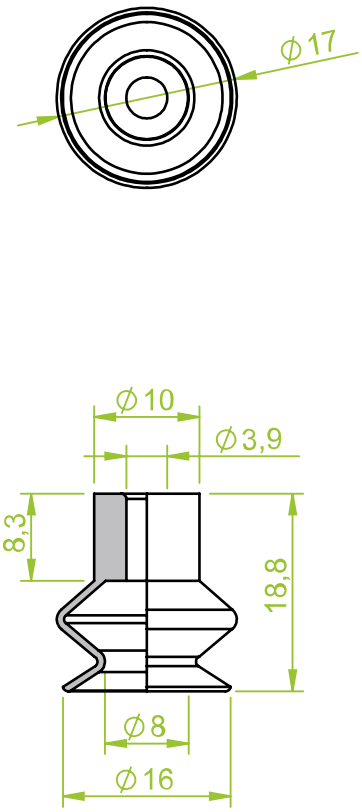


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.013 130.094	M5 AG M5 AG

4.5mm	1.4g

210.016.207._



Materialcode
02 Silikon

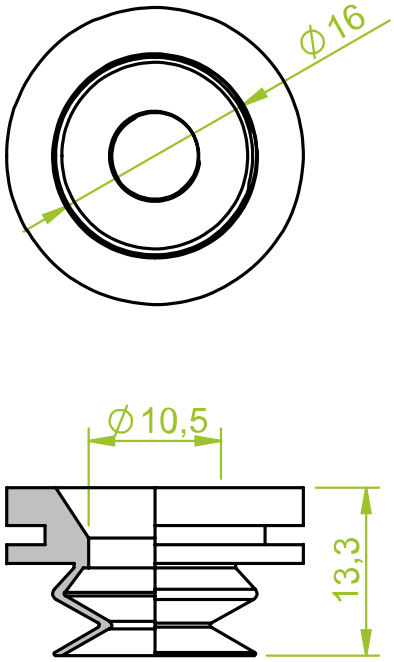
Halter *Fitting*	Gewinde *Thread*
130.003 130.013 130.015 130.103	1/8" AG M5 AG 1/8" IG M6 AG

6mm	1.2g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.016.220._

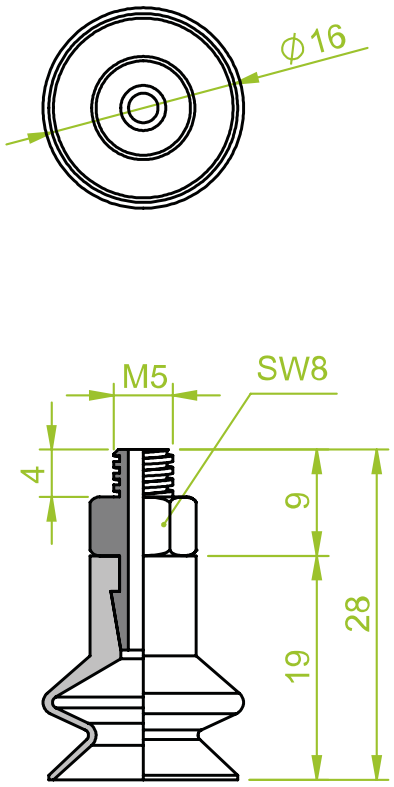


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.311	M5 AG
130.312	M6 AG

6mm	0.8g

212.016.012._

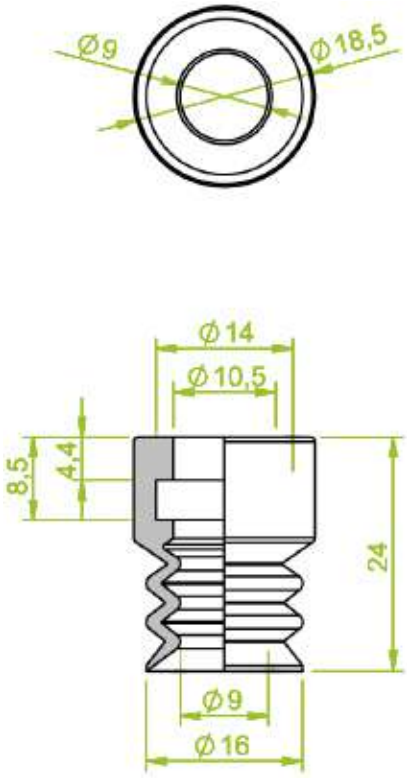


Materialcode
04 CR 03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	1.2g

220.016.054._

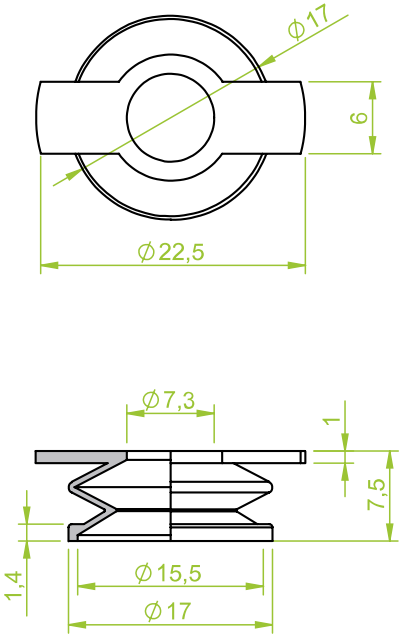


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.177	M10 AG
130.181	1/8" AG

9mm	3g

210.017.007._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

5.5mm	0.8g

MORALI VACTEC SYSTEMS

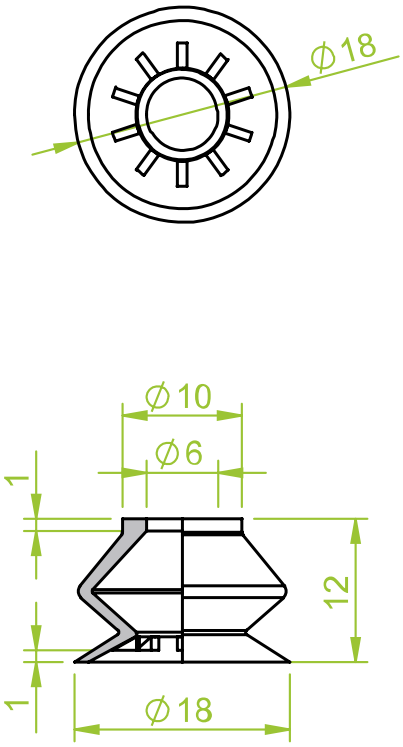
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.018.067._

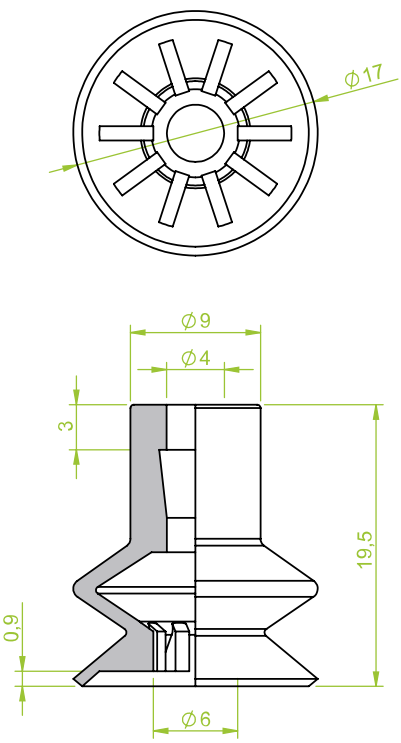


Materialcode
04 CR 03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.040	M8 AG
130.077	1/8" AG
130.105	M6 AG

5.5mm	0.6g

210.018.068._

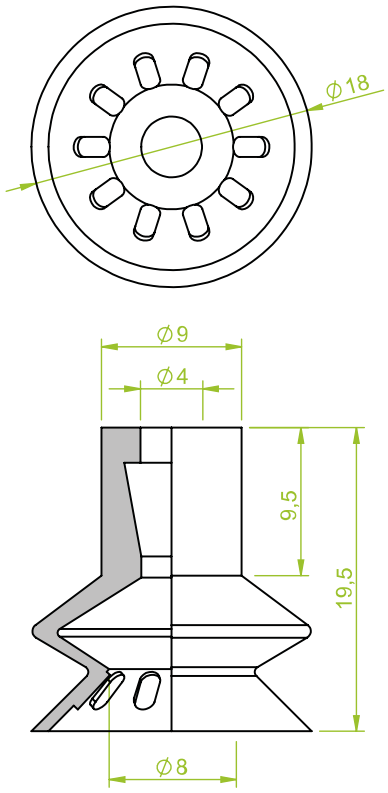


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.317	M5 AG

5.5mm	2g

210.018.069._

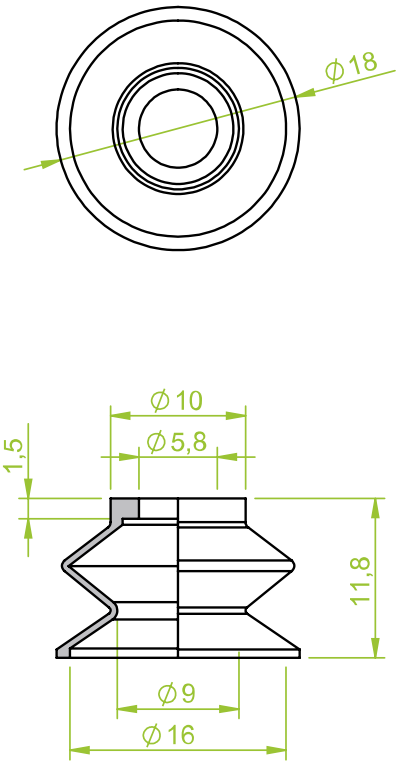


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.015	1/8" IG
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.317	M5 AG

7mm	1.2g

210.018.070._



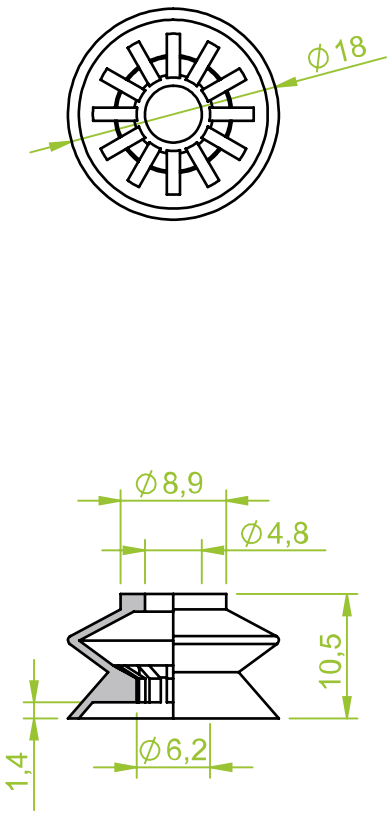
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG
130.040	M8 AG
130.077	1/8" AG

8mm	0.8g

Balgensauger I *Bellow cups*

210.018.071._

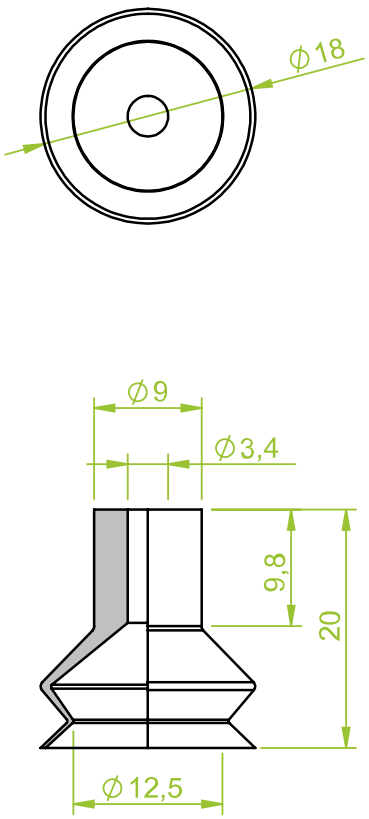


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.021	1/8" AG

5.5mm	0.8g

210.018.097._

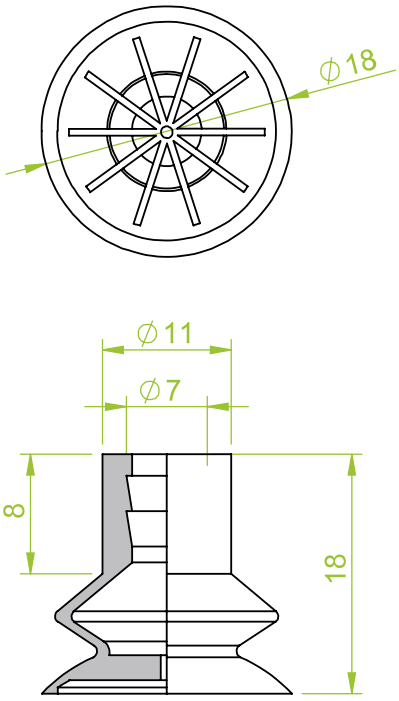


Materialcode
03 NR 05 Polyurethan 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.033 130.109 130.134 130.238	1/8" AG 1/8" IG M5 AG 1/8" AG

6mm	1.2g

210.018.178._

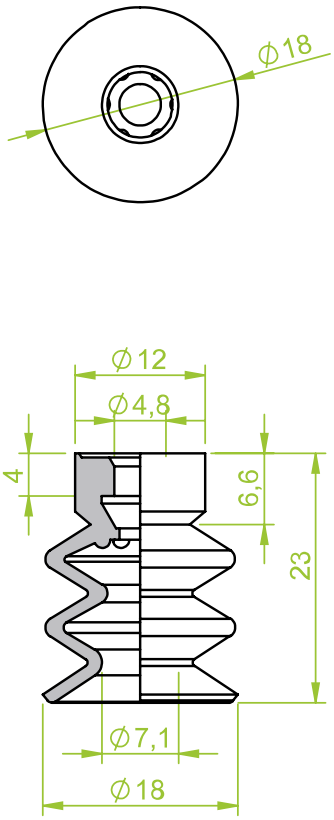


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.238 130.504 130.560 130.566 130.630	1/8" AG 1/4" AG M5 AG M5 AG 1/8" AG

6mm	2g

220.018.001._



Materialcode
06 EPDM 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.005 130.013 130.015 130.103 130.109 130.238	M5 IG M5 AG 1/8" IG M6 AG 1/8" IG 1/8" AG

8mm	2g

MORALI VACTEC SYSTEMS

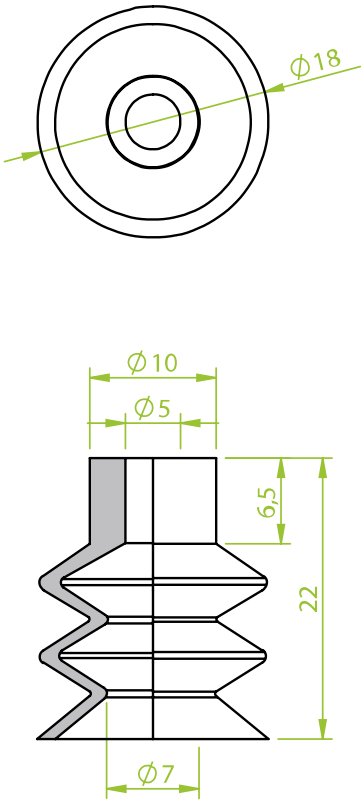
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

220.018.005._

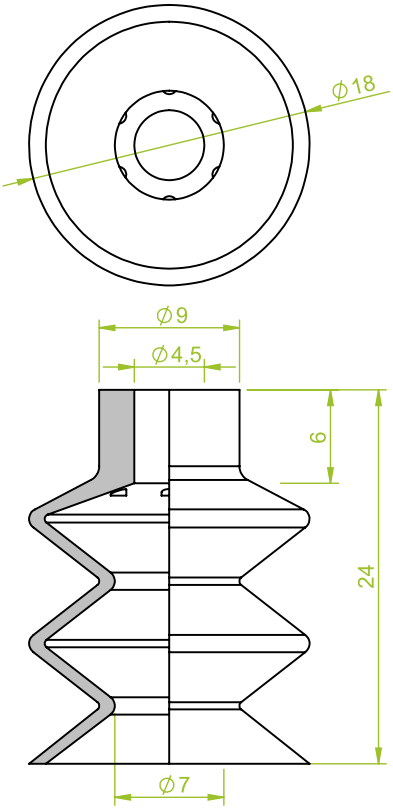


Materialcode
04 CR 06 EPDM 07 FKM 09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.105	M6 AG
130.194	1/4" AG
130.275	1/4" IG
130.537	M5 AG

8mm	1.09g

220.018.012._

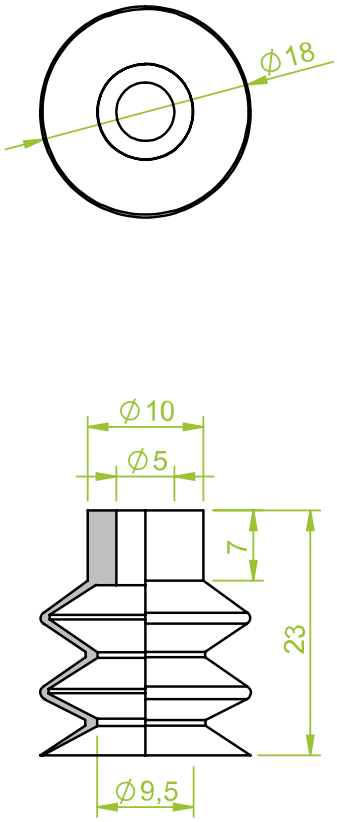


Materialcode
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.033	1/8" AG
130.104	M6 AG

12mm	2.2g

220.018.030._

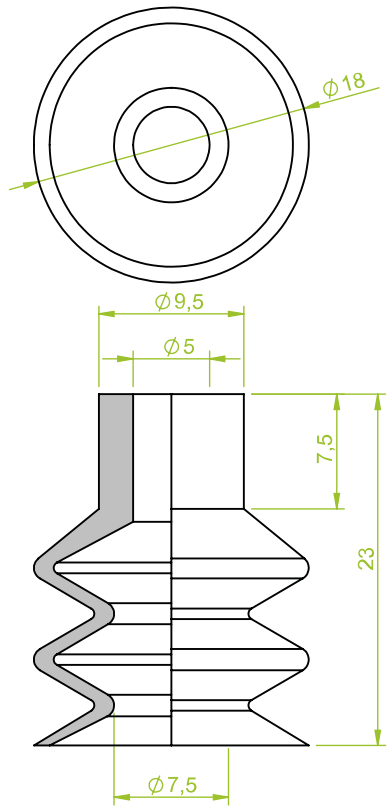


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

11mm	2.4g

220.018.041._



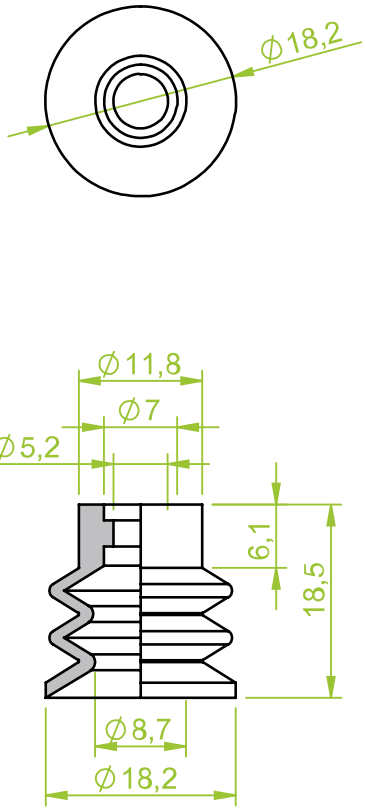
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.010	M5 AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

9mm	2.3g

Balgensauger I *Bellow cups*

220.018.055._

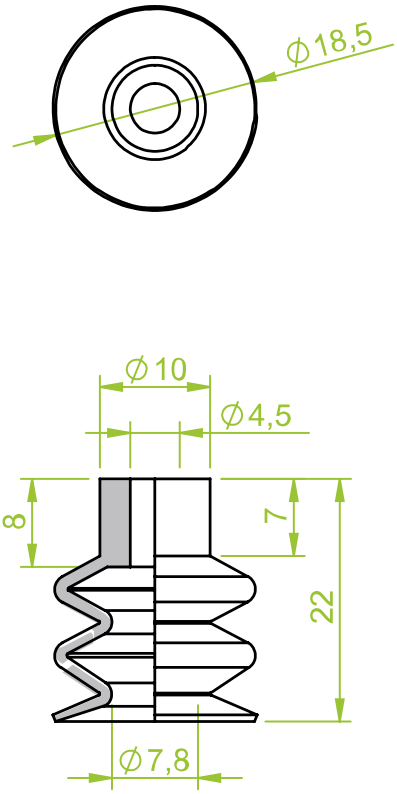


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG

7mm	1.2g

220.018.063._

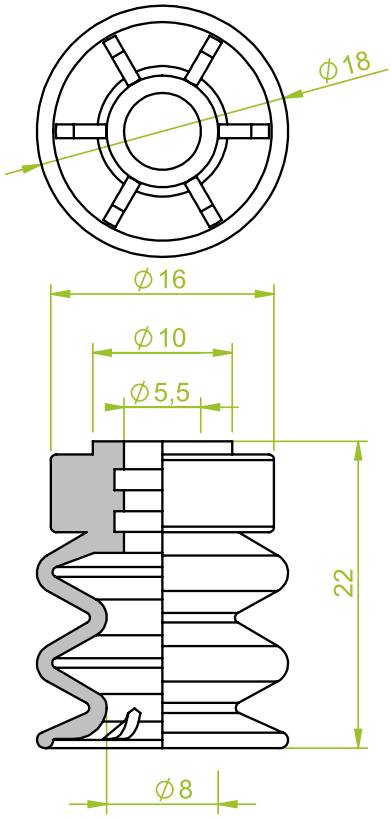


Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG
130.275	1/4" IG

8mm	1.8g

220.018.066._

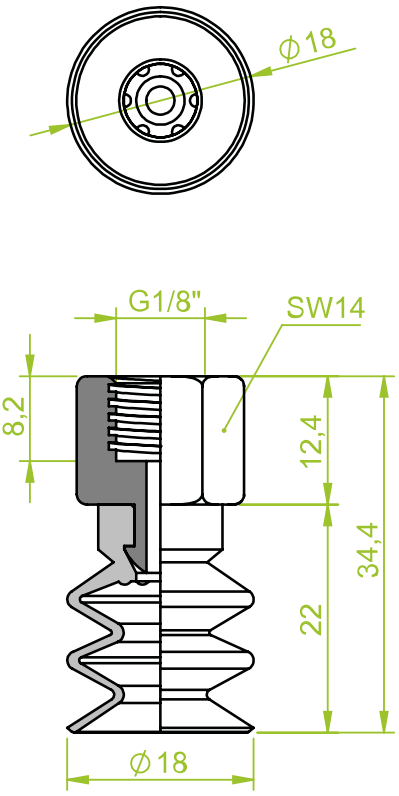


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.110	1/8" IG
130.238	1/8" AG

10mm	2.5g

221.018.005._



Materialcode
06 EPDM
09 HNBR
03 NR
05 Polyurethan

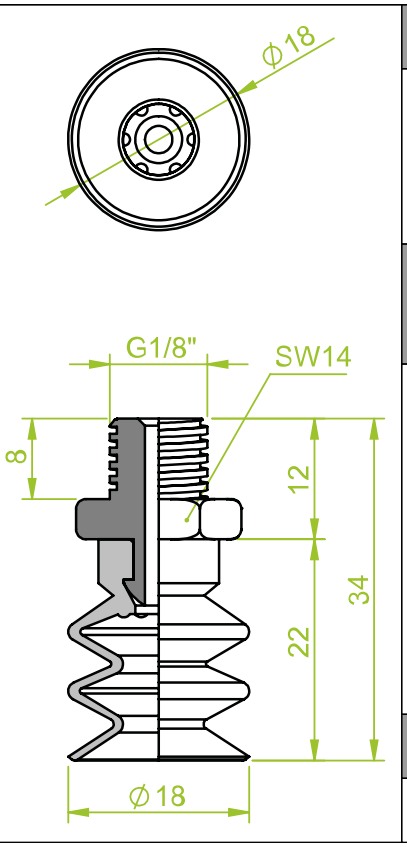
Halter *Fitting*	Gewinde *Thread*

8mm	2g

221.018.027._

Materialcode	Halter *Fitting*	Gewinde *Thread*	
03 NR			
		8mm	1.7g

222.018.003._

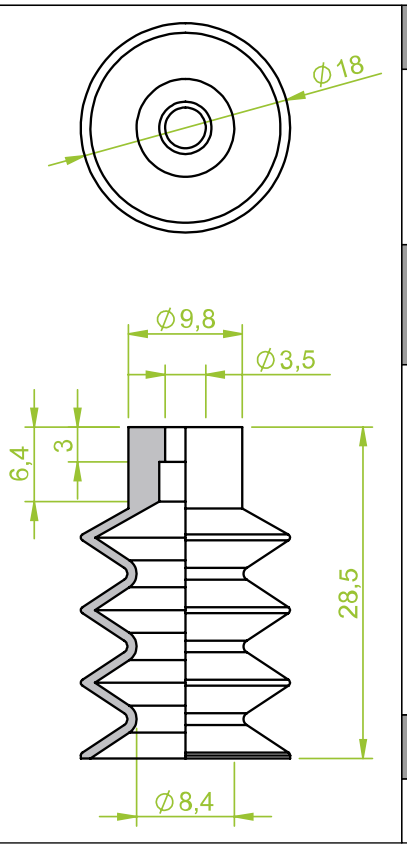


Materialcode	Halter *Fitting*	Gewinde *Thread*	
06 EPDM 09 HNBR 03 NR 05 Polyurethan			
		8mm	2g

222.018.012._

Materialcode	Halter *Fitting*	Gewinde *Thread*	
		8mm	2.5g

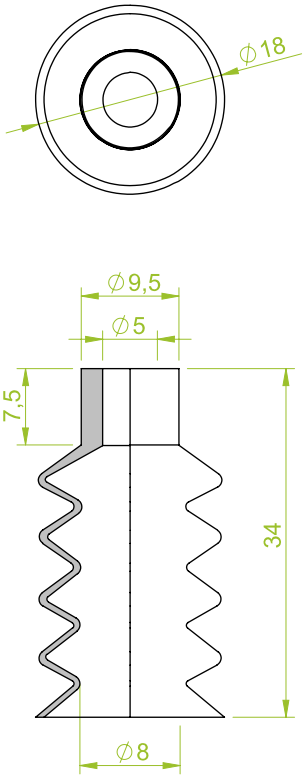
230.018.014._



Materialcode	Halter *Fitting*	Gewinde *Thread*	
02 Silikon			
	130.015 130.104 130.134	1/8" IG M6 AG M5 AG	
		125mm	1.9g

Balgensauger I *Bellow cups*

240.018.010._

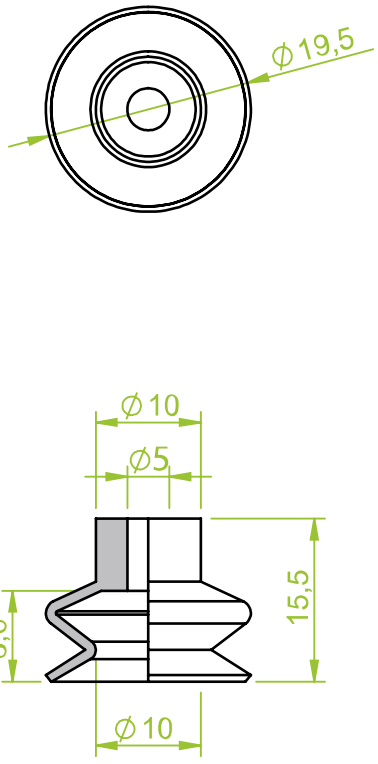


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG
130.109	1/8" IG
130.194	1/4" AG

14mm	2.4g

210.019.044._

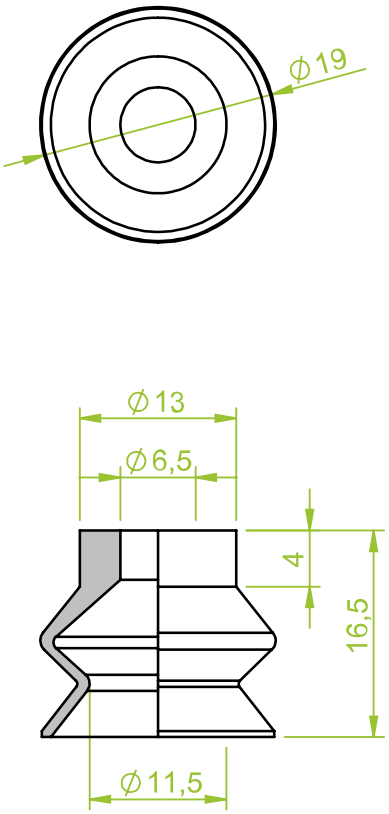


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.033	1/8" AG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG

4mm	1.7g

210.019.059._

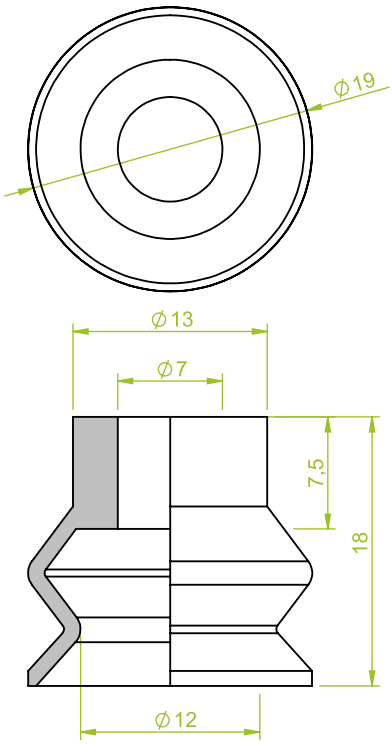


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG
130.059	1/8" AG

7mm	1.6g

210.019.060._



Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.059	1/8" AG

8mm	1.8g

MORALI VACTEC SYSTEMS

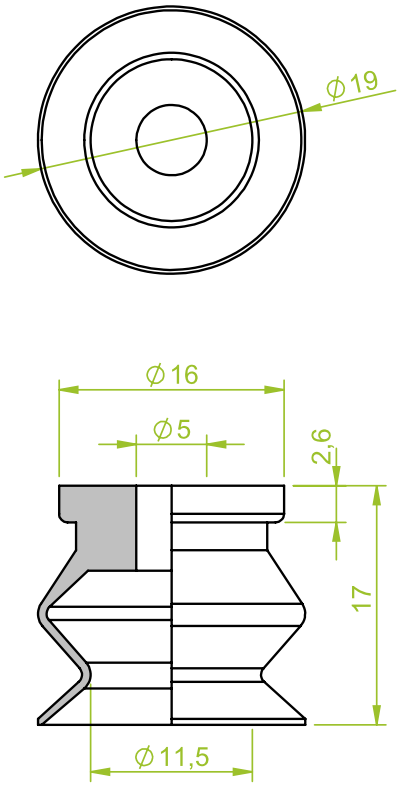
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.019.093._

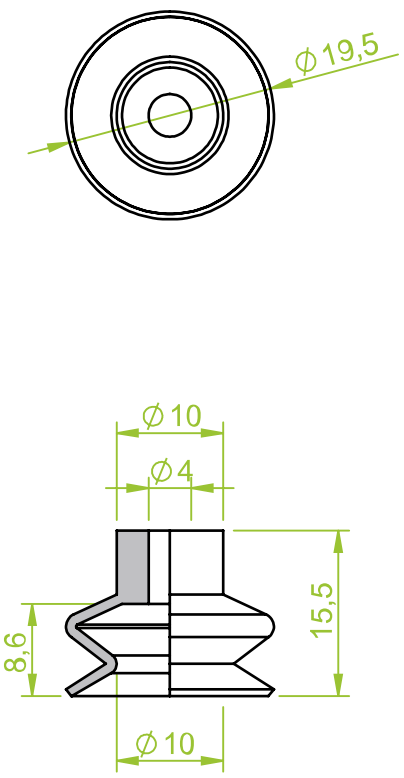


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.039	M6 AG
130.103	M6 AG

8mm	2g

210.019.155._

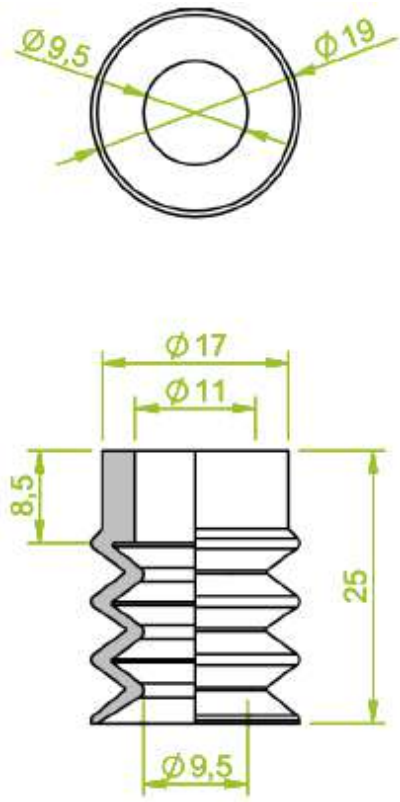


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG

4mm	1.7g

230.019.003._

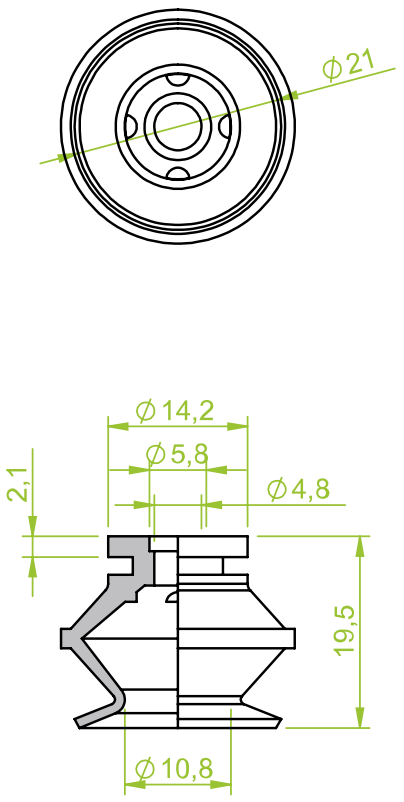


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG

10mm	2g

210.020.031._



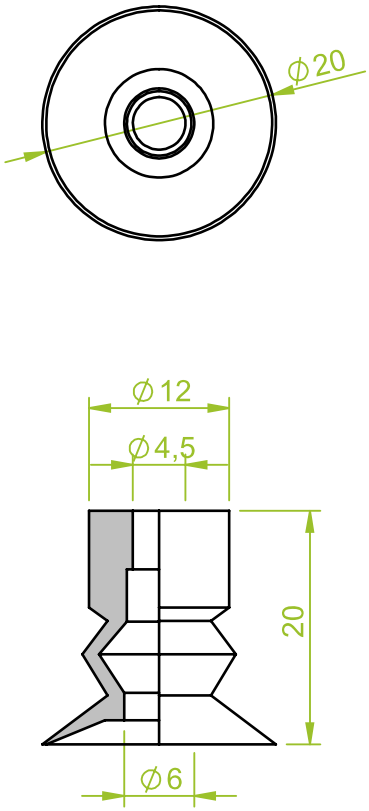
Materialcode
04 CR 06 EPDM 07 FKM 09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.135	1/8" AG
130.291	1/8" AG
130.507	1/8" AG

9mm	2.5g

Balgensauger I *Bellow cups*

210.020.037._

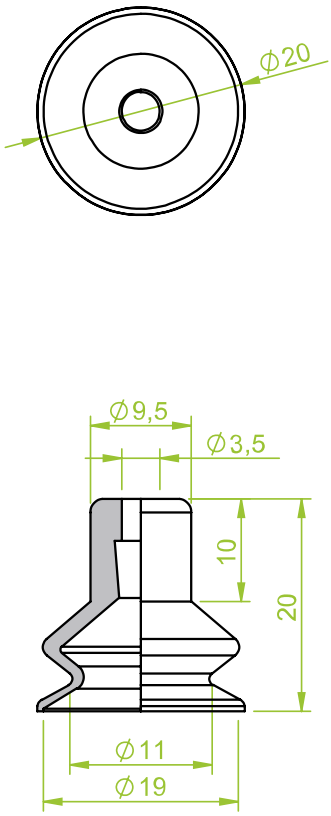


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.205	1/8" AG
130.317	M5 AG

6mm	2g

210.020.053._

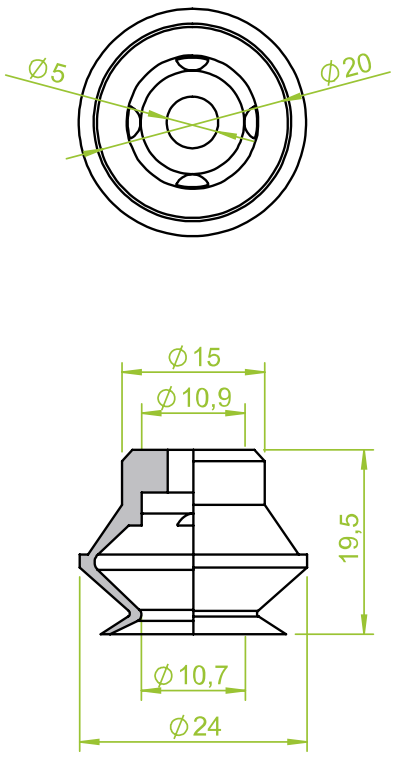


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG
130.347	M5 IG

6mm	1.5g

210.020.054._

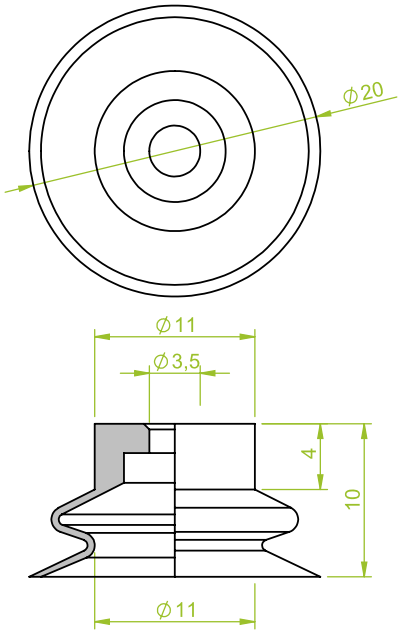


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.063	1/8" AG
130.311	M5 AG
130.312	M6 AG

8mm	2.4g

210.020.094._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.010	M5 AG
130.310	M5 AG

2mm	0.5g

MORALI VACTEC SYSTEMS

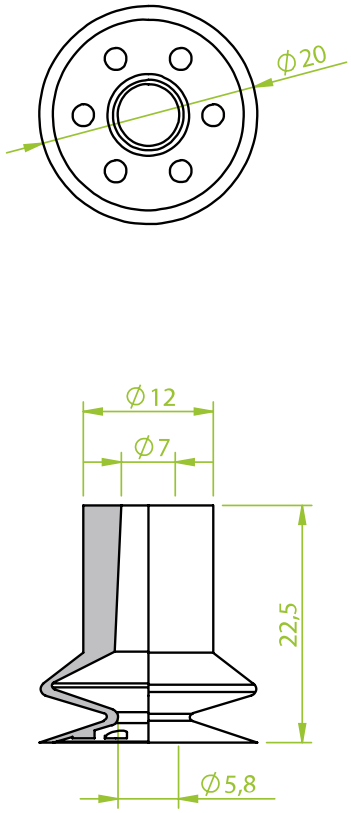
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.020.095._

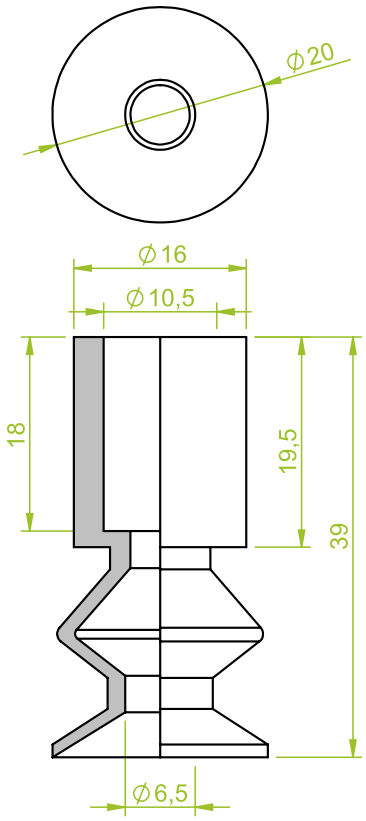


Materialcode

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.043	1/4" AG
130.113	1/4" AG
130.275	1/4" IG

5mm	2.6g

210.020.102._

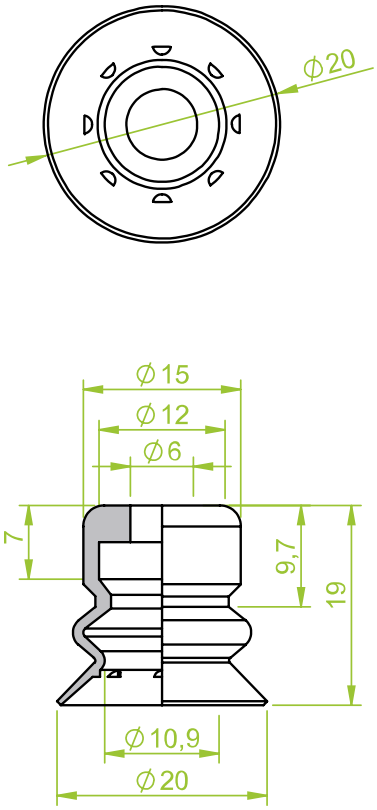


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG

10mm	4g

210.020.104._

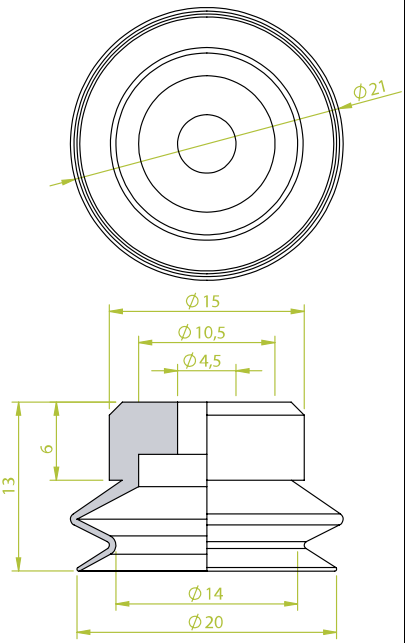


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.311	M5 AG
130.312	M6 AG

7mm	2.4g

210.020.150._



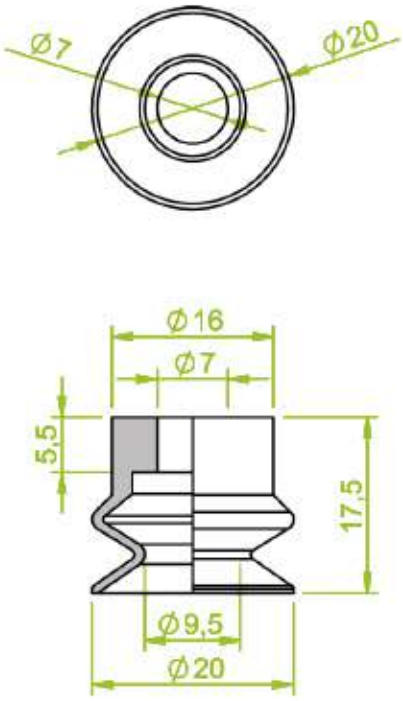
Materialcode
04 CR 07 FKM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.010	M5 AG
130.061	1/8" IG
130.063	1/8" AG
130.311	M5 AG

4mm	1.6g

Balgensauger I *Bellow cups*

210.020.161._

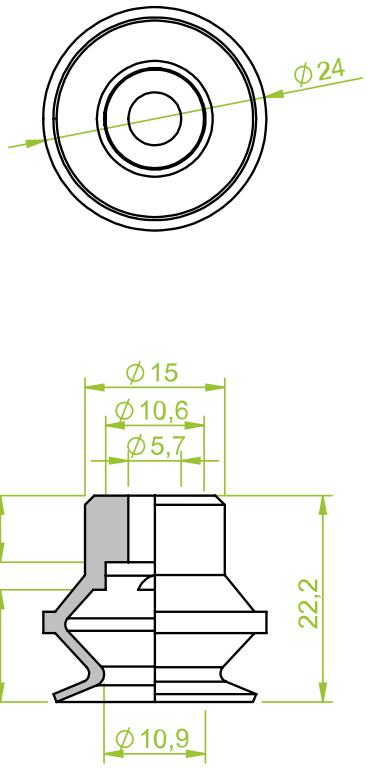


Materialcode
05 Polyurethan 20 TPU V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.251 130.311 130.312	1/8" IG M5 AG M6 AG

6mm	2g

210.020.169._

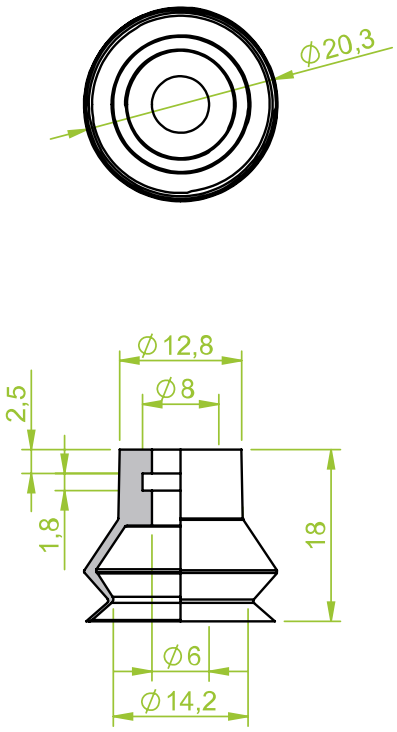


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.312	M6 AG

7mm	2.4g

210.020.181._

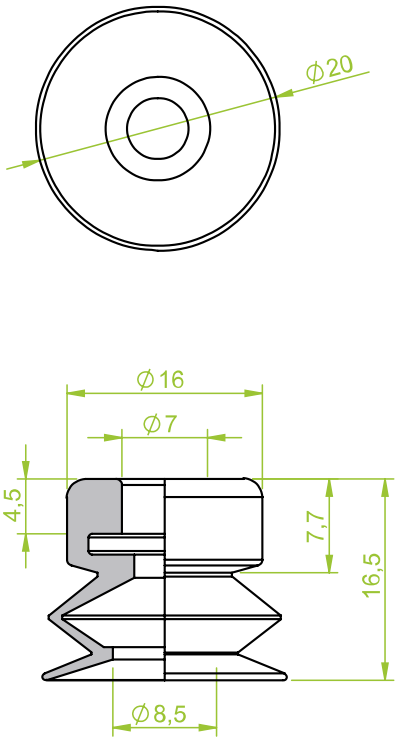


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.504 130.560 130.566 130.630	1/4" AG M5 AG M5 AG 1/8" AG

6mm	1.7g

210.020.185._

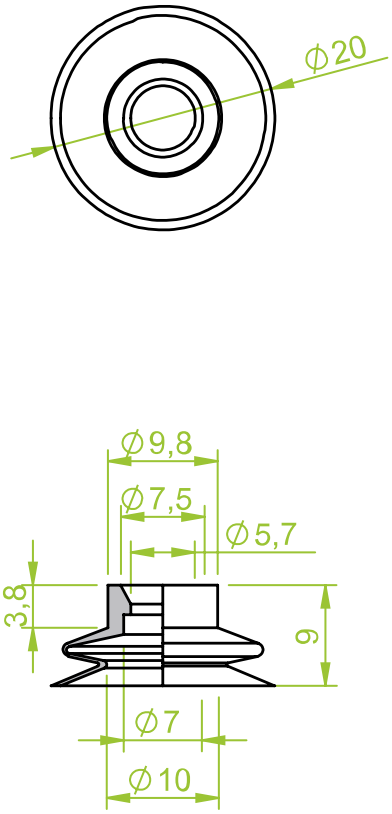


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.604 130.605 130.606	M5 AG 1/8" AG 1/4" AG

6mm	1.9g

210.020.190._

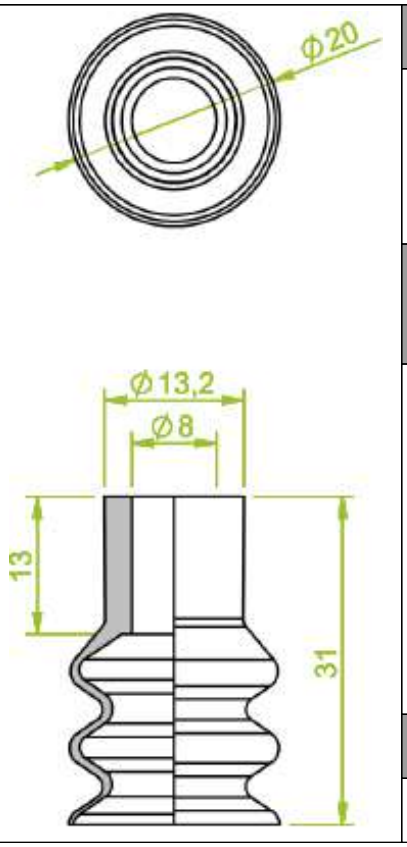


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

3mm	0.5g

210.020.217._

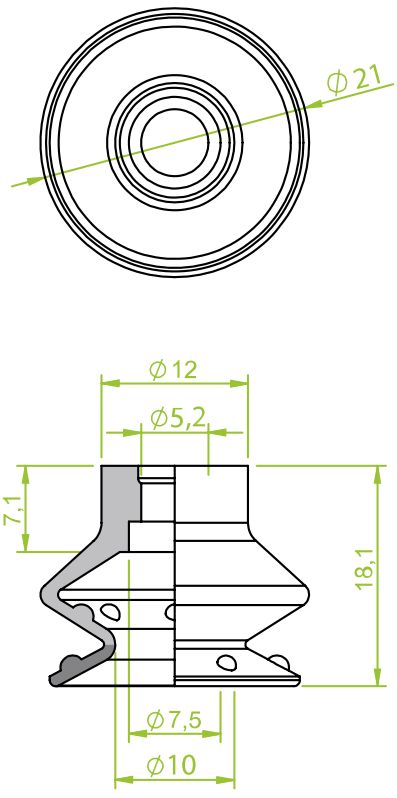


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

210.020.801._

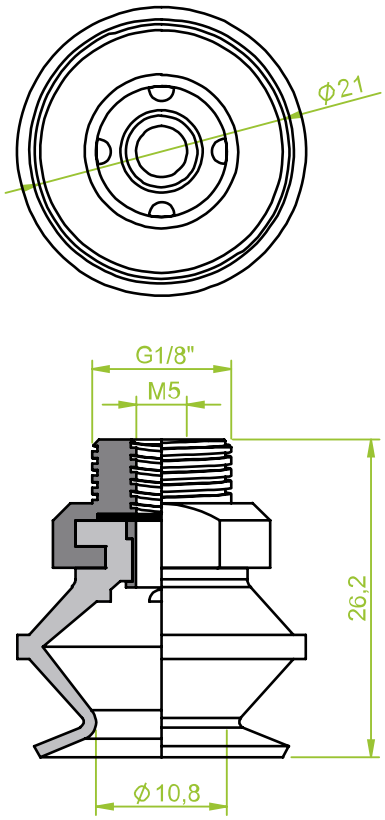


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.094 130.095 130.291	M5 AG 1/8" AG 1/8" AG

7.6mm	2.04g

211.020.002._



Materialcode
09 HNBR 02 Silikon

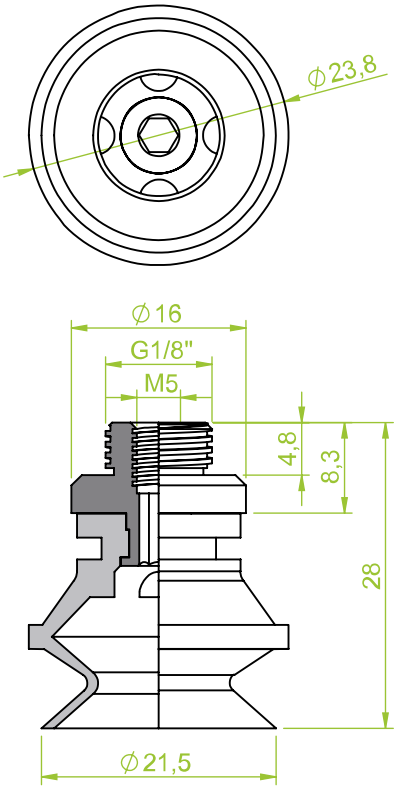
Halter *Fitting*	Gewinde *Thread*

9mm	4.8g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

211.020.010._

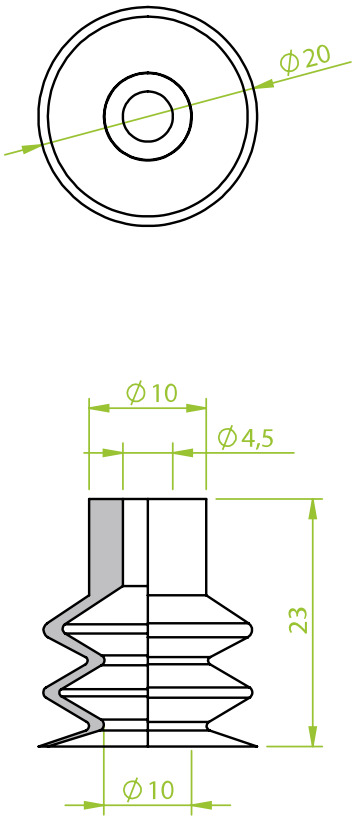


Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*

9mm	2.5g

220.020.002._

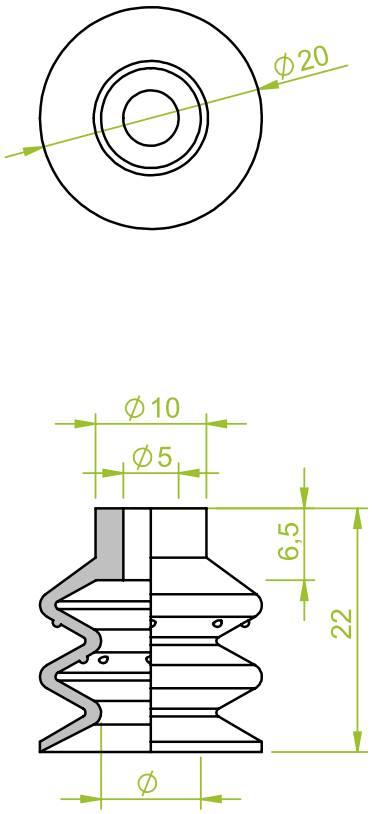


Materialcode
04 CR
06 EPDM
07 FKM
09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

8mm	2.1g

220.020.059._

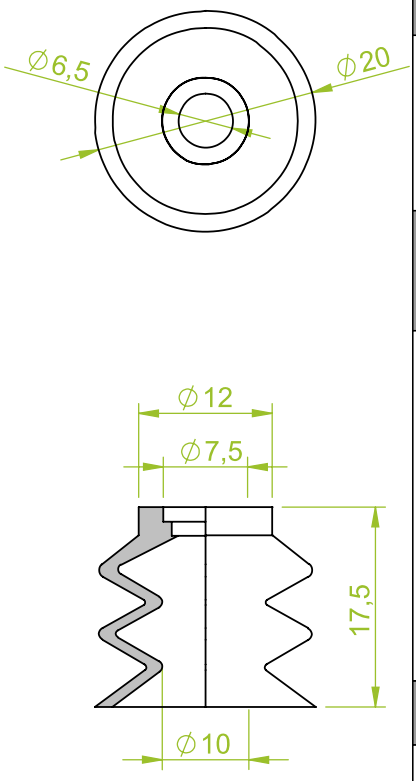


Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.134	M5 AG
130.238	1/8" AG

11mm	2.2g

220.020.060._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.039	M6 AG
130.247	M8 AG

9mm	2g

MORALI VACTEC SYSTEMS

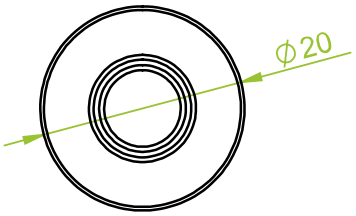
Morali Produktionstechnik GmbH
Handling technology

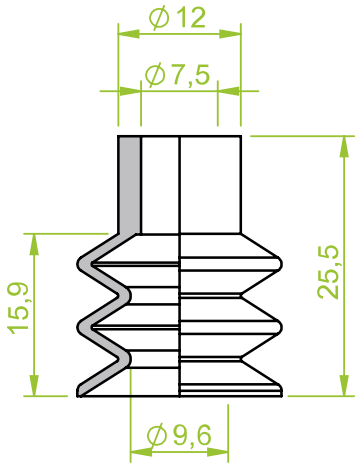
Stadtweg 30
D-78658 Zimmern o.R.

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

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

220.020.062._



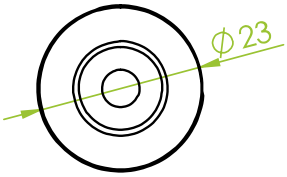


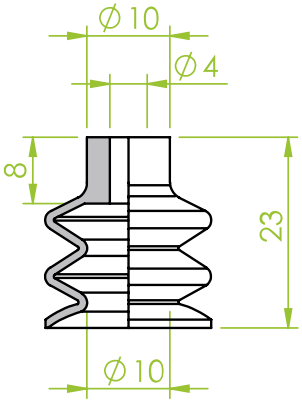
Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.178	1/4" IG

10mm	2.4g

220.020.107._



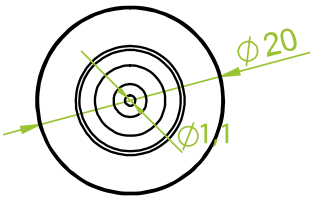


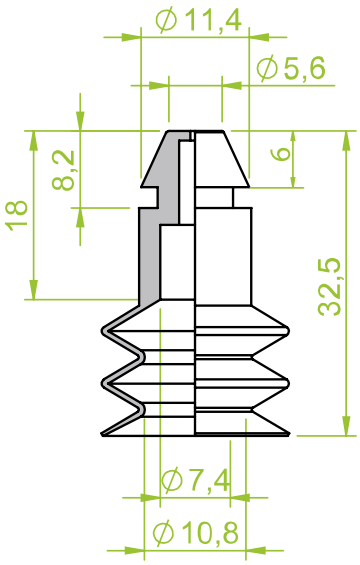
Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

8mm	2.2g

220.020.111._



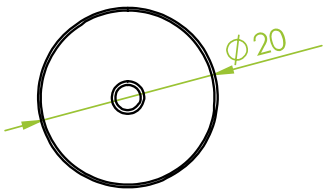


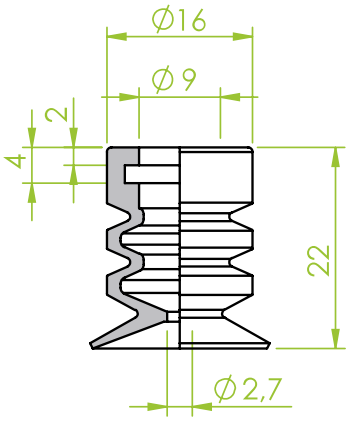
Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	3g

220.020.128._





Materialcode
02 Silikon

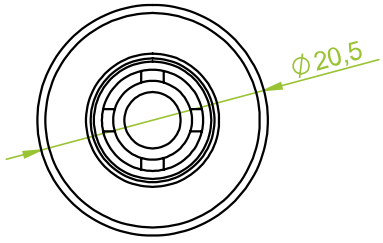
Halter *Fitting*	Gewinde *Thread*

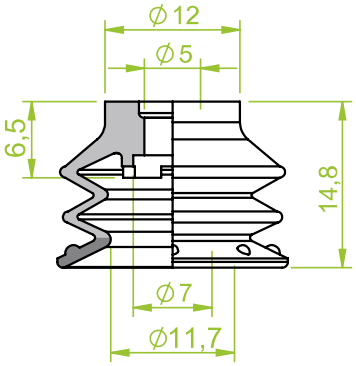
9mm	2.1g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

220.020.800._



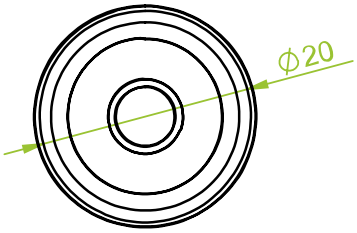


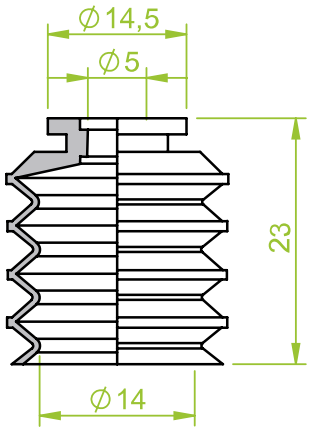
Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.095 130.291	1/8" AG 1/8" AG

6.5mm	1.6g

240.020.002._



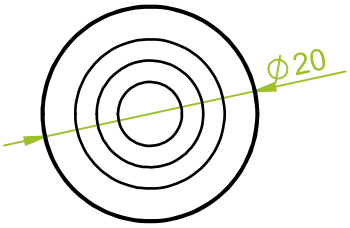


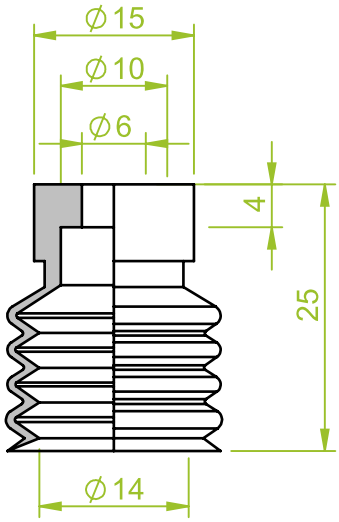
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.135 130.291 130.507	1/8" AG 1/8" AG 1/8" AG

16mm	2g

240.020.012._



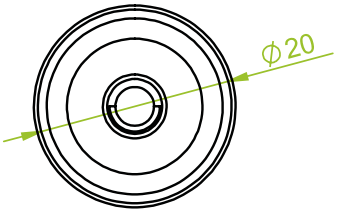


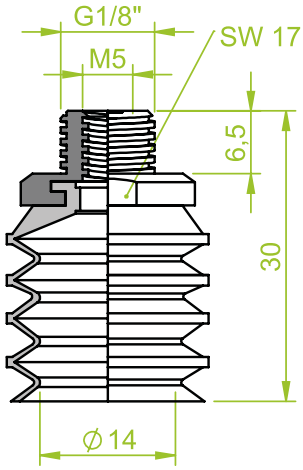
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.312	M6 AG

10mm	2g

241.020.001._





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

16mm	6.4g

MORALI VACTEC SYSTEMS

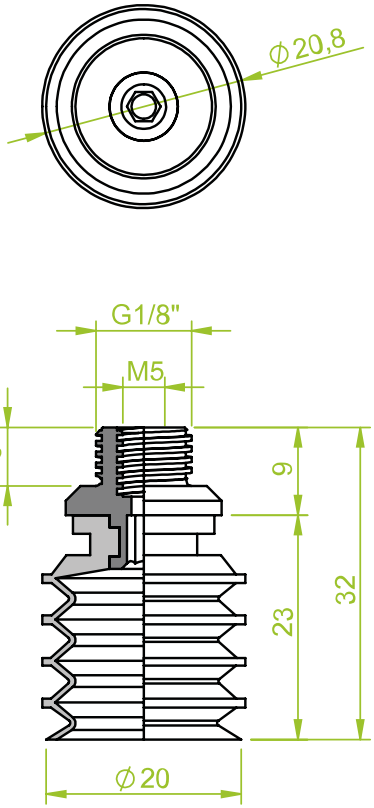
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

241.020.005._

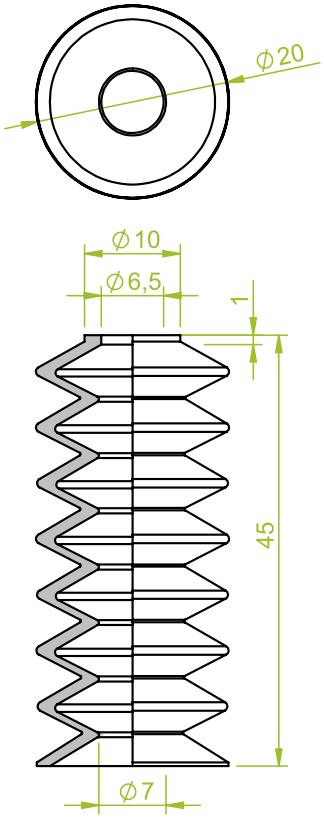


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

16mm	2g

250.020.002._

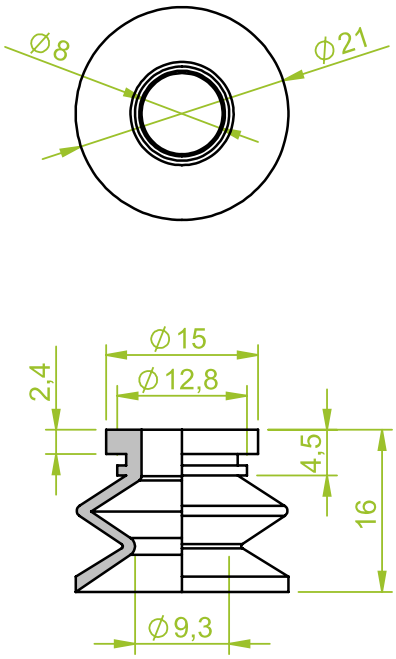


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.040	M8 AG
130.077	1/8" AG
130.105	M6 AG

26mm	4.3g

210.021.216._

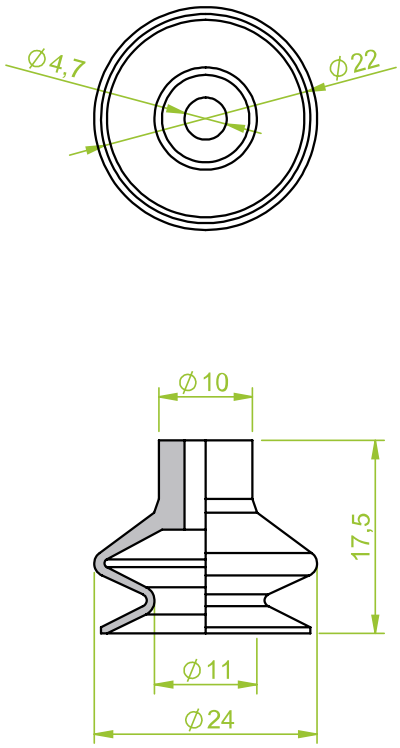


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	1.5g

210.022.021._



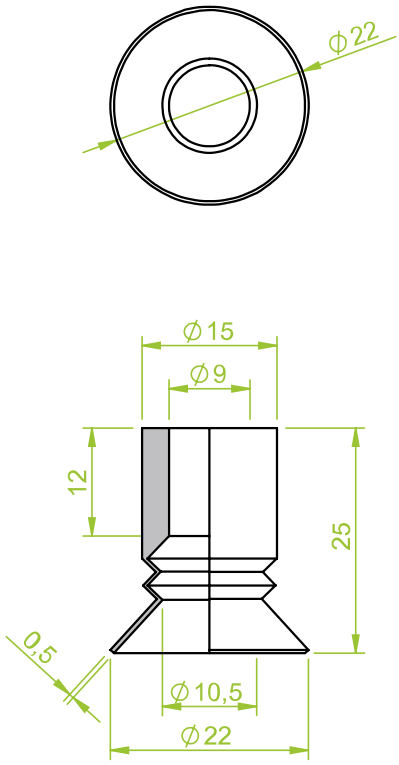
Materialcode
04 CR 06 EPDM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

8mm	2g

Balgensauger I *Bellow cups*

210.022.142._

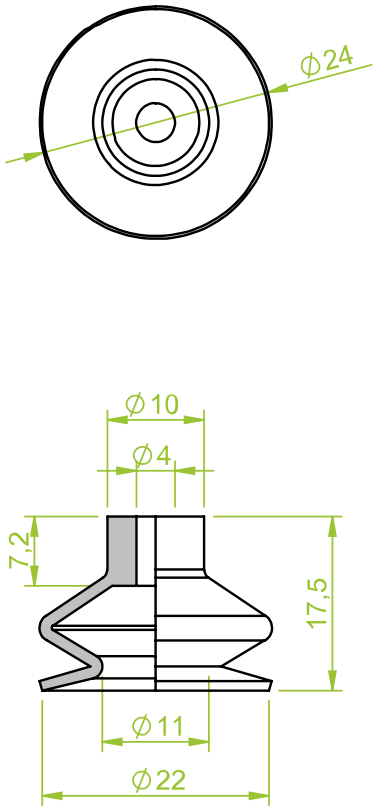


Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.132	1/8" AG
130.208	1/4" AG

8mm	2g

210.022.177._

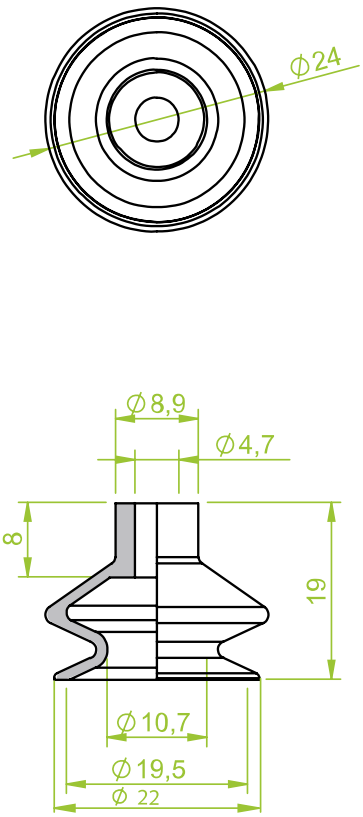


Materialcode
04 CR
09 HNBR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

8mm	2g

210.022.182._

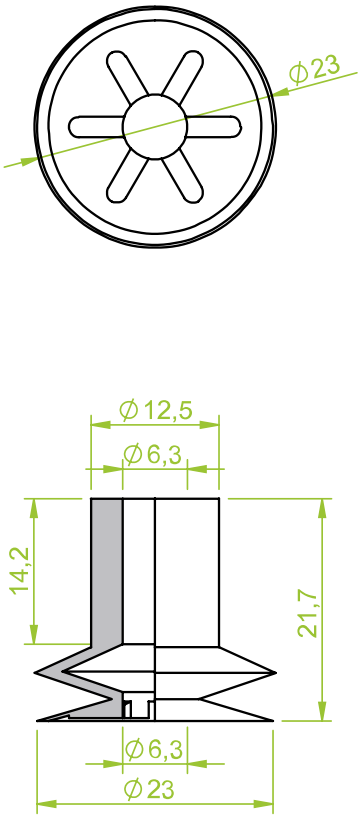


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG

8mm	2g

210.023.014._

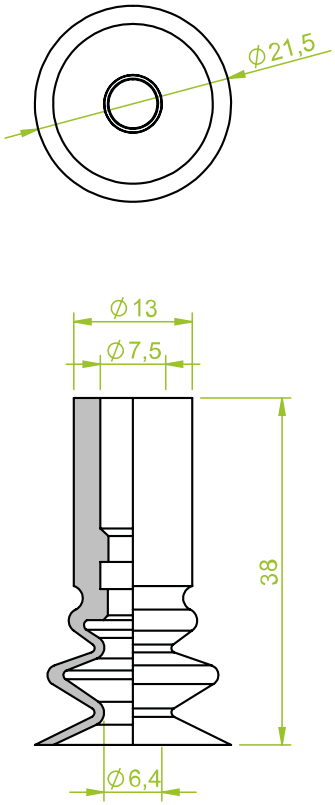


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.110	1/8" IG
130.238	1/8" AG

5mm	2.2g

220.023.067._

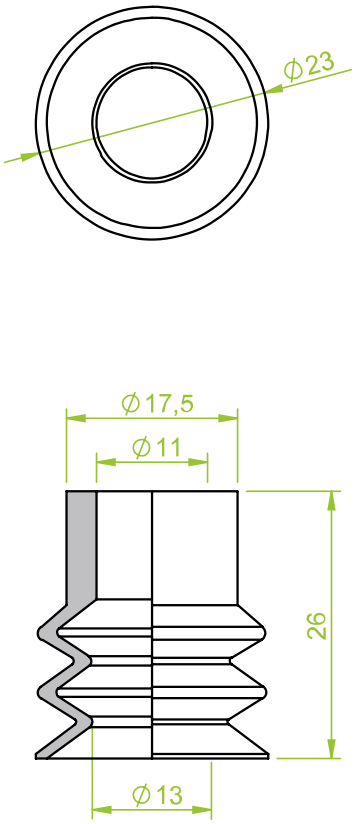


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.178	1/4" IG

12mm	4.2g

220.023.070._

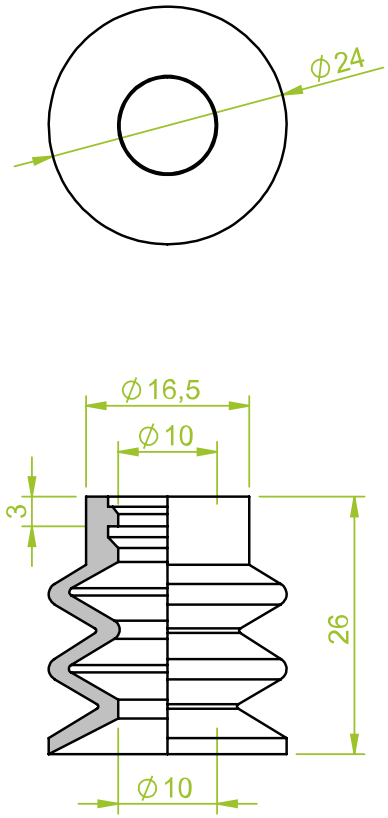


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.177	M10 AG
130.609	1/4" AG

9mm	3.8g

220.024.068._

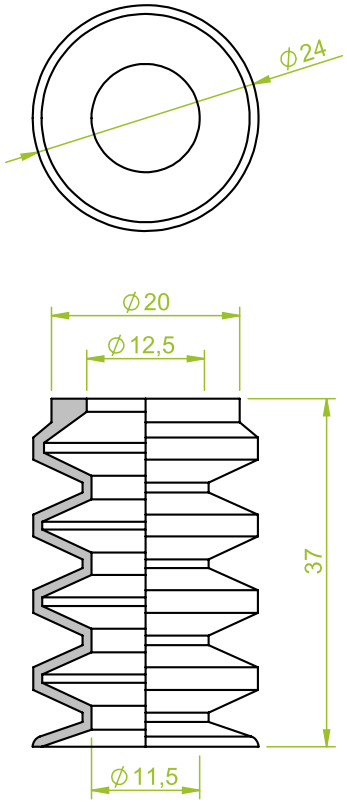


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG

10mm	4g

240.024.013._



Materialcode
02 Silikon

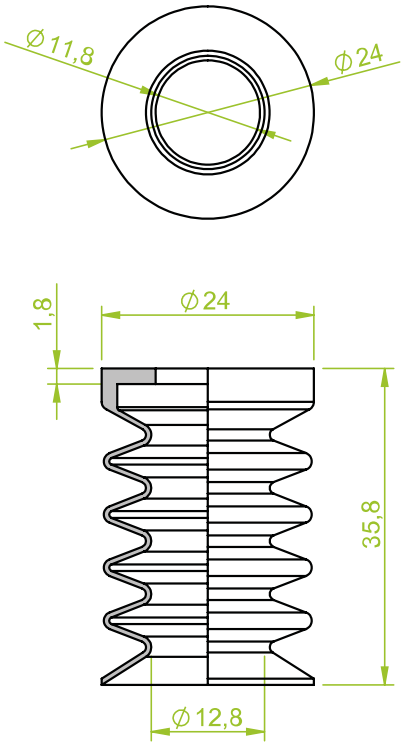
Halter *Fitting*	Gewinde *Thread*
130.233	1/8" IG

20mm	5g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

240.024.029._

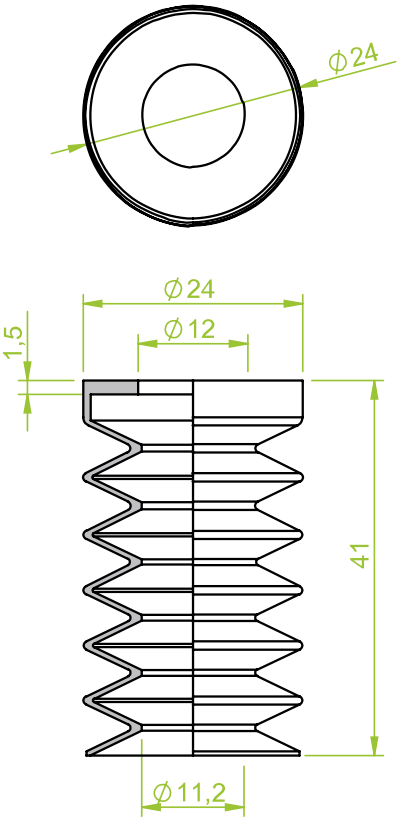


Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	4.3g

250.024.013._

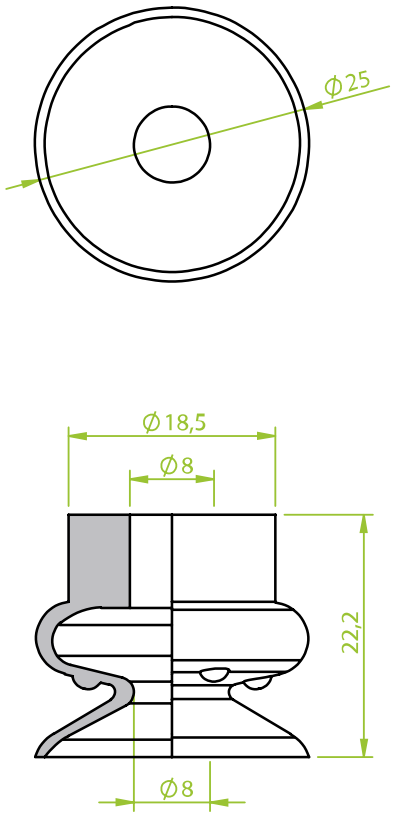


Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	1.6g

210.025.065._

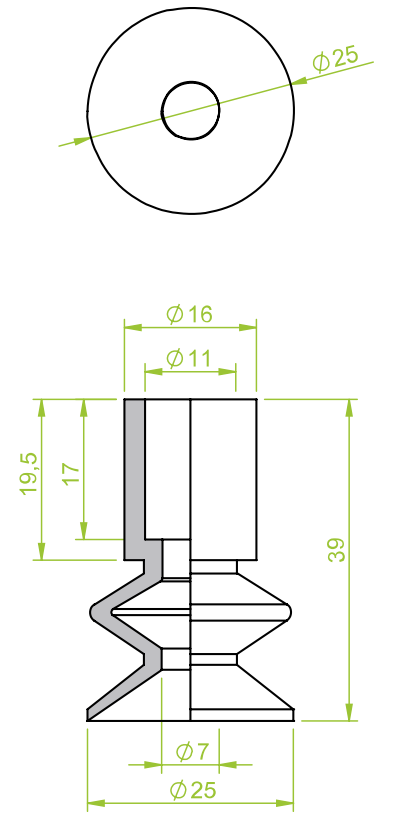


Materialcode
03 NR 05 Polyurethan 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.099	1/4" AG
130.248	1/4" IG
130.249	1/4" AG

5mm	5.2g

210.025.103._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG

12mm	5.8g

MORALI VACTEC SYSTEMS

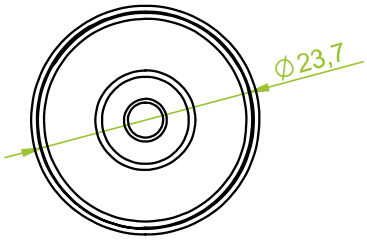
Morali Produktionstechnik GmbH
Handling technology

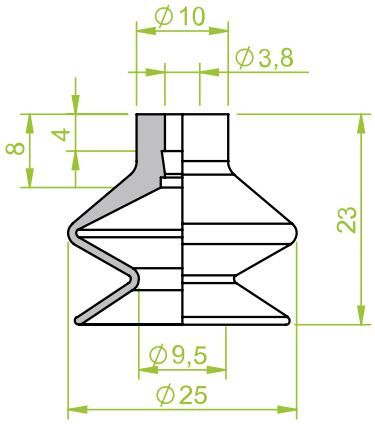
Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.025.137._



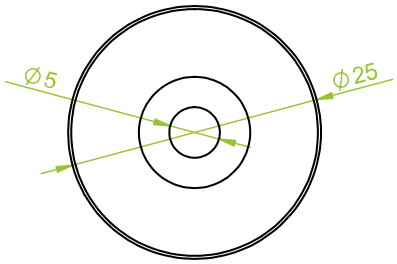


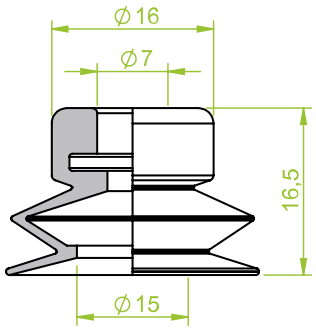
Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG

9mm	2.4g

210.025.144._



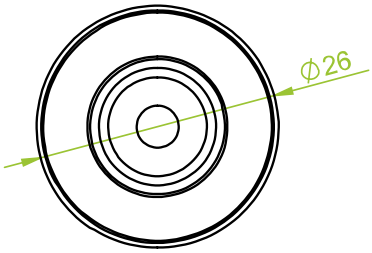


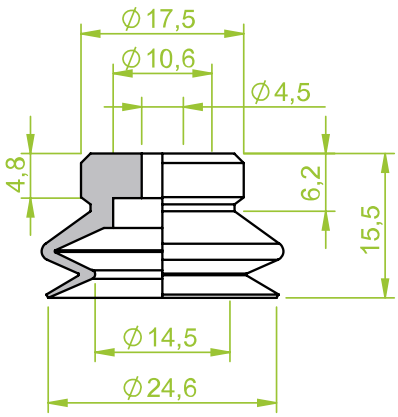
Materialcode
03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

5.5mm	2.5g

210.025.151._



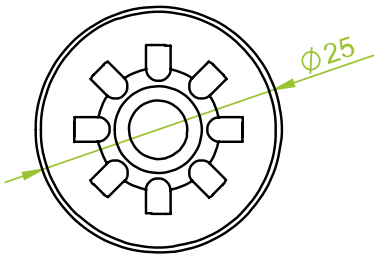


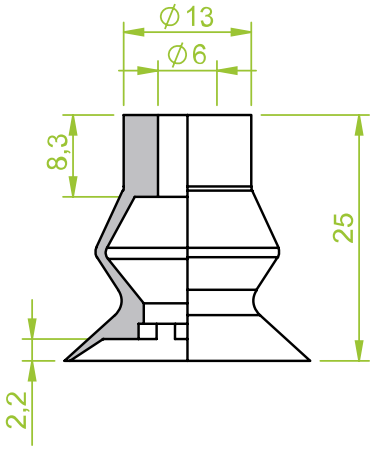
Materialcode
09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.094	M5 AG

4.5mm	2.7g

210.025.154._





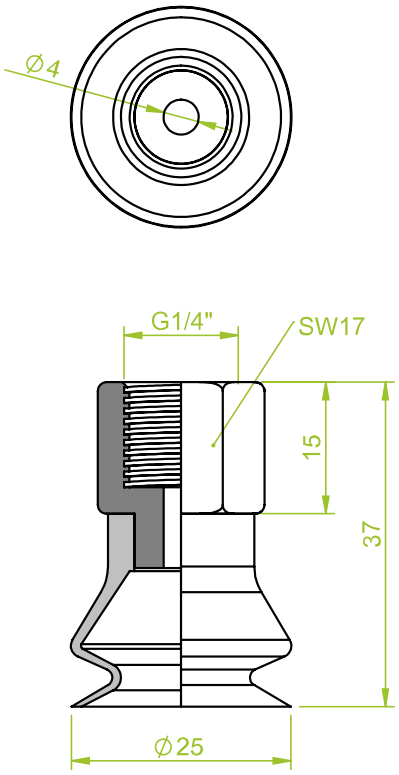
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.238	1/8" AG
130.560	M5 AG
130.566	M5 AG
130.630	1/8" AG

mm	0g

Balgensauger I *Bellow cups*

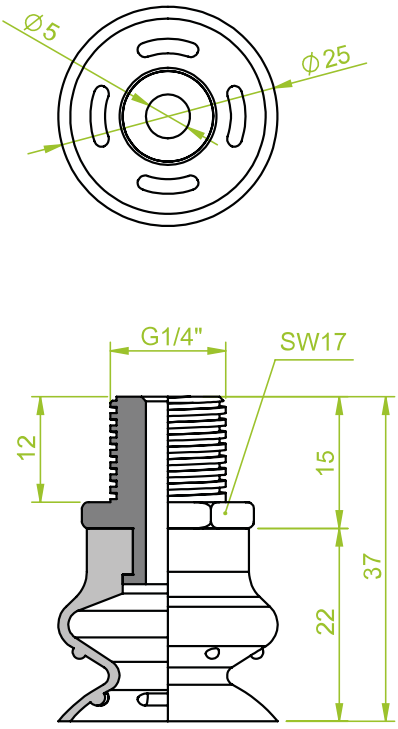
211.025.010._



Materialcode
03 NR
05 Polyurethan
02 Silikon
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
5mm	5.2g

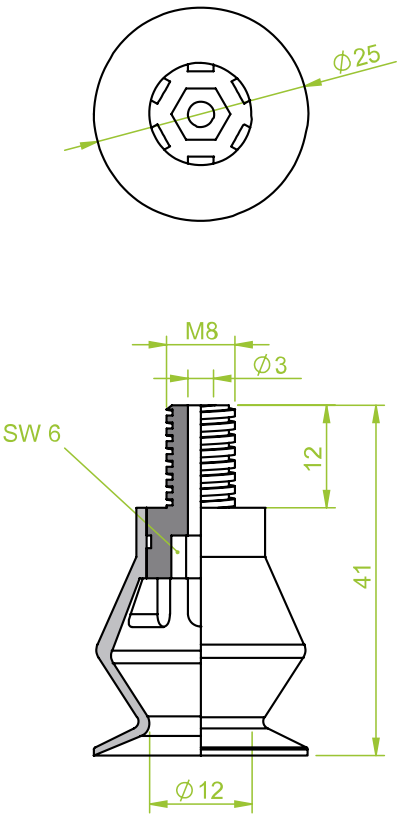
212.025.002._



Materialcode
03 NR
05 Polyurethan
02 Silikon
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
5mm	5.2g

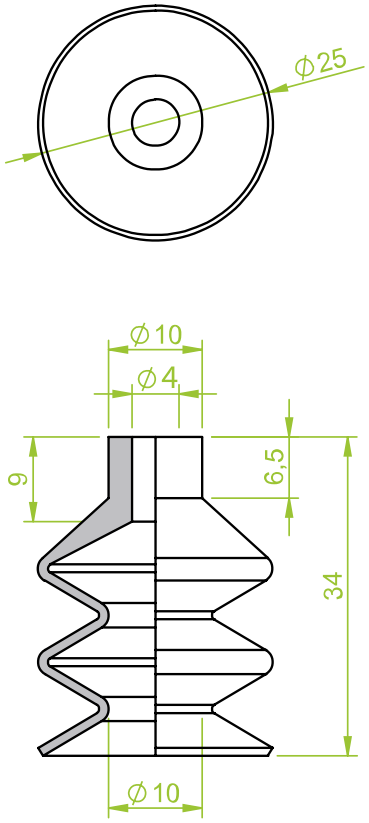
214.025.005._



Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
11mm	13g

220.025.031._

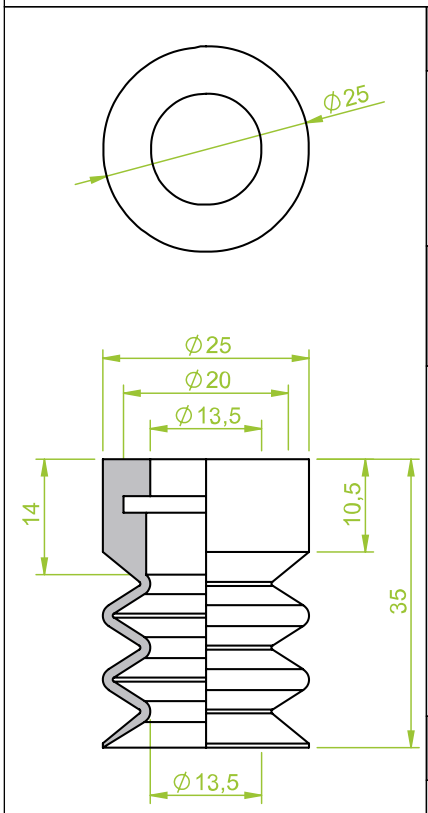


Materialcode
09 HNBR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
19mm	3.5g

MORALI VACTEC SYSTEMS
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

220.025.069._

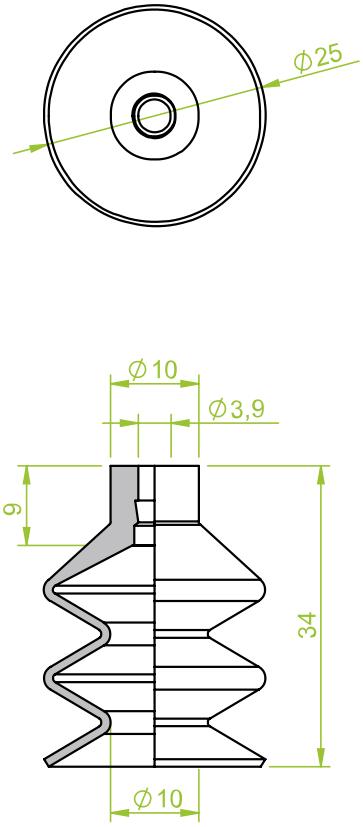


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

16mm	6.2g

220.025.113._

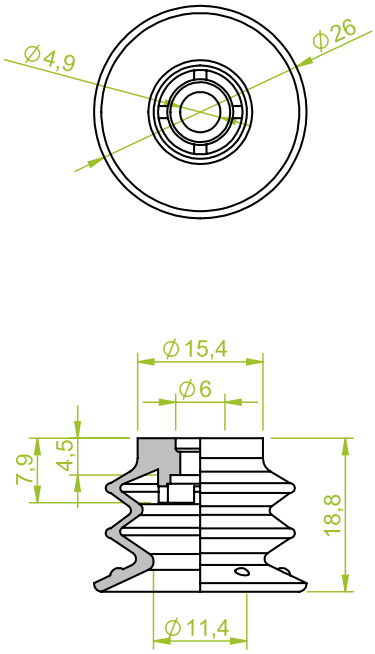


Materialcode
09 HNBR 03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG
130.275	1/4" IG

19mm	4g

220.025.800._

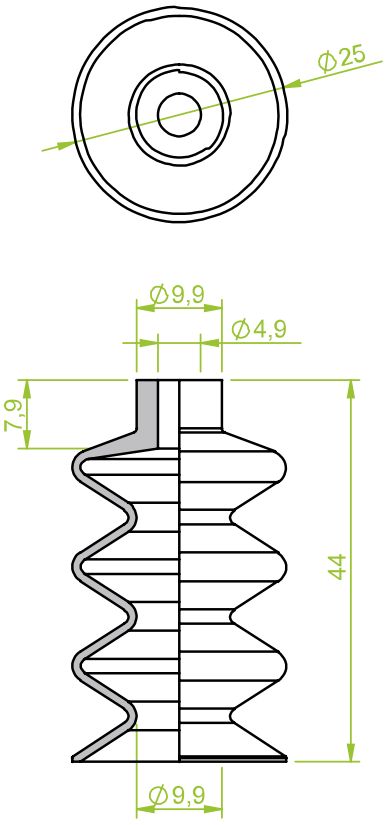


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.250	1/8" AG
130.291	1/8" AG

6.5mm	1.6g

230.025.001._



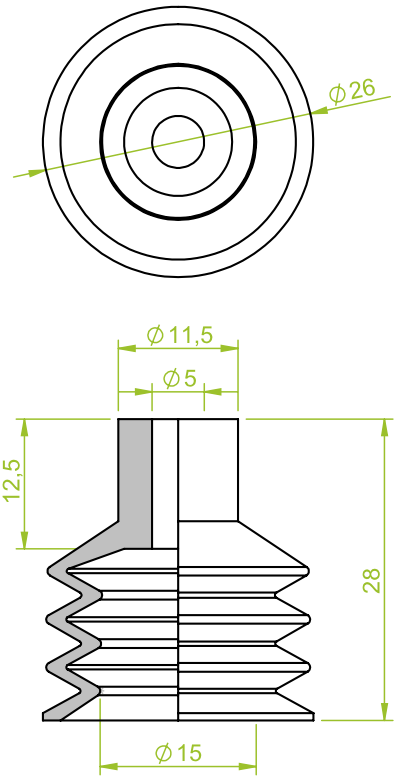
Materialcode
09 HNBR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.013	M5 AG
130.103	M6 AG
130.109	1/8" IG
130.194	1/4" AG

24mm	5.6g

Balgensauger I *Bellow cups*

230.025.004._

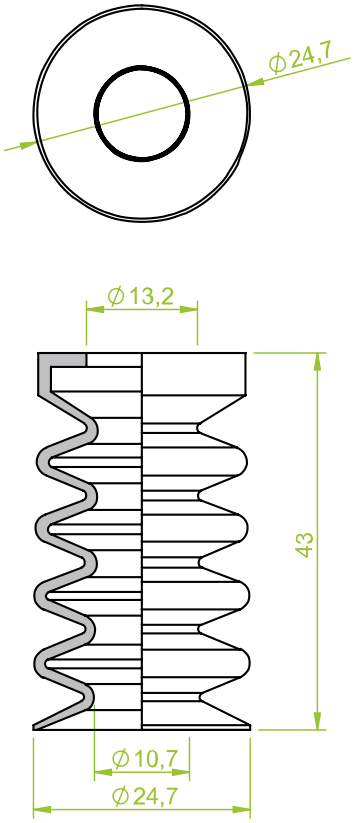


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.194	1/4" AG
130.238	1/8" AG

