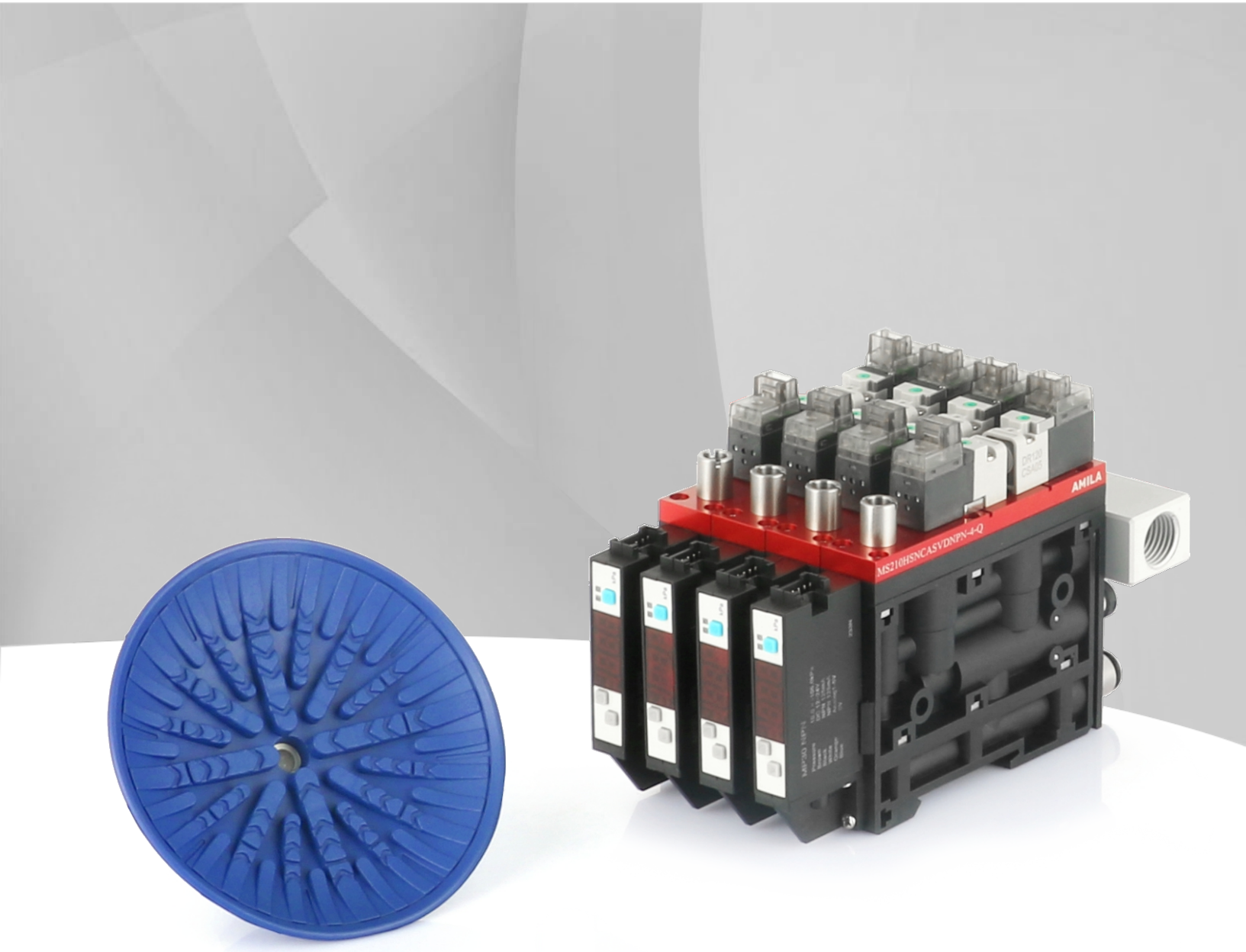
AMILA



Vacuum Automation

Comprehensive catalogue of vacuum components

www.amila-tech.com

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AMILA

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Company profile

AMILA Automation Technology Company was founded in 2017, Suzhou, China. We develop and manufacture vacuum components, such as vacuum suction cups, vacuum generators, and other necessary elements for vacuum automation.

In AMILA, we know that to succeed in today's manufacturing environment, just focusing on vacuum products is not enough. We must to pay more attention to customers themselves and know customers' needs. Maybe our business is vacuum grabbing, but our focus is always on you. we hope can help you simplify your work, we're not only your supplier of vacuum components, but also your special expert in vacuum application. Understand your operation comprehensively and provide you perfect solution.

We apply the expertise of vacuum gripping technology to provide correct vacuum components for all walks of life, and comprehensively improve your production efficiency, product quality and overall cost-effectiveness by applying rich knowledge. Whether you belong to packaging, automobile,carpentry, electronics, lithium battery, photovoltaic, food,medical treatment, robotics or any other industry, as partner,we have the same working enthusiasm as you, we understand the challenges you are facing,we maintain a friendly, honest relationship and the family spirit of mutual trust. In AMILA, we are proud to simplify your life and boost your success. Everyone will contribute their own unique strength,and finally form a truly complete partnership.



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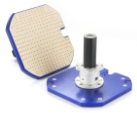
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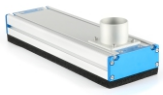
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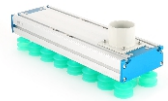
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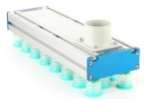
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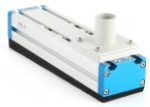
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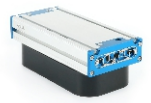
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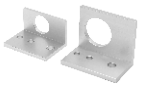
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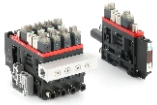
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Vacuum degree

The difference between standard atmospheric pressure and absolute pressure.

Unit of pressure

Positive pressure unit conversion table

	Pa(N/m^2)	kPa	bar	kg/cm^2	torr	psi(ibf/in^2)	inHg
1 Pa	1	0.001	0.00001	10.1792×10^{-6}	7.50062×10^{-3}	0.145038×10^{-3}	0.3×10^{-3}
1 kPa	1,000	1	0.01	10.1792×10^{-3}	7.50062	0.145038	0.3
1 bar	100,000	100	1	1.01972	750.062	14.5038	30
1 kg/cm^2	98,066.5	98.0665	0.980665	1	735.559	14.2233	29.42
1 torr	133.322	0.133322	1.33322×10^{-3}	1.35951×10^{-3}	1	19.3368×10^{-3}	0.04
1 psi	6,894.76	6.89476	68.9476×10^{-3}	70.3096×10^{-3}	51.7149	1	2.07

Negative pressure unit conversion table

	mbar	kPa	-kPa	%vacuum	torr	-mmHg	-inHg
Atmospheric pressure	1,013	101.3	0	0	760	0	0
	913	91.3	10	9.9	685	75	3
	813	81.3	20	19.7	610	150	6
	713	71.3	30	29.6	535	225	9
	613	61.3	40	39.5	460	300	12
	513	51.3	50	49.3	385	375	15
	413	41.3	60	59.2	310	450	18
	313	31.3	70	69.1	235	525	21
	213	21.3	80	79	160	600	24
	113	11.3	90	89	85	675	27
Absolute vacuum	0	0	101.3	100	0	760	30

Flow rate

The volume of air passing through a specified cross section per unit of time.

Flow rate unit conversion table

	m^3/s	m^3/h	NL/min	NL/s	ft^3/min(scfm)
1 m^3/s	1	3,600	60,000	1,000	2,118.9
1 m^3/h	0.28×10^{-3}	1	16.6667	0.2778	0.5885
1 NL/min	16.67×10^{-6}	0.06	1	0.0167	0.035
1 NL/s	1×10^{-3}	3.6	60	1	2.1189
1 ft^3/min	0.472×10^{-3}	1.6992	28.32	0.4720	1

Vacuum generation

The high speed flow of compressed air absorbs the air in a vacuum chamber so that the vacuum chamber generates negative pressure to form a vacuum.

Material properties

Material	Short time contact temperature °C ≤30s	Long time contact temperature °C >30s	Wear resistance	Oil resistance	Weather resistance	Specific Resistance
N-nitrile rubber	-20 ~ +110	-10 ~ +80	◎	◎	○	-
S-silicone rubber	-40 ~ +250	-30 ~ +200	×	×	◎	-
GN-conductive nitrile rubber	-10 ~ +100	-10 ~ +70	◎	◎	○	10^5-10^9
GS - silicone rubber	-30 ~ +200	-20 ~ +160	×	×	○	10^5-10^9
GHN - conductive seamless nitrile rubber	-20 ~ +110	-10 ~ +80	◎	◎	○	10^5-10^9
TPE - polyurethane rubber	+10 ~ +60	+10 ~ +40	◎	◎	◎	-
F - fluororubber	-10 ~ +350	-5 ~ +300	◎	○	○	-
HT1 - high-temperature/seamless material	-10 ~ +180	-5 ~ +160	◎	◎	◎	-
NR - natural rubber	-20 ~ +80	-10 ~ +60	◎	×	△	-
CR - neoprene	-20 ~ +80	-10 ~ +60	◎	△	◎	-

◎: Excellent ○: Good △: Normal ×: None

Vacuum suction cup storage instructions

Temperature
The appropriate storage temperature of vacuum suction cup is 15°C to 25°C (59°F-77°F).

Humidity
The vacuum suction cup storage environment should have a relative humidity of less than 65% without condensation, and should not be extremely humid or dry.

Sunshine
Please store it in a dark place and do not expose it to direct sunlight or any high intensity UV lamp.

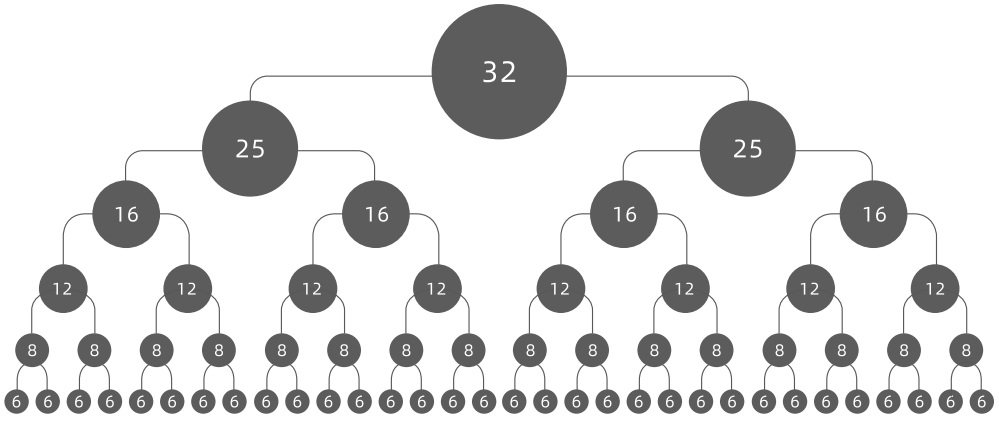
Radiation
Please do not expose the product to ionizing radiation.