9mm	3.6g

240.025.016._

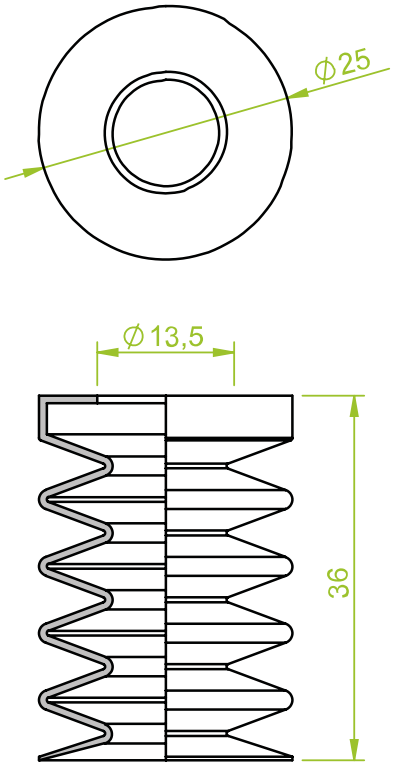


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182	1/4" IG

29mm	6.5g

240.025.030._

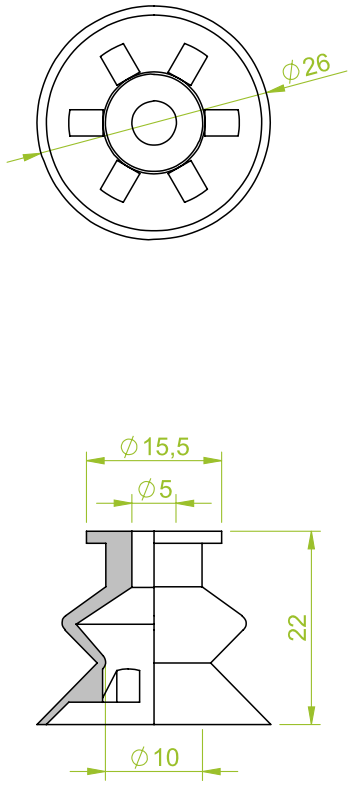


Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

29mm	4.5g

210.026.099._

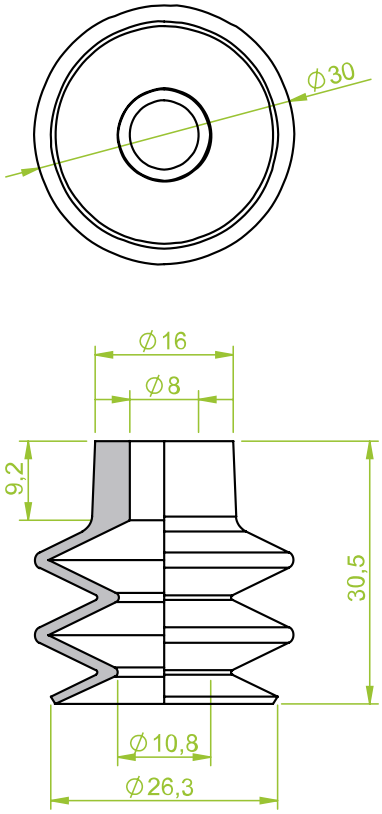


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.005	M5 IG
130.013	M5 AG
130.015	1/8" IG
130.103	M6 AG
130.194	1/4" AG

8mm	3g

220.026.110._

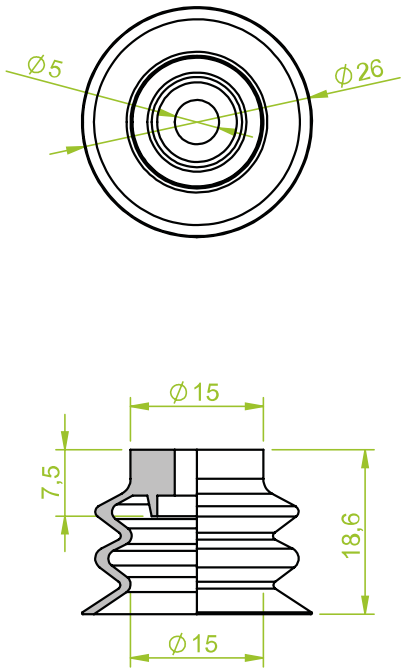


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.190	1/4" AG
130.192	1/4" IG
130.248	1/4" IG

10mm	7.1g

220.026.137._

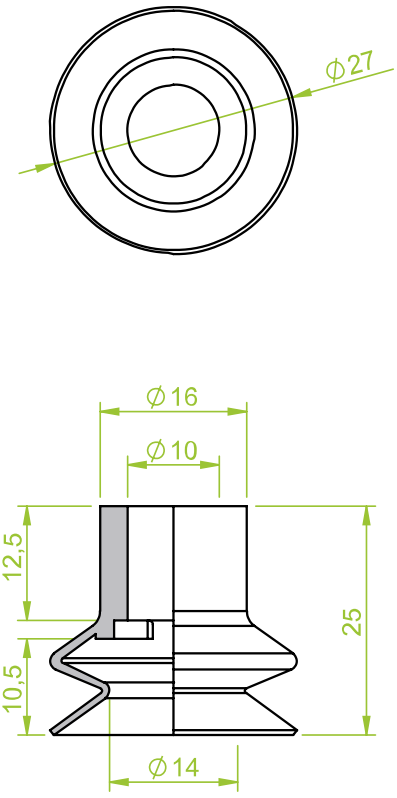


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

10mm	6g

210.027.167._

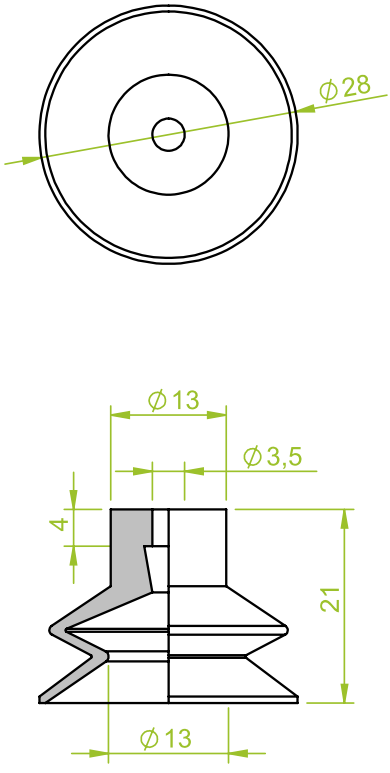


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG

6mm	4.2g

210.028.098._



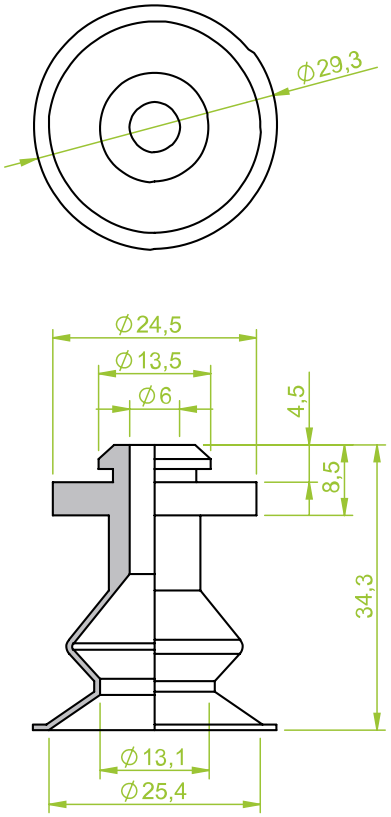
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.033	1/8" AG
130.104	M6 AG
130.134	M5 AG

9mm	3g

Balgensauger I *Bellow cups*

210.028.164._

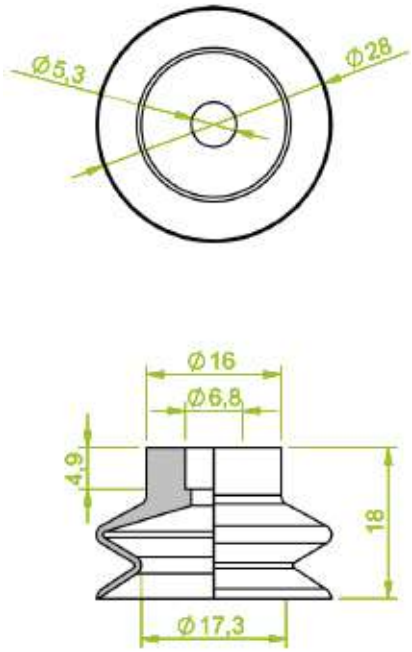


Materialcode
09 HNBR

Halter *Fitting*	Gewinde *Thread*

10mm	5g

210.028.211._

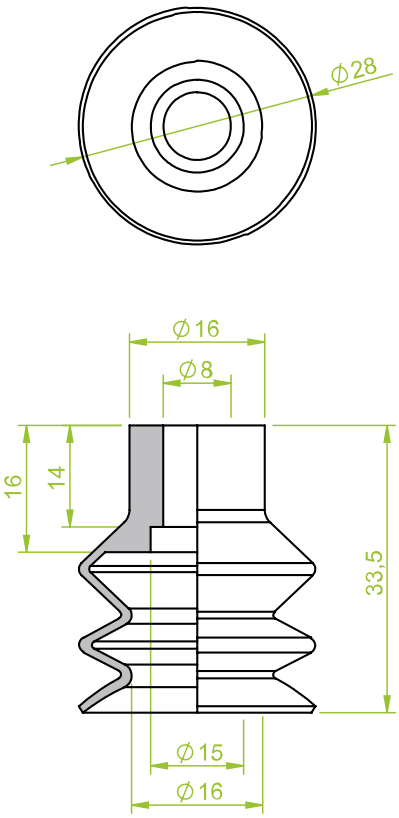


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	3g

220.028.109._

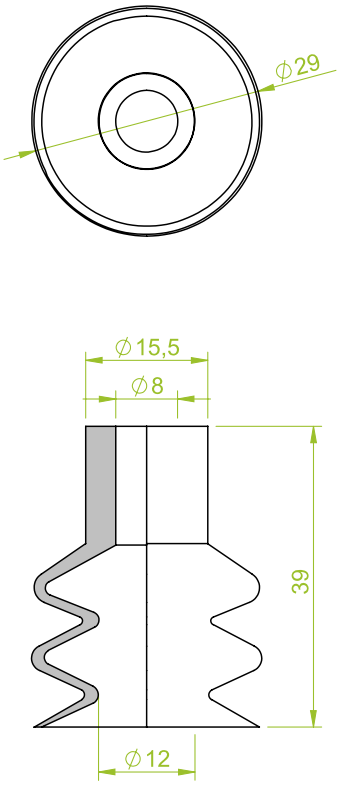


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG

14mm	5.1g

220.029.056._

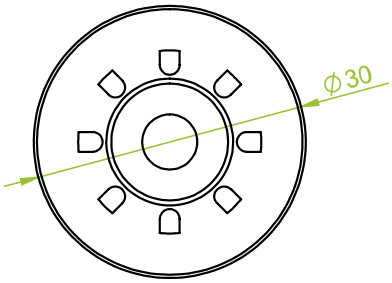


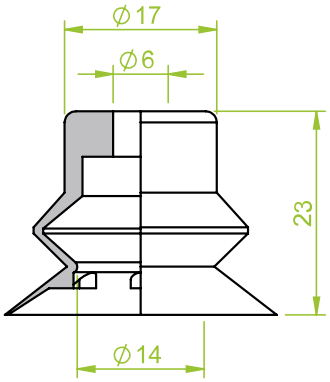
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.114	1/8" IG
130.132	1/8" AG
130.178	1/4" IG

12mm	7g

210.030.016._



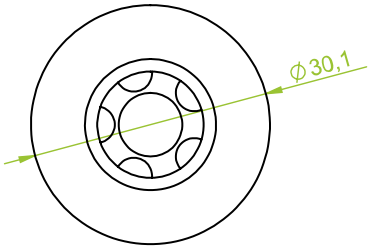


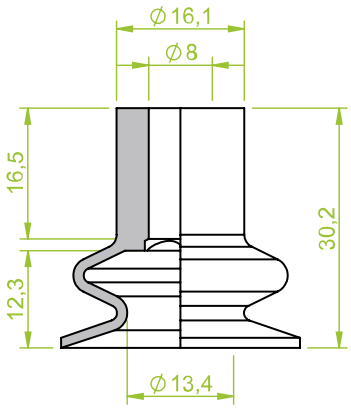
Materialcode
03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.247	M8 AG
130.312	M6 AG
130.504	1/4" AG
130.519	1/8" IG
130.520	1/8" AG

9mm	3.2g

210.030.049._



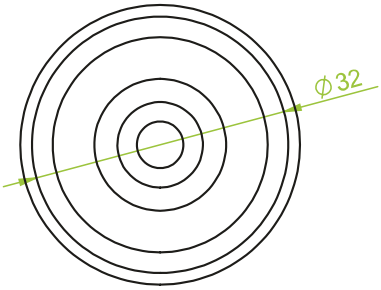


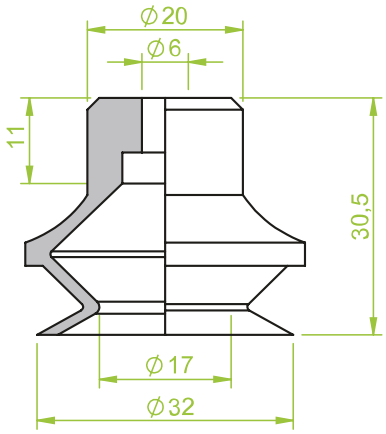
Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.178	1/4" IG
130.208	1/4" AG

11mm	2.9g

210.030.055._



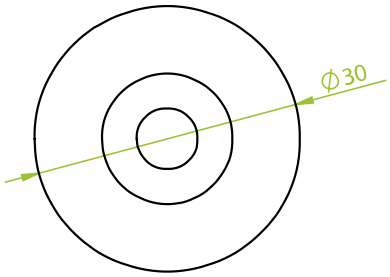


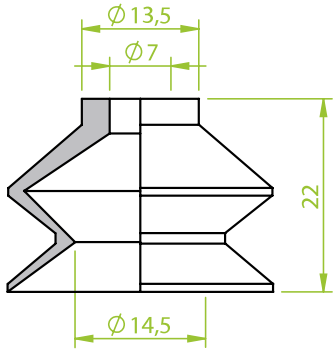
Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG
130.538	1/8" AG

9mm	9g

210.030.061._





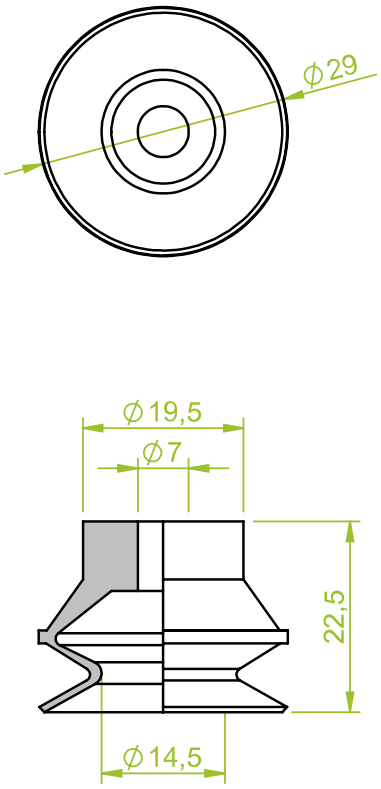
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

10.5mm	4.7g

Balgensauger I *Bellow cups*

210.030.109._

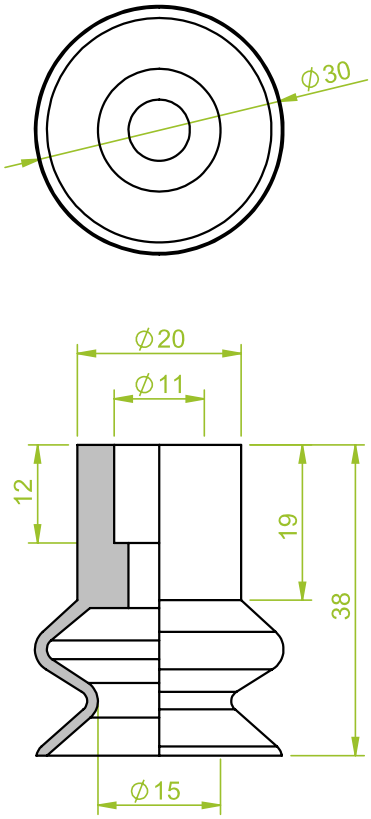


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG

10mm	3.4g

210.030.136._

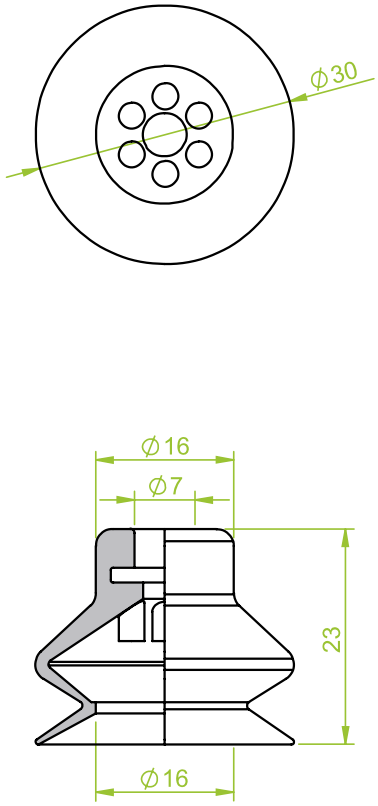


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.177	M10 AG
130.609	1/4" AG

16mm	8.5g

210.030.146._

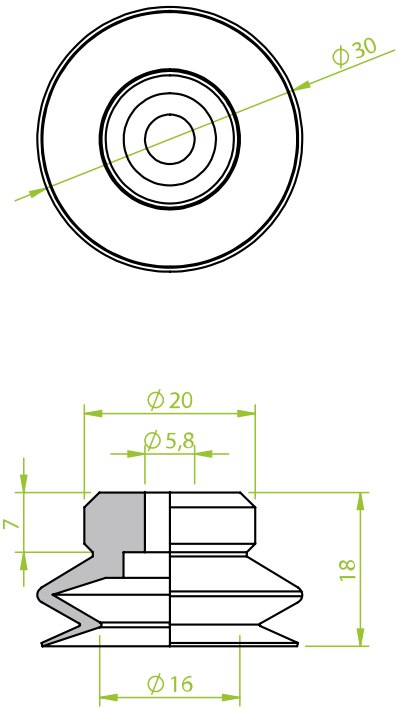


Materialcode
03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.604	M5 AG
130.605	1/8" AG
130.606	1/4" AG

10mm	5.2g

210.030.152._



Materialcode
04 CR 06 EPDM 09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.094	M5 AG
130.312	M6 AG

5mm	4.7g

MORALI VACTEC SYSTEMS

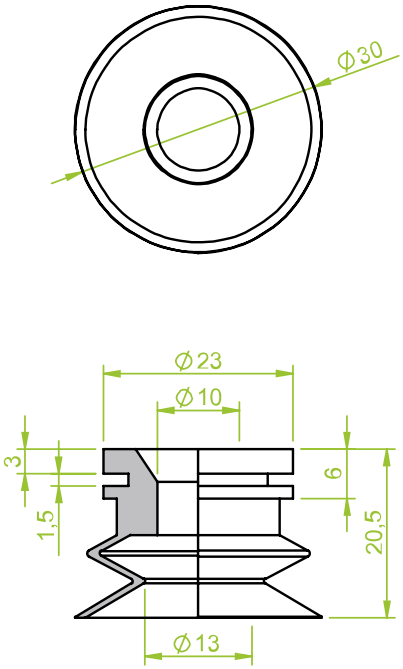
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.030.193._

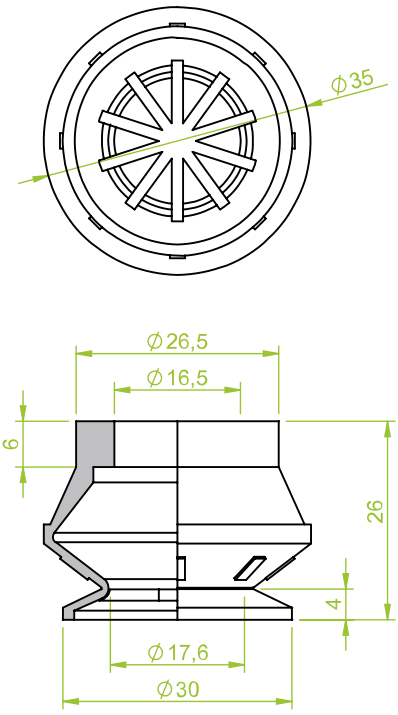


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.518	1/4" AG

7.5mm	5g

210.030.198._

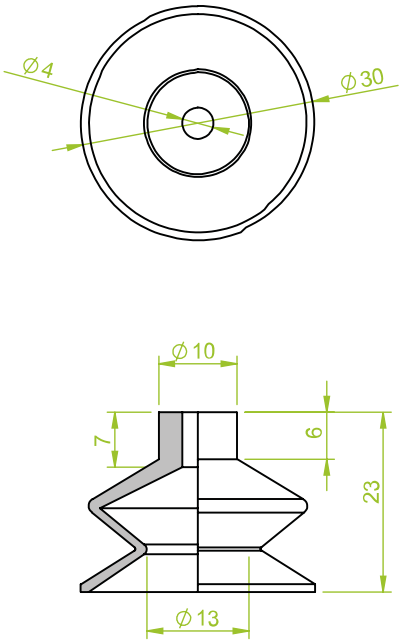


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.598	1/4" AG

9.5mm	5.6g

210.030.213._

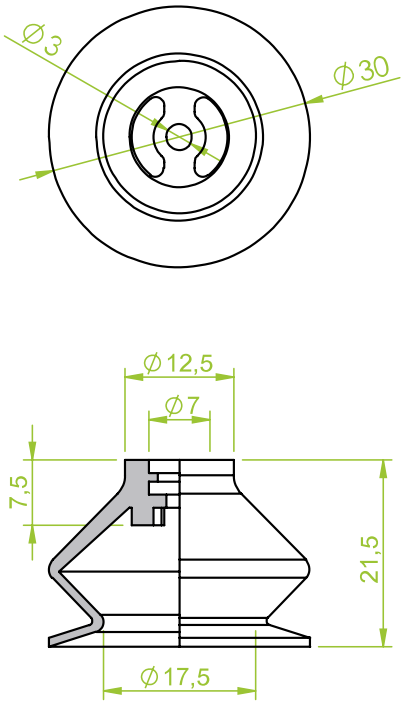


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

13mm	2.7g

210.030.215._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.520	1/8" AG

12.5mm	3.1g

Morali Produktionstechnik GmbH
Handling technology

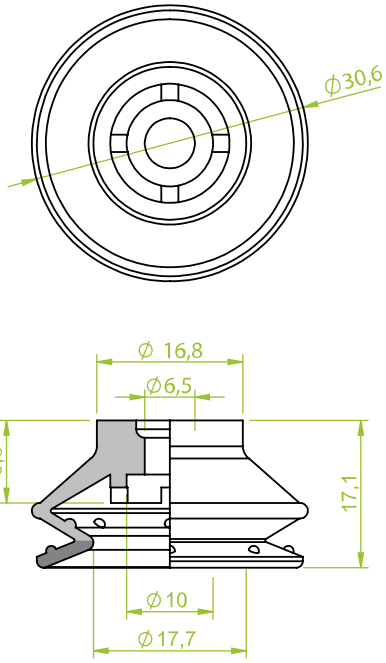
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

210.030.802._

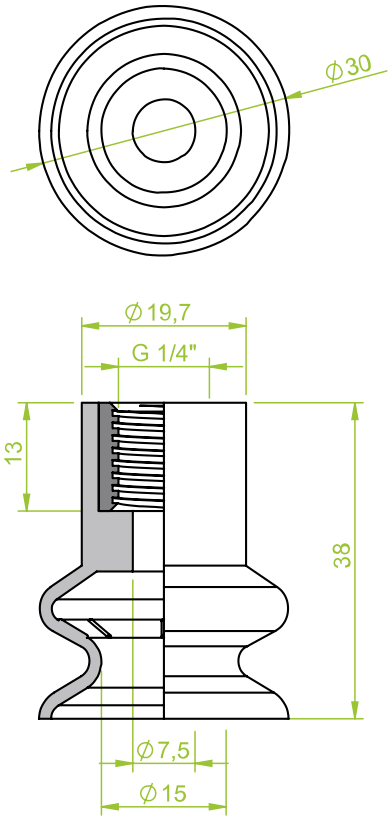


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.030	1/8" AG
130.251	1/8" IG
130.293	1/4" AG
130.295	3/8" AG
130.501	1/8" IG
130.549	1/8" AG
130.902	1/4" AG
130.903	1/4" IG

7.5mm	4.5g

213.030.010._

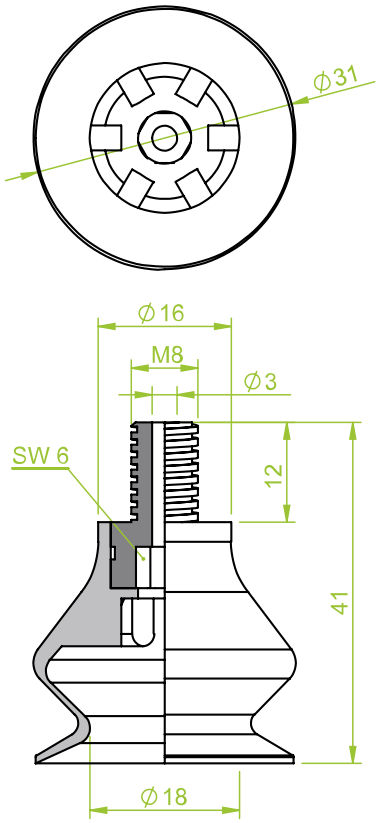


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

16mm	8.5g

214.030.004._

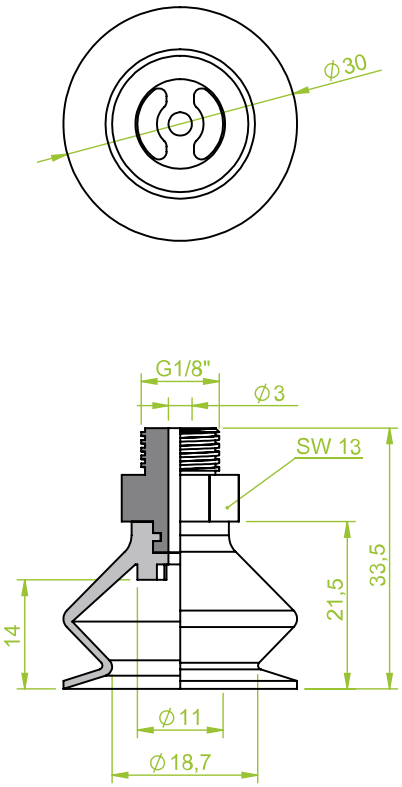


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	14g

214.030.013._

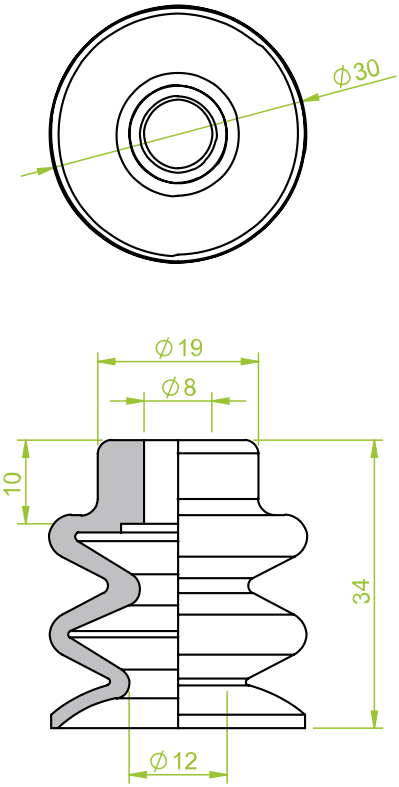


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

13mm	7g

220.030.006._

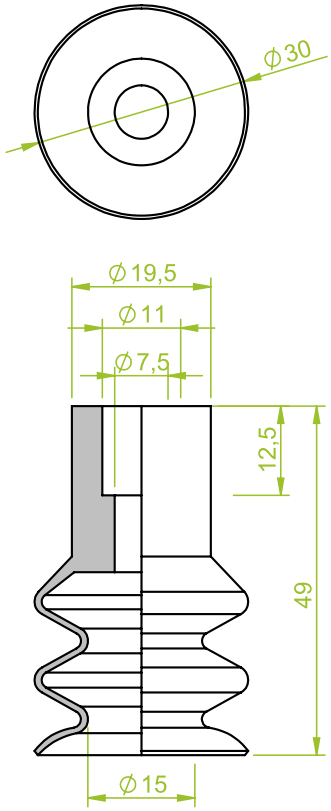


Materialcode
06 EPDM
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.099	1/4" AG
130.114	1/8" IG
130.132	1/8" AG
130.208	1/4" AG
130.248	1/4" IG
130.249	1/4" AG

13mm	9.2g

220.030.071._

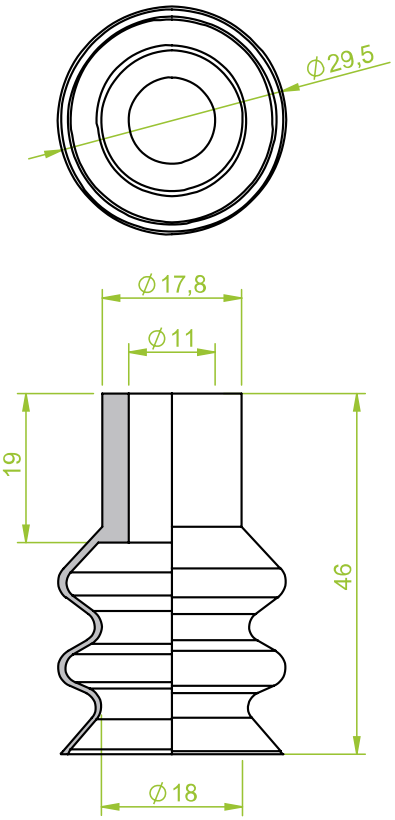


Materialcode
02 Silikon
20 TPU

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.177	M10 AG
130.451	1/4" AG
130.609	1/4" AG

18mm	10g

220.030.130._

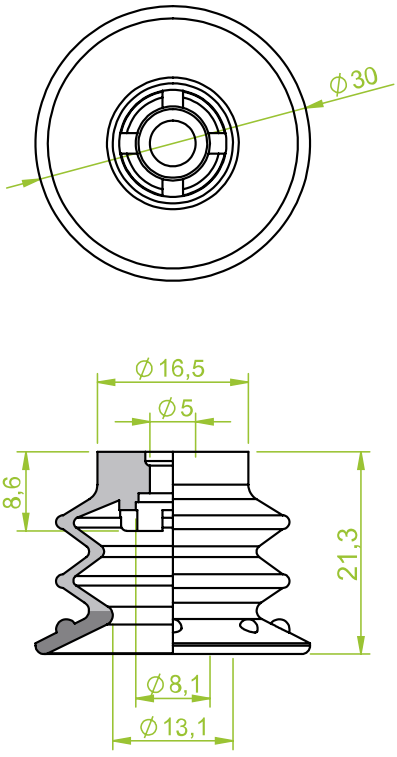


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.609	1/4" AG

20mm	6.1g

220.030.801._



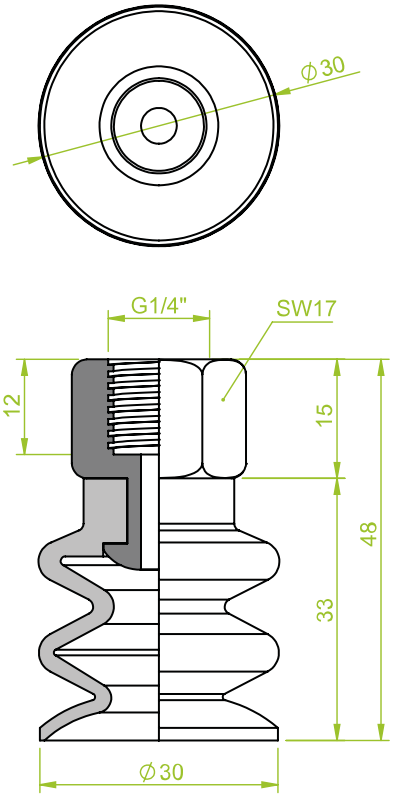
Materialcode
05 Polyurethan
20 TPU

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.250	1/8" AG
130.291	1/8" AG
130.900	1/8" AG
130.901	1/8" IG

11mm	4.4g

Balgensauger I *Bellow cups*

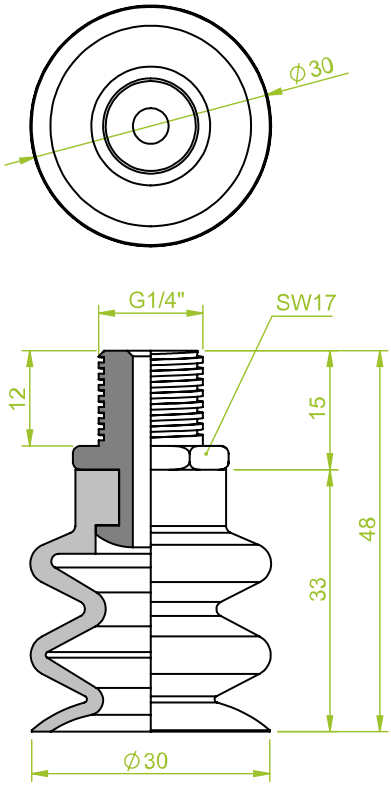
221.030.006._



Materialcode
06 EPDM
07 FKM
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
13mm	9.2g

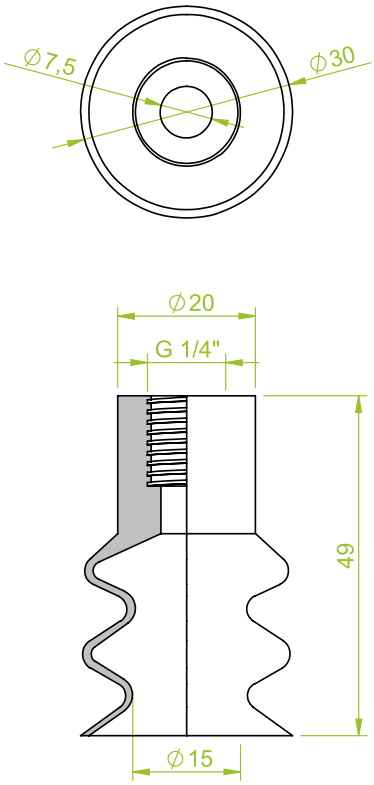
222.030.004._



Materialcode
06 EPDM
07 FKM
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
13mm	9.2g

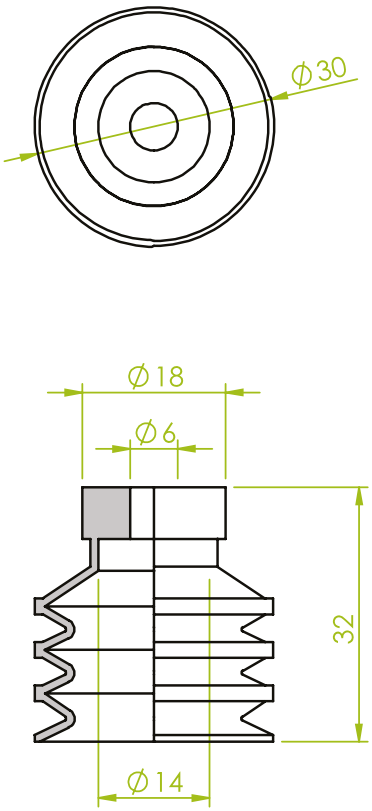
223.030.008._



Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
18mm	16g

230.030.023._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.238	1/8" AG
20mm	5.4g

MORALI VACTEC SYSTEMS

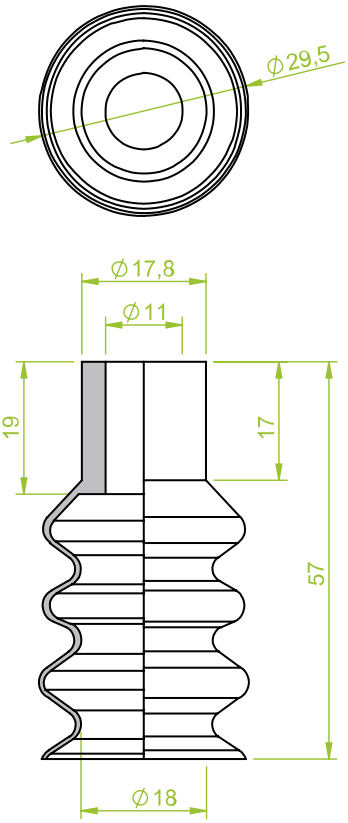
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

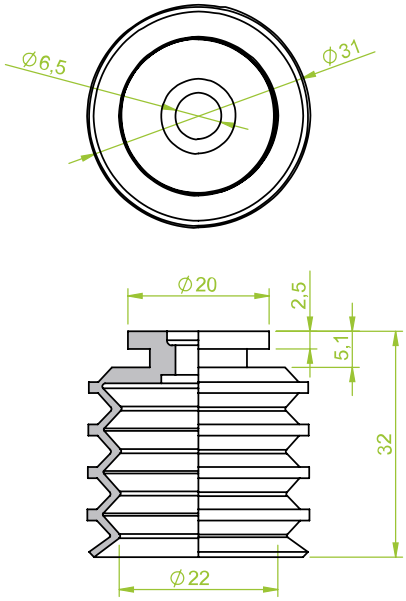
230.030.027._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.609	1/4" AG
28mm	7g

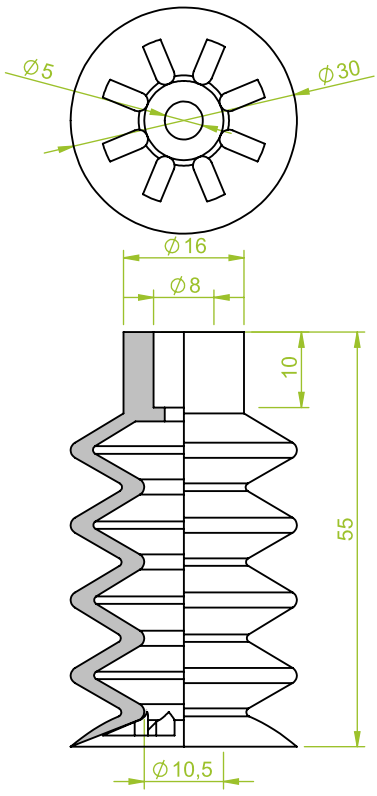
240.030.003._



Materialcode
04 CR 03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012 130.251 130.293	1/8" AG 1/8" IG 1/4" AG
21mm	6g

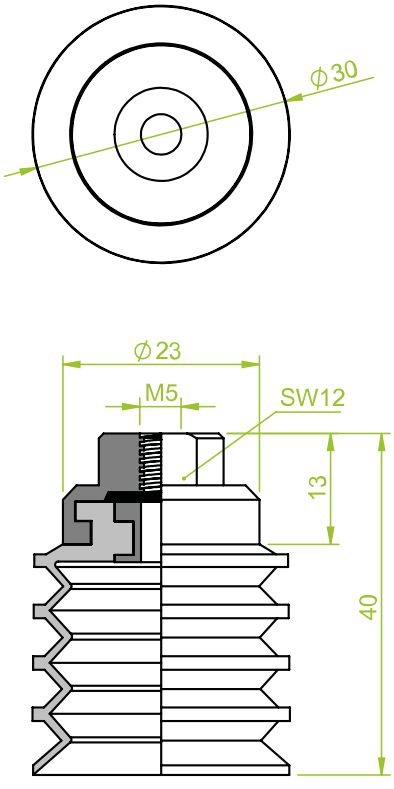
240.030.015._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.043 130.114 130.132 130.178 130.248	1/4" AG 1/8" IG 1/8" AG 1/4" IG 1/4" IG
27mm	12g

241.030.002._

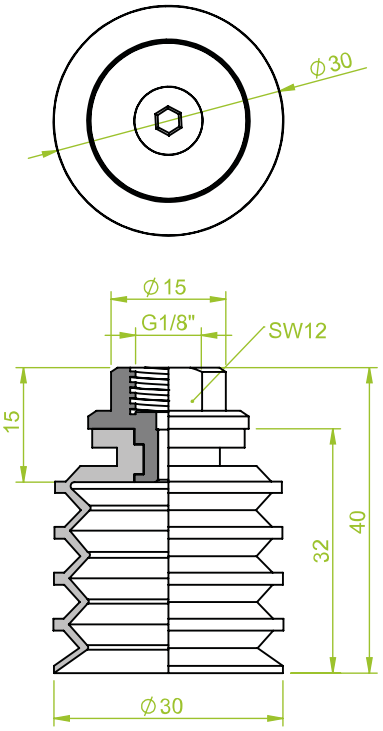


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
21mm	18g

Balgensauger I *Bellow cups*

241.030.006._

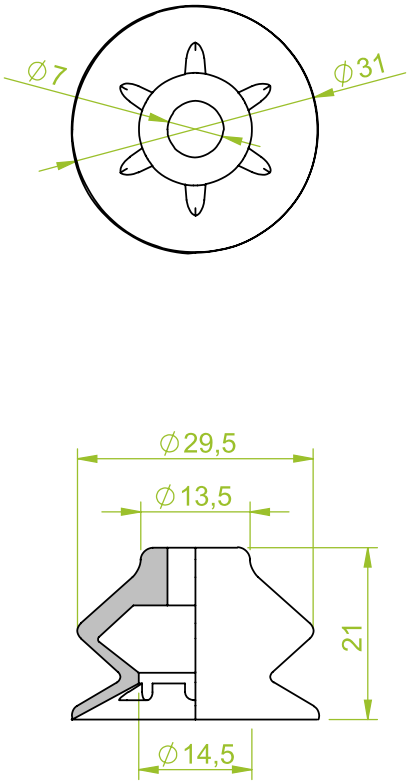


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

21mm	6g

210.031.101._

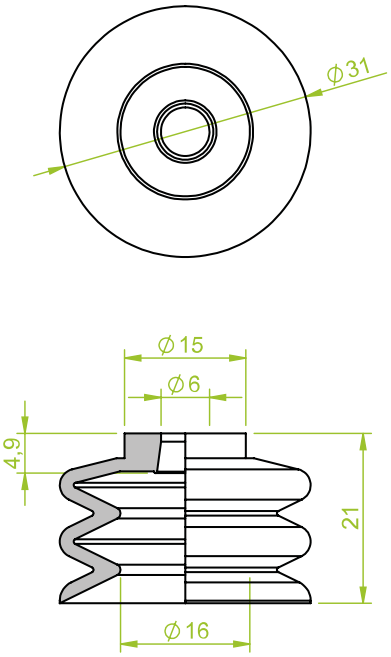


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.034	1/4" AG
130.038	1/4" IG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG
130.628	M8 AG

6mm	7g

220.031.028._

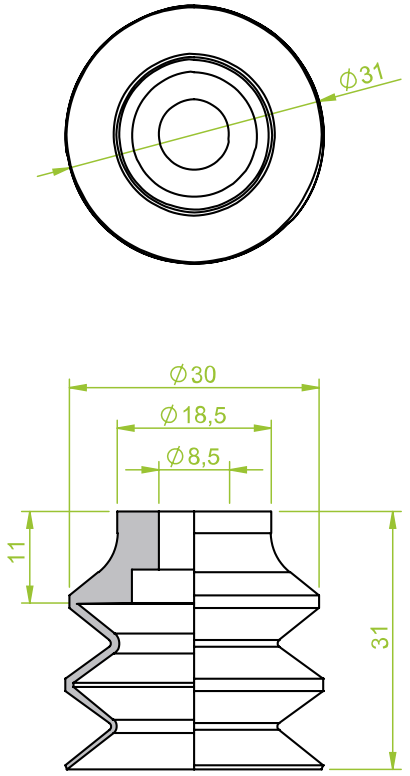


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.006	1/8" AG

7mm	6g

220.031.115._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.030	1/8" AG
130.034	1/4" AG
130.038	1/4" IG
130.628	M8 AG

14mm	5.4g

MORALI VACTEC SYSTEMS

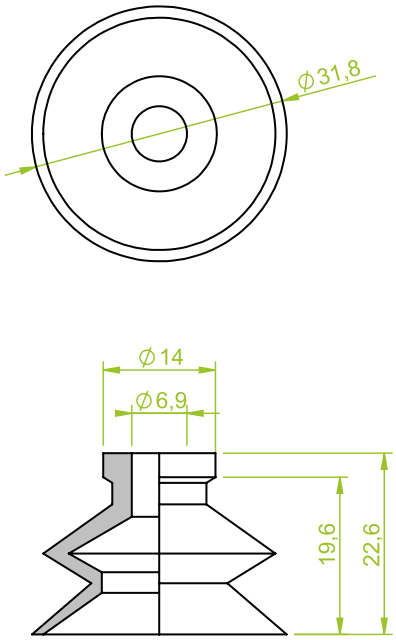
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

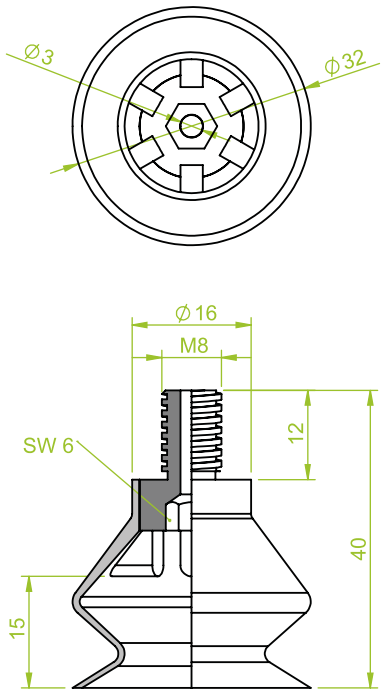
220.031.134._



Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
13mm	9.4g

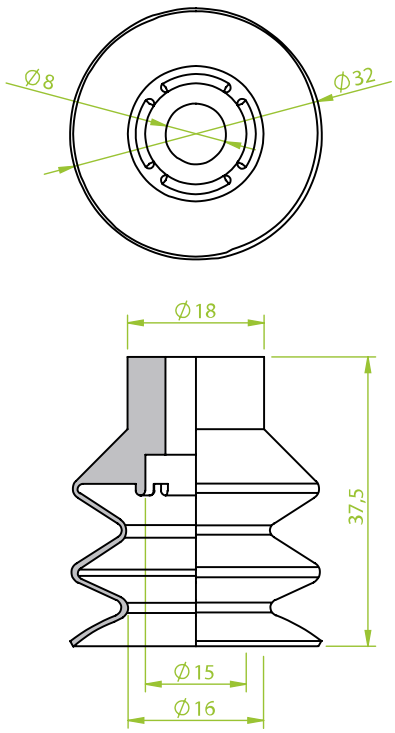
214.032.020._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	14g

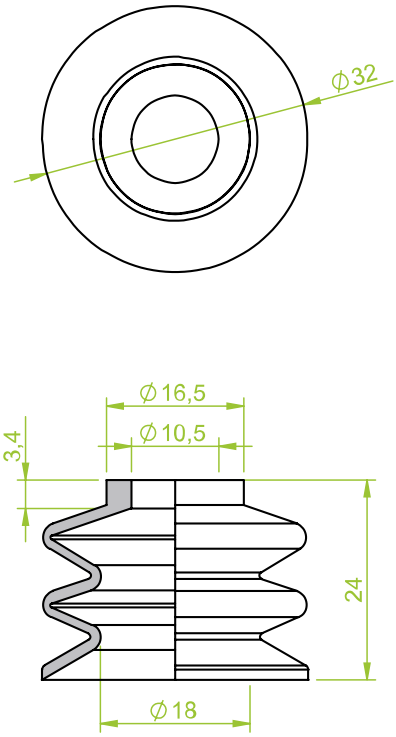
220.032.003._



Materialcode
04 CR 06 EPDM 07 FKM 09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG
130.315	M6 AG
13mm	8.3g

220.032.057._

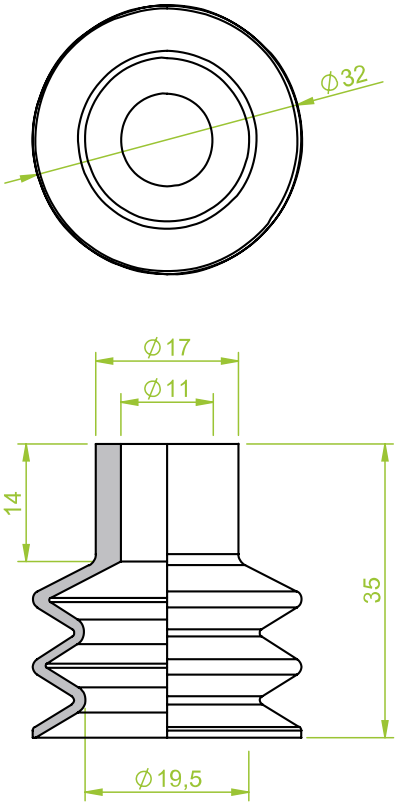


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.256	M8 AG
10mm	6.5g

Balgensauger I *Bellow cups*

220.032.058._

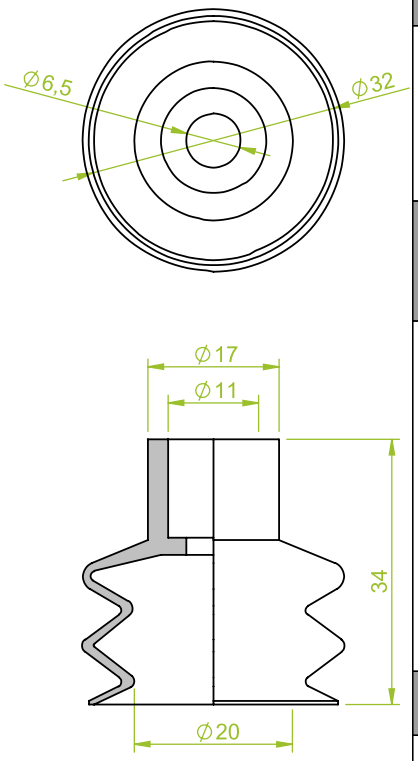


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG
130.609	1/4" AG

14mm	7g

220.032.076._

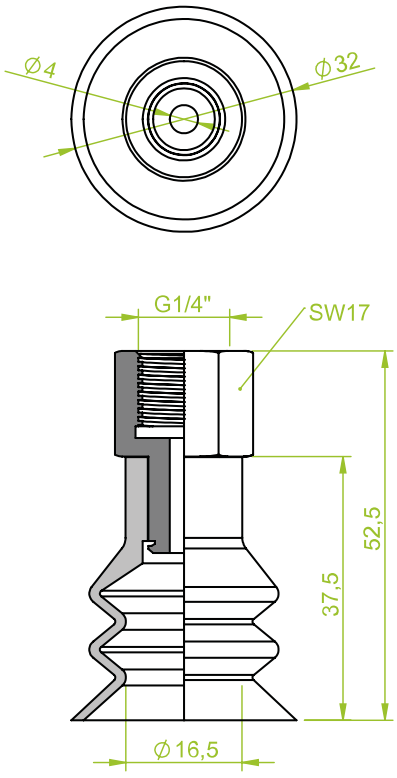


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.451	1/4" AG
130.452	1/4" IG
130.609	1/4" AG

13mm	5g

221.032.009._

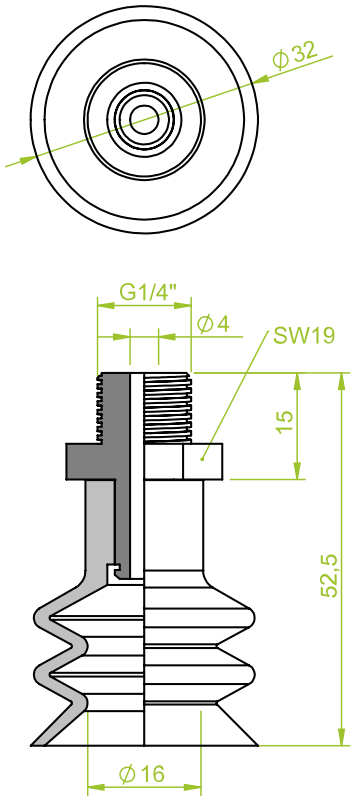


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	16.8g

222.032.007._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	18g

MORALI VACTEC SYSTEMS

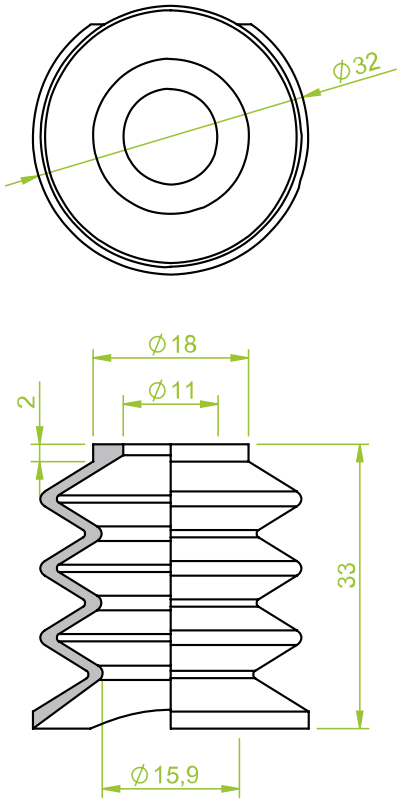
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

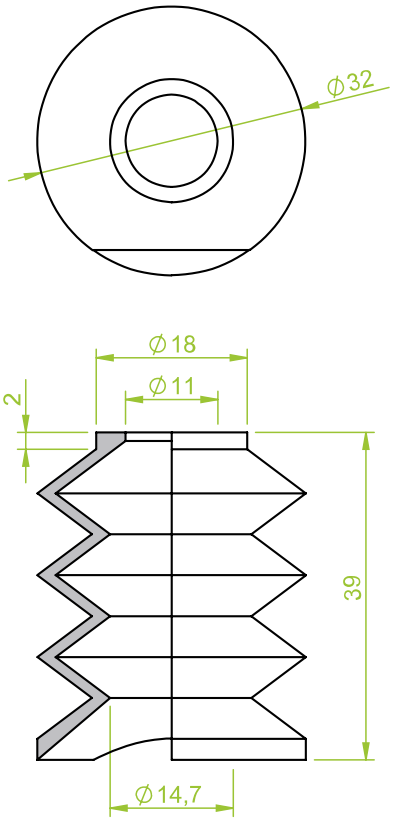
Email: info@morali-gmbh.de
www.morali-gmbh.de

230.032.015._



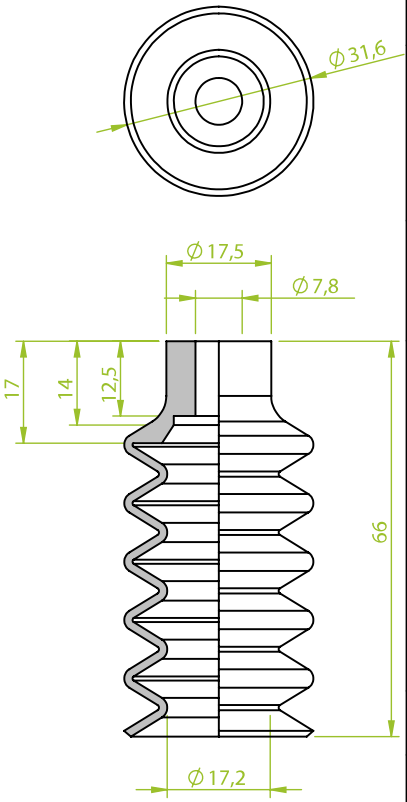
Materialcode	
03 NR	
Halter *Fitting*	**Gewinde** *Thread*
20mm	7.4g

230.032.016._



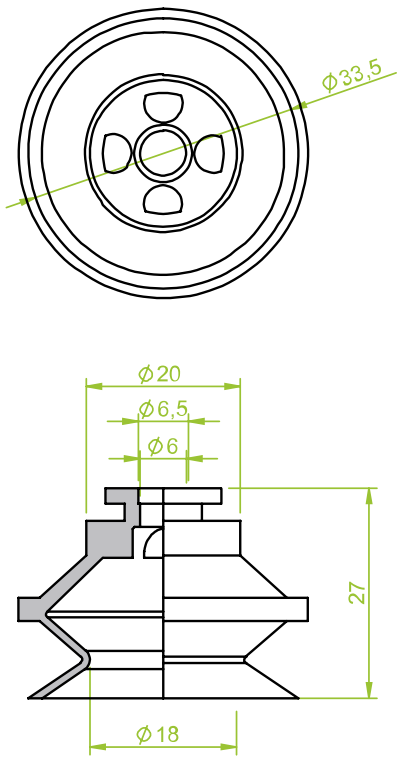
Materialcode	
Halter *Fitting*	**Gewinde** *Thread*
30mm	7.5g

250.032.012._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
36mm	12.9g

210.033.019._

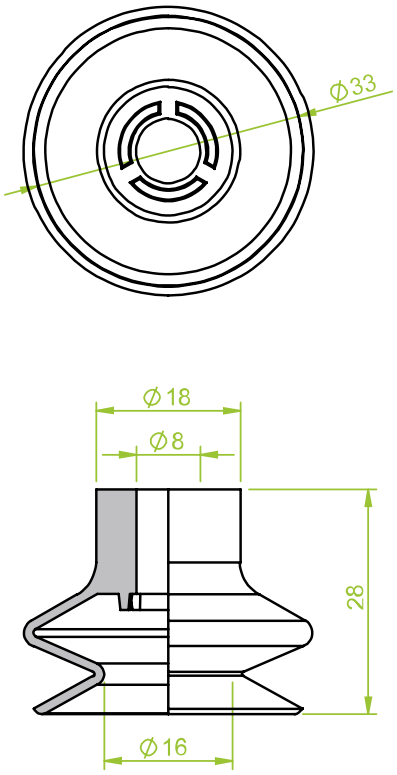


Materialcode	
04 CR 09 HNBR 05 Polyurethan 02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.135 130.250 130.291 130.507	1/8" AG 1/8" AG 1/8" AG 1/8" AG
9mm	6.5g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.033.022._

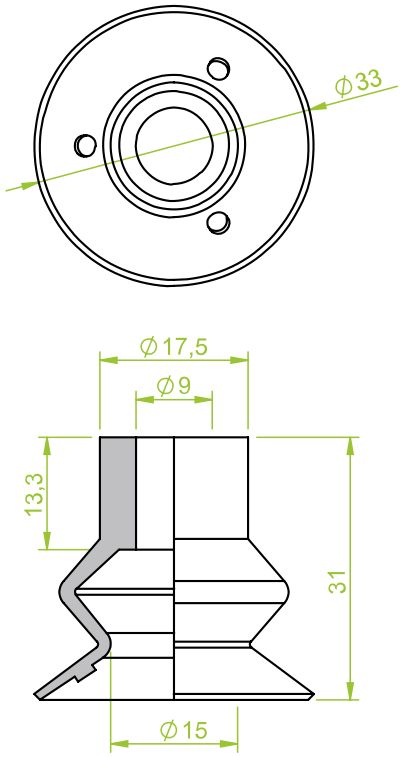


Materialcode
04 CR
06 EPDM
07 FKM
09 HNBR

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG
130.315	M6 AG

12mm	7g

210.033.179._

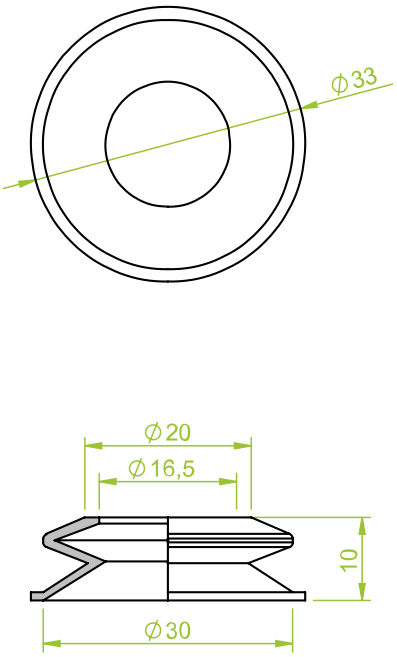


Materialcode

Halter *Fitting*	Gewinde *Thread*

12mm	6.9g

210.033.194._

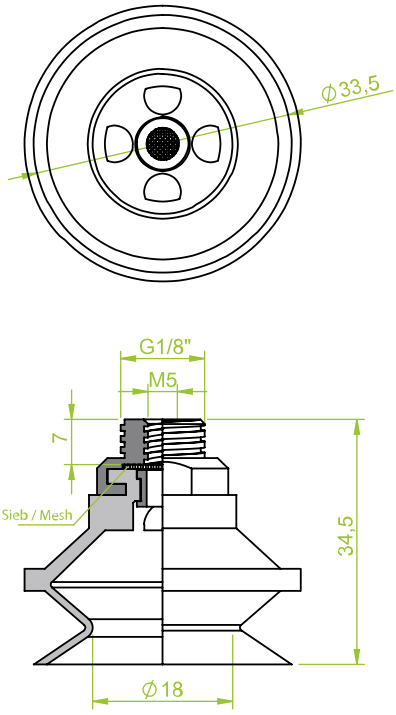


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	1.9g

211.033.003._



Materialcode
09 HNBR
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	14.5g

MORALI VACTEC SYSTEMS

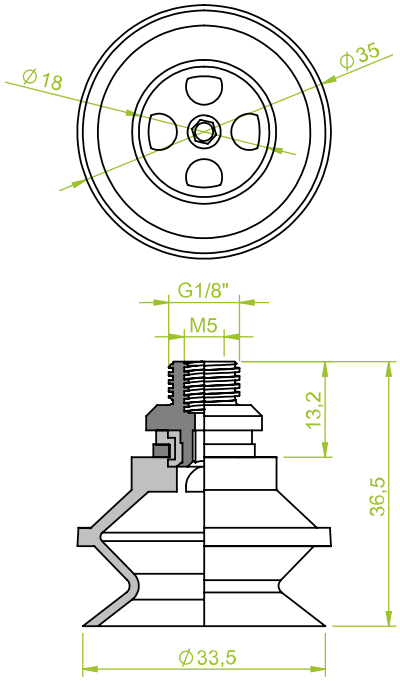
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

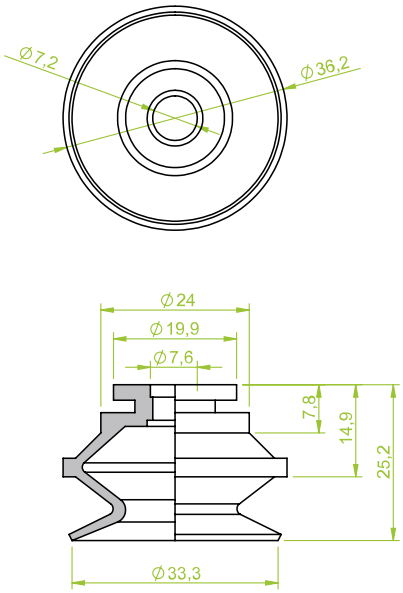
211.033.011._



Materialcode
04 CR
09 HNBR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	6.5g

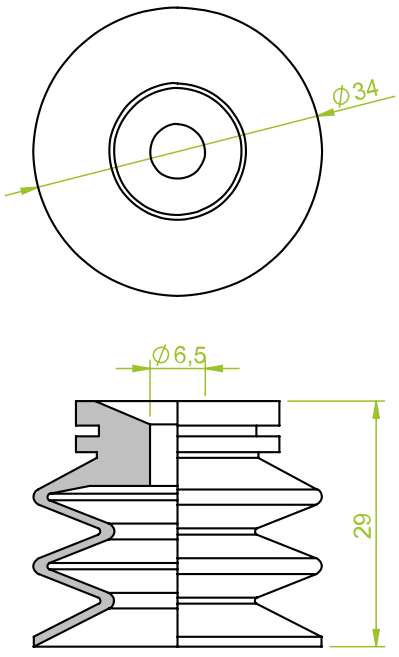
210.034.175._



Materialcode
06 EPDM
07 FKM
09 HNBR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.136	1/8" IG
130.251	1/8" IG
130.293	1/4" AG
130.528	1/4" IG
130.549	1/8" AG
16mm	5.4g

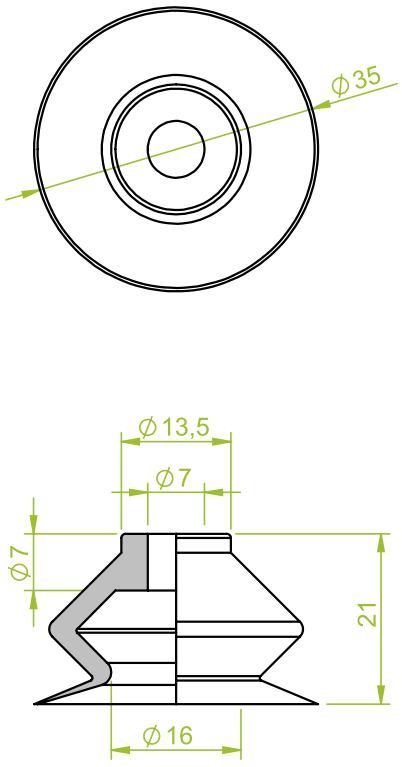
220.034.112._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
mm	0g

210.035.111._



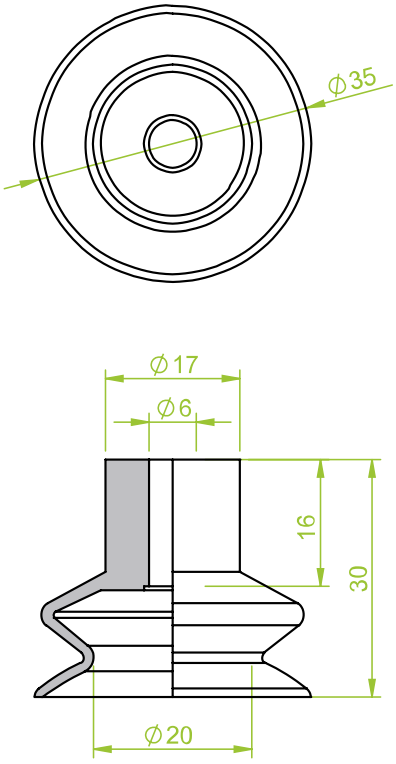
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.312	M6 AG
14mm	5g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.035.112._

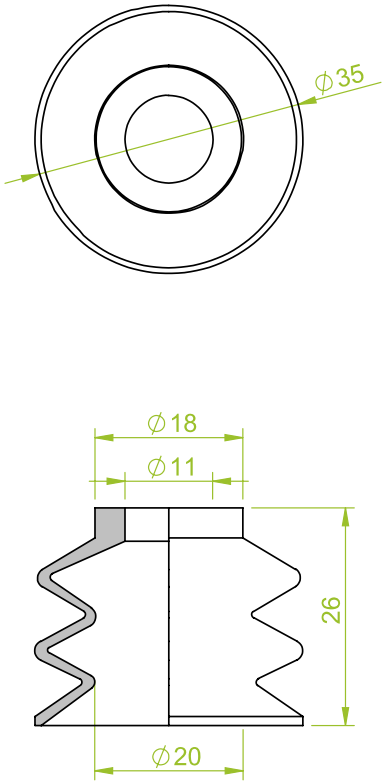


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.043	1/4" AG
130.110	1/8" IG
130.238	1/8" AG

12mm	7g

220.035.077._

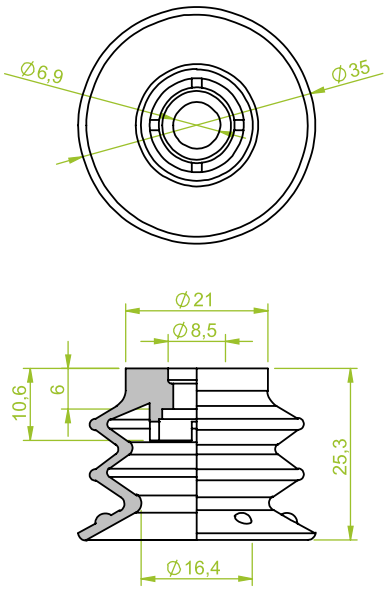


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.177	M10 AG
130.182	1/4" IG
130.183	1/4" AG

13mm	6.4g

220.035.801._

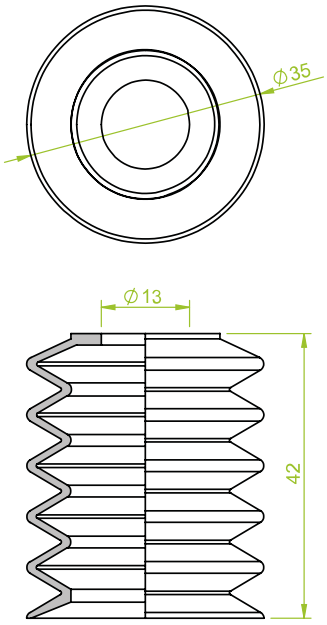


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.251	1/8" IG
130.293	1/4" AG
130.549	1/8" AG

11mm	4.4g

250.035.005._

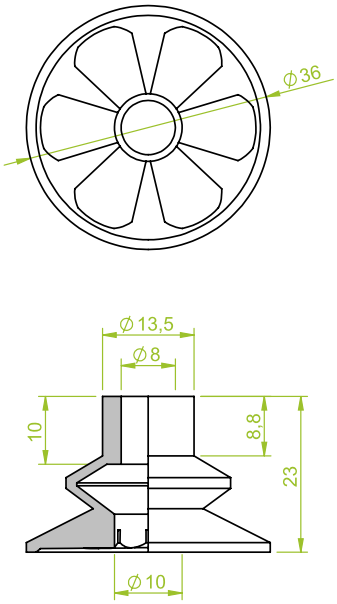


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182	1/4" IG
130.183	1/4" AG

26.5mm	10g

210.036.107._

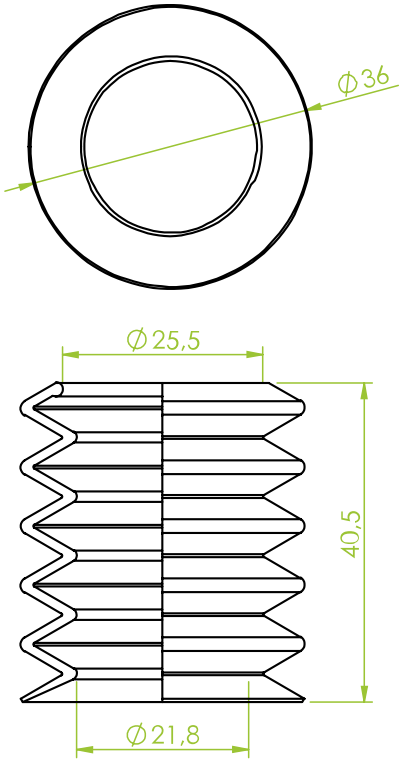


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.030	1/8" AG
130.092	1/8" IG
130.093	1/8" AG
130.114	1/8" IG
130.248	1/4" IG
130.249	1/4" AG

7mm	4g

250.036.014._

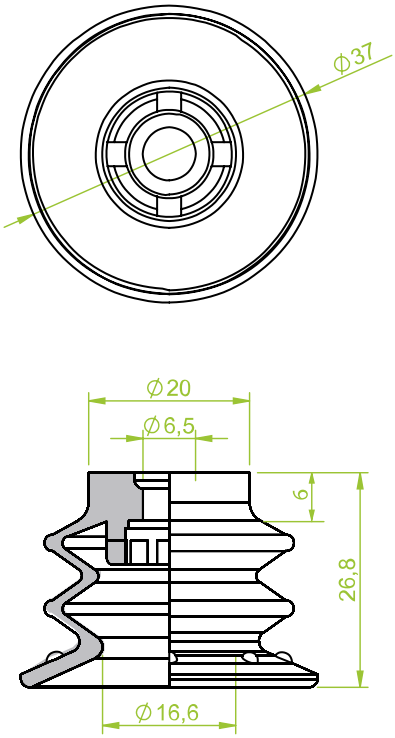


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	16g

220.037.116._

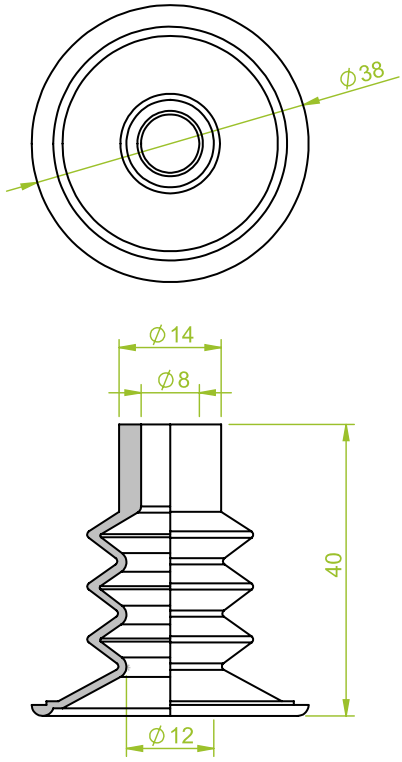


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.540	1/8" AG

12mm	6.9g

230.038.010._



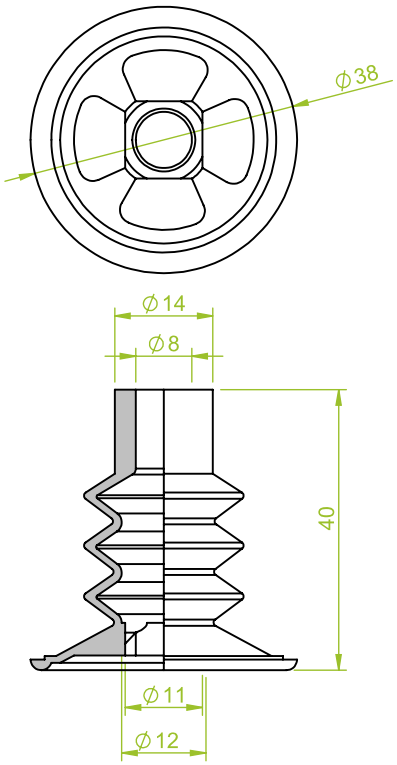
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.248	1/4" IG
130.249	1/4" AG
130.315	M6 AG

16mm	4g

Balgensauger I *Bellow cups*

230.038.011._

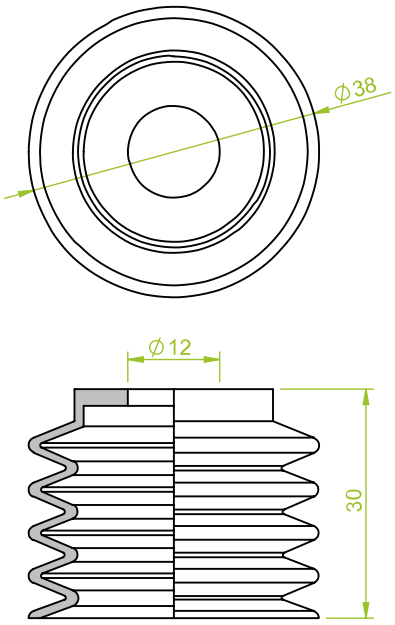


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.112	1/8" AG
130.113	1/4" AG
130.114	1/8" IG
130.248	1/4" IG
130.249	1/4" AG

16mm	5g

240.038.018._

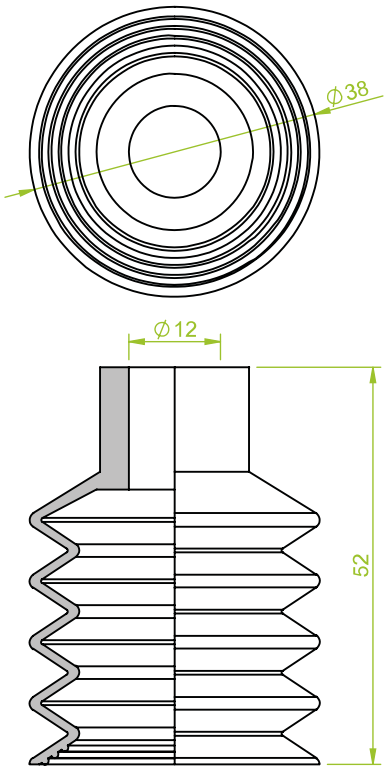


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182	1/4" IG
130.183	1/4" AG

18mm	7.5g

240.038.019._

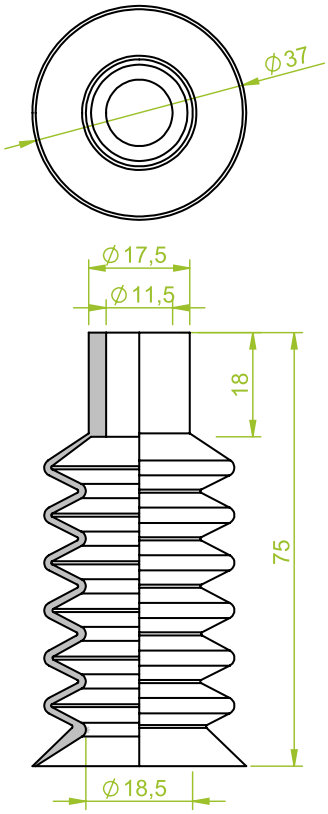


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

23mm	14g

250.038.008._



Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG

35mm	16g

MORALI VACTEC SYSTEMS

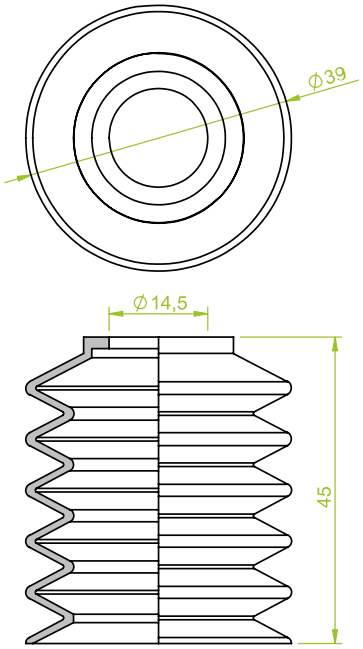
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

250.039.009._

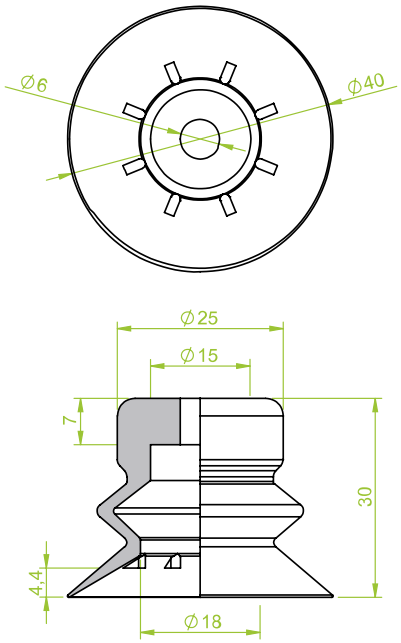


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182	1/4" IG
130.183	1/4" AG

20mm	10g

210.040.038._

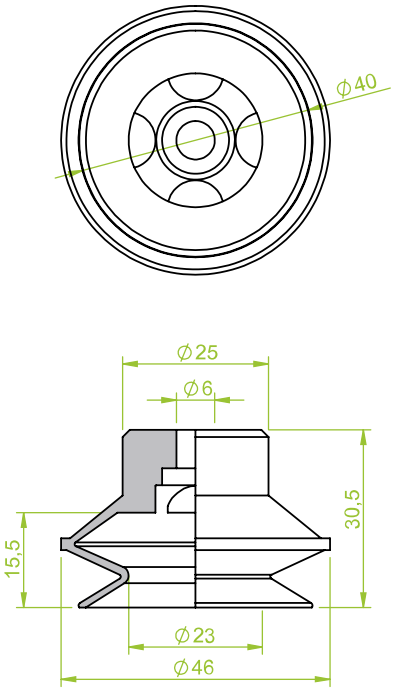


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.312	M6 AG
130.628	M8 AG

10mm	9.6g

210.040.056._

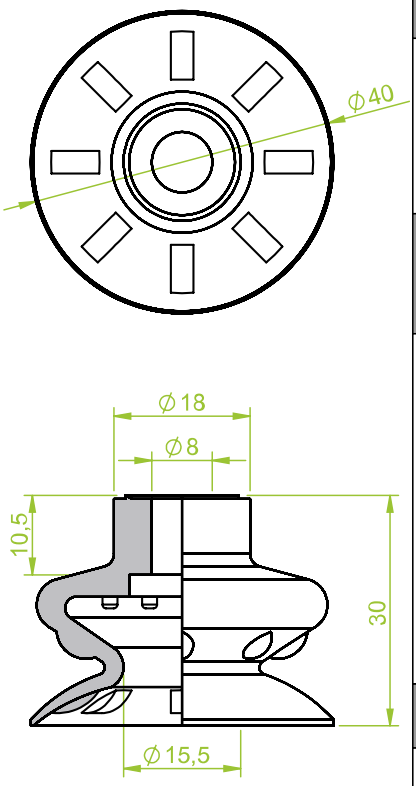


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.019	1/8" IG
130.030	1/8" AG
130.274	1/4" AG
130.275	1/4" IG
130.312	M6 AG

10mm	12g

210.040.066._



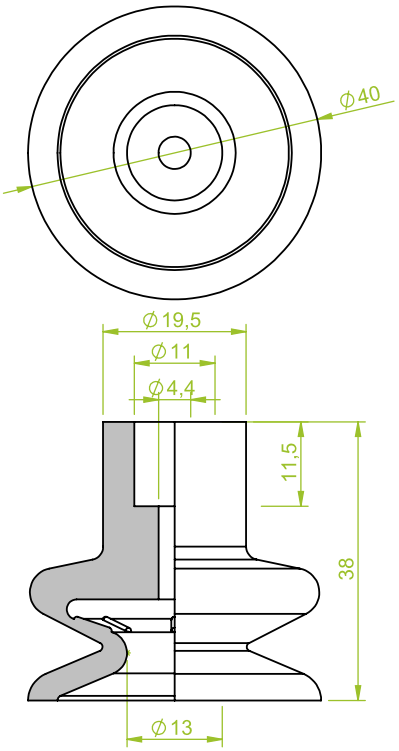
Materialcode
06 EPDM 03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.099	1/4" AG
130.248	1/4" IG
130.249	1/4" AG

13mm	12.3g

Balgensauger I *Bellow cups*

210.040.113._

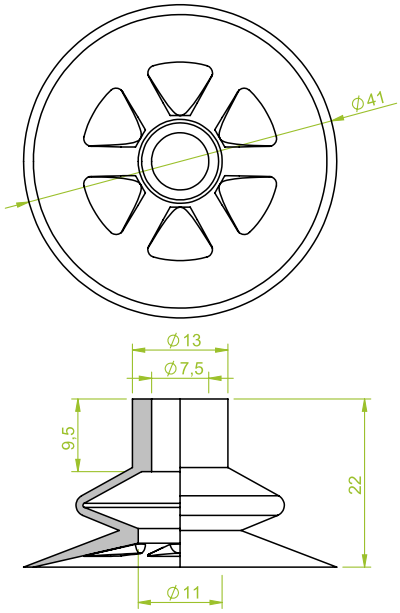


Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.609	1/4" AG

7mm	18g

210.040.122._

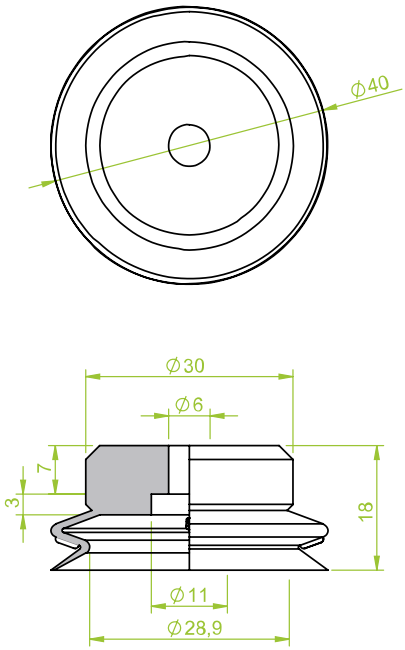


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.248	1/4" IG
130.249	1/4" AG

9mm	4g

210.040.153._

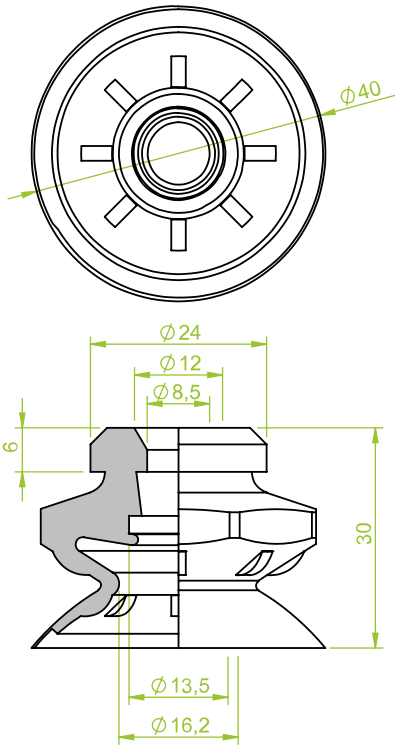


Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.538	1/8" AG

5mm	9.8g

210.040.173._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.281	1/4" AG
130.282	1/4" IG
130.510	1/8" AG

10mm	12.5g

MORALI VACTEC SYSTEMS

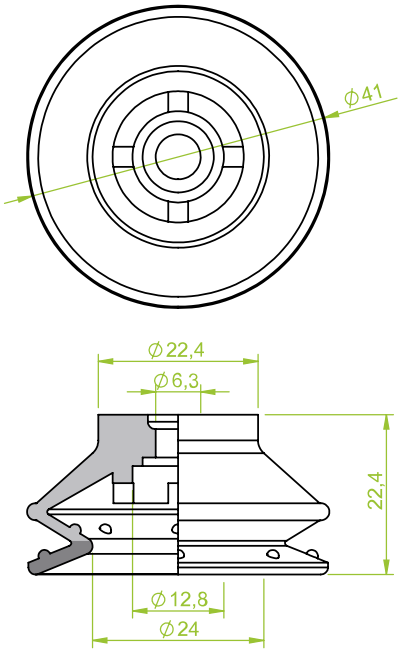
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.040.803._

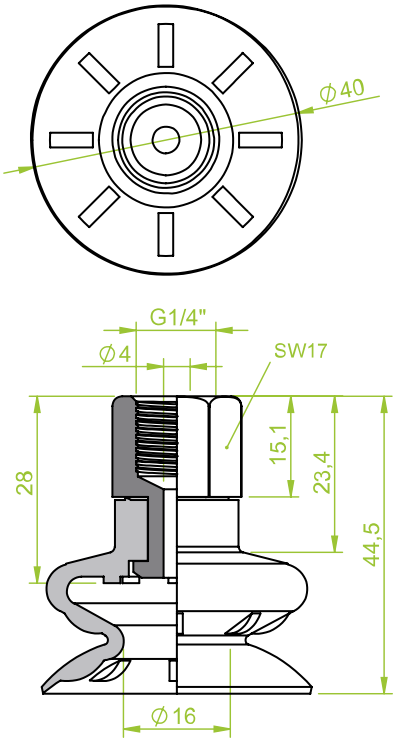


Materialcode
05 Polyurethan
20 TPU

Halter *Fitting*	Gewinde *Thread*
130.251	1/8" IG
130.293	1/4" AG
130.501	1/8" IG
130.549	1/8" AG
130.630	1/8" AG
130.902	1/4" AG
130.903	1/4" IG

9.3mm	11.7g

211.040.011._

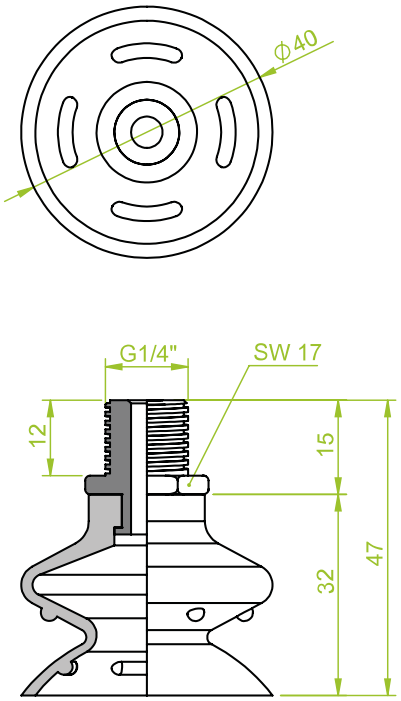


Materialcode
06 EPDM
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*

13mm	12.3g

212.040.003._

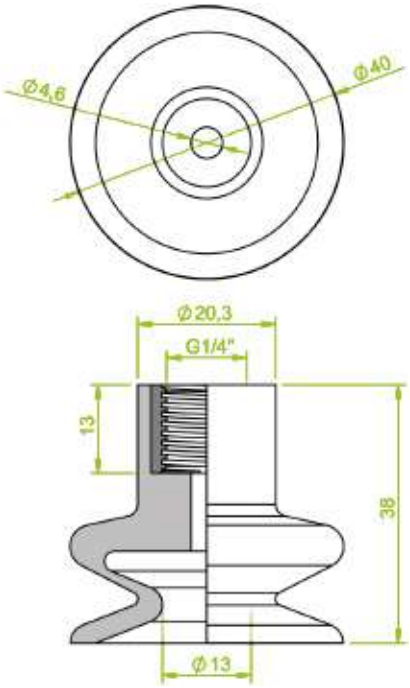


Materialcode
06 EPDM
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*

13mm	12.3g

213.040.011._



Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	18g

Morali Produktionstechnik GmbH
Handling technology

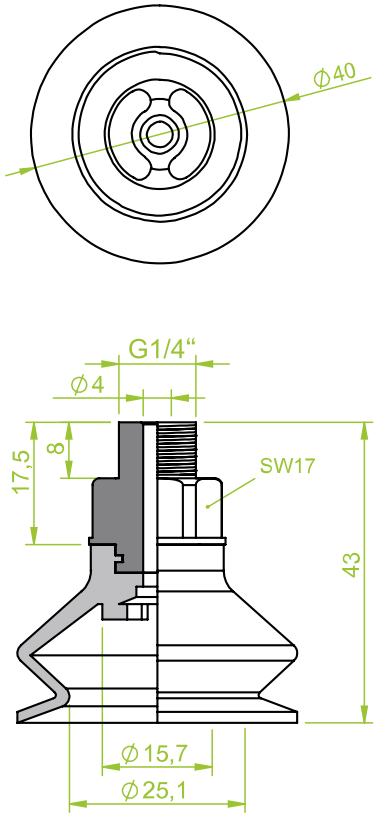
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

214.040.014._

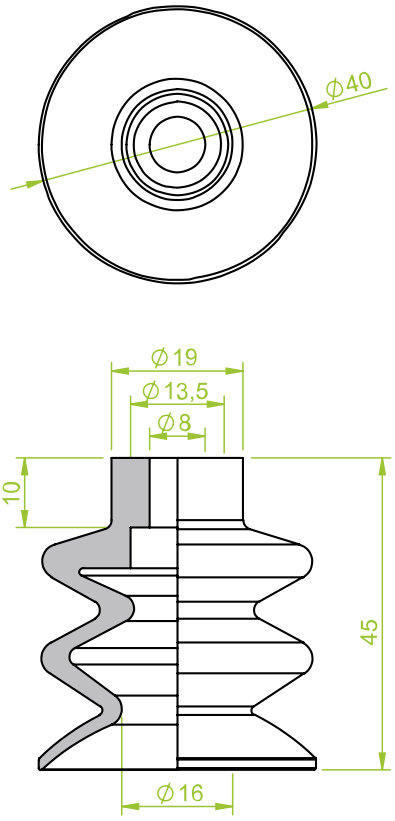


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

14mm	36g

220.040.010._

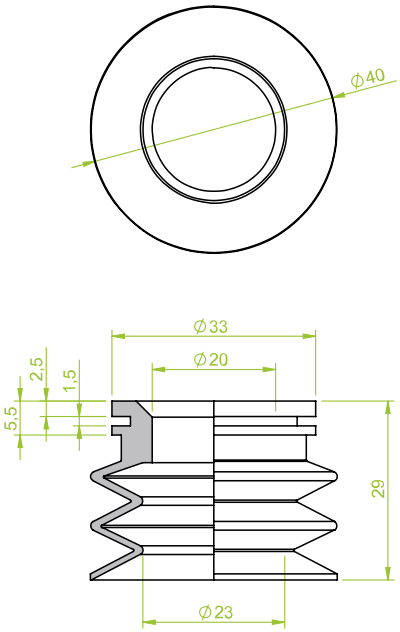


Materialcode
06 EPDM 03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.099	1/4" AG
130.248	1/4" IG
130.249	1/4" AG
130.315	M6 AG

20mm	17.6g

220.040.040._

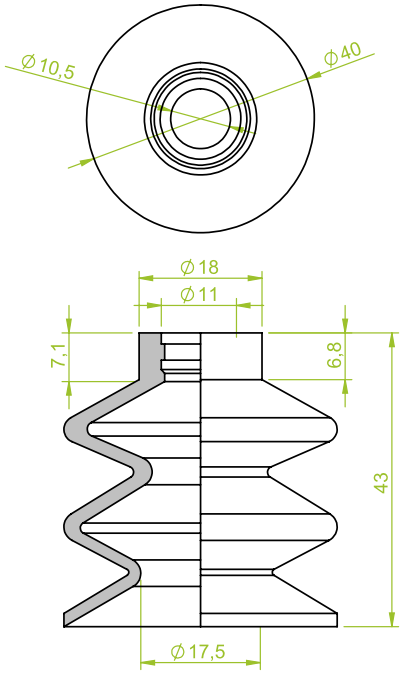


Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.616	1/2" AG

13mm	9.1g

220.040.079._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG

20mm	14g

MORALI VACTEC SYSTEMS

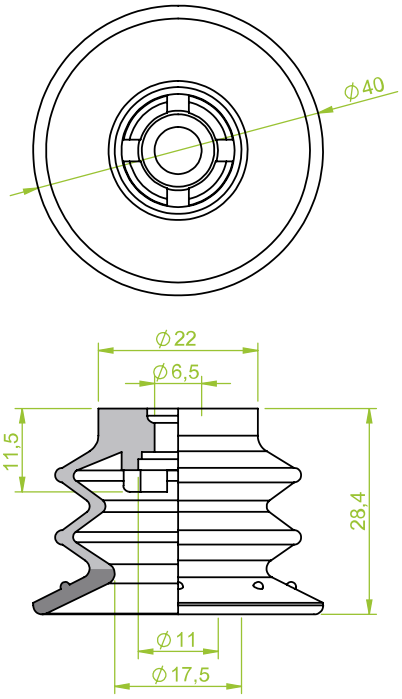
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

220.040.802._

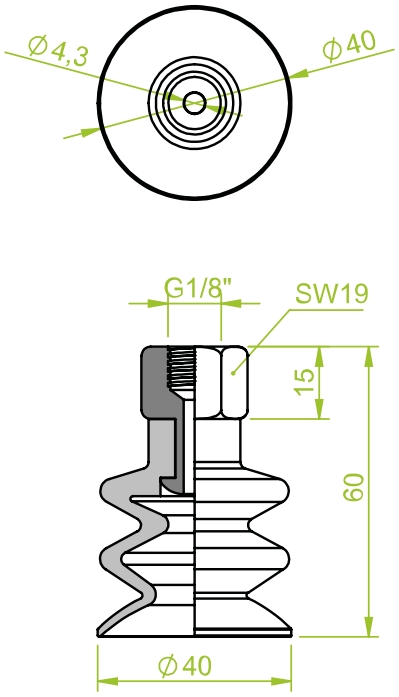


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.251	1/8" IG
130.293	1/4" AG
130.501	1/8" IG
130.549	1/8" AG