Ozone
Ozone will cause serious damage to the product.

Deformation
The product should be stored in an adequate space and not squeezed.

Inventory turnover
Please manage the inventory according to the FIFO (First In First Out) principle so as to ensure that the latest manufactured or delivered products are always in the warehouse.

Pipe layout



General uses for the domestic market

• The specification of a hose of no more than φ16 means the outer diameter of the hose, and more than φ16 the inner diameter of the hose.
• In this diagram, the calculation associated with the diverter or hoses for air flow diverting uses approximate values equivalent to the actual air flow path diameter and cross-section area. More precisely, the diagram is not an equivalent diagram but a reference for customers to select models.

Industry application symbol description

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Industrial UI	Industrial Definition	Brief Description
	Packaging (carton)	Packaging industry; mainly for carton handling, logistics, palletizing, storage, etc., characterized by that the suctioned workpiece is inclined to be deformed, is breathable and of medium weight and variable sized, and requires the suction cup to be highly wear-resistant
	Packaging (plastic bag)	Packaging industry; mainly for gripping, piling and handling of plastic bags, shopping bags, cat and dog food bags, etc., characterized by that the suctioned workpiece can be soft or hard, or wrinkled, and requires the suction cup to be highly adaptive to self-deformation
	Glass	Glass industry; mainly for handling and gripping of general glass, industrial glass, float glass, etc., and characterized by that the suctioned workpiece is heavy, smooth and hard and requires strong lateral gripping force and the suction cup to be highly secure.
	Sheet metal stamping and cutting(metal sheets)	Sheet metal industry; mainly for handling, fixing and processing of metal sheets, etc., characterized by that the suctioned workpiece is inclined to deform and has severe oil stains on its surface, and the curved sheet metal is heavy and requires the suction cup to generate a strong support force inside and to be highly skid-resistant and anti-deforming
	Sheet metal stamping and cutting(metal slabs)	Sheet metal industry; mainly for handling, fixing and processing of metal slabs, etc., characterized by that the suctioned workpiece is large, and heavy with severe oil stains on its surface and requires the suction cup to generate a strong support force inside and to be highly skid-resistant.
	Automobile manufacture	Automotive industry; mainly for handling of glass, bent metal sheets, tyres, etc., characterized by that the suctioned workpiece has a non-flat curved surface of sheet metal or a smooth glass surface, is heavy and requires the suction cup to be highly skid-resistant
	Wood	Woodworking industry; mainly for handling of wood boards, fiberboards, woodcraft works, etc., characterized by that the suctioned workpiece has an uneven and breathable surface and requires the suction cup to generate a strong support force inside and is well sealed
	Textile	Textile industry; mainly for handling of fabric, gauze, etc., characterized by that the suctioned workpiece is inclined to deform, is breathable and light and requires the suction cup to generate large vacuum flow
	Composite material	Mainly for handling of leather, fiberboards and other composite materials, characterized by that the suctioned workpiece is breathable, light and corrugated and requires the suction cup to generate large vacuum flow
	Stone	Stone industry; mainly for handling of marble, bricks, metal grid plates, characterized by that the suctioned workpiece has an uneven surface and requires the suction cup to be highly anti-deforming
	Injection molding	Injection molding industry; mainly for handling in the late process of injection molding, characterized by high temperature resistance and workpieces with curved surfaces and requiring the suction cup to be resistant to high temperatures and highly anti-deforming
	Robot industry	Robot terminal parts used in conjunction with a robot to carry out gripping and handling, characterized by fast response speed, wire-saving integrated-type and high safety coefficient
	Mechanical equipment	Mechanical equipment terminal parts used in conjunction with smart equipment to carry out gripping and handling actions and characterized by small size, light weight, space saving and being metal products mostly
	3C product (display film)	For handling of mobile phones, tablet displays, etc., characterized by no mark or deformation, compactness, etc.
	3C product (PCB board)	Electronic industry; mainly for handling of electronic components, etc., characterized by that the small surface and light weight of the suctioned workpiece and high requirements for the conductivity of the suction cup
	Biopharmaceutical	Medical industry; mainly for handling of medical kits, medical devices, etc., characterized by that the suctioned workpiece has alcohol or any chemical agent on its surface and requires the suction cup to be highly chemical-resistant
	Food industry	Food industry; mainly for handling of bread, chocolate, milk packs, etc., characterized by the irregular surfaces, light weight and plastic soft packaging of the suctioned workpieces and high requirements for the material of the suction cup
	New energy (photovoltaic)	New energy industry; mainly for handling of solar panels, circuit boards, etc., characterized by breathable and fragile workpieces that require the suction cup to be in gentle contact and generate large vacuum flow
	New energy (lithium battery)	New energy lithium battery industry; mainly for handling of battery packs, batteries, combination batteries, etc., characterized by corrosion and explosion resistance, soft package suction, and safety and reliability

Performance UI	Property Definition	Brief Description
	Breathability	Can be used for breathable workpieces; mainly features gripping the workpiece (generally with a composite suction cup) through a low-vacuum large-flow vacuum generator to generate a vacuum by using the flow to compensate the breathable loss.
	Curved surface	Can be used to grip the workpiece with a curved surface or a surface sloping to certain degree, where generally a corrugated suction cup can be used for plane compensation.
	Skid resistance	Used for the workpiece with a smooth surface and requiring lateral skid to be prevented, where generally a flat reinforced suction cup or a flat suction cup with interior pattern can be used.
	Rough surface applicability	Used for the highly rough workpiece with a rough surface, such as wood board and stone, where generally a sponge suction cup is used to grip the workpiece through tiny pore compensation
	Heavy-duty	Used to grip the workpiece with heavy load, where generally a heavy-duty suction cup and installation accessories are used.
	Anti-slewing	Used to grip the workpiece that needs to be precisely in a fixed position and direction and requires not to be slewed
	Food grade safety certification	Used to grip the workpiece with safety certification required by the food industry or medical industry, where generally a suction cup made of food grade white silicone or POM (acetal resin) that has passed the FDA's certification is used.
	Tube	Used to grip the tubular or rod workpiece, where a special concave suction cup is used
	Bar	Used to grip bar-shaped workpieces, where a special oblong suction cup can be used
	Corrosion resistance	For handling associated with a corrosion resistance need (e.g. battery fluids, chemical environments, etc.), where a fluororubber or HT1 suction cup can be used
	Durable	Used for gripping that requires high durability to be longer than general service life in the scenarios inclined to cause wear, where a special material TPE can be used
	Sphere	Used to grip spherical objects, where a special high conic suction cup should be used
	Waterproof and oil-proof	Used to grip greasy workpieces, where a suction cup designed to be greaseproof and made of a greaseproof material should be used
	Composite product	A composite product that integrates a vacuum generator and a vacuum suction cup and features space saving, easy installation and wide application
	Anti-deforming	Gripping of the workpiece that needs to be prevented from being deformed, where suction cups of different specifications can be used according to different workpieces and different conditions
	180℃ resistance	Gripping of articles requiring 180℃ resistance, where a suction cup made of a material with resistance to high temperatures can be used
	400℃ resistance	Gripping of articles requiring 400℃ resistance

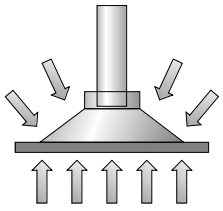
Vacuum suction cup

A suction cup is used in conjunction with mechanical equipment or a robot to handle a workpiece. It is not that the vacuum suction cup itself holds the workpiece, but that the air pressure presses the suction cup and the workpiece together when the atmospheric pressure is greater than the pressure inside the suction cup.

This pressure difference is formed when the vacuum generator is connected to the suction cup and the air between the suction cup and the workpiece is evacuated. A vacuum can be formed if the suction cup well contacts the surface of the workpiece without any air entering.

The holding force of the suction cup is proportional to the difference between the suction cup inside and outside pressures.
The holding force F is calculated with the following formula:

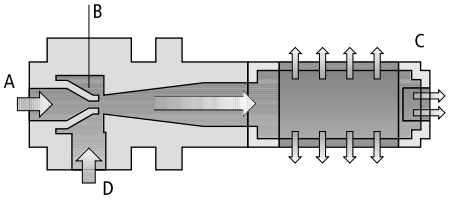
$$F = -p \times A$$



Vacuum generator

Vacuum generator works according to the Venturi principle, and is classified into single-stage vacuum generator and multistage vacuum generator.

The compressed air enters from the inlet (A) of the single-stage vacuum generator and flows through the Venturi nozzle (B). As the cross-section area decreases, the intensity of pressure of the compressed air increases and the flow rate increases accordingly. Then a vacuum is generated in the inlet (D) of the suction chamber so that the air around is suctioned into the vacuum generator, enters the expansion chamber to increase the gas flow rate, and finally is jetted out via the silencer (C).



The AMILA integrated vacuum pump is equipped with two valves to directly control the suction and blowing functions.
In addition, it is equipped with a vacuum switch for system monitoring and adjustment. The suction valve works in conjunction with the vacuum switch to achieve automatic throttling function, to ensure that the compressed air is only consumed when the vacuum switch detects that the vacuum degree is below the value set by the customer.

Advantages of integrated vacuum generator

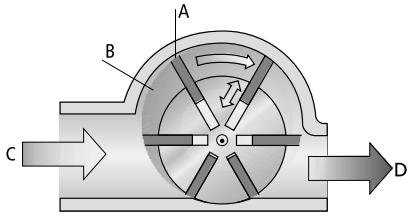
- Small space occupied and light weight
- Multiple functions integrated

Vacuum pump

A rotor with blades (A) is eccentrically installed in the vacuum pump. When the rotor rotates, the blades are pushed outwards by centrifugal force so that the space between the rotor and the inner wall of the pump housing is partially sealed. Since the rotor is installed eccentrically, the volume (B) of the space between the blades is different. As the volume of the space increases, the air enters and then expands so that the pressure decreases and a vacuum is formed. At the air inlet ©, owing to the decrease in the volume of the space, the air in the space is compressed, and is finally evacuated via the vent (D).
There are many types of vacuum pumps, of which all can produce a high vacuum and have a high suction capacity.

Advantages of vacuum pump

- A vacuum of very high degree can be formed in the event of a large suction capacity
- Can be used as a device for the central vacuum supply scheme



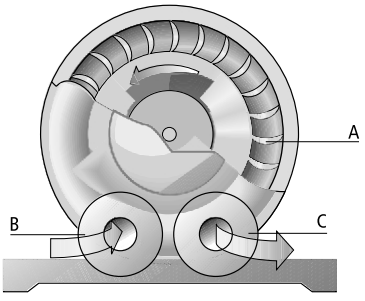
Vacuum blower

The vacuum blower draws outside air into its cavity through the rotating blades (A), so as to accelerate and compress the air. This means that kinetic energy is transferred from the rotor of the blower to the air. As the air is brought in by the blades, a vacuum is generated at the air inlet (B), and the compressed air is evacuated from the cavity of the blower through the vent (C).

The large-diameter air duct and the blades in a special shape enable the vacuum blower to have a large suction capacity.

Advantages of vacuum blower

- High suction rate
- Significant air leakage compensation
- A large suction capacity can be reached quickly



Vacuum knowledge

An example of calculation

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Vacuum system design steps

In this section, we will introduce the vacuum system design steps: In order to facilitate your understanding, we will take a typical application scheme as an example to illustrate the design of a vacuum system.

The calculation data used for this example is as follows:

Workpiece description
Material: steel plates stacked on a pallet
Surface: smooth, even and dry
Specifications: length: 2,500mm (maximum)
width: 1,250mm (maximum)
thickness: 2.5mm (maximum)
weight: approximately 60kg

Handling system—gantry crane
Compressed air: 8bar
Control voltage: 24VDC
Handling mode: The workpiece is placed and moved horizontally.
Suction a steel plate from the pallet. Lift and move it horizontally. Place it in the processing center.

Maximum acceleration: x-axis and y-axis: 5m/s²
z-axis: 5m/s

Cycle: 30s
Design time: suction: <1s
release: <1s

Workpiece weight calculation

Calculation of the weight of the gripped workpiece is the basis of all calculations. We can calculate it with the following formula:

$m = L \times B \times H \times$

m = Weight [kg]
L = Length [m]
B = Width [m]
H = Height [m]
ρ = Density [kg/m³]

For example:

$m = 2.5\ m \times 1.25\ m \times 0.0025\ m \times 7{,}850\ kg/m$

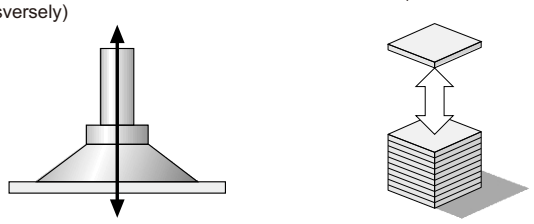
$m = 61.33\ kg$

Determine the theoretical required suction force generated by the suction cup

The above calculated workpiece weight needs to be used to calculate the suction force. Besides, the suction cup bears the force of acceleration. For the airtight workpiece with an even surface, the minimum safety coefficient is 1.5. For the workpiece made of uneven or breathable materials or with a rough surface, the safety coefficient must be 2.0 or above. If the acceleration and friction coefficient are unknown or cannot be accurately determined, the safety coefficient must also be no less than 2.0.

Load condition I: The vacuum suction cup is placed horizontally under a vertical load

The workpiece (e.g. a steel plate of 2.5 x 1.25 m) is suctioned from the pallet and lifted at an acceleration of 5m/s2(without moving transversely)



The vacuum suction cup is placed horizontally and the workpiece is lifted vertically.

$F_{TH} = m \times (g + a) \times S$

F_{TH} = Theoretical suction force [N]
m = Weight [kg]
g = Acceleration of gravity [9.81 m/s²]
a = System acceleration [m/s²]

S = Safety coefficient(minimum: 1.5; for the workpiece made of uneven or breathable materials or with a rough surface, the coefficient can be 2.0 or above)

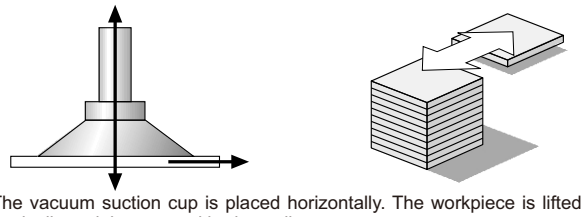
For example:

$F_{TH} = 61.33\ kg \times (9.81\ m/s + 5\ m/s) \times 1.5$

$F_{TH} = 1{,}363\ N$

Load condition II: The vacuum suction cup is placed horizontally under both horizontal and vertical loads

The workpiece (e.g. a steel plate of 2.5 x 1.25 m) is suctioned from the pallet and lifted, and then is moved horizontally. The acceleration is 5 m/s².



The vacuum suction cup is placed horizontally. The workpiece is lifted vertically and then moved horizontally.

$F_{TH} = m \times (g + a\mu) \times S$

F_{TH} = Theoretical suction force [N]
Fa = Force of acceleration = m · a
m = Weight [kg]
g = Acceleration of gravity [9.81 m/s²]
a = System acceleration [m/s²] (including emergency stop)
μ = Friction coefficient
= 0.1 Greasy surface
= 0.2~0.3 Moist surface
= 0.5 Wooden, metal or stone surface
= 0.6 Rough surface
S = Safety coefficient (minimum: 1.5; for the workpiece made of uneven or breathable materials or with a rough surface, the coefficient can be 2 or above)

For example:

$F_{TH} = 61.33\ kg \times (9.81\ m/s + 5\ m/s^2 / 0.5) \times 1.5$

$F_{TH} = 1{,}822\ N$

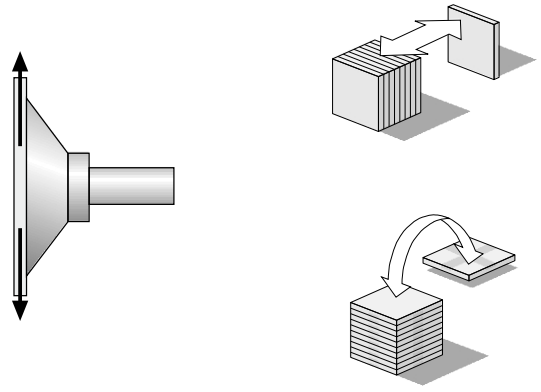
Vacuum knowledge

An example of calculation

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Load condition III: The vacuum suction cup is placed vertically under a vertical load

Load description: The workpiece (e.g. a steel plate of 2.5 x 1.25 m) is suctioned from the pallet and lifted, and then is rotated at an acceleration of 5 m/s².



F_{TH} = (m /μ) x (g + a) x S

F_{TH} = Theoretical suction force [N]

m = Weight [kg]

g = Acceleration of gravity [9.81 m/s²]

a = System acceleration [m/s²] (including emergency stop)

μ = Friction coefficient

= 0. 1 Greasy surface

= 0. 2~0. 3 Moist surface

= 0. 5 Wooden, metal or stone surface

= 0. 6 Rough surface

S = Safety coefficient (minimum: 2; for the workpiece made of uneven or breathable materials or with a rough surface, the coefficient can be 4 or above)

For example:

F_{TH} = (61.33 kg / 0.5) x (9.81m/s^2]+ 5m/s^2) x 2

F_{TH} = 3, 633 N

Comparison:

For the above-mentioned handling mode-“Suction a steel plate from the pallet. Lift and move it horizontally. Place it in the processing center.”, apparently, both load condition I—to merely lift the workpiece, and load condition III—need to rotate the workpiece, are not applicable, but only load condition II completely meets the given operating condition for the workpiece. In this example, the calculated maximum theoretical suction force (FTH) of the workpiece that is moved horizontally is1822N. This theoretical suction force is the required holding force of the suction cup for moving the workpiece transversely, and can be used as a criterion for selecting system parts.

Vacuum suction cup selection

The calculated theoretical suction force is equivalent to the required suction force of the suction cup for moving the workpiece safely.

In this example, we use:
the PFG series vacuum suction cup, which is made of the NBR material, have a low cost and is ideal for handling workpieces with smooth and even surfaces.

During model selection, the calculated theoretical suction force can assigned to one or more suction cups.

For a steel sheet of (2500 x 1250 mm), we usually select 6–8 suction cups. The most important basis for determining the number of suction cups is the bending degree of the sheet steel being moved.

Calculate the suction force FS(N) of the suction cup

$F_S = F_{TH/n}$

F_S = Suction force

F_{TH} = Theoretical suction force

n = Number of suction cups

For example:

F_S = 1, 822 N / 6

F_S = 304 N

6 PFG 95 NBR suction cups can be selected according to the technical parameters of the PFG vacuum suction cup, each with a diameter of 95mm and generating a suction force of 350N.

F_S = 1, 822 N/8

F_S = 228 N

8 PFG 80 NBR suction cups can be selected according to the technical parameters of the PFG vacuum suction cup, each with a diameter of 80 mm and generating a suction force of 260 N.

In this example, w use:
6 PFG-95-NBR suction cups
For a steel sheet thick 2.5 mm, 6 suction cups are enough to ensure safe handling and low cost.

Key points:
• The actual suction force of each suction cup must be greater than the calculated value.

Vacuum knowledge

Calculation example / density table

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Calculate the suction rate of vacuum system

Suction rates corresponding to different suction cup diameters

Suction Cup Diameter ϕ	Suction Rate V_s	
Up to 60 mm	0.5 m³/h	8.3 l/min
Up to 120 mm	1.0 m³/h	16.6 l/min
Up to 215 mm	2.0 m³/h	33.3 l/min
Up to 450 mm	4.0 m³/h	66.6 l/min

Note: The parameters in the above table are applicable to all vacuum generators. The recommended vacuum suction rate does not apply to the smooth and airtight workpiece surface but only a single suction cup. For a breathable workpiece, we recommend to conduct a suction test before selecting a vacuum generator.