14.7mm	10.4g

221.040.007._

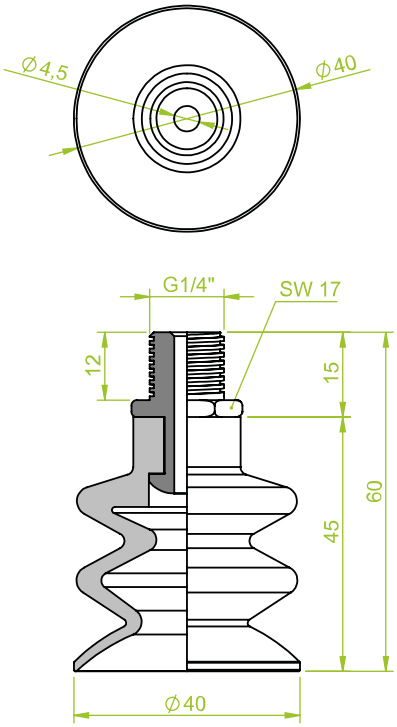


Materialcode
06 EPDM 09 HNBR 03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	17.6g

222.040.005._

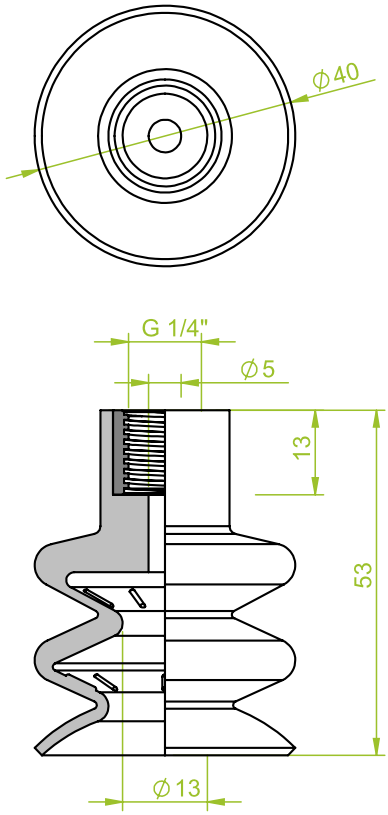


Materialcode
06 EPDM 09 HNBR 03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	17.6g

223.040.006._



Materialcode
03 NR 02 Silikon

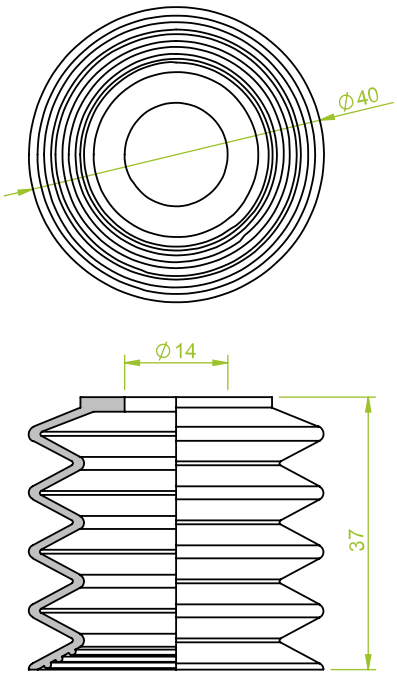
Halter *Fitting*	Gewinde *Thread*

16mm	20g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

240.040.001._

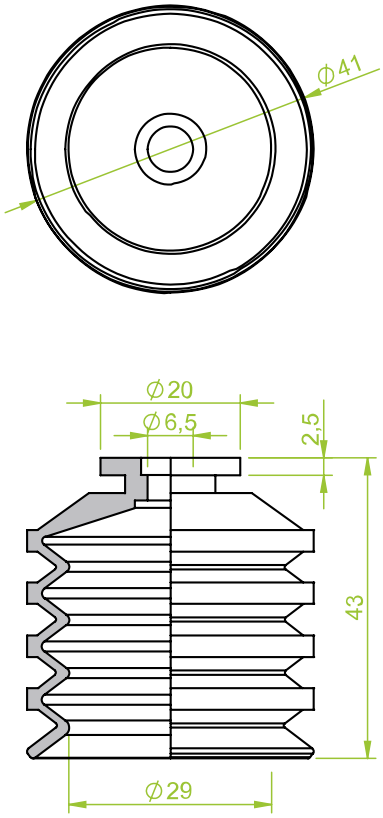


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182	1/4" IG
130.183	1/4" AG

24mm	7g

240.040.004._

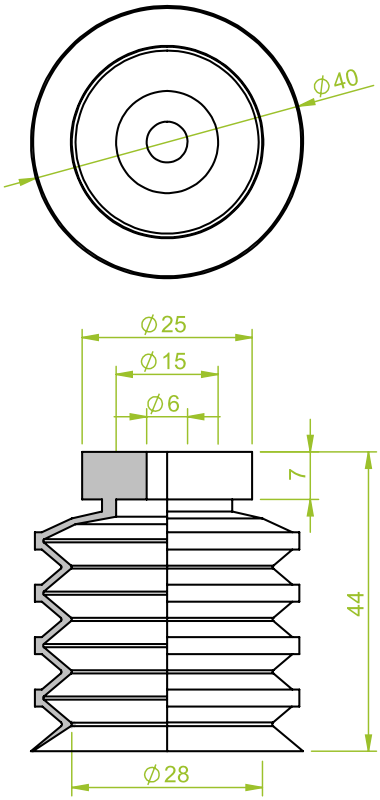


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.136	1/8" IG
130.251	1/8" IG
130.274	1/4" AG
130.293	1/4" AG

20mm	15g

240.040.021._

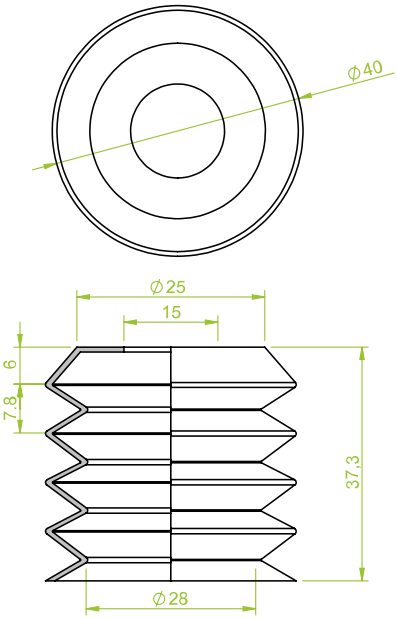


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.628	M8 AG

21mm	14g

240.040.022._



Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.109	1/8" IG
130.182	1/4" IG
130.183	1/4" AG
130.238	1/8" AG

26mm	7.1g

MORALI VACTEC SYSTEMS

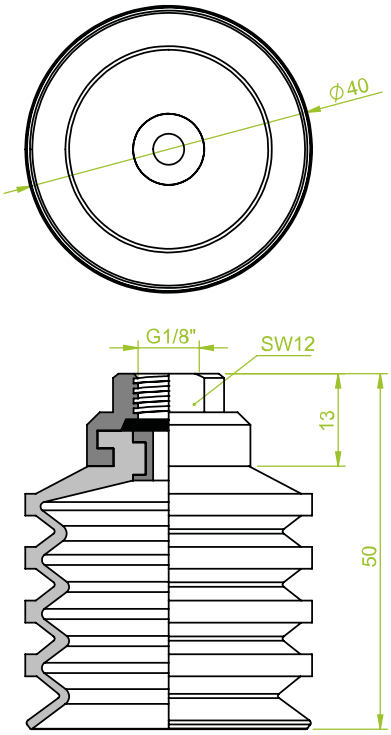
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

241.040.003._

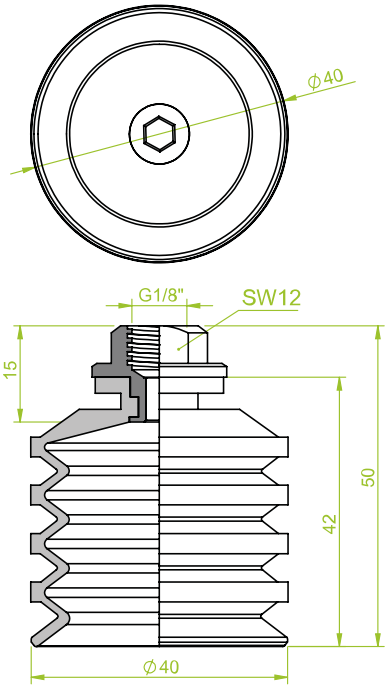


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	36g

241.040.007._

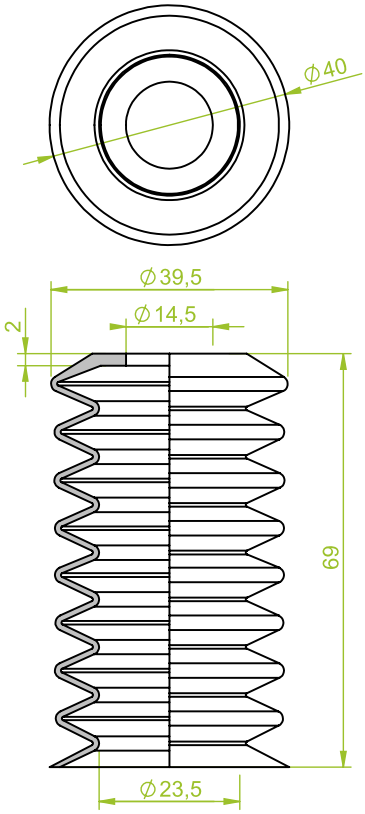


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	15g

250.040.010._

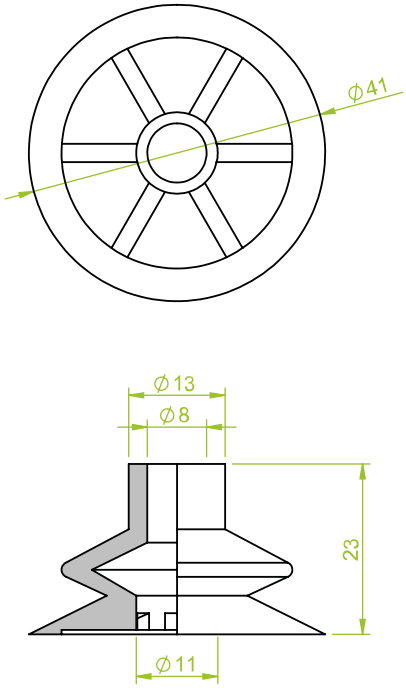


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182 130.183	1/4" IG 1/4" AG

40mm	18g

210.041.108._



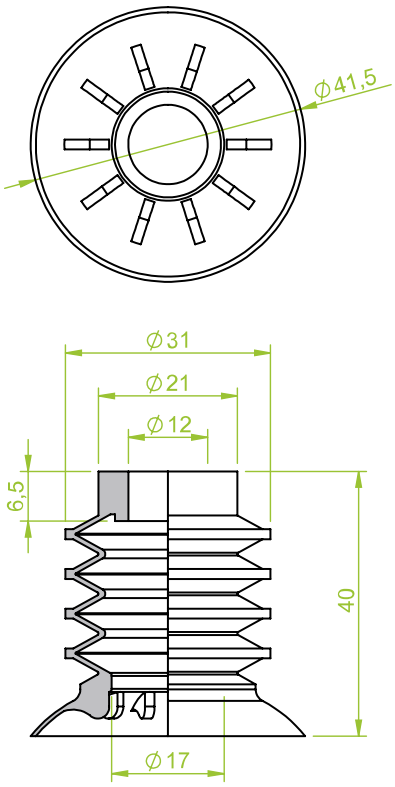
Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092 130.093 130.248 130.249	1/8" IG 1/8" AG 1/4" IG 1/4" AG

7mm	5g

Balgensauger I *Bellow cups*

240.041.031._

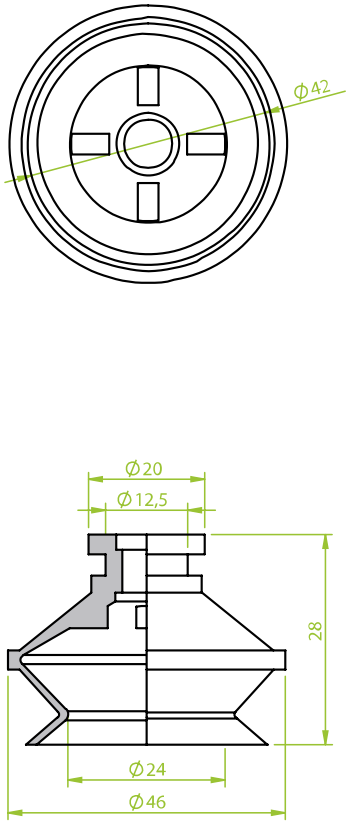


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.294	1/4" AG
130.296	3/8" AG
130.600	3/8" AG
130.609	1/4" AG

16mm	9g

210.042.020._

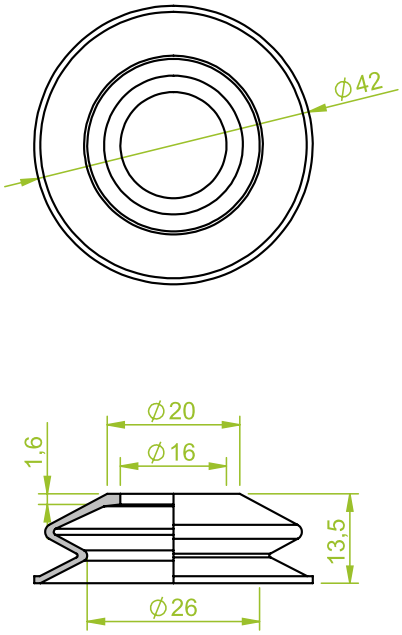


Materialcode
03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.093	1/8" AG
130.136	1/8" IG
130.251	1/8" IG
130.293	1/4" AG

9mm	10g

210.042.123._

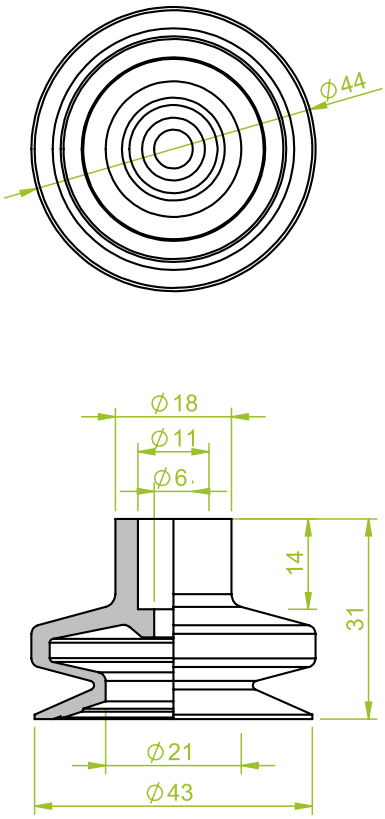


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.182	1/4" IG

11mm	3g

210.042.124._



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.181	1/8" AG

14mm	12g

MORALI VACTEC SYSTEMS

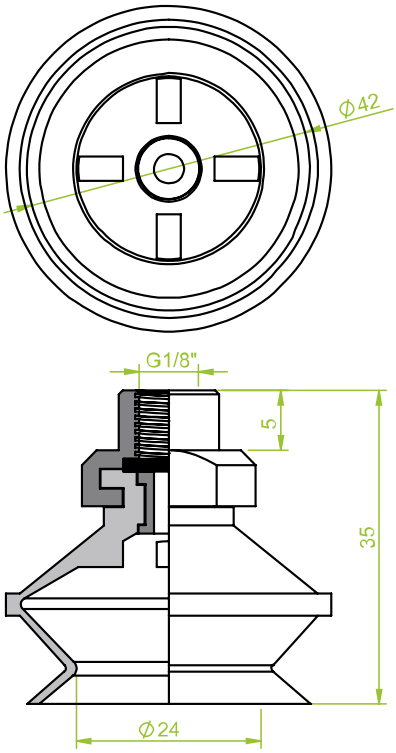
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

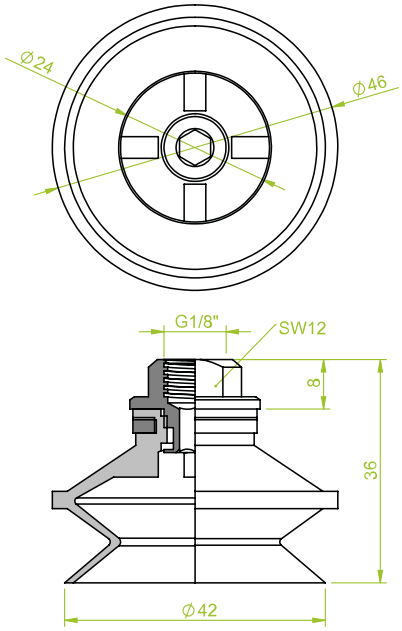
211.042.004._



Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
9mm	28g

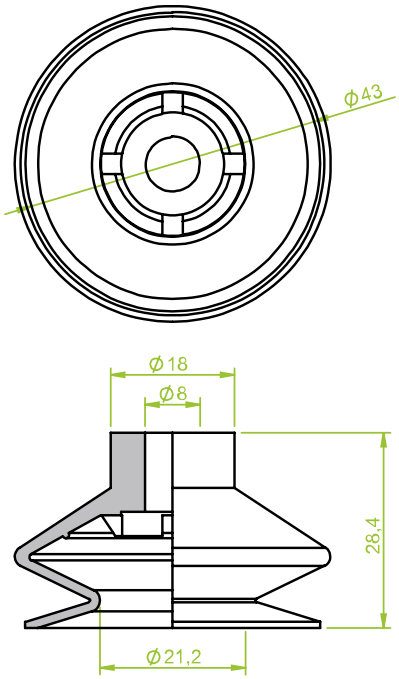
211.042.012._



Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
9mm	10g

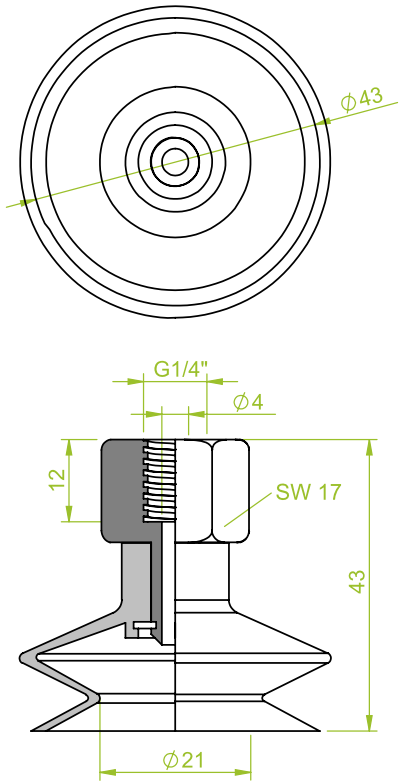
210.043.005._



Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG
130.315	M6 AG
12mm	10g

211.043.014._

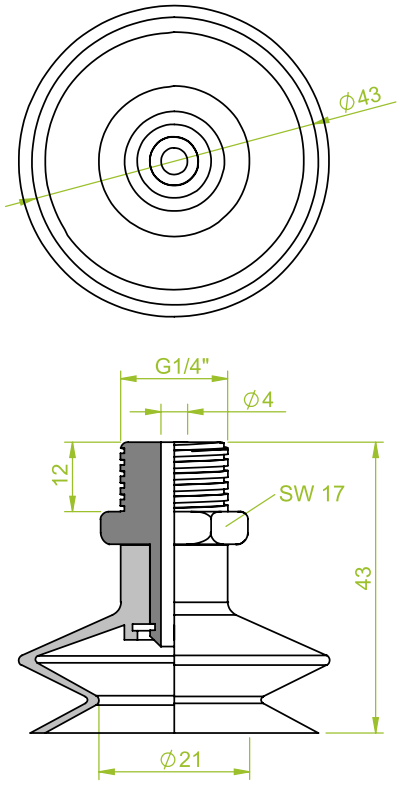


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	20g

Balgensauger I *Bellow cups*

212.043.005._

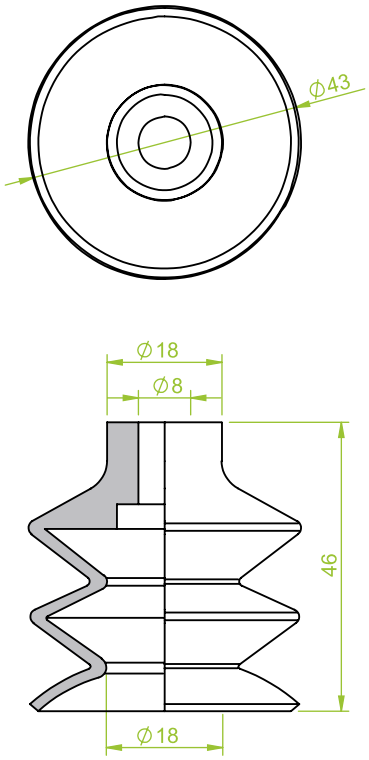


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	18g

220.043.004._

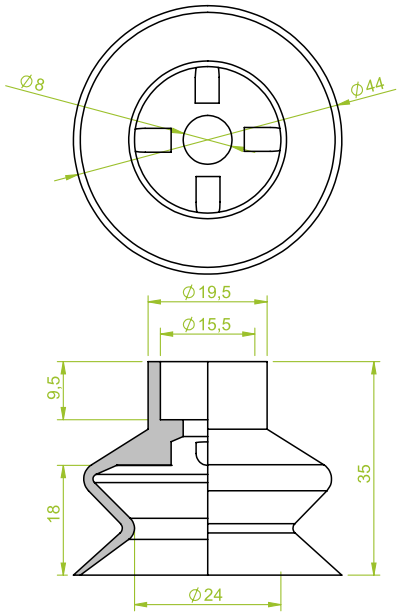


Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG
130.315	M6 AG

19mm	18g

210.044.058._

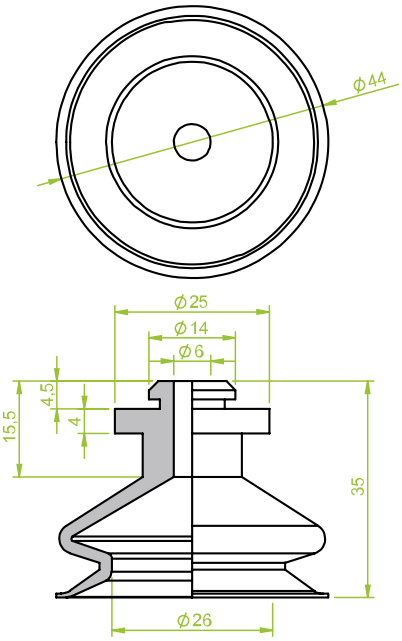


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

15mm	9.6g

210.044.121._



Materialcode
09 HNBR

Halter *Fitting*	Gewinde *Thread*

17.5mm	13g

MORALI VACTEC SYSTEMS

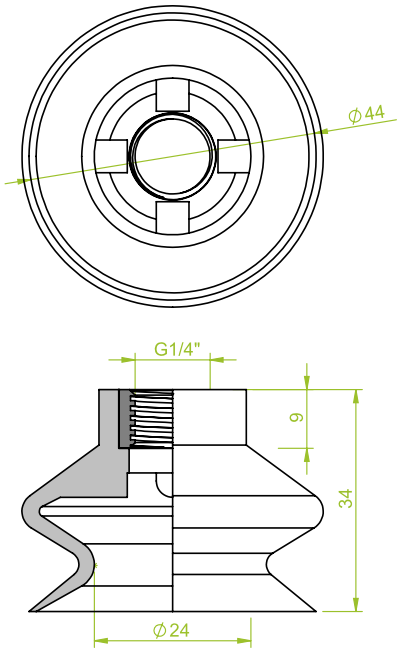
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

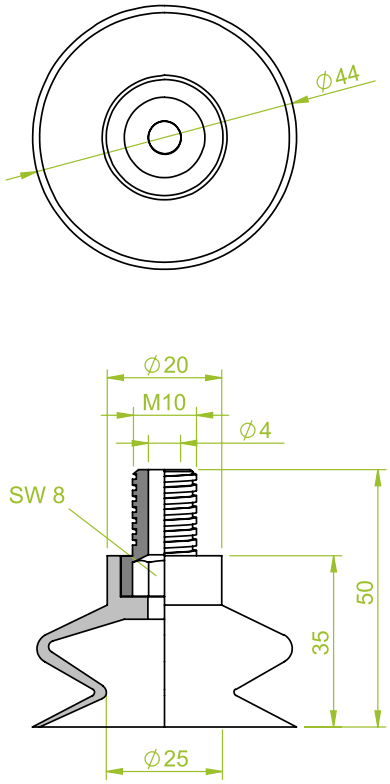
213.044.008._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
15mm	15g

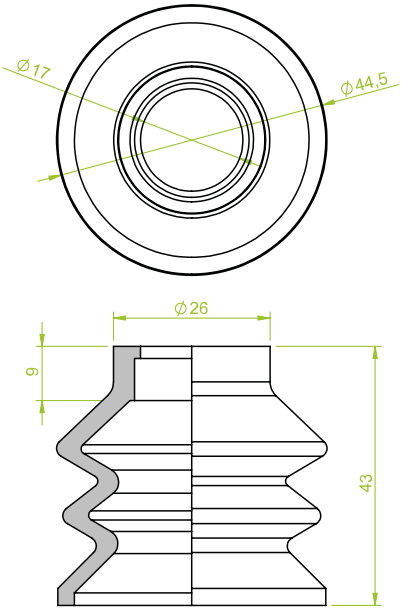
214.044.001._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
14mm	25g

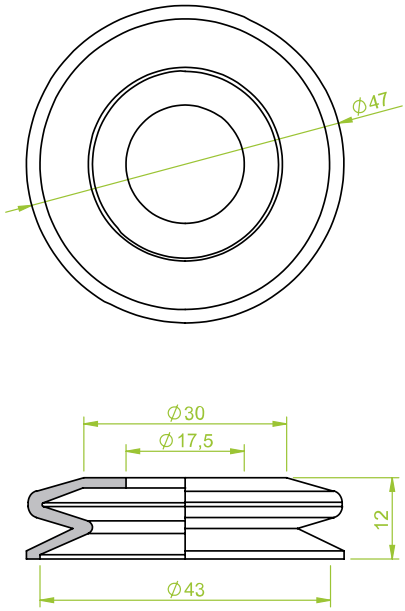
220.045.103._



Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
mm	0g

210.046.174._



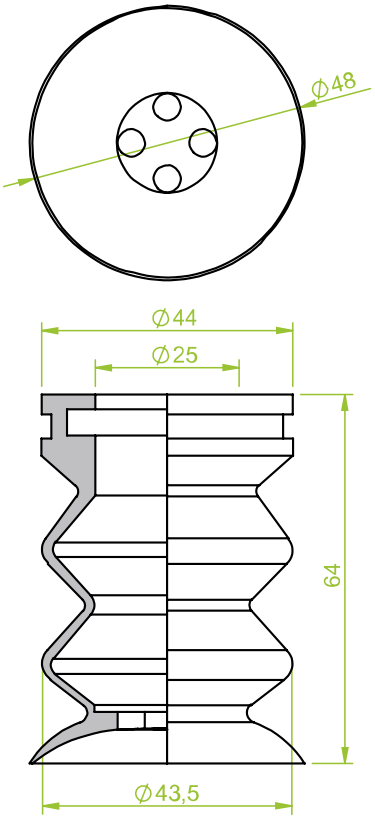
Materialcode
03 NR V Vinyl

Halter *Fitting*	Gewinde *Thread*
7mm	6g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

220.048.095._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

25mm	33g

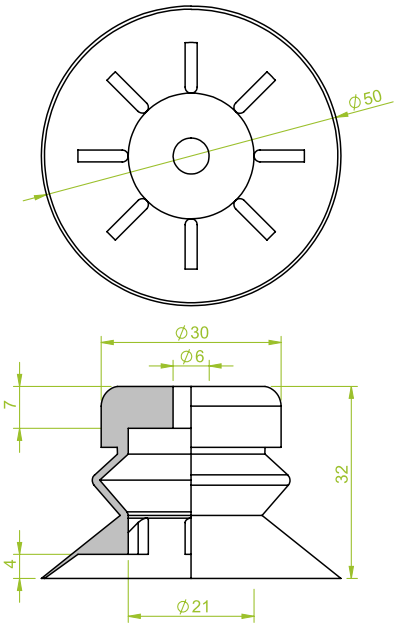
210.050.032._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.137	1/8" IG
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG

12mm	22g

210.050.039._

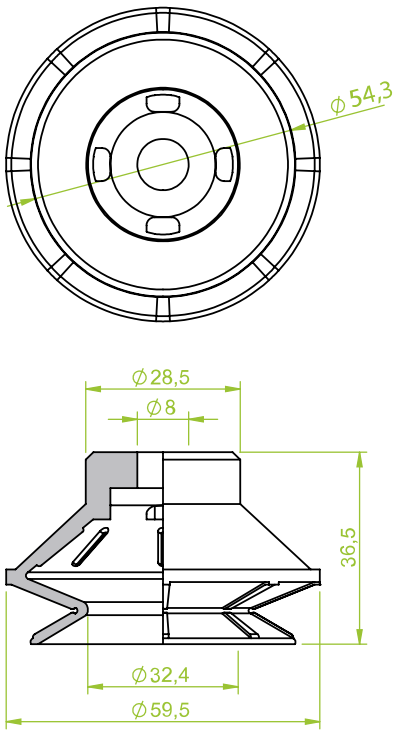


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.256	M8 AG

10mm	12.8g

210.050.057._



Materialcode
04 CR 09 HNBR 03 NR 05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.314	M6 AG

10mm	22.3g

MORALI VACTEC SYSTEMS

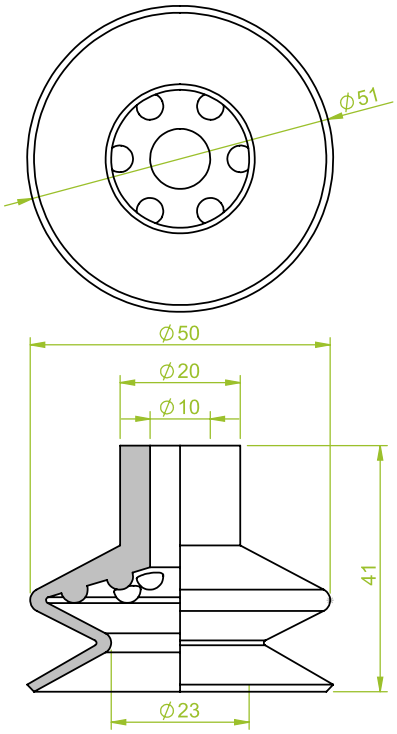
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.050.115._

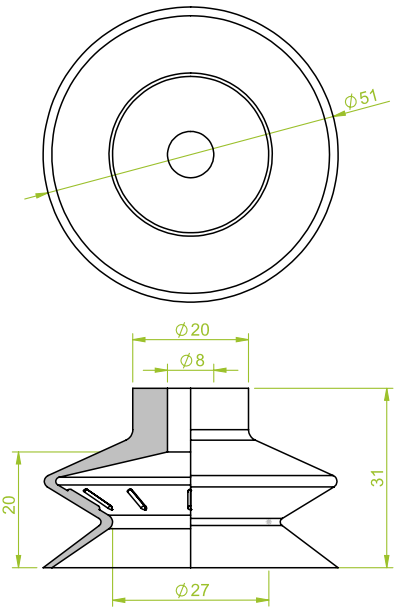


Materialcode
04 CR
03 NR
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.137	1/8" IG
130.177	M10 AG
130.190	1/4" AG
130.192	1/4" IG
130.244	M5 AG
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG

11mm	20g

210.050.116._

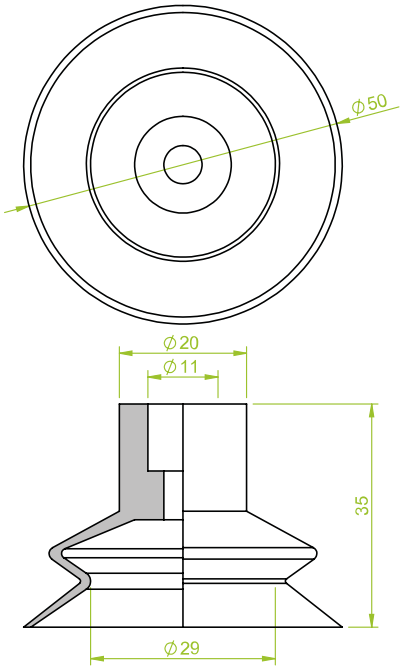


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.248	1/4" IG
130.249	1/4" AG
130.315	M6 AG

10mm	19g

210.050.117._

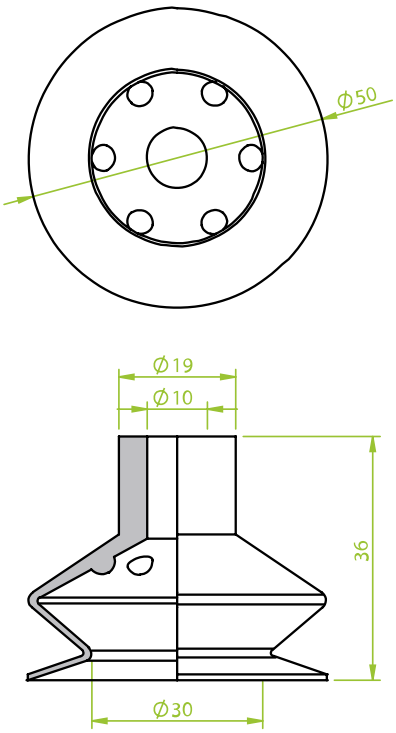


Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.609	1/4" AG

12mm	18g

210.050.118._



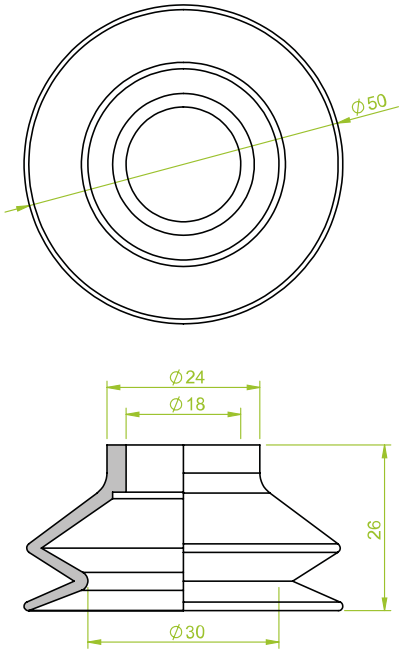
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
130.132	1/8" AG
130.614	1/4" AG

10mm	20g

Balgensauger I *Bellow cups*

210.050.119._

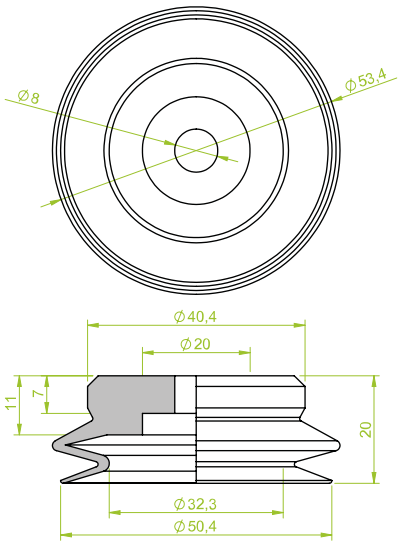


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	12.6g

210.050.221._

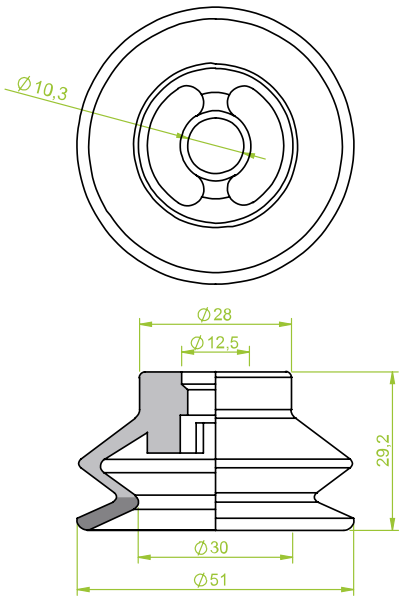


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.012	1/8" AG
130.020	1/8" IG
130.315	M6 AG
130.518	1/4" AG

mm	23g

210.050.804._

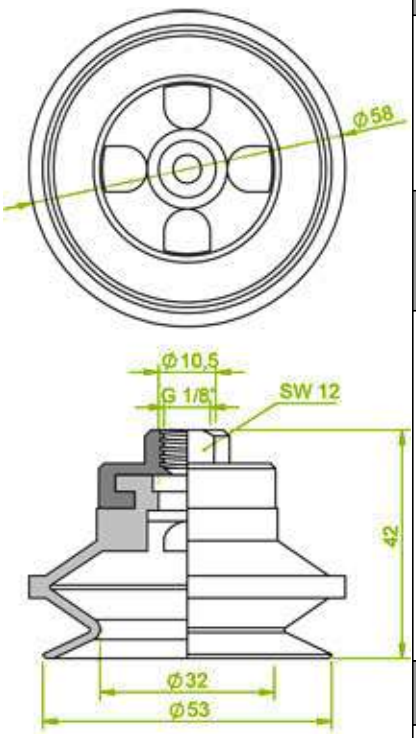


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG
130.904	3/8" AG
130.905	3/8" IG
130.908	1/4" AG
130.909	1/4" IG

14.4mm	20.5g

211.050.005._

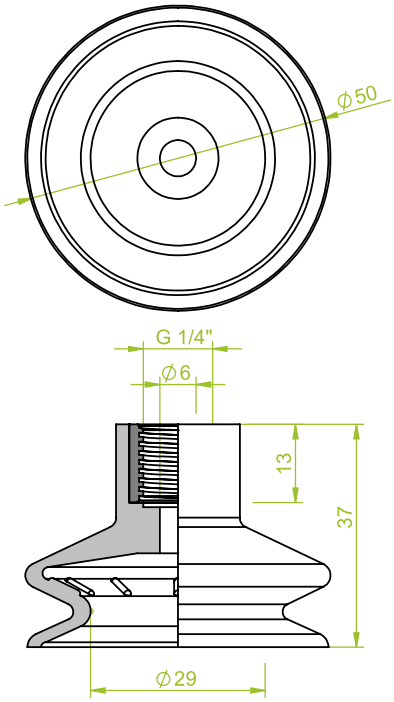


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

12mm	54g

213.050.012._

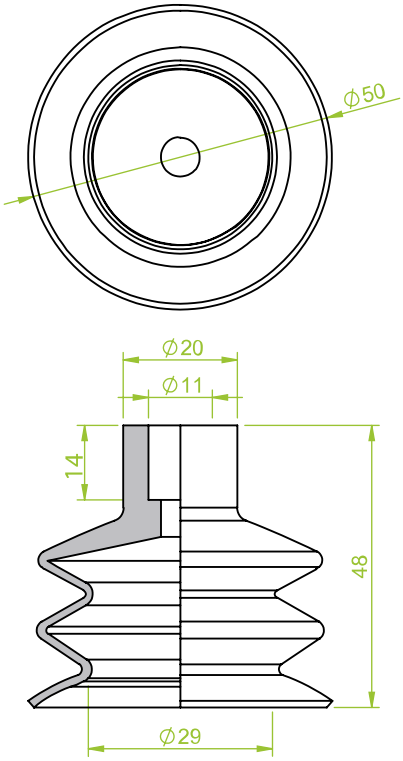


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

12mm	21g

220.050.038._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097 130.098 130.609	1/4" AG 1/4" IG 1/4" AG

18mm	20g

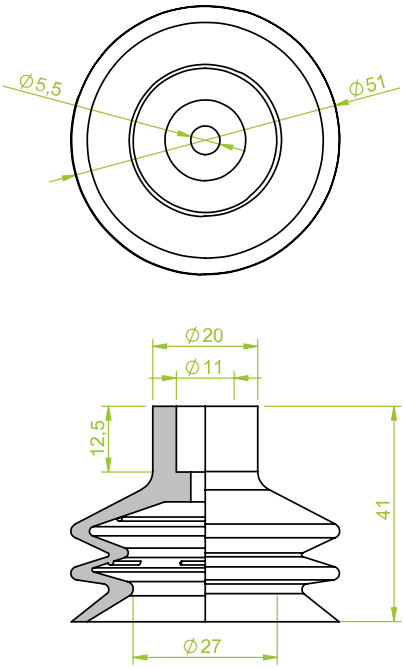
220.050.081._

Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

15mm	20g

220.050.082._



Materialcode
03 NR 02 Silikon

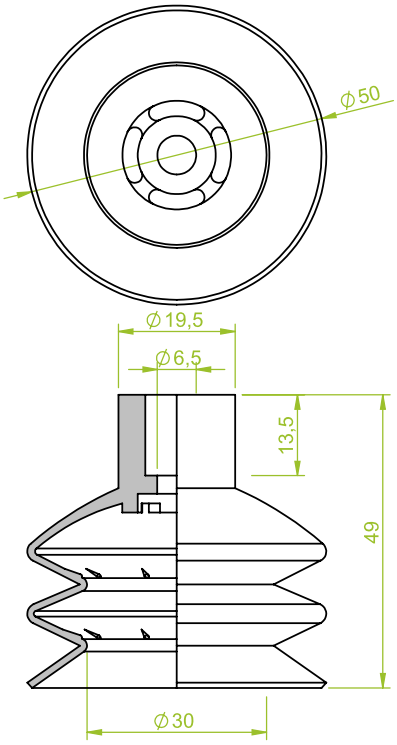
Halter *Fitting*	Gewinde *Thread*
130.097 130.098 130.609	1/4" AG 1/4" IG 1/4" AG

8mm	30g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

220.050.083._

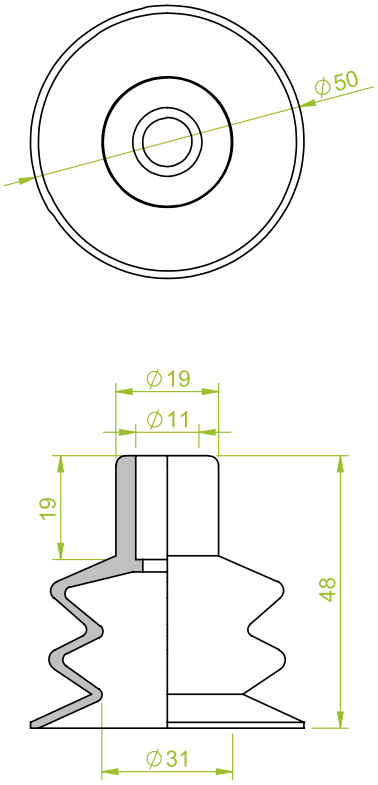


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.609	1/4" AG

20mm	20g

220.050.084._

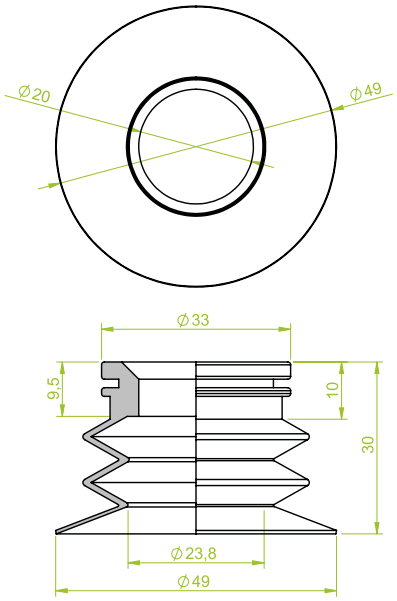


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG
130.609	1/4" AG

25mm	20g

220.050.120._

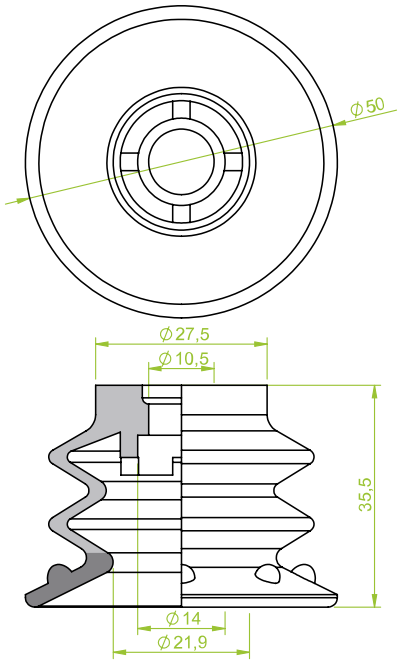


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.616	1/2" AG

13mm	12g

220.050.803._

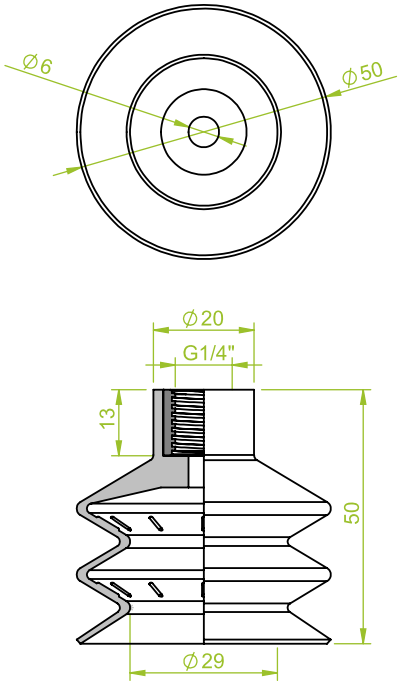


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG
130.908	1/4" AG
130.909	1/4" IG

20mm	20g

223.050.001._

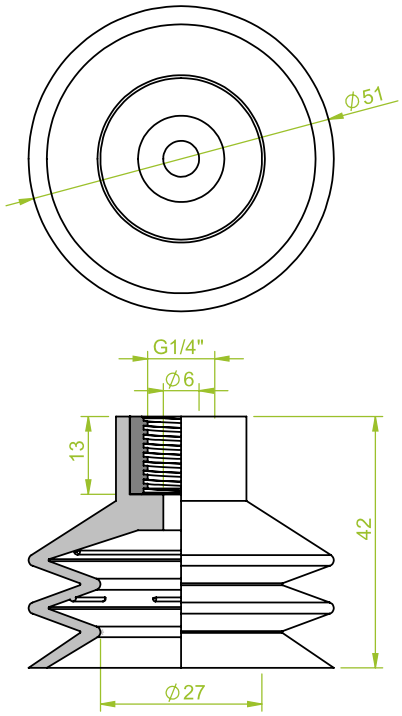


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

18mm	30g

223.050.009._

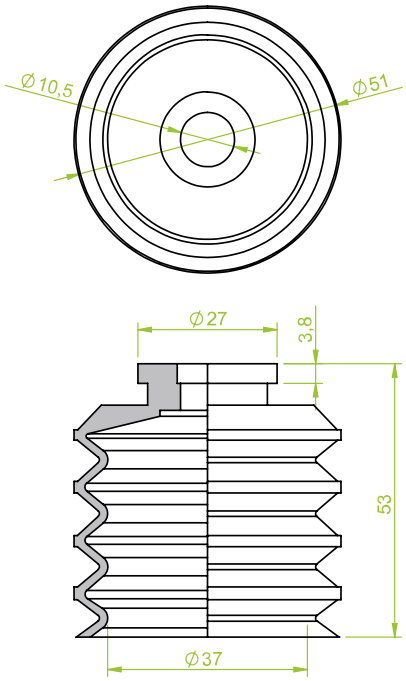


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	30g

240.050.005._

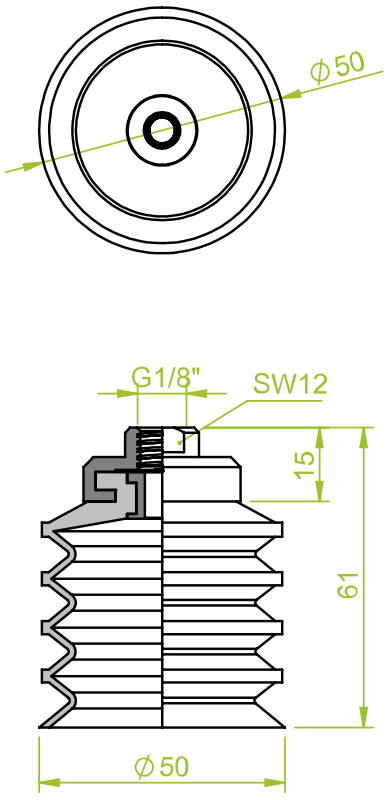


Materialcode
04 CR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.252 130.294 130.296	1/8" IG 1/4" AG 3/8" AG

25mm	25g

241.050.004._



Materialcode
04 CR 02 Silikon

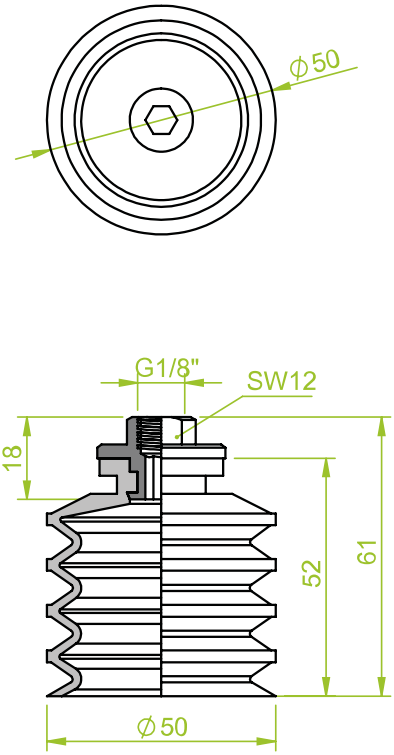
Halter *Fitting*	Gewinde *Thread*

25mm	37g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

241.050.008._

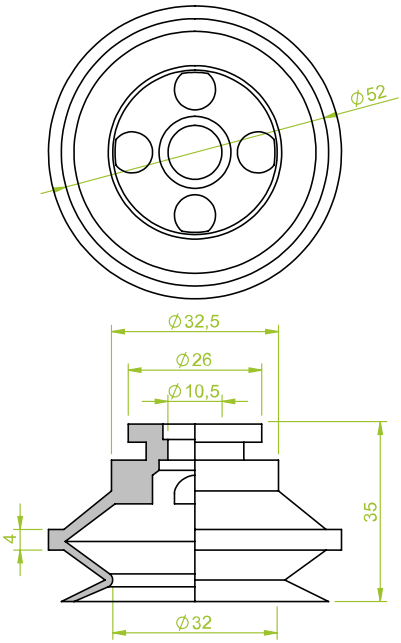


Materialcode
04 CR
02 Silikon

Halter *Fitting*	Gewinde *Thread*

25mm	25g

210.052.032._

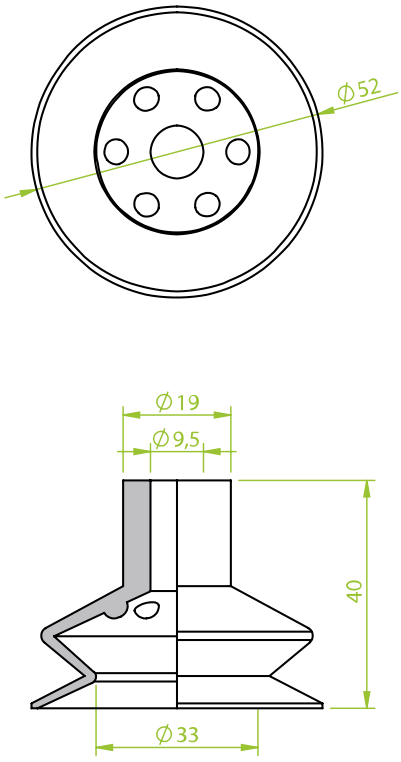


Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
130.137	1/8" IG
130.252	1/8" IG
130.294	1/4" AG
130.296	3/8" AG

12mm	22g

210.052.125._

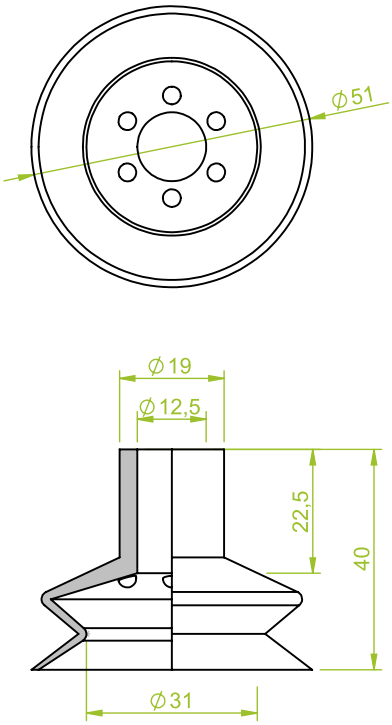


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG
130.208	1/4" AG

6mm	16g

210.052.129._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.207	1/4" AG

6mm	14g

MORALI VACTEC SYSTEMS

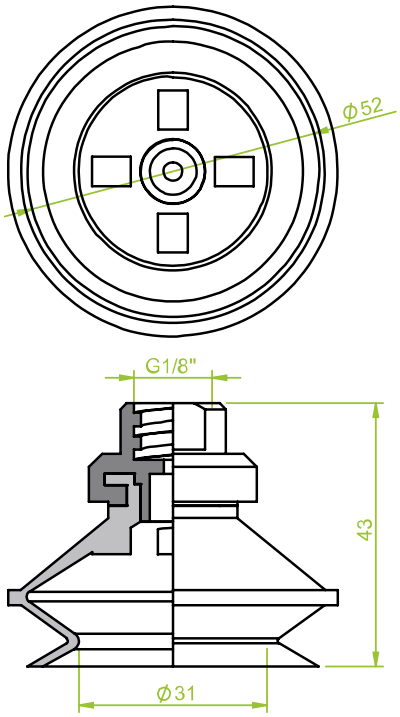
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

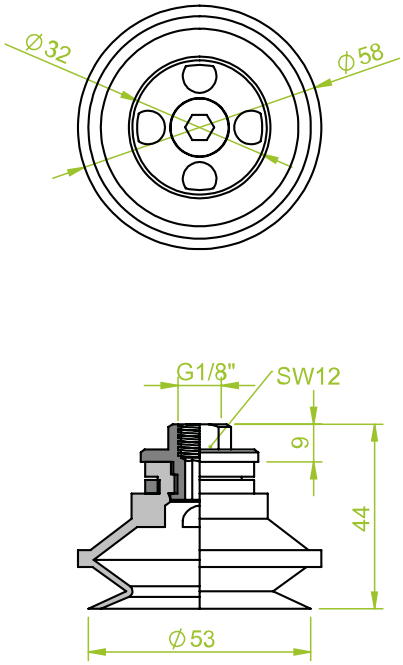
211.052.005._



Materialcode
04 CR
07 FKM
09 HNBR
03 NR

Halter *Fitting*	Gewinde *Thread*
12mm	54g

211.052.013._



Materialcode
04 CR
07 FKM
09 HNBR
03 NR

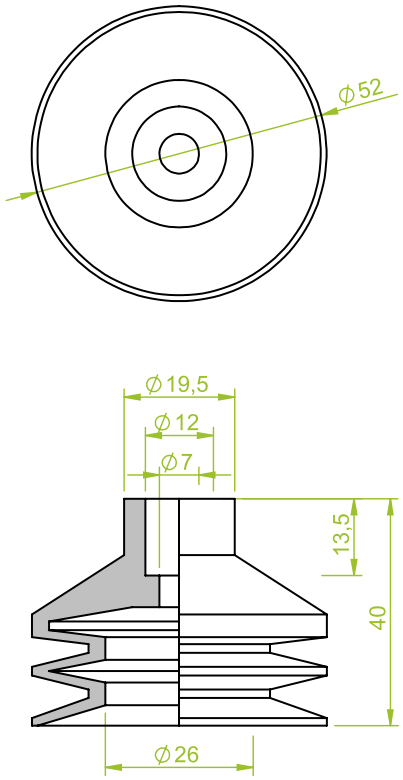
Halter *Fitting*	Gewinde *Thread*
12mm	22g

212.052.013._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
14mm	32.8g

220.052.085._



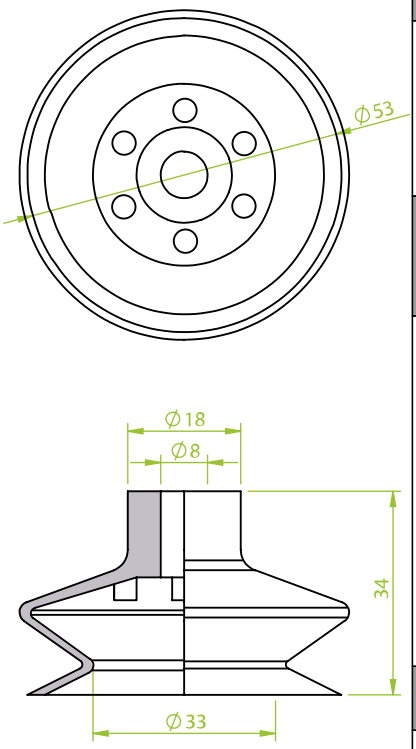
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.101	1/4" AG
12mm	25g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

210.053.017._



Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.114	1/8" IG
130.132	1/8" AG
130.190	1/4" AG
130.192	1/4" IG

11mm	19g

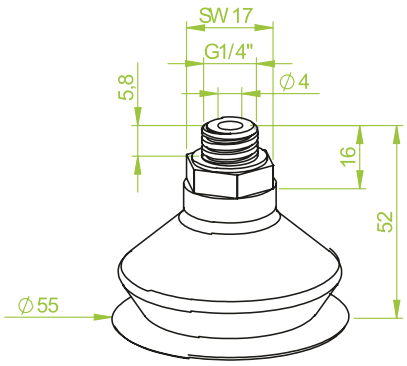
212.053.009._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

14mm	32.7g

214.055.015._

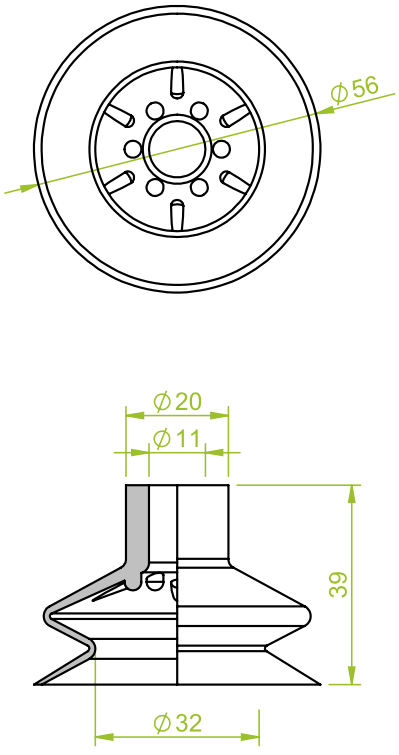


Materialcode
05 Polyurethan
02 Silikon

Halter *Fitting*	Gewinde *Thread*

20mm	47g

210.056.127._



Materialcode
03 NR
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049	1/4" AG
130.609	1/4" AG

16mm	16g

MORALI VACTEC SYSTEMS

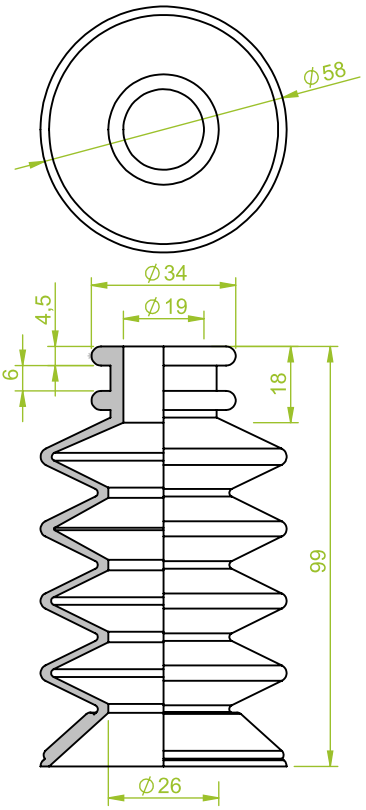
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

240.058.025._

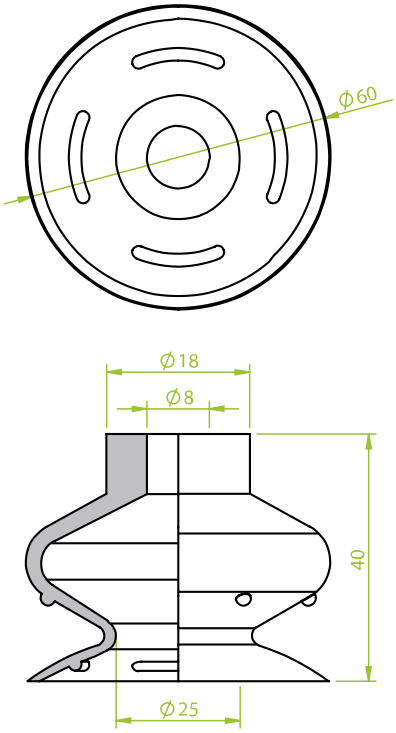


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

55mm	46g

210.060.023._

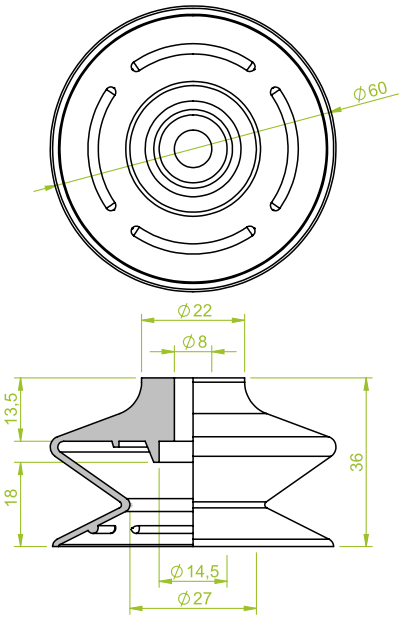


Materialcode
03 NR 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.099	1/4" AG
130.248	1/4" IG
130.249	1/4" AG

15mm	33g

210.060.130._

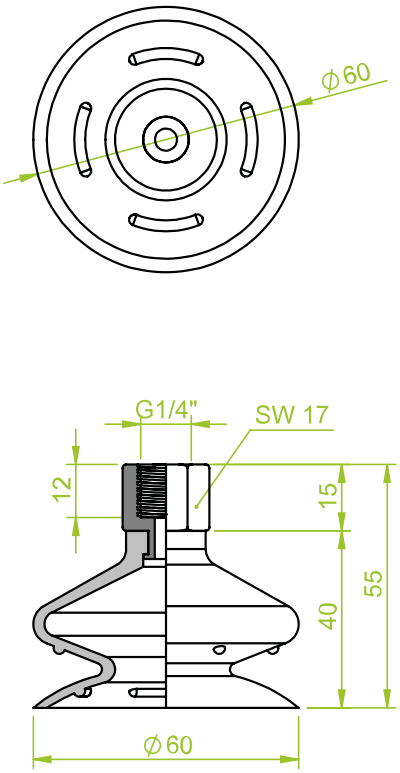


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.281	1/4" AG
130.282	1/4" IG

12mm	40g

211.060.012._



Materialcode
03 NR 05 Polyurethan 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

15mm	33g

Morali Produktionstechnik GmbH
Handling technology

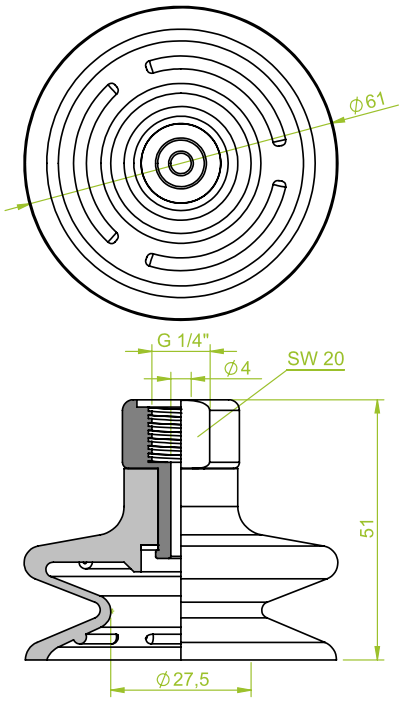
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

211.060.015._

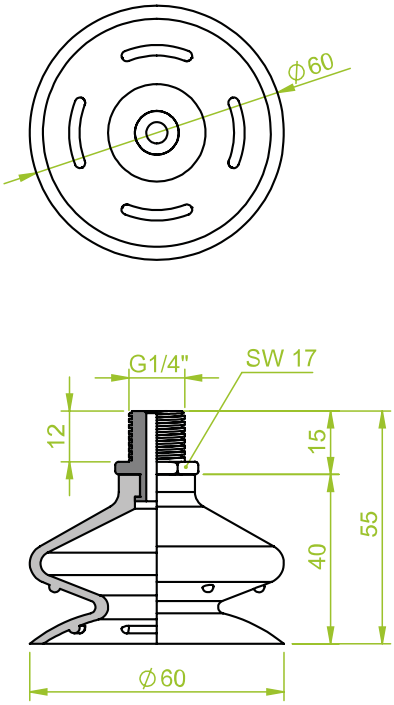


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

11mm	45g

212.060.004._

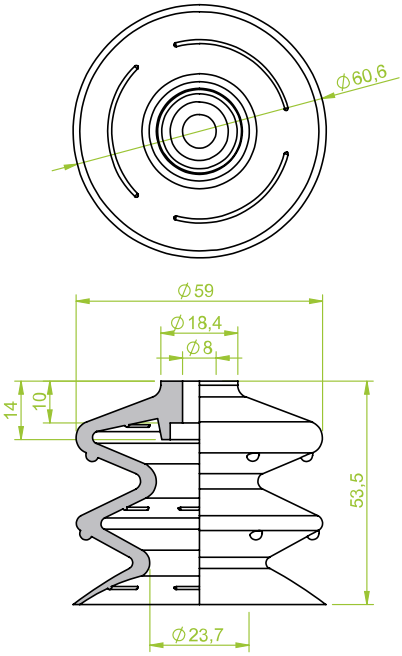


Materialcode
03 NR 05 Polyurethan 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

15mm	33g

220.060.026._

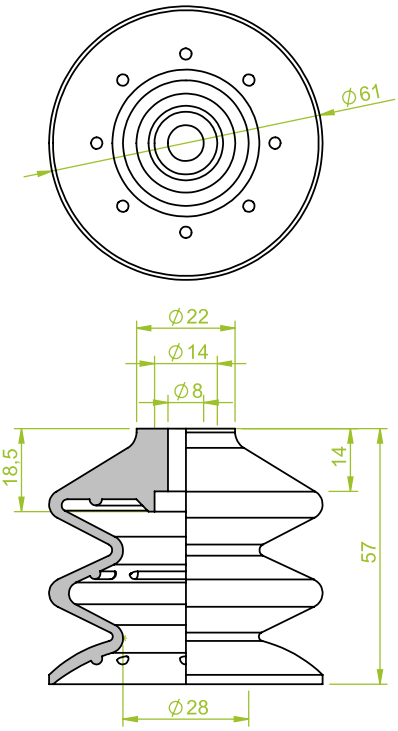


Materialcode
06 EPDM 03 NR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.099	1/4" AG
130.248	1/4" IG
130.249	1/4" AG

24mm	60g

220.060.037._



Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.281	1/4" AG
130.282	1/4" IG
130.315	M6 AG

25mm	40g

MORALI VACTEC SYSTEMS

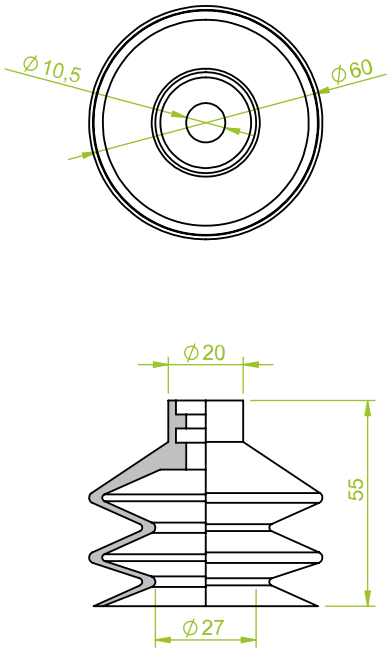
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

220.060.086._

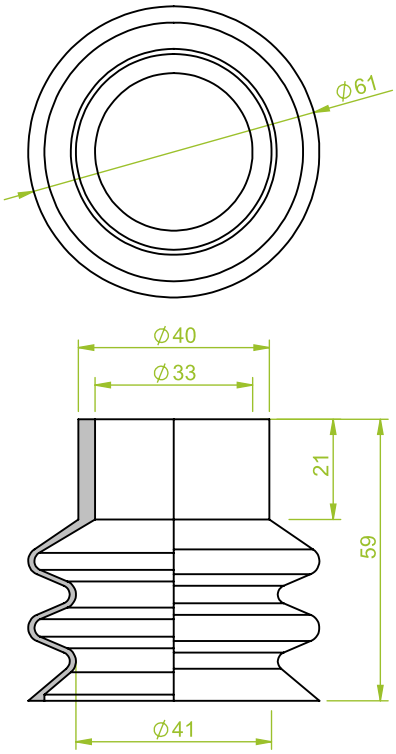


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG

27mm	40g

220.060.087._

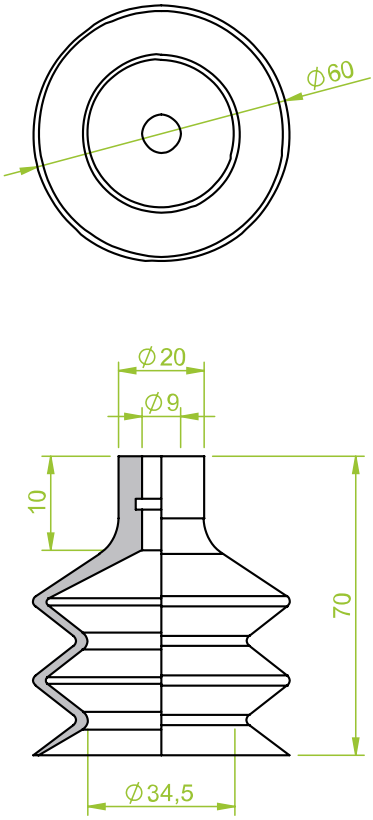


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

25mm	30g

220.060.100._

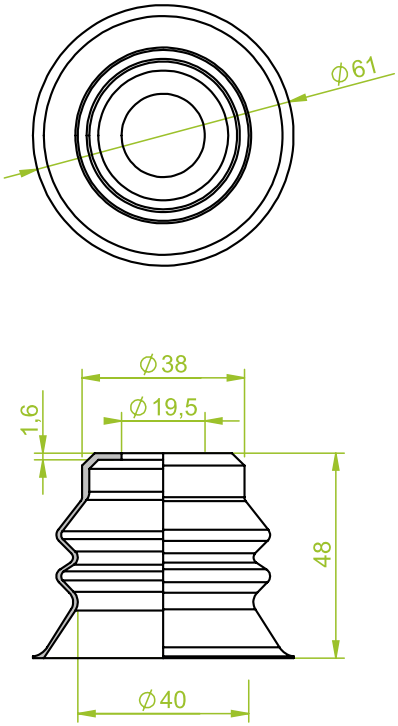


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.132	1/8" AG
130.248	1/4" IG
130.249	1/4" AG

35mm	29.6g

220.060.131._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

12mm	0g

Morali Produktionstechnik GmbH
Handling technology

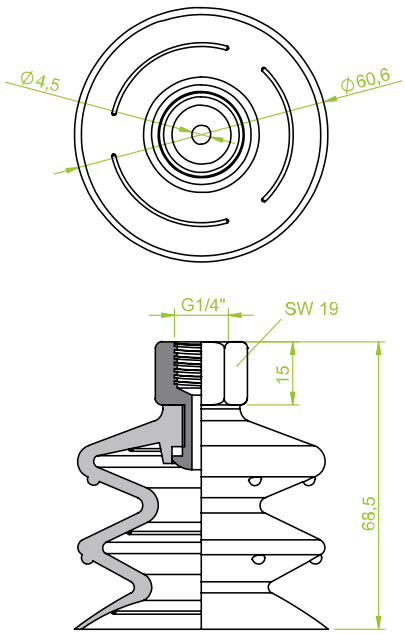
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

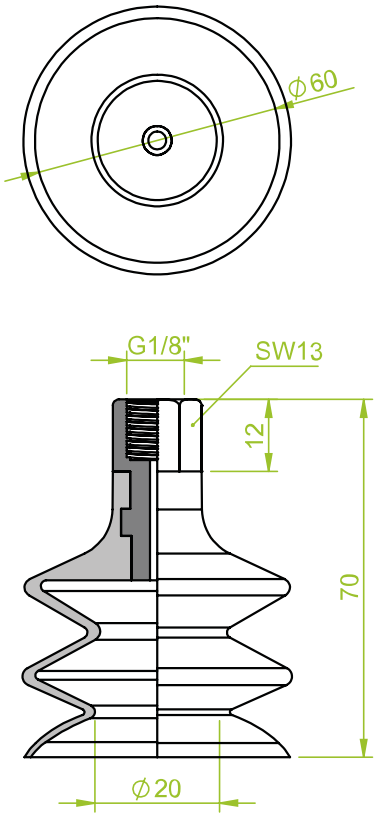
221.060.010._



Materialcode
06 EPDM
05 Polyurethan
02 Silikon
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
24mm	55g

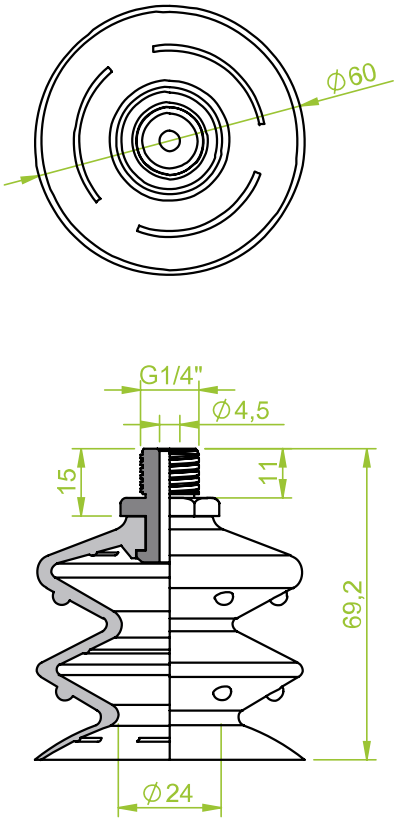
221.060.026._



Materialcode

Halter *Fitting*	Gewinde *Thread*
35mm	37.6g

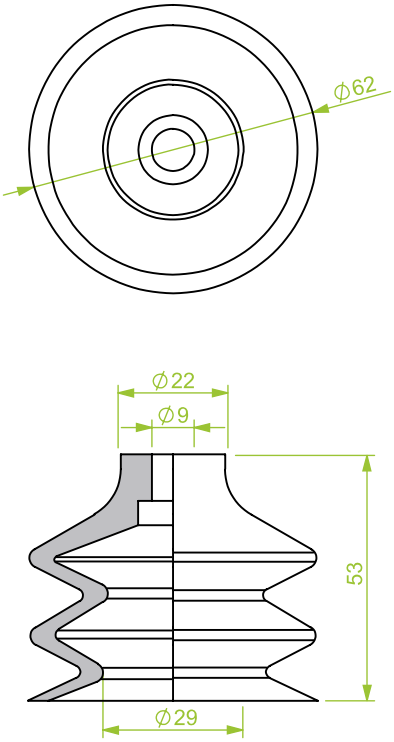
222.060.006._



Materialcode
06 EPDM
05 Polyurethan
02 Silikon
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
24mm	54.8g

220.062.035._



Materialcode
04 CR
09 HNBR
03 NR
05 Polyurethan

Halter *Fitting*	Gewinde *Thread*
130.092	1/8" IG
130.093	1/8" AG
130.281	1/4" AG
130.282	1/4" IG
25mm	45.7g

MORALI VACTEC SYSTEMS

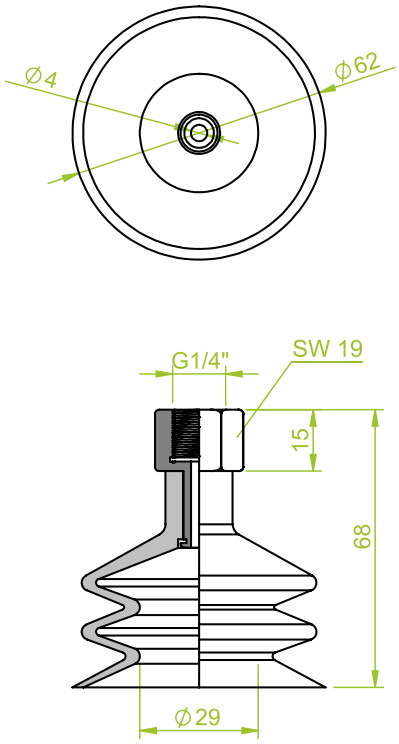
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

221.062.002._

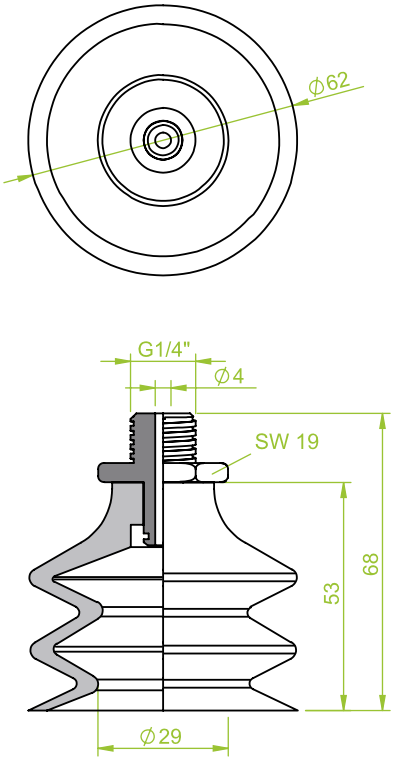


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.282	1/4" IG

25mm	60g

222.062.009._

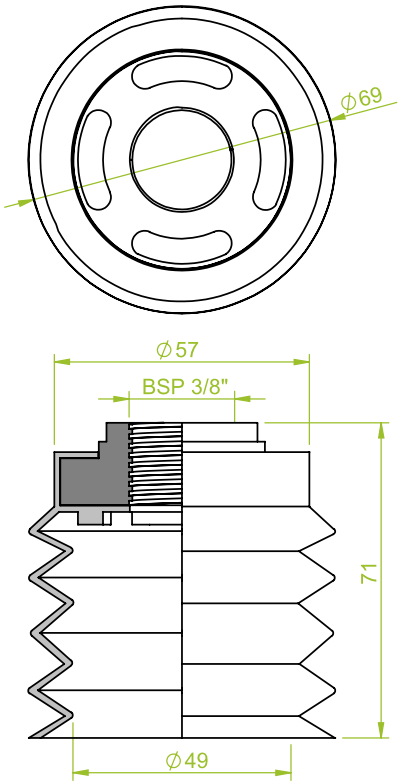


Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.281	1/4" AG

25mm	60g

243.069.001._

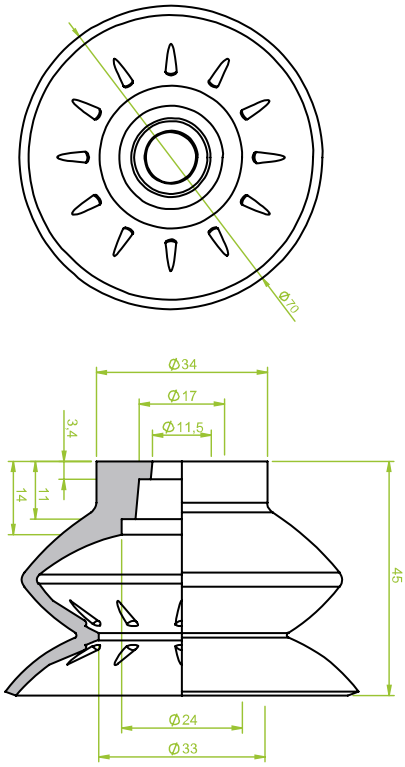


Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

32mm	122g

210.070.105._



Materialcode
02 Silikon V Vinyl

Halter *Fitting*	Gewinde *Thread*
130.145 130.184	1/4" AG 1/4" AG

20mm	40g

Morali Produktionstechnik GmbH
Handling technology

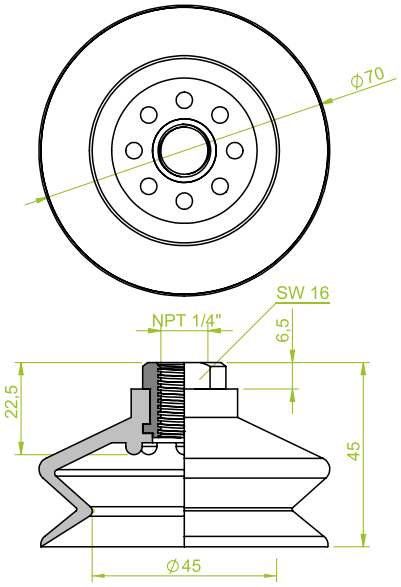
Stadtweg 30
D-78658 Zimmern o.R.

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

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

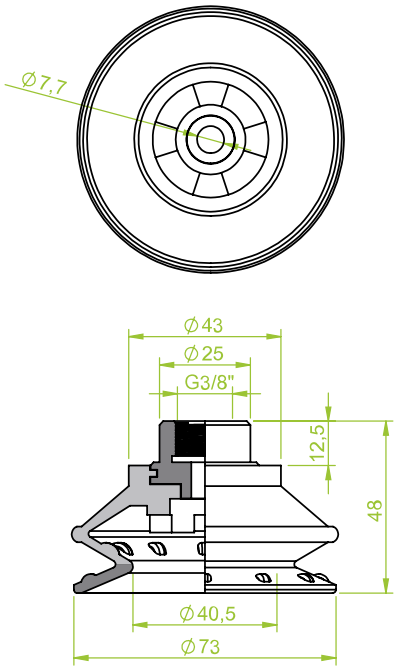
Balgensauger I *Bellow cups*

213.070.013._



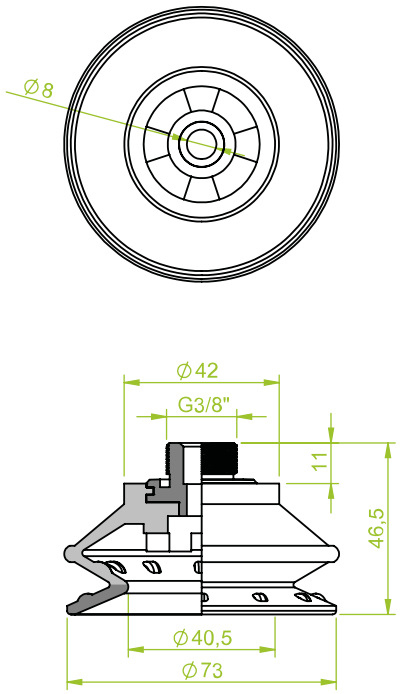
Materialcode	
V Vinyl	
Halter *Fitting*	**Gewinde** *Thread*
13mm	50g

213.070.800._



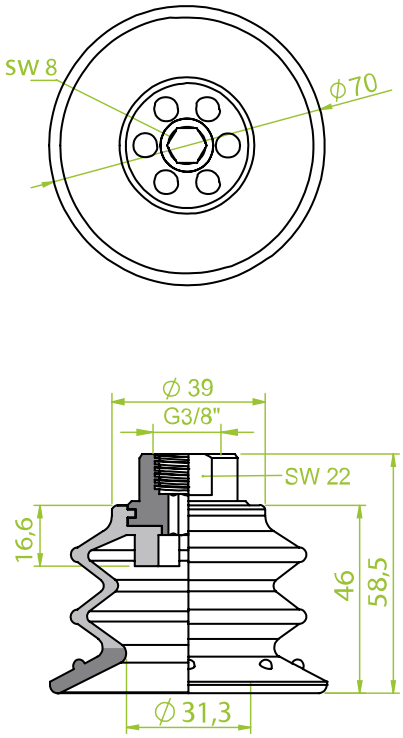
Materialcode	
05 Polyurethan 20 TPU	
Halter *Fitting*	**Gewinde** *Thread*
18mm	61.5g

214.070.800._



Materialcode	
05 Polyurethan 20 TPU	
Halter *Fitting*	**Gewinde** *Thread*
18mm	61g

223.070.800._



Materialcode	
05 Polyurethan 20 TPU	
Halter *Fitting*	**Gewinde** *Thread*
23mm	66.5g

MORALI VACTEC SYSTEMS

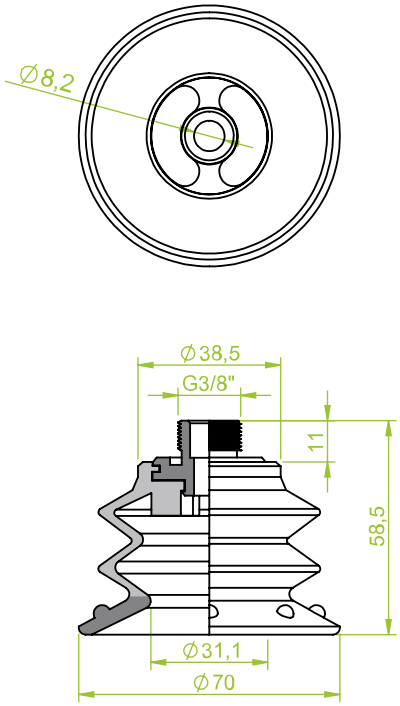
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

224.070.800._

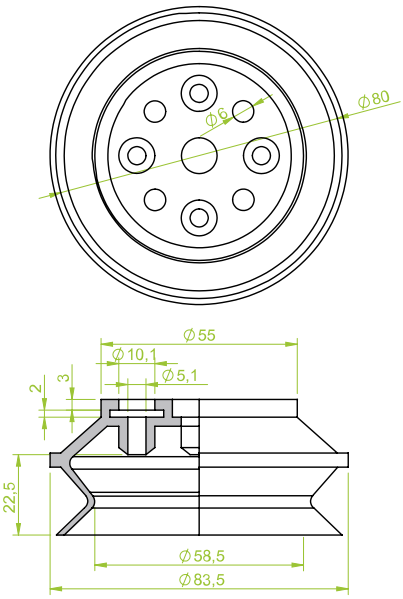


Materialcode
05 Polyurethan 20 TPU

Halter *Fitting*	Gewinde *Thread*

23mm	60.4g

210.075.033._

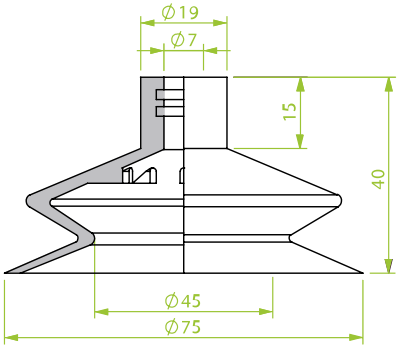


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.138	1/8" IG

22mm	45g

210.075.051._

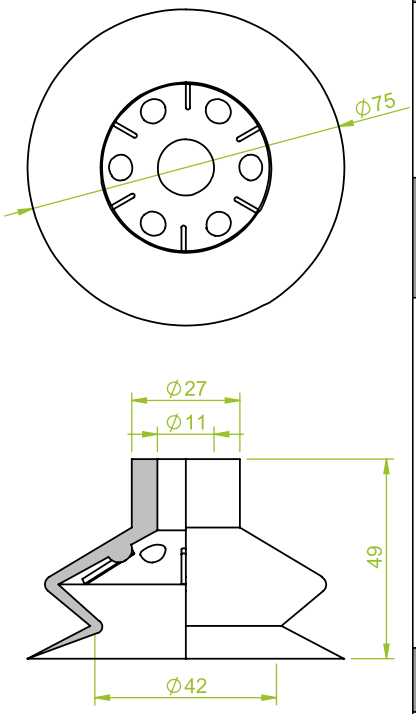


Materialcode
02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*
130.190 130.192	1/4" AG 1/4" IG

17mm	20g

210.075.128._



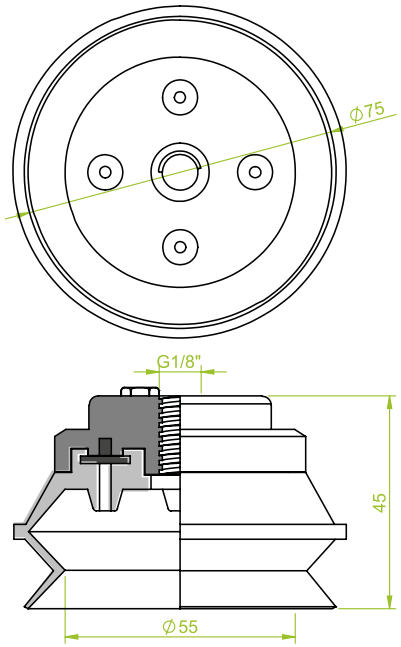
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.049 130.451 130.452	1/4" AG 1/4" AG 1/4" IG

20mm	35g

Balgensauger I *Bellow cups*

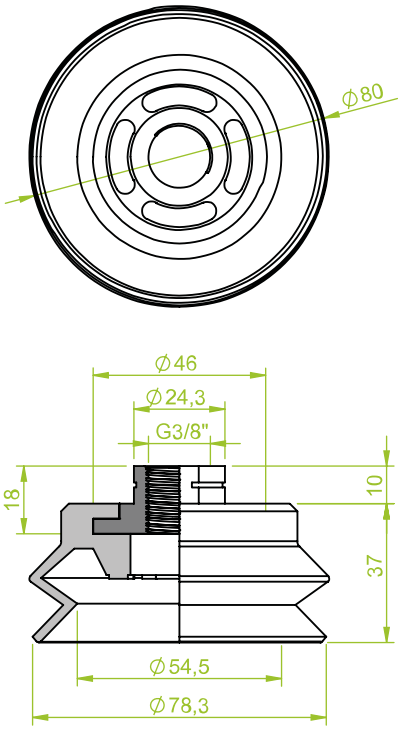
211.075.006._



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
22mm	113g

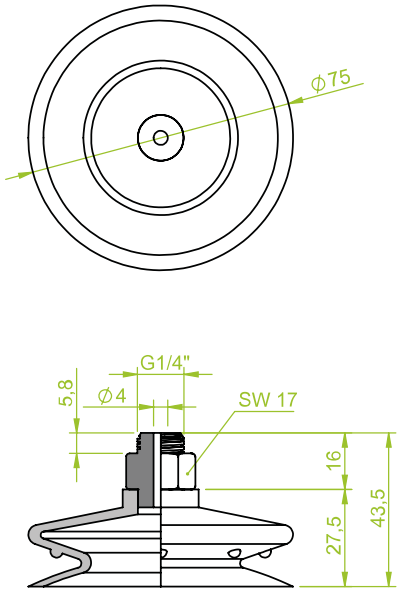
213.075.038._



Materialcode

Halter *Fitting*	Gewinde *Thread*
15mm	87g

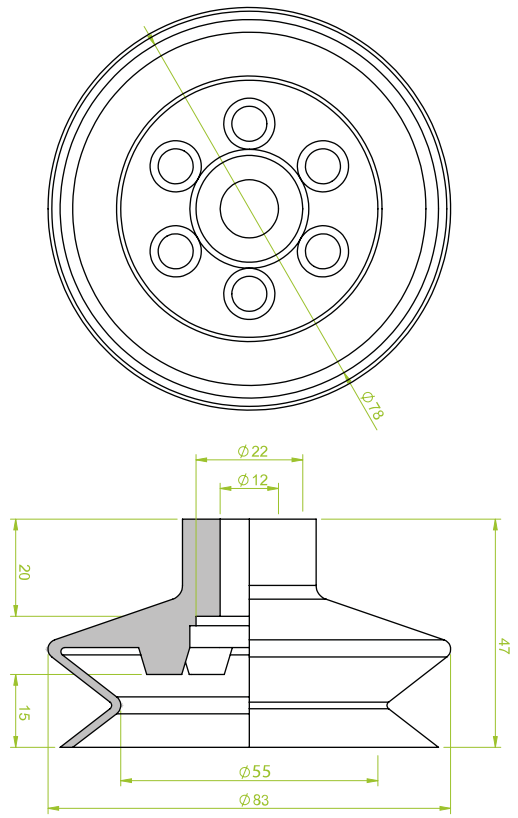
214.075.016._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
14.5mm	85g

210.078.131._

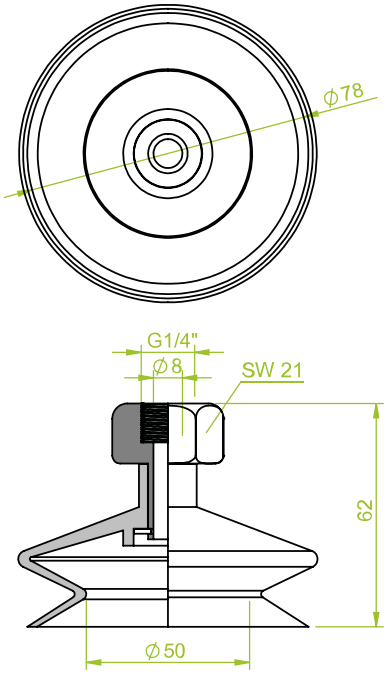


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.184 130.622 130.623	1/4" AG 1/4" AG 1/4" IG

14mm	55g

211.078.016._

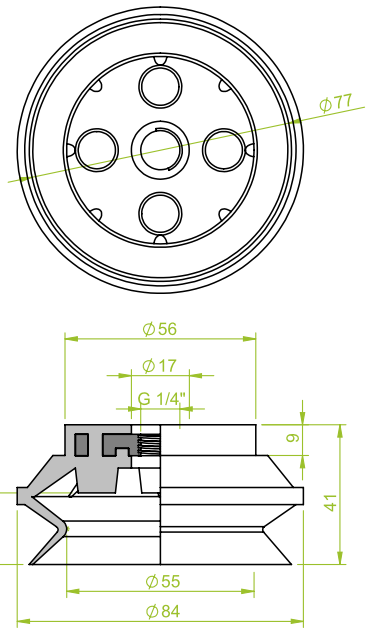


Materialcode
03 NR 02 Silikon

Halter *Fitting*	Gewinde *Thread*

15mm	130g

213.078.007._



Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

21mm	73g

Morali Produktionstechnik GmbH
Handling technology

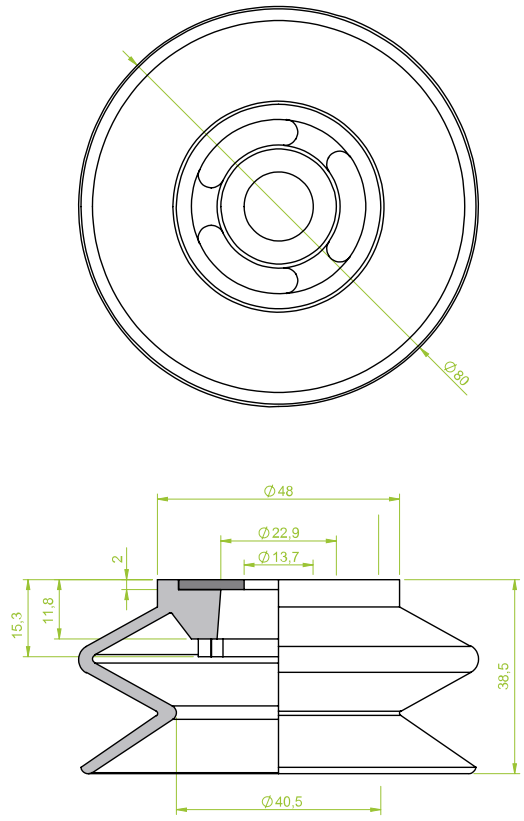
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

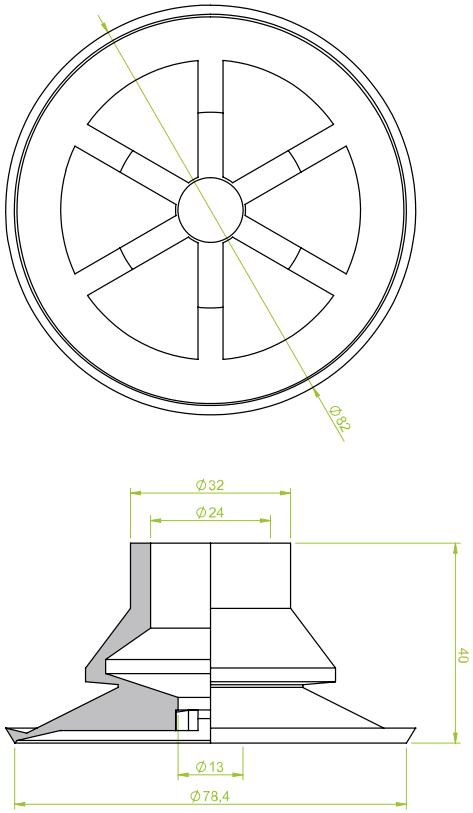
215.080.003._



Materialcode
09 HNBR 03 NR

Halter *Fitting*	Gewinde *Thread*
23mm	64g

210.082.133._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.327	1/4" AG
7mm	41g

MORALI VACTEC SYSTEMS

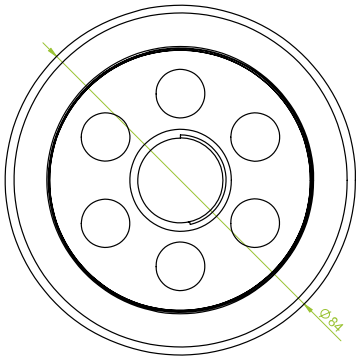
Morali Produktionstechnik GmbH
Handling technology

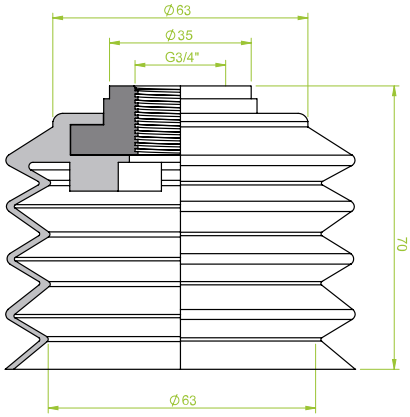
Stadtweg 30
D-78658 Zimmern o.R.