Vacuum suction rate V (m^3/h, l/min) calculation formula

$$\dot{V} = n \times \dot{V}_s$$

n = Number of suction cups

$\dot{V}_s$ = Required suction rate of a single suction cup [m³/h, l/min]

For example:

V = 6 x 16.6 l/min

V = 99.6 l/min

In this example, we use:
An MCP 20 integrated vacuum generator with a suction rate of 140l/min. The integrated vacuum generator has a control valve with suction and blowing functions as well as a status monitoring function to ensure safe handling.

Calculate the suction time of vacuum system

To calculate the suction time of a vacuum system, first, we must determine the total suction volume of the vacuum system.

$$\dot{V}_G = \dot{V}_1 + \dot{V}_2 + \dot{V}_3 + \dot{V}_4 + \dot{V}_5 + \dots$$

$\dot{V}_G$ = Total suction volume of vacuum system [m^3]

$\dot{V}_1$ = Volume of vacuum suction cup inside [m^3](6 x 35 cm^3)

$\dot{V}_2$ = Volume of vacuum suction cup inside[m^3] (6 x 9.5 cm_3)

$\dot{V}_3$ = Volume of vacuum tube inside[m^3](6 x 43 cm^3)

$\dot{V}_4$ = Volume of diverter inside (38.5 cm^3)

$\dot{V}_5$ = Volume of diverter inside (if appropriate)[m^3]

$\dot{V}_6$ = Volume of solenoid valve inside (if appropriate)[m^3]

...

For example:

$\dot{V}_G$ = 6 x 35 cm^3 + 6 x 9.5 cm^3 + 6 x 43 cm^3 + 1 x 38.5 cm^3

$\dot{V}_G$ = 564 cm^3 = 0.000564 m^3

Calculate suction time t(h)

$$t = (\dot{V}_{G \times \ln(p_a / p_e)} \times 1.3) / \dot{V}$$

$\dot{V}_G$ = Total suction volume of vacuum system[m^3]

In = Natural logarithm

p_a = Initial absolute pressure [1,013 mbar] (1 atmosphere)

p_e = Final absolute pressure [mbar]

$\dot{V}$ = Suction rate of vacuum generator [m^3/h]

For example:

Given a relative vacuum degree of 60%, the absolute pressure is 400 mba

t = (0.000564 m^3 x ln (1,013 mbar / 400 mbar) x 1.3) / 6.95m^3

t = 0.000564 x 1.208 / 6.95

t = 0.0000980 h

t = 0.35 s

The suction time of this vacuum system is 0.35 s, so it is a vacuum system with low cost, high efficiency and short cycle.

Workpiece density

Workpiece material	Material density	Workpiece material	Material density
Steel	7.900 kg/dm³	Glass	2.500 kg/dm³
Aluminum	2.700 kg/dm³	Acrylic glass	1.200 kg/dm³
Lead	11.300 kg/dm³	Rubber	0.800...2.000 kg/dm
Bronze	8.830 kg/dm³	Paper	0.700...1.100 kg/dm
Brass	8.500 kg/dm³	Fiberglass	1.150...1.250 kg/dm
Titanium	4.500 kg/dm³	Gypsum	2.300 kg/dm³
Copper	8.900 kg/dm³	Concrete	2.350 kg/dm³
Gasoline	0.730 kg/dm³	Natural stone	2.800 kg/dm³
Diesel	0.830 kg/dm³	Recyclable cardboard	0.750 kg/dm³
Hot oil	0.830 kg/dm³	MDF medium-density fiberboard	0.900 kg/dm³
Lubricant	0.910 kg/dm³	Plywood	0.600...0.800 kg/dm
Water	0.998 kg/dm³	Wood	0.450...0.850 kg/dm

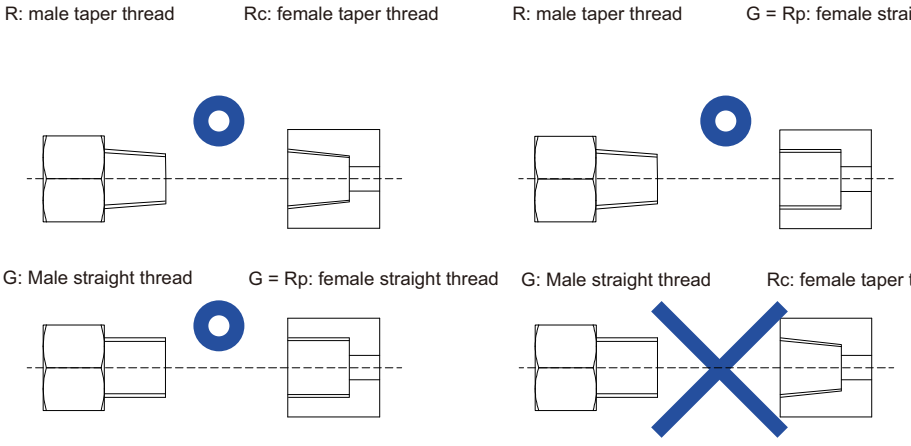
Weight =Length x Width x Thickness x Density

[kg] [m] [m] [mm] [kg/dm^3]

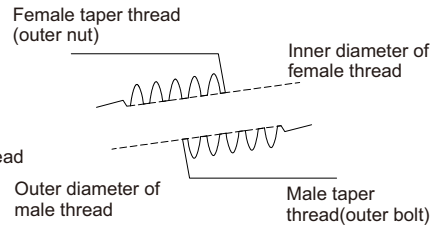
Thread table

Model	Male straight thread	Female straight thread	Male taper thread	Female taper thread	Outer diameter of male thread	Outer diameter of female thread	Thread pitch
M3	M3	M3	–	–	3.00 mm	2.46 mm	0.5 mm
M4	M4	M4	–	–	4.00 mm	3.24 mm	0.7 mm
M5	M5	M5	–	–	5.00 mm	4.13 mm	0.8 mm
M6	M6	M6	–	–	6.00 mm	4.92 mm	1.0 mm
1/16"	G1/16	Rp1/16, G1/16	R1/16	Rc1/16	7.72 mm	6.56 mm	0.91 mm
M8	M8	M8	–	–	8.00 mm	6.65 mm	1.25 mm
1/8"	G1/8	Rp1/8, G1/8	R1/8	Rc1/8	9.73 mm	8.57 mm	0.91 mm
M10	M10	M10	–	–	10.00 mm	8.38 mm	1.5 mm
M12	M12	M12	–	–	12.00 mm	10.11 mm	1.75 mm
1/4"	G1/4	Rp1/4, G1/4	R1/4	Rc1/4	13.16 mm	11.45 mm	1.34 mm
M14	M14	M14	–	–	14.00 mm	11.84 mm	2.0 mm
M16	M16	M16	–	–	16.00 mm	13.84 mm	2.0 mm
3/8"	G3/8	Rp3/8, G3/8	R3/8	Rc3/8	16.66 mm	14.95 mm	1.34 mm
M20	M20	M20	–	–	20.00 mm	17.29 mm	2.5 mm
1/2"	G1/2	Rp1/2, G1/2	R1/2	Rc1/2	20.96 mm	18.63 mm	1.81 mm
M24	M24	M24	–	–	24.00 mm	20.75 mm	3.0 mm
3/4"	G3/4	Rp3/4, G3/4	R3/4	Rc3/4	26.44 mm	24.12 mm	1.81 mm
M30	M30	M30	–	–	30.00 mm	26.21 mm	3.5 mm
1"	G1	Rp1, G1	R1	Rc1	33.25 mm	30.29 mm	2.31 mm
1-1/4"	G1-1/4	Rp1-1/4, G1-1/4	R1-1/4	Rc1-1/4	41.91 mm	38.95 mm	2.31 mm
1-1/2"	G1-1/2	Rp1-1/2, G1-1/2	R1-1/2	Rc1-1/2	47.80 mm	44.85 mm	2.31 mm
2"	G2	Rp2, G2	R2	Rc2	59.61 mm	56.66 mm	2.31 mm
2-1/2"	G2-1/2	Rp2-1/2, G2-1/2	R2-1/2	Rc21/2	75.18 mm	72.23 mm	2.31 mm
3"	G3	Rp3, G3	R3	Rc3	87.88 mm	84.93 mm	2.31 mm

[1] M thread: JIS B 0205-4:2001; R, Rc and Rp thread: JIS B 0203-1999; G thread: JIS B 0202-1994



Engagement between male and female threads



Outer and inner diameters of thread

Application environment

⚠ Warning

1. For places at risk of falling during operation, certain falling prevention measures must be provided to ensure safety.
2. Avoid the application in which a pressure of 0.1 MPa or above is applied to the vacuum tube. Since fittings of vacuum devices are not explosion-proof, the equipment is inclined to be damaged during the application.
3. If the vacuum tube of the vacuum generator is equipped with 2 or above suction cups, suction failure of one suction cup will likely cause the vacuum degree of the other suction cups to decrease, and the workpiece is also likely to fall.
4. Do not use the system in any environment with any corrosive, flammable or explosive gas, chemical, seawater or steam. The vacuum system will not suction such matter.
5. Avoid the application in which the opening of the vacuum generator is blocked or under increased resistance to evacuation. Such imprudent application will likely cause flow loss or vacuum degree decrease.
6. When the equipment is exposed to direct sunlight, be sure to use a protective cover.
7. Do not use the equipment in any environment with too much vibration, which is likely to cause faults.

Design/setting

⚠ Note

1. Note that vacuum pressure will decrease due to air supply or power supply failure and as a result, the workpeice will likely fall. Therefore, there must be adequate preventive measures.
2. Conduct a manual check and mark the vacuum generator port on the main body. Improper tube connection will damage the equipment.
3. The air source of the vacuum generator should supply clean air. Never apply any lubricant to it, since any impurity or grease in compressed air will likely cause faults or compromise performance.
4. Avoid any leakage in the workpiece or fitting pipes. Insufficient flow may cause poor suction. Avoid too long or thick fitting pipes. When the volume increases, the suction response time will be too long.
5. The effective cross-section area of the vacuum side fitting pipe should be determined according to the maximum suction flow of the vacuum generator. The effective cross-section area of the supply side fitting pipe should be determined according to the maximum air consumption of the vacuum generator.

Maintenance

⚠ Warning

1. Silencing components of the silencer and the filter element should be maintained and tested regularly. Any component blocked will compromise performance or cause damage to the product.
2. Only replace the generator components after fully understanding them.
3. Do not clean or sprinkle the equipment with water or any solvent.
4. Do not install an oil atomizer in the anterior pipe of the vacuum generator in the vacuum system. Accumulated atomized oil in the nozzle of the generator is likely to cause clogging and as a result compromise the performance of the generator.
5. Do not use Teflon tape at the vacuum pipe connecting parts (especially the connecting parts with fittings). The Teflon tape is likely to fall to clog the pipe inside and compromise the performance of the vacuum generator.

Installation

⚠ Warning

1. Avoid the application in which the opening of the vacuum generator is blocked or under increased resistance to evacuation. Such imprudent application will likely cause flow loss or vacuum degree decrease.
2. Do not remove or forcibly shake or rotate the rotary resin housing in case the resin is likely to break or leak.
3. Do not use the equipment in any place with any flammable or explosive solidified or gaseous gas, which is likely cause fire or explosion.

Vacuum suction cup series

Product overview

Vacuum suction cup



21 MP series
Vacuum suction cup
◇ Size: 2–50mm
◇ Material: N, S, GN, GS, GHN

3C product



54 MP2-W series
Vacuum suction cup
◇ Size: 3.5X7–8X30mm
◇ Material: N, S, GN, GS, GHN

3C product



42 MP2-PEEK series
Vacuum suction cup core
◇ Size: 6–32mm
◇ Material: PEEK, PGEK (anti-static)

3C product



61 MP3 series
Vacuum suction cup
◇ Size: 1.5–16mm
◇ Material: N, S, GN, GS, GHN

3C product



45 MP2-MT series
Vacuum suction cup
◇ Size: 10–30mm
◇ Material: N, S, GN, GS, GHN

3C product



75 MP3E series
Vacuum suction cup
◇ Size: 32–125mm
◇ Material: N, S

General-purpose



48 MP2-MB series
Vacuum suction cup
◇ Size: 4–20mm
◇ Material: N, S, GN, GS, GHN

3C product



102 PFG series
Round flat suction cup
◇ Size: 2–120mm
◇ Material: F, HT1, N, GN, S, GS

General-purpose



52 MP2-AN series
Vacuum suction cup
◇ Size: 0.8–1.1mm
◇ Material: N, S, GN, GS, GHN

3C product



108 MP2-HT series
Round flat suction cup
◇ Size: 150–250mm
◇ Material: N, S

Heavy-duty

Vacuum suction cup series

Product overview

Vacuum suction cup



110 MPU series
Large flat suction cup
◇ Size: 125–360mm
◇ Material: N, S

Metal sheet Wood Heavy-duty



126 FG series
Bellows suction cup(2.5 flods)
◇ Size: 5–88mm
◇ Material: HT1, N, S

Packaging Injection molding 3C product



113 MPC series
Large flat suction cup
◇ Size: 160–250mm
◇ Material: N, S

Wood Air permeability



130 FSGPL series
Bellows suction cup
◇ Size: 100–250mm
◇ Material: N

Metal sheet Packaging Wood



116 MRP series
Flat suction cup for workpieces with rough surfaces
◇ Size: 55–250mm
◇ Material: EPDM

Metal sheet Glass Wood



132 MAF series
Flat suction cup for sheet metal
◇ Size: 30–100mm
◇ Material: N45, N60, HT1

Metal sheet Skid resistance Greasy surface



119 MPLO series
Oval flat suction cup
◇ Size: 100×30–370×80mm
◇ Material: N

General -purpose Metal sheet Glass Wood



135 MAB series
Bellows suction cup(1.5-fold) for sheet metal
◇ Size: 30–100mm
◇ Material: N45, N60, HT1

Metal sheet Skid resistance Greasy surface



122 FGA series
Bellows suction cup(1.5-folds)
◇ Size: 11–78mm
◇ Material: HT1, N, S

Genera -purpose Packaging Injection molding



138 MAOF series
Oval flat suction cup for sheet metal
◇ Size: 50×16–120×60mm
◇ Material: N45, N60, HT1

Metal sheet Bar Skid resistance Greasy surface

Vacuum suction cup series

Product overview

Vacuum suction cup



141 MAOB series
Oval bellows suction cup for sheet metal
◇ Size: 60×30–110×55mm
◇ Material: N45, N60, HT1

Metal sheet · Bar · Skid resistance · Greasy surface



162 MGMBH series
Combined suction cup for deep soft bags
◇ Size: 43–60mm
◇ Material: S

Food packaging · Plastic bag



144 MF series
Flat suction cup for packaging
◇ Size: 20–50mm
◇ Material: TPE

Packaging · Durable



166 MGMBG series
Combined suction cup for soft bags
◇ Size: 34–63mm
◇ Material: S

Food packaging · Plastic bag



149 MB series
Bellows suction cup for packaging
◇ Size: 20–50mm
◇ Material: TPE

Packaging · Durable



170 MXD series
Flat suction cup for plastic film and paper
◇ Size: 15–40mm
◇ Material: HT1, S

Paper · Plastic bag · Solar energy · Anti-deforming



154 MGMX series
Combined suction cup for cartons
◇ Size: 28–55mm
◇ Material: TPE

Packaging



173 MW-HT series
High-temperature suction plate
◇ Size: 35–140mm
◇ Material: BL

Metal sheet · Glass · High temperature resistance



158 MGML series
Combined suction cup with sponge
◇ Size: 30–60mm
◇ Material: Sponge

Solar energy · Composite material · Battery · Air permeability



176 MU series
Suction cup cover
◇ Size: 30–360mm
◇ Used in conjunction with the vacuum suction cup

Glass · Solar energy

Vacuum suction cup series

Product overview

Vacuum suction cup



179 MPE series
Round sponge suction cup
◇ Size: 40–180mm
◇ Material: G, E

Packaging Stone Rough surface



182 MPES series
Oval sponge suction cup
◇ Size: 120×60–300×200mm
◇ Material: G, E

Packaging Stone Rough surface



185 MLE series
Rectangular sponge suction cup
◇ Size: 107×75–290×140mm
◇ Material: G, E

Packaging Stone Rough surface

MP series

Traceless Static-proof

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Vacuum suction cup with adapter (φ2–φ50)

3C product



U-Flat

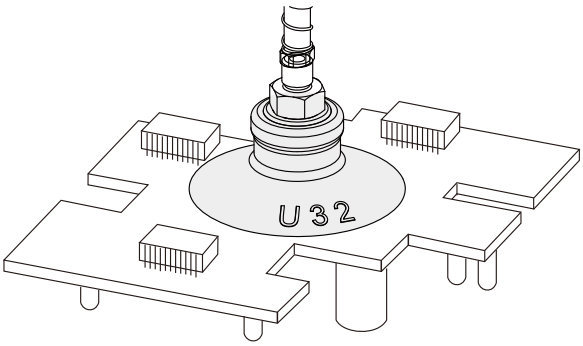


B-Bellows-type

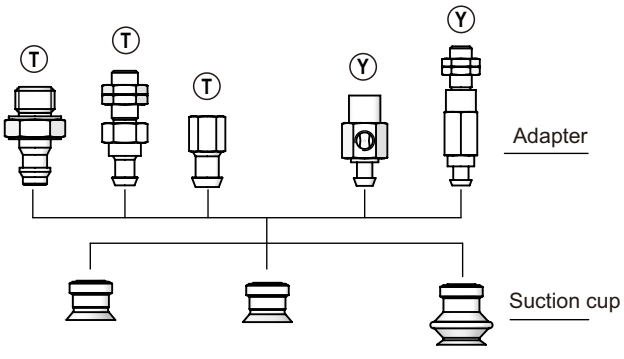


C-Flat reinforced

Applications of MP adapter-equipped vacuum suction cups



System design of MP cup with adapter



Introduction

- Type U, Type C and Type B are in different shapes to adapt to different applications
- Special traceless anti-static material
- Applicable to handling small-sized, lightweight articles in the 3C electronics industry

Application

- Type U is suitable for even surfaces unlikely deforming
- Type C is applicable to suctioning workpieces likely deforming
- Type B is applicable to suctioning sloping surfaces
- Applicable to handling cartons, small semiconductor products, spherical objects, food, etc.
- The special anti-static material is applicable to the electronics industry.

Structure

- Split structure design, the vulnerable elements can be easily replaced.

MP series

Traceless Static-proof

AMILA

Vacuum suction cup with adapter (φ2–φ50)

Guide to purchase of vacuum suction cup with adapter MP

MP T - 02 U N - A5

① ② ③ ④ ⑤ ⑥

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification
MP	Null - Bare suction cup T - Vertical Y - Horizontal	**02** - Φ2.0mm **16** - Φ16mm **04** - Φ4.0mm **20** - Φ20mm **06** - Φ6.0mm **25** - Φ25mm **08** - Φ8.0mm **32** - Φ32mm **10** - Φ10mm **40** - Φ40mm **13** - Φ13mm **50** - Φ50mm	U - Flat B - Bellows-type C - Ribbed-flat type

⑤ Material of suction cup	⑥ Joint specification		
N-nitrile rubber S-silicone rubber GN-Anti-static nitrile rubber (Static resistance index: 10^5–10^9) GS- Anti-static silicone rubber (Static resistance index: 10^5–10^9) GHN-traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	Null- Bare suction cup A5- M5×0.8 male thread A6-M6×1 male thread A8- M8×1.25 male thread B4- M4×0.7 female thread B5- M5×0.8 female thread B6- M6×1 female thread B8- M8×1.25 female thread B01- G1/8 female thread	B5-A5- vacuum port with M5×0.8 female thread, fitted to M5×0.8 male thread B5-A6- vacuum port with M5×0.8 female thread, fitted to M6×1 male thread B5-A8- vacuum port with M5×0.8 female thread, fitted to M8×1.25 male thread B5-B4 - fitted to M5×0.8 female thread fitted to M4×0.7 female thread	B5-B5- vacuum port with M5×0.8 female thread, fitted to M5×0.8 female thread B5-B6- vacuum port with M5×0.8 female thread, fitted to M6×1 female thread B5-B8- vacuum port with M5×0.8 female thread, fitted to M8×1.25 female thread

Note: When a bare suction cup is selected, the “vacuum port direction” item will be disabled.