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

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

243.084.002._



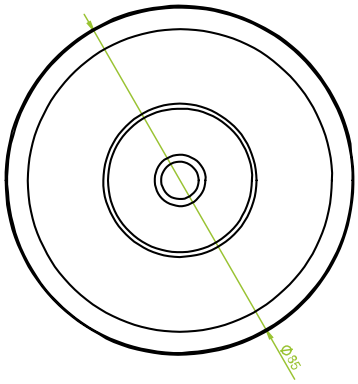


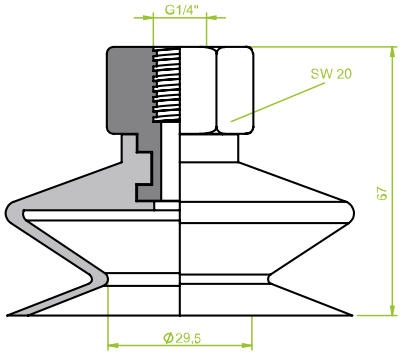
Materialcode
V Vinyl

Halter *Fitting*	Gewinde *Thread*

31mm	126g

213.085.006._



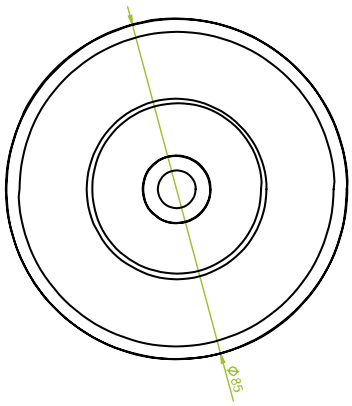


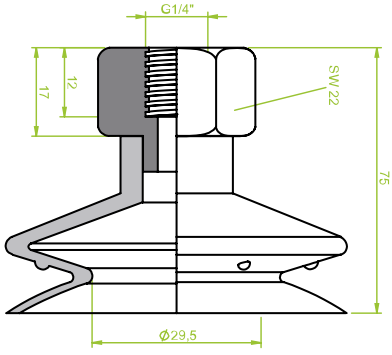
Materialcode

Halter *Fitting*	Gewinde *Thread*

17mm	120g

213.085.009._





Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

13mm	139g

Morali Produktionstechnik GmbH
Handling technology

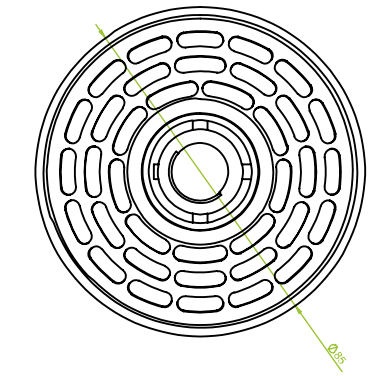
Stadtweg 30
D-78658 Zimmern o.R.

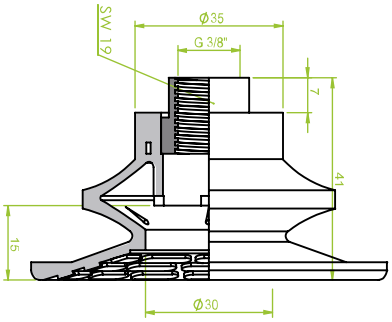
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Balgensauger I *Bellow cups*

213.085.016._





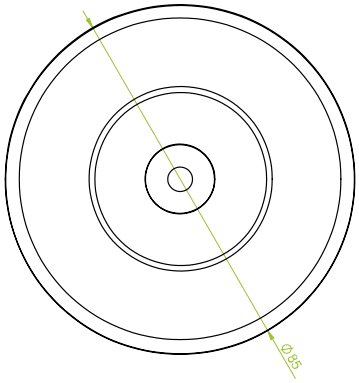
Materialcode
V Vinyl

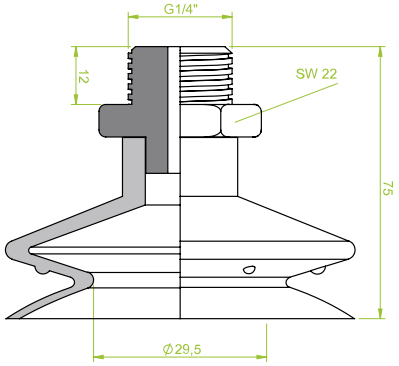
Halter *Fitting*	Gewinde *Thread*

7mm	48g

214.085.002._

vulkanisiert





Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

13mm	174g

MORALI VACTEC SYSTEMS

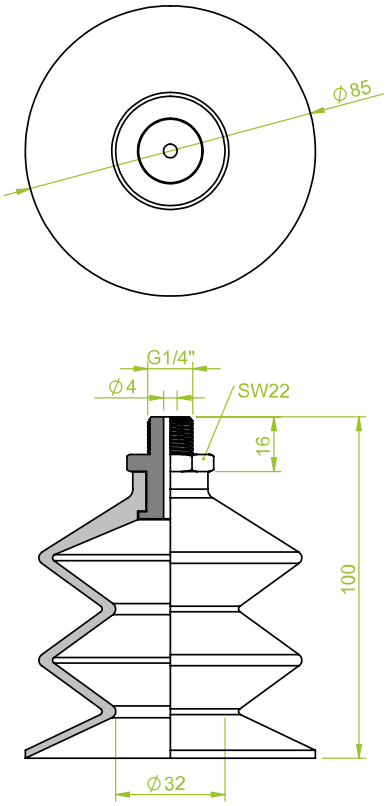
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

222.085.010._

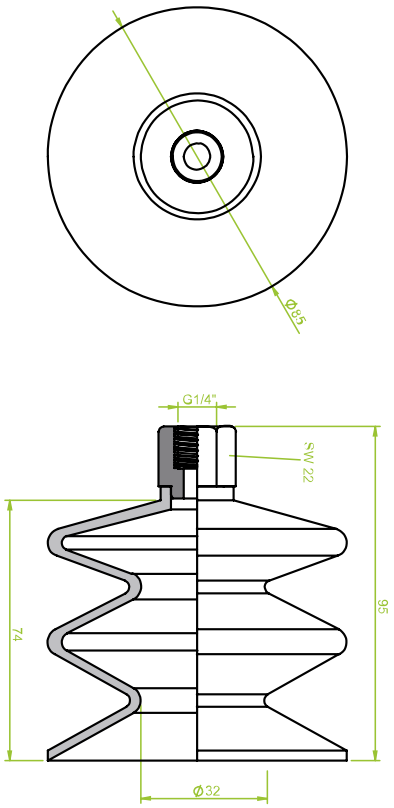


Materialcode	

Halter *Fitting*	Gewinde *Thread*

30mm	170g

223.085.007._ vulkanisiert

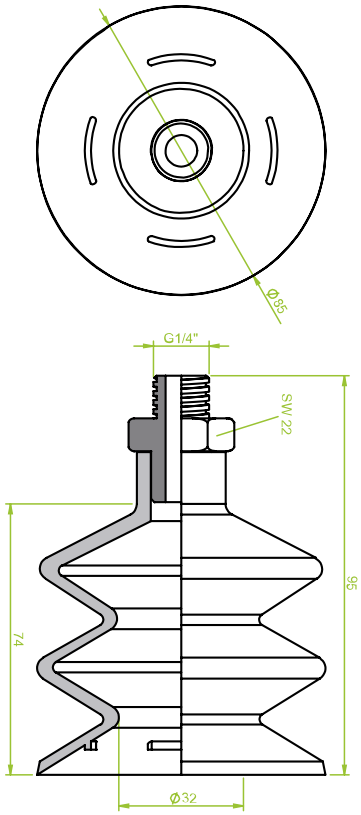


Materialcode
03 NR 02 Silikon 12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

33mm	190g

224.085.001._ vulkanisiert

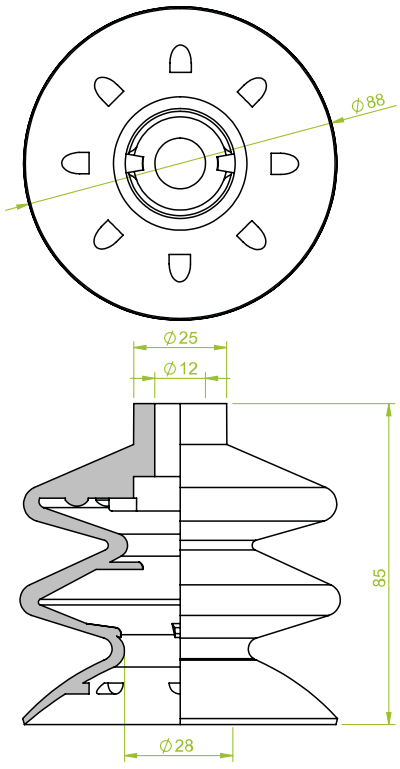


Materialcode
12 verstärktes Silikon

Halter *Fitting*	Gewinde *Thread*

38mm	209g

220.088.036._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.184	1/4" AG

35mm	170g

Morali Produktionstechnik GmbH
Handling technology

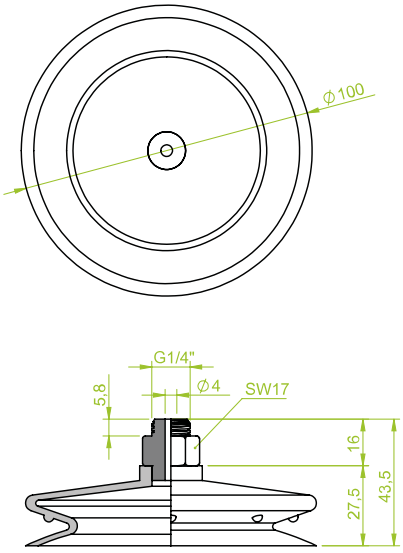
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Balgensauger I *Bellow cups*

214.100.017._

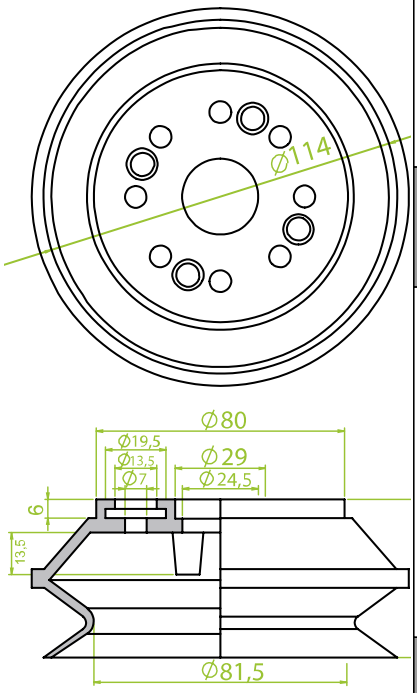


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

14.5mm	155g

210.110.034._

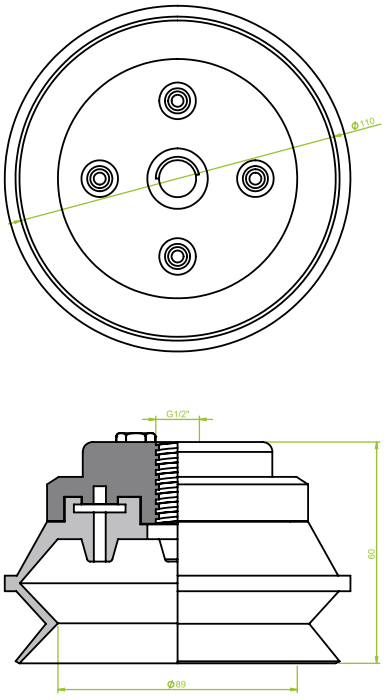


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.139	1/2" IG

35mm	110g

211.110.007._

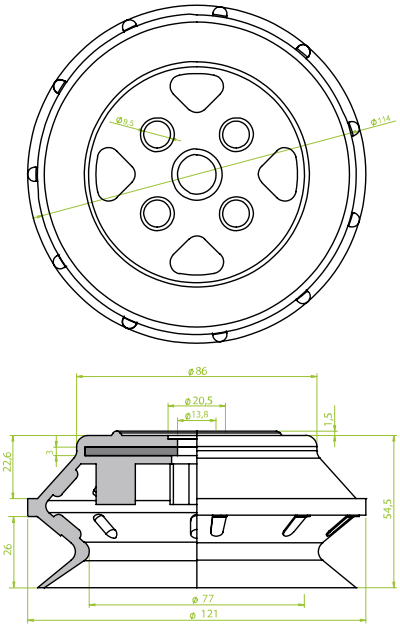


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

35mm	260g

210.115.047._



Materialcode
09 HNBR 05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.056	1/2" IG

29mm	267.9g

MORALI VACTEC SYSTEMS

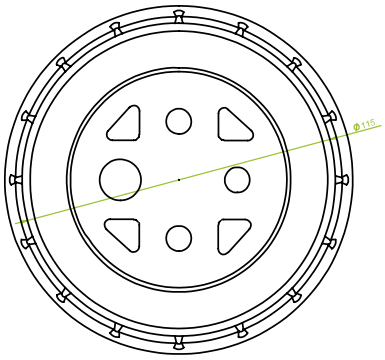
Morali Produktionstechnik GmbH
Handling technology

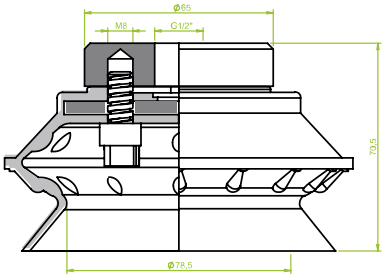
Stadtweg 30
D-78658 Zimmern o.R.

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

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

211.115.017._





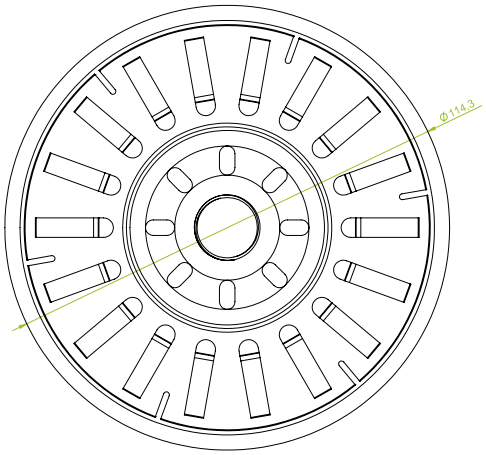
Materialcode
09 HNBR 05 Polyurethan 02 Silikon

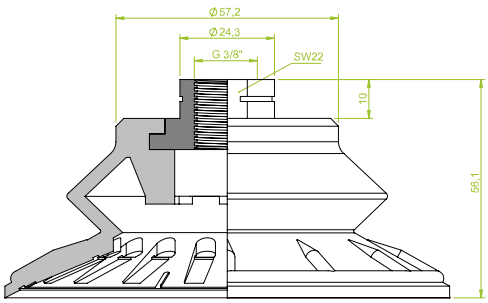
Halter *Fitting*	Gewinde *Thread*

29mm	695g

213.115.033._

vulkanisiert





Materialcode

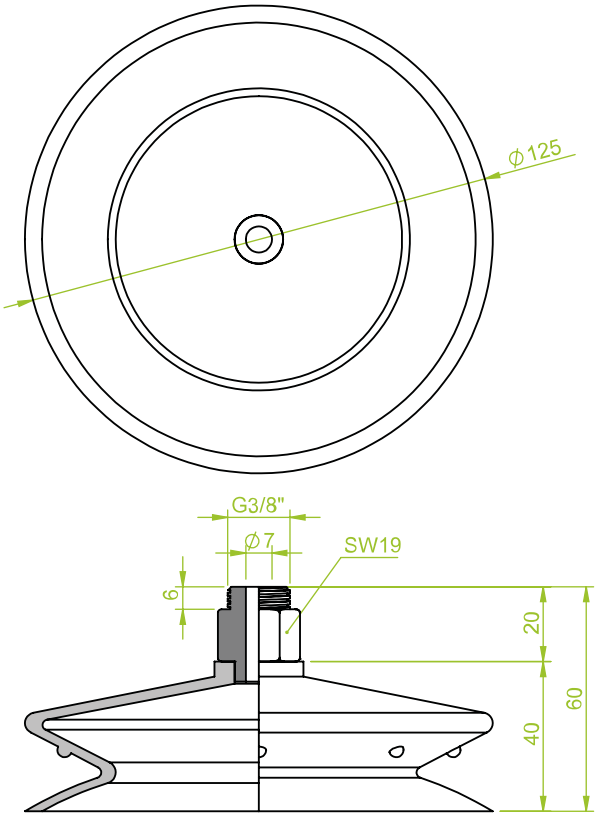
Halter *Fitting*	Gewinde *Thread*

40mm	115.1g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Balgensauger I *Bellow cups*

214.125.018._

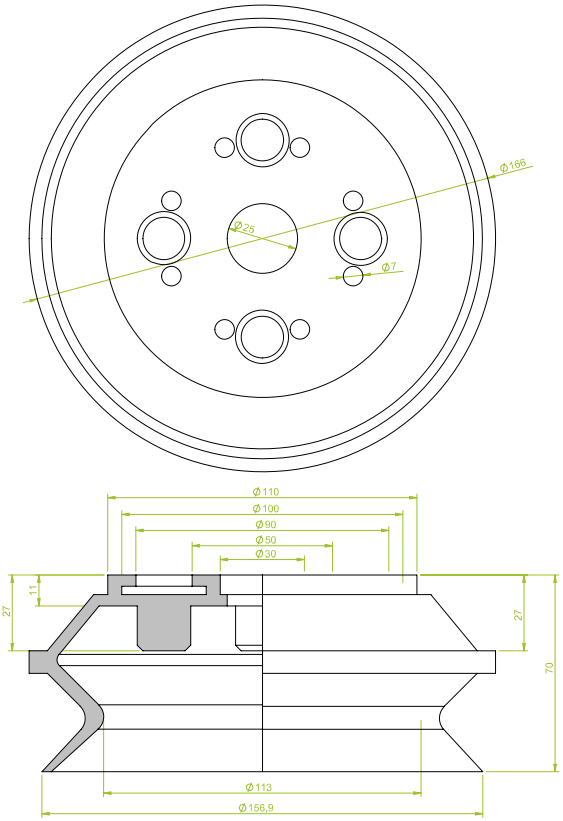


Materialcode
05 Polyurethan 02 Silikon

Halter *Fitting*	Gewinde *Thread*

26mm	0g

210.150.035._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.140	1/2" IG

40mm	293g

MORALI VACTEC SYSTEMS

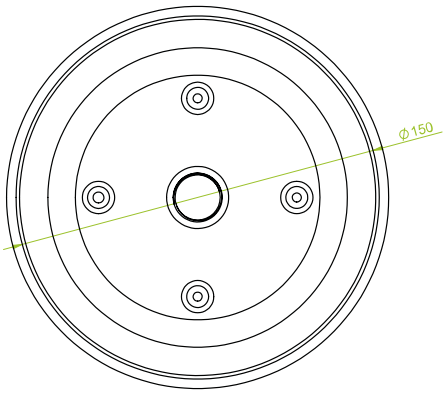
Morali Produktionstechnik GmbH
Handling technology

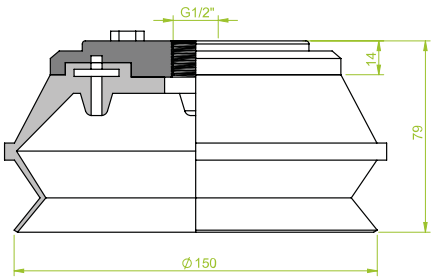
Stadtweg 30
D-78658 Zimmern o.R.

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

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

211.150.008._



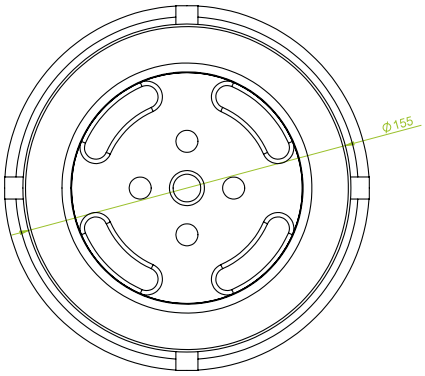


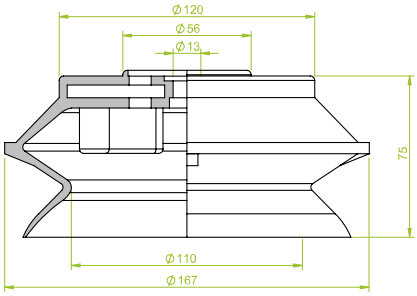
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

40mm	580g

210.155.048._





Materialcode
02 Silikon

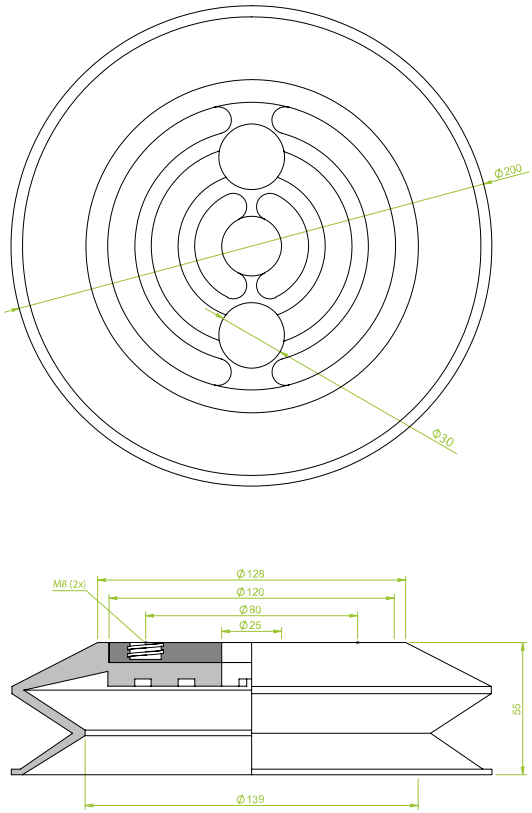
Halter *Fitting*	Gewinde *Thread*
130.056	1/2" IG

38mm	495g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

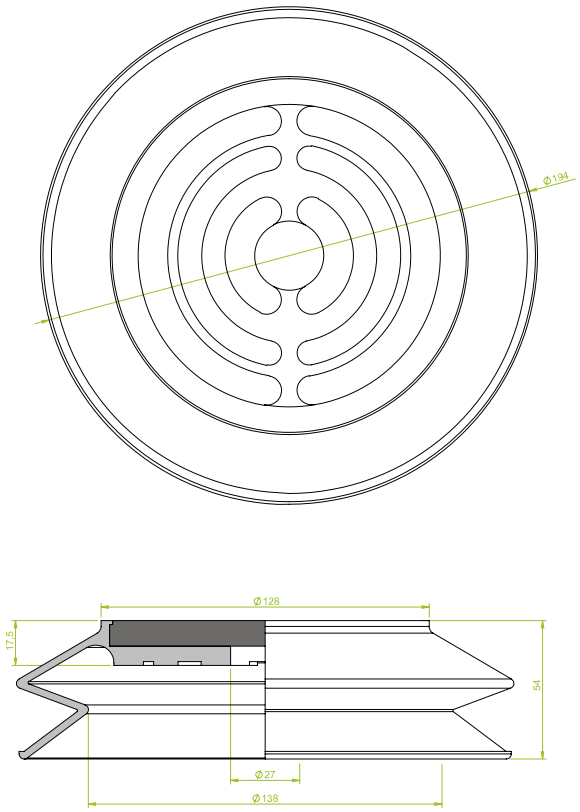
Balgensauger I *Bellow cups*

213.200.022._



Materialcode	
03 NR	
Halter *Fitting*	**Gewinde** *Thread*
38mm	520g

215.200.007._



Materialcode	
03 NR	
Halter *Fitting*	**Gewinde** *Thread*
30mm	586.4g

MORALI VACTEC SYSTEMS

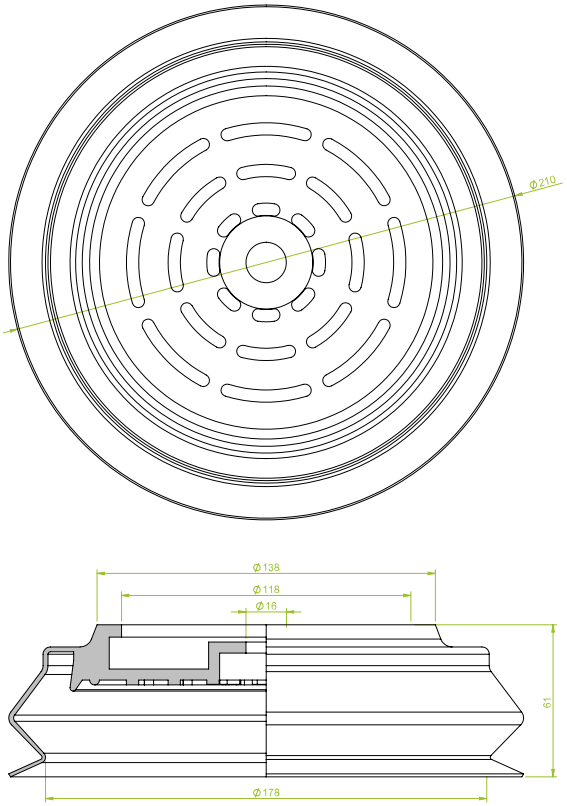
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

210.210.135._

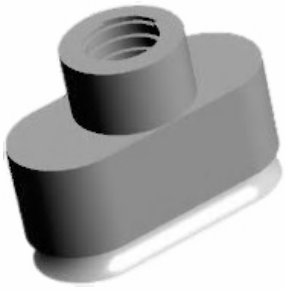


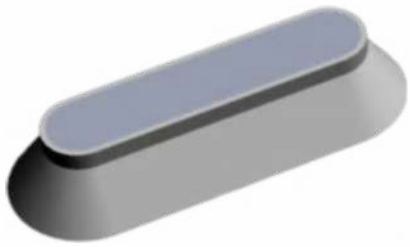
Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*
mm	0g

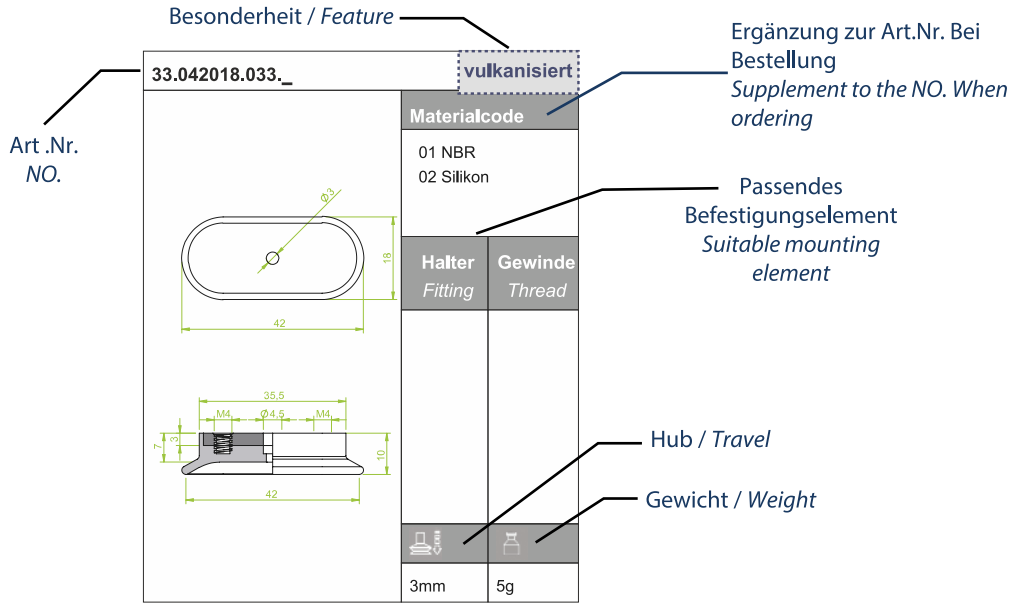
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

Aufbau & Ausführungen | *Structure & Versions*

Ohne Anschlussteil *Without fitting* **30.**	Inkl. Anschluss, gesteckt, Innengewinde *Incl. plugged fitting, female thread* **31.**	Inkl. Anschluss, gesteckt, Aussengewinde *Incl. plugged fitting,male thread* **32.**
		
30.015005.017._	31.020012.002._	32.01005.007._

Inkl. Anschluss, vulkanisiert, Innengewinde *Incl. vulcanized fitting, female thread* **33.**	Inkl. Anschluss, vulkanisiert, Aussengewinde *Incl. vulcanized fitting, male thread* **34.**	Vulkanisiert, ohne Gewinde/Bohrung *Vulcanized, without thread/hole* **35.**
		
33.116027.024._	34.067028.0829._	35.11040.016._

Example: Oval-Rechteck Flachsauger ohne Anschlussteil 42 x 18 mm, verfügbar in den Materialien NBR und Silikon.
Oval rectangular flat cups without fitting 42 x 18 mm, *available in the materials NBR and silicone.*

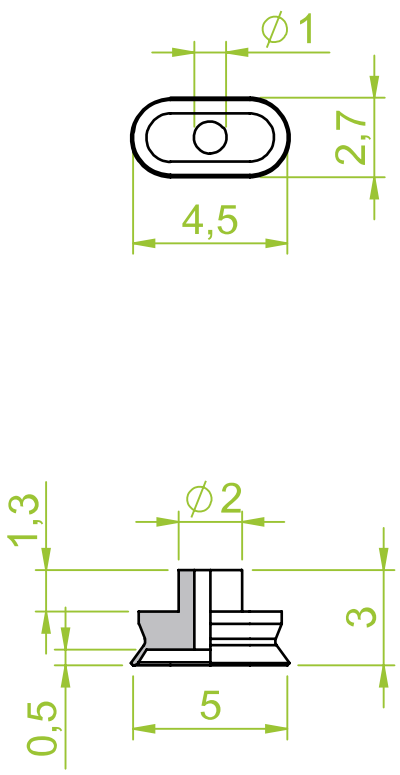


Eigenschaften der Saugermaterialien auf Seite 24 | *Properties of vacuum cup materials at page* 24

MORALI VACTEC SYSTEMS
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.004002.002._

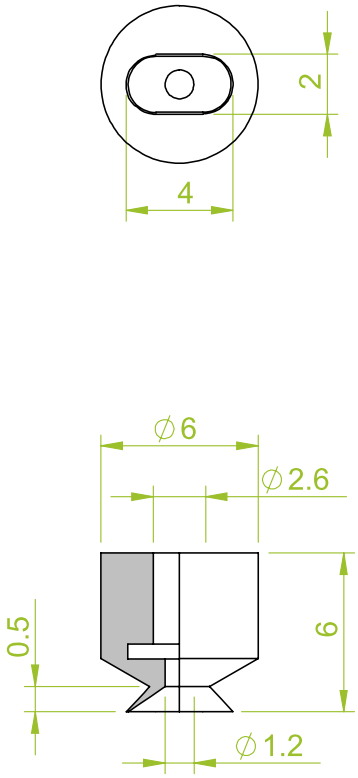


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.011	M3 AG

0.5mm	0.03g

30.004002.003._

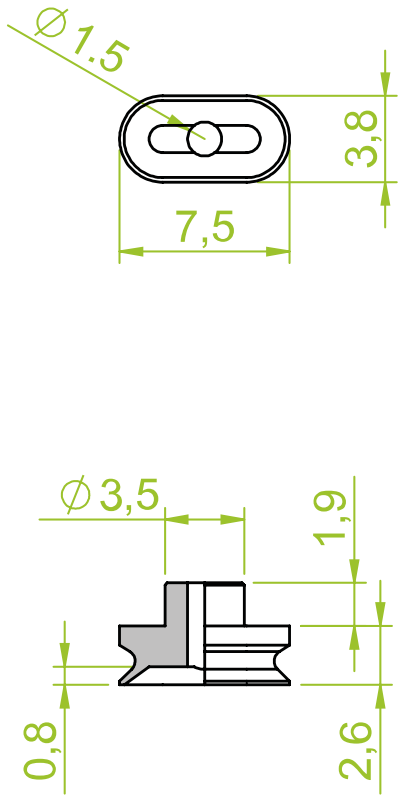


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.300	M5 AG

0.5mm	0.05g

30.007004.004._



Materialcode
02 Silikon

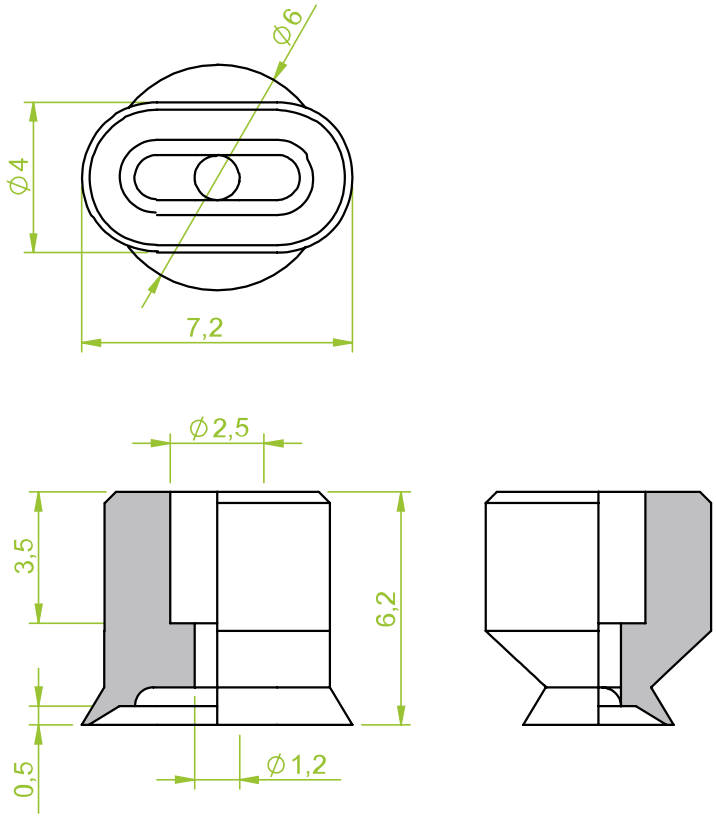
Halter *Fitting*	Gewinde *Thread*
130.014	M3 AG
130.025	M3 AG
130.030	1/8" AG
130.111	M4 AG

0.8mm	0.1g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.007004.005._

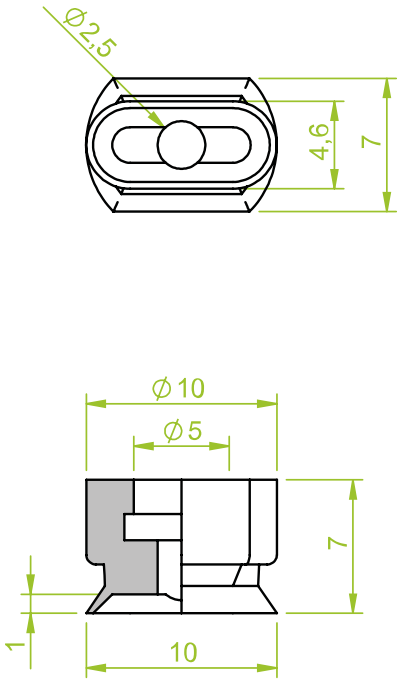


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.014	M3 AG
130.025	M3 AG
130.111	M4 AG
130.300	M5 AG

0.8mm	0.1g

30.010004.006._

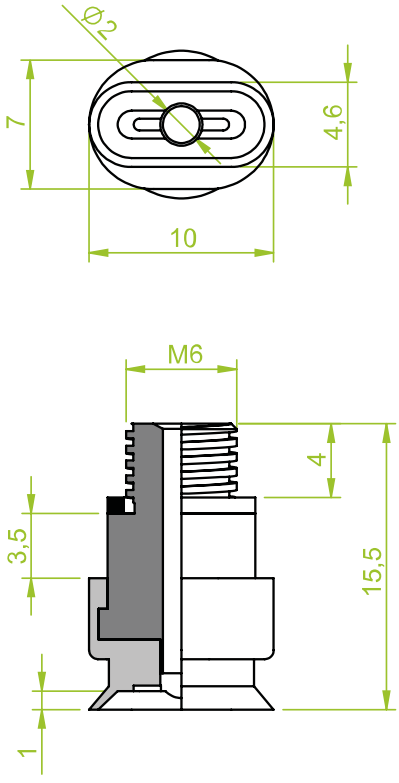


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.339	M6 AG

1mm	0.3g

32.010004.006._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	1.8g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

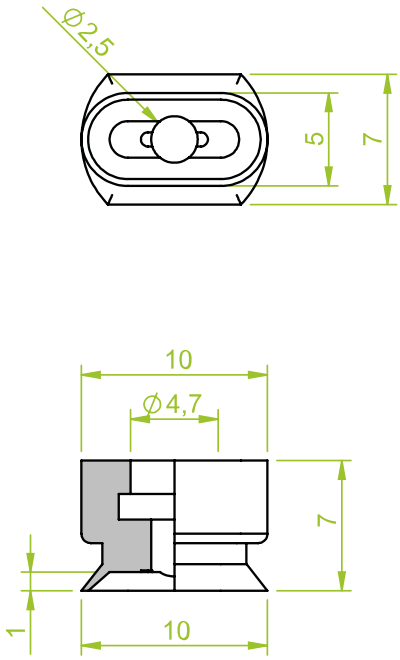
Stadtweg 30
D-78658 Zimmern o.R.

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

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

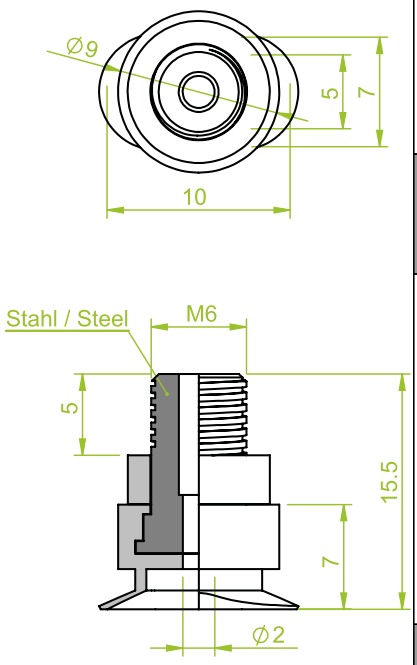
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.010005.007._



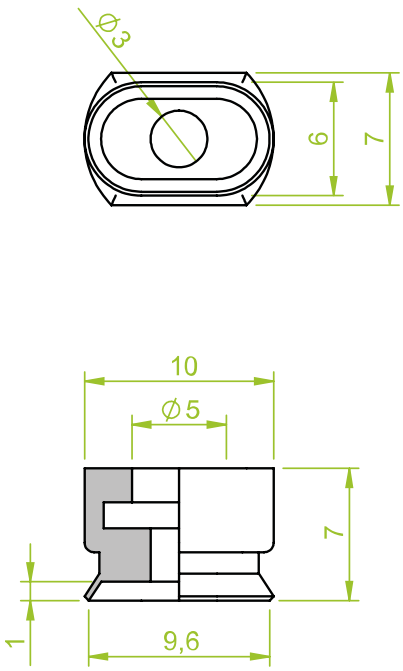
Materialcode		
02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
1mm	0.3g	

32.010005.007._



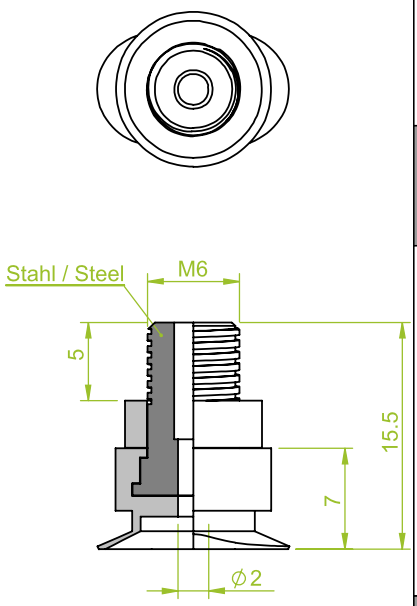
Materialcode		
02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
1mm	1.8g	

30.010006.008._



Materialcode		
02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
1mm	0.3g	

32.010006.008._



Materialcode		
02 Silikon		
Halter *Fitting*	Gewinde *Thread*	
1mm	1.9g	

Morali Produktionstechnik GmbH
Handling technology

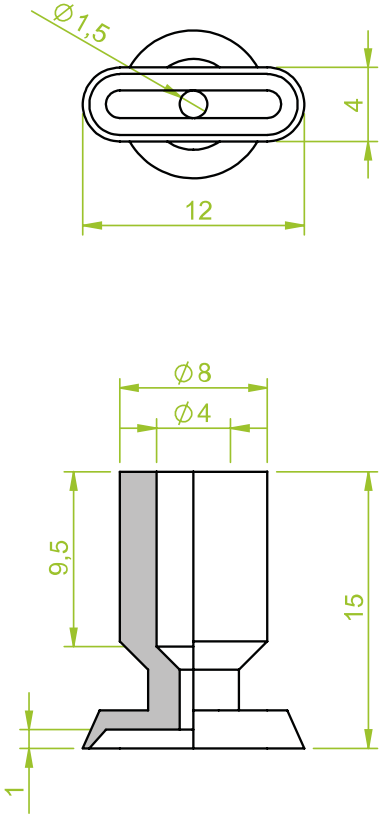
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.012004.029._

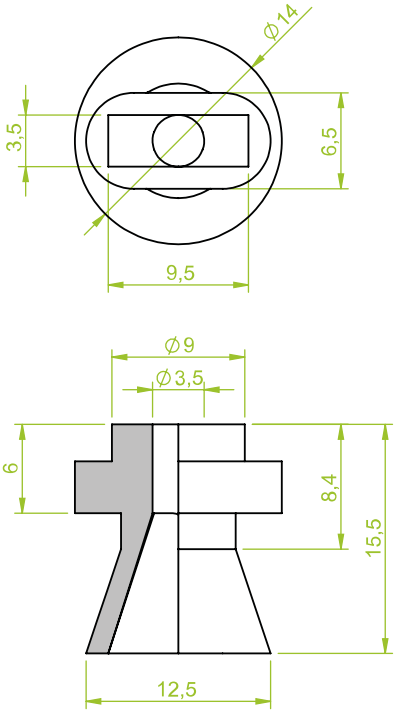


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.024	M5 AG
130.104	M6 AG
130.134	M5 AG

0.5mm	0.6g

30.013007.030._

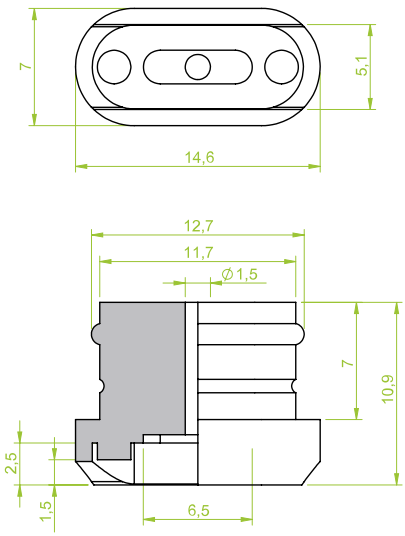


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0mm	0.5g

30.014007.074._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	0.6g

MORALI VACTEC SYSTEMS

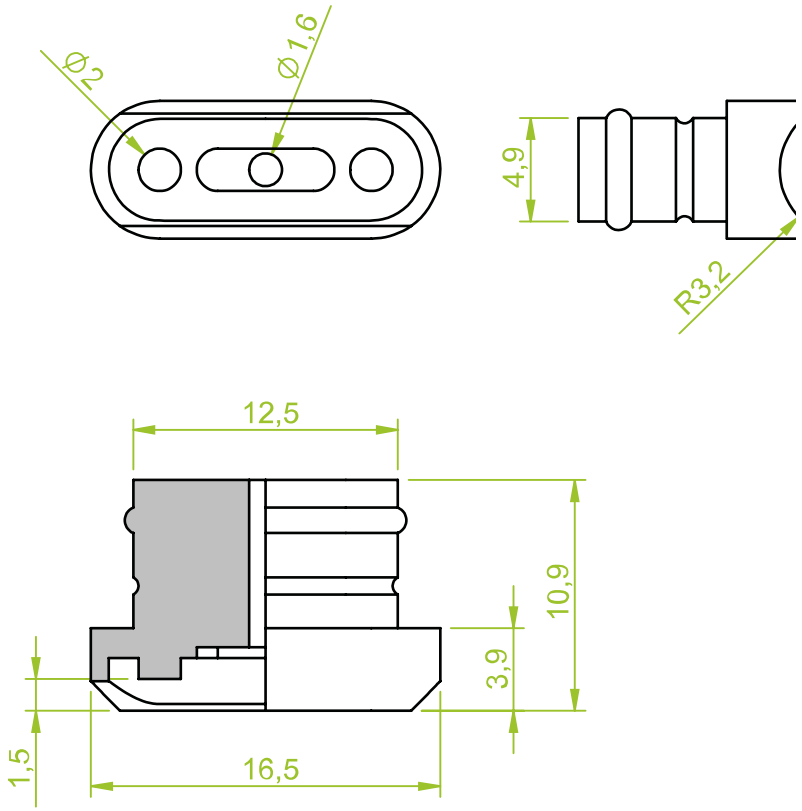
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

30.014007.076._

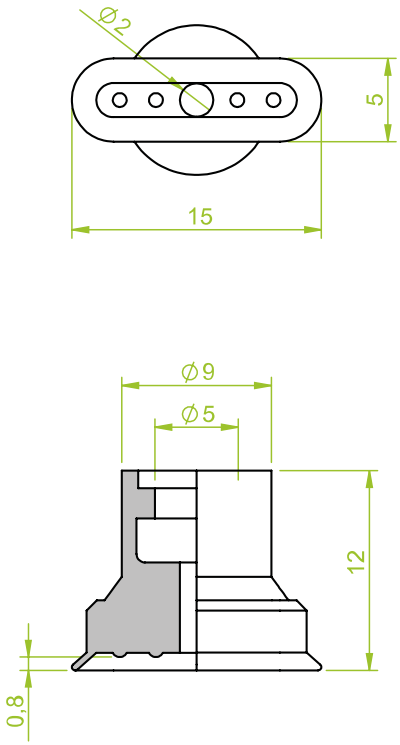


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	0.6g

30.015005.017._

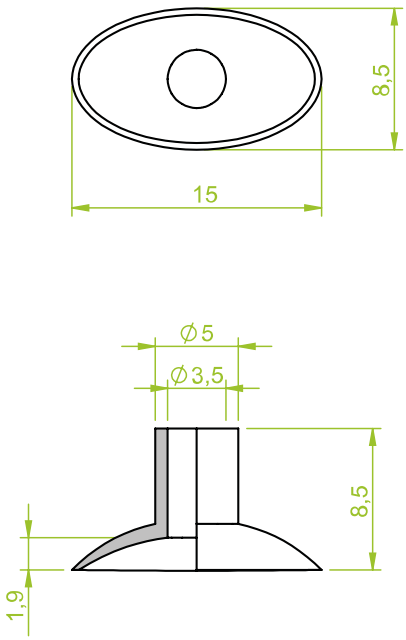


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG
130.103	M6 AG

1mm	0.5g

30.015008.031._



Materialcode
02 Silikon

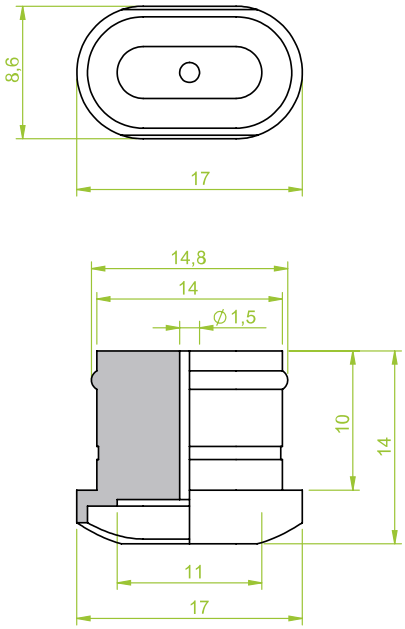
Halter *Fitting*	Gewinde *Thread*

2mm	0.2g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.017009.073._

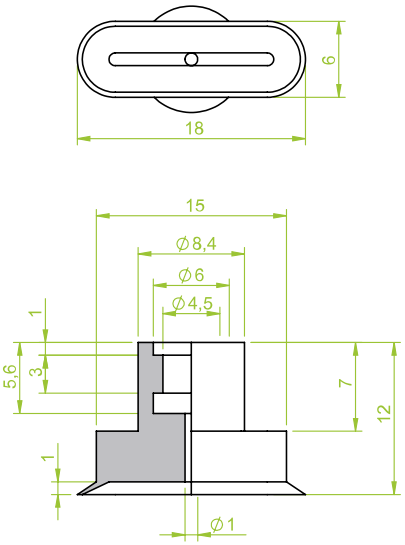


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

3mm	1.3g

30.018006.018._

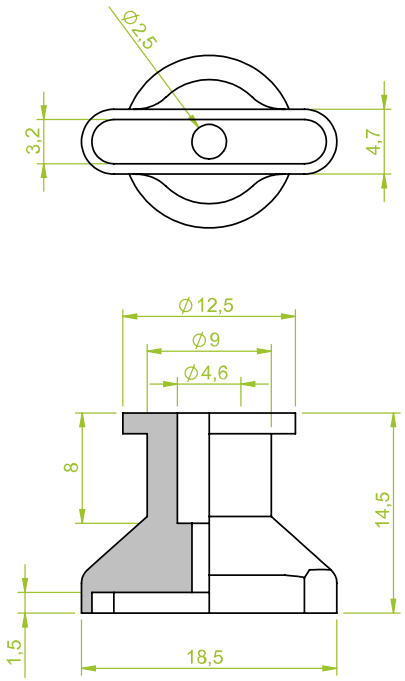


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.013	M5 AG
130.095	1/8" AG
130.096	1/8" IG
130.103	M6 AG

1mm	0.5g

30.019005.032._

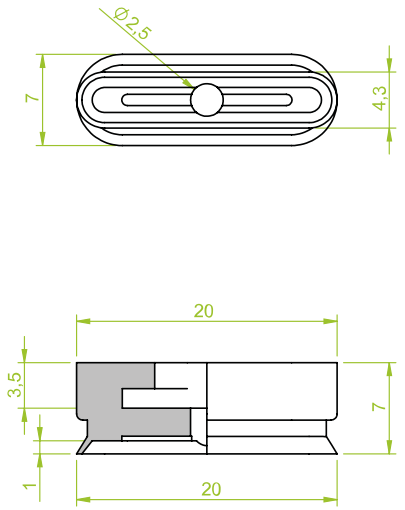


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0mm	1g

30.020004.009._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG

1mm	0.6g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

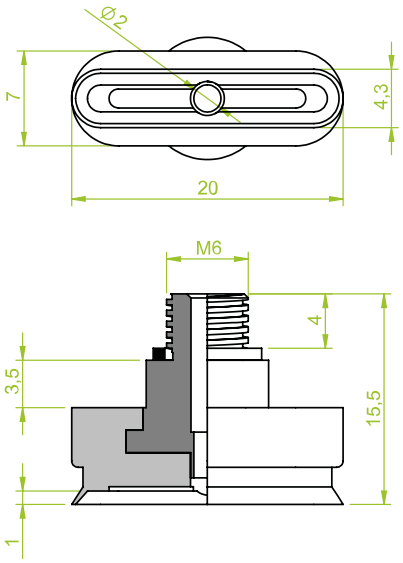
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

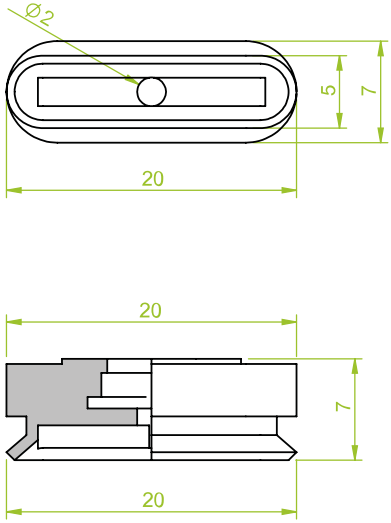
32.020004.009._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	2.3g

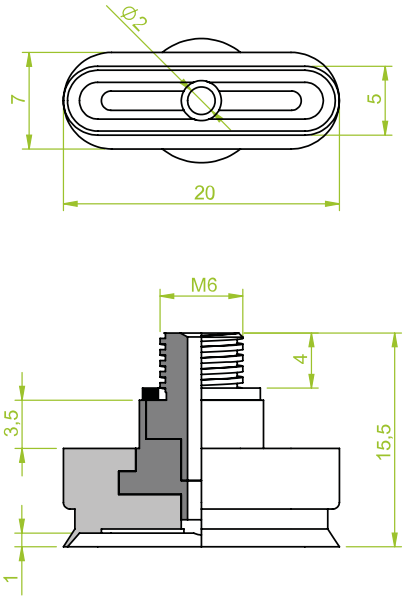
30.020005.010._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG
1mm	0.6g

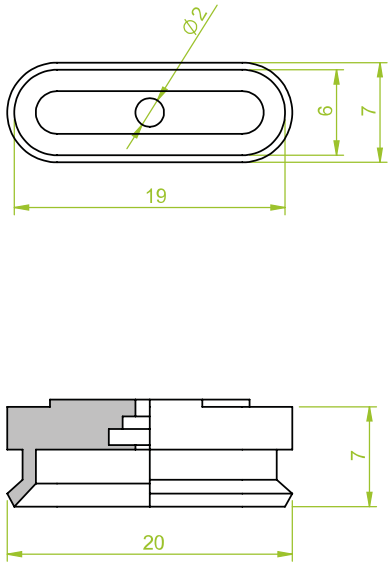
32.020005.010._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	2.4g

30.020006.011._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG
1mm	0.6g

Morali Produktionstechnik GmbH
Handling technology

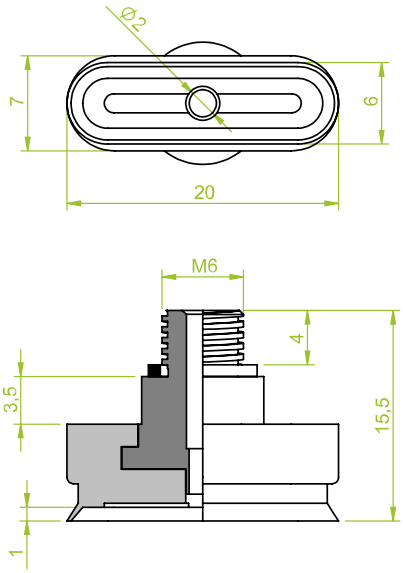
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

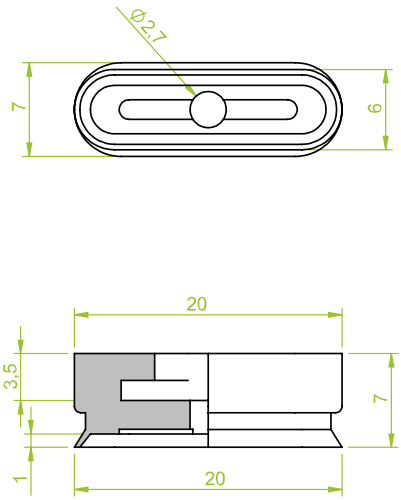
32.020006.011._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	2.4g

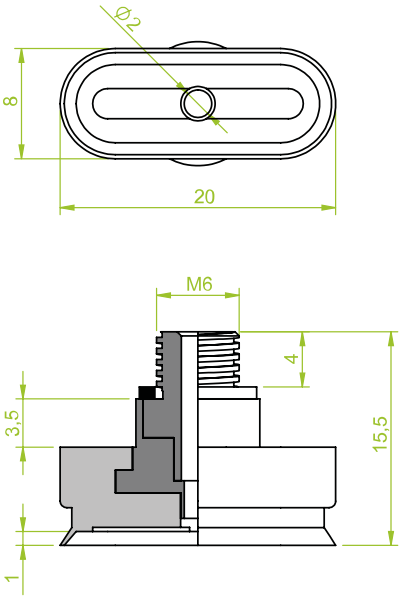
30.020008.012._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG
1mm	0.6g

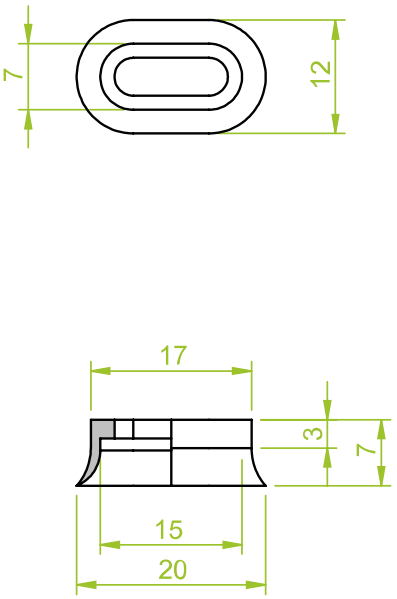
32.020008.012._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	2.4g

30.020012.033._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	1g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

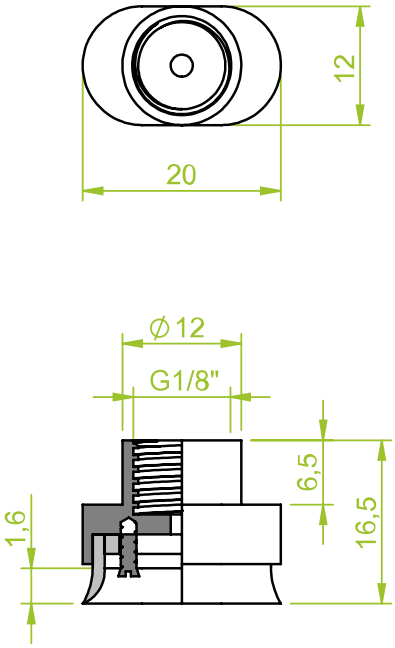
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

31.020012.002._

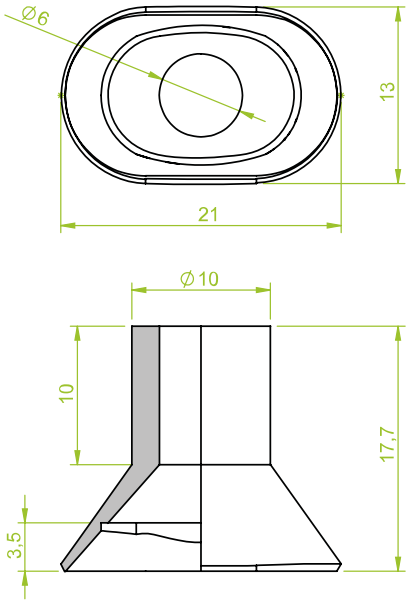


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	5.2g

30.021013.072._



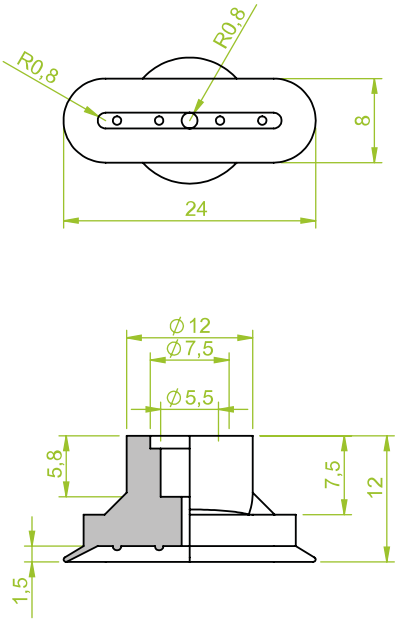
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.109 130.238 130.317	1/8" IG 1/8" AG M5 AG

0.3mm	0.9g

30.024008.019._

Mit Ohrklemme

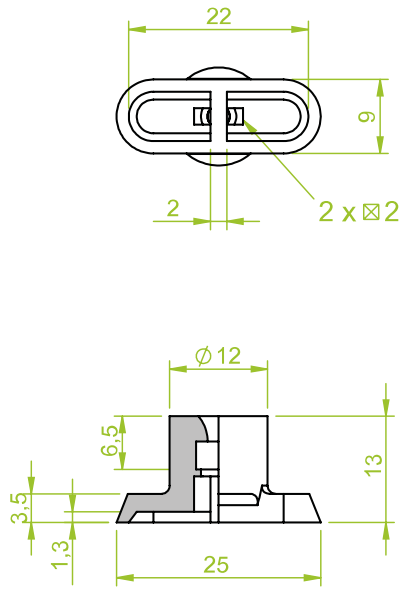


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005 130.094 130.095 130.103	M5 IG M5 AG 1/8" AG M6 AG

1mm	1g

30.025009.040._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0mm	1g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

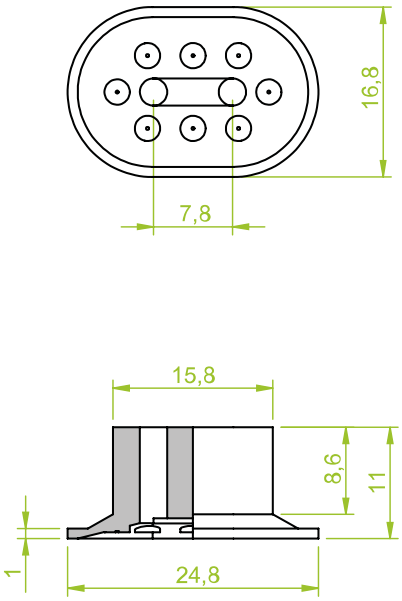
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

MORALI VACTEC SYSTEMS

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.025017.077._

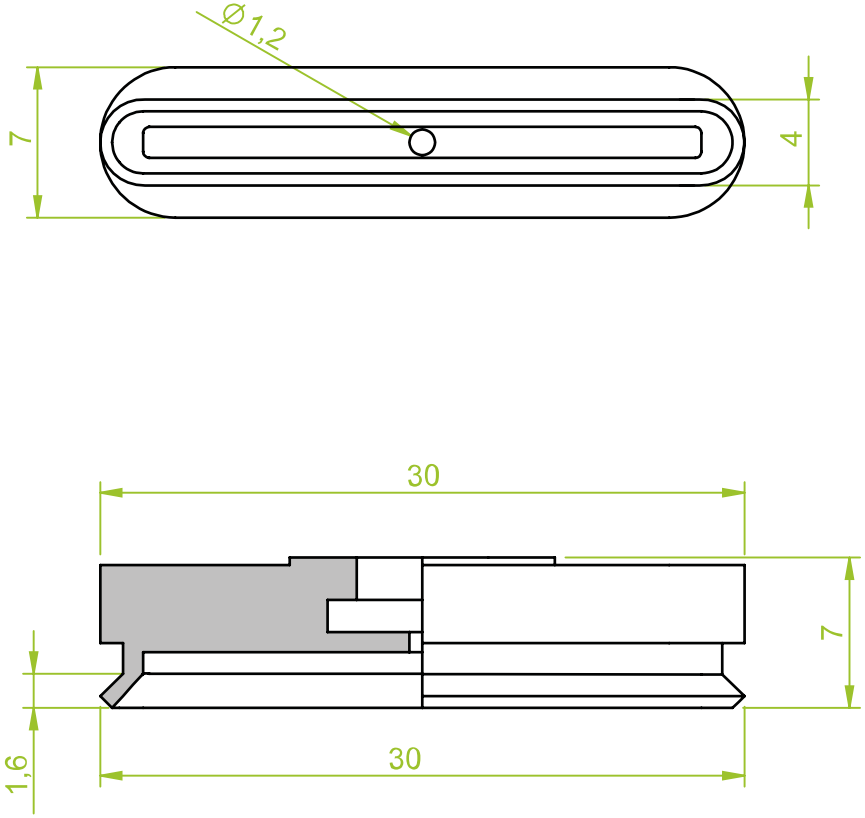


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0.7mm	1g

30.030004.013._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG

1mm	1g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

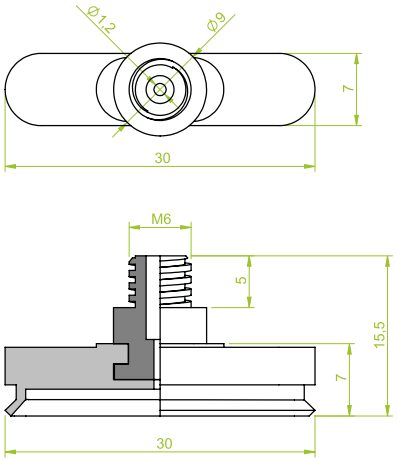
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

32.030004.013._

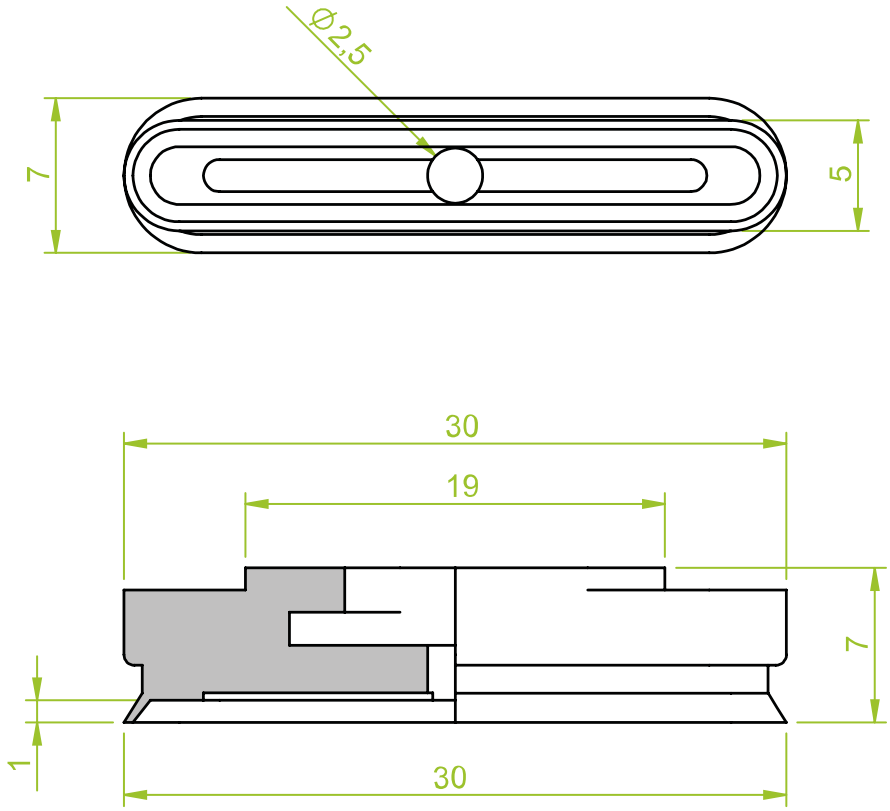


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	2.7g

30.030005.014._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG

1mm	1g

Morali Produktionstechnik GmbH
Handling technology

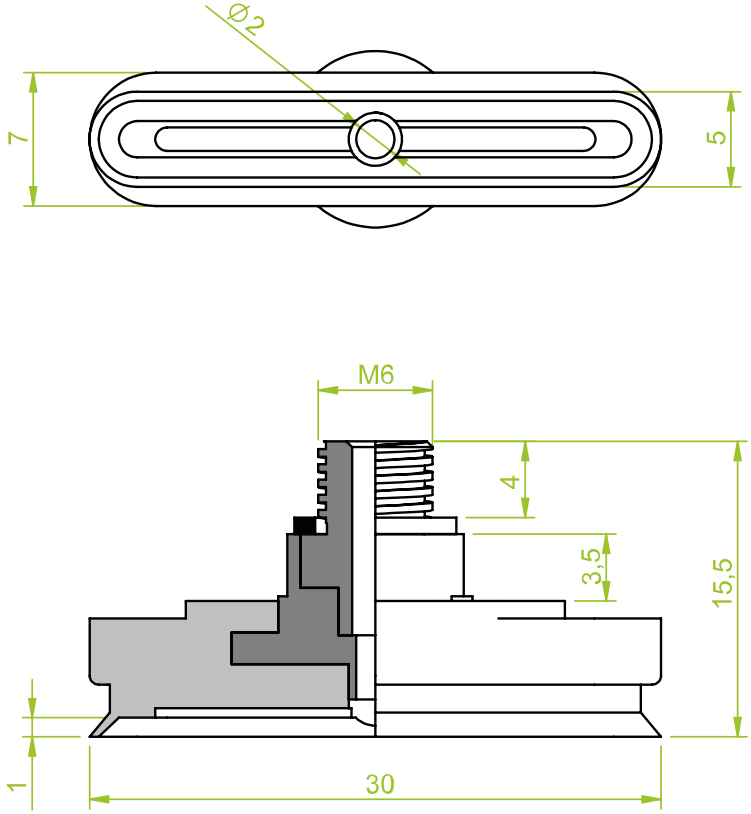
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

32.030005.014._

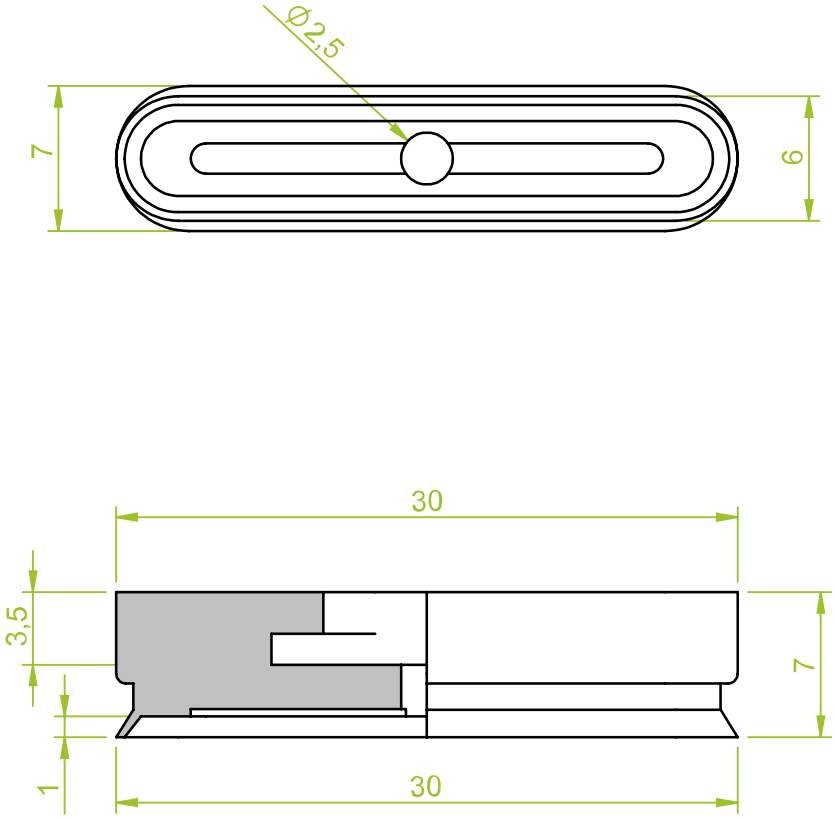


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	2.7g

30.030006.015._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG

1mm	1g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

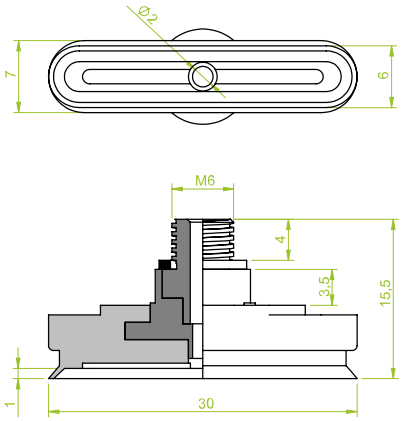
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

32.030006.015._

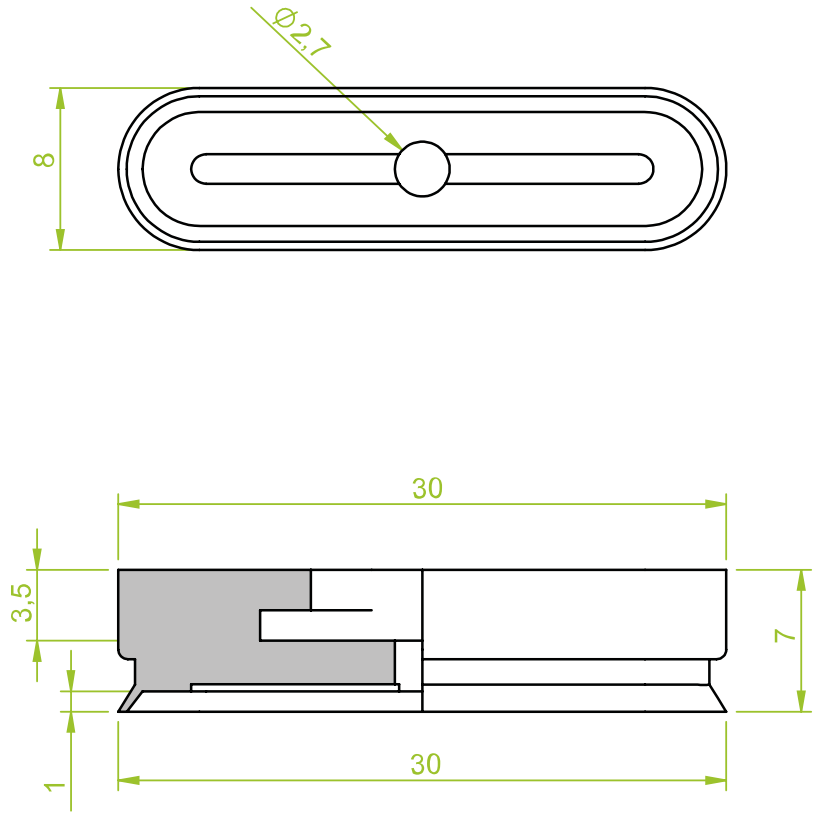


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	2.7g

30.030008.016._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.340	M6 AG

1mm	1g

Morali Produktionstechnik GmbH
Handling technology

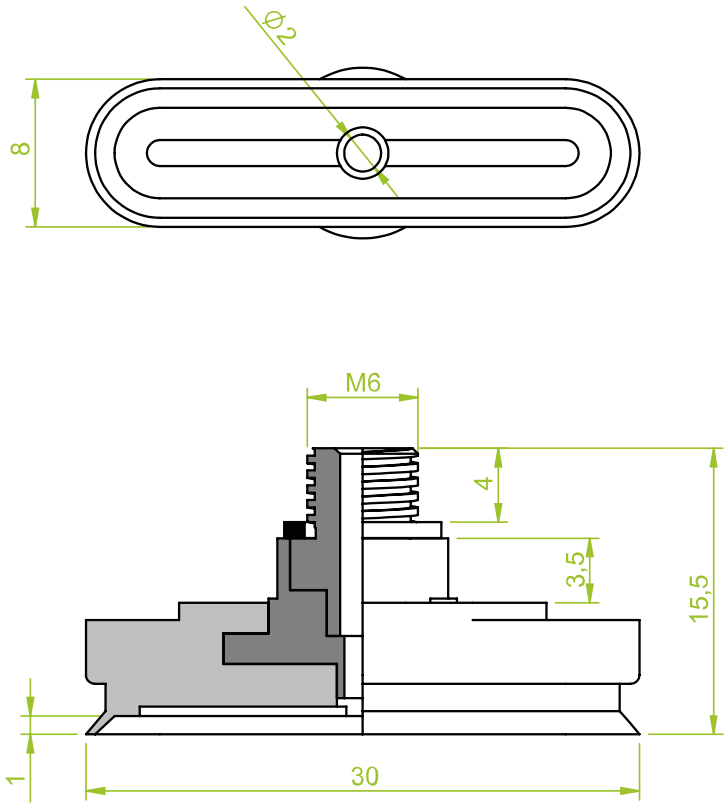
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

32.030008.016._

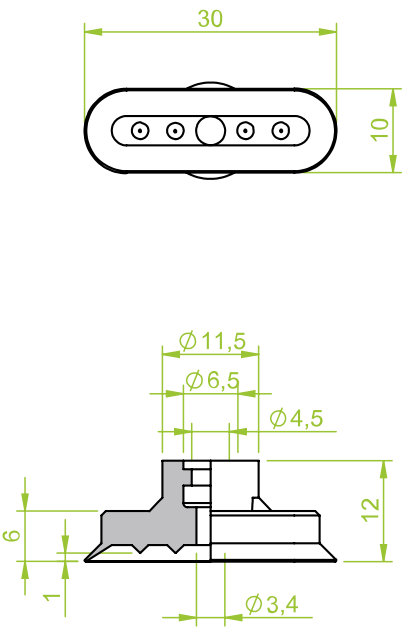


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	2.7g

30.030010.020._ Mit Ohrklemme

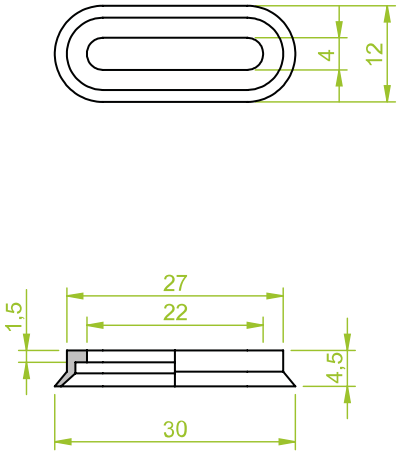


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG
130.103	M6 AG

2mm	1.4g

30.030012.042._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	0.4g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

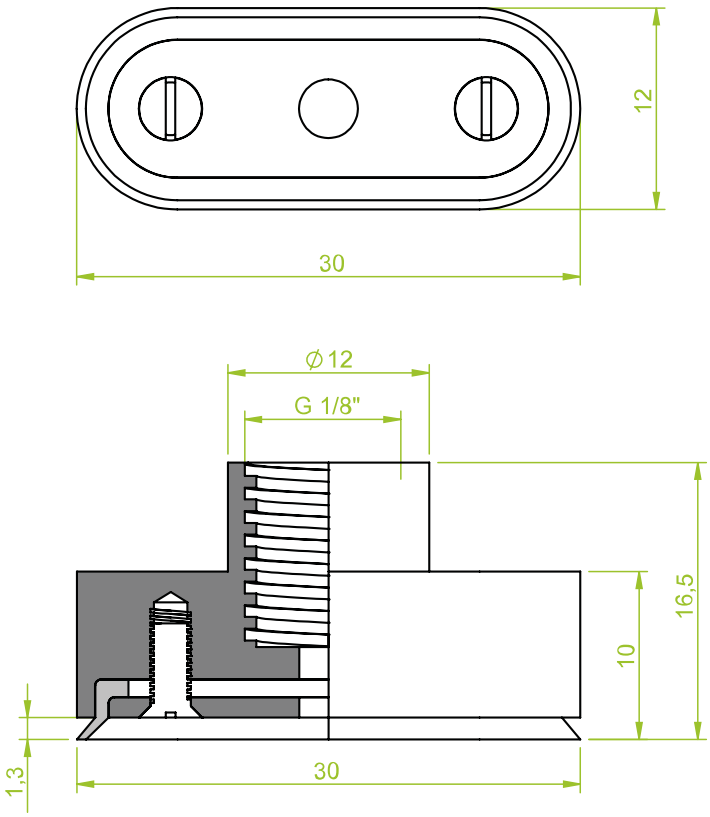
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

31.030012.003._

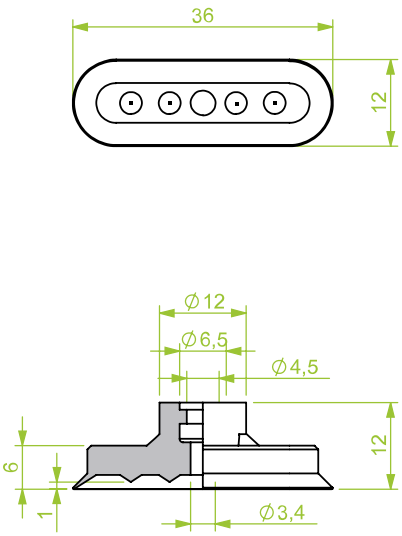


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	8.3g

30.036012.021._

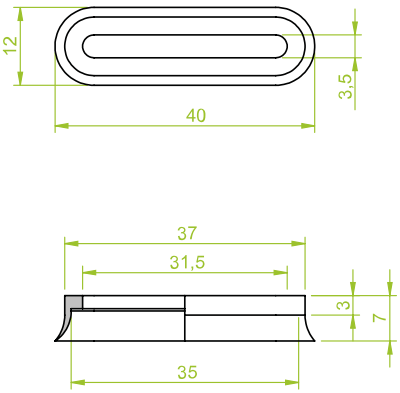


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG
130.103	M6 AG

2mm	1.8g

30.040012.043._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	0.5g

Morali Produktionstechnik GmbH
Handling technology

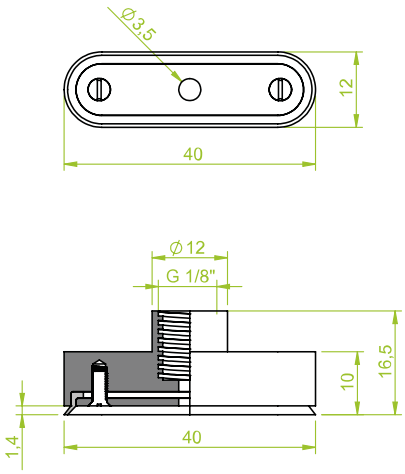
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

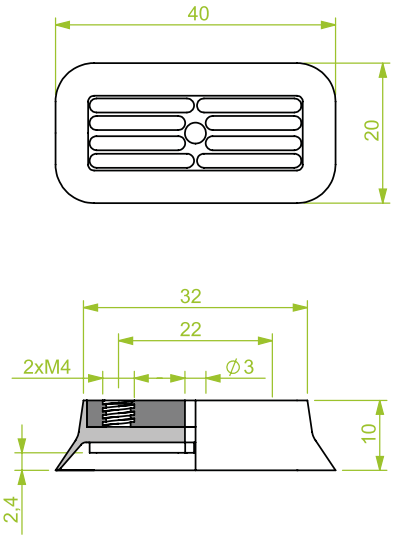
31.040012.004._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1mm	11g

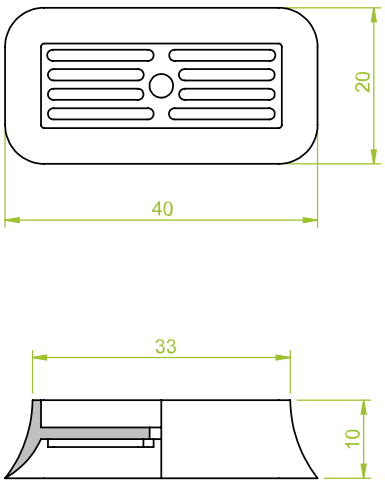
33.040020.017._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
2mm	20g

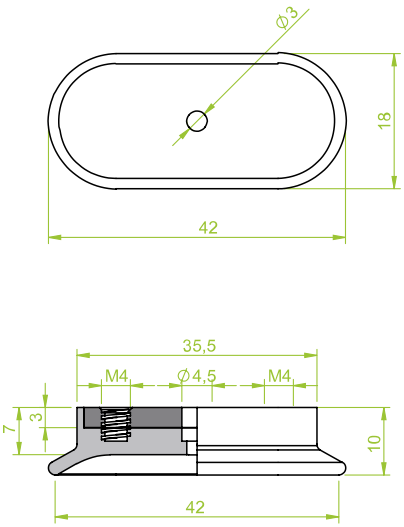
35.040020.009._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
2mm	20g

33.042018.033._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
3mm	5g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

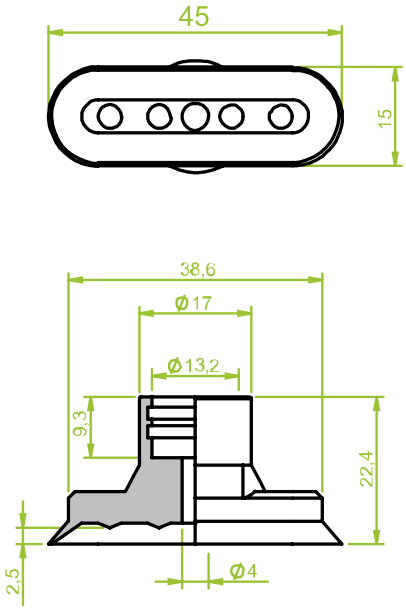
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.045015.022._

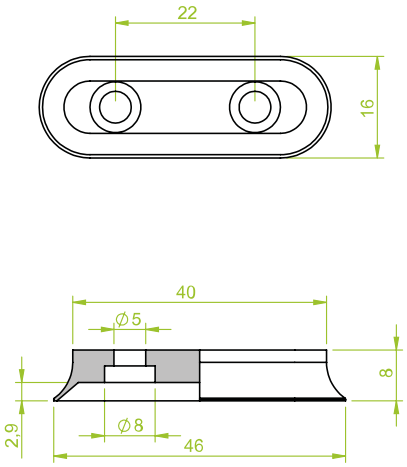


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.181	1/8" AG
130.245	1/4" AG

3mm	4.2g

30.045015.045._

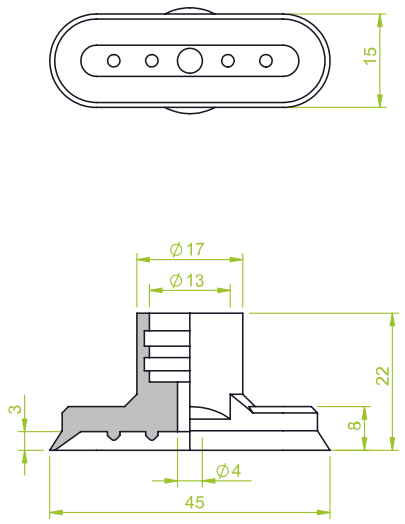


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.310	M5 AG

3mm	2.2g

33.045015.022._ vulkanisiert

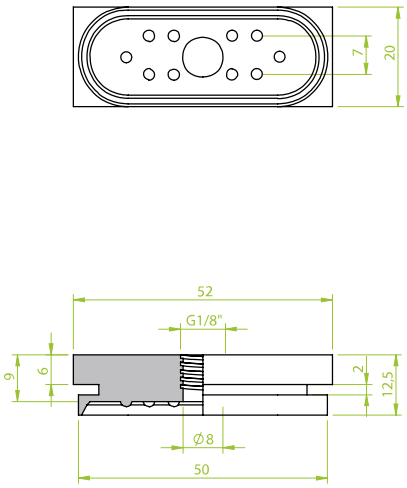


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	g

33.050020.005._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

3mm	18g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

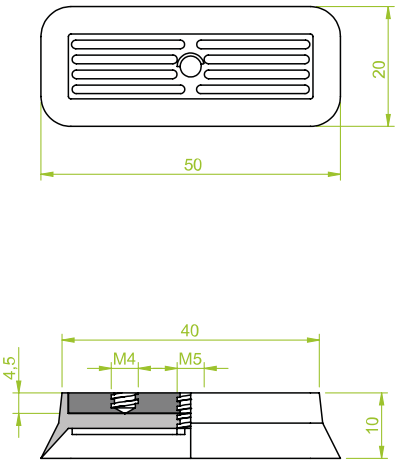
33.050020.006._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

33.050020.019._ vulkanisiert

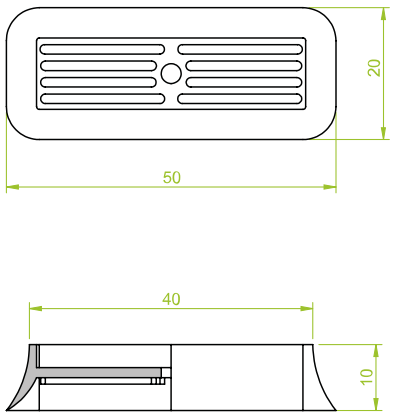


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	20g

35.050020.010._ vulkanisiert

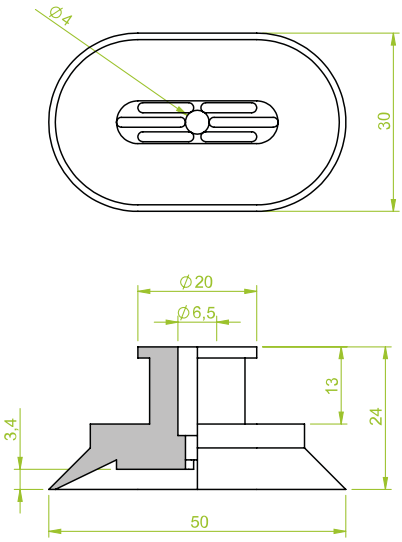


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	20g

30.050030.047._



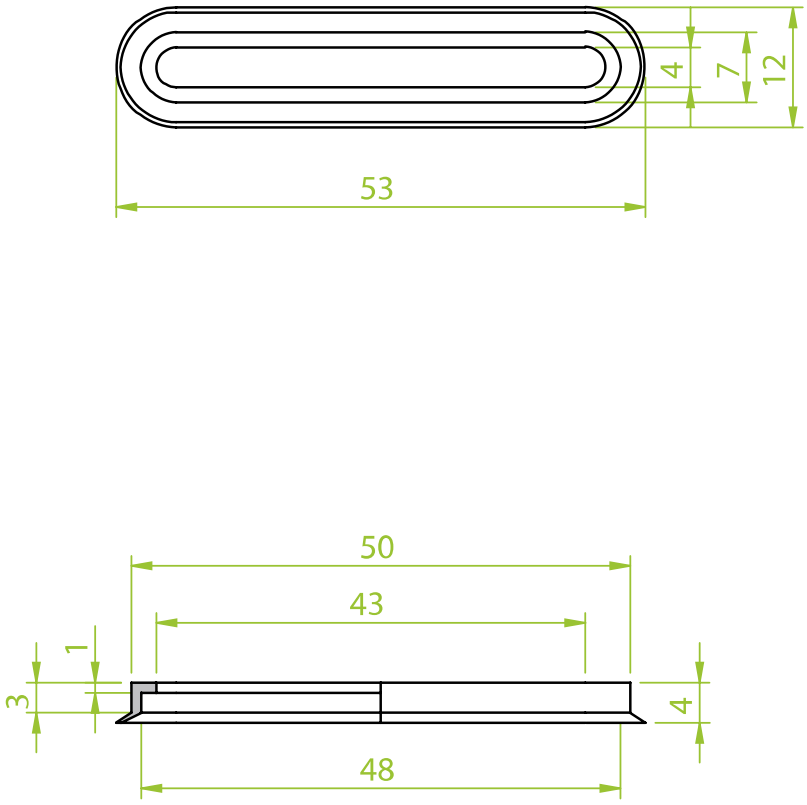
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.041 130.043	1/8" IG 1/4" AG

5mm	9.4g

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.053012.071._

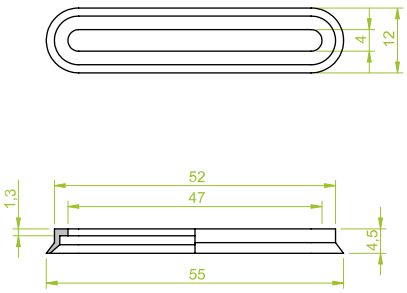


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	0.7g

30.055012.044._

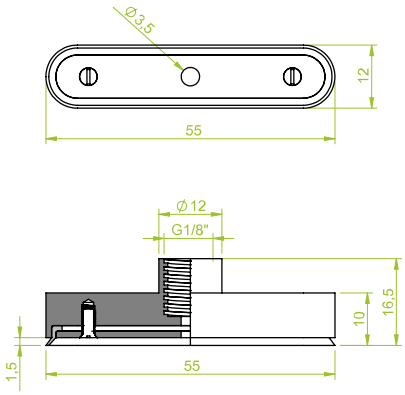


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	0.7g

31.055012.005._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1mm	16g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

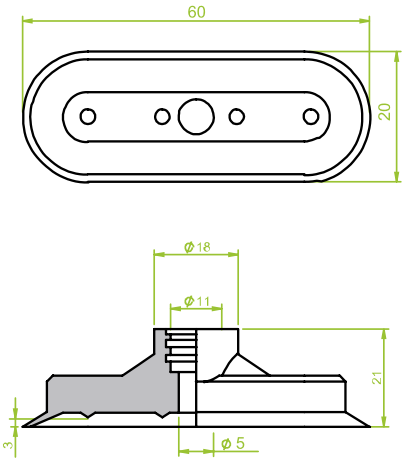
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.060020.023._

Mit Ohrklemme

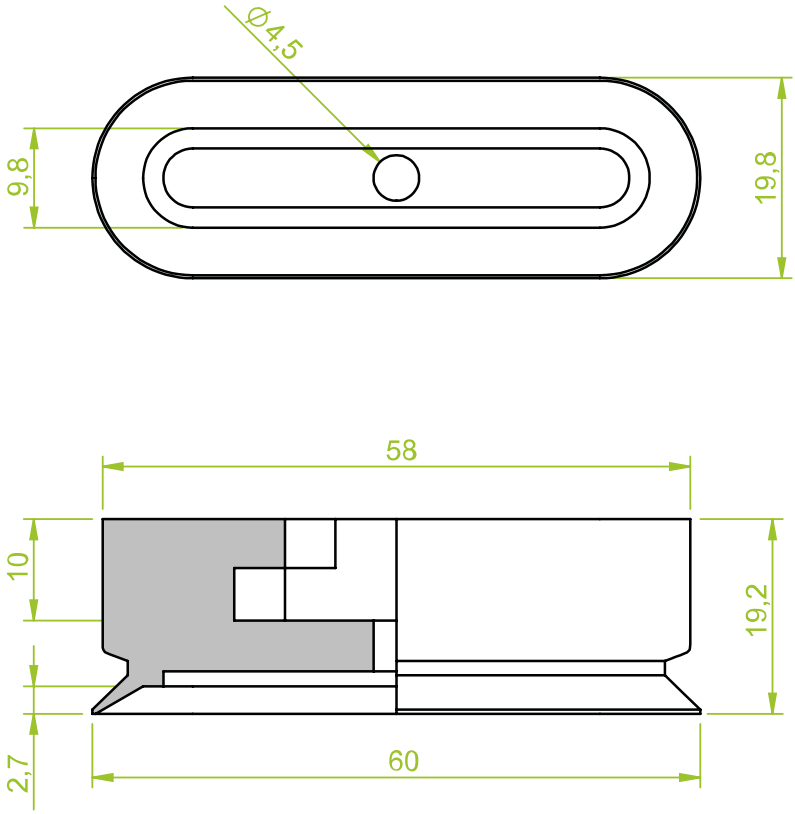


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.245	1/4" AG

4mm	9g

30.060020.069._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	13.7g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

33.060020.008._

vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
2.5mm	27g

33.060030.101._

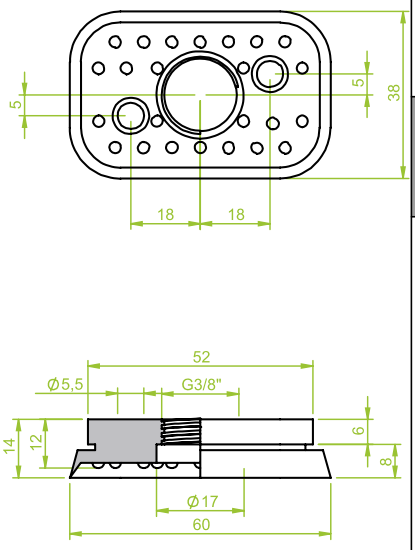
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
mm	0g

33.060038.002._

vulkanisiert

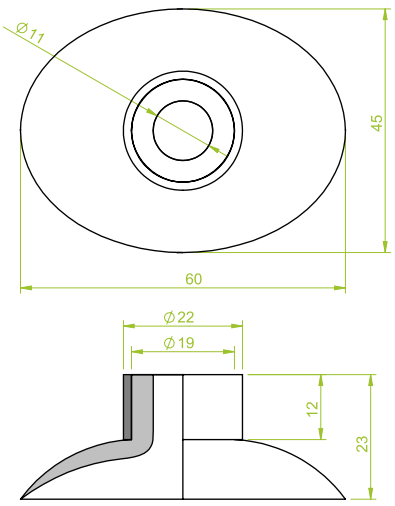
Materialcode
02 Silikon



Halter *Fitting*	Gewinde *Thread*
2mm	40g

30.060045.048._

Materialcode
02 Silikon

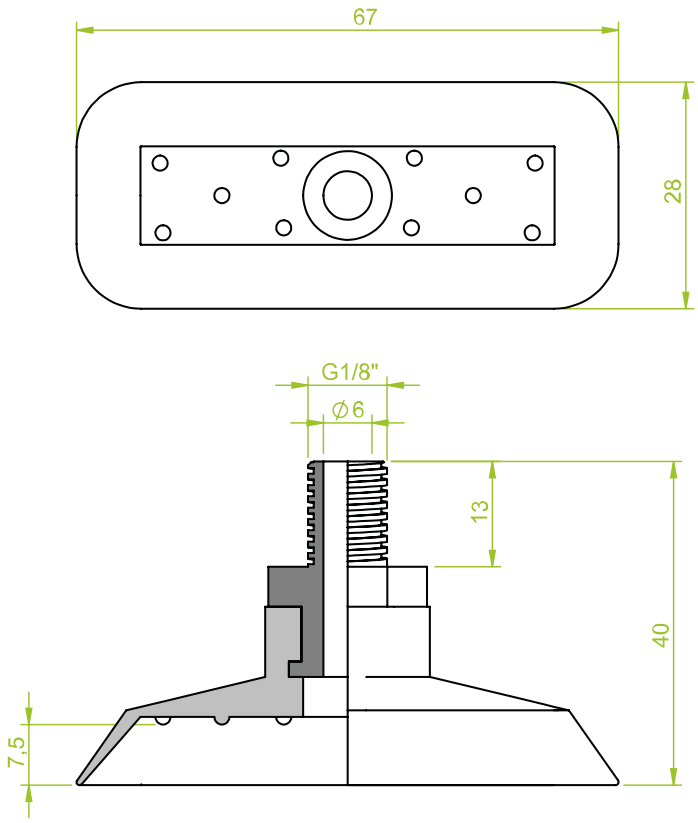


Halter *Fitting*	Gewinde *Thread*
10mm	5g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

34.067028.0829._

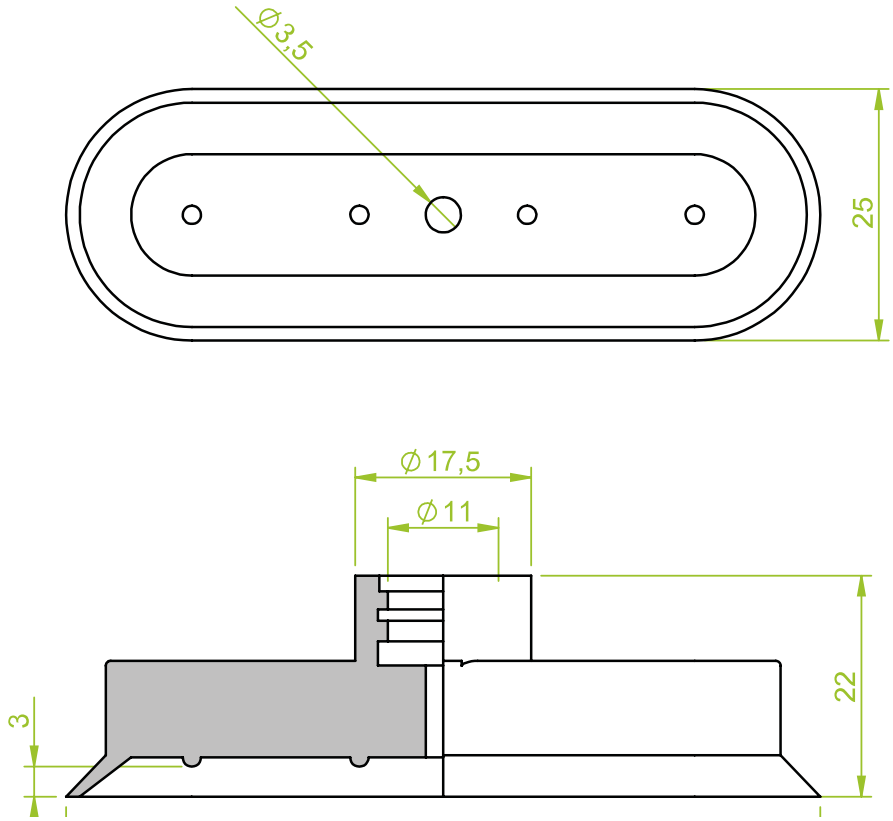


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	g

30.075025.024._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.245	1/4" AG

3mm	15g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

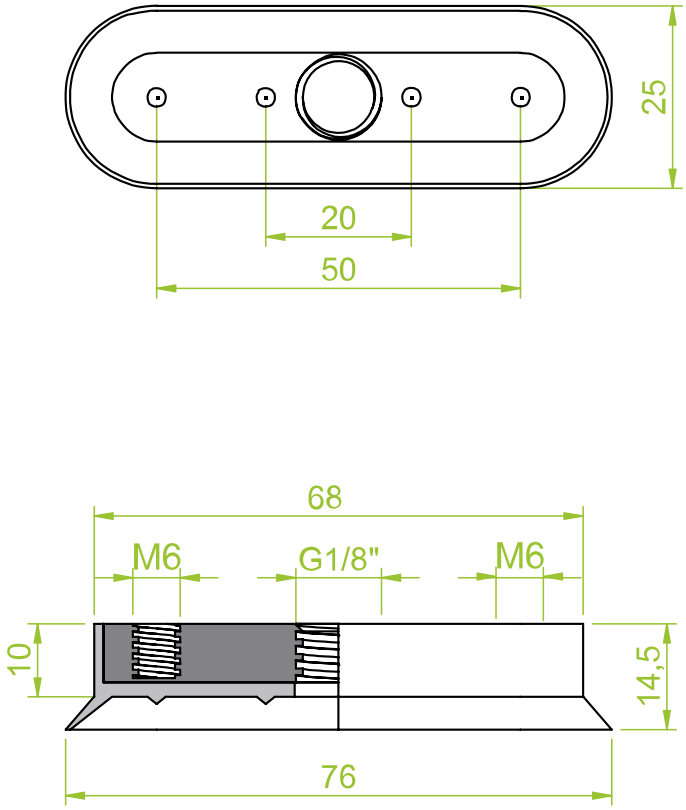
Stadtweg 30
D-78658 Zimmern o.R.