MP series

Traceless Static-proof

AMILA

Vacuum suction cup with adapter (φ2–φ50)

Model specifications of vacuum suction cup with adapter MP

Model specification	Shape specification			Connection specification T - Vertical							
	U	B	C	A5 M5×0.8 male thread	A6 M6×1 male thread	A8 M8×1.25 male thread	B4 M4×0.7 female thread	B5 M5×0.8 female thread	B6 M6×1 female thread	B8 M8×1.25 female thread	B01 G1/8 female thread
φ2.0	●	-	-	●	●	-	●	●	-	-	-
φ4.0	●	-	-	●	●	-	●	●	-	-	-
φ6.0	●	●	-	●	●	-	●	●	-	-	-
φ8.0	●	●	-	●	●	-	●	●	-	-	-
φ10	●	●	●	●	●	-	-	●	●	-	●
φ13	●	●	●	●	●	-	-	●	●	-	●
φ16	●	●	●	●	●	-	-	●	●	-	●
φ20	●	●	●	-	●	●	-	●	●	●	●
φ25	●	●	●	-	●	●	-	●	●	●	●
φ32	●	●	●	-	●	●	-	●	●	●	●
φ40	●	●	●	-	●	●	-	-	●	●	●
φ50	●	●	●	-	●	●	-	-	●	●	●

Model specification	Shape specification			Connection specification Y- Horizontal						
	U	B	C	B5-A5 Vacuum port with M5×0.8 female thread fitted to M5×0.8 male thread	B5-A6 Vacuum port with M5×0.8 female thread fitted to M6×1 male thread	B5-A8 Vacuum port with M5×0.8 female thread fitted to M8×1.25 male thread	B5-B4 Vacuum port with M5×0.8 female thread fitted to M4×0.7 female thread	B5-B5 Vacuum port with M5×0.8 female thread fitted to M5×0.8 female thread	B5-B6 Vacuum port with M5×0.8 female thread fitted to M6×1 female thread	B5-B8 Vacuum port with M5×0.8 female thread fitted to M8×1.25 female thread
φ2.0	●	-	-	●	●	-	●	●	-	-
φ4.0	●	-	-	●	●	-	●	●	-	-
φ6.0	●	●	-	●	●	-	●	●	-	-
φ8.0	●	●	-	●	●	-	●	●	-	-
φ10	●	●	●	●	●	-	-	●	●	-
φ13	●	●	●	●	●	-	-	●	●	-
φ16	●	●	●	●	●	-	-	●	●	-
φ20	●	●	●	-	●	●	-	●	●	●
φ25	●	●	●	-	●	●	-	●	●	●
φ32	●	●	●	-	●	●	-	●	●	●
φ40	●	●	●	-	●	●	-	-	●	●
φ50	●	●	●	-	●	●	-	-	●	●

MP series

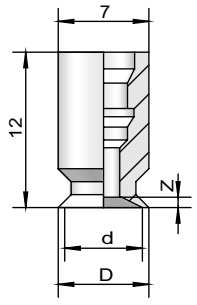
Traceless Static-proof

AMILA

Vacuum suction cup with adapter (φ2–φ50)

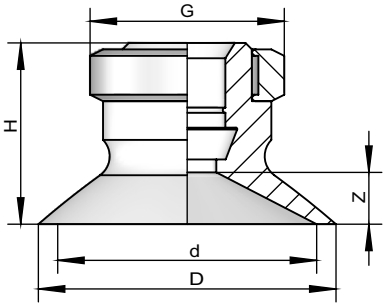
Design parameters of vacuum suction cup with adapter MP

MP-02 to 08 U



Model	Size (mm)			
	D	d	Z	Weight g
MP-02U ☐	2.6	2	0.5	0.3
MP-04U ☐	4.8	4	0.8	0.3
MP-06U ☐	7	6	0.8	0.4
MP-08U ☐	9	8	1	0.4

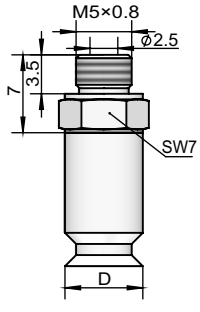
MP-10 to 50 U



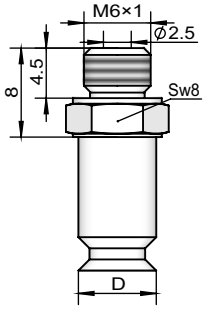
Model	Size (mm)					
	H	D	d	G	Z	Weight g
MP-10U ☐	12	12	10	13	3	0.8
MP-13U ☐	12	15	13	13	3	0.8
MP-16U ☐	12.5	18	16	13	3.5	0.9
MP-20U ☐	14	23	20	15	4	1.6
MP-25U ☐	14	28	25	15	4	1.8
MP-32U ☐	14.5	35	32	15	4.5	2.3
MP-40U ☐	18.5	43	40	18	6.5	5.5
MP-50U ☐	19.5	53	50	18	7.5	6.9

Type-U suction cup (φ2.0–φ8.0mm) - Vacuum port in vertical direction

MPT-02 to 08 U ☐ -A5
(M5×0.8 male thread)



MPT-02 to 08 U ☐ -A6
(M6×1 male thread)



Model	Size (mm)	Applicable adapter model
	D	
MPT-02U ☐ -A5(A6)	2.6	MPT1-A5(A6)
MPT-04U ☐ -A5(A6)	4.8	MPT1-A5(A6)
MPT-06U ☐ -A5(A6)	7	MPT1-A5(A6)
MPT-08U ☐ -A5(A6)	9	MPT1-A5(A6)

MP series

Traceless Static-proof

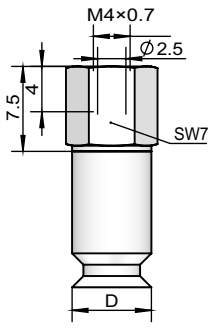
AMILA

Vacuum suction cup with adapter (φ2–φ50)

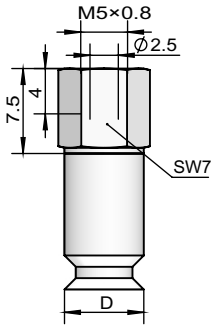
Design parameters of vacuum suction cup with adapter MP

Type-U suction cup (φ2.0–φ8.0mm) - Vacuum port in vertical direction

MPT-02 to 08 U ☐ -B4
(M4×0.7 female thread)



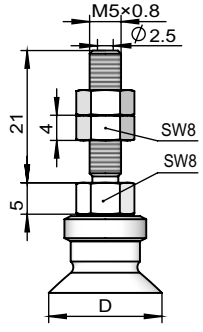
MPT-02 to 08 U☐ -B5
(M5×0.8 female thread)



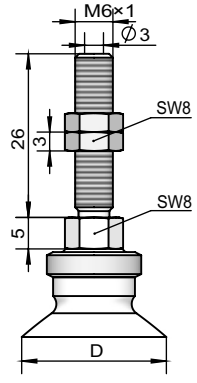
Model	Size (mm) D	Applicable adapter model
MPT-02U ☐ -B4(B5)	2.6	MPT1-B4(B5)
MPT-04U ☐ -B4(B5)	4.8	MPT1-B4(B5)
MPT-06U ☐ -B4(B5)	7	MPT1-B4(B5)
MPT-08U ☐ -B4(B5)	9	MPT1-B4(B5)

Type-U suction cup (φ10–φ50mm)—Vacuum port in vertical direction

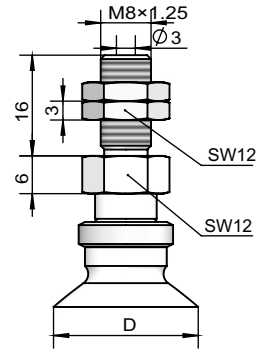
MPT-10 to 16 U ☐ -A5
(M5×0.8 male thread)



MPT-10 to 50 U ☐ -A6
(M6×1 male thread)



MPT-20 to 50 U ☐ -A8
(M8×1.25 male thread)



Model	Size (mm) D	Applicable adapter model
MPT-10U ☐ -A5(A6)	12	MPT2-A5(A6)
MPT-13U ☐ -A5(A6)	15	MPT2-A5(A6)
MPT-16U ☐ -A5(A6)	18	MPT2-A5(A6)
MPT-20U ☐ -A6(A8)	23	MPT3-A6(A8)
MPT-25U ☐ -A6(A8)	28	MPT3-A6(A8)
MPT-32U ☐ -A6(A8)	35	MPT3-A6(A8)
MPT-40U ☐ -A6(A8)	43	MPT4-A6(A8)
MPT-50U ☐ -A6(A8)	53	MPT4-A6(A8)

MP series

Traceless Static-proof

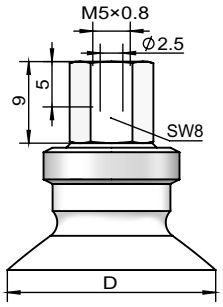
AMILA

Vacuum suction cup with adapter (φ2–φ50)

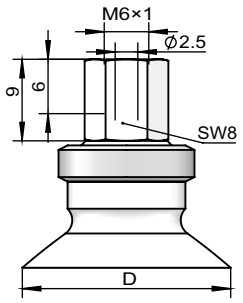
Design parameters of vacuum suction cup with adapter MP

Type-U suction cup (φ10–φ50mm)—Vacuum port in vertical direction

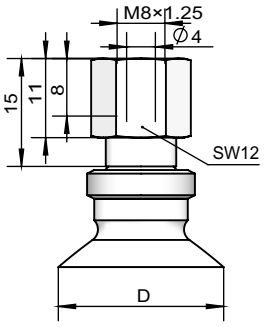
MPT-10 to 32 U □ -B5
(M5×0.8 female thread)



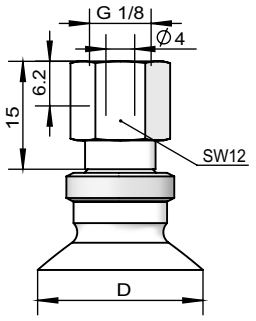
MPT-10 to 50 U □ -B6
(M6×1 female thread)