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

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

351
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.075025.022._ **vulkanisiert**

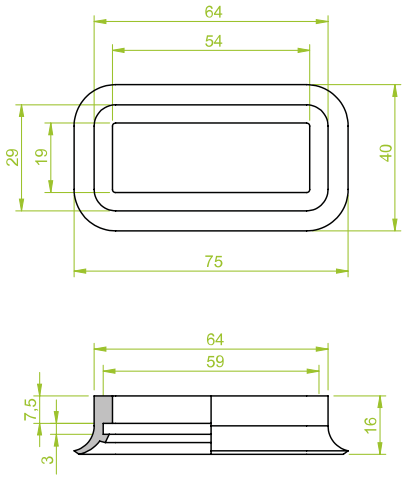


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	23g

30.075040.049._

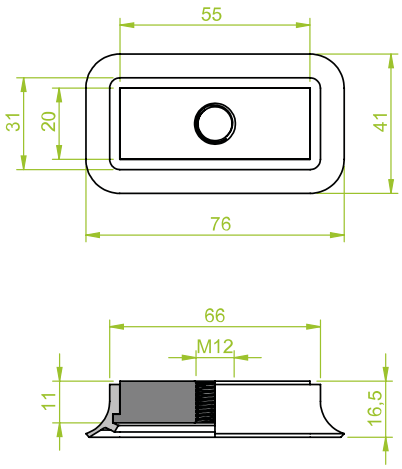


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	16g

31.075040.006._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	49g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

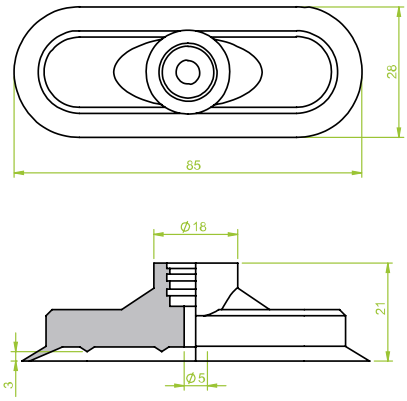
33.080040.103._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

30.085028.025._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.245	1/4" AG

4mm	20g

30.085028.063._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	20g

33.090030.102._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

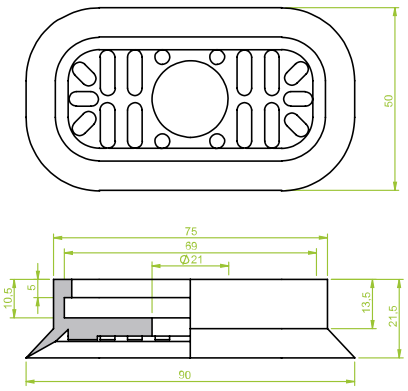
Stadtweg 30
D-78658 Zimmern o.R.

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

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

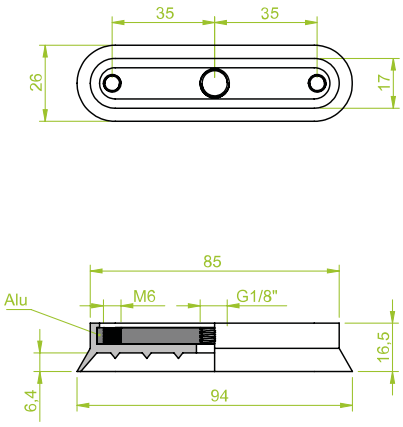
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.090050.066._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
6mm	69.8g

33.096027.023._ vulkanisiert



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
6.5mm	30g

35.100030.055._ vulkanisiert

Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
5mm	153g

35.100030.056._ vulkanisiert

Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
5mm	120g

Morali Produktionstechnik GmbH
Handling technology

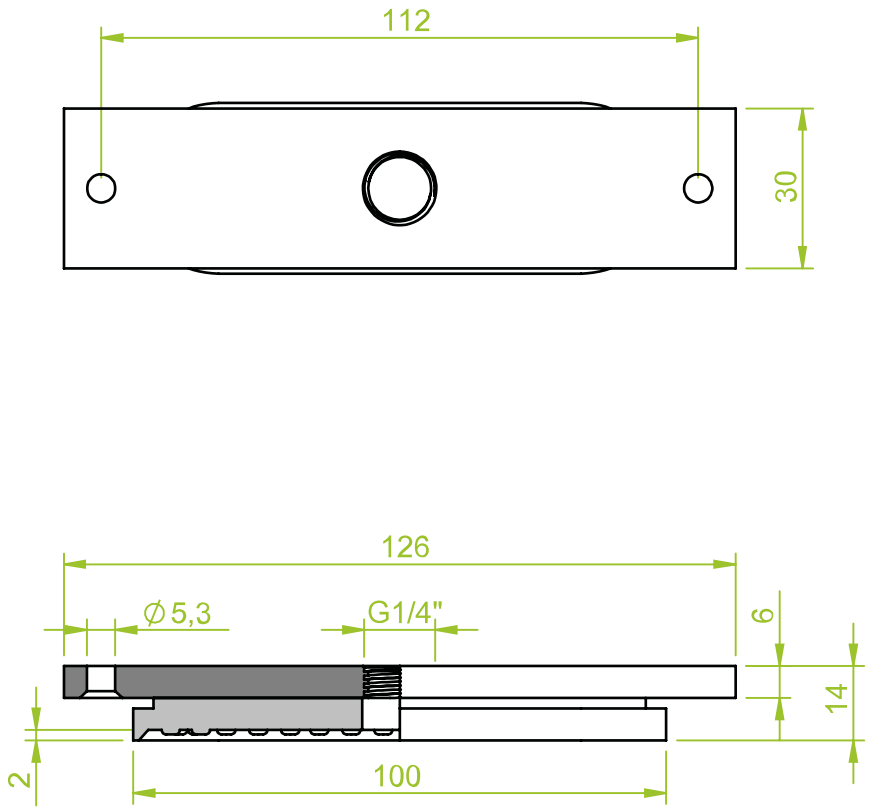
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.100032.006._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	73g

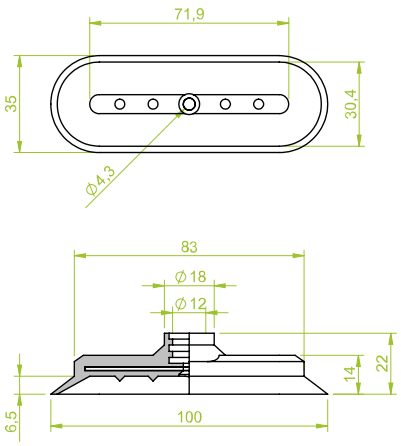
33.100032.007._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2.5mm	150g

30.100035.026._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097 130.098	1/4" AG 1/4" IG

4mm	32g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

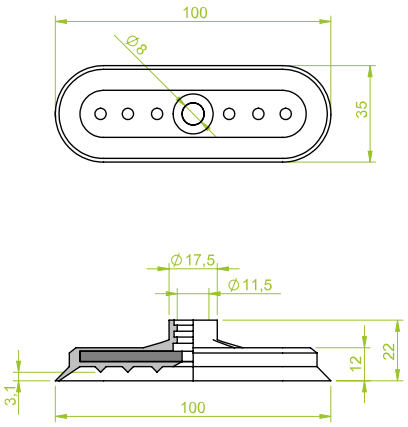
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.100035.064._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097 130.098	1/4" AG 1/4" IG

4mm	32g

33.100050.104._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

35.100055.007._

vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	100g

35.100055.054._

vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	140g

Morali Produktionstechnik GmbH
Handling technology

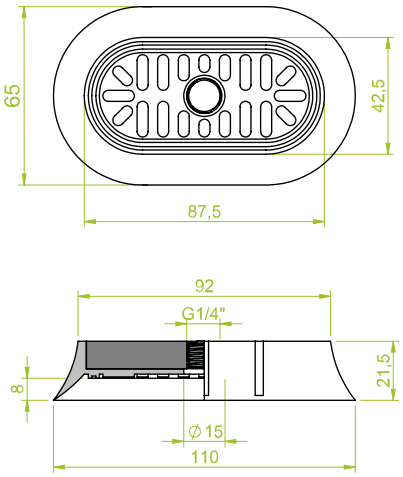
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.110065.032._ **vulkanisiert**

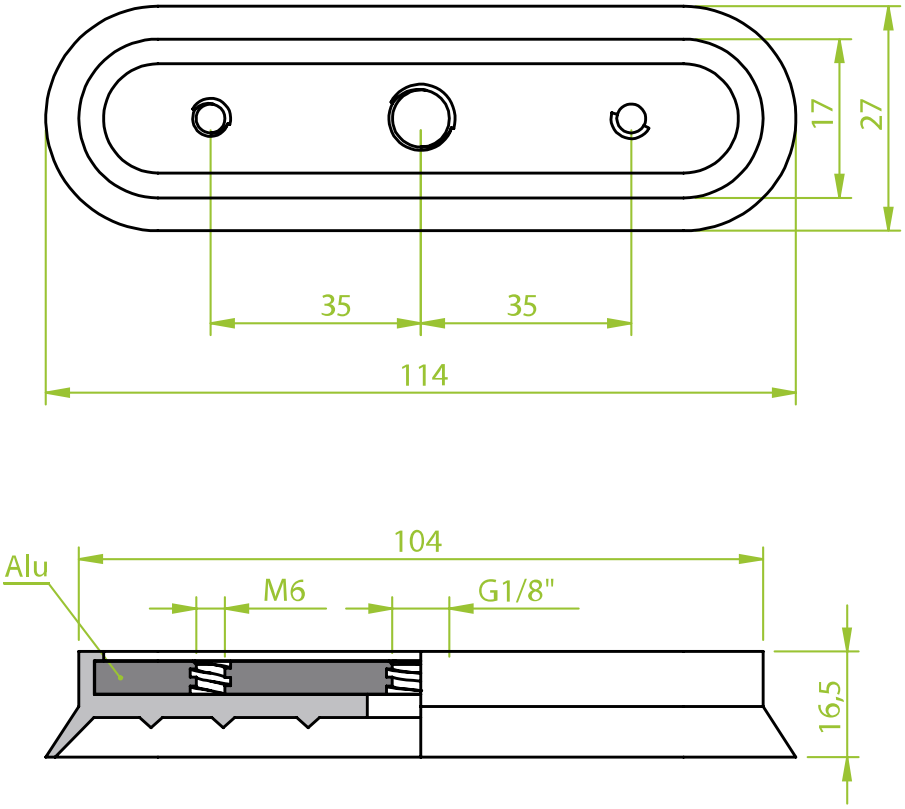


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	107.8g

33.116027.024._ **vulkanisiert**



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

6.5mm	38g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

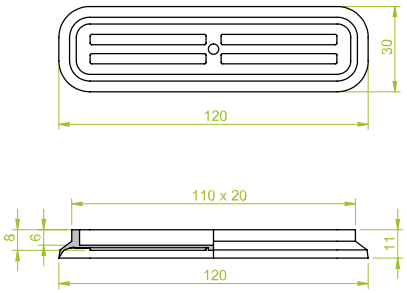
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.120030.018._

vulkanisiert

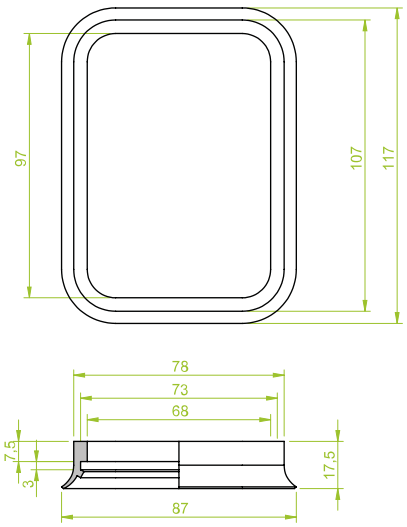


Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
3mm	110g

33.120060.105._

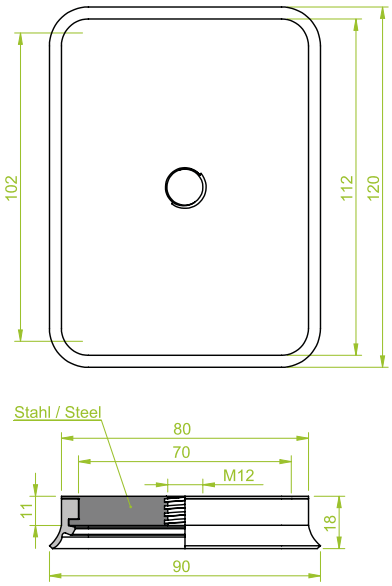
Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
mm	0g

30.120090.050._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
1.5mm	40g

31.120090.008._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
1.5mm	255g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

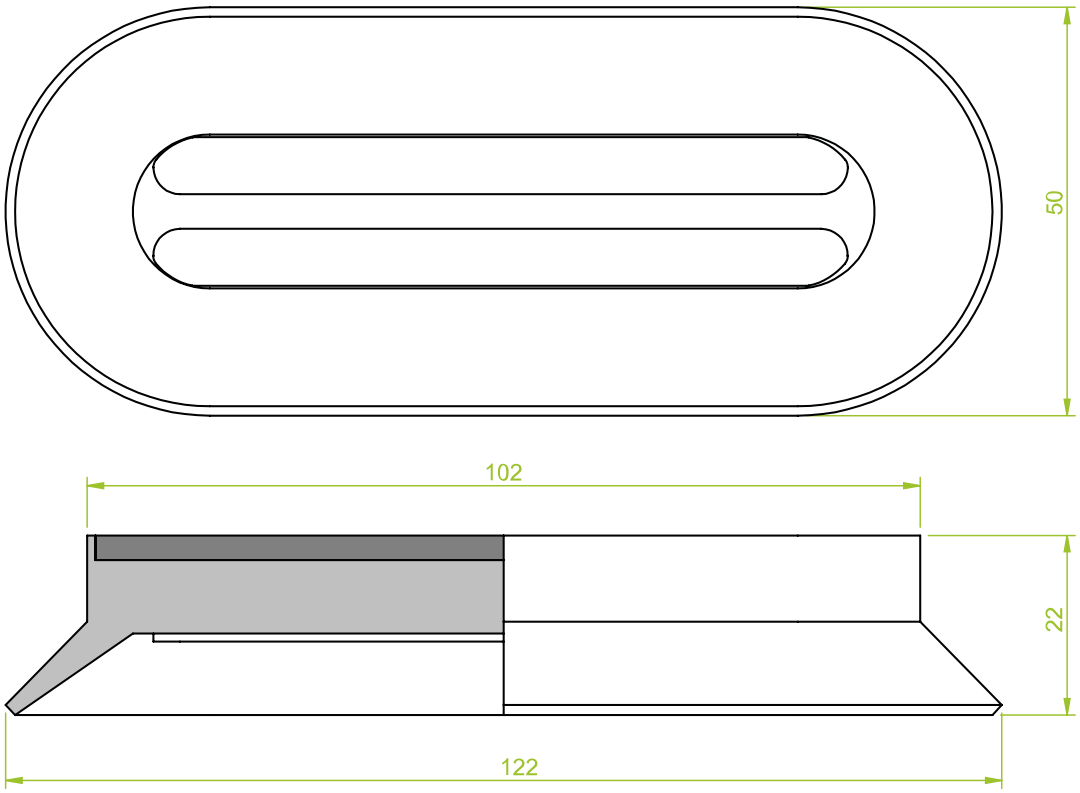
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.125055.019._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	192g

33.140070.106._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
mm	0g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

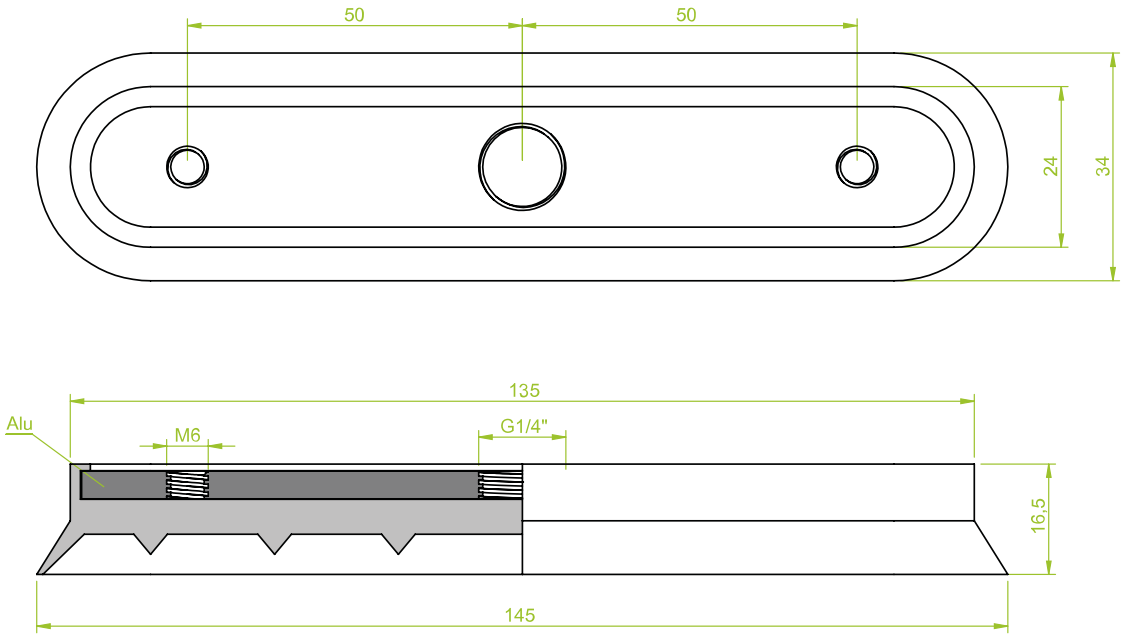
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.145034.026._

vulkanisiert



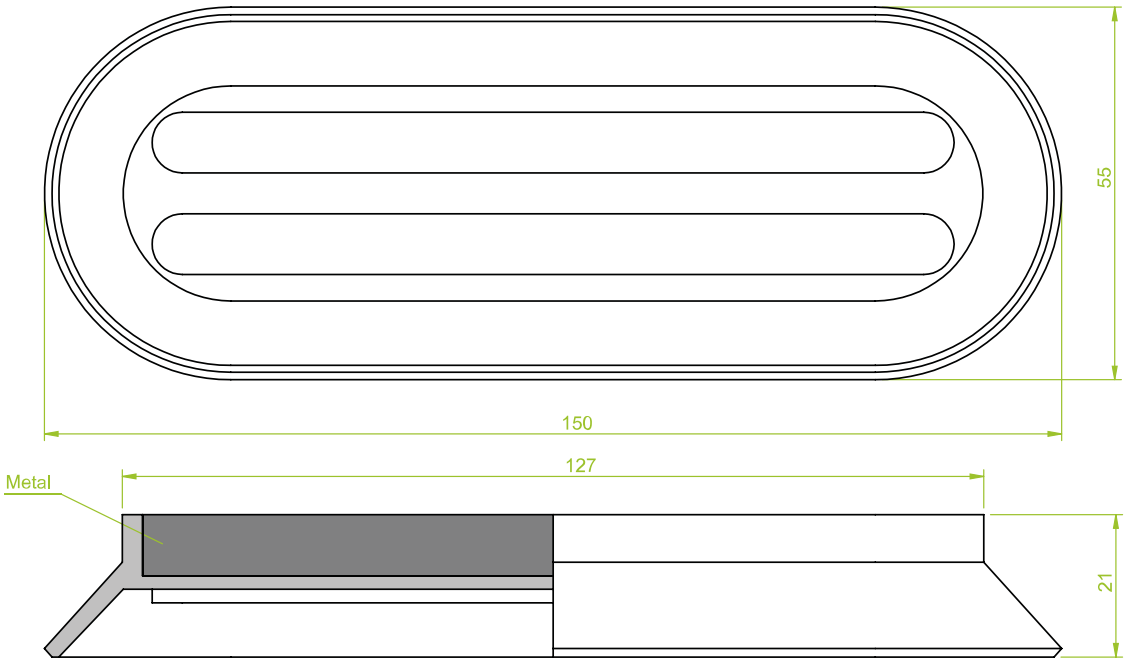
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7.5mm	50g

35.150055.021._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	255g

Morali Produktionstechnik GmbH
Handling technology

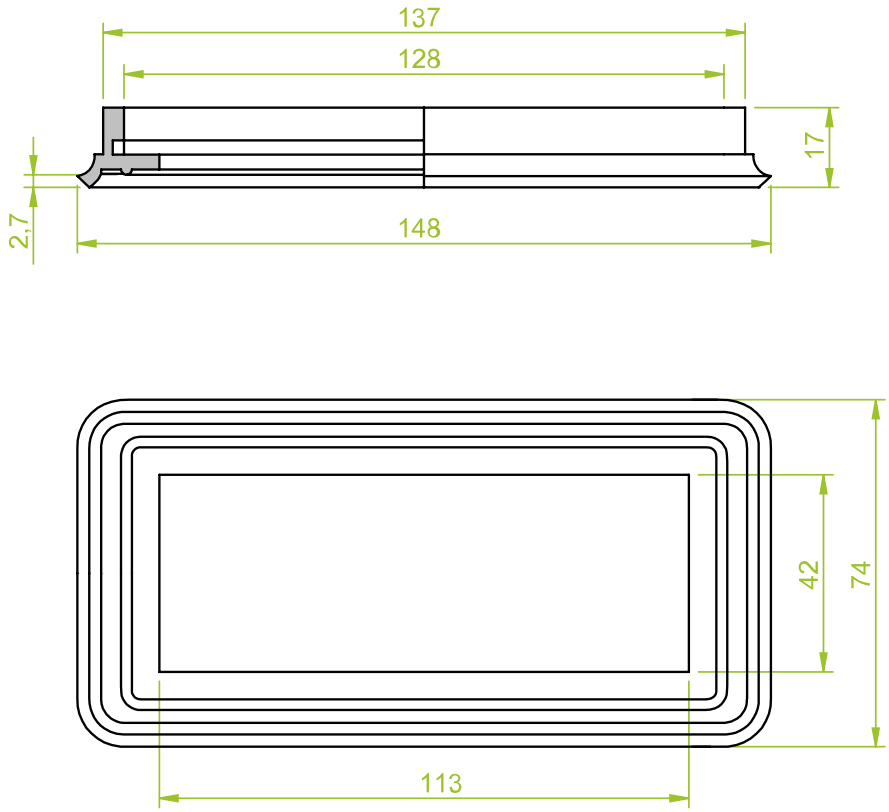
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.150075.001._

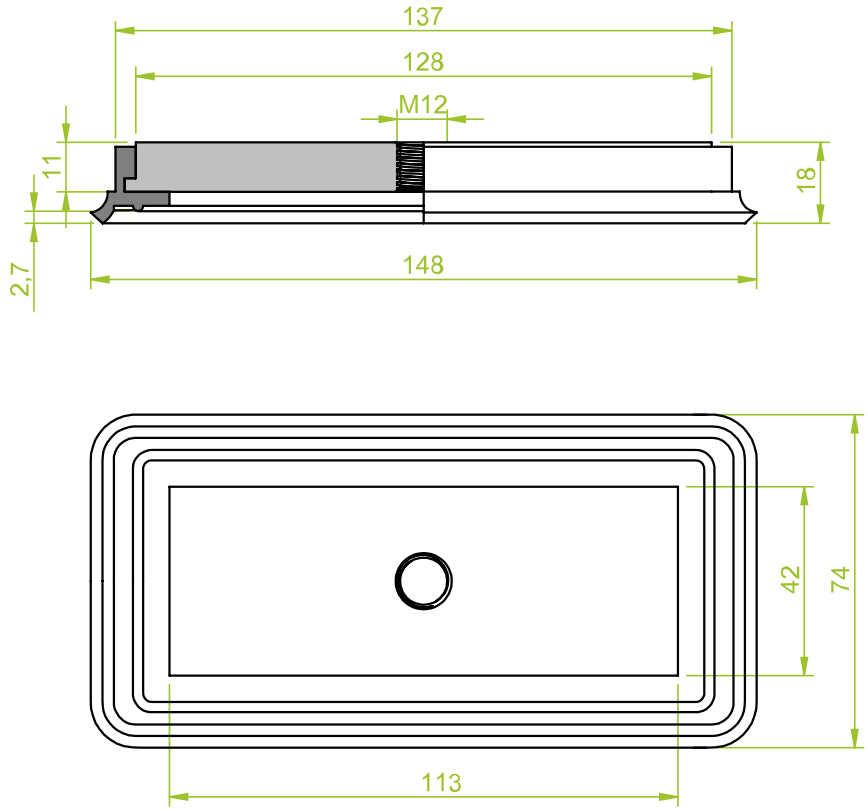


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	50g

31.150075.001._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	260g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

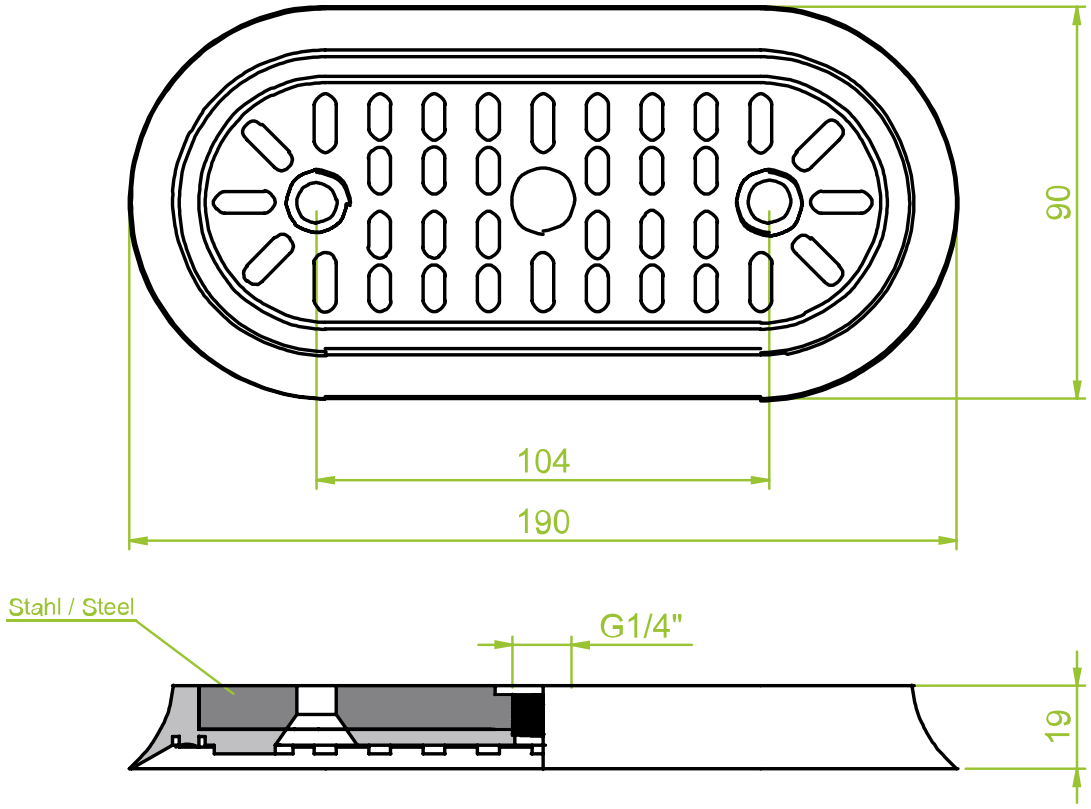
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

30.180006.018._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
mm	g

33.190090.004._ **vulkanisiert**



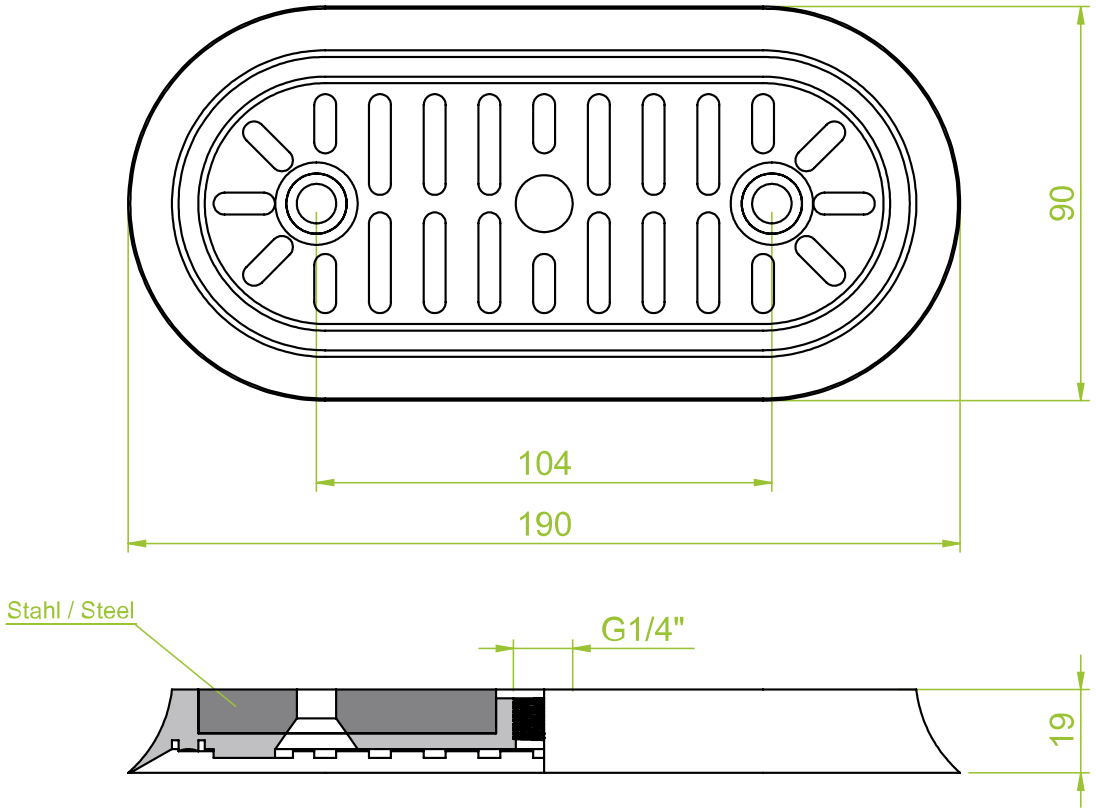
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
5.5mm	g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.190090.034._ **vulkanisiert**

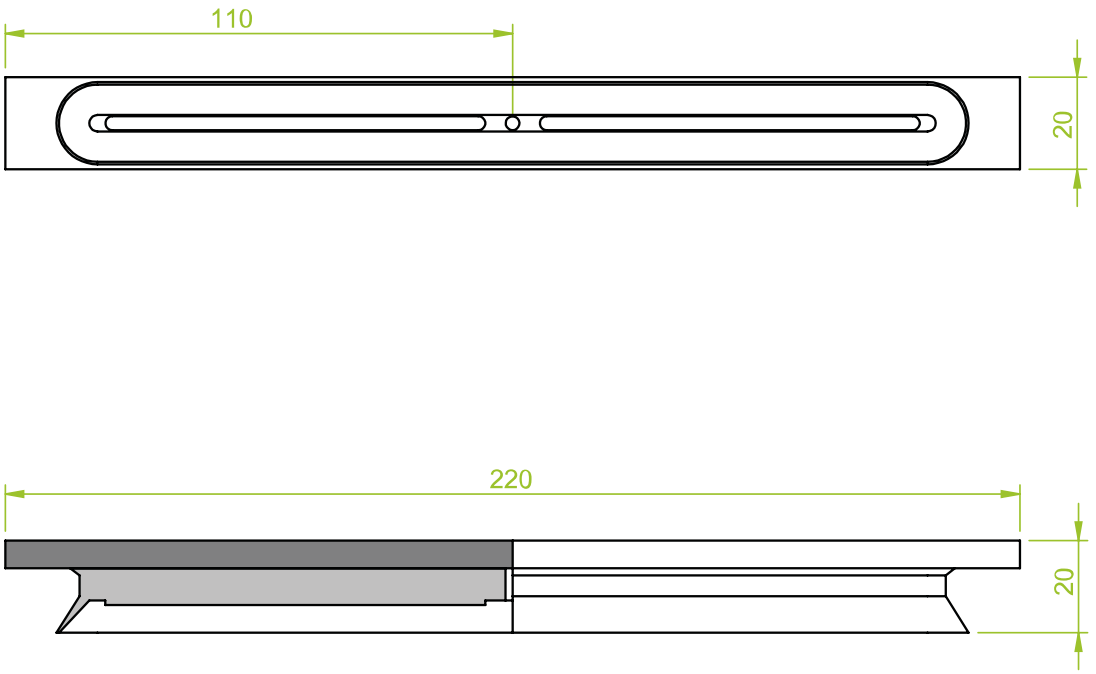


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

2mm	294.5g

35.200020.022._ **vulkanisiert**



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

5mm	220g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

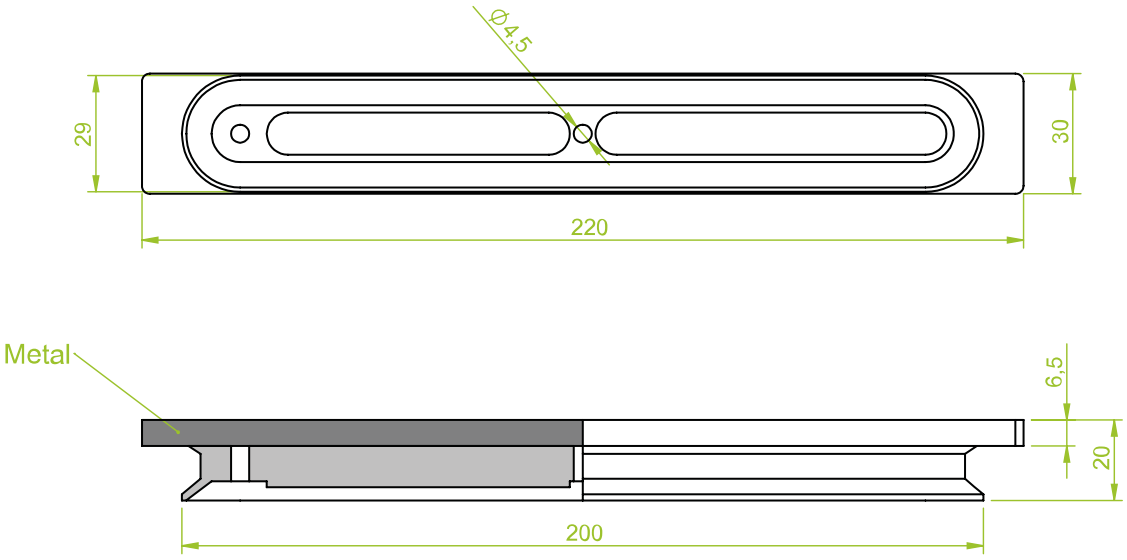
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.200030.021._ **vulkanisiert**

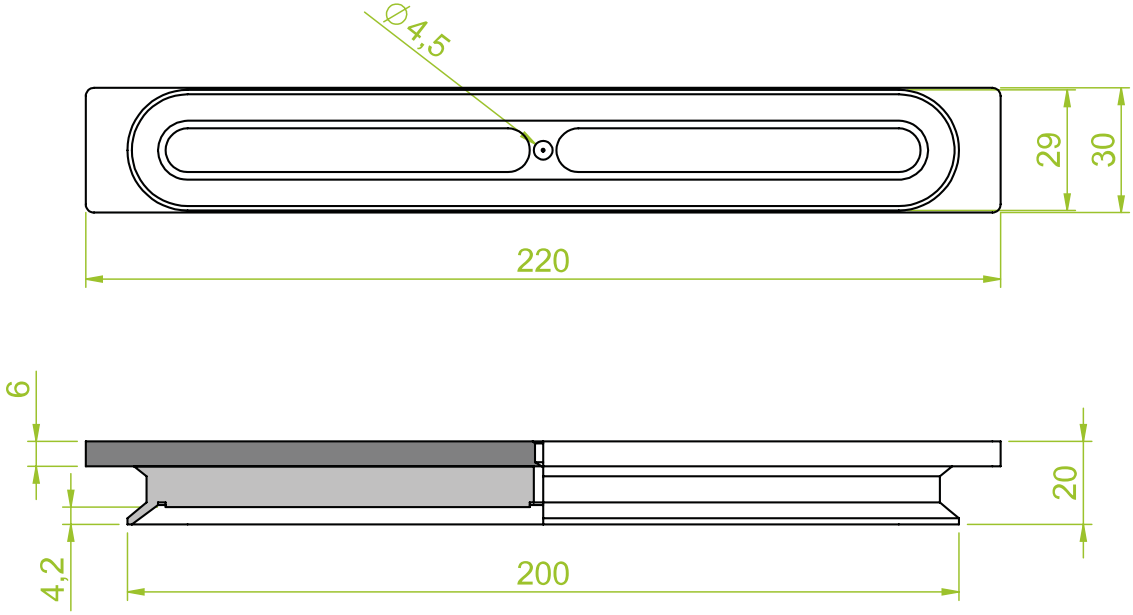


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	124g

35.200030.023._ **vulkanisiert**



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	286g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.200035.024._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
0mm	300g

35.200040.025._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	140g

35.200040.026._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
9mm	80g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

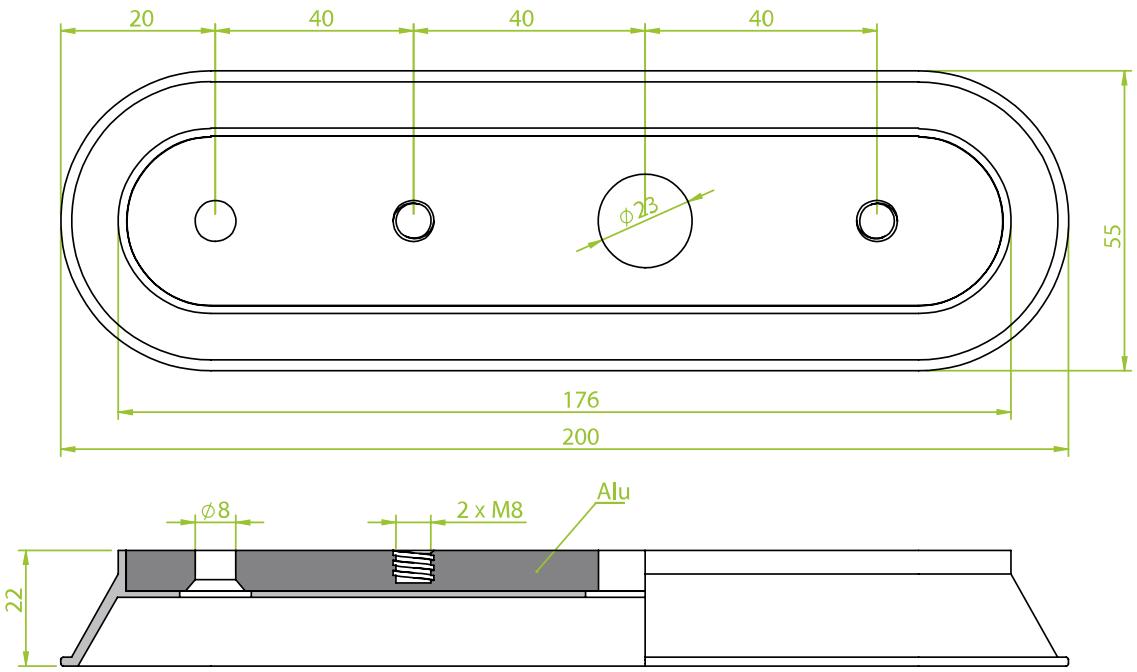
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.200055.027._

vulkanisiert



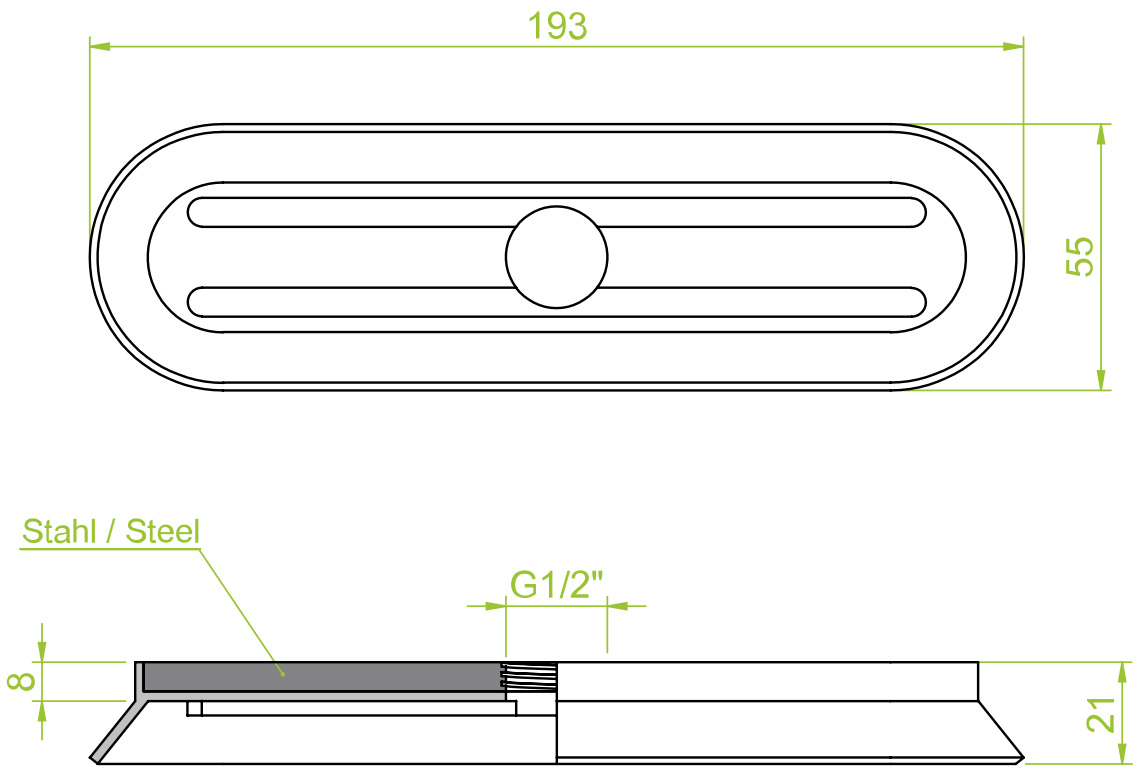
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	147.3g

33.200055.039._

vulkanisiert



Materialcode
02 Silikon

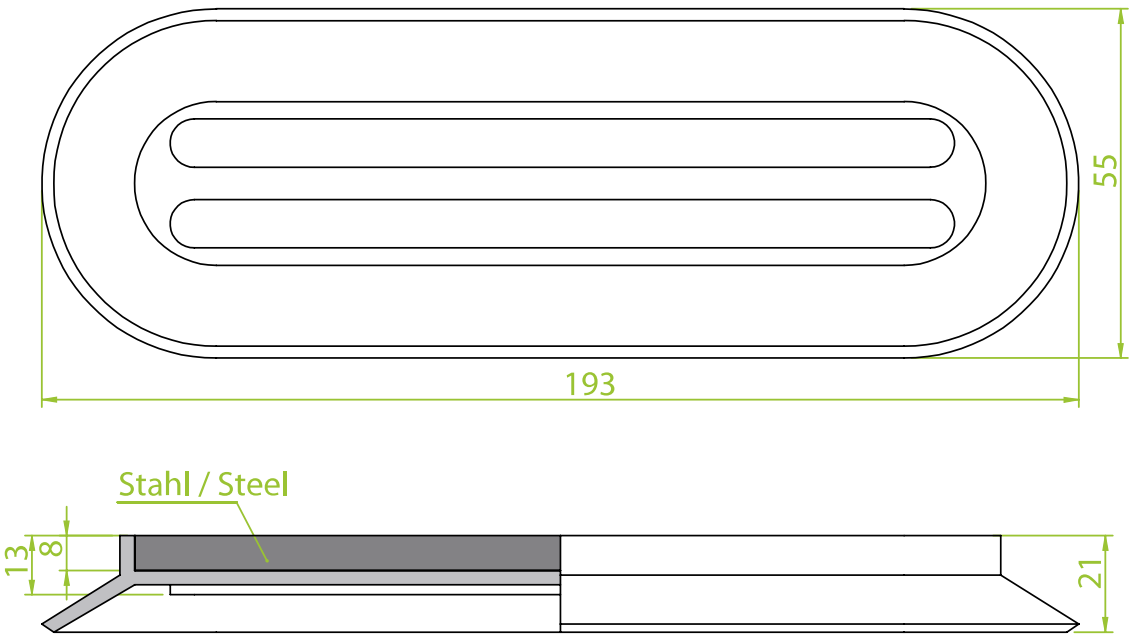
Halter *Fitting*	Gewinde *Thread*

7mm	151.6g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.200055.027._ vulkanisiert

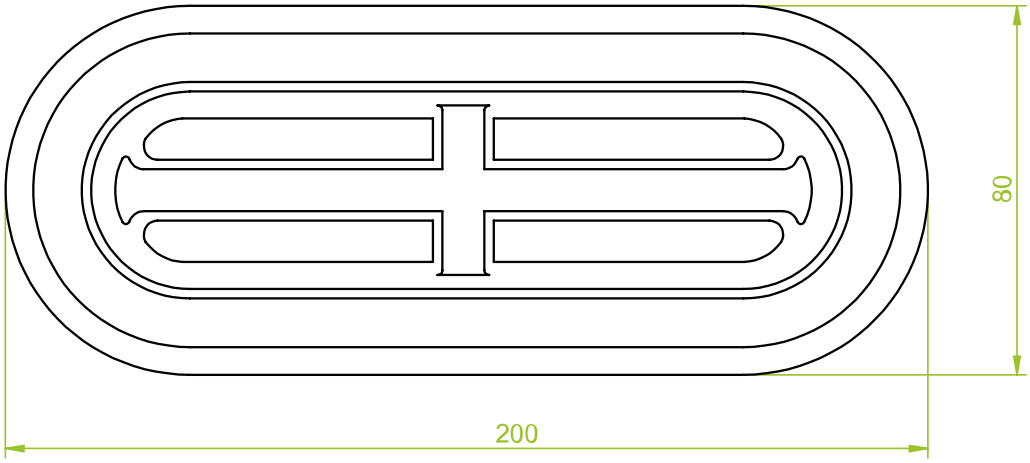


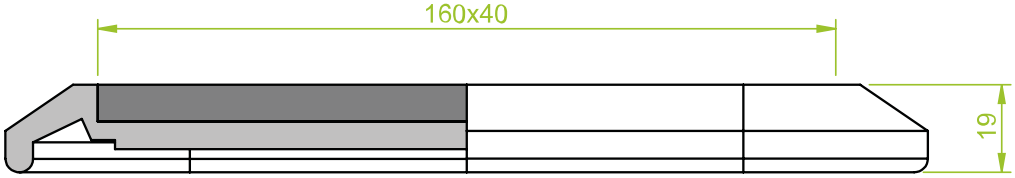
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

6.7mm	161.2g

35.200080.028._ vulkanisiert





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

4mm	460g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

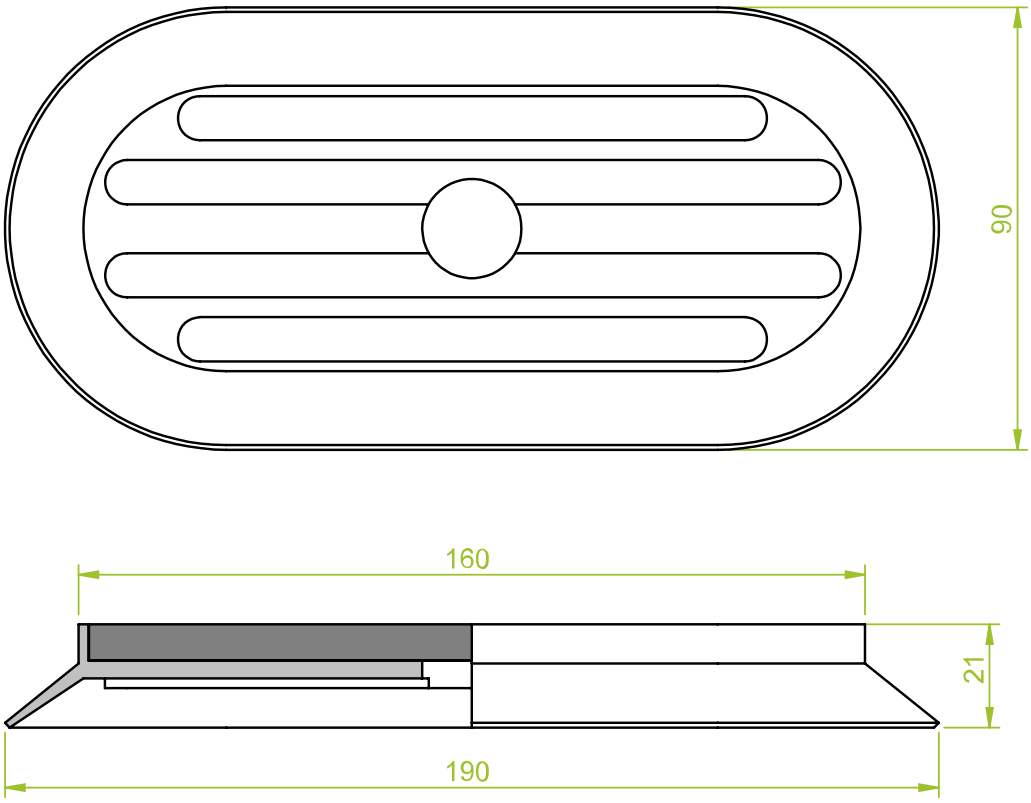
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.200100.032._



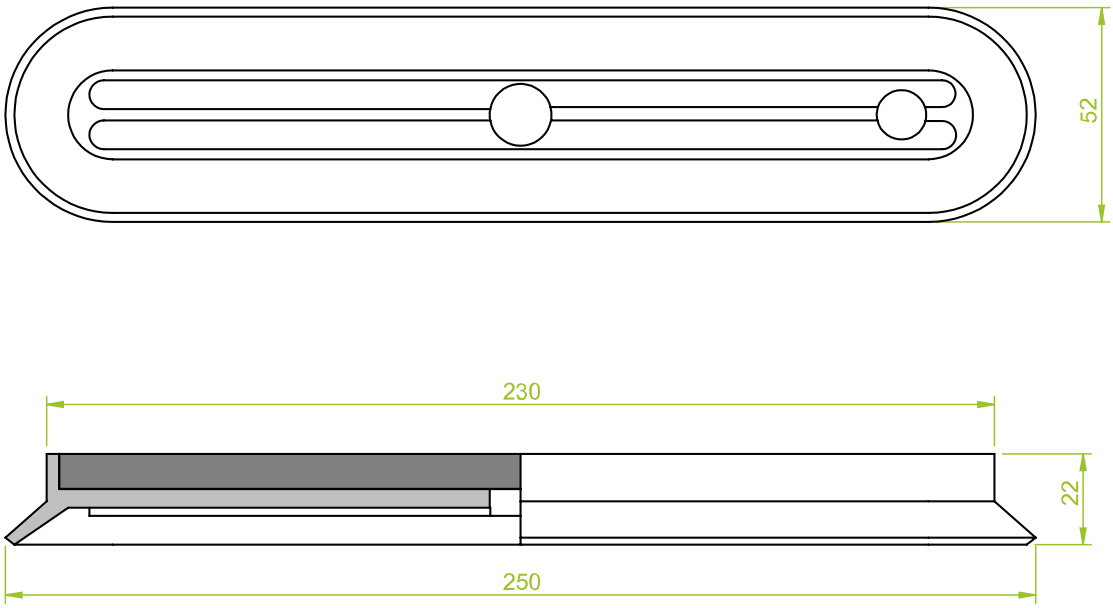
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	450g

35.250055.005._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	460g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.250080.029._ vulkanisiert

Materialcode
02 Silikon

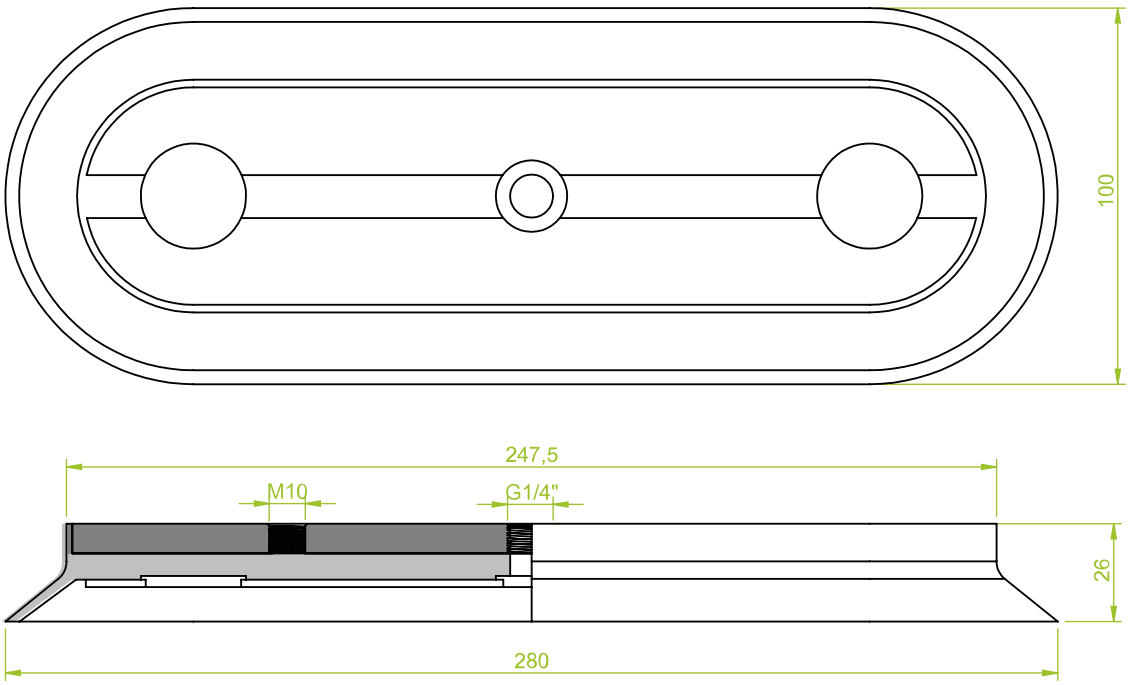
Halter *Fitting*	Gewinde *Thread*
10mm	500g

35.250080.030._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
10mm	350g

33.280100.033._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
10mm	530g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

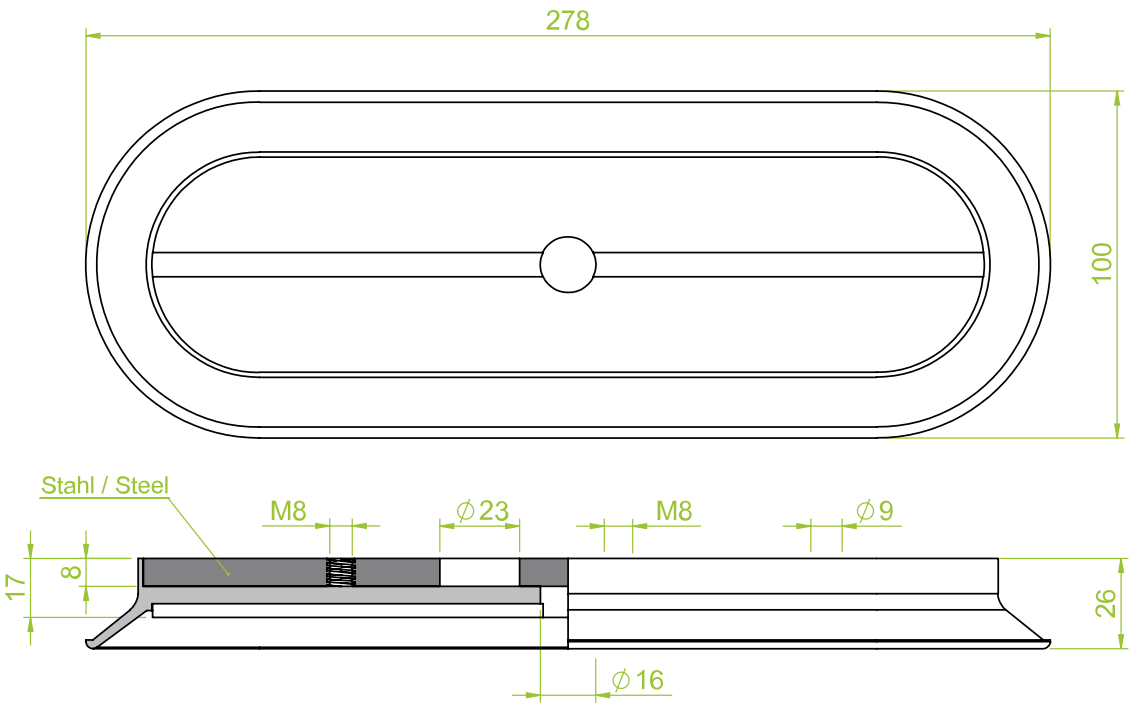
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.280100.043._

vulkanisiert



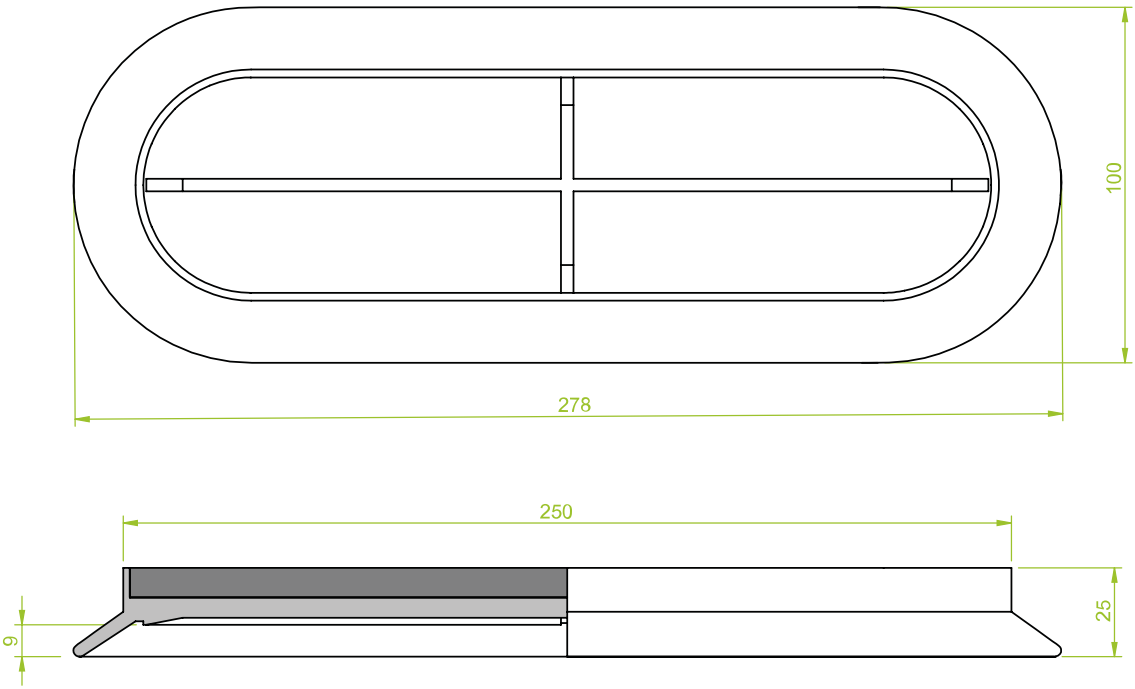
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	512g

35.280100.001._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	1180g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

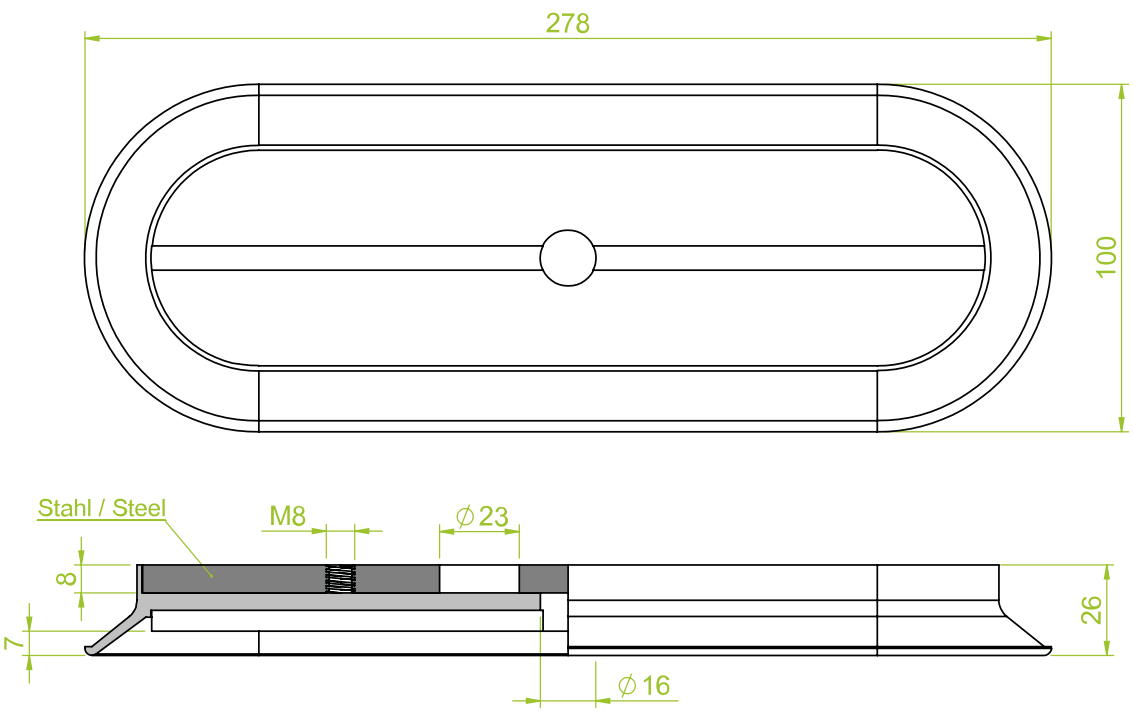
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.280100.033._

vulkanisiert

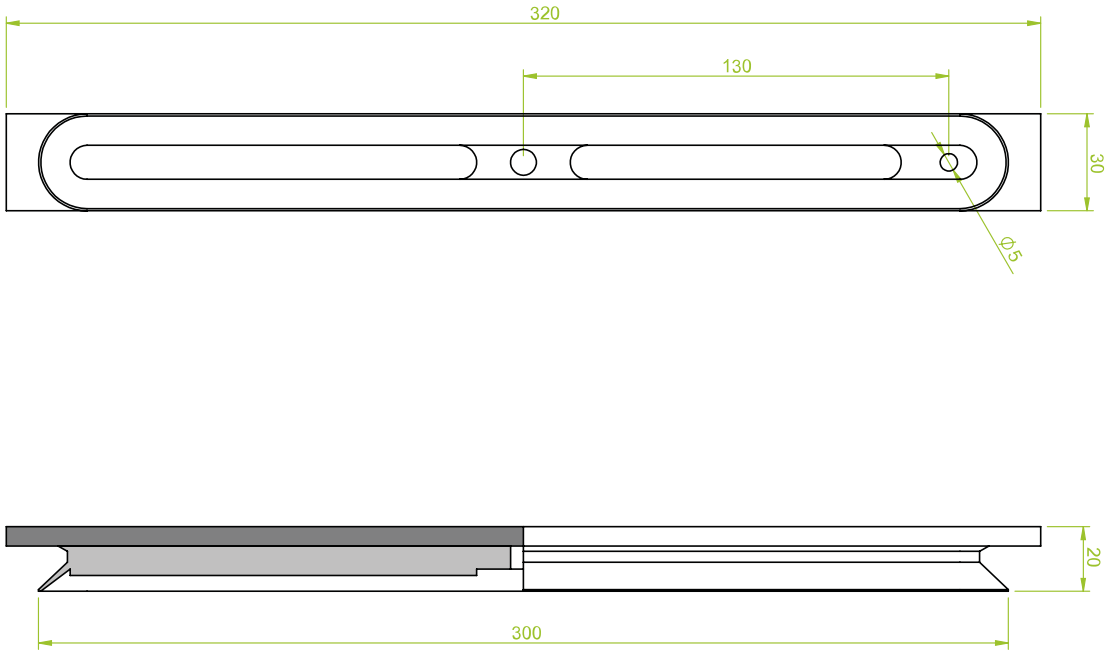


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
10mm	530g

35.300030.037._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
5mm	500g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

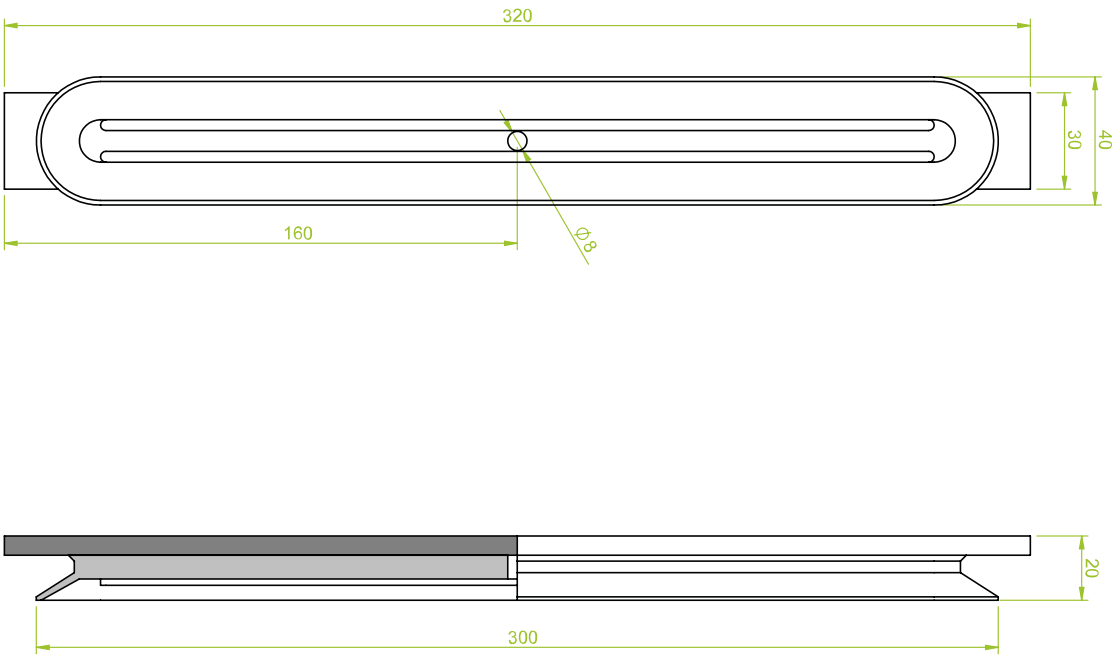
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.300040.038._

vulkanisiert



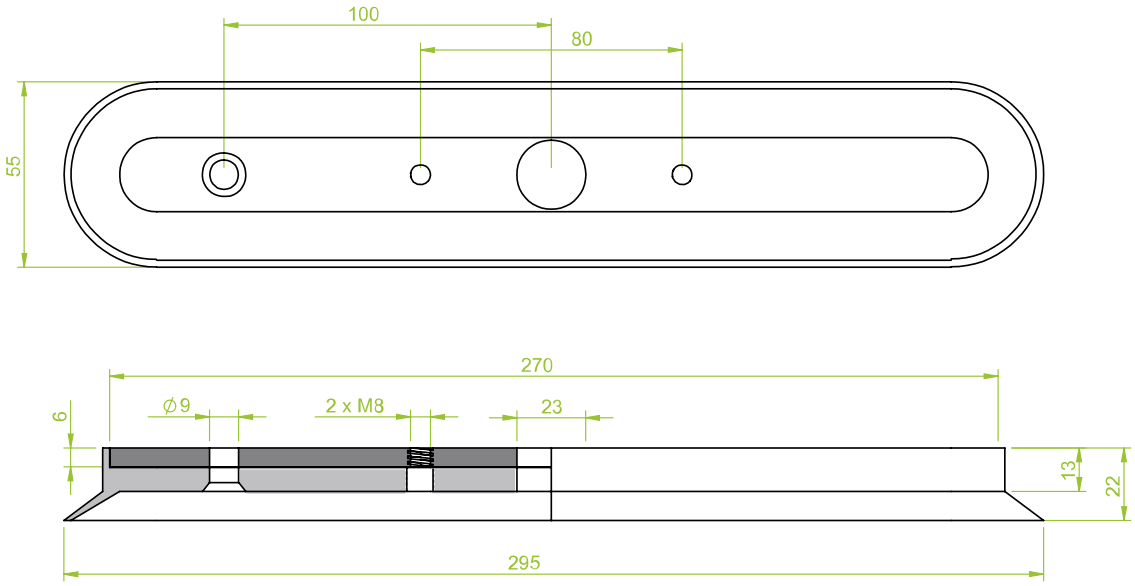
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

7mm	500g

33.300055.029._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	218g

Morali Produktionstechnik GmbH
Handling technology

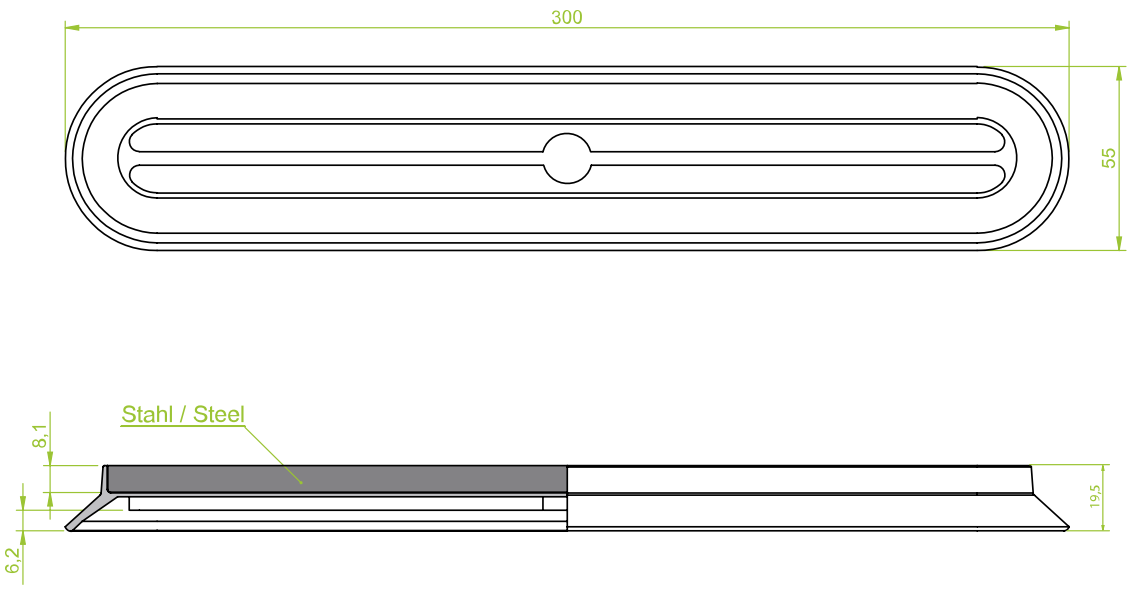
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.300055.006._ **vulkanisiert**



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	550g

35.300055.035._ **vulkanisiert**

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

8mm	300g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

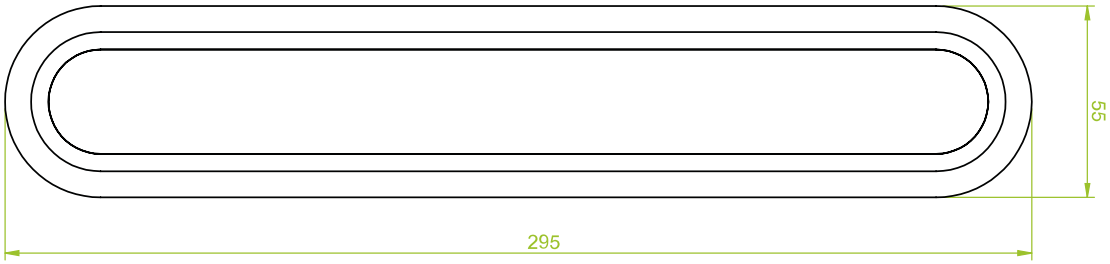
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

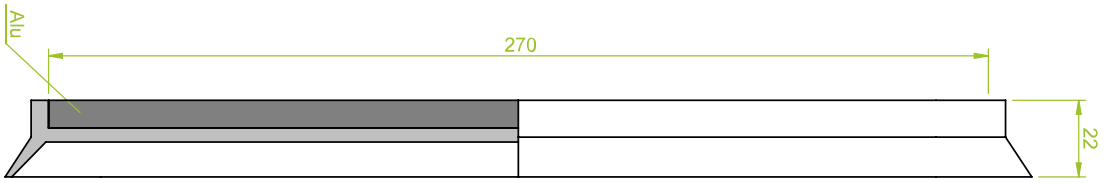
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.300055.036._

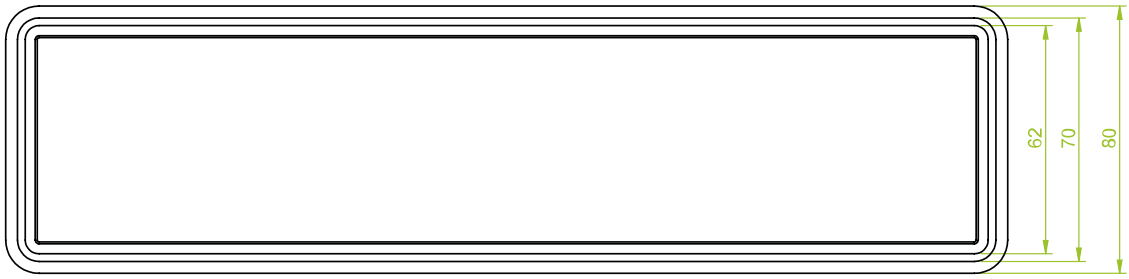
vulkanisiert

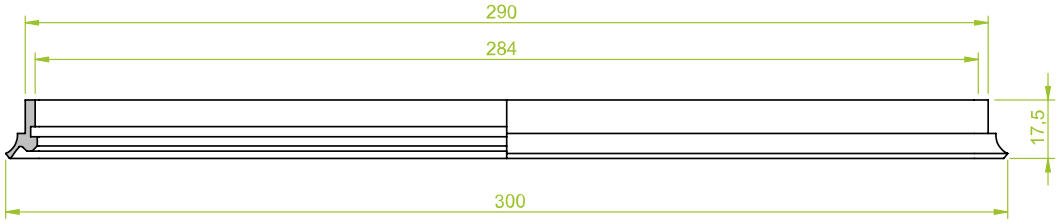




Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
9mm	240g

30.300080.051._





Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
1.5mm	100g

Morali Produktionstechnik GmbH
Handling technology

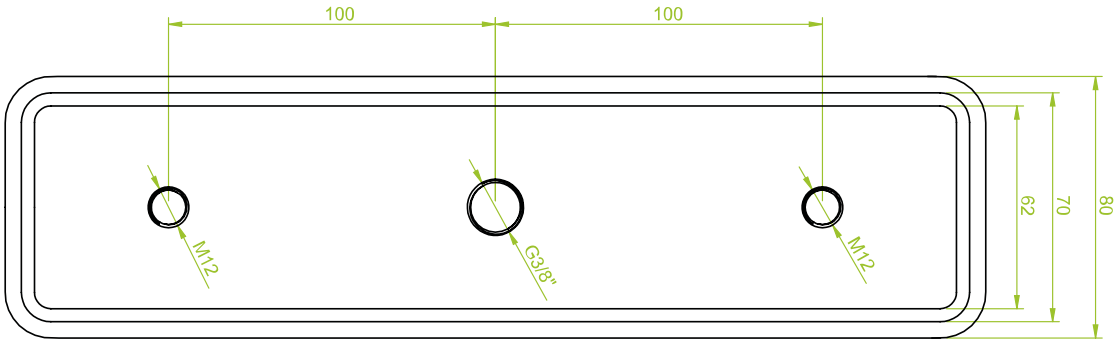
Stadtweg 30
D-78658 Zimmern o.R.

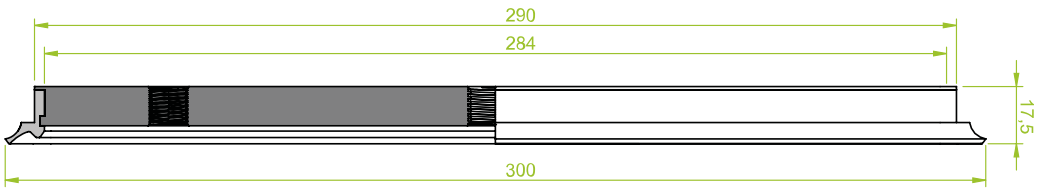
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

31.300080.010._





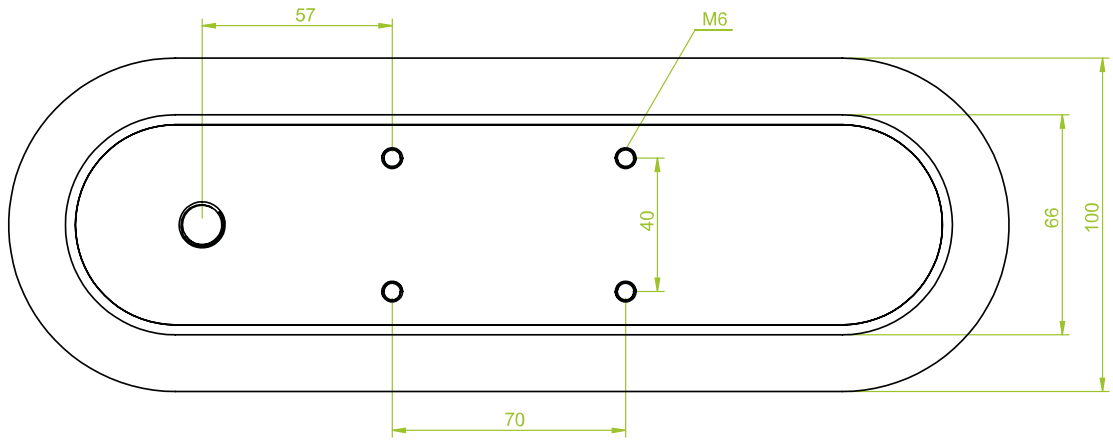
Materialcode
02 Silikon

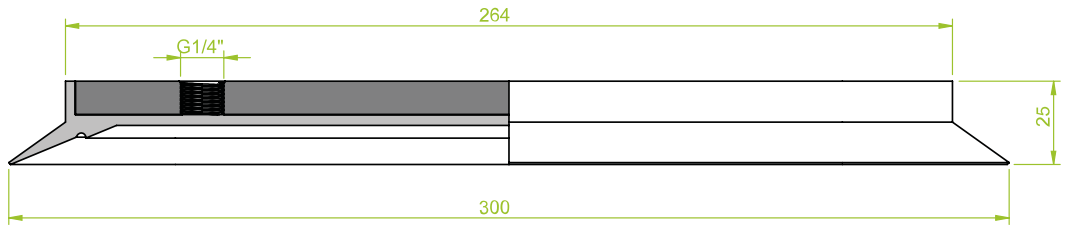
Halter *Fitting*	Gewinde *Thread*

1.5mm	500g

33.300100.030._

vulkanisiert





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	1275g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.300120.040._ vulkanisiert

Materialcode
02 Silikon

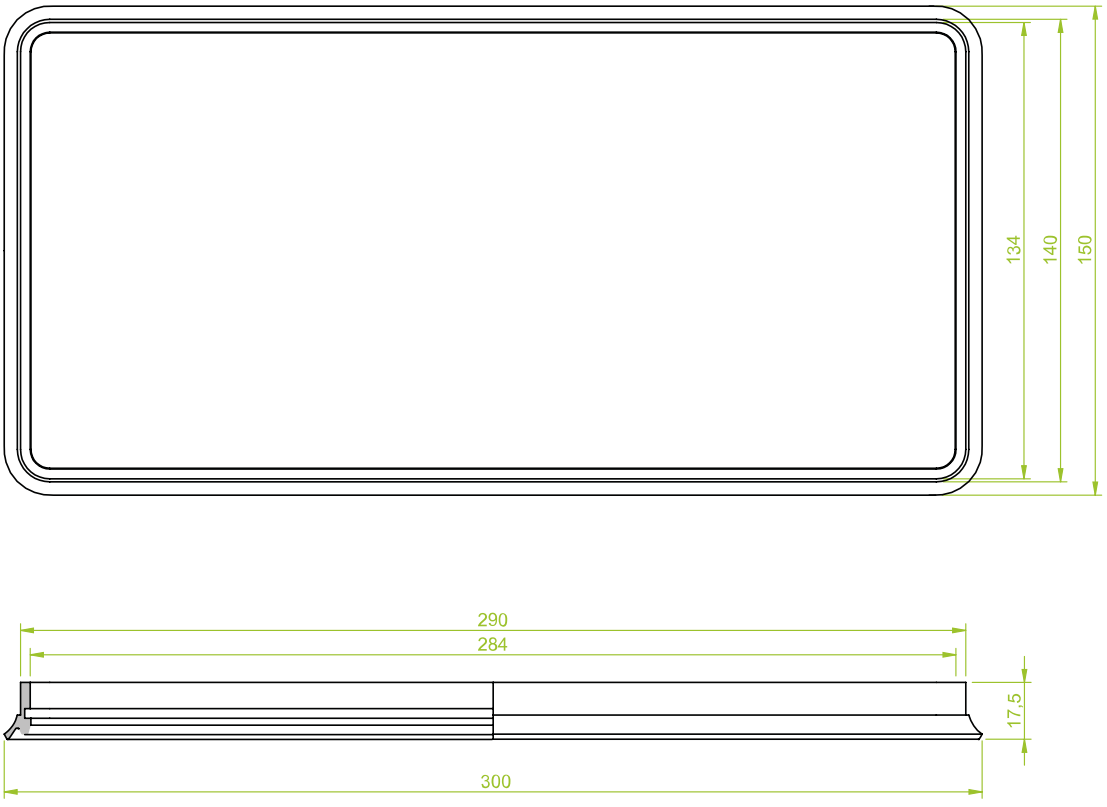
Halter *Fitting*	Gewinde *Thread*
17mm	1260g

35.300120.041._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
17mm	570g

30.300150.052._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
1.5mm	0g

Morali Produktionstechnik GmbH
Handling technology

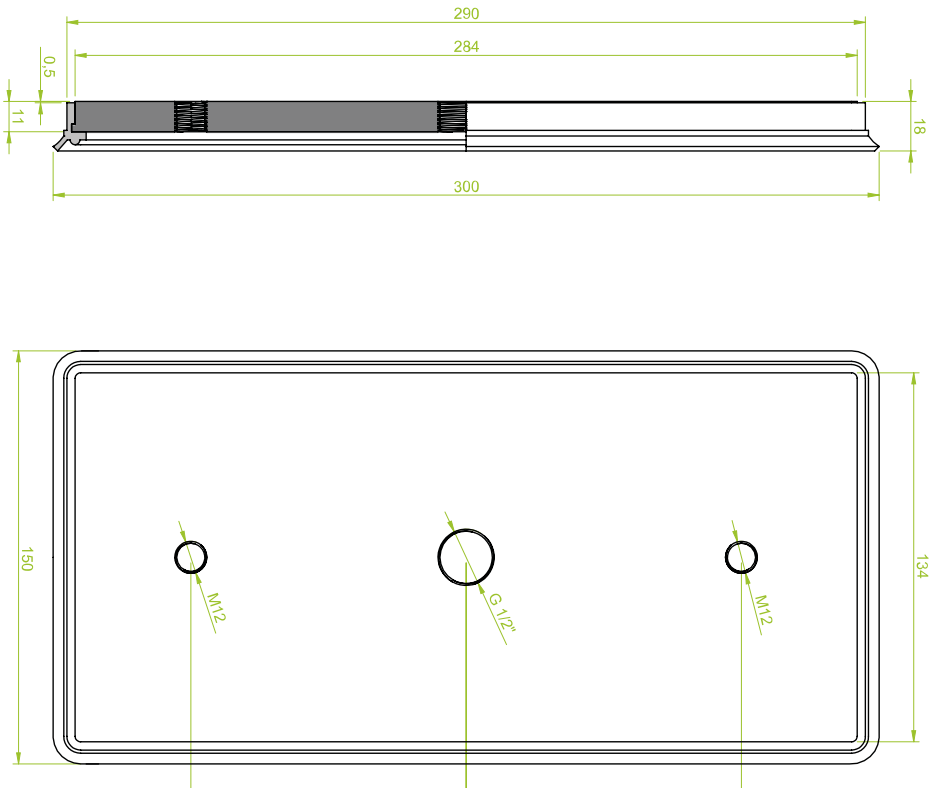
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

31.300150.011._



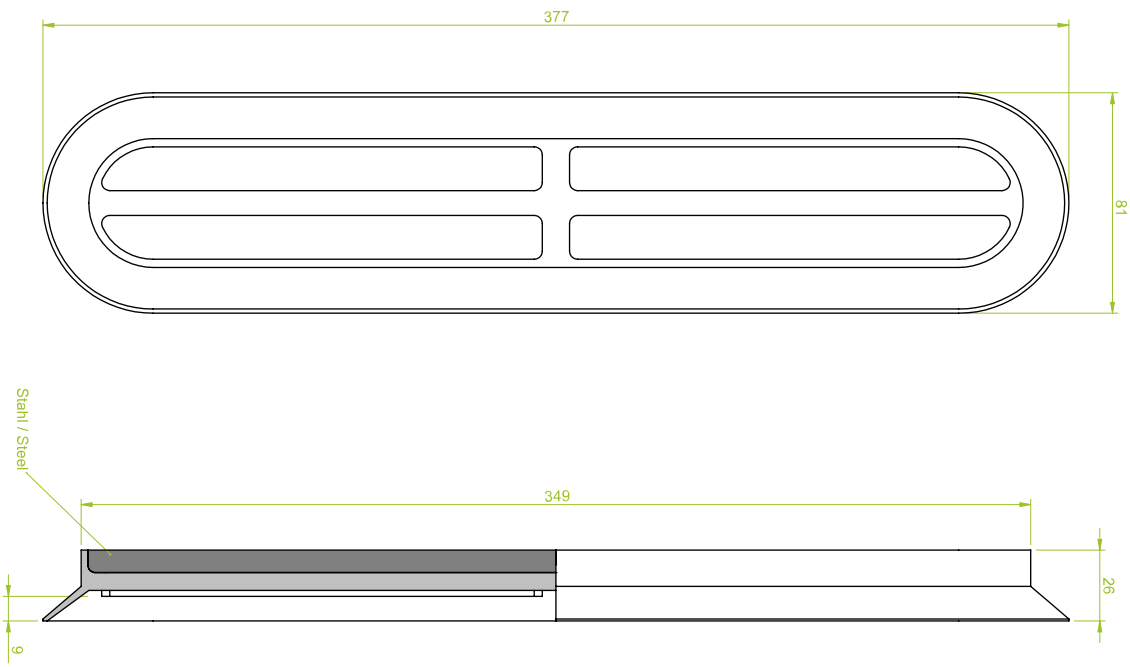
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

1.5mm	380g

35.370070.042._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

10mm	550g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

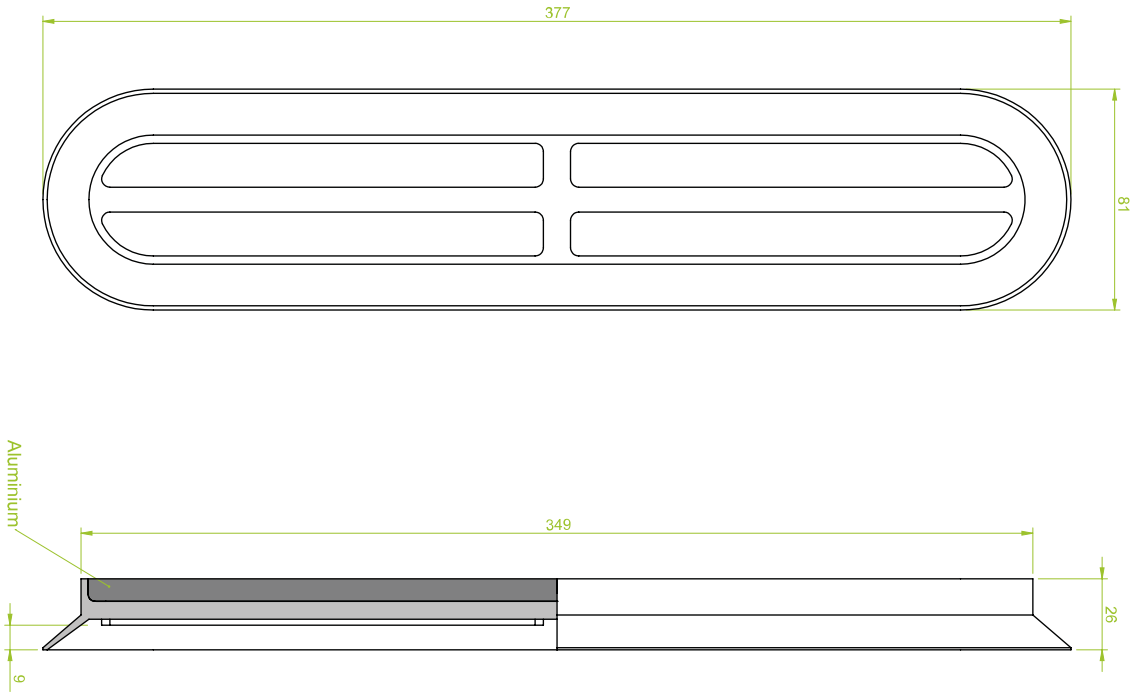
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

377
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.370070.043._

vulkanisiert

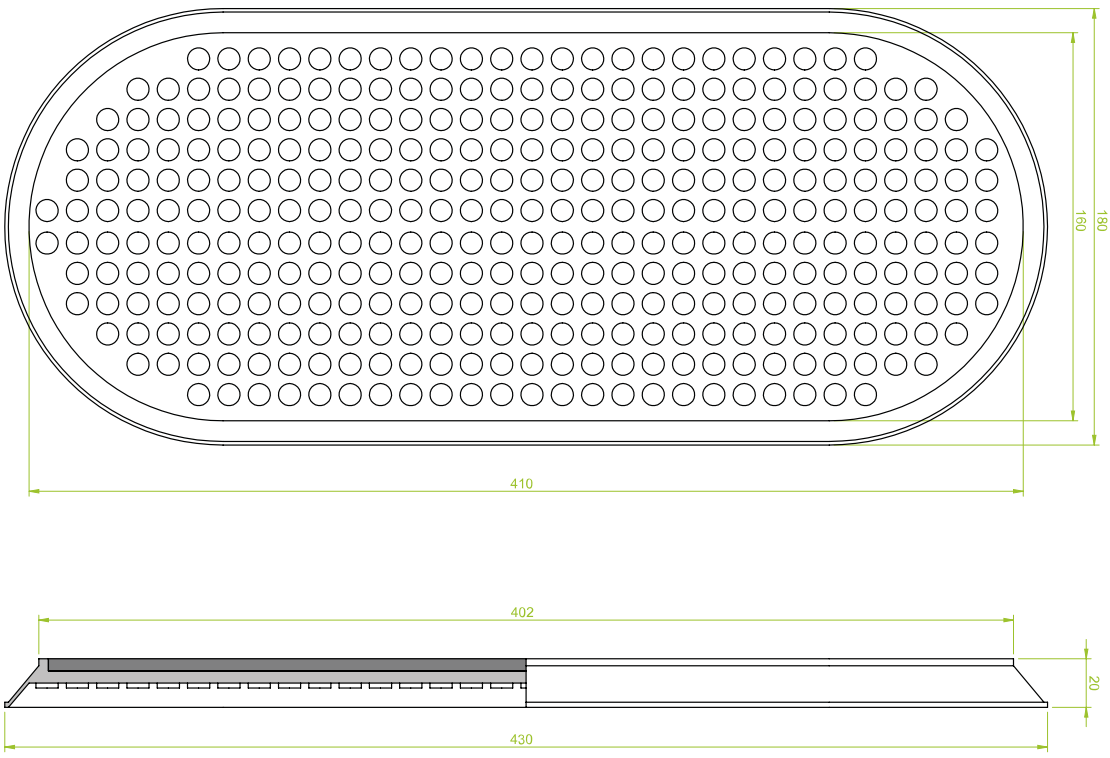


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
10mm	300g

35.430180.003._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
6mm	3720g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

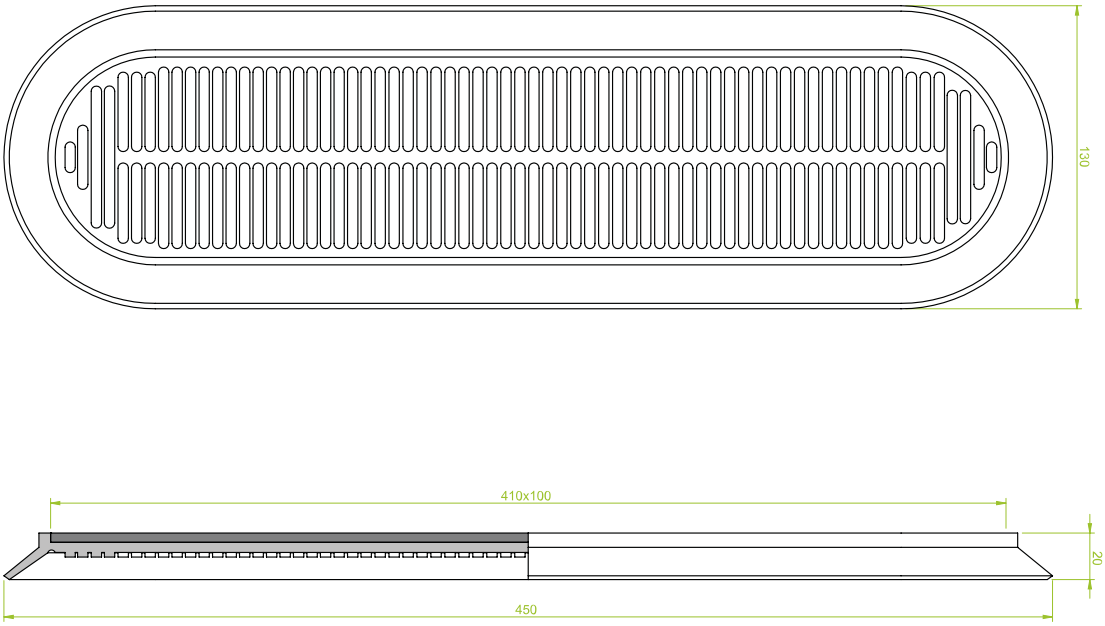
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.450130.002._

vulkanisiert



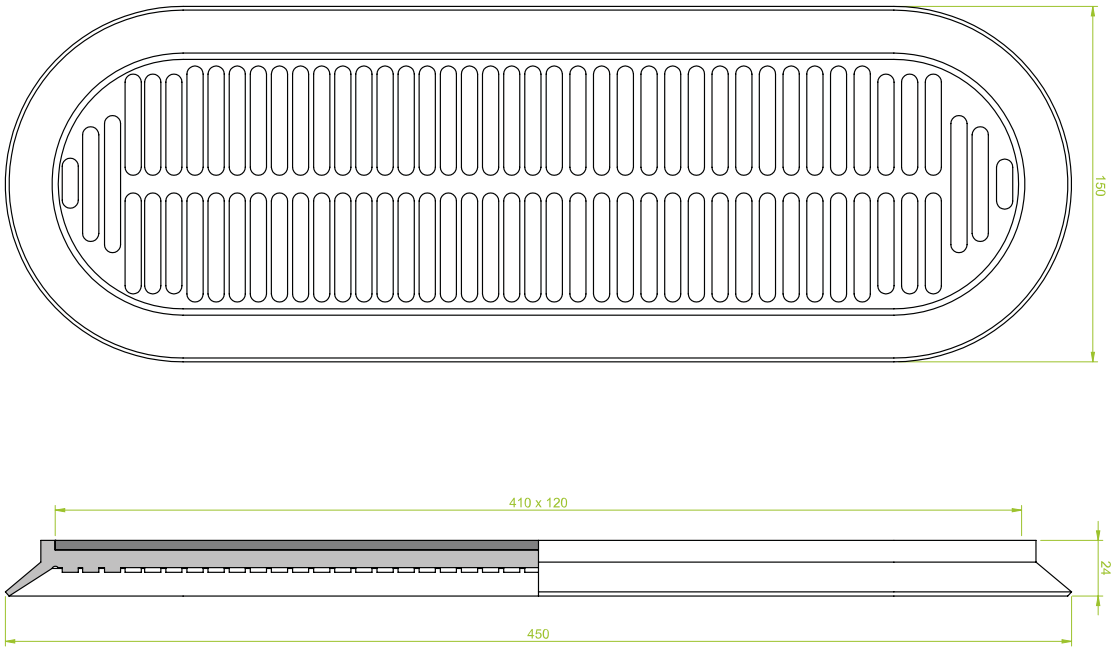
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

6mm	2400g

35.450150.008._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

9mm	2560g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

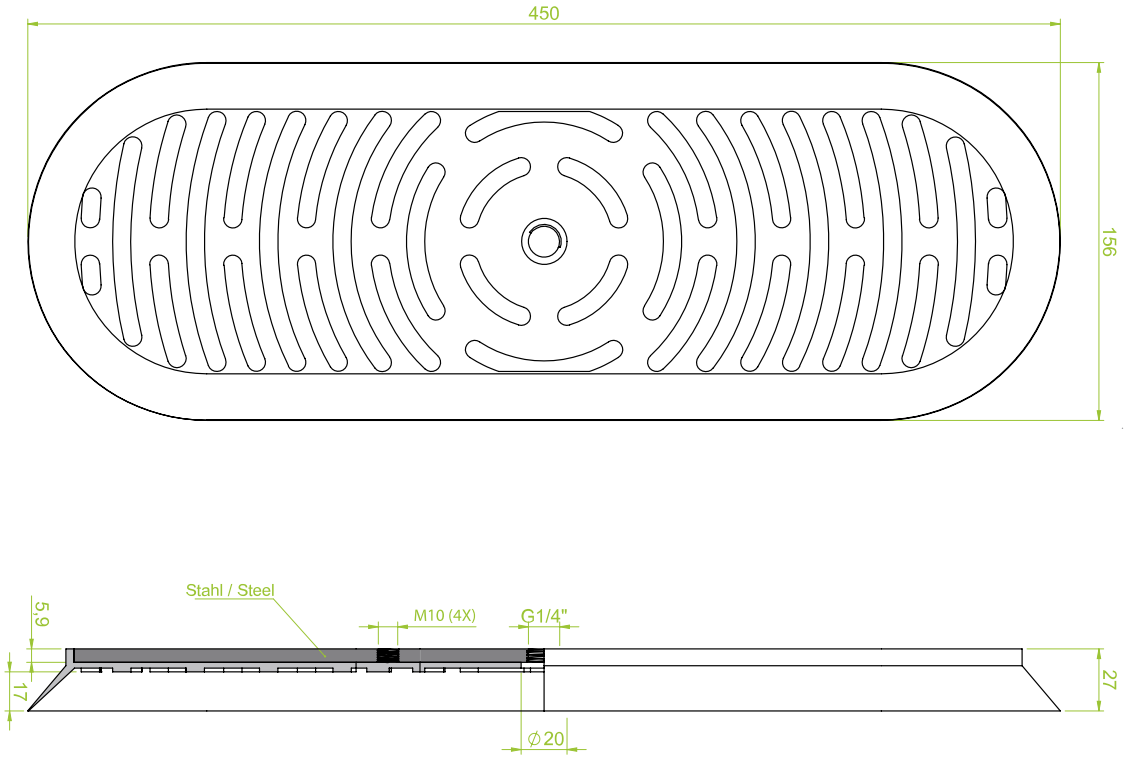
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

33.450156.035._

vulkanisiert



Materialcode
03 NR

Halter *Fitting*	Gewinde *Thread*

4mm	3830g

35.470060.044._

vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

0mm	1030g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

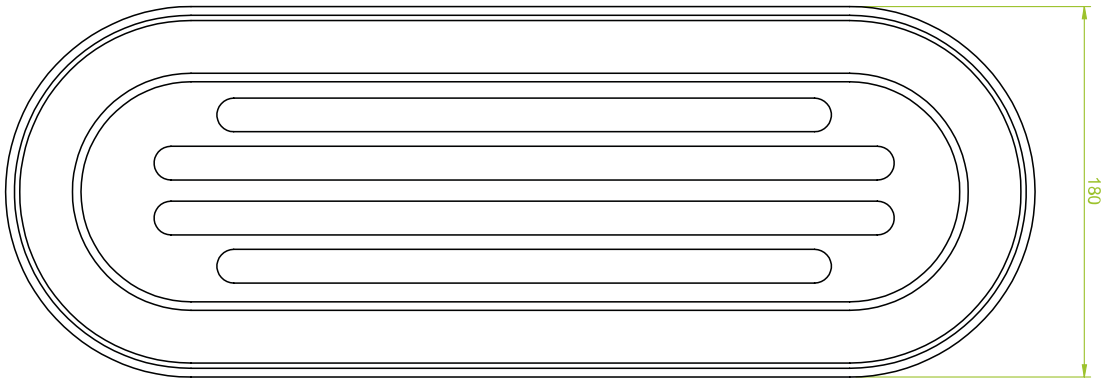
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

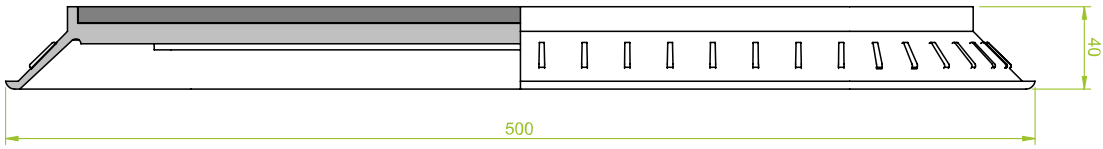
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.500180.046._

vulkanisiert



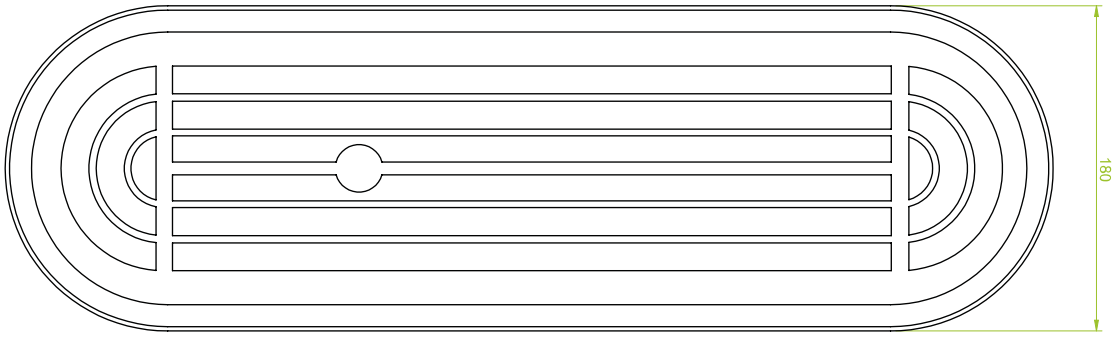


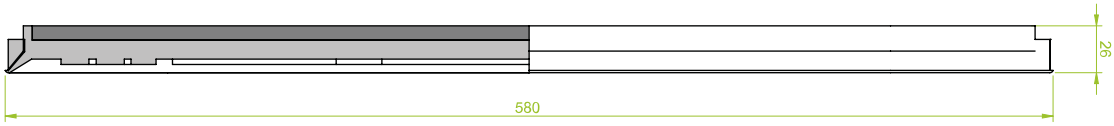
Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
21mm	3500g

35.580180.048._

vulkanisiert





Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
10mm	3500g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

381
Oval-Rechteck-Flachsauger I *Oval Rectangular Flat cups*

35.750200.049._

vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
29mm	3500g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

Aufbau & Ausführungen | *Structure & Versions*

Ohne Anschlussteil
Without fitting
40.



40.025008.011._
Abmessungen: 25 x 8 mm

Inkl. Anschluss, vulkanisiert, Innengewinde
Incl. vulcanized fitting, female thread
43.



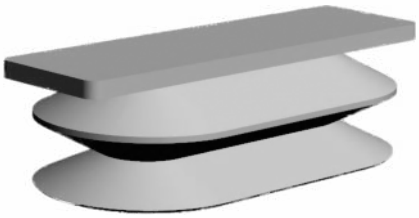
43.097055.001._
Abmessungen: 97 x 55 mm

Inkl. Anschluss, vulkanisiert, Aussengewinde *Incl. vulcanized fitting, male thread*
44.



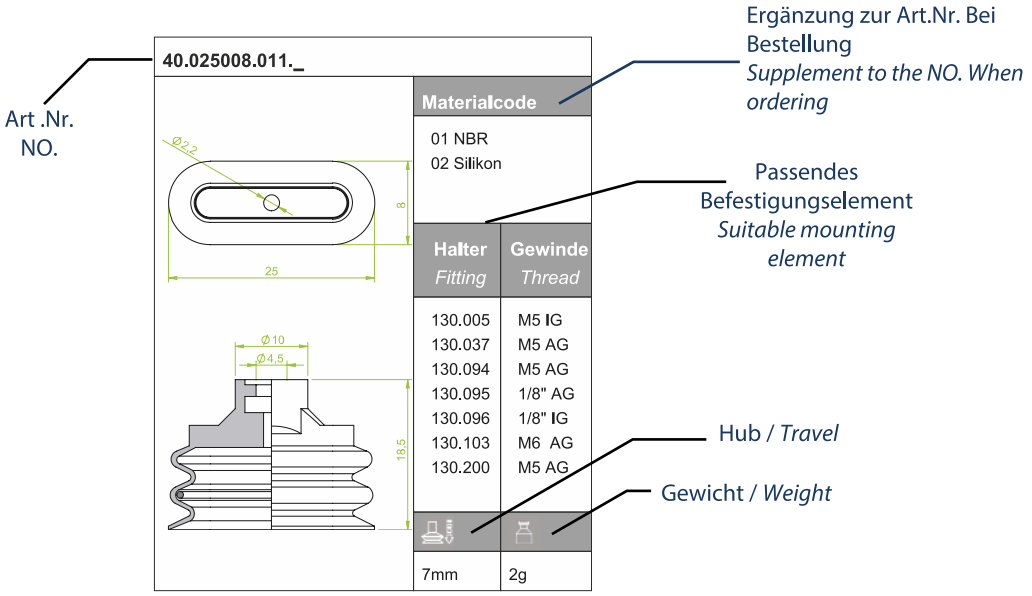
44.050025.001._
Abmessungen: 50 x 25 mm

Vulkanisiert, ohne Gewinde/Bohrung
Vulcanized, without thread/hole
45.



45.200100.001._
Abmessungen: 200 x 8 mm

Example: Oval- Rechteck- Balgensauger ohne Anschlussteil 25 x 8 mm, verfügbar in den Materialien NBR und Silikon.
Oval rectangular bellow cups without fitting 25 x 8 mm, *available in the materials NBR and silicone.*

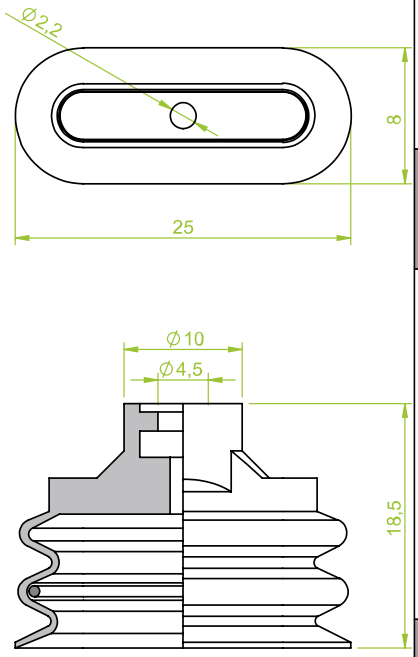


Eigenschaften der Saugermaterialien auf Seite 24 | *Properties of vacuum cup materials at page* 24

MORALI VACTEC SYSTEMS
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

40.025008.011._

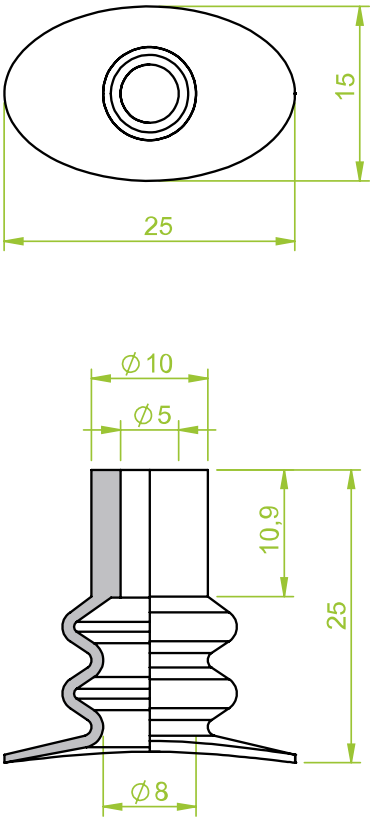


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.005	M5 IG
130.037	M5 AG
130.094	M5 AG
130.095	1/8" AG
130.096	1/8" IG
130.103	M6 AG
130.200	M5 AG

7mm	2g

40.025015.010._

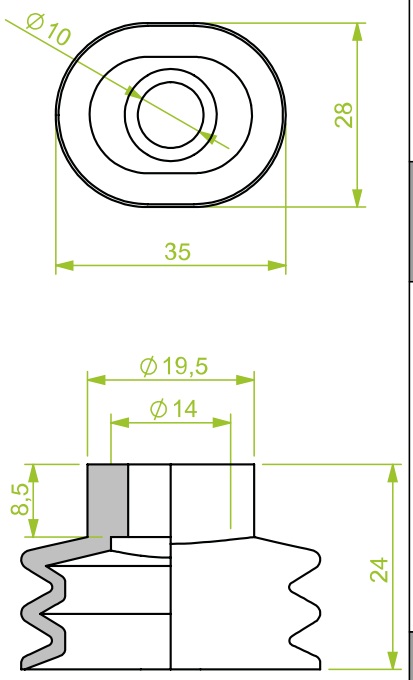


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.003	1/8" AG
130.015	1/8" IG
130.023	M5 AG
130.109	1/8" IG
130.238	1/8" AG

10mm	2.7g

40.035028.017._

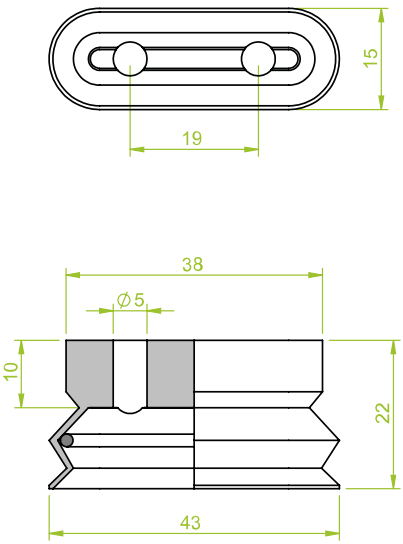


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.046	1/4" IG
130.048	1/4" AG

9mm	7g

40.043015.018._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.013	M5 AG

8.5mm	7g

Morali Produktionstechnik GmbH
Handling technology

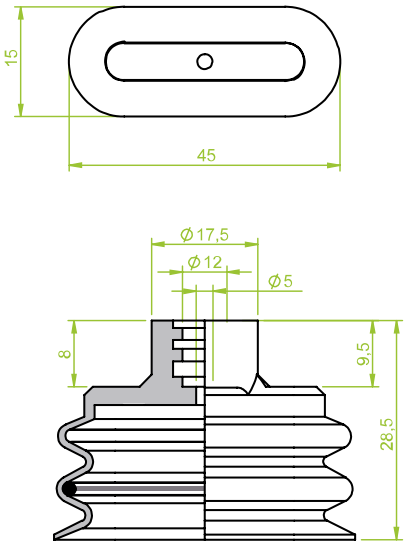
Stadtweg 30
D-78658 Zimmern o.R.

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

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

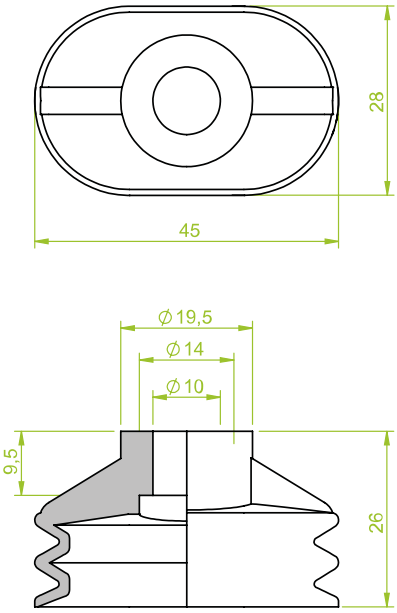
Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

40.045015.012._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.097	1/4" AG
130.098	1/4" IG
130.245	1/4" AG
8.5mm	7g

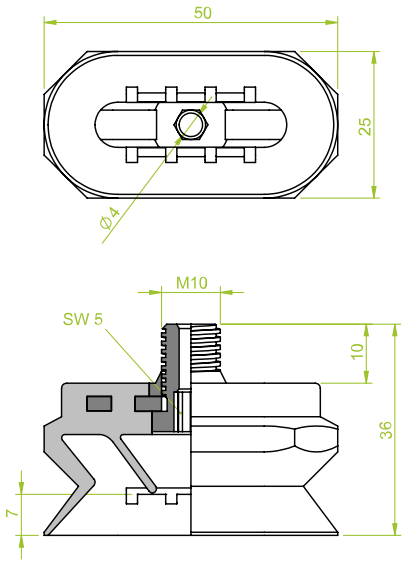
40.045028.019._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
130.046	1/4" IG
130.048	1/4" AG
10mm	8g

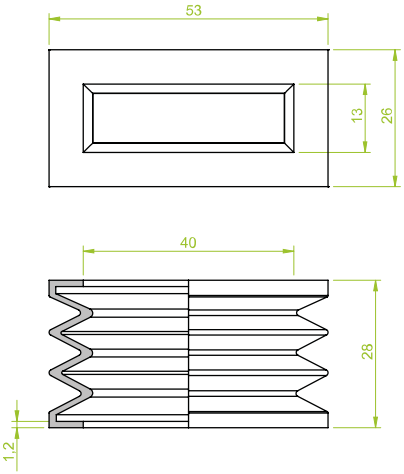
44.050025.001._

vulkanisiert



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
8mm	30g

40.052025.006._



Materialcode	
02 Silikon	
Halter *Fitting*	**Gewinde** *Thread*
13mm	11g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

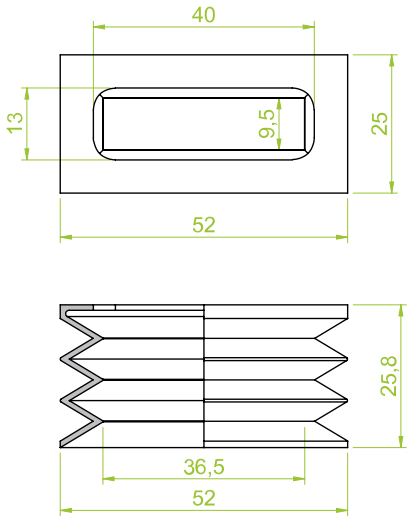
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

40.052025.015._

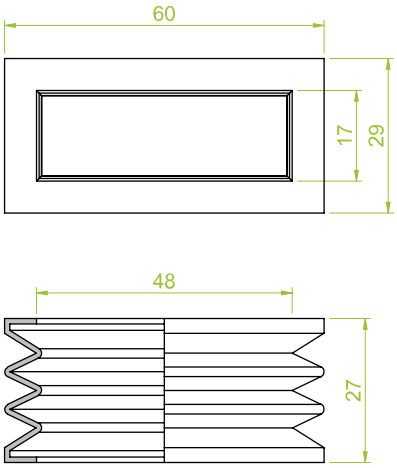


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.584 130.631	1/4" IG 3/8" IG

19mm	7.3g

40.060021.020._

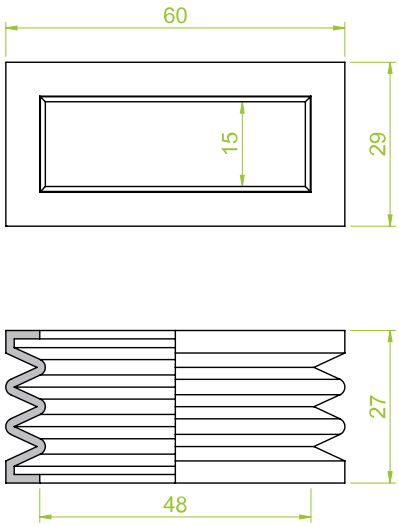


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.585 130.632	1/4" IG 3/8" IG

18mm	10.7g

40.060029.007._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.585 130.632	1/4" IG 3/8" IG

13mm	12g

43.060030.101._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

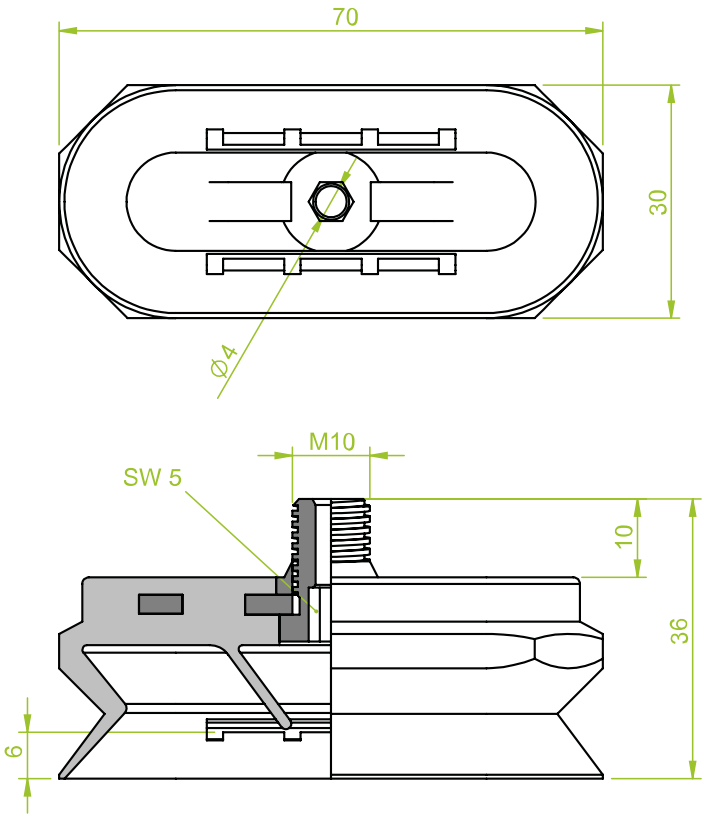
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

44.070030.002._

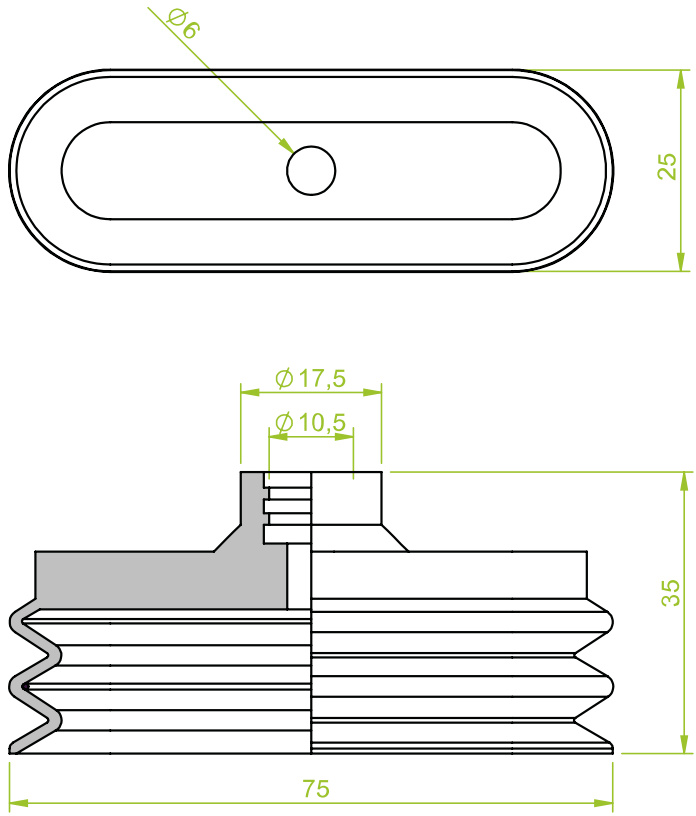
vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
8mm	42g

40.075025.013._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.097 130.098 130.245	1/4" AG 1/4" IG 1/4" AG
10.5mm	20g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

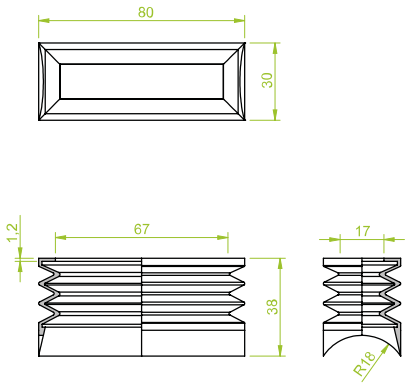
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

40.079029.008._

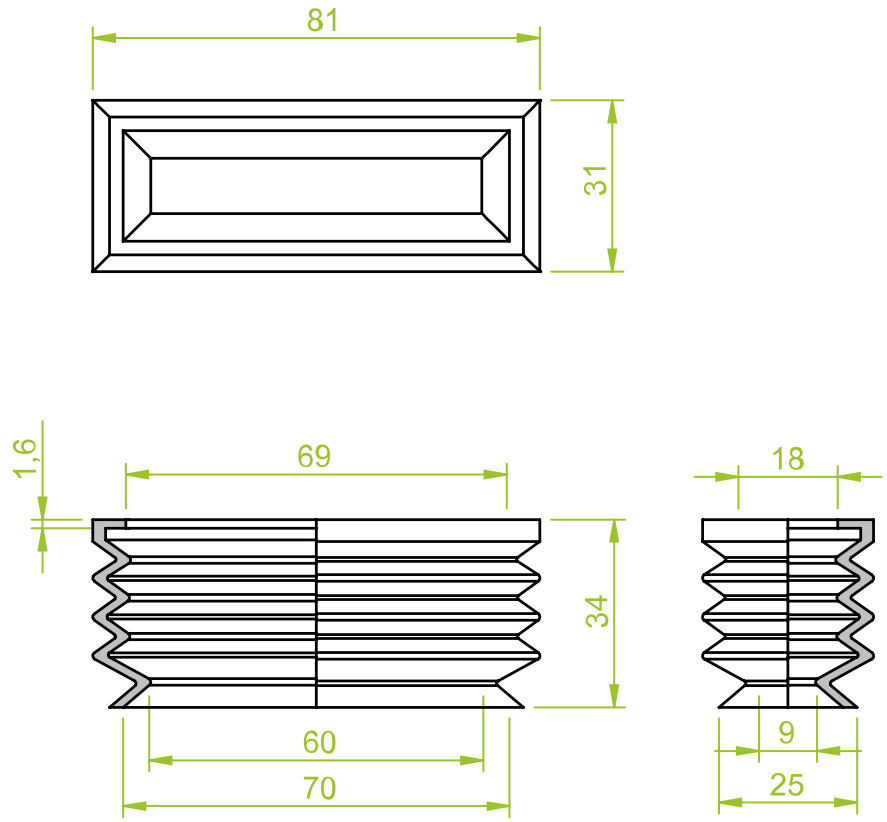


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	g

40.080030.003._



Materialcode
02 Silikon

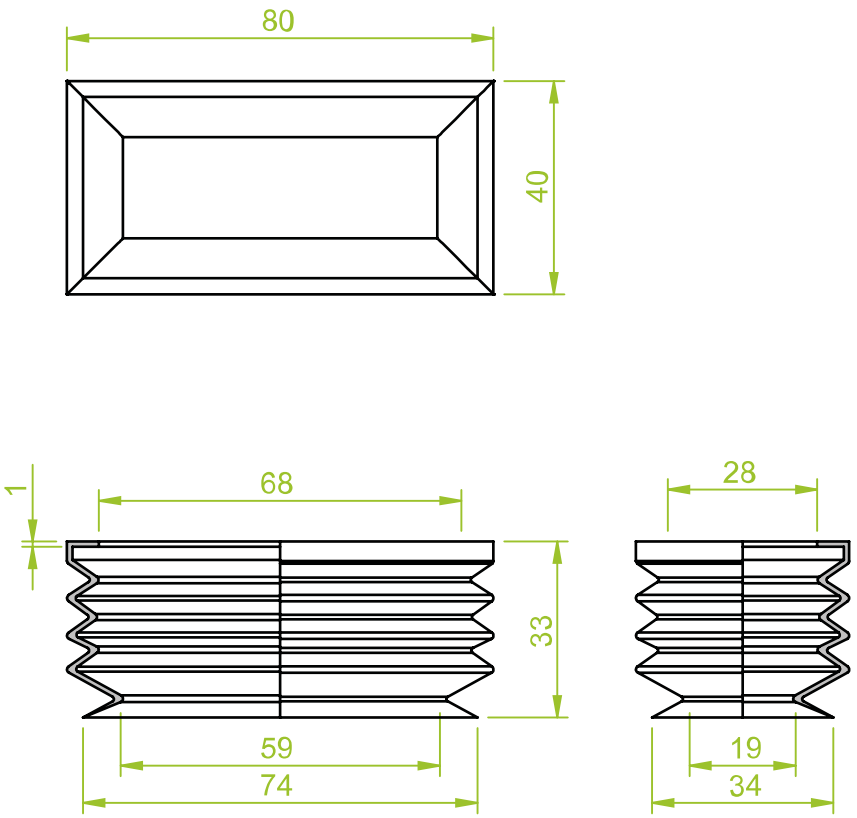
Halter *Fitting*	Gewinde *Thread*

20mm	19g

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

40.080040.001._



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
20mm	20g

43.080040.102._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
mm	0g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

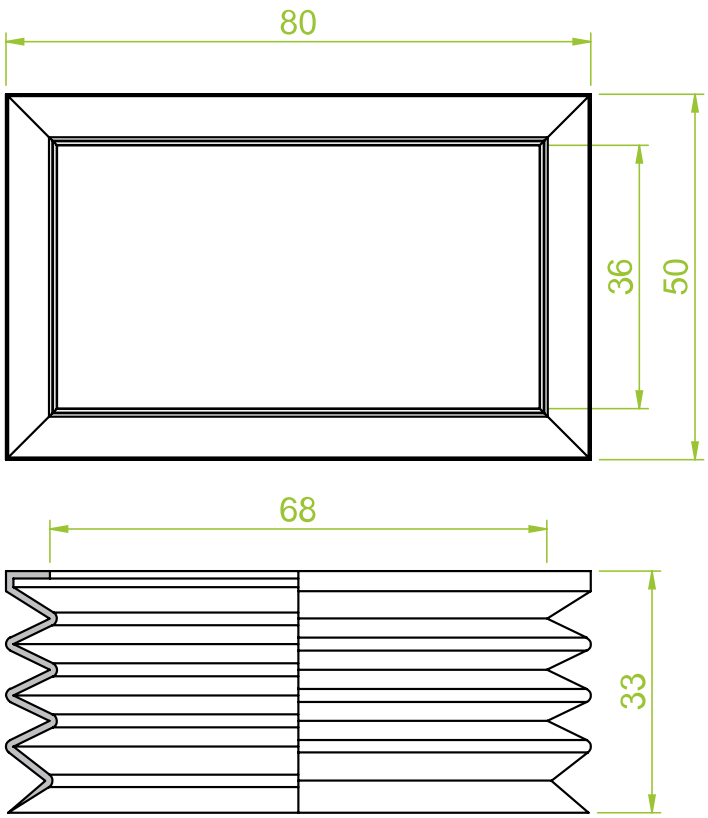
Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

40.080050.004._

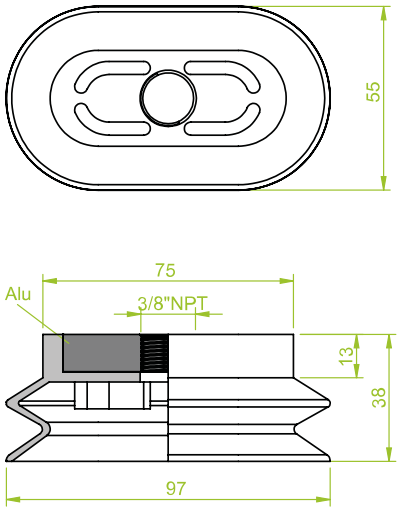


Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
130.624	1/4" IG

20mm	23g

43.097055.001._ vulkanisiert



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

11mm	91g

43.100050.103._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*

mm	0g

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

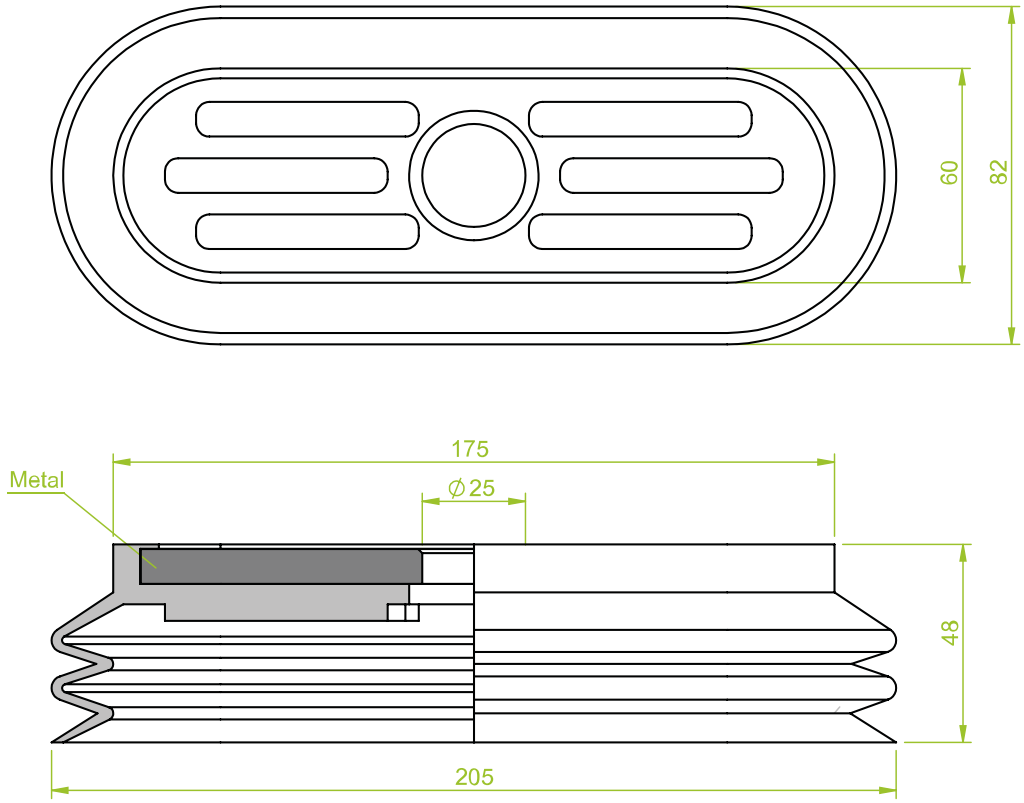
Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

43.140070.104._

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
mm	0g

45.205082.003._ **vulkanisiert**



Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
25mm	260g

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

Oval-Rechteck-Balgensauger I *Oval Rectangular Bellow cups*

45.350100.006._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
39mm	1280g

45.400200.008._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
39mm	0g

45.400200.009._ vulkanisiert

Materialcode
02 Silikon

Halter *Fitting*	Gewinde *Thread*
39mm	0g

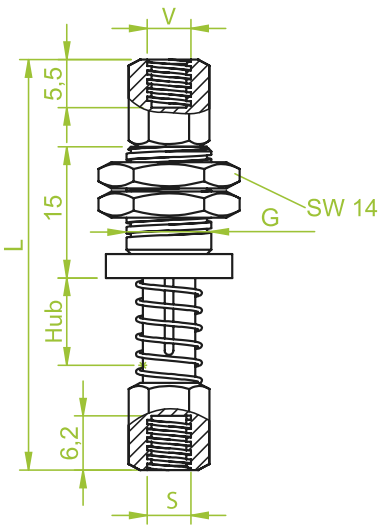
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Gefederte Saugerträger | *Spring-loaded cup holders*



- Zur Direktmontage von Saugern
- Sehr gute Dämpfungseigenschaften
- Mit oder ohne Vedrehschutz
- 4 Versionen mit Federweg 10 mm / 20 mm

- *To the direct assembly of suction cups*
- *Very good damping qualities*
- *With or without non rotating*
- *4 versions with travel 10 / 20 mm*



Art.	○ V	● S		G	L	VS*	VEA**
80.149	IG M5	IG M5	10 mm	G 1/8“	47 mm	–	GK.09.900
80.150	IG M5	IG M5	20 mm		59 mm		
80.152	IG M5	IG M5	10 mm		47 mm	Ja / yes	
80.153	IG M5	IG M5	20 mm		59 mm		

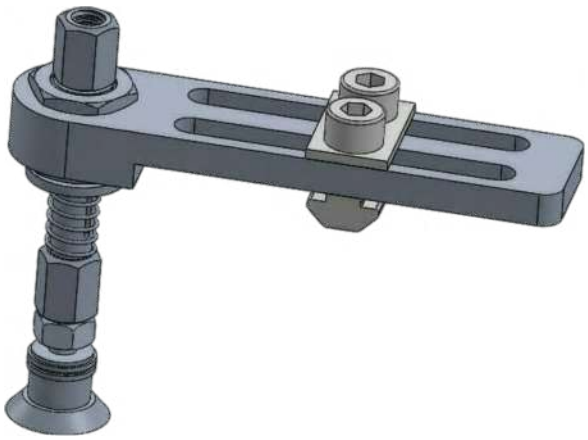
Kombinationsmöglichkeiten | combination possibilities:

80.149

130.134
(AG M5)

10.015.031.





○ Vakuumanschluss | Vacuum connection ● Saugeranschluss | Cups connection * Verdrehsicherung | Anti-twist-lock

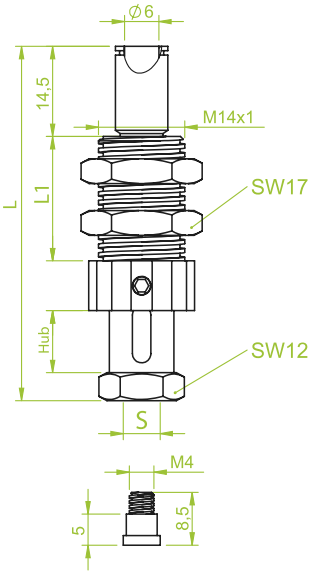
** Verbindungselemente für Aluprofile | Screw joint for aluminium profiles

Gefederte Saugerträger | *Spring-loaded cup holders*



- Zur Direktmontage von Sauggreifern
- Mit oder ohne Verdrehschutz
- Inkl. Steckanschluss 6 mm
- 6 Versionen mit Federweg 10/ 15 / 20 mm

- *To the direct assembly of vacuum pads*
- with or without non rotating
- incl. Plug-in-connection 6 mm
- 6 versions with spring excursion 10 / 15 / 20 mm



Art.	○V	●S		G	L	L1	VS*	VEA**
80.125	6 mm	IG M4	10 mm	M14 x 1	57 mm	20	–	–
80.126	6 mm	IG M4	15 mm	M 14 x 1	67 mm	25	–	–
80.127	6 mm	IG M4	20 mm	M 14 x 1	83 mm	34	–	–
80.128	6 mm	IG M6	10 mm	M 14 x 1	59 mm	20	Ja/Yes	–
80.129	6 mm	IG M6	15 mm	M 14 x 1	69 mm	25	Ja/Yes	–
80.130	6 mm	IG M6	20 mm	M 14 x 1	85 mm	34	Ja/Yes	–

Kombinationsmöglichkeiten | combination possibilities :

80.130

+

130.039 (AG M6)

+

10.030.050.



○ Vakuumanschluss | Vacuum connection ● Saugeranschluss | Cups connection * Verdrehsicherung | Anti-twist-lock

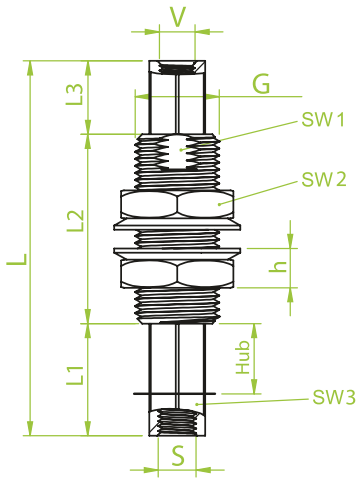
** Verbindungselemente für Aluprofile | Screw joint for aluminium profiles

Gefederte Saugerträger | *Spring-loaded cup holders*



■ Zur Direktmontage von Vakuumsaugern
· Sehr gute Dämpfungseigenschaften
· Inkl. Verdrehschutz
· 3 Versionen mit Federweg 15 / 25 / 35 mm

■ *To the direct assembly of suction cups*
· Very good damping qualities
· With anti rotating
· 3 versions with spring travel 15/ 25/ 35 mm



Art.	○ V	● S		G	L	L1	L2	L3	VS*	*VEA***
80.523	IG M5	IG M5	15 mm	M 12 x 1	53,5	16	27	10,5	Ja/Yes	GK.09.900
80.524	IG 1/8“	IG 1/8“	25 mm	M 16 x 1	82	27	40	15		GK.09.901
80.525	IG 1/4“	IG 1/8“	35 mm	M 20 x 1,5	123	45	60	18		GK.09.902

Kombinationsmöglichkeiten | combination possibilities:

80.525

+

130.181 (AG 1/8“ / AG 1/4“)

+

130.179 (IG 1/4“)

+

10.070.023.





○ Vakuumanschluss | Vacuum connection ● Saugeranschluss | Cups connection * Verdrehsicherung | Anti-twist-lock

** Verbindungselemente für Aluprofile | Screw joint for aluminium profiles

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

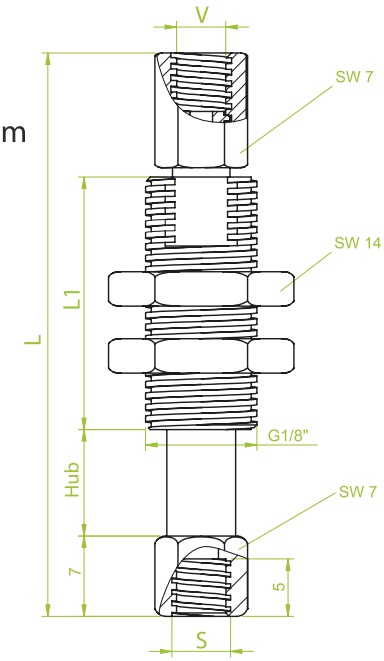
Email: info@morali-gmbh.de
www.morali-gmbh.de

Gefederte Saugerträger | *Spring-loaded cup holders*



- Zur Direktmontage von Sauggreifern
- Sehr gute Dämpfungseigenschaften
- Mit und ohne Verdrehschutz
- 8 Versionen mit Federweg 7 /10 /20 /40 mm

- *To the direct assembly of suction pads*
- Very good damping qualities
- with or without non rotating
- 8 versions of travel 7/ 10/ 20/ 40 mm



Art.	○V	●S		G	L	L1	VS*	VEA**
80.120	IG M5	IG M5	7 mm	G1/8“	43	19	–	GK.09.900
80.530	IG M5	IG M5	10 mm		49	22		
80.531	IG M5	IG M5	20 mm		76	39		
80.532	IG M5	IG M5	40 mm		121	64		
80.533	IG M5	IG M5	7 mm		42	18	Ja/Yes	
80.534	IG M5	IG M5	10 mm		49	22		
80.535	IG M5	IG M5	20 mm		73,5	39		
80.536	IG M5	IG M5	40 mm		118,5	64		

80.533

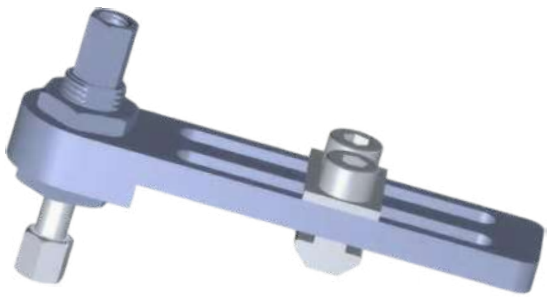
+

130.094 (M5 AG)

+

30.030010.020.





○ Vakuumanschluss | Vacuum connection ● Saugeranschluss | Cups connection * Verdrehsicherung | Anti-twist-lock

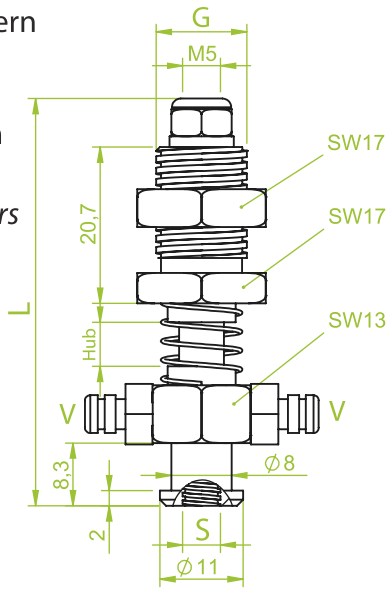
** Verbindungselemente für Aluprofile | Screw joint for aluminium profiles

Gefederte Saugerträger | *Spring-loaded cup holders*



- Zur Direktmontage von Vakuumsaugern
- Keine Verdrehschutz
- Vakuumanschlüsse seitlich
- 3 Versionen mit Federweg 5 / 15 / 30 mm

- *To the direct assembly of vacuum suckers*
- No protection against torsion
- Vacuum connection laterally
- 3 versions with travel 5/ 15/ 30 mm



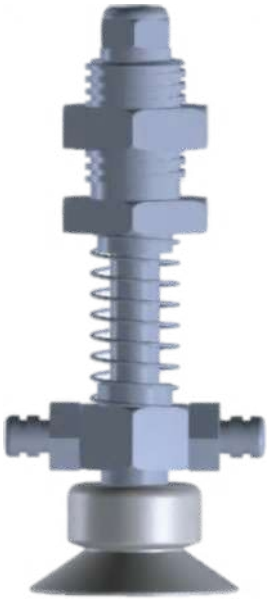
Art.	○V	●S		G	L	VS*	VEA**
80.527	2 x Ø 4,9	IG M5	5 mm	M12	54	–	–
80.528	2 x Ø 4,9	IG M5	15 mm	M12	64	–	
80.529	2 x Ø 4,9	IG M5	30 mm	M12	84	–	

Kombinationsmöglichkeiten | combination possibilities:

80.528

+

10.025.587.



○ Vakuumanschluss | Vacuum connection ● Saugeranschluss | Cups connection * Verdrehsicherung | Anti-twist-lock

** Verbindungselemente für Aluprofile | Screw joint for aluminium profiles

MORALI VACTEC SYSTEMS

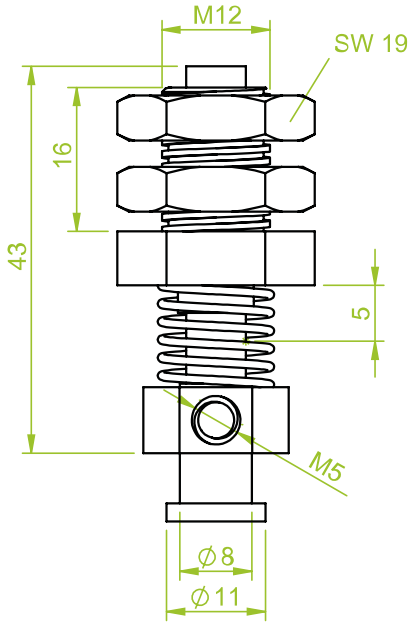
Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

80.005



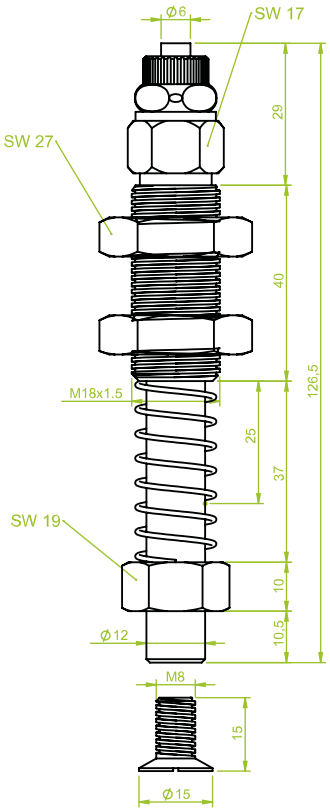
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5

Verdrehsicherung *Anti-twist lock*
-

5.0mm

Länge | Length
51.0mm

80.009



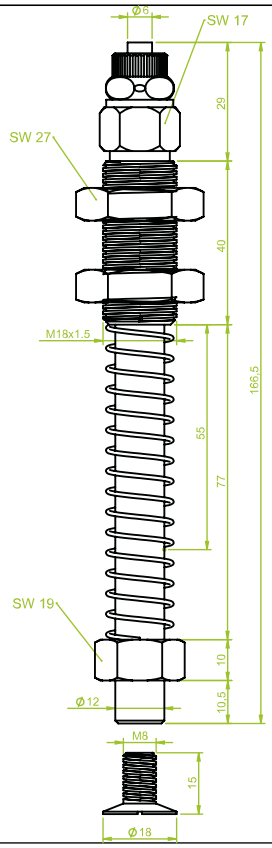
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	

Verdrehsicherung *Anti-twist lock*
-

25.0mm

Länge | Length
126.5mm

80.010



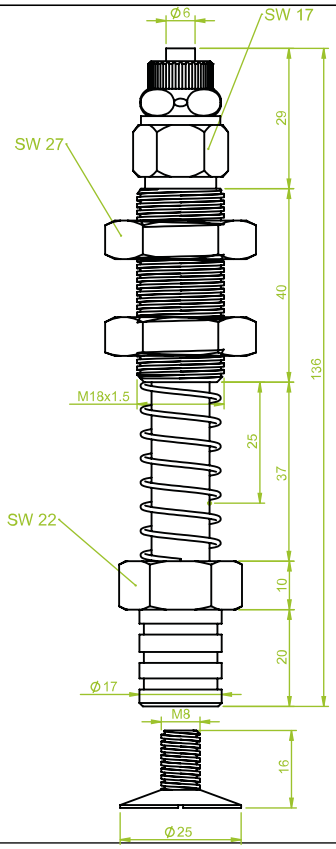
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	

Verdrehsicherung *Anti-twist lock*
-

55.0mm

Länge | Length
166.5mm

80.012



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	6

Verdrehsicherung *Anti-twist lock*
-

25.0mm

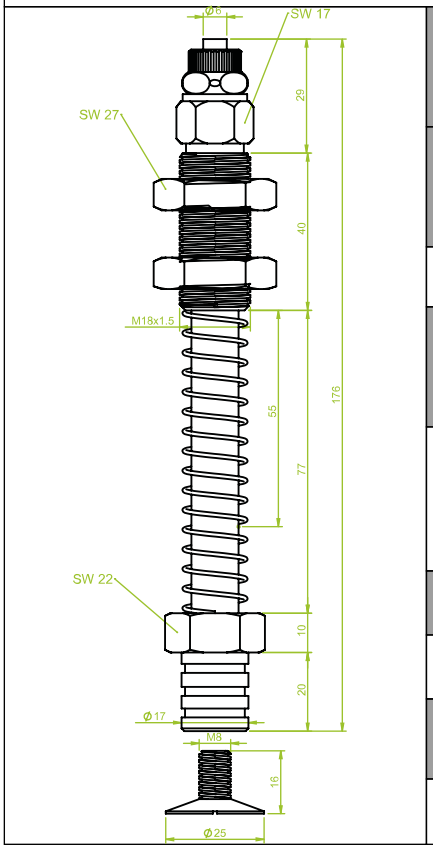
Länge | Length
136.0mm

* Steckanschluss auf Anfrage erhältlich | *Plug connection available on request*

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Federstößel | *Spring levelers*

80.013



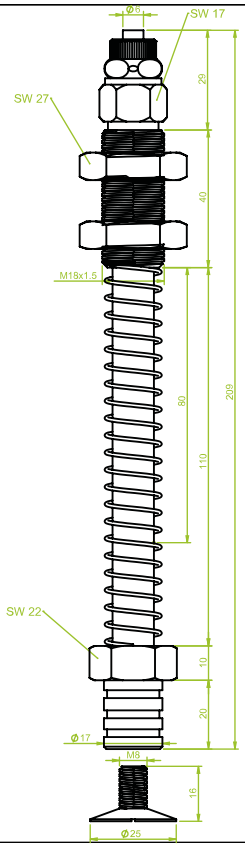
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	6

Verdrehsicherung *Anti-twist lock*
-

55.0mm

Länge | Length
176.0mm

80.014



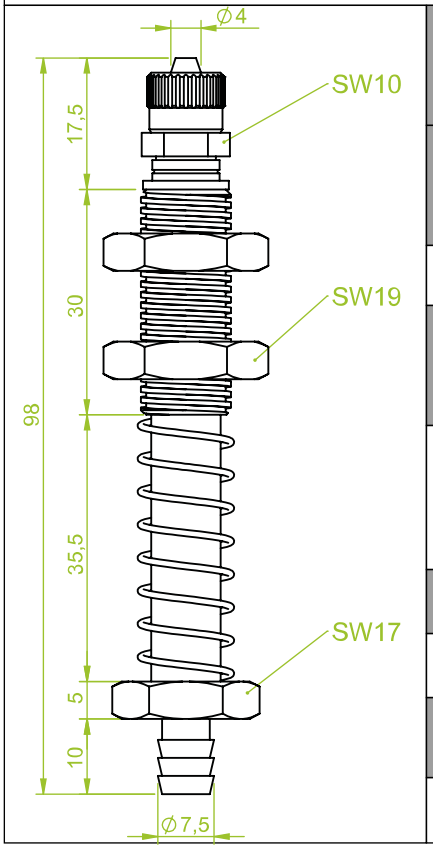
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	6

Verdrehsicherung *Anti-twist lock*
-

80.0mm

Länge | Length
209.0mm

80.039



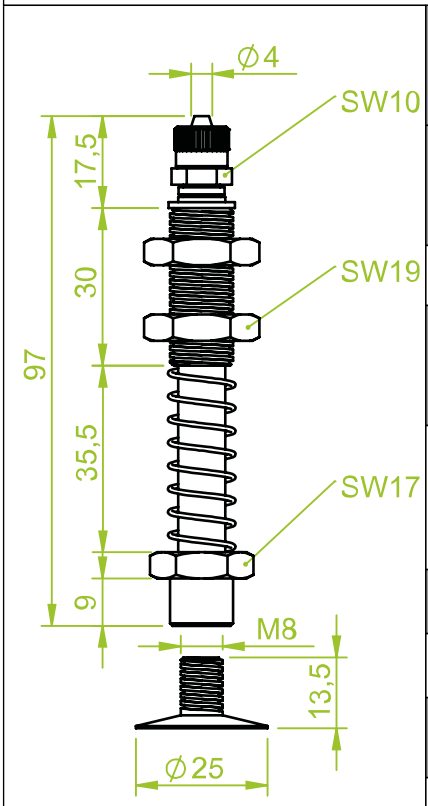
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
7	4

Verdrehsicherung *Anti-twist lock*
-

25.0mm

Länge | Length
98.0mm

80.044



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	4

Verdrehsicherung *Anti-twist lock*
-

25.0mm

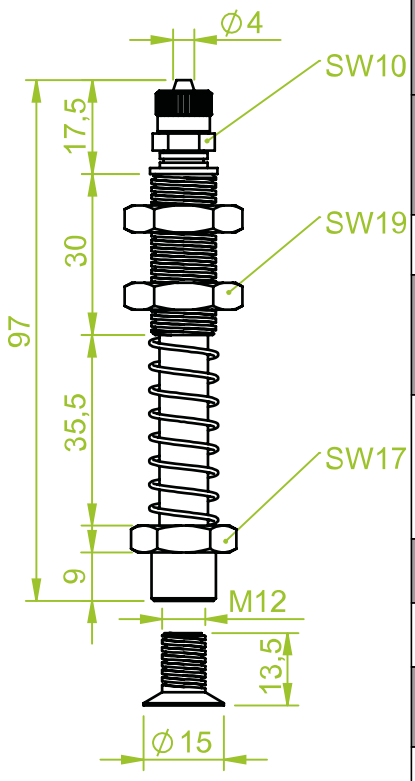
Länge | Length
97.0mm

* Steckanschluss auf Anfrage erhältlich |*P lug conne c tion a vailable on re que s t*

MORALI VACTEC SYSTEMS

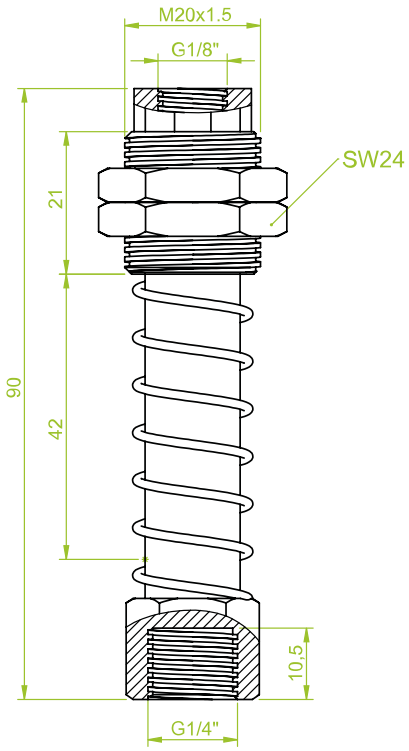
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

80.045



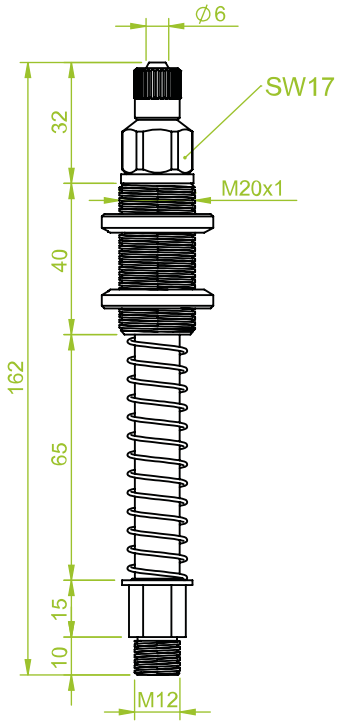
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M8	4
Verdrehsicherung *Anti-twist lock*	
-	
25.0mm	
Länge | Length	
97.0mm	

80.050



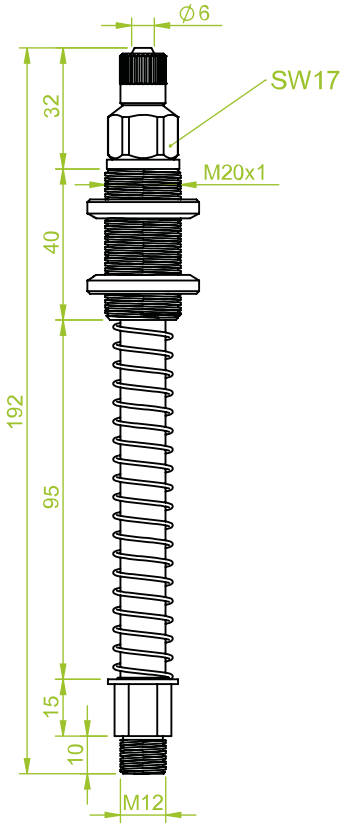
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/4	IG 1/8
Verdrehsicherung *Anti-twist lock*	
-	
42.0mm	
Länge | Length	
90.0mm	

80.052



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG M12	6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
49.0mm	
Länge | Length	
162.0mm	

80.053

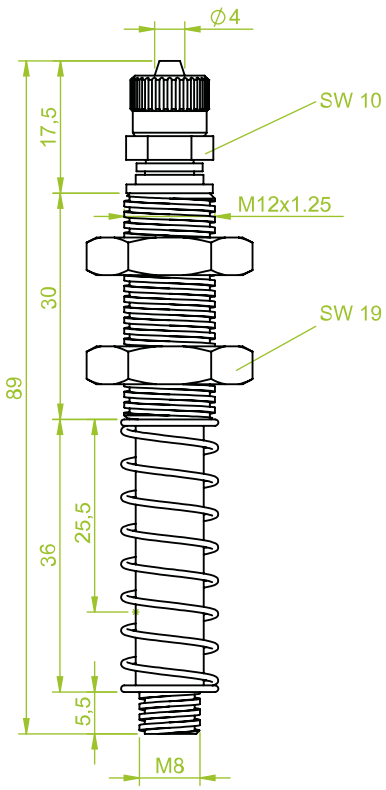


Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG M12	6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
74.0mm	
Länge | Length	
192.0mm	

* Steckanschluss auf Anfrage erhältlich | *Plug connection available on request*

Federstößel | *Spring levelers*

80.054



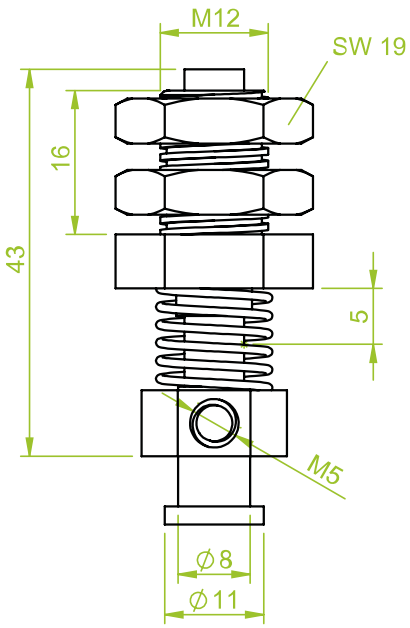
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG M8	4

Verdrehsicherung *Anti-twist lock*
Ja | Yes

26.0mm

Länge | Length
89.0mm

80.055



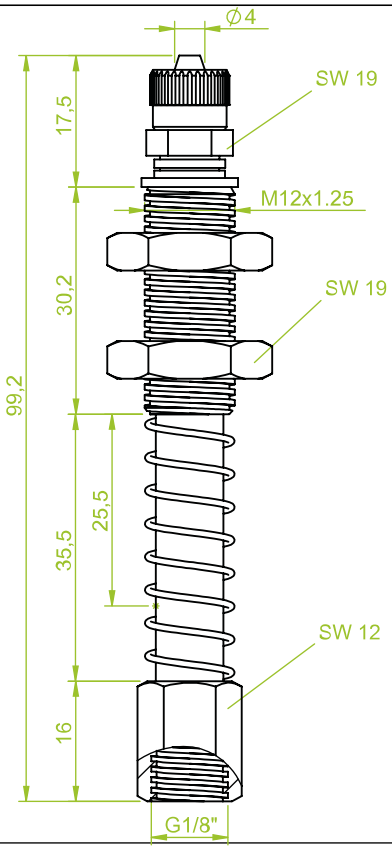
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG 1/8	4

Verdrehsicherung *Anti-twist lock*
Ja | Yes

26.0mm

Länge | Length
96.0mm

80.056



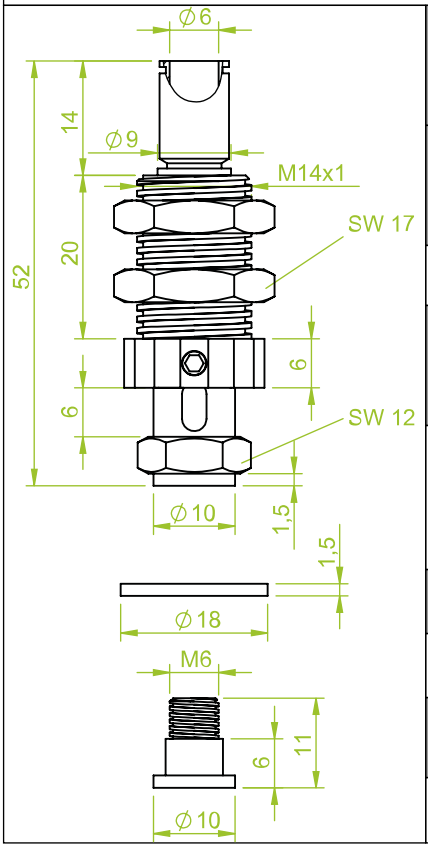
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/8	4

Verdrehsicherung *Anti-twist lock*
Ja | Yes

26.0mm

Länge | Length
99.2mm

80.085



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M6	6

Verdrehsicherung *Anti-twist lock*
Ja | Yes

6.0mm

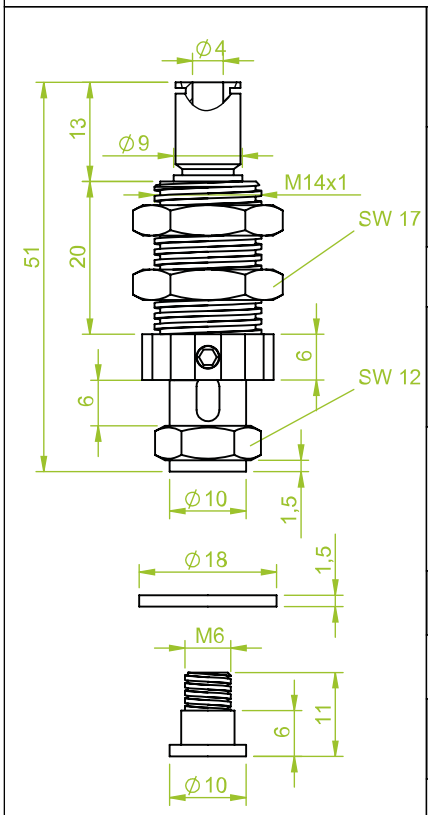
Länge | Length
58.0mm

* Steckanschluss auf Anfrage erhältlich |*P lug conne c tion a vailable on re que s t*

MORALI VACTEC SYSTEMS

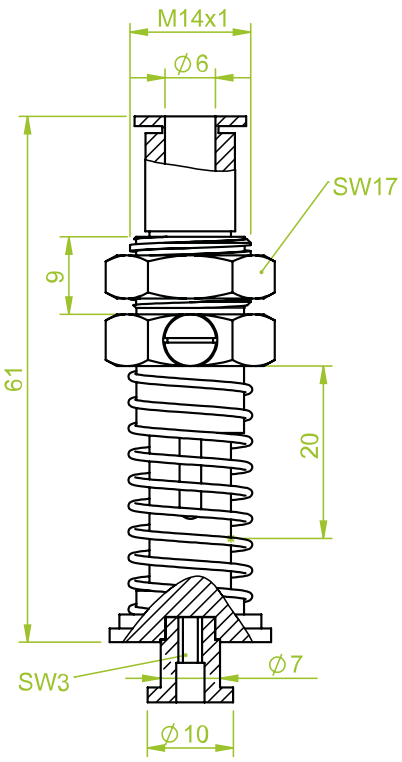
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

80.086



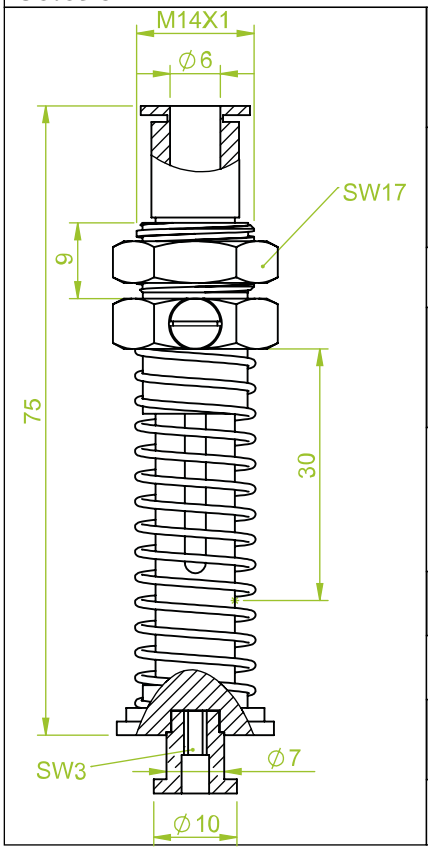
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M6	4
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
	6.0mm
Länge | Length	
58.0mm	

80.095



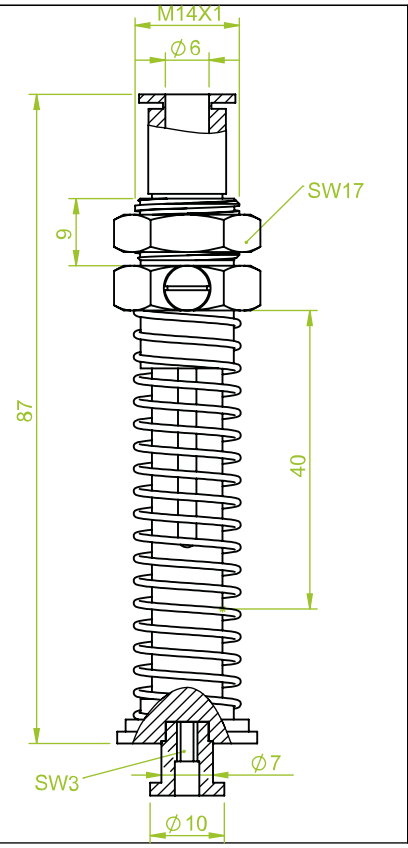
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
6	IG M6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
	20.0mm
Länge | Length	
61.0mm	

80.096



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
6	IG M6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
	30.0mm
Länge | Length	
75.0mm	

80.097



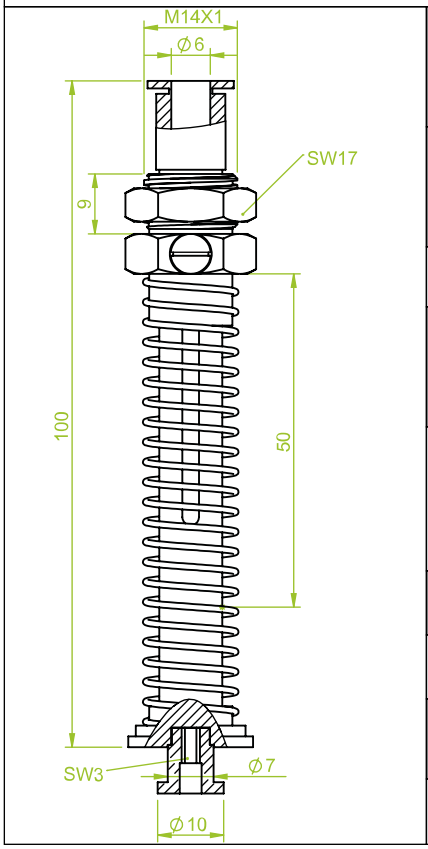
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
6	IG M6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
	40.0mm
Länge | Length	
87.0mm	

* Steckanschluss auf Anfrage erhältlich | *Plug connection available on request*

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

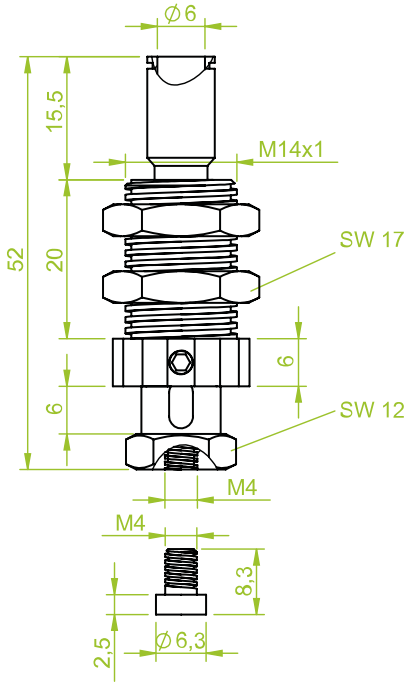
Federstößel | *Spring levelers*

80.098



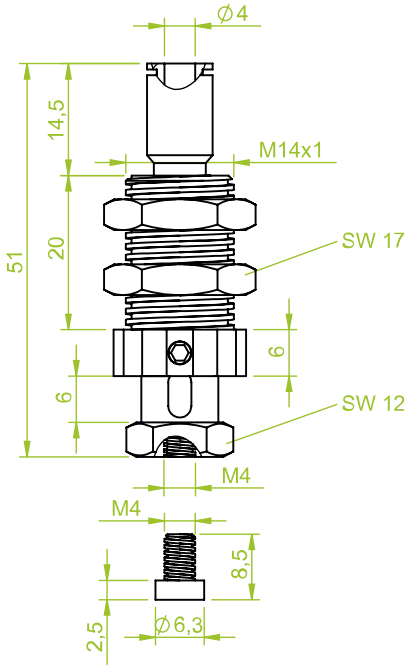
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
6	IG M6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
50.0mm	
Länge | Length	
100.0mm	

80.103



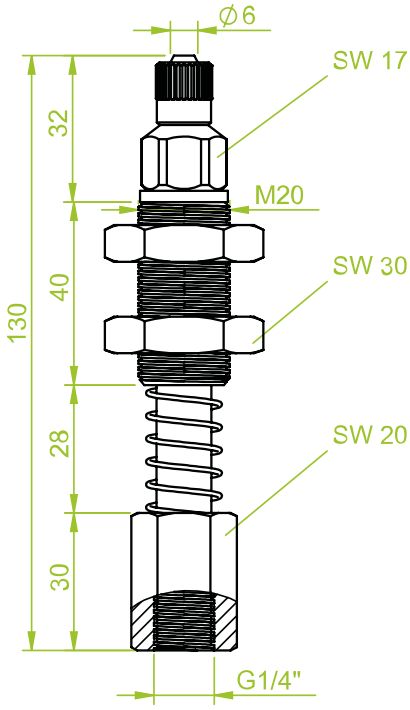
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M4	6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
6.0mm	
Länge | Length	
54.5mm	

80.104



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M4	4
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
6.0mm	
Länge | Length	
53.5mm	

80.105



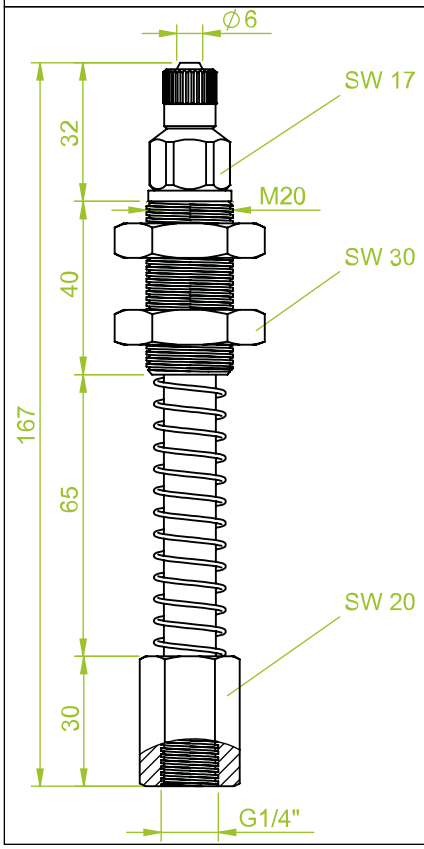
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/4	6
Verdrehsicherung *Anti-twist lock*	
-	
16.0mm	
Länge | Length	
130.0mm	

* Steckanschluss auf Anfrage erhältlich |*P lug conne c tion a vailable on re que s t*

MORALI VACTEC SYSTEMS

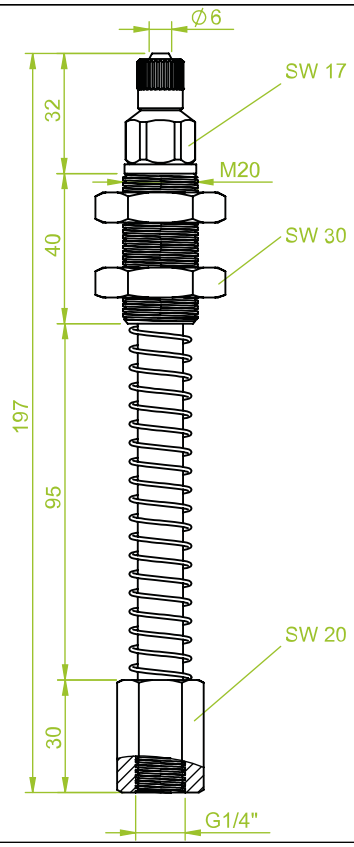
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

80.106



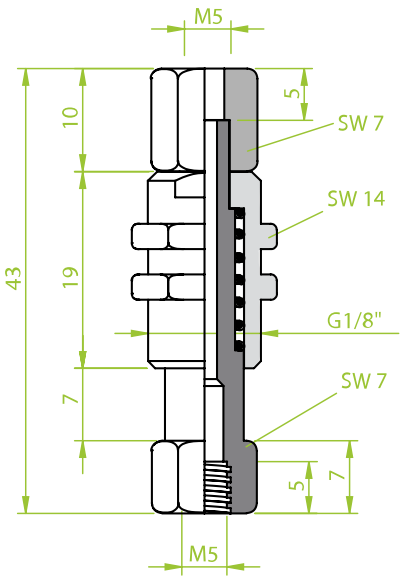
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/4	6
Verdrehsicherung *Anti-twist lock*	
-	
49.0mm	
Länge | Length	
167.0mm	

80.107



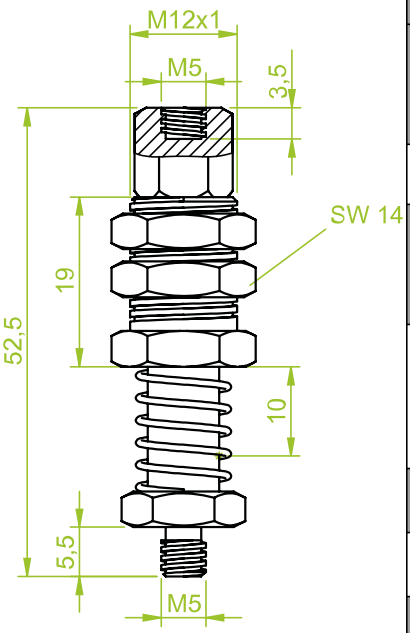
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/4	6
Verdrehsicherung *Anti-twist lock*	
-	
74.0mm	
Länge | Length	
197.0mm	

80.120



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
7.0mm	
Länge | Length	
43.0mm	

80.121

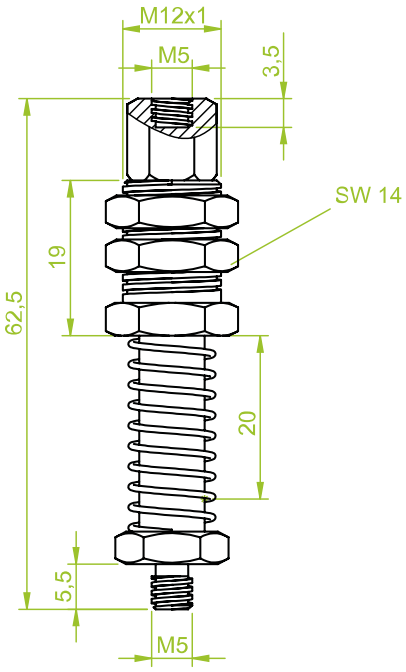


Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
10.0mm	
Länge | Length	
52.5mm	

* Steckanschluss auf Anfrage erhältlich | *P lug conne c tion a vailable on re que s t*

Federstößel | *Spring levelers*

80.122



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5

Verdrehsicherung *Anti-twist lock*

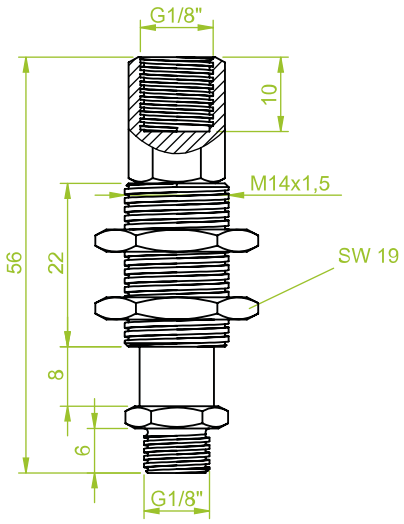
-

20.0mm

Länge | Length

62.5mm

80.123



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG 1/8	IG 1/8

Verdrehsicherung *Anti-twist lock*

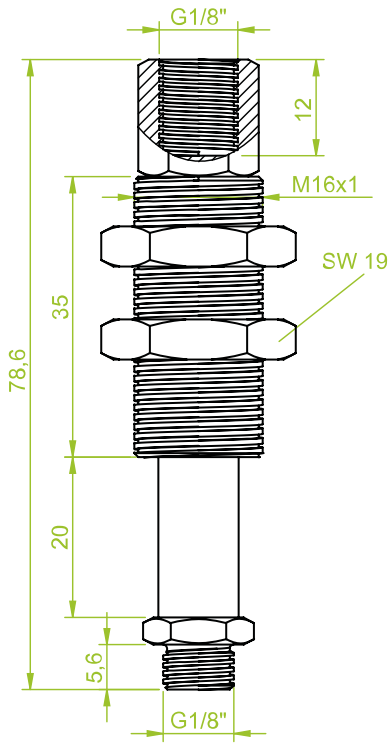
-

8.0mm

Länge | Length

54.0mm

80.124



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG 1/8	IG 1/8

Verdrehsicherung *Anti-twist lock*

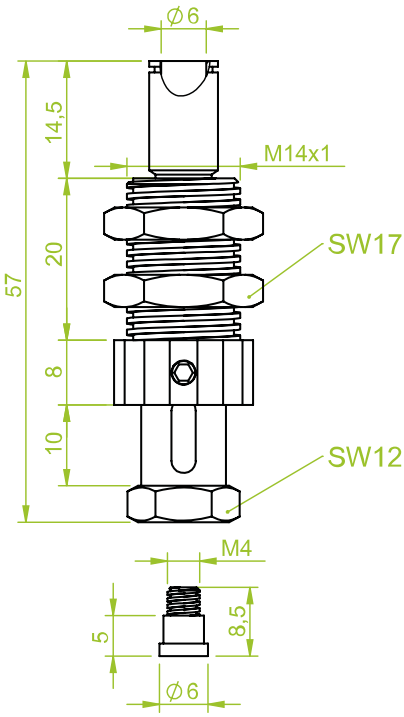
-

20.0mm

Länge | Length

80.0mm

80.125



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M4	6

Verdrehsicherung *Anti-twist lock*

-

10.0mm

Länge | Length

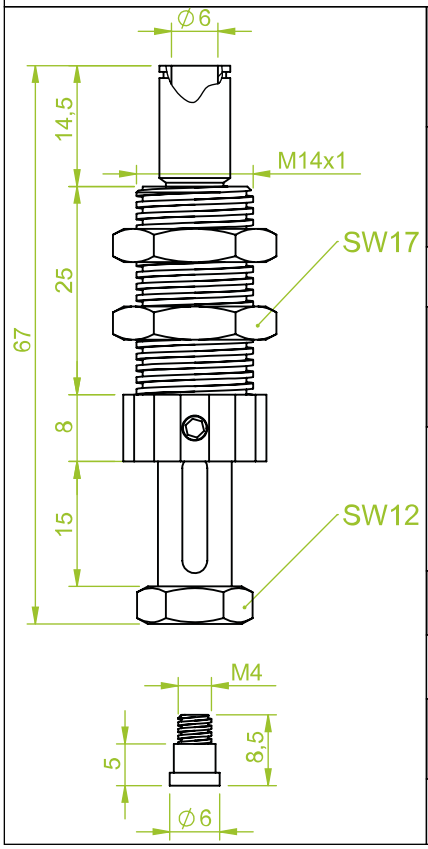
57.0mm

* Steckanschluss auf Anfrage erhältlich |*P lug conne c tion a vailable on re que s t*