MPT-20 to 50 U □ -B8
(M8×1.25 female thread)



MPT-10 to 50 U □ -B01
(G1/8 female thread)

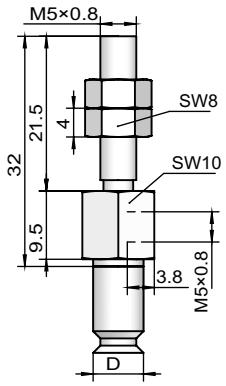


Model	Size (mm)	
	D	Applicable adapter model
MPT-10U □ -B5(B6/B01)	12	MPT2-B5(B6/B01)
MPT-13U □ -B5(B6/B01)	15	MPT2-B5(B6/B01)
MPT-16U □ -B5(B6/B01)	18	MPT2-B5(B6/B01)
MPT-20U □ -B5(B6/B8/B01)	23	MPT3-B5(B6/B8/B01)
MPT-25U □ -B5(B6/B8/B01)	28	MPT3-B5(B6/B8/B01)
MPT-32U □ -B5(B6/B8/B01)	35	MPT3-B5(B6/B8/B01)
MPT-40U □ -B6(B8/B01)	43	MPT4-B6(B8/B01)
MPT-50U □ -B6(B8/B01)	53	MPT4-B6(B8/B01)

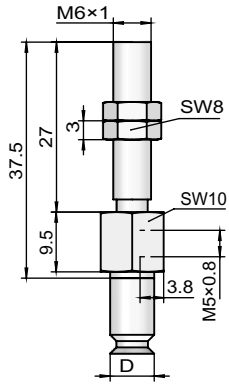
Design parameters of vacuum suction cup with adapter MP

Type-U suction cup (φ2.0–φ8.0mm)—Vacuum port in horizontal direction

MPY-02 to 08 U □ -B5-A5
(M5×0.8 male thread)

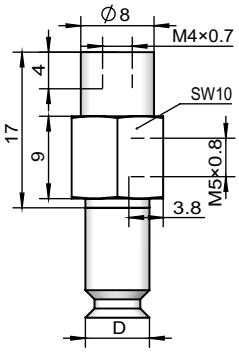


MPY-02 to 08 U □ -B5-A6
(M6×1 male thread)

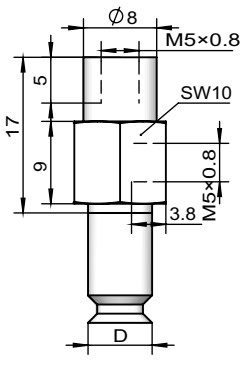


Model	Size (mm)	
	D	Applicable adapter model
MPY-02U □ -B5-A5(B5-A6)	2.6	MPY1-B5-A5(B5-A6)
MPY-04U □ -B5-A5(B5-A6)	4.8	MPY1-B5-A5(B5-A6)
MPY-06U □ -B5-A5(B5-A6)	7	MPY1-B5-A5(B5-A6)
MPY-08U □ -B5-A5(B5-A6)	9	MPY1-B5-A5(B5-A6)

MPY 02 to 08 U □ B5-B4
(M4×0.7 female thread)



MPY 02 to 08 U □ B5-B5
(M5×0.8 female thread)



Model	Size (mm)	
	D	Applicable adapter model
MPY-02U □ -B5-B4(B5-B5)	2.6	MPY1-B5-B4(B5-B5)
MPY-04U □ -B5-B4(B5-B5)	4.8	MPY1-B5-B4(B5-B5)
MPY-06U □ -B5-B4(B5-B5)	7	MPY1-B5-B4(B5-B5)
MPY-08U □ -B5-B4(B5-B5)	9	MPY1-B5-B4(B5-B5)

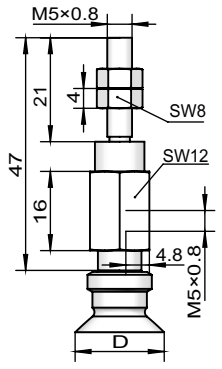
Traceless Static-proof

AMILA

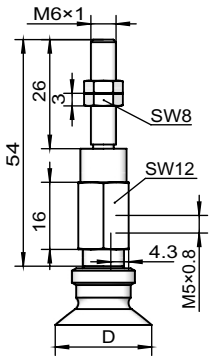
Design parameters of vacuum suction cup with adapter MP

Type-U suction cup (φ10–φ50mm)—Vacuum port in horizontal direction

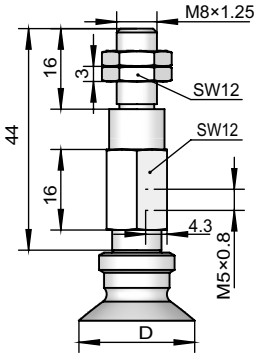
MPY 10 to 16 U ☐ B5-A5
(M5×0.8 male thread)



MPY 10 to 50 U ☐ B5-A6
(M6×1 male thread)

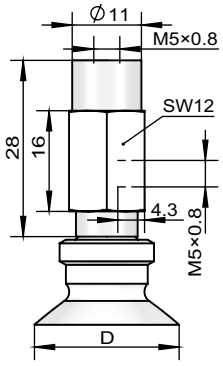


MPY 20 to 50 U ☐ B5-A8
(M8×1.25 male thread)

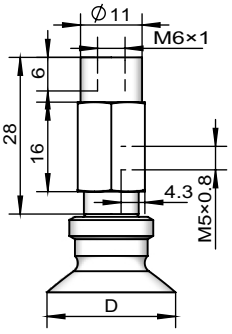


Model	Size (mm)	
	D	Applicable adapter model
MPY-10U ☐-B5-A5(B5-A6)	12	MPY2-B5-A5(B5-A6)
MPY-13U ☐-B5-A5(B5-A6)	15	MPY2-B5-A5(B5-A6)
MPY-16U ☐-B5-A5(B5-A6)	18	MPY2-B5-A5(B5-A6)
MPY-20U ☐-B5-A6(B5-A8)	23	MPY3-B5-A6(B5-A8)
MPY-25U ☐-B5-A6(B5-A8)	28	MPY3-B5-A6(B5-A8)
MPY-32U ☐-B5-A6(B5-A8)	35	MPY3-B5-A6(B5-A8)
MPY-40U ☐-B5-A6(B5-A8)	43	MPY4-B5-A6(B5-A8)
MPY-50U ☐-B5-A6(B5-A8)	53	MPY4-B5-A6(B5-A8)

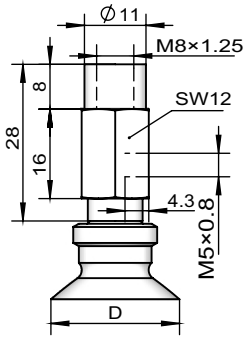
MPY 10 to 32 U ☐ B5-B5
(M5×0.8 female thread)



MPY 10 to 50 U ☐ B5-B6
(M6×1 female thread)



MPY 20 to 50 U ☐ B5-B8
(M8×1.25 female thread)



Model	Size (mm)	
	D	Applicable adapter model
MPY-10U ☐-B5-B5(B5-B6)	12	MPY2-B5-B5(B5-B6)
MPY-13U ☐-B5-B5(B5-B6)	15	MPY2-B5-B5(B5-B6)
MPY-16U ☐-B5-B5(B5-B6)	18	MPY2-B5-B5(B5-B6)
MPY-20U ☐-B5-B5(B5-B6/B5-B8)	23	MPY3-B5-B5(B5-B6/B5-B8)
MPY-25U ☐-B5-B5(B5-B6/B5-B8)	28	MPY3-B5-B5(B5-B6/B5-B8)
MPY-32U ☐-B5-B5(B5-B6/B5-B8)	35	MPY3-B5-B5(B5-B6/B5-B8)
MPY-40U ☐-B5-B6(B5-B8)	43	MPY4-B5-B6(B5-B8)
MPY-50U ☐-B5-B6(B5-B8)	53	MPY4-B5-B6(B5-B8)

MP series

Traceless Static-proof

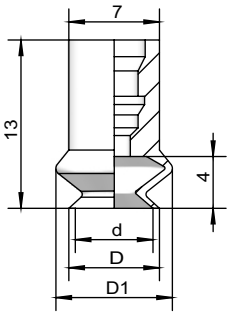
AMILA

Vacuum suction cup with adapter (φ2–φ50)

Design parameters of vacuum suction cup with adapter MP

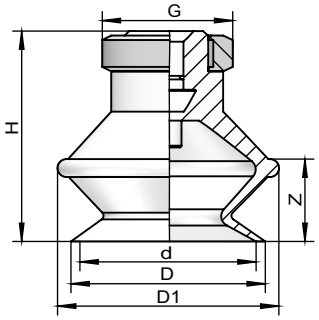
Size specification (mm)—Type-B suction cup

MP 06 to 08 B



Model	Size (mm)				
	D	D1	d	Weight g	
MP06B ☐	7	9.1	6	0.4	
MP08B ☐	9	10.1	8	0.4	

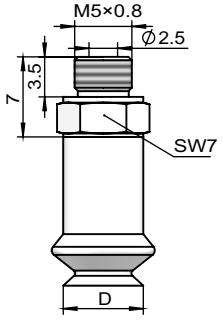
MP 10 to 50 B



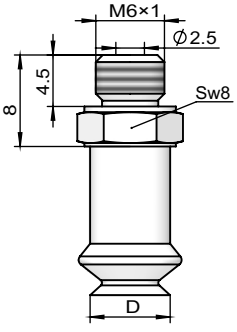
Model	Size (mm)						
	H	D	D1	d	G	Z	Weight g
MP10B ☐	16	12	14	10	13	5.5	1.1
MP13B ☐	18.5	15	19	13	13	7.5	1.7
MP16B ☐	20	18	21	16	13	8.5	2.1
MP20B ☐	23.5	22	25	20	15	10.5	2.9
MP25B ☐	24	27	28	25	15	10.5	3.9
MP32B ☐	29	34	37	32	15	14	6.7
MP40B ☐	34	43	48	40	18	16	13.3
MP50B ☐	38	53	57	50	18	19	18.8

Type-B suction cup (φ6.0–φ8.0mm)—Vacuum port in vertical direction

MPT 06 to 08 B ☐ A5
(M5×0.8 male thread)



MPT 06 to 08 B ☐ A6
(M6×1 male thread)