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

80.126



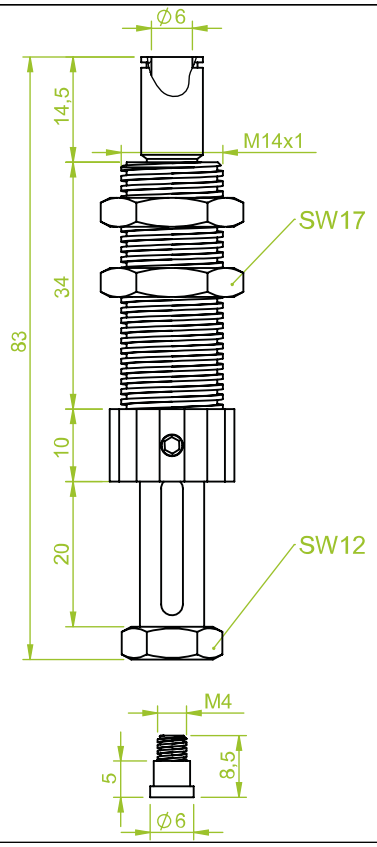
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M4	6

Verdrehsicherung *Anti-twist lock*
-

15.0mm

Länge | Length
67.0mm

80.127



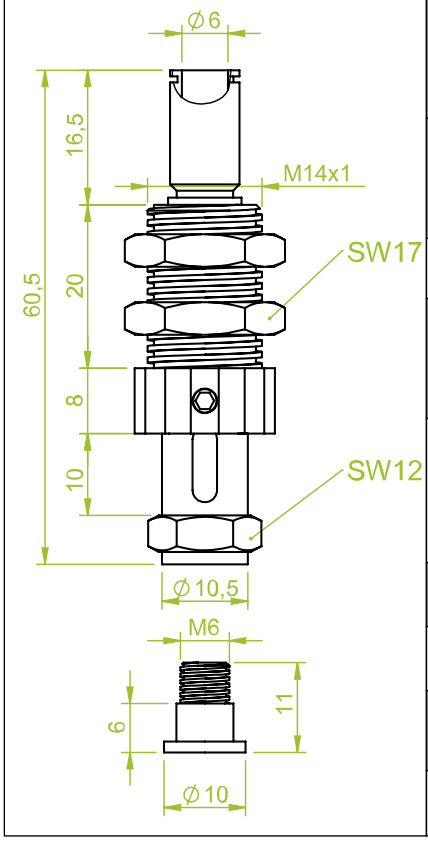
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M4	6

Verdrehsicherung *Anti-twist lock*
-

20.0mm

Länge | Length
83.0mm

80.128



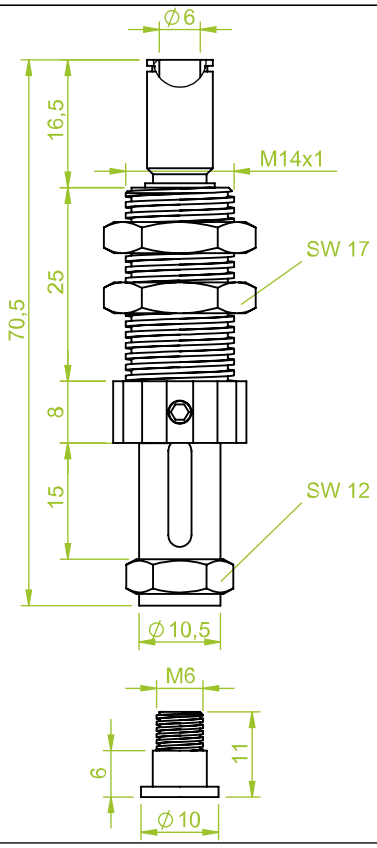
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M6	6

Verdrehsicherung *Anti-twist lock*
Ja | Yes

10.0mm

Länge | Length
59.0mm

80.129



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M6	6

Verdrehsicherung *Anti-twist lock*
Ja | Yes

15.0mm

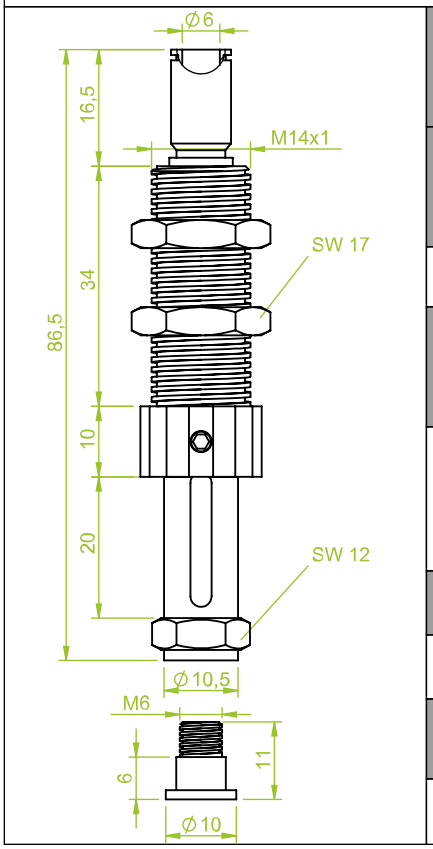
Länge | Length
69.0mm

* Steckanschluss auf Anfrage erhältlich | *P lug conne c tion a vailable on re que s t*

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

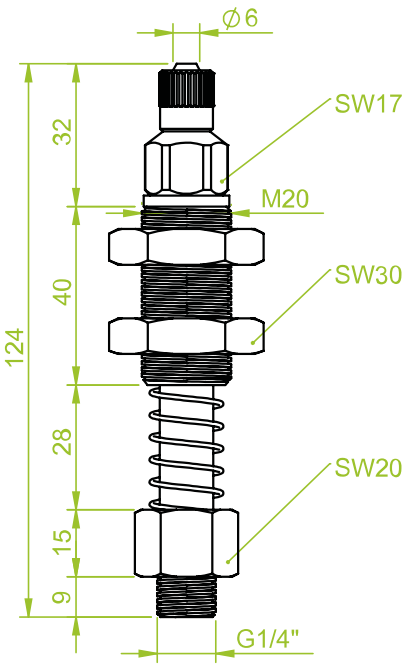
Federstößel | *Spring levelers*

80.130



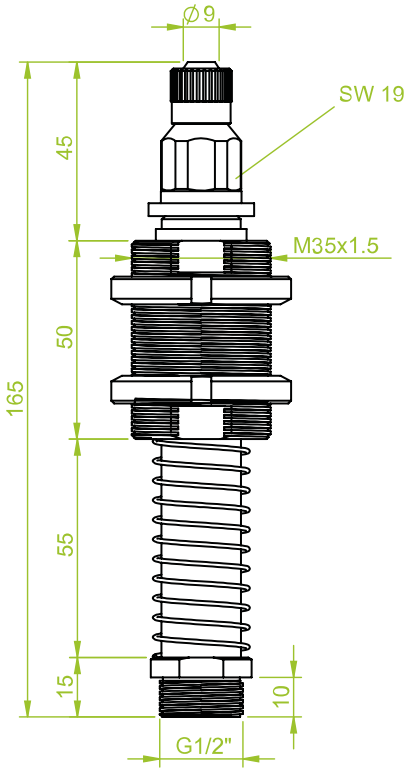
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M6	6
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
20.0mm	
Länge | Length	
85.0mm	

80.131



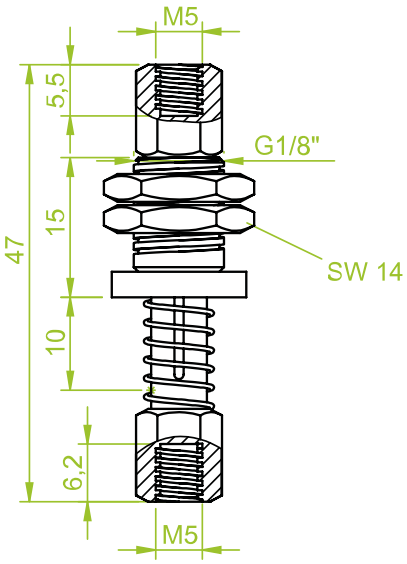
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG 1/4	6
Verdrehsicherung *Anti-twist lock*	
-	
16.0mm	
Länge | Length	
124.0mm	

80.138



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG 1/2	9
Verdrehsicherung *Anti-twist lock*	
-	
37.0mm	
Länge | Length	
165.0mm	

80.149



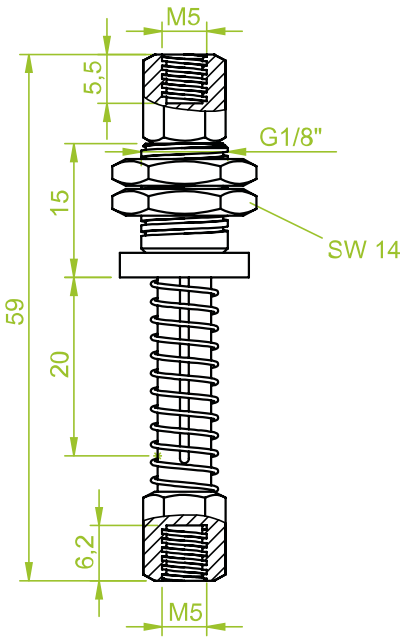
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
10.0mm	
Länge | Length	
47.0mm	

* Steckanschluss auf Anfrage erhältlich |*P lug conne c tion a vailable on re que s t*

MORALI VACTEC SYSTEMS

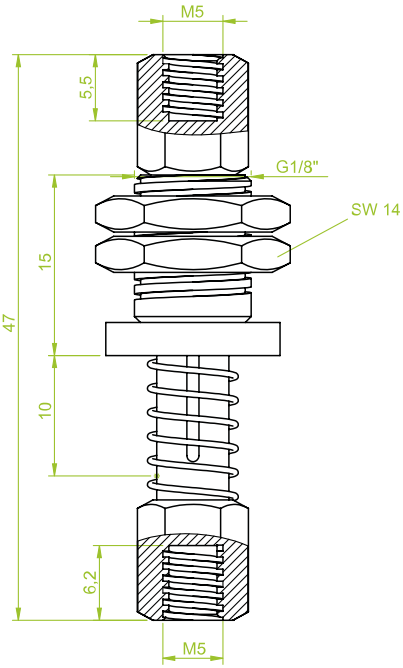
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

80.150



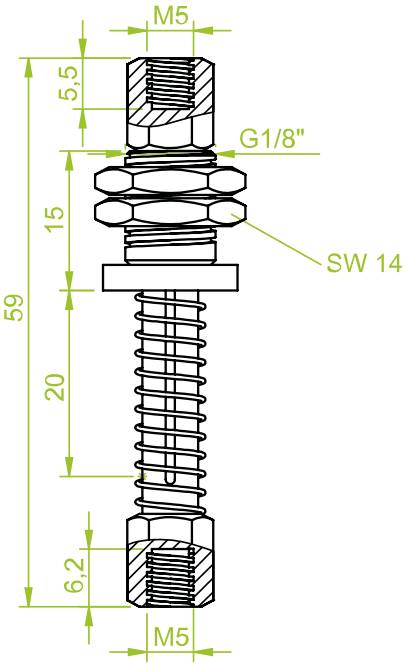
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
20.0mm	
Länge | Length	
59.0mm	

80.152



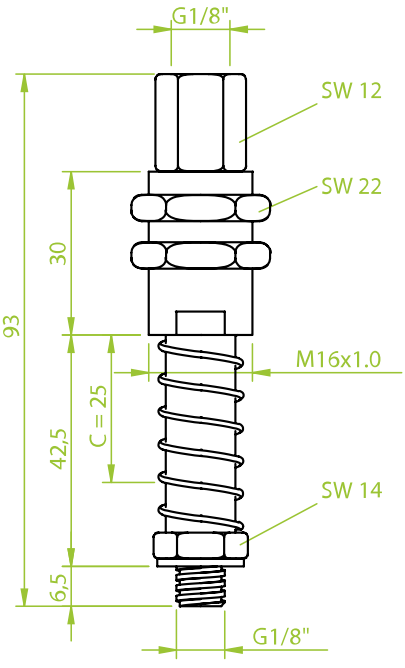
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
10.0mm	
Länge | Length	
47.0mm	

80.153



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
20.0mm	
Länge | Length	
59.0mm	

80.160

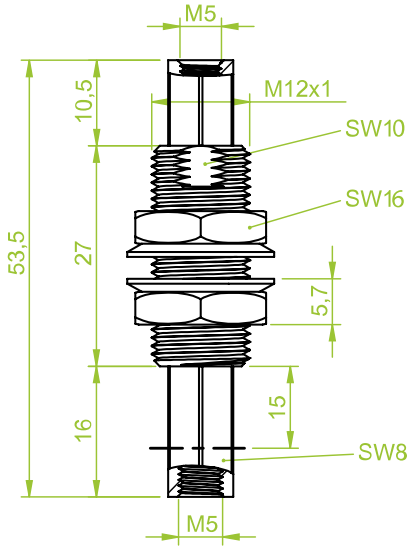


Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
AG 1/8	IG 1/8
Verdrehsicherung *Anti-twist lock*	
-	
25.0mm	
Länge | Length	
93.0mm	

* Steckanschluss auf Anfrage erhältlich | *Plug connection available on request*

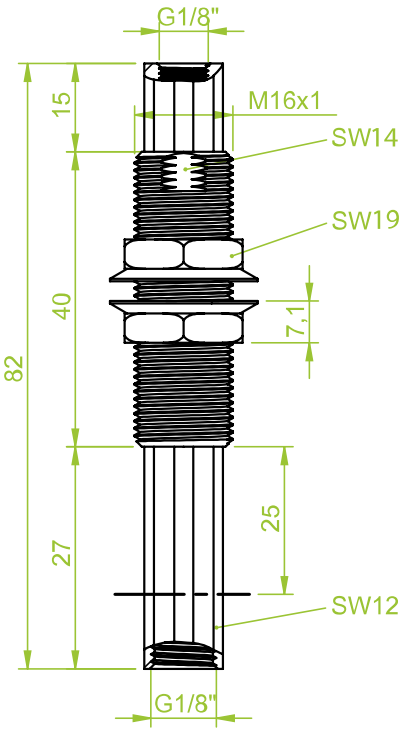
Federstößel | *Spring levelers*

80.523



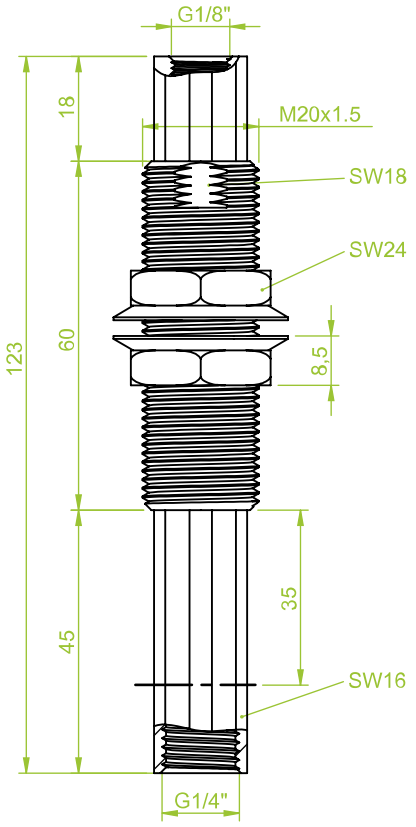
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
15.0mm	
Länge | Length	
53.5mm	

80.524



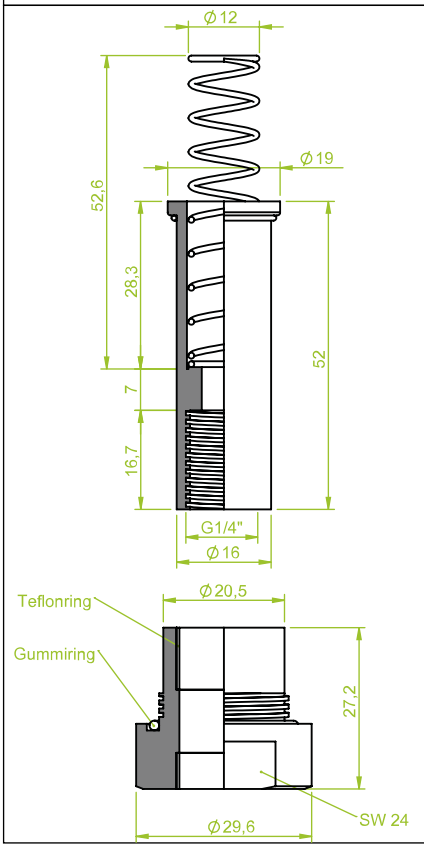
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/8	IG 1/8
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
25.0mm	
Länge | Length	
82.0mm	

80.525



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG 1/4	IG 1/8
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
35.0mm	
Länge | Length	
123.0mm	

80.526



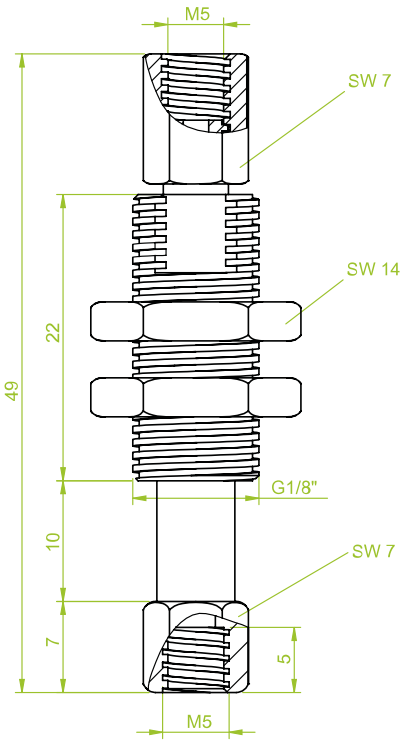
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
Verdrehsicherung *Anti-twist lock*	
-	
55.0mm	
Länge | Length	
0.0mm	

* Steckanschluss auf Anfrage erhältlich |*P lug conne c tion a vailable on re que s t*

MORALI VACTEC SYSTEMS

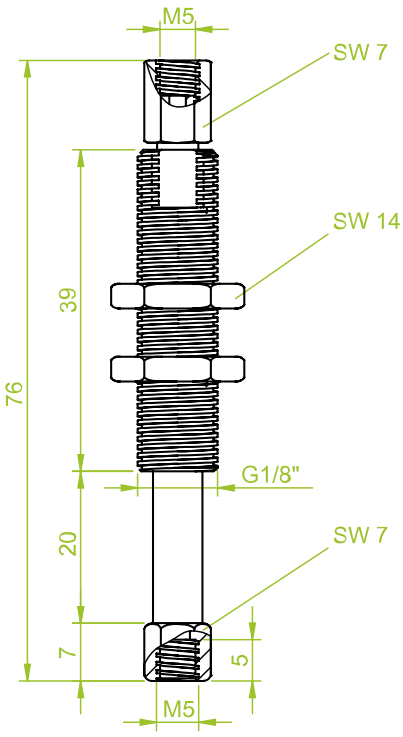
Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

80.530



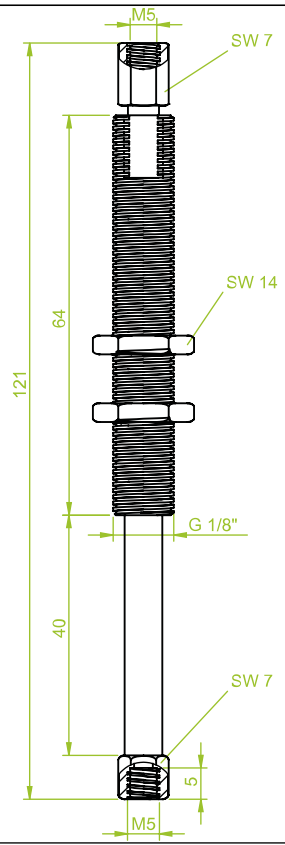
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
10.0mm	
Länge | Length	
49.0mm	

80.531



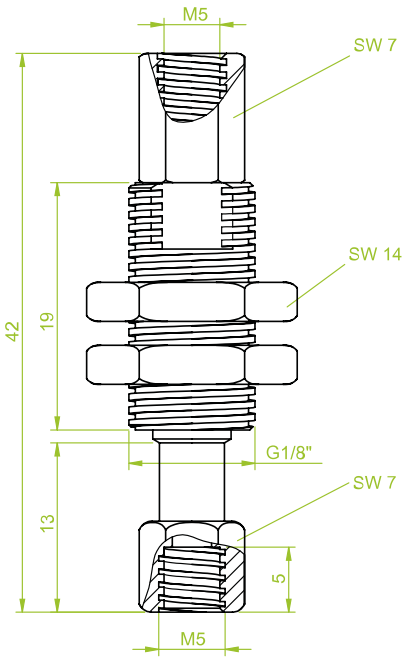
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
20.0mm	
Länge | Length	
76.0mm	

80.532



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
-	
40.0mm	
Länge | Length	
121.0mm	

80.533



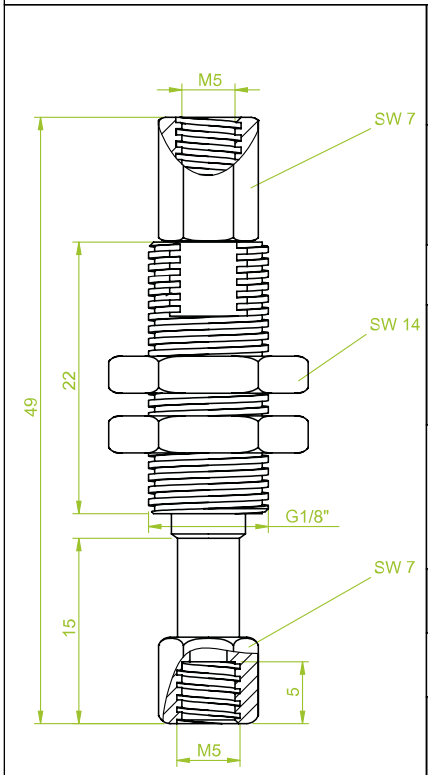
Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5
Verdrehsicherung *Anti-twist lock*	
Ja | Yes	
7.0mm	
Länge | Length	
42.0mm	

* Steckanschluss auf Anfrage erhältlich | *Plug connection available on request*

Morali Produktionstechnik GmbH
Handling technology
Stadtweg 30
D-78658 Zimmern o.R.
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29
Email: info@morali-gmbh.de
www.morali-gmbh.de

Federstößel | *Spring levelers*

80.534



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5

Verdrehsicherung *Anti-twist lock*

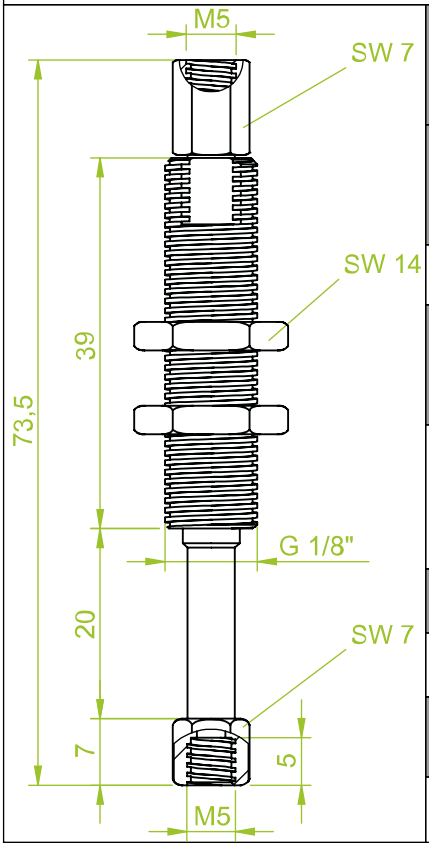
Ja | Yes

10.0mm

Länge | Length

49.0mm

80.535



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5

Verdrehsicherung *Anti-twist lock*

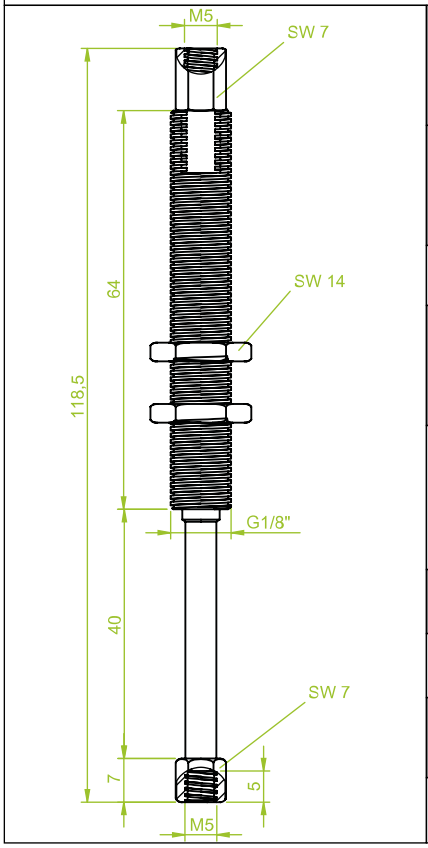
Ja | Yes

20.0mm

Länge | Length

73.5mm

80.536



Gewinde *Thread*	
Sauger *Cups*	Vakuum *Vacuum*
IG M5	IG M5

Verdrehsicherung *Anti-twist lock*

Ja | Yes

40.0mm

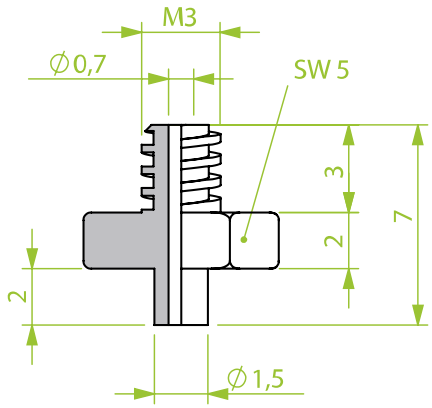
Länge | Length

118.5mm

* Steckanschluss auf Anfrage erhältlich |*Plug connection available on request*

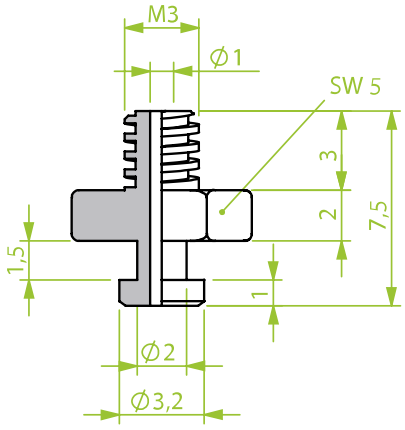
130.011

AG M3



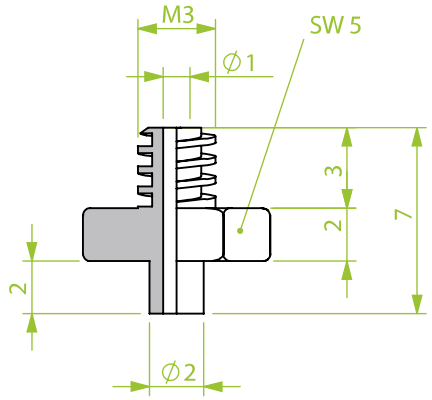
130.014

AG M3



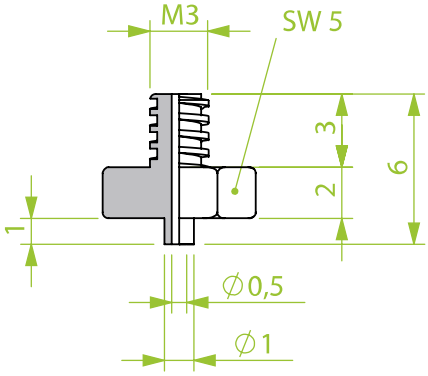
130.025

AG M3



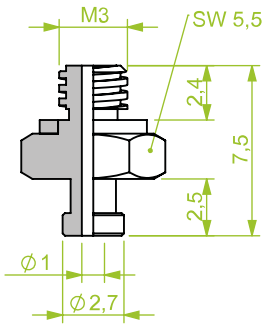
130.026

AG M3



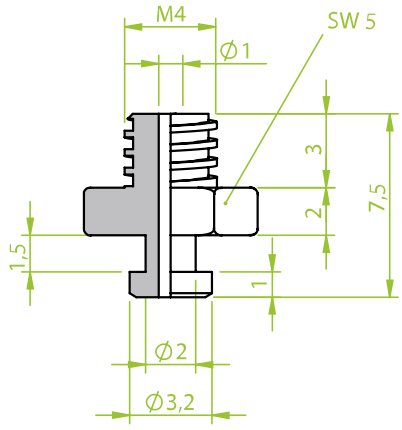
130.523

AG M3



130.111

AG M4



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

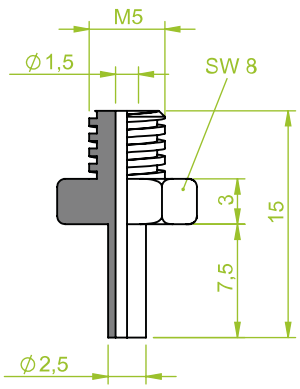
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Anschlußteile I *Fittings*

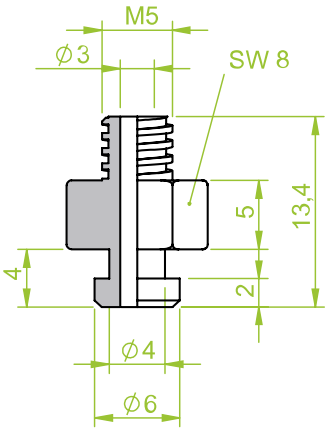
130.001

AG M5



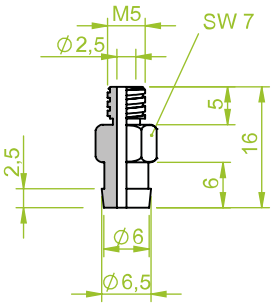
130.010

AG M5



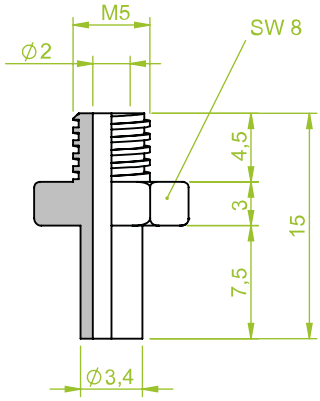
130.013

AG M5



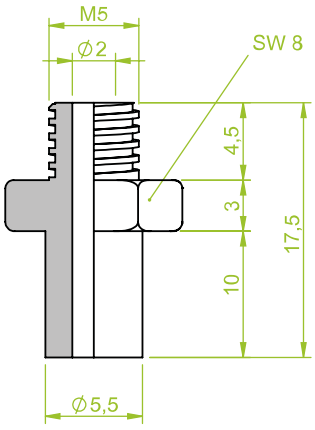
130.022

AG M5



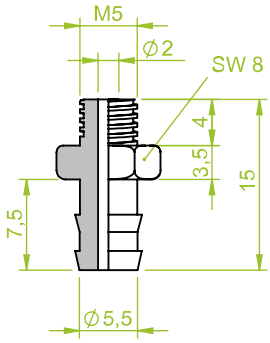
130.023

AG M5



130.024

AG M5



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

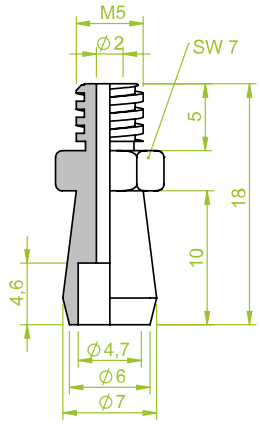
Stadtweg 30
D-78658 Zimmern o.R.

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

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

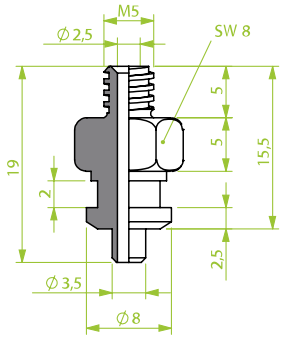
130.032

AG M5



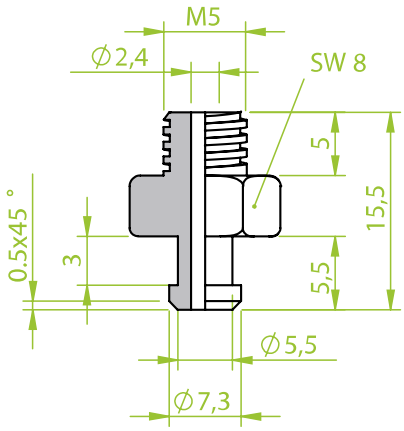
130.037

AG M5



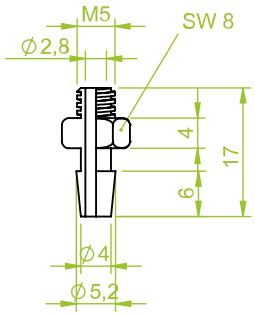
130.094

AG M5



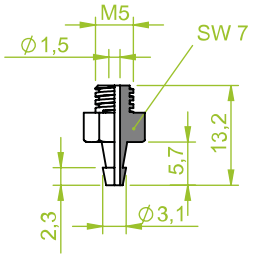
130.134

AG M5



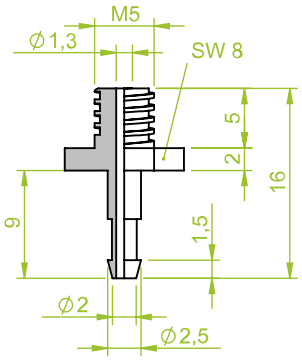
130.153

AG M5



130.195

AG M5



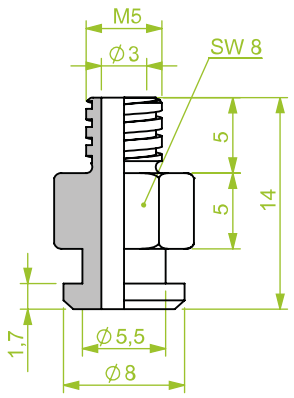
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

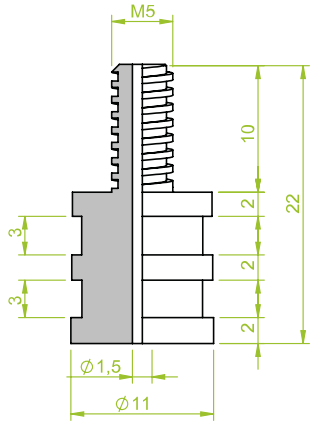
130.200

AG M5



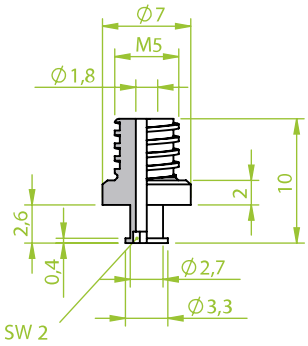
130.244

AG M5



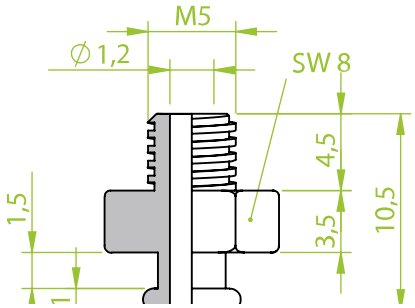
130.283

AG M5



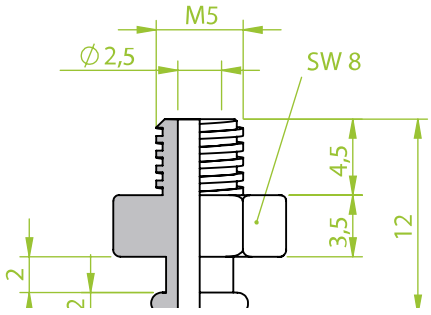
130.300

AG M5



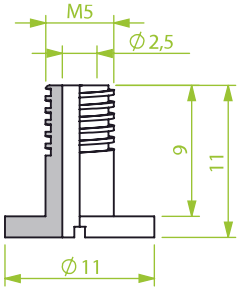
130.301

AG M5



130.310

AG M5

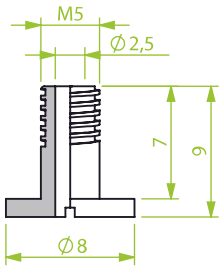


*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

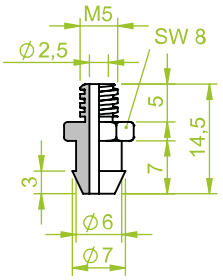
130.311

AG M5



130.317

AG M5

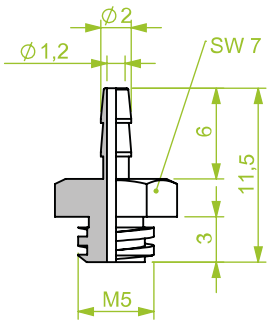


130.373

AG M5

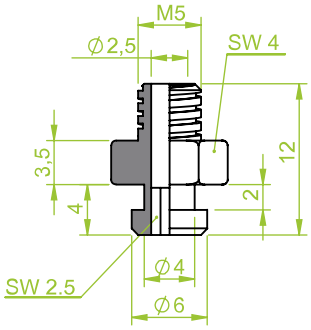
130.436

AG M5



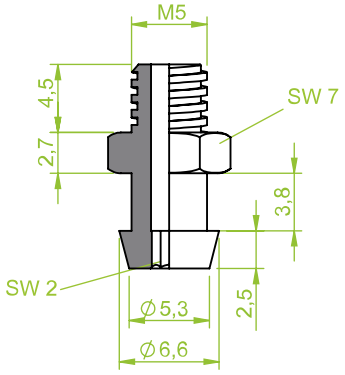
130.536

AG M5



130.537

AG M5



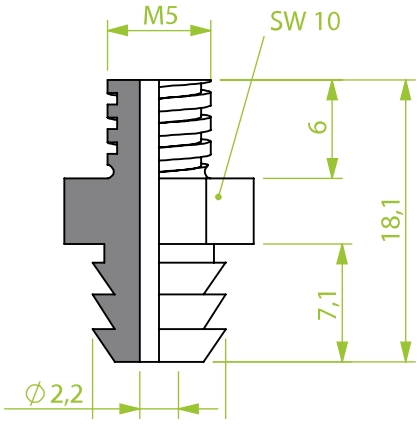
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

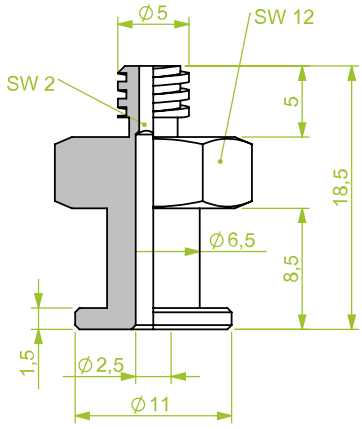
130.560

AG M5



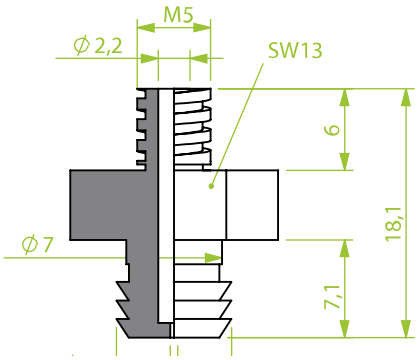
130.565

AG M5



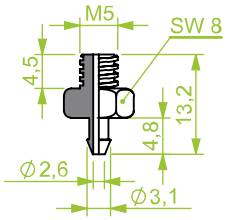
130.566

AG M5



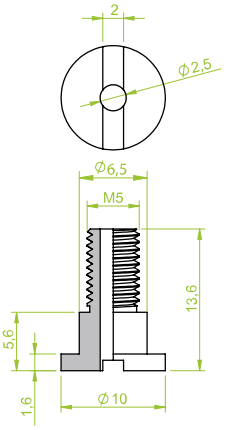
130.591

AG M5



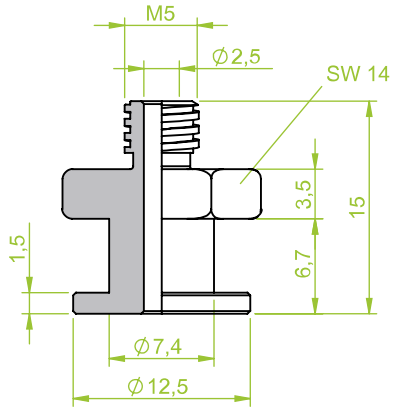
130.599

AG M5



130.604

AG M5



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

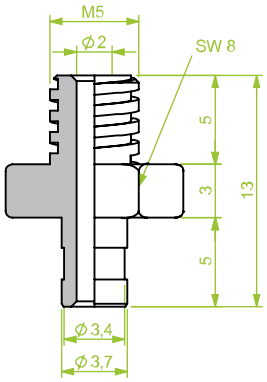
Stadtweg 30
D-78658 Zimmern o.R.

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

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

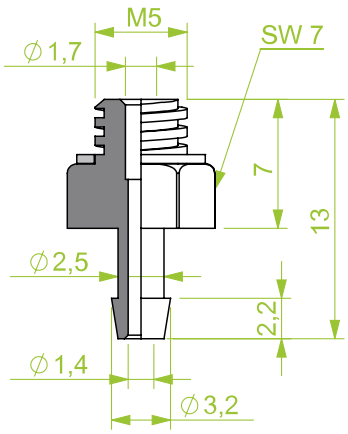
130.613

AG M5



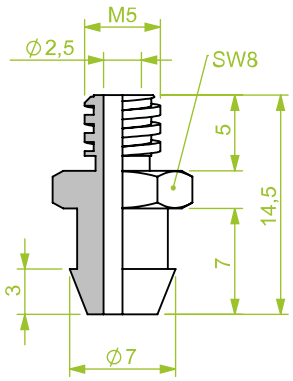
130.626

AG M5



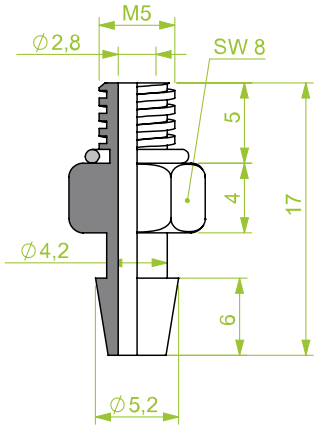
130.629

AG M5



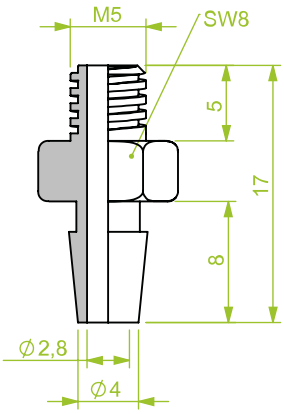
130.633

AG M5



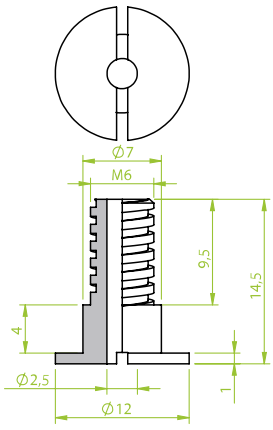
130.906

AG M5



130.039

AG M6



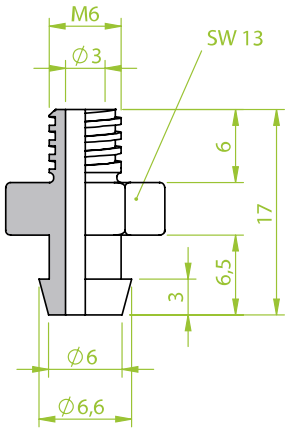
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

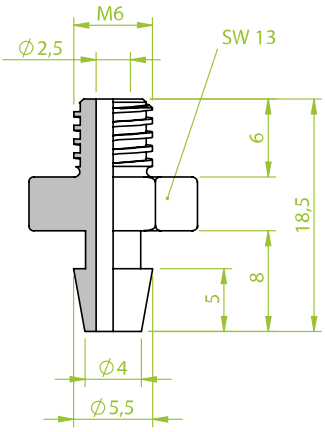
130.103

AG M6



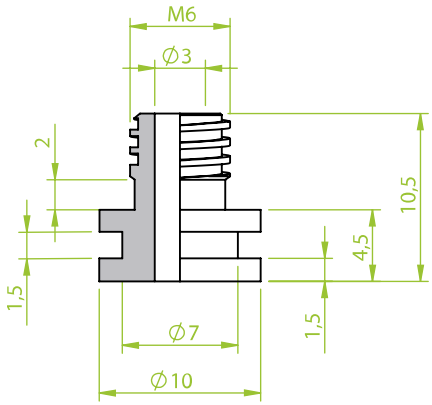
130.104

AG M6



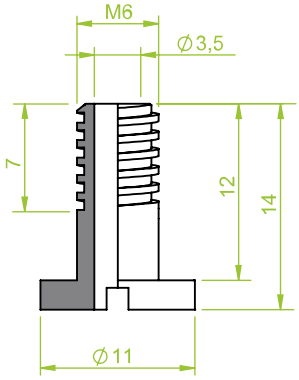
130.105

AG M6



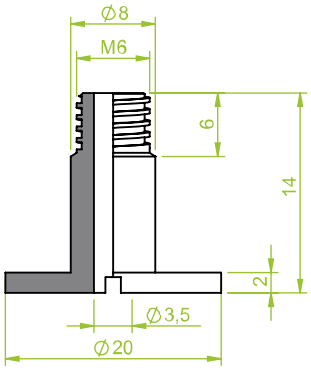
130.312

AG M6



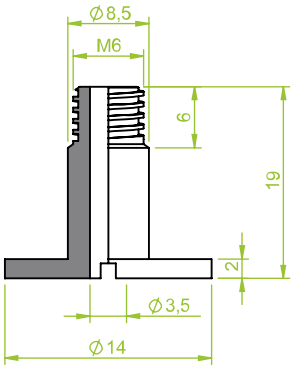
130.314

AG M6



130.315

AG M6



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

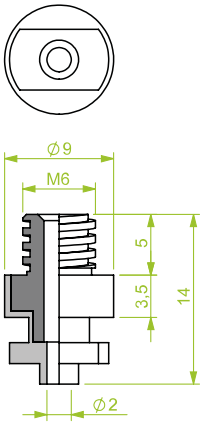
Stadtweg 30
D-78658 Zimmern o.R.

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

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

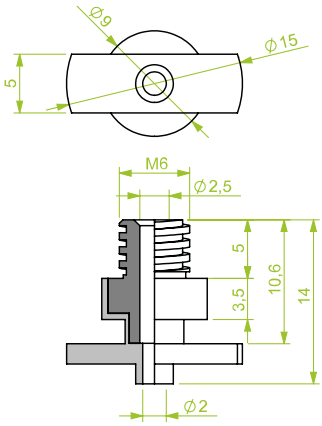
130.339

AG M6



130.340

AG M6

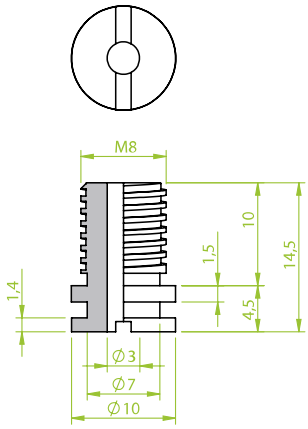


130.640

AG M6

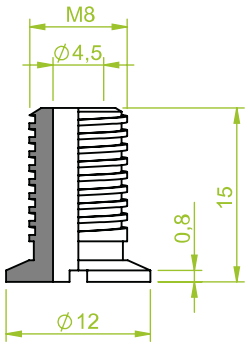
130.040

AG M8



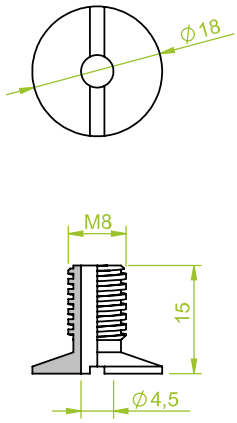
130.247

AG M8



130.256

AG M8



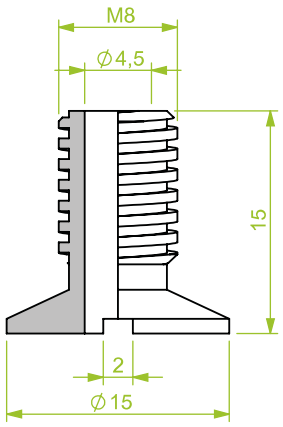
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

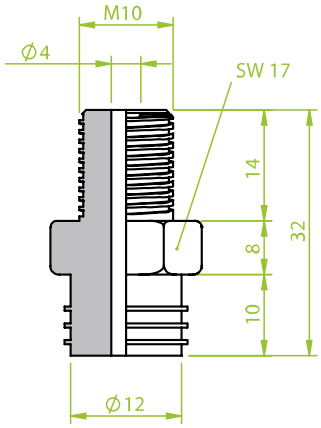
130.628

AG M8



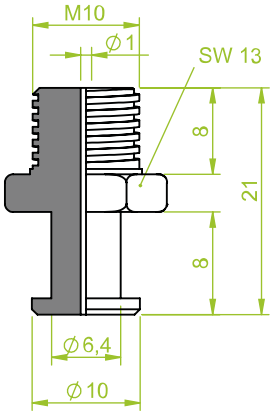
130.177

AG M10



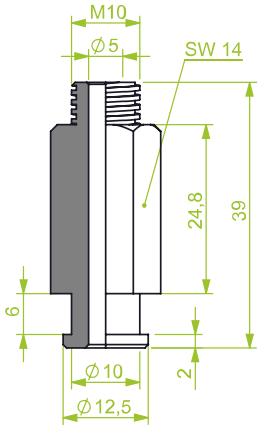
130.350

AG M10



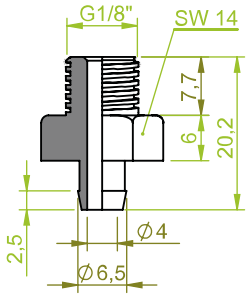
130.553

AG M10



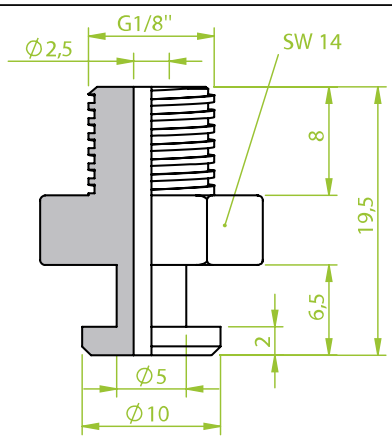
130.003

AG 1/8"



130.006

AG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

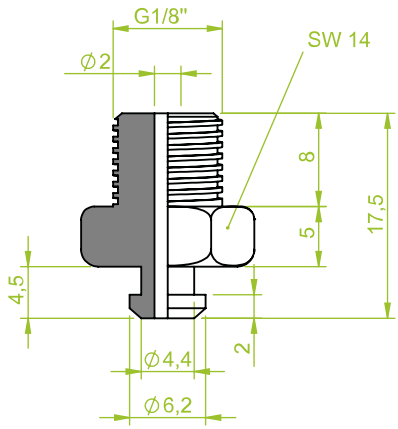
Stadtweg 30
D-78658 Zimmern o.R.

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

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

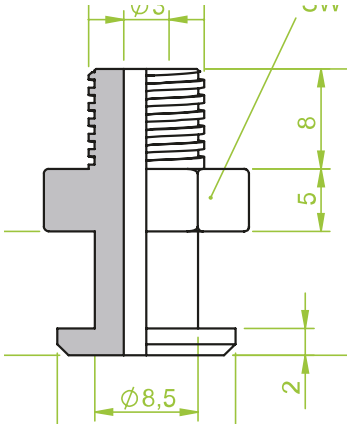
130.009

AG 1/8"



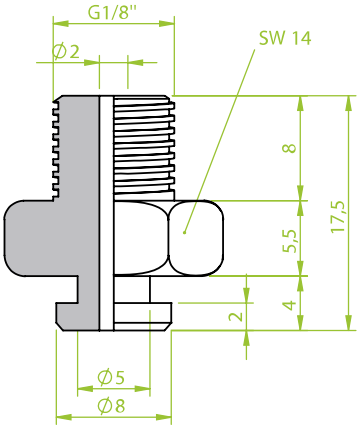
130.012

AG 1/8"



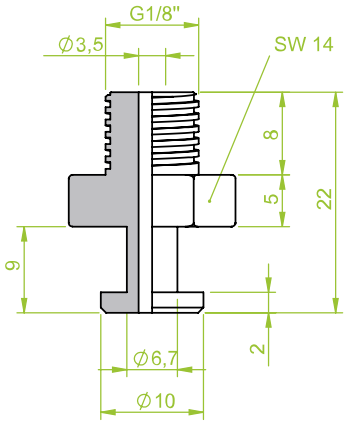
130.021

AG 1/8"



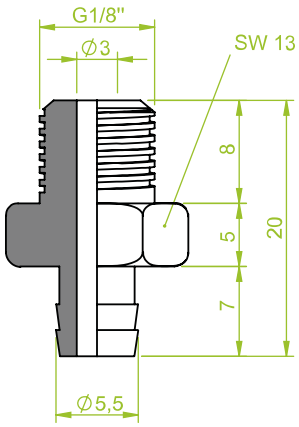
130.030

AG 1/8"



130.033

AG 1/8"



130.036

AG 1/8"

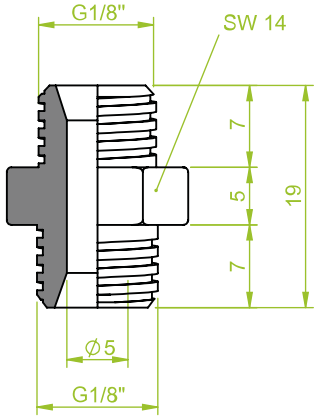
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

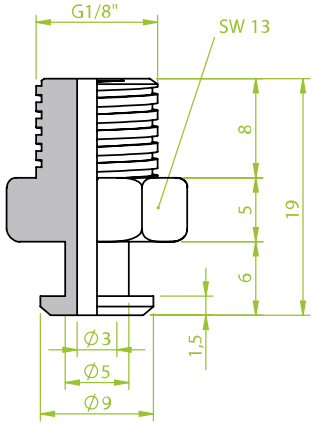
130.059

AG 1/8"



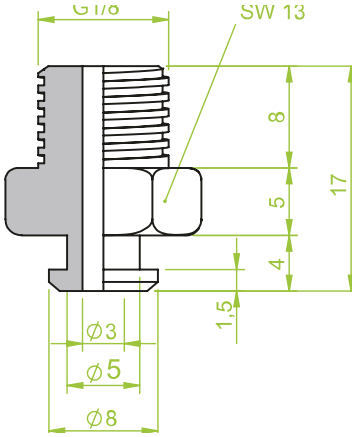
130.063

AG 1/8"



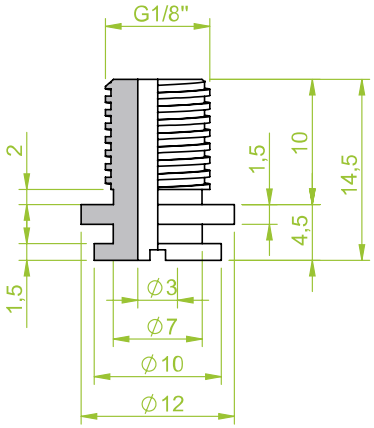
130.064

AG 1/8"



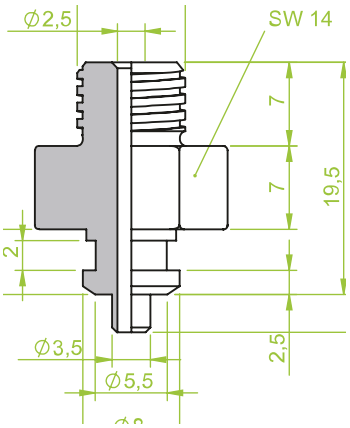
130.077

AG 1/8"



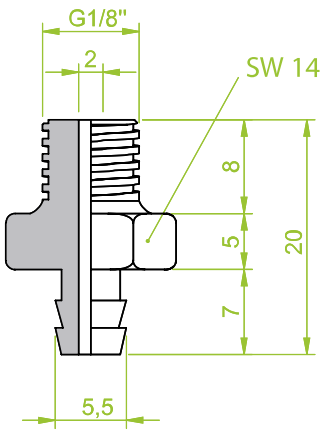
130.085

AG 1/8"



130.087

AG 1/8"

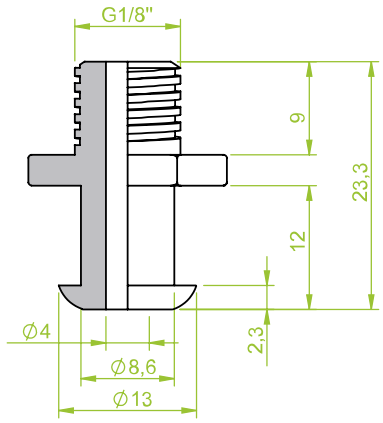


*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

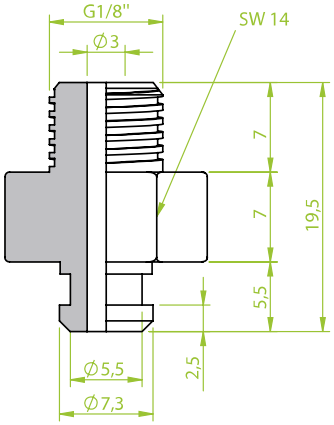
130.093

AG 1/8"



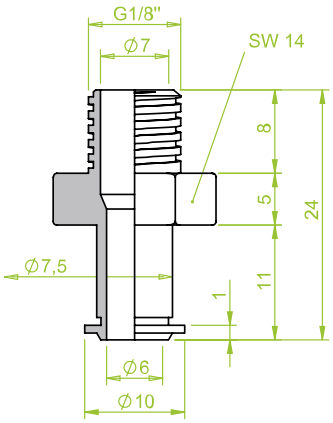
130.095

AG 1/8"



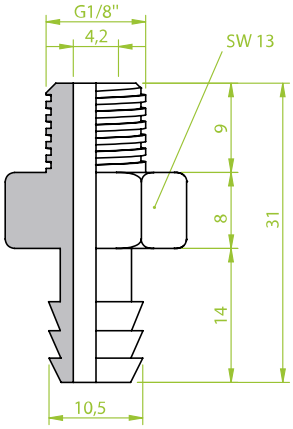
130.112

AG 1/8"



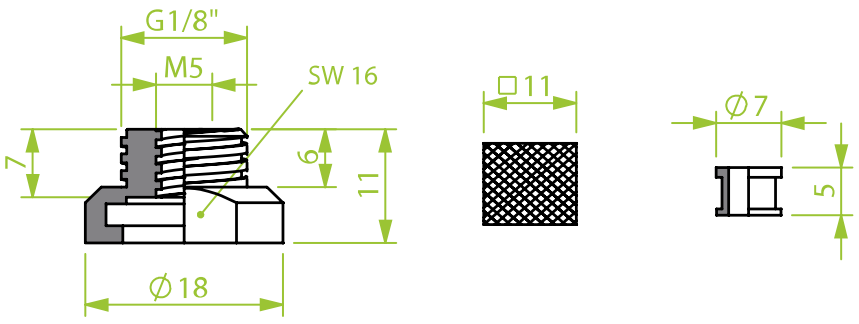
130.132

AG 1/8"



130.135

AG 1/8"



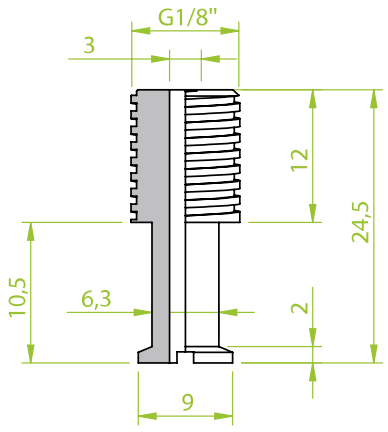
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

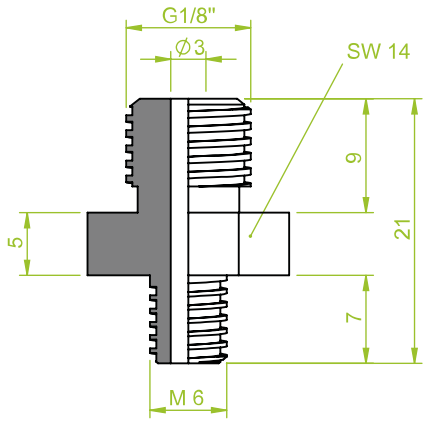
130.147

AG 1/8"



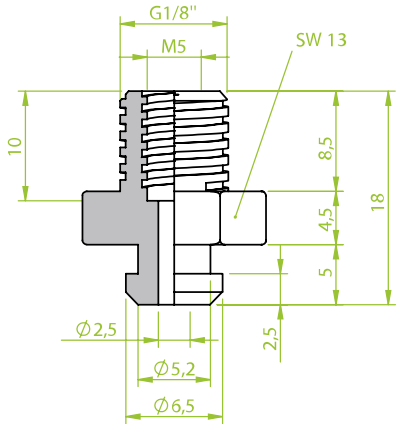
130.181

AG 1/8"



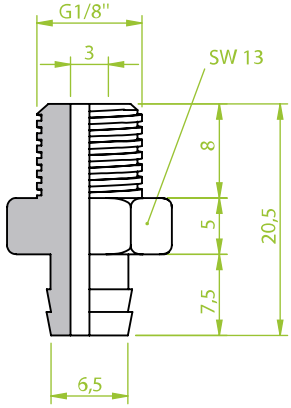
130.188

AG 1/8"



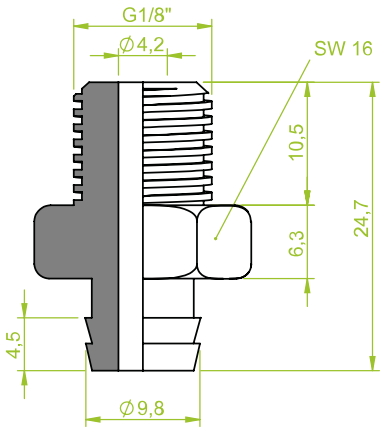
130.205

AG 1/8"



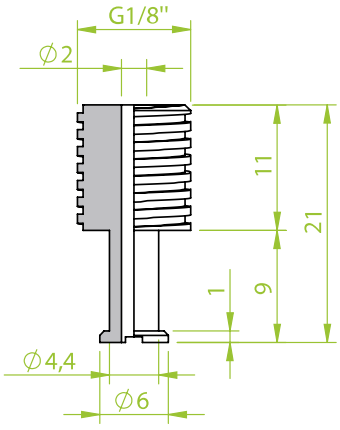
130.238

AG 1/8"



130.242

AG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

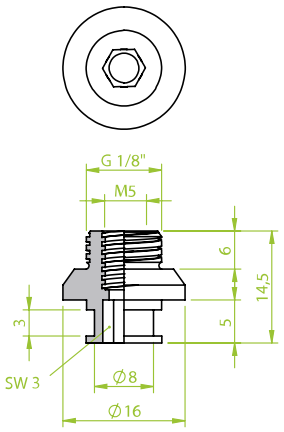
Stadtweg 30
D-78658 Zimmern o.R.

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

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

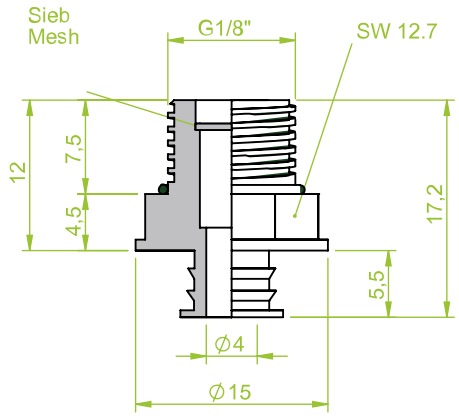
130.250

AG 1/8"



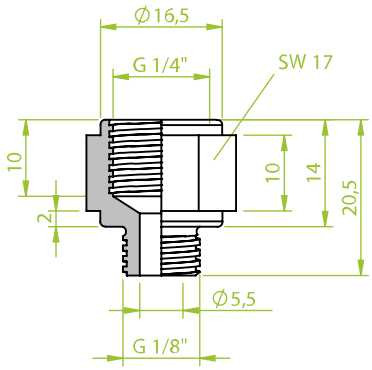
130.291

AG 1/8"



130.334

AG 1/8"

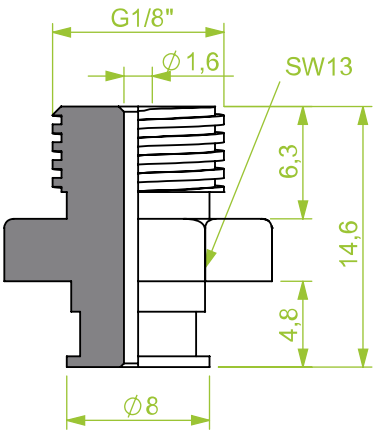


130.480

AG 1/8"

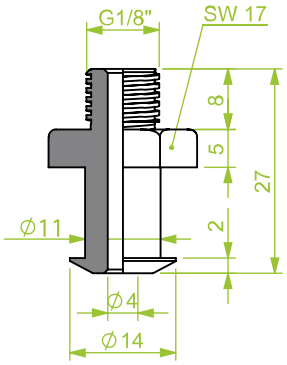
130.507

AG 1/8"



130.510

AG 1/8"



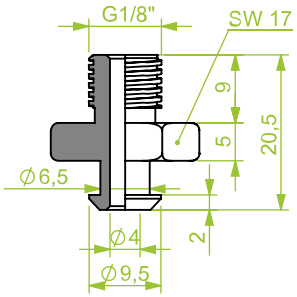
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

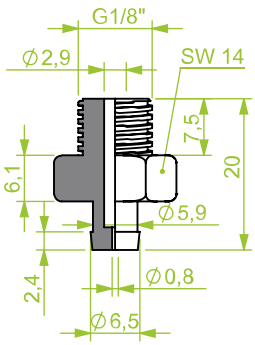
130.520

AG 1/8"



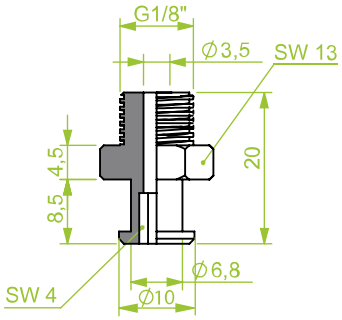
130.524

AG 1/8"



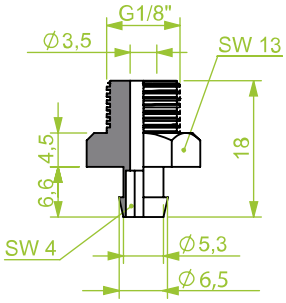
130.538

AG 1/8"



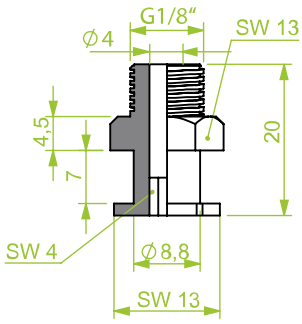
130.539

AG 1/8"



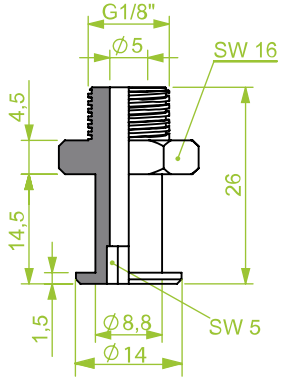
130.540

AG 1/8"



130.541

AG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

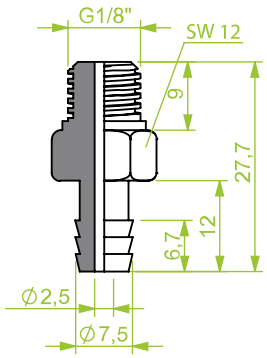
Stadtweg 30
D-78658 Zimmern o.R.

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

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

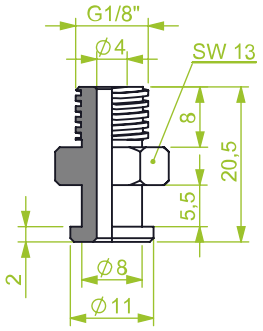
130.546

AG 1/8"



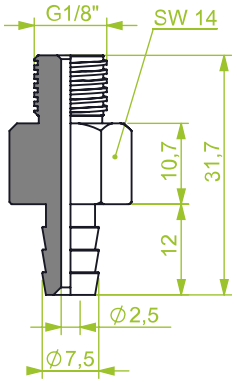
130.549

AG 1/8"



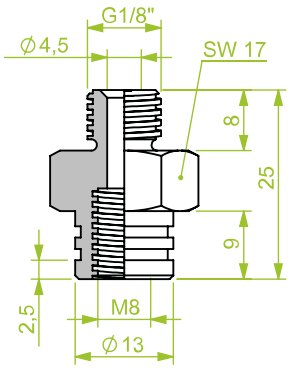
130.552

AG 1/8"



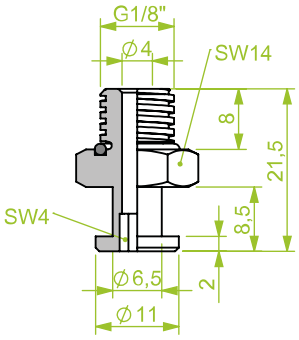
130.594

AG 1/8"



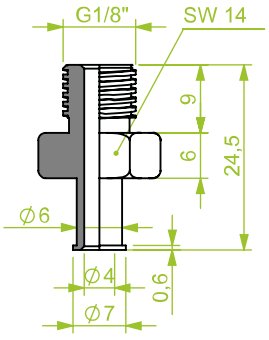
130.597

AG 1/8"



130.603

AG 1/8"



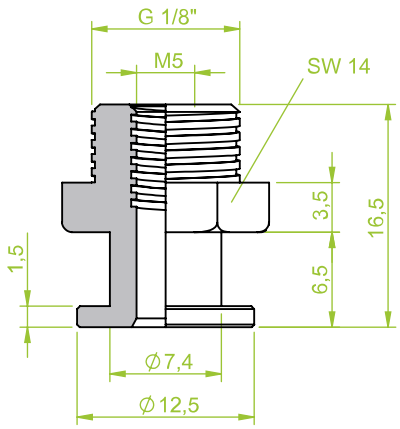
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

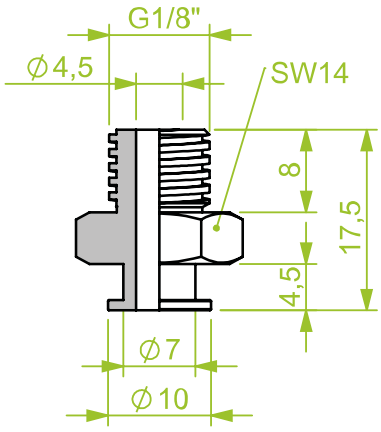
130.605

AG 1/8"



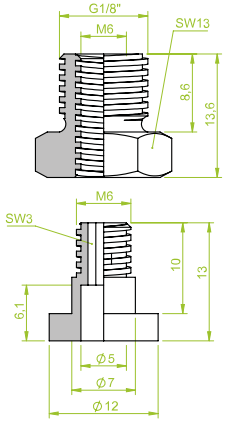
130.610

AG 1/8"



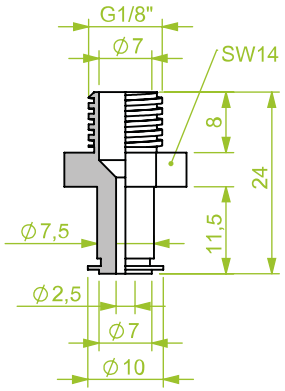
130.611

AG 1/8"



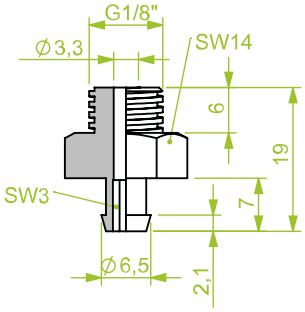
130.619

AG 1/8"



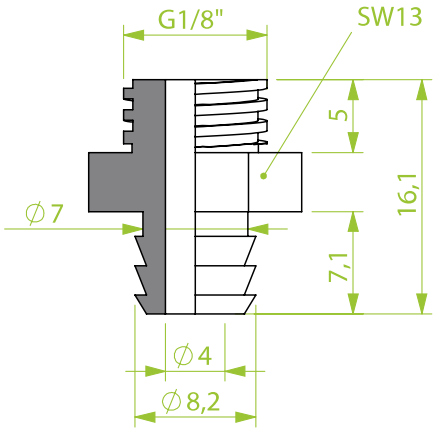
130.620

AG 1/8"



130.630

AG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

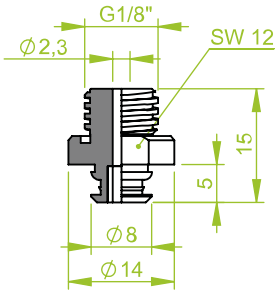
Stadtweg 30
D-78658 Zimmern o.R.

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

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

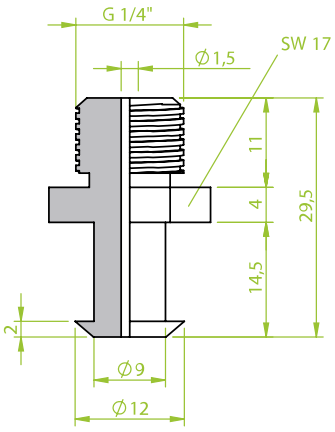
130.900

AG 1/8"



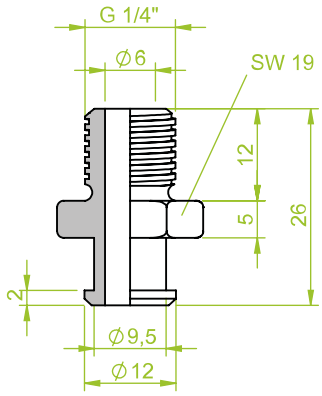
130.002

AG 1/4"



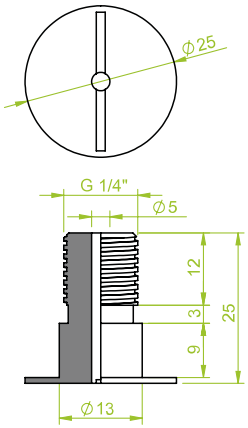
130.034

AG 1/4"



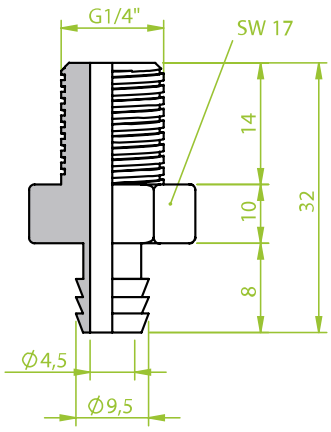
130.042

AG 1/4"



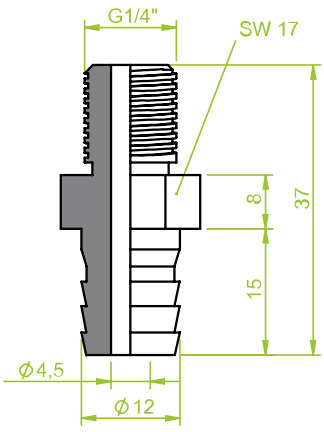
130.043

AG 1/4"



130.044

AG 1/4"



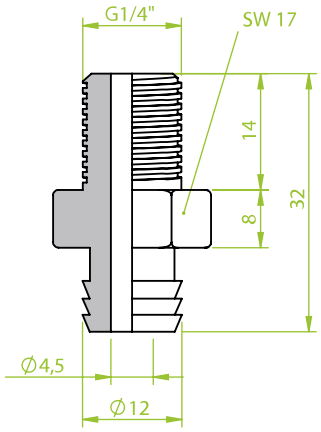
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

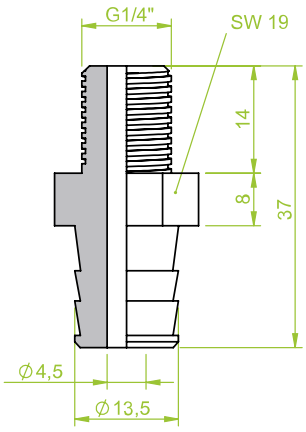
130.048

AG 1/4"



130.049

AG 1/4"

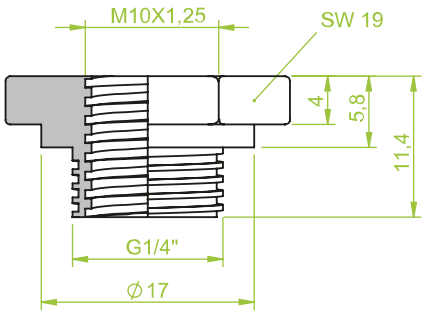


130.071

AG 1/4"

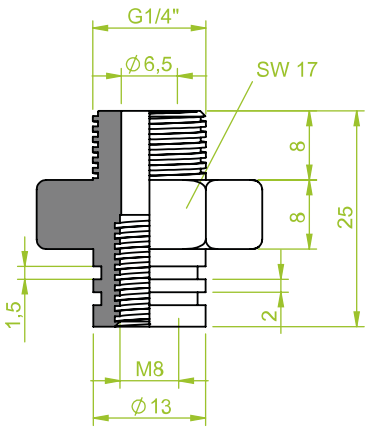
130.090

AG 1/4"



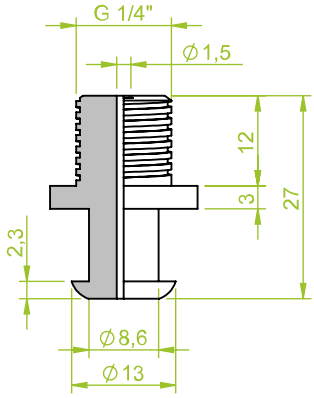
130.097

AG 1/4"



130.099

AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

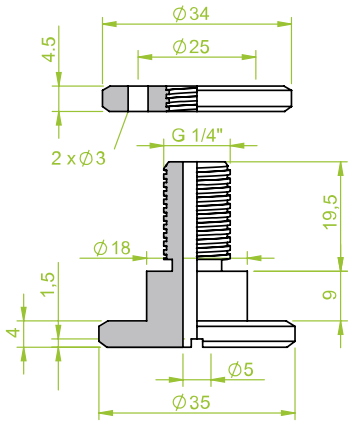
Stadtweg 30
D-78658 Zimmern o.R.

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

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

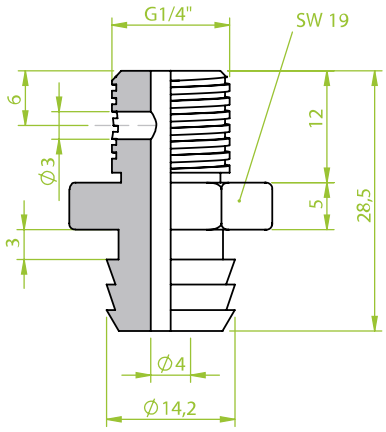
130.100

AG 1/4"



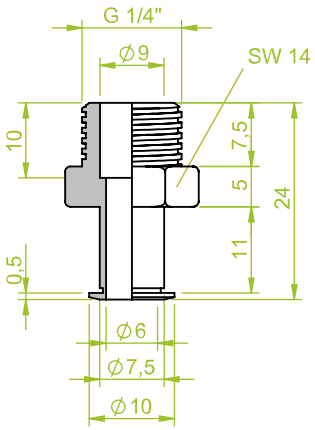
130.101

AG 1/4"



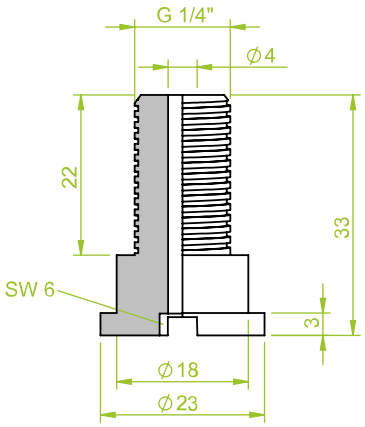
130.113

AG 1/4"



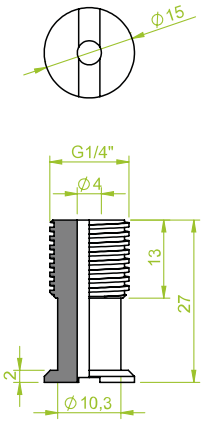
130.145

AG 1/4"



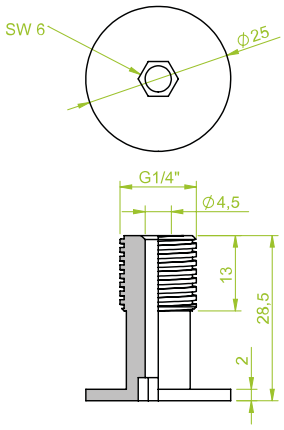
130.175

AG 1/4"



130.176

AG 1/4"



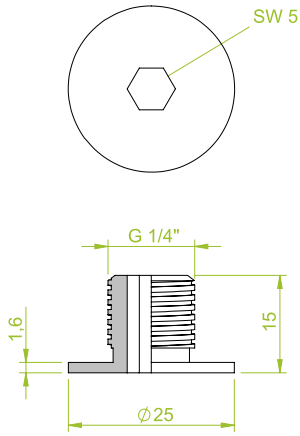
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

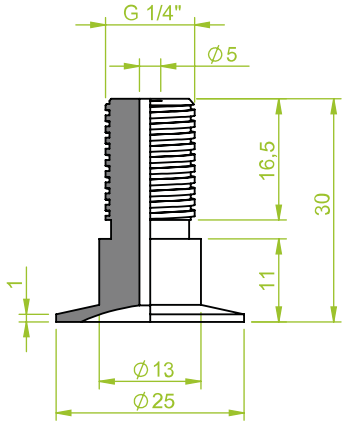
130.183

AG 1/4"



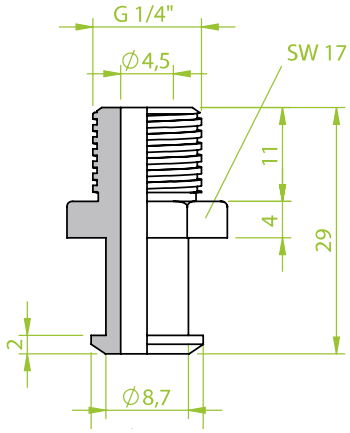
130.184

AG 1/4"



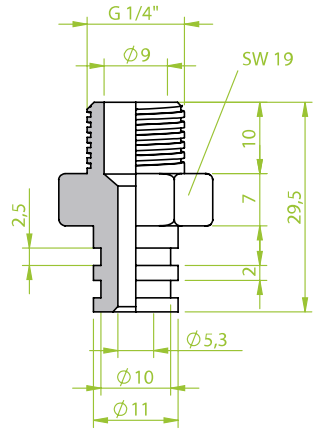
130.190

AG 1/4"



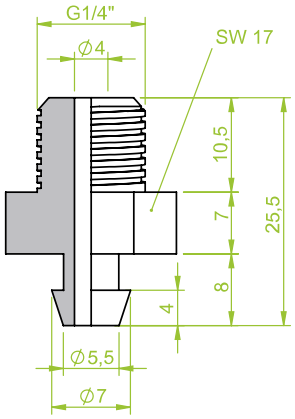
130.193

AG 1/4"



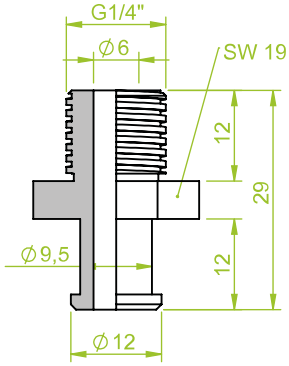
130.194

AG 1/4"



130.204

AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

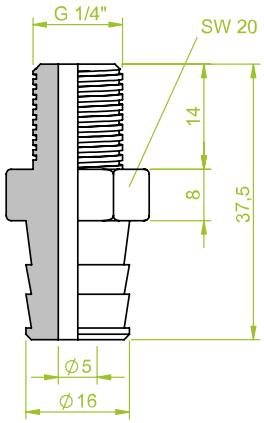
Stadtweg 30
D-78658 Zimmern o.R.

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

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

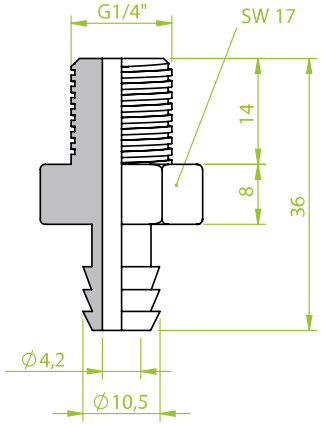
130.207

AG 1/4"



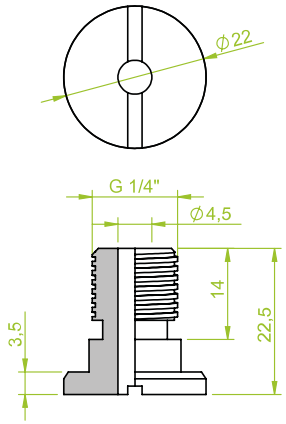
130.208

AG 1/4"



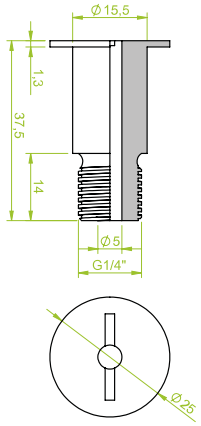
130.210

AG 1/4"



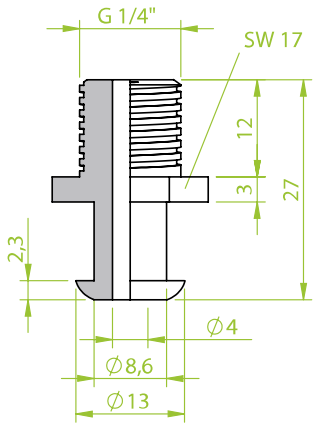
130.216

AG 1/4"



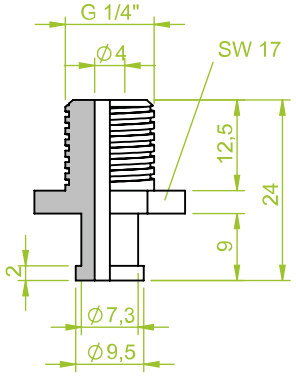
130.249

AG 1/4"



130.274

AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

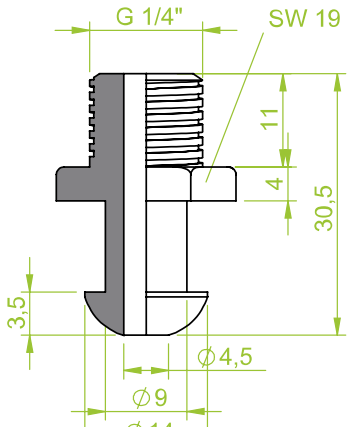
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Anschlußteile I *Fittings*

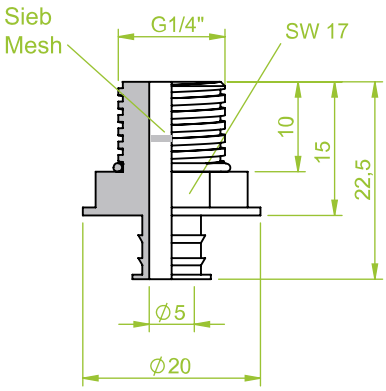
130.281

AG 1/4"



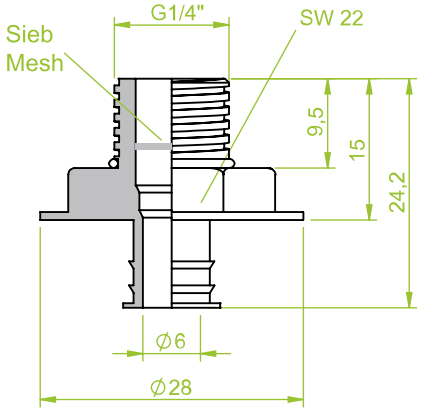
130.293

AG 1/4"



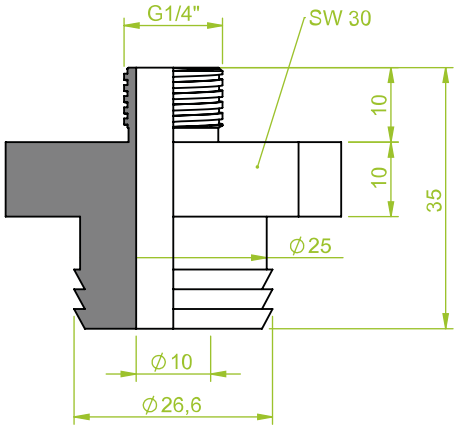
130.294

AG 1/4"



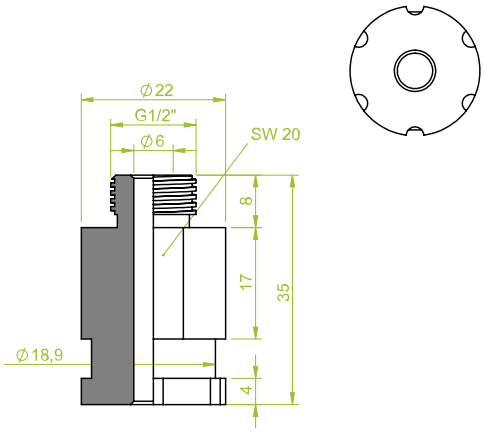
130.327

AG 1/4"



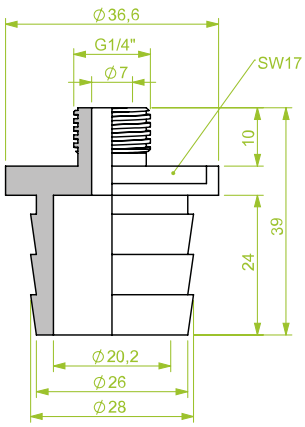
130.390

AG 1/4"



130.438

AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

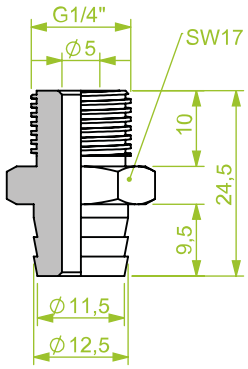
Stadtweg 30
D-78658 Zimmern o.R.

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

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

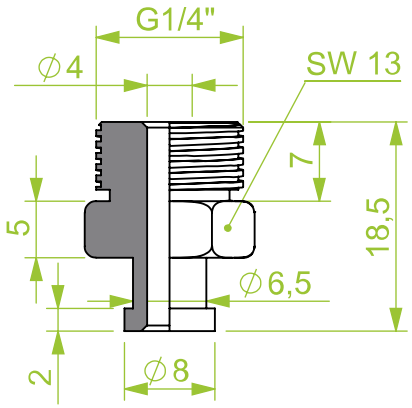
130.451

AG 1/4"



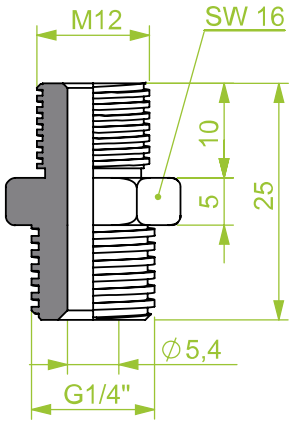
130.504

AG 1/4"



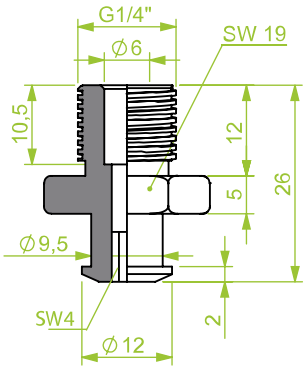
130.508

AG 1/4"



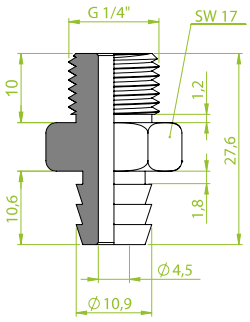
130.518

AG 1/4"



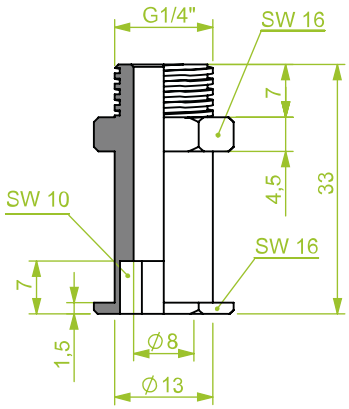
130.521

AG 1/4"



130.542

AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

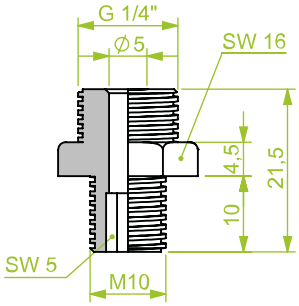
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Anschlußteile I *Fittings*

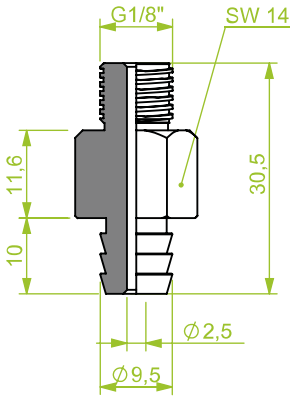
130.543

AG 1/4"



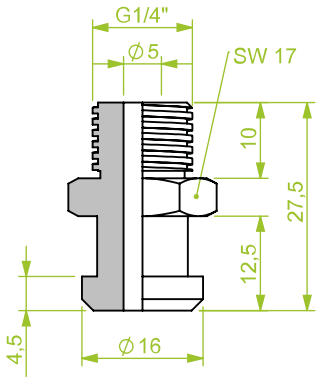
130.551

AG 1/4"



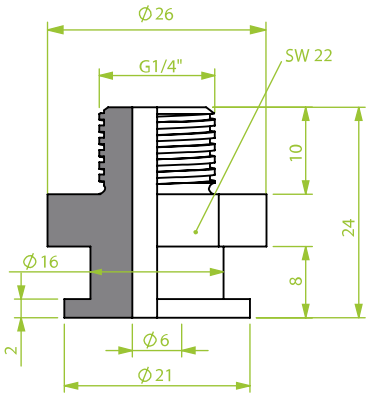
130.559

AG 1/4"



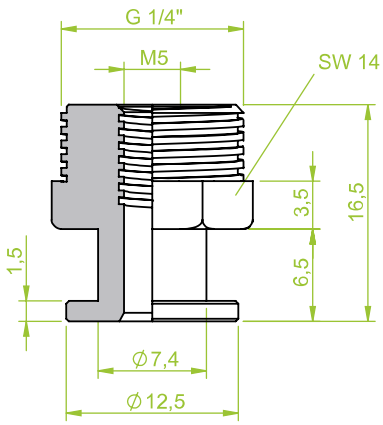
130.598

AG 1/4"



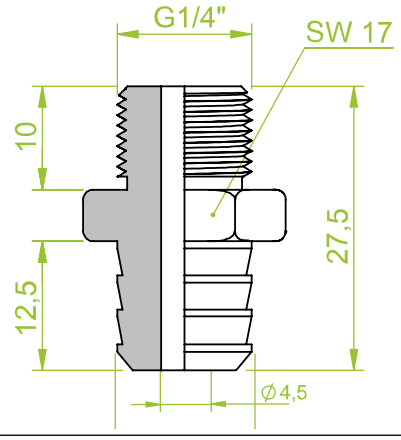
130.606

AG 1/4"



130.609

AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

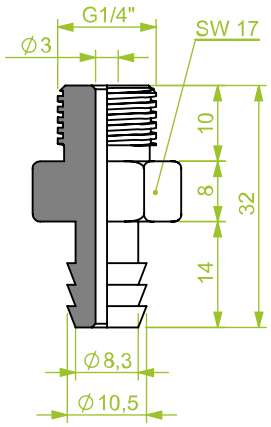
Stadtweg 30
D-78658 Zimmern o.R.

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

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

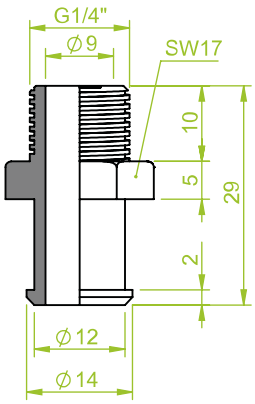
130.614

AG 1/4"



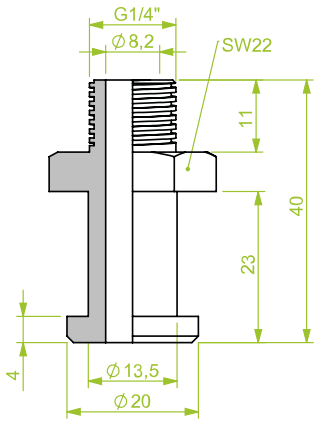
130.617

AG 1/4"



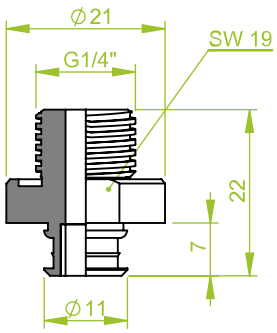
130.622

AG 1/4"



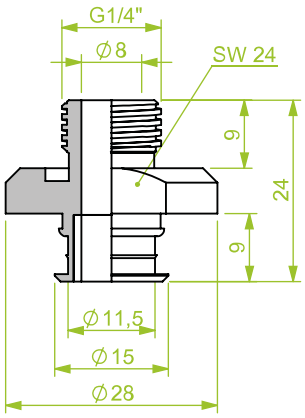
130.902

AG 1/4"



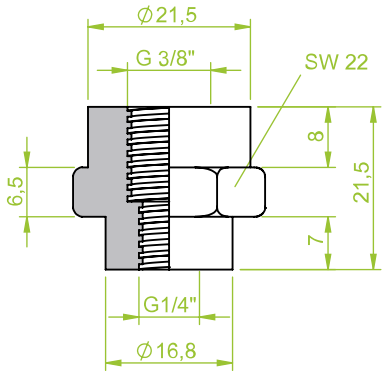
130.908

AG 1/4"



130.295

AG 3/8"



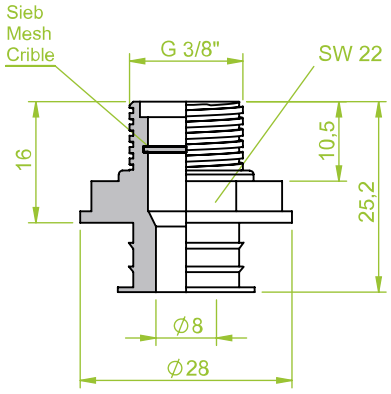
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

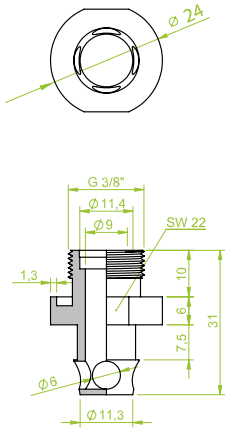
130.296

AG 3/8"



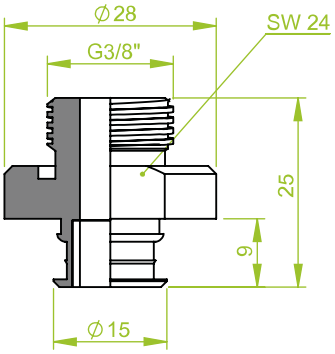
130.600

AG 3/8"



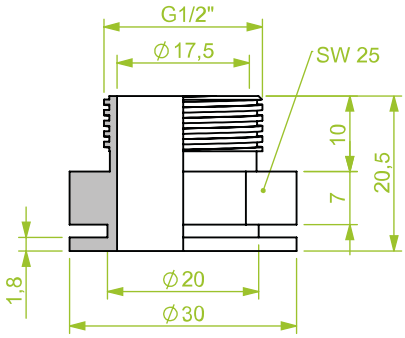
130.904

AG 3/8"



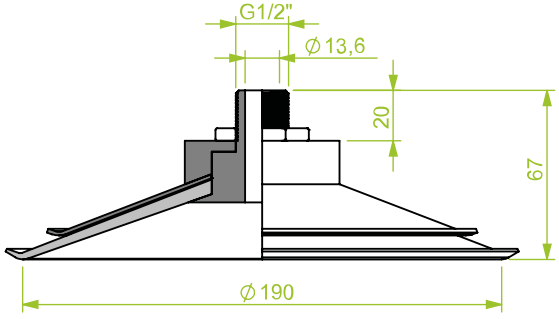
130.372

AG 1/2"



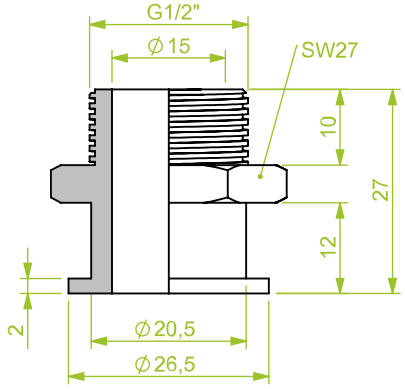
130.405

AG 1/2"



130.616

AG 1/2"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

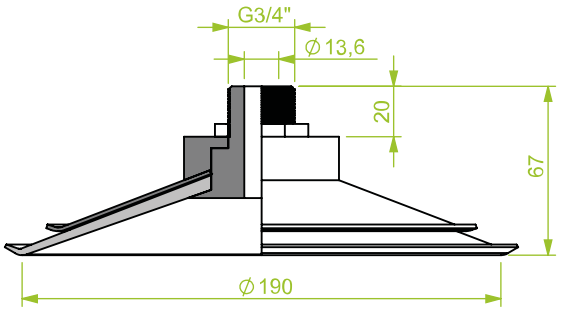
Stadtweg 30
D-78658 Zimmern o.R.

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

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

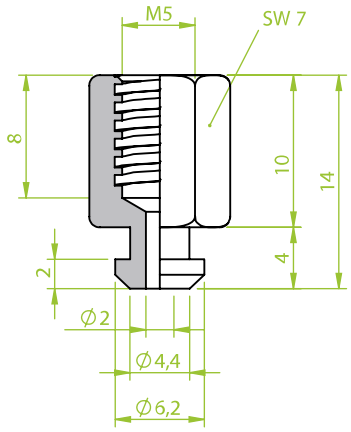
130.406

AG 3/4"



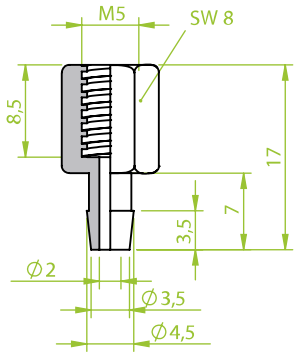
130.005

IG M5



130.347

IG M5

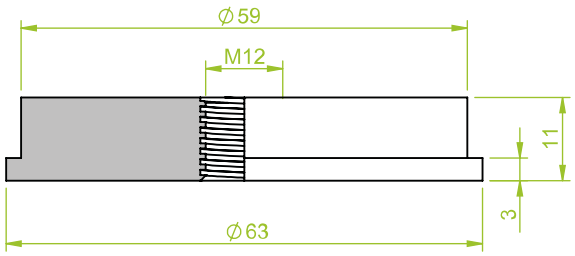


130.374

IG M5

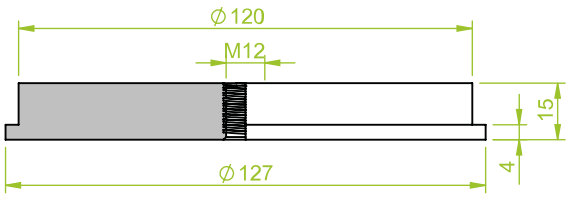
130.263

IG M12



130.272

IG M12



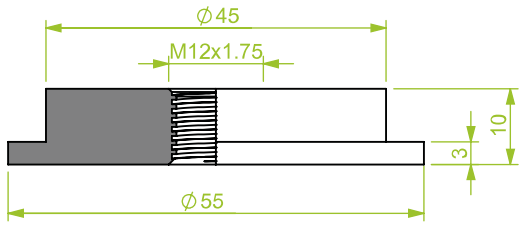
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

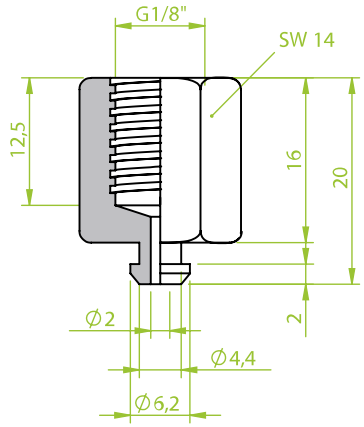
130.338

IG M12



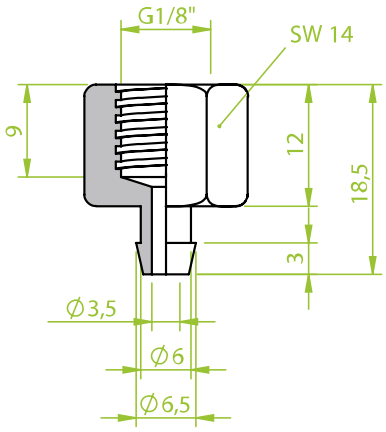
130.007

IG 1/8"



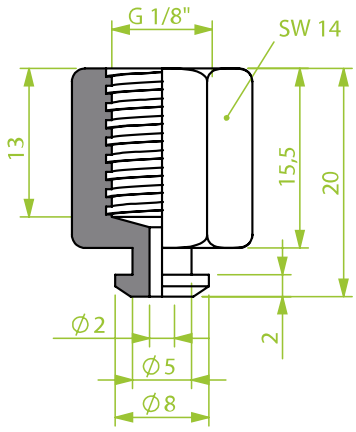
130.015

IG 1/8"



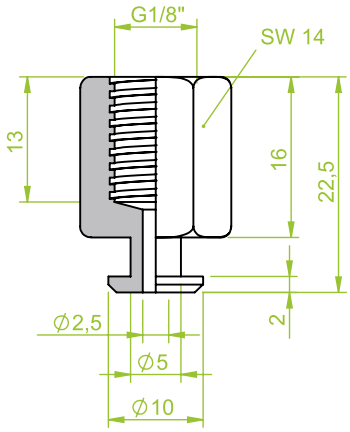
130.017

IG 1/8"



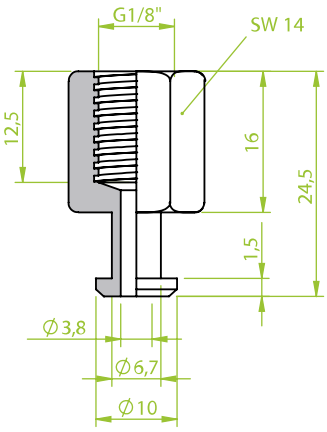
130.018

IG 1/8"



130.019

IG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

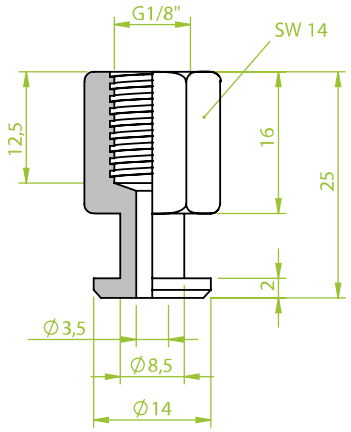
Stadtweg 30
D-78658 Zimmern o.R.

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

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

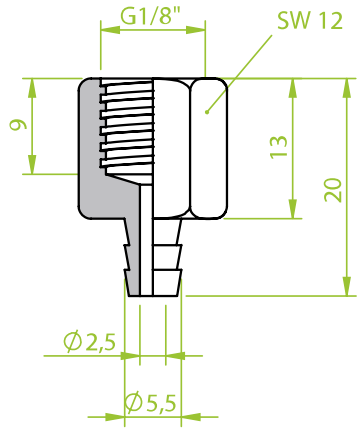
130.020

IG 1/8"



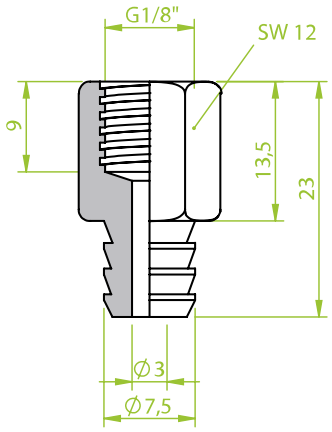
130.035

IG 1/8"



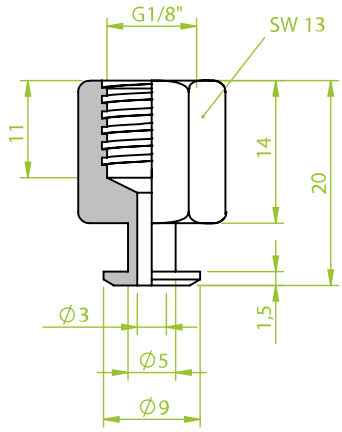
130.041

IG 1/8"



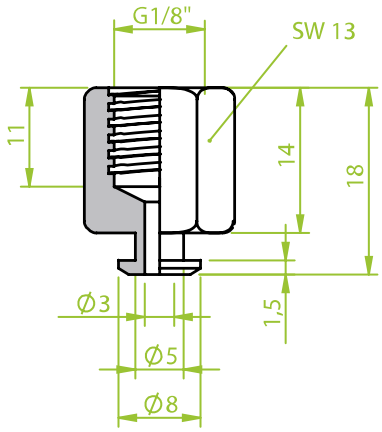
130.061

IG 1/8"



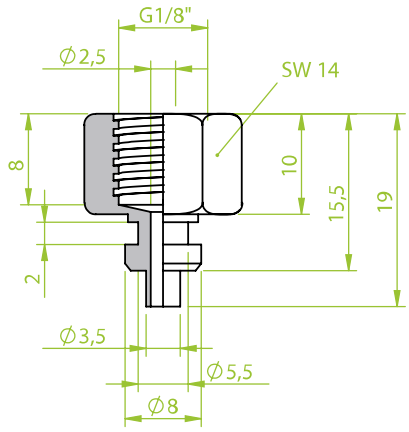
130.065

IG 1/8"



130.086

IG 1/8"



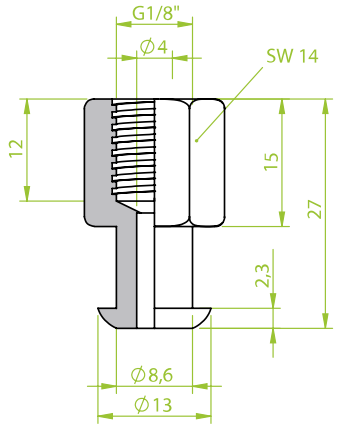
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

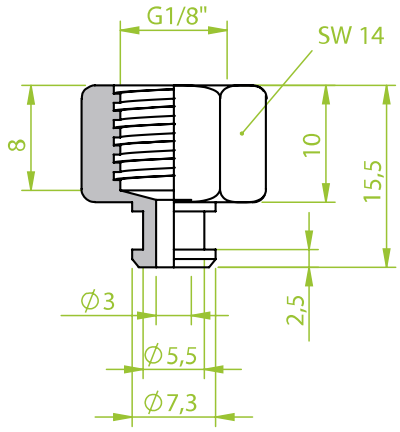
130.092

IG 1/8"



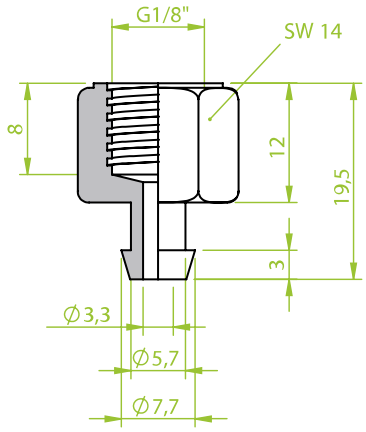
130.096

IG 1/8"



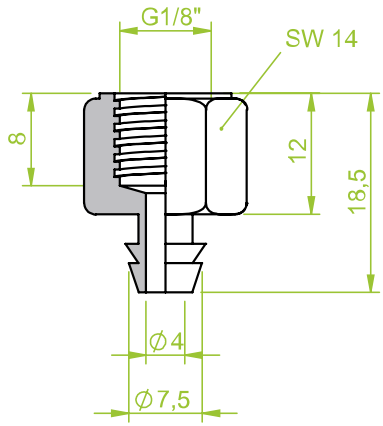
130.109

IG 1/8"



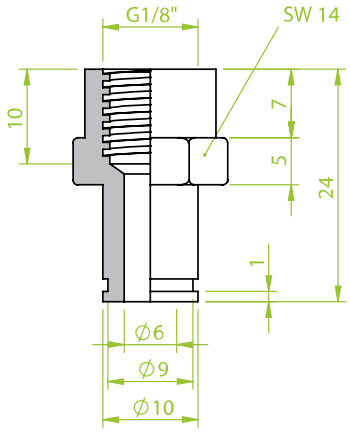
130.110

IG 1/8"



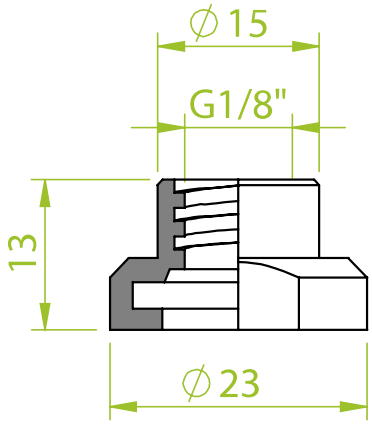
130.114

IG 1/8"



130.136

IG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

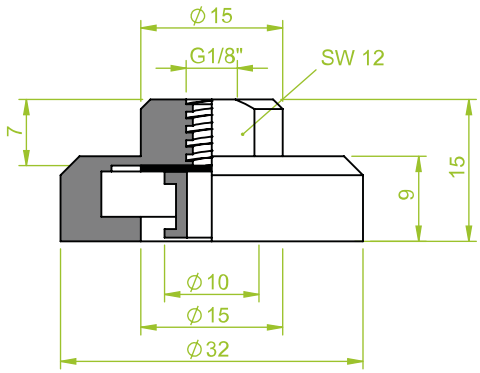
Stadtweg 30
D-78658 Zimmern o.R.

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

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

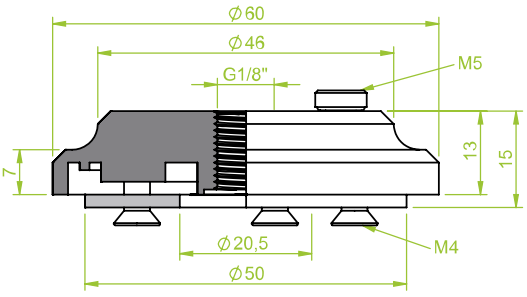
130.137

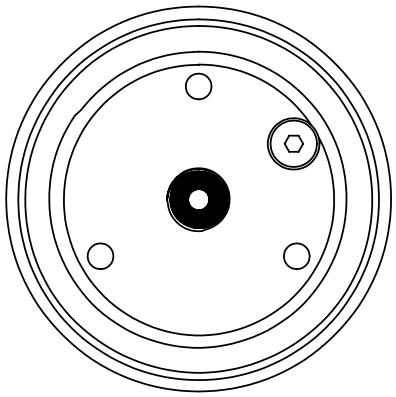
IG 1/8"



130.138

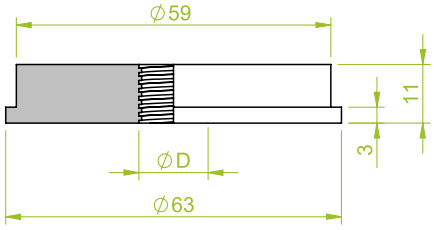
IG 1/8"





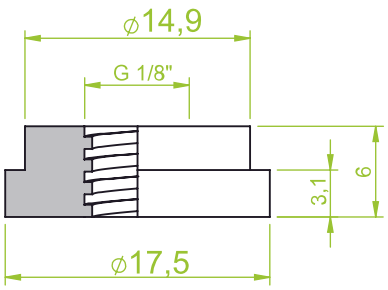
130.158

IG 1/8"



130.233

IG 1/8"



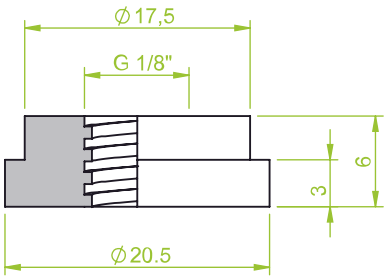
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

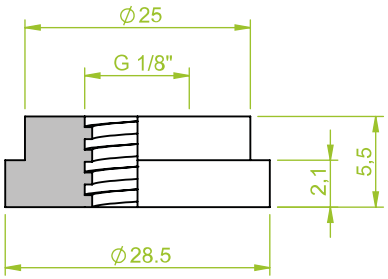
130.234

IG 1/8"



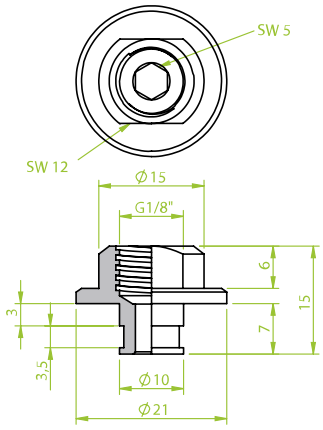
130.235

IG 1/8"



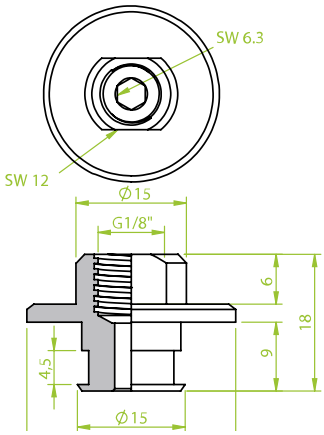
130.251

IG 1/8"



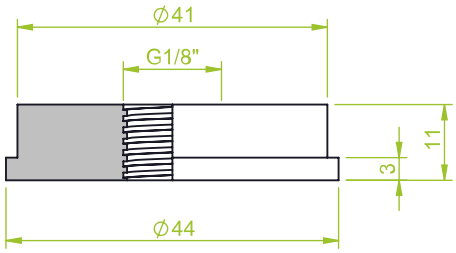
130.252

IG 1/8"



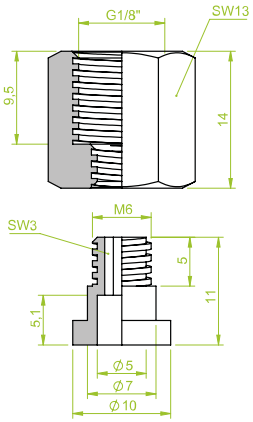
130.262

IG 1/8"



130.479

IG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

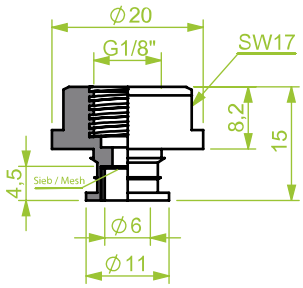
Stadtweg 30
D-78658 Zimmern o.R.

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

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

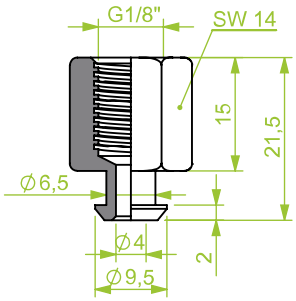
130.501

IG 1/8"



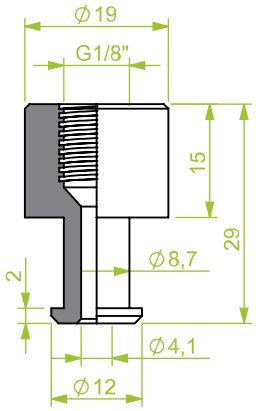
130.519

IG 1/8"



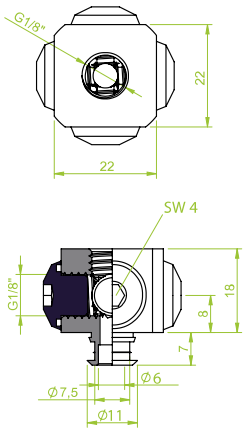
130.554

IG 1/8"



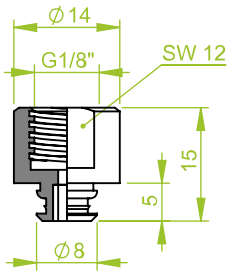
130.607

IG 1/8"



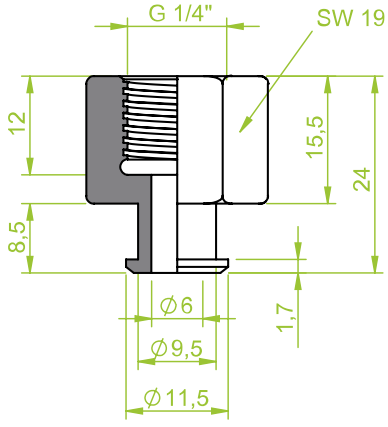
130.901

IG 1/8"



130.038

IG 1/4"



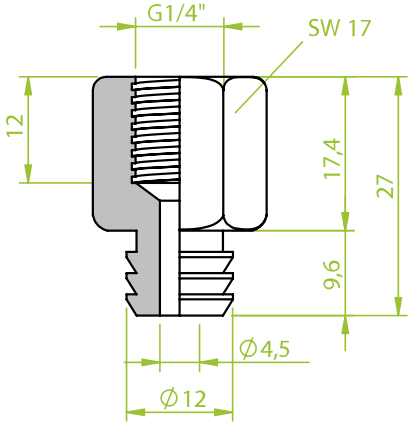
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

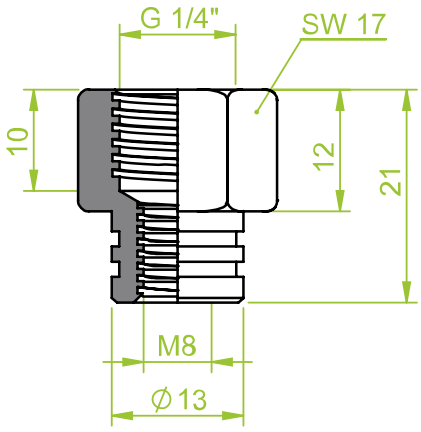
130.046

IG 1/4"



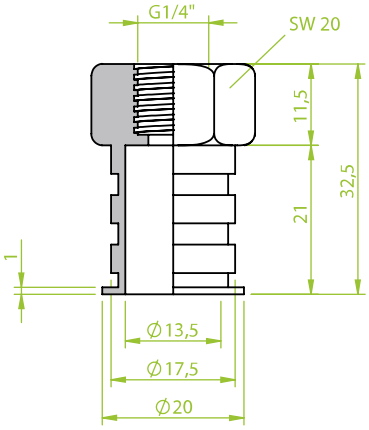
130.098

IG 1/4"



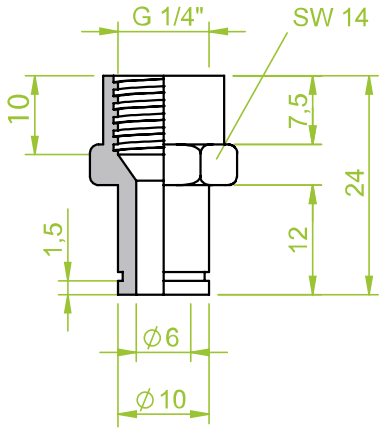
130.116

IG 1/4"



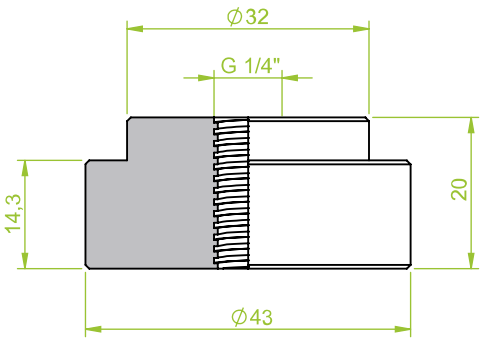
130.178

IG 1/4"



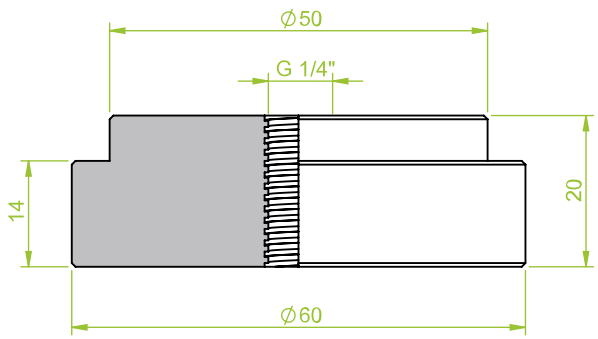
130.179

IG 1/4"



130.180

IG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

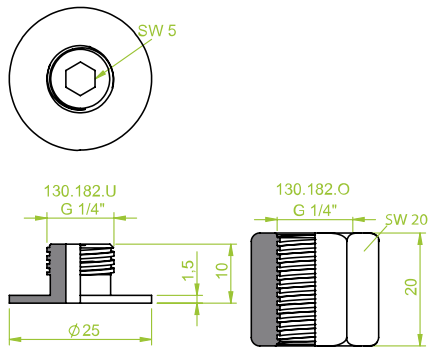
Stadtweg 30
D-78658 Zimmern o.R.

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

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

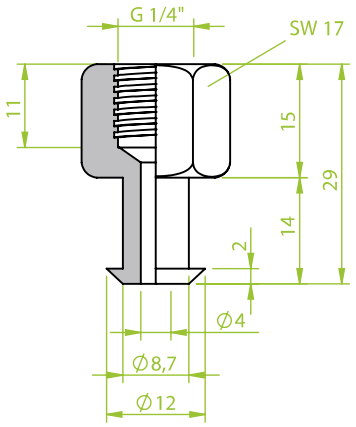
130.182

IG 1/4"



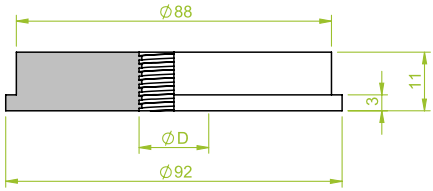
130.192

IG 1/4"



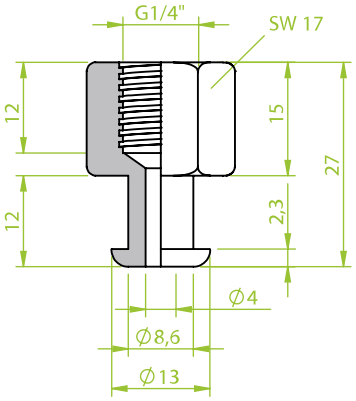
130.224

IG 1/4"



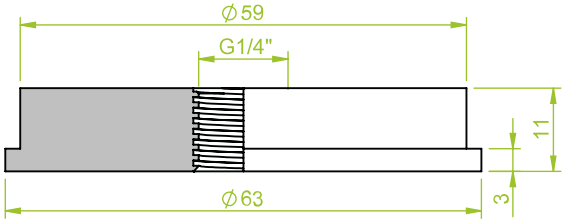
130.248

IG 1/4"



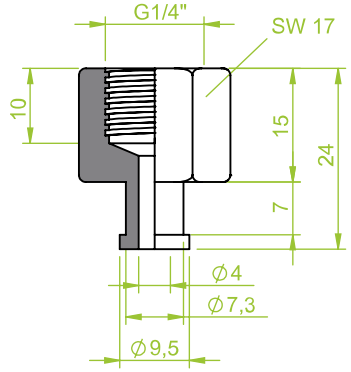
130.264

IG 1/4"



130.275

IG 1/4"



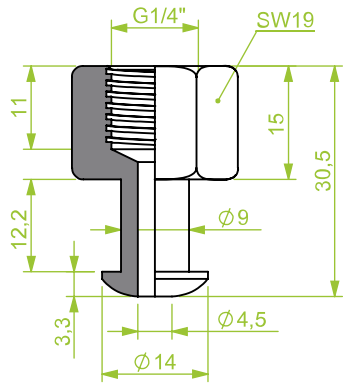
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

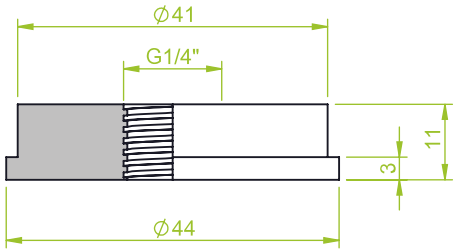
130.282

IG 1/4"



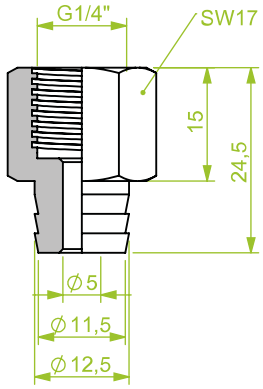
130.284

IG 1/4"



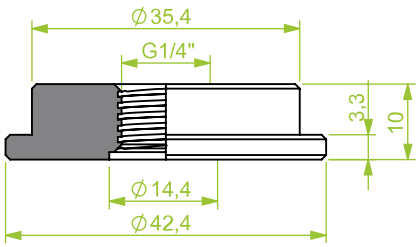
130.452

IG 1/4"



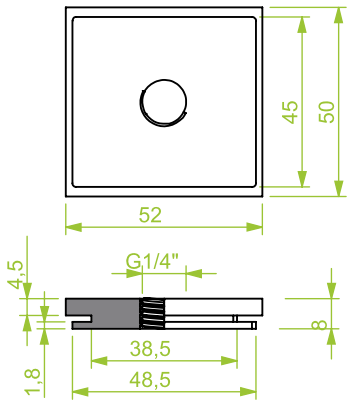
130.528

IG 1/4"



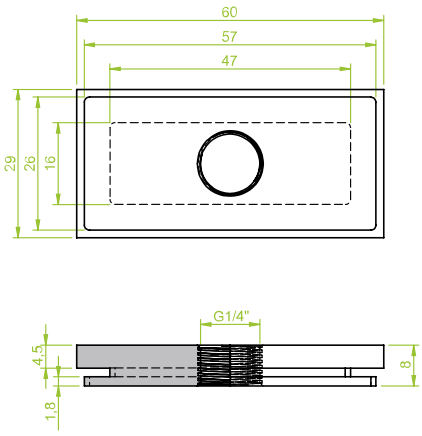
130.584

IG 1/4"



130.585

IG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

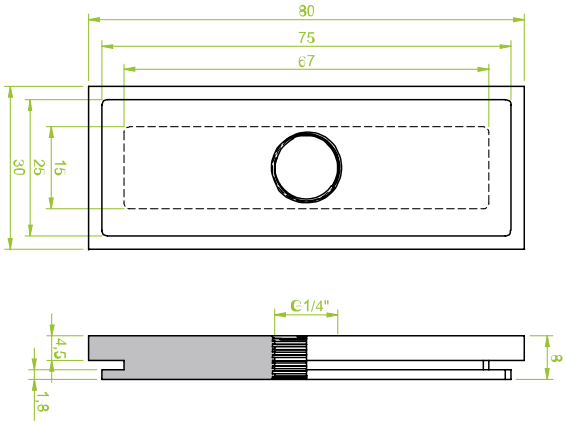
Stadtweg 30
D-78658 Zimmern o.R.

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

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

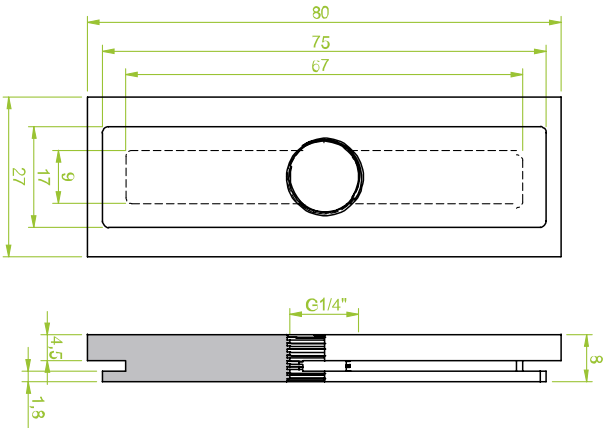
130.586

IG 1/4"



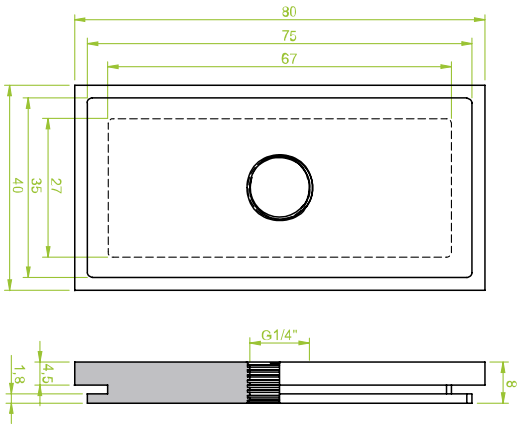
130.587

IG 1/4"



130.588

IG 1/4"



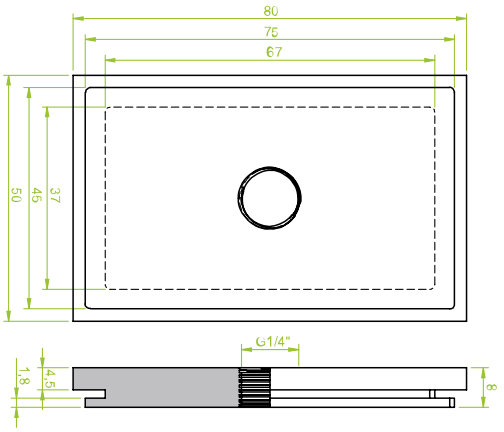
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

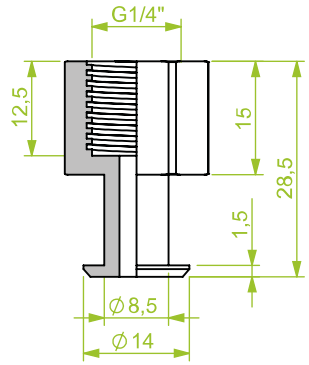
130.589

IG 1/4"



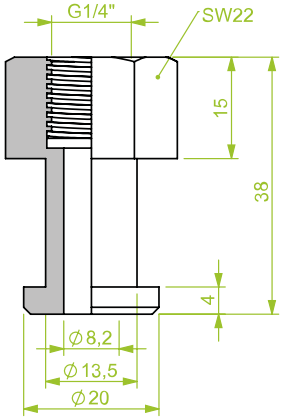
130.596

IG 1/4"



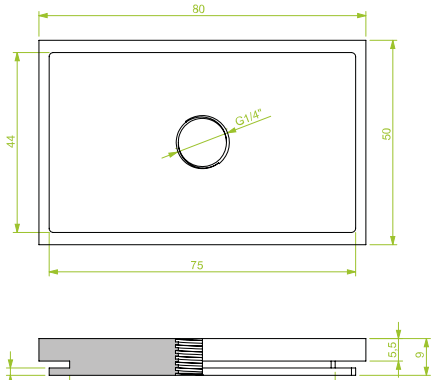
130.623

IG 1/4"



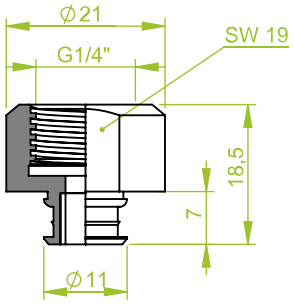
130.624

IG 1/4"



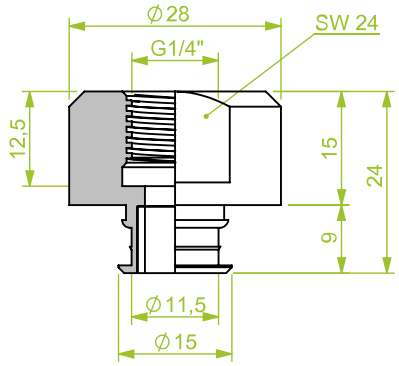
130.903

IG 1/4"



130.909

IG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

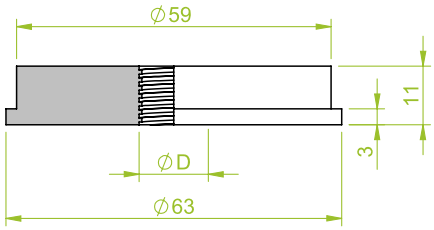
Email: info@morali-gmbh.de
www.morali-gmbh.de

139.264

IG 1/4"

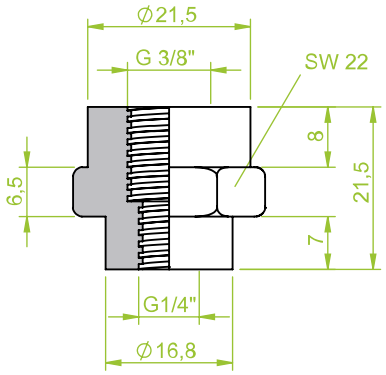
130.161

IG 3/8"



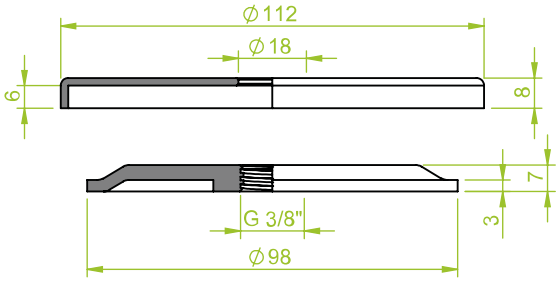
130.228

IG 3/8"



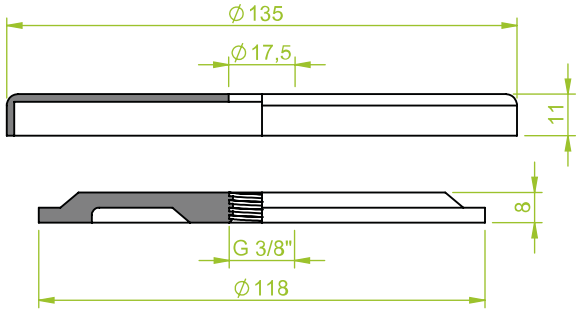
130.402

IG 3/8"



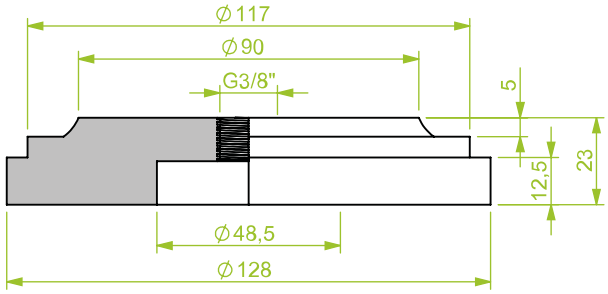
130.404

IG 3/8"



130.595

IG 3/8"



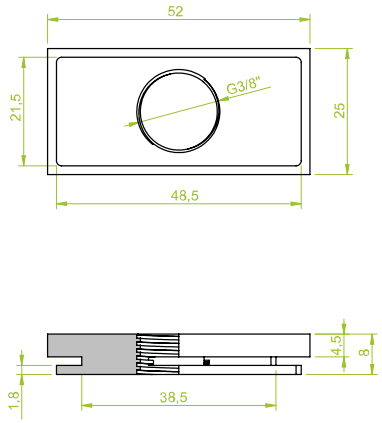
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Anschlußteile I *Fittings*

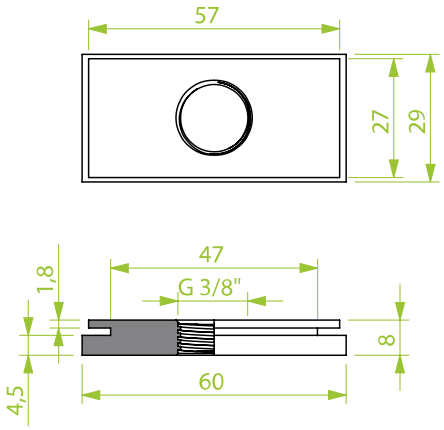
130.631

IG 3/8"



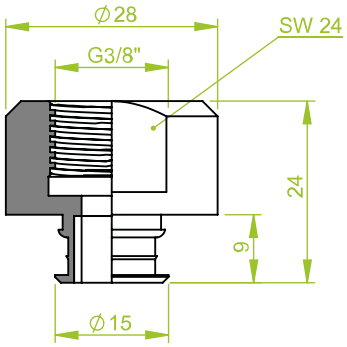
130.632

IG 3/8"



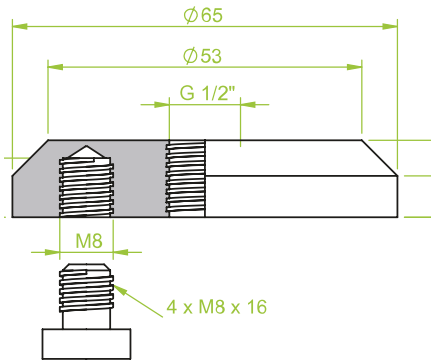
130.905

IG 3/8"



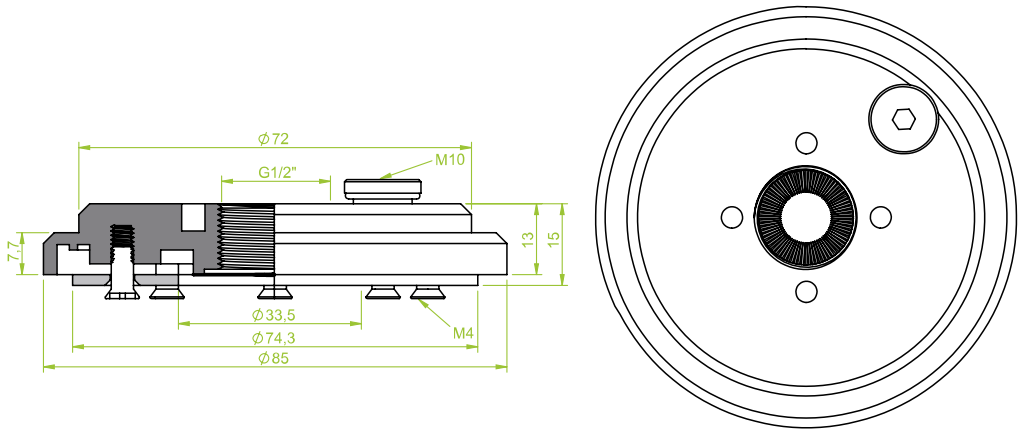
130.056

IG 1/2"



130.139

IG 1/2"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

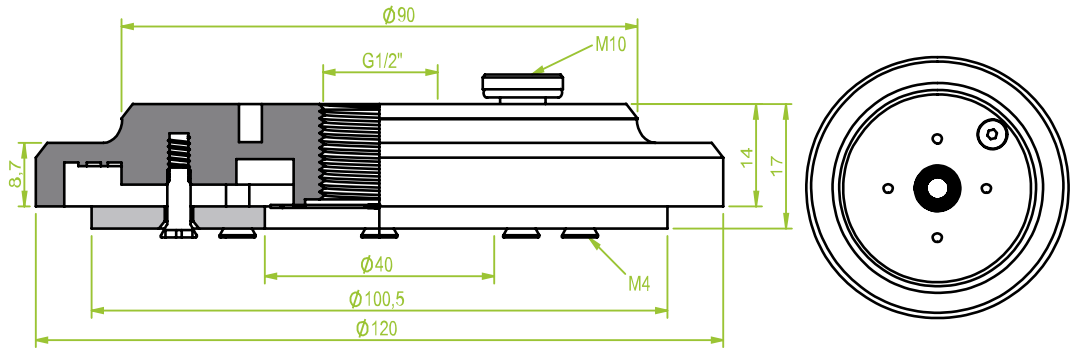
Stadtweg 30
D-78658 Zimmern o.R.

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

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

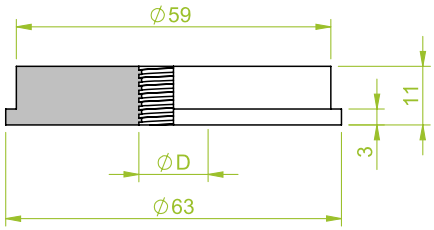
130.140

IG 1/2"



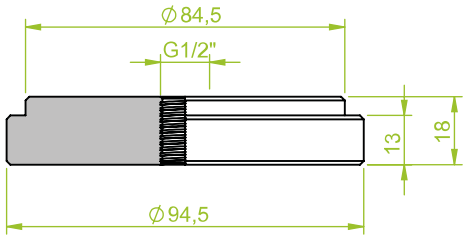
130.286

IG 1/2"



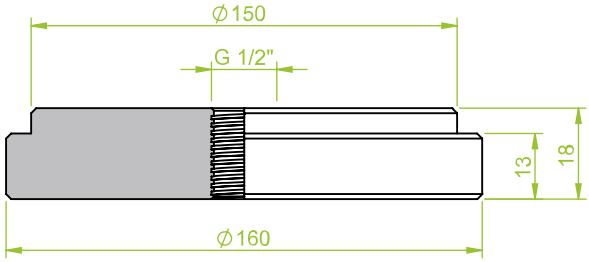
130.290

IG 1/2"



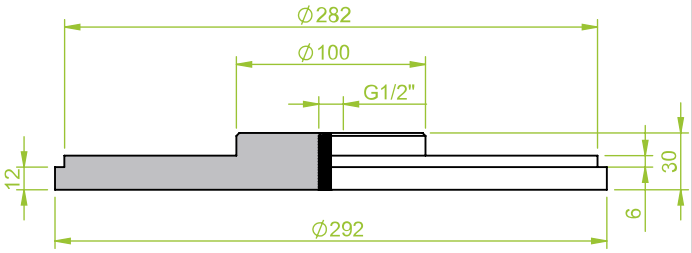
130.335

IG 1/2"



130.337

IG 1/2"

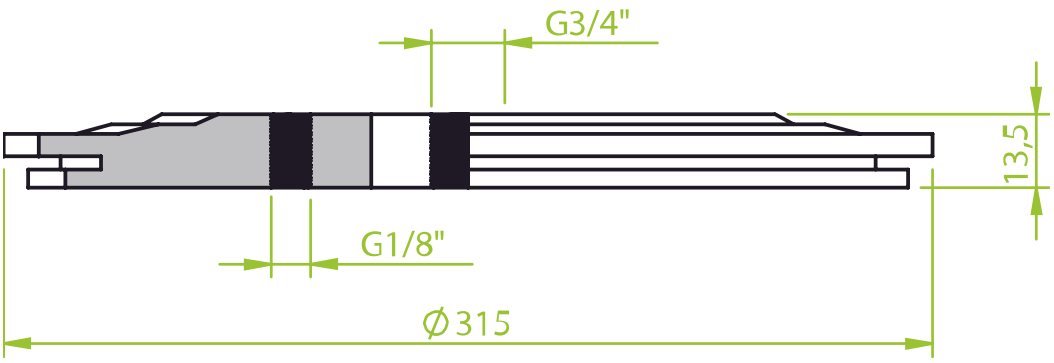


*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

130.076

IG 3/4"

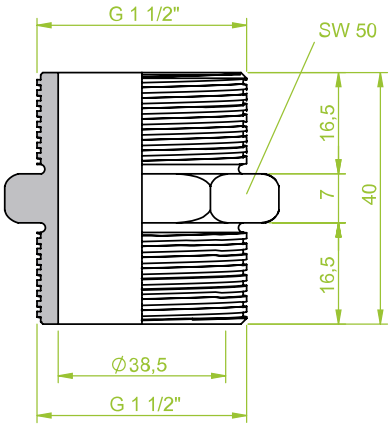


*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

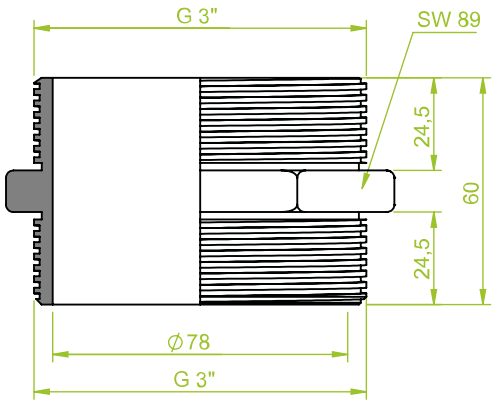
130.126

AG 1 1/2"	AG 1 1/2"



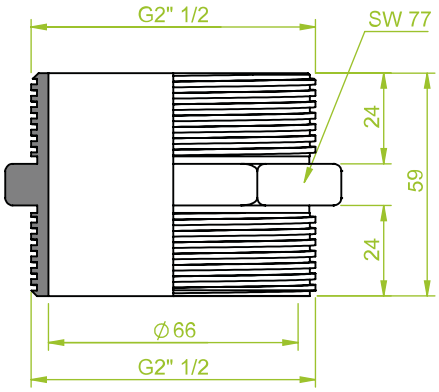
130.602

AG 3"	AG 3"



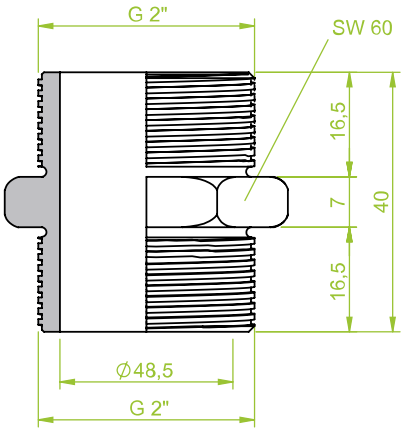
130.601

AG 2 1/2"	AG 2 1/2"



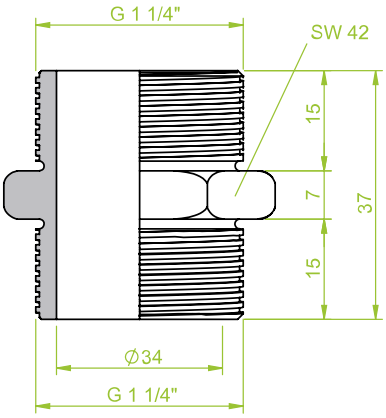
130.127

AG 2"	AG 2"



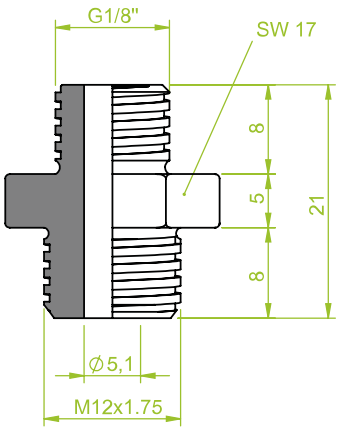
130.125

AG 1 1/4"	AG 1 1/4"



130.107

AG M12	AG 1/8"



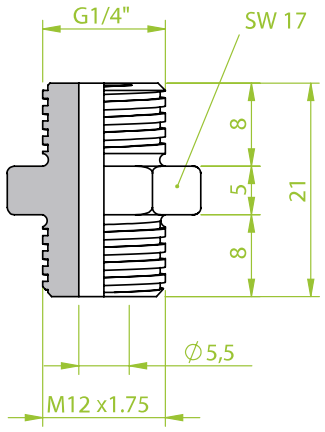
*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Doppelnippel | *Double nipples*

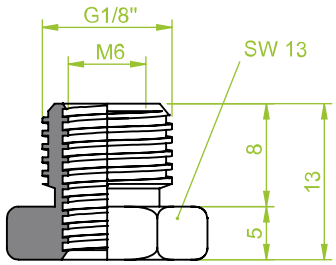
130.108

AG M12	AG 1/4"



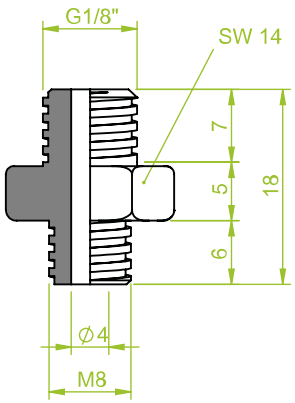
130.303

AG 1/8"	IG M6



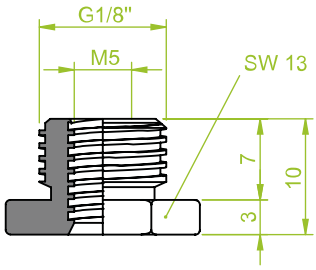
130.131

AG 1/8"	AG M8



130.302

AG 1/8"	IG M5

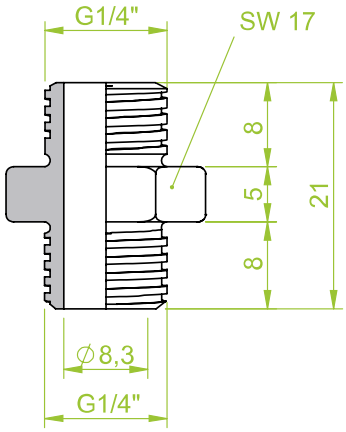


130.590

AG 1/8"	IG M5

130.191

AG 1/4"	AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

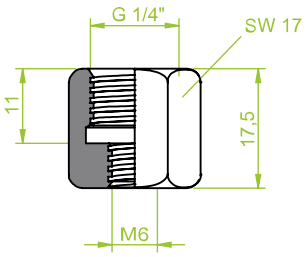
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Doppelnippel I *Double nipples*

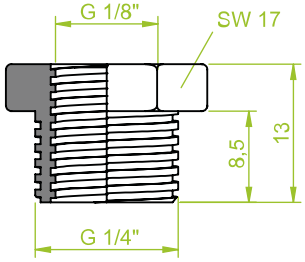
130.304

AG 1/4"	IG M6



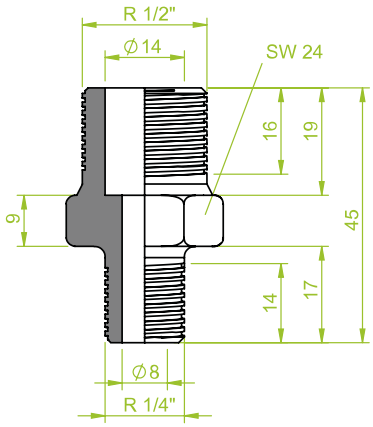
130.245

AG 1/4"	IG 1/8"



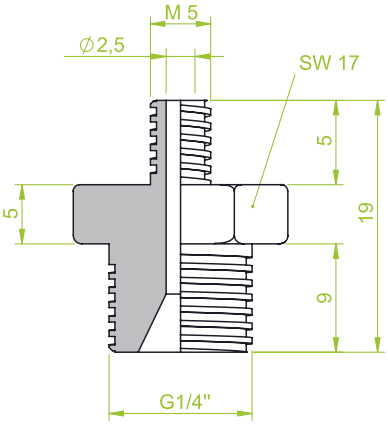
130.298

AG 1/4"	AG 1/2"



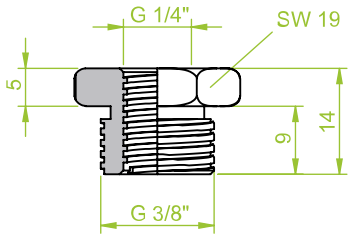
130.627

AG 1/4"	AG M5



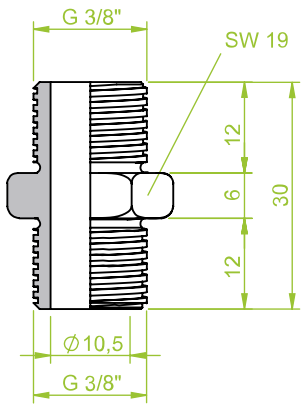
130.329

AG 3/8"	IG 1/4"



130.121

AG 3/8"	AG 3/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

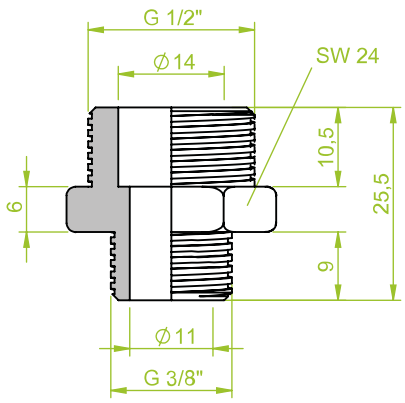
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Doppelnippel | *Double nipples*

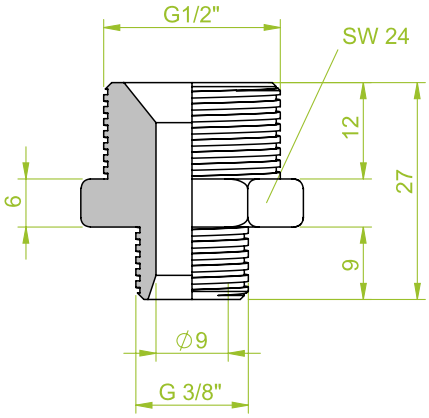
130.323

AG 1/2"	AG 3/8"



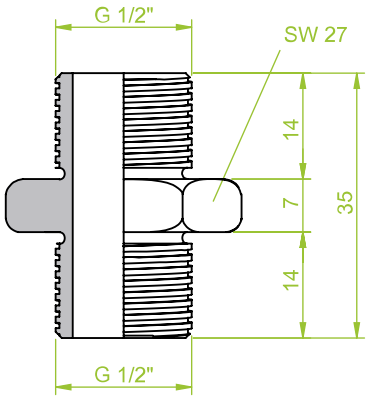
130.299

AG 1/2"	AG 3/8"



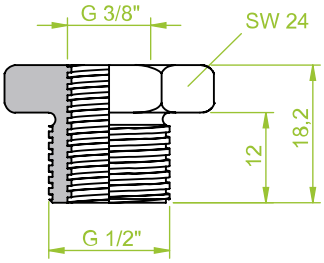
130.122

AG 1/2"	AG 1/2"



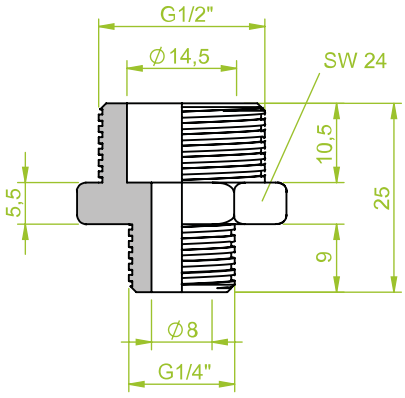
130.230

AG 1/2"	IG 3/8"



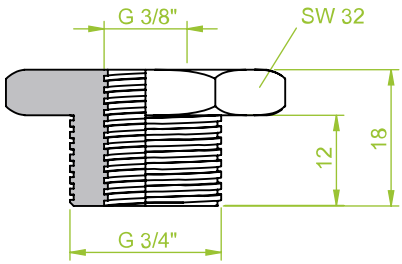
130.297

AG 1/2"	AG 1/4"



130.102

AG 3/4"	IG 3/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

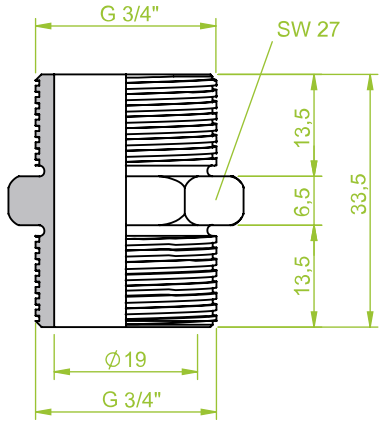
Fon: +49 741 - 17 52 60-0
Fax: +49 741 - 17 52 60-29

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

Doppelnippel | *Double nipples*

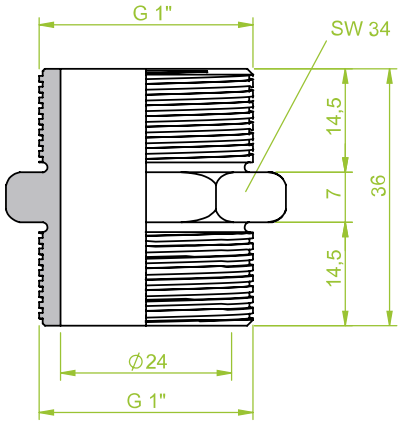
130.123

AG 3/4"	AG 3/4"



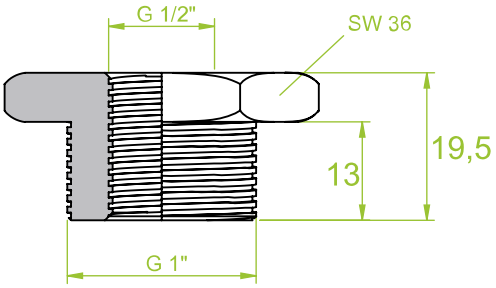
130.124

AG 1"	AG 1"



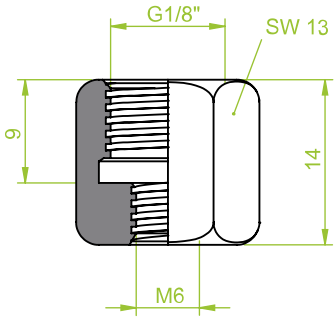
130.345

AG 1"	IG 1/2"



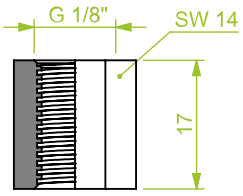
130.307

IG 1/8"	IG M6



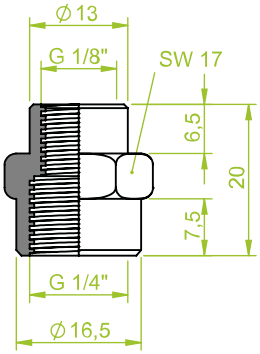
130.343

IG 1/8"	IG 1/8"



130.341

IG 1/4"	IG 1/8"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

Morali Produktionstechnik GmbH
Handling technology

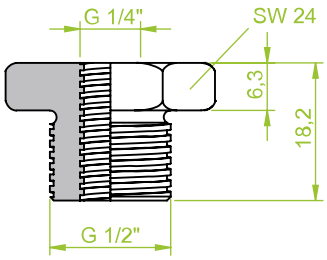
Stadtweg 30
D-78658 Zimmern o.R.

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

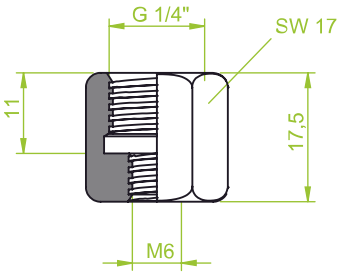
Email: info@morali-gmbh.de
www.morali-gmbh.de

Doppelnippel I *Double nipples*

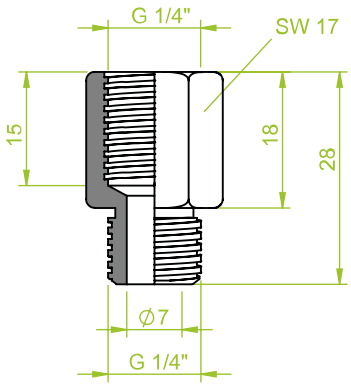
130.229	
IG 1/4"	AG 1/2"



130.308	
IG 1/4"	IG M6



130.078	
IG 1/4"	AG 1/4"



*** AG = Außengewinde | Male thread**

IG = Innengewinde | Female thread

MORALI VACTEC SYSTEMS

Morali Produktionstechnik GmbH
Handling technology

Stadtweg 30
D-78658 Zimmern o.R.

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

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

10.001.108 90
10.001.109 90
10.001.631 90
10.001.632 90
10.002.041 91
10.002.130 91
10.002.633 91
10.002.634 91
10.003.040 92
10.003.042 92
10.003.635 92
10.003.691 92
10.003.701 93
10.004.043 93
10.004.057 93
10.004.065 93
10.004.636 94
10.005.034 94
10.005.066 94
10.005.131 94
10.005.145 95
10.005.148 95
12.005.040 95
10.006.021 95
10.006.044 96
10.006.058 96
10.006.067 96
10.006.095 96
10.006.151 97
10.007.035 97
10.007.153 97
10.007.638 97
10.007.694 98
12.007.041 98
10.008.045 98
10.008.059 98
10.008.068 99
10.008.136 99
10.008.154 99
10.008.155 99
10.008.164 100
10.008.166 100
10.008.168 100
10.008.611 100
10.008.630 101
10.008.681 101
10.008.695 101
10.009.020 101
10.009.169 102
10.009.170 102
10.009.185 102
10.009.580 102
12.009.042 103
10.010.046 103
10.010.060 103
10.010.070 103
10.010.138 104
10.010.187 104
10.010.188 104
10.010.189 104
10.010.191 105
10.010.192 105
10.010.194 105
10.010.584 105
10.011.036 106
10.011.195 106
10.011.196 106
10.011.197 106
10.011.198 107
12.011.043 107
10.012.071 107
10.012.171 107
10.012.199 108
10.012.200 108
10.012.204 108
10.012.205 108
10.012.206 109
10.013.207 109
10.013.209 109
10.013.352 109
10.014.216 110
10.014.686 110
10.015.031 110
10.015.047 110
10.015.061 111
10.015.073 111
10.015.114 111
10.015.139 111
10.015.222 112
10.015.225 112
10.015.227 112
10.015.228 112
10.015.585 113
10.015.604 113
10.015.693 113
14.015.043 113
10.016.007 114
10.016.012 114
10.016.037 114
10.016.038 114
10.016.039 115
10.016.092 115
10.016.172 115
10.016.236 115
10.016.239 116
10.016.240 116
10.016.243 116
10.016.353 116
10.016.651 117
10.016.658 117
10.016.685 117
12.016.044 117
12.016.045 118
12.016.046 118
10.017.173 118
10.017.252 118
10.017.255 119
10.017.258 119
10.017.595 119
10.018.088 119
10.018.089 120
10.018.202 120
10.018.261 120
10.018.262 120
10.018.265 121
10.018.266 121
10.018.267 121
10.018.271 121
10.018.621 122

Artikelnummern I *Index*

10.018.679 122
10.019.272 122
10.019.274 122
10.020.008 123
10.020.011 123
10.020.015 123
10.020.019 123
10.020.048 124
10.020.062 124
10.020.074 124
10.020.093 124
10.020.112 125
10.020.116 125
10.020.140 125
10.020.175 125
10.020.176 126
10.020.212 126
10.020.278 126
10.020.280 126
10.020.282 127
10.020.284 127
10.020.285 127
10.020.286 127
10.020.290 128
10.020.291 128
10.020.293 128
10.020.297 128
10.020.405 129
10.020.586 129
10.020.597 129
10.020.613 129
10.020.626 130
10.020.647 130
10.020.675 130
13.020.074 130
14.020.052 131
10.020.0316 131
10.021.299 131
10.021.300 131
10.021.301 132
10.021.302 132
10.021.601 132
10.021.622 132
10.021.644 133
10.021.671 133
10.021.690 133
10.022.005 133
10.022.016 134
10.022.056 134
10.022.120 134
10.022.126 134
10.022.203 135
10.022.304 135
10.022.307 135
10.022.308 135
10.022.623 136
10.022.663 136
10.022.684 136
11.022.001 136
11.022.004 137
11.022.015 137
11.022.020 137
11.022.025 137
11.022.028 138
10.023.315 138
10.023.612 138
10.023.709 138
10.024.351 139
10.025.010 139
10.025.028 139
10.025.049 139
10.025.076 140
10.025.077 140
10.025.087 140
10.025.115 140
10.025.141 141
10.025.157 141
10.025.177 141
10.025.178 141
10.025.320 142
10.025.328 142
10.025.330 142
10.025.335 142
10.025.338 143
10.025.339 143
10.025.340 143
10.025.346 143
10.025.347 144
10.025.348 144
10.025.349 144
10.025.350 144
10.025.361 145
10.025.587 145
10.025.596 145
10.025.650 145
14.025.037 146
14.025.040 146
10.025.0332 146
10.026.032 146
10.026.363 147
10.026.364 147
10.026.366 147
10.027.104 147
10.027.213 148
10.027.367 148
10.027.368 148
10.027.370 148
10.027.371 149
10.027.373 149
10.027.374 149
10.027.646 149
10.028.054 150
10.028.098 150
10.028.376 150
10.028.379 150
10.028.380 151
10.028.381 151
10.028.551 151
10.028.616 151
11.028.005 152
11.028.016 152
10.029.384 152
10.029.385 152
10.029.582 153
10.030.050 153
10.030.063 153
10.030.078 153
10.030.079 154
10.030.102 154

10.030.103 154
10.030.142 154
10.030.158 155
10.030.179 155
10.030.322 155
10.030.355 155
10.030.386 156
10.030.394 156
10.030.398 156
10.030.399 156
10.030.401 157
10.030.409 157
10.030.590 157
10.030.606 157
10.030.614 158
10.030.617 158
10.030.668 158
10.030.672 158
13.030.030 159
13.030.073 159
14.030.044 159
10.031.055 159
10.031.637 160
10.031.683 160
10.032.022 160
10.032.105 160
10.032.111 161
10.032.121 161
10.032.127 161
10.032.165 161
10.032.418 162
10.032.704 162
11.032.006 162
11.032.012 162
11.032.017 163
11.032.021 163
11.032.026 163
11.032.029 163
14.032.051 164
10.033.419 164
10.033.578 164
10.033.579 164
10.033.642 165
10.034.094 165
10.034.106 165
10.034.180 165
10.034.395 166
10.034.397 166
13.034.075 166
14.034.053 166
10.035.025 167
10.035.081 167
10.035.143 167
10.035.427 167
10.035.428 168
10.035.429 168
10.035.431 168
10.035.432 168
10.035.433 169
10.035.435 169
10.035.436 169
10.036.439 169
10.036.444 170
10.037.446 170
10.038.333 170
10.038.437 170
10.038.449 171
10.038.451 171
10.038.553 171
10.039.452 171
10.039.454 172
10.040.051 172
10.040.064 172
10.040.082 172
10.040.101 173
10.040.124 173
10.040.125 173
10.040.144 173
10.040.181 174
10.040.357 174
10.040.440 174
10.040.457 174
10.040.459 175
10.040.461 175
10.040.462 175
10.040.466 175
10.040.591 176
10.040.605 176
10.040.625 176
10.040.627 176
10.040.674 177
10.040.692 177
14.040.045 177
10.041.673 177
10.042.099 178
10.042.122 178
10.042.468 178
11.042.007 178
11.042.013 179
11.042.018 179
11.042.022 179
10.043.469 179
10.043.470 180
10.044.615 180
10.044.664 180
10.045.083 180
10.045.084 181
10.045.474 181
10.045.476 181
10.045.688 181
10.048.479 182
10.048.481 182
10.048.482 182
10.049.003 182
10.050.017 183
10.050.052 183
10.050.183 183
10.050.484 183
10.050.485 184
10.050.488 184
13.050.016 184
14.050.017 184
10.052.123 185
10.052.491 185
11.052.014 185
11.052.023 185
10.053.100 186
10.053.128 186
11.053.008 186

Artikelnummern I *Index*

11.053.019 186
11.053.027 187
11.053.030 187
13.053.012 187
14.053.003 187
10.055.493 188
10.055.494 188
14.055.046 188
10.056.501 188
10.057.502 189
10.060.053 189
10.060.085 189
10.060.359 189
10.060.503 190
10.060.628 190
13.060.006 190
10.061.480 190
10.061.508 191
10.063.509 191
10.065.161 191
10.065.477 191
10.065.496 192
10.065.670 192
10.065.687 192
12.065.001 192
10.066.517 193
10.068.520 193
10.070.023 193
10.070.521 193
10.070.522 194
10.070.680 194
15.070.024 194
10.075.117 194
10.075.524 195
10.075.525 195
10.075.711 195
11.075.009 195
13.075.013 196
13.075.017 196
13.075.066 196
13.075.069 197
14.075.004 197
14.075.047 197
10.076.526 197
10.080.392 198
10.080.531 198
10.080.532 199
10.080.629 199
10.080.669 199
13.080.007 199
10.080.0361 200
10.083.334 200
10.085.086 200
10.087.538 200
10.087.539 201
10.090.511 201
13.090.060 201
10.095.540 201
13.095.008 202
13.096.014 202
14.096.005 202
10.100.096 203
10.100.393 203
13.100.018 203
13.100.029 204
14.100.048 204
10.104.667 205
10.105.549 205
13.106.023 205
11.107.033 206
13.109.022 206
10.110.118 206
11.110.010 207
13.110.040 207
14.112.001 207
14.112.002 207
10.120.702 208
11.120.044 208
13.120.009 208
10.135.146 208
13.140.064 209
10.150.119 209
11.150.011 210
11.150.038 210
13.150.010 211
13.150.019 211
13.150.054 212
10.152.561 212
11.152.039 212
10.160.013 212
10.160.014 213
10.160.563 213
10.160.593 214
13.191.011 214
10.200.026 215
13.200.068 215
13.225.020 215
10.240.607 216
13.252.059 216
15.252.038 217
13.282.058 217
13.288.062 218
15.288.032 218
15.288.033 219
13.300.021 219
10.350.097 220
13.382.065 220
210.004.073 222
220.004.042 222
220.004.135 222
210.005.027 222
210.005.028 223
220.005.017 223
220.005.034 223
220.005.043 223
220.005.044 224
220.005.118 224
210.006.074 224
210.006.075 224
210.006.219 225
220.006.032 225
220.006.033 225
220.006.125 225
220.006.127 226
210.007.076 226
210.007.077 226
210.007.168 226
220.007.007 227
220.007.123 227

210.008.010 227
210.008.078 227
210.008.079 228
210.008.160 228
220.008.025 228
210.009.166 228
210.009.197 229
210.009.202 229
220.009.015 229
220.009.045 229
220.009.105 230
210.010.008 230
210.010.036 230
210.010.080 230
210.010.081 231
210.010.184 231
210.010.805 231
220.010.014 231
220.010.019 232
220.010.020 232
220.010.021 232
220.010.029 232
220.010.047 233
220.010.048 233
220.010.096 233
220.010.124 233
220.010.126 234
221.010.003 234
222.010.001 234
240.010.011 234
240.010.028 235
210.011.001 235
210.011.018 235
210.011.025 235
210.011.029 236
210.011.082 236
210.011.083 236
210.011.141 236
210.011.176 237
210.011.212 237
212.011.011 237
220.011.008 237
220.012.011 238
220.012.024 238
220.012.108 238
220.012.122 238
210.013.003 239
210.013.013 239
210.013.201 239
210.014.064 239
211.014.009 240
212.014.001 240
220.014.009 240
220.014.013 240
220.014.016 241
220.014.023 241
220.014.049 241
221.014.004 241
222.014.002 242
230.014.013 242
230.014.026 242
250.014.015 242
210.015.011 243
210.015.012 243
210.015.015 243
210.015.052 243
210.015.084 244
210.015.143 244
210.015.210 244
210.015.800 244
214.015.012 245
220.015.022 245
220.015.053 245
220.015.132 245
210.016.002 246
210.016.009 246
210.016.026 246
210.016.063 246
210.016.086 247
210.016.156 247
210.016.205 247
210.016.207 247
210.016.220 248
212.016.012 248
220.016.054 248
210.017.007 248
210.018.067 249
210.018.068 249
210.018.069 249
210.018.070 249
210.018.071 250
210.018.097 250
210.018.178 250
220.018.001 250
220.018.005 251
220.018.012 251
220.018.030 251
220.018.041 251
220.018.055 252
220.018.063 252
220.018.066 252
221.018.005 252
221.018.027 253
222.018.003 253
222.018.012 253
230.018.014 253
240.018.010 254
210.019.044 254
210.019.059 254
210.019.060 254
210.019.093 255
210.019.155 255
230.019.003 255
210.020.031 255
210.020.037 256
210.020.053 256
210.020.054 256
210.020.094 256
210.020.095 257
210.020.102 257
210.020.104 257
210.020.150 257
210.020.161 258
210.020.169 258
210.020.181 258
210.020.185 258
210.020.190 259
210.020.217 259
210.020.801 259

Artikelnummern I *Index*

211.020.002 259
211.020.010 260
220.020.002 260
220.020.059 260
220.020.060 260
220.020.062 261
220.020.107 261
220.020.111 261
220.020.128 261
220.020.800 262
240.020.002 262
240.020.012 262
241.020.001 262
241.020.005 263
250.020.002 263
210.021.216 263
210.022.021 263
210.022.142 264
210.022.177 264
210.022.182 264
210.023.014 264
220.023.067 265
220.023.070 265
220.024.068 265
240.024.013 265
240.024.029 266
250.024.013 266
210.025.065 266
210.025.103 266
210.025.137 267
210.025.144 267
210.025.151 267
210.025.154 267
211.025.010 268
212.025.002 268
214.025.005 268
220.025.031 268
220.025.069 269
220.025.113 269
220.025.800 269
230.025.001 269
230.025.004 270
240.025.016 270
240.025.030 270
210.026.099 270
220.026.110 271
220.026.137 271
210.027.167 271
210.028.098 271
210.028.164 272
210.028.211 272
220.028.109 272
220.029.056 272
210.030.016 273
210.030.049 273
210.030.055 273
210.030.061 273
210.030.109 274
210.030.136 274
210.030.146 274
210.030.152 274
210.030.193 275
210.030.198 275
210.030.213 275
210.030.215 275
210.030.802 276
213.030.010 276
214.030.004 276
214.030.013 276
220.030.006 277
220.030.071 277
220.030.130 277
220.030.801 277
221.030.006 278
222.030.004 278
223.030.008 278
230.030.023 278
230.030.027 279
240.030.003 279
240.030.015 279
241.030.002 279
241.030.006 280
210.031.101 280
220.031.028 280
220.031.115 280
220.031.134 281
214.032.020 281
220.032.003 281
220.032.057 281
220.032.058 282
220.032.076 282
221.032.009 282
222.032.007 282
230.032.015 283
230.032.016 283
250.032.012 283
210.033.019 283
210.033.022 284
210.033.179 284
210.033.194 284
211.033.003 284
211.033.011 285
210.034.175 285
220.034.112 285
210.035.111 285
210.035.112 286
220.035.077 286
220.035.801 286
250.035.005 286
210.036.107 287
250.036.014 287
220.037.116 287
230.038.010 287
230.038.011 288
240.038.018 288
240.038.019 288
250.038.008 288
250.039.009 289
210.040.038 289
210.040.056 289
210.040.066 289
210.040.113 290
210.040.122 290
210.040.153 290
210.040.173 290
210.040.803 291
211.040.011 291
212.040.003 291
213.040.011 291

214.040.014 292
220.040.010 292
220.040.040 292
220.040.079 292
220.040.802 293
221.040.007 293
222.040.005 293
223.040.006 293
240.040.001 294
240.040.004 294
240.040.021 294
240.040.022 294
241.040.003 295
241.040.007 295
250.040.010 295
210.041.108 295
240.041.031 296
210.042.020 296
210.042.123 296
210.042.124 296
211.042.004 297
211.042.012 297
210.043.005 297
211.043.014 297
212.043.005 298
220.043.004 298
210.044.058 298
210.044.121 298
213.044.008 299
214.044.001 299
220.045.103 299
210.046.174 299
220.048.095 300
210.050.032 300
210.050.039 300
210.050.057 300
210.050.115 301
210.050.116 301
210.050.117 301
210.050.118 301
210.050.119 302
210.050.221 302
210.050.804 302
211.050.005 302
213.050.012 303
220.050.038 303
220.050.081 303
220.050.082 303
220.050.083 304
220.050.084 304
220.050.120 304
220.050.803 304
223.050.001 305
223.050.009 305
240.050.005 305
241.050.004 305
241.050.008 306
210.052.032 306
210.052.125 306
210.052.129 306
211.052.005 307
211.052.013 307
212.052.013 307
220.052.085 307
210.053.017 308
212.053.009 308
214.055.015 308
210.056.127 308
240.058.025 309
210.060.023 309
210.060.130 309
211.060.012 309
211.060.015 310
212.060.004 310
220.060.026 310
220.060.037 310
220.060.086 311
220.060.087 311
220.060.100 311
220.060.131 311
221.060.010 312
221.060.026 312
222.060.006 312
220.062.035 312
221.062.002 313
222.062.009 313
243.069.001 313
210.070.105 313
213.070.013 314
213.070.800 314
214.070.800 314
223.070.800 314
224.070.800 315
210.075.033 315
210.075.051 315
210.075.128 315
211.075.006 316
213.075.038 316
214.075.016 316
210.078.131 317
211.078.016 317
213.078.007 317
215.080.003 318
210.082.133 318
243.084.002 319
213.085.006 319
213.085.009 319
213.085.016 320
214.085.002 320
222.085.010 321
223.085.007 321
224.085.001 321
220.088.036 321
214.100.017 322
210.110.034 322
211.110.007 322
210.115.047 322
211.115.017 323
213.115.033 323
214.125.018 324
210.150.035 324
211.150.008 325
210.155.048 325
213.200.022 326
215.200.007 326
210.210.135 327
30.004002.002 329
30.004002.003 329
30.007004.004 329

Artikelnummern I *Index*

30.007004.005 330
30.010004.006 330
32.010004.006 330
30.010005.007 331
32.010005.007 331
30.010006.008 331
32.010006.008 331
30.012004.029 332
30.013007.030 332
30.014007.074 332
30.014007.076 333
30.015005.017 333
30.015008.031 333
30.017009.073 334
30.018006.018 334
30.019005.032 334
30.020004.009 334
32.020004.009 335
30.020005.010 335
32.020005.010 335
30.020006.011 335
32.020006.011 336
30.020008.012 336
32.020008.012 336
30.020012.033 336
31.020012.002 337
30.021013.072 337
30.024008.019 337
30.025009.040 337
30.025017.077 338
30.030004.013 338
32.030004.013 339
30.030005.014 339
32.030005.014 340
30.030006.015 340
32.030006.015 341
30.030008.016 341
32.030008.016 342
30.030010.020 342
30.030012.042 342
31.030012.003 343
30.036012.021 343
30.040012.043 343
31.040012.004 344
33.040020.017 344
35.040020.009 344
33.042018.033 344
30.045015.022 345
30.045015.045 345
33.045015.022 345
33.050020.005 345
33.050020.006 346
33.050020.019 346
35.050020.010 346
30.050030.047 346
30.053012.071 347
30.055012.044 347
31.055012.005 347
30.060020.023 348
30.060020.069 348
33.060020.008 349
33.060030.101 349
33.060038.002 349
30.060045.048 349
34.067028.0829 350
30.075025.024 350
33.075025.022 351
30.075040.049 351
31.075040.006 351
33.080040.103 352
30.085028.025 352
30.085028.063 352
33.090030.102 352
30.090050.066 353
33.096027.023 353
35.100030.055 353
35.100030.056 353
33.100032.006 354
33.100032.007 354
30.100035.026 354
30.100035.064 355
33.100050.104 355
35.100055.007 355
35.100055.054 355
33.110065.032 356
33.116027.024 356
35.120030.018 357
33.120060.105 357
30.120090.050 357
31.120090.008 357
35.125055.019 358
33.140070.106 358
33.145034.026 359
35.150055.021 359
30.150075.001 360
31.150075.001 360
30.180006.018 361
33.190090.004 361
33.190090.034 362
35.200020.022 362
33.200030.021 363
35.200030.023 363
35.200035.024 364
35.200040.025 364
35.200040.026 364
33.200055.027 365
33.200055.039 365
35.200055.027 366
35.200080.028 366
35.200100.032 367
35.250055.005 367
35.250080.029 368
35.250080.030 368
33.280100.033 368
33.280100.043 369
35.280100.001 369
35.280100.033 370
35.300030.037 370
35.300040.038 371
33.300055.029 371
35.300055.006 372
35.300055.035 372
35.300055.036 373
30.300080.051 373
31.300080.010 374
33.300100.030 374
35.300120.040 375
35.300120.041 375
30.300150.052 375

31.300150.011 376
35.370070.042 376
35.370070.043 377
35.430180.003 377
35.450130.002 378
35.450150.008 378
33.450156.035 379
35.470060.044 379
35.500180.046 380
35.580180.048 380
35.750200.049 381
40.025008.011 383
40.025015.010 383
40.035028.017 383
40.043015.018 383
40.045015.012 384
40.045028.019 384
44.050025.001 384
40.052025.006 384
40.052025.015 385
40.060021.020 385
40.060029.007 385
43.060030.101 385
44.070030.002 386
40.075025.013 386
40.079029.008 387
40.080030.003 387
40.080040.001 388
43.080040.102 388
40.080050.004 389
43.097055.001 389
43.100050.103 389
43.140070.104 390
45.205082.003 390
45.350100.006 391
45.400200.008 391
45.400200.009 391
80.005 397
80.009 397
80.010 397
80.012 397
80.013 398
80.014 398
80.039 398
80.044 398
80.045 399
80.050 399
80.052 399
80.053 399
80.054 400
80.055 400
80.056 400
80.085 400
80.086 401
80.095 401
80.096 401
80.097 401
80.098 402
80.103 402
80.104 402
80.105 402
80.106 403
80.107 403
80.120 403
80.121 403
80.122 404
80.123 404
80.124 404
80.125 404
80.126 405
80.127 405
80.128 405
80.129 405
80.130 406
80.131 406
80.138 406
80.149 406
80.150 407
80.152 407
80.153 407
80.160 407
80.523 408
80.524 408
80.525 408
80.526 408
80.530 409
80.531 409
80.532 409
80.533 409
80.534 410
80.535 410
80.536 410
130.011 411
130.014 411
130.025 411
130.026 411
130.523 411
130.111 411
130.001 412
130.010 412
130.013 412
130.022 412
130.023 412
130.024 412
130.032 413
130.037 413
130.094 413
130.134 413
130.153 413
130.195 413
130.200 414
130.244 414
130.283 414
130.300 414
130.301 414
130.310 414
130.311 415
130.317 415
130.373 415
130.436 415
130.536 415
130.537 415
130.560 416
130.565 416
130.566 416
130.591 416
130.599 416
130.604 416
130.613 417

Artikelnummern I *Index*

130.626 417
130.629 417
130.633 417
130.906 417
130.039 417
130.103 418
130.104 418
130.105 418
130.312 418
130.314 418
130.315 418
130.339 419
130.340 419
130.640 419
130.040 419
130.247 419
130.256 419
130.628 420
130.177 420
130.350 420
130.553 420
130.003 420
130.006 420
130.009 421
130.012 421
130.021 421
130.030 421
130.033 421
130.036 421
130.059 422
130.063 422
130.064 422
130.077 422
130.085 422
130.087 422
130.093 423
130.095 423
130.112 423
130.132 423
130.135 423
130.147 424
130.181 424
130.188 424
130.205 424
130.238 424
130.242 424
130.250 425
130.291 425
130.334 425
130.480 425
130.507 425
130.510 425
130.520 426
130.524 426
130.538 426
130.539 426
130.540 426
130.541 426
130.546 427
130.549 427
130.552 427
130.594 427
130.597 427
130.603 427
130.605 428
130.610 428
130.611 428
130.619 428
130.620 428
130.630 428
130.900 429
130.002 429
130.034 429
130.042 429
130.043 429
130.044 429
130.048 430
130.049 430
130.071 430
130.090 430
130.097 430
130.099 430
130.100 431
130.101 431
130.113 431
130.145 431
130.175 431
130.176 431
130.183 432
130.184 432
130.190 432
130.193 432
130.194 432
130.204 432
130.207 433
130.208 433
130.210 433
130.216 433
130.249 433
130.274 433
130.281 434
130.293 434
130.294 434
130.327 434
130.390 434
130.438 434
130.451 435
130.504 435
130.508 435
130.518 435
130.521 435
130.542 435
130.543 436
130.551 436
130.559 436
130.598 436
130.606 436
130.609 436
130.614 437
130.617 437
130.622 437
130.902 437
130.908 437
130.295 437
130.296 438
130.600 438
130.904 438
130.372 438
130.405 438

130.616 438
130.406 439
130.005 439
130.347 439
130.374 439
130.263 439
130.272 439
130.338 440
130.007 440
130.015 440
130.017 440
130.018 440
130.019 440
130.020 441
130.035 441
130.041 441
130.061 441
130.065 441
130.086 441
130.092 442
130.096 442
130.109 442
130.110 442
130.114 442
130.136 442
130.137 443
130.138 443
130.158 443
130.233 443
130.234 444
130.235 444
130.251 444
130.252 444
130.262 444
130.479 444
130.501 445
130.519 445
130.554 445
130.607 445
130.901 445
130.038 445
130.046 446
130.098 446
130.116 446
130.178 446
130.179 446
130.180 446
130.182 447
130.192 447
130.224 447
130.248 447
130.264 447
130.275 447
130.282 448
130.284 448
130.452 448
130.528 448
130.584 448
130.585 448
130.586 449
130.587 449
130.588 449
130.589 450
130.596 450
130.623 450
130.624 450
130.903 450
130.909 450
139.264 451
130.161 451
130.228 451
130.402 451
130.404 451
130.595 451
130.631 452
130.632 452
130.905 452
130.056 452
130.139 452
130.140 453
130.286 453
130.290 453
130.335 453
130.337 453
130.076 454
130.126 455
130.602 455
130.601 455
130.127 455
130.125 455
130.107 455
130.108 456
130.303 456
130.131 456
130.302 456
130.590 456
130.191 456
130.304 457
130.245 457
130.298 457
130.627 457
130.329 457
130.121 457
130.323 458
130.299 458
130.122 458
130.230 458
130.297 458
130.102 458
130.123 459
130.124 459
130.345 459
130.307 459
130.343 459
130.341 459
130.229 460
130.308 460
130.078 460