Model	Size (mm)	
	D	Applicable adapter model
MPT06B ☐ -A5(A6)	7	MPT1-A5(A6)
MPT08B ☐ -A5(A6)	9	MPT1-A5(A6)

MP series

Traceless Static-proof

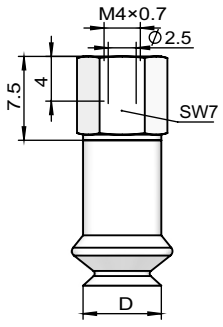
AMILA

Vacuum suction cup with adapter (φ2–φ50)

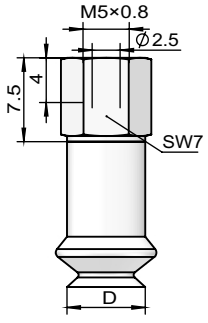
Design parameters of vacuum suction cup with adapter MP

Type-B suction cup (φ6.0–φ8.0mm)—Vacuum port in vertical direction

MPT 06 to 08 B ☐ B4
(M4×0.7 female thread)



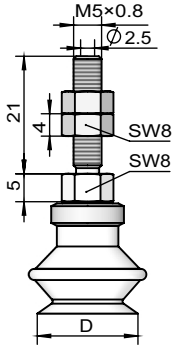
MPT 06 to 08 B ☐ B5
(M5×0.8 female thread)



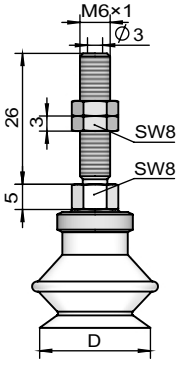
Model	Size (mm) D	Applicable adapter model
MPT06B ☐ -B4(B5)	7	MPT1-B4(B5)
MPT08B ☐ -B4(B5)	9	MPT1-B4(B5)

Type-B suction cup (φ10–φ50mm)—Vacuum port in vertical direction

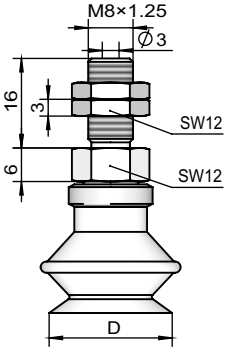
MPT 10 to 16 B ☐ A5
(M5×0.8 male thread)



MPT 10 to 50 B ☐ A6
(M6×1 male thread)



MPT 20 to 50 B ☐ A8
(M8×1.25 male thread)



Model	Size (mm) D	Applicable adapter model
MPT10B ☐ -A5(A6)	12	MPT2-A5(A6)
MPT13B ☐ -A5(A6)	15	MPT2-A5(A6)
MPT16B ☐ -A5(A6)	18	MPT2-A5(A6)
MPT20B ☐ -A6(A8)	23	MPT3-A6(A8)
MPT25B ☐ -A6(A8)	28	MPT3-A6(A8)
MPT32B ☐ -A6(A8)	35	MPT3-A6(A8)
MPT40B ☐ -A6(A8)	43	MPT4-A6(A8)
MPT50B ☐ -A6(A8)	53	MPT4-A6(A8)

MP series

Traceless Static-proof

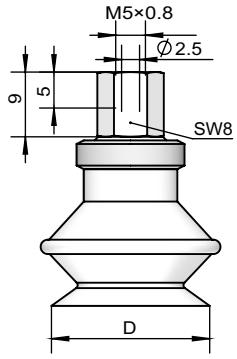
AMILA

Vacuum suction cup with adapter (φ2–φ50)

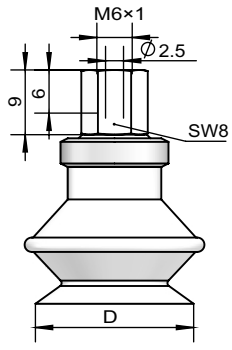
Design parameters of vacuum suction cup with adapter MP

Type-B suction cup (φ10–φ50mm)—Vacuum port in vertical direction

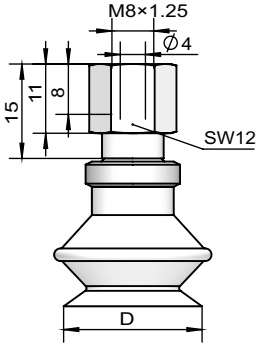
MPT 10 to 32 B ☐ B5
(M5×0.8 female thread)



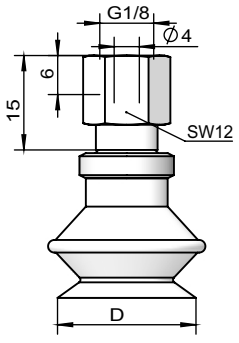
MPT 10 to 50 B ☐ B6
(M6×1 female thread)



MPT 20 to 50 B ☐ B8
(M8×1.25 female thread)



MPT 10 to 50 B ☐ B01
(G1/8 female thread)

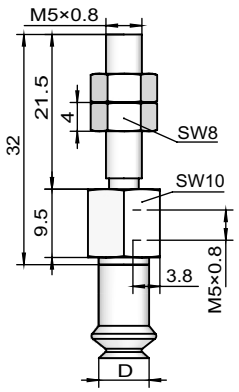


Model	Size (mm)	
	D	Applicable adapter model
MPT10B ☐ -B5(B6/B01)	12	MPT2-B5(B6/B01)
MPT13B ☐ -B5(B6/B01)	15	MPT2-B5(B6/B01)
MPT16B ☐ -B5(B6/B01)	18	MPT2-B5(B6/B01)
MPT20B ☐ -B5(B6/B8/B01)	23	MPT3-B5(B6/B8/B01)
MPT25B ☐ -B5(B6/B8/B01)	28	MPT3-B5(B6/B8/B01)
MPT32B ☐ -B5(B6/B8/B01)	35	MPT3-B5(B6/B8/B01)
MPT40B ☐ -B6(B8/B01)	43	MPT4-B6(B8/B01)
MPT50B ☐ -B6(B8/B01)	53	MPT4-B6(B8/B01)

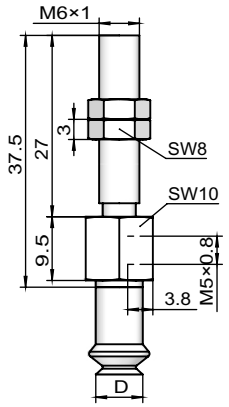
Design parameters of vacuum suction cup with adapter MP

Type-B suction cup (φ6.0–φ8.0mm)—Vacuum port in horizontal direction

MPY 06 to 08 B □ B5-A5
(M5×0.8 male thread)

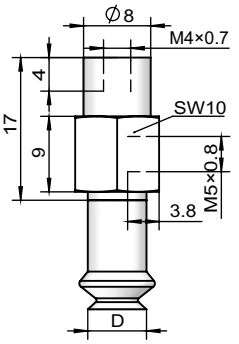


MPY 06 to 08 B □ B5-A6
(M6×1 male thread)

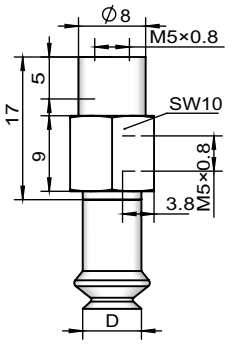


Model	Size (mm) D	Applicable adapter model
MPY06B □-B5-A5(B5-A6)	7	MPY1-B5-A5(B5-A6)
MPY08B □-B5-A5(B5-A6)	9	MPY1-B5-A5(B5-A6)

MPY 06 to 08 B □ B5-B4
(M4×0.7 female thread)



MPY 06 to 08 B □ B5-B5
(M5×0.8 female thread)



Model	Size (mm) D	Applicable adapter model
MPY06B □-B5-B4(B5-B5)	7	MPY1-B5-B4(B5-B5)
MPY08B □-B5-B4(B5-B5)	9	MPY1-B5-B4(B5-B5)

MP series

Traceless Static-proof

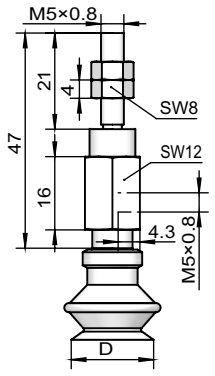
AMILA

Vacuum suction cup with adapter (φ2–φ50)

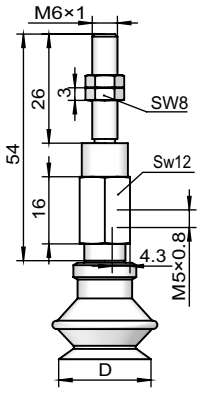
Design parameters of vacuum suction cup with adapter MP

Type-B suction cup (φ10–φ50mm)—Vacuum port in horizontal direction

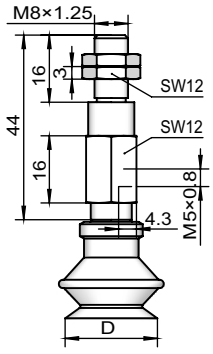
MPY 10 to 16 B □ B5-A5
(M5×0.8 male thread)



MPY 10 to 50 B □ B5-A6
(M6×1 male thread)

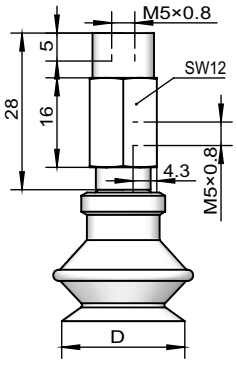


MPY 20 to 50 B □ B5-A8
(M8×1.25 male thread)

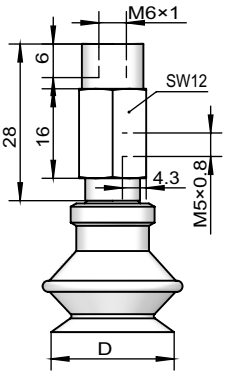


Model	Size (mm) D	Applicable adapter model
MPY10B □-B5-A5(B5-A6)	12	MPY2-B5-A5(B5-A6)
MPY13B □-B5-A5(B5-A6)	15	MPY2-B5-A5(B5-A6)
MPY16B □-B5-A5(B5-A6)	18	MPY2-B5-A5(B5-A6)
MPY20B □-B5-A6(B5-A8)	23	MPY3-B5-A6(B5-A8)
MPY25B □-B5-A6(B5-A8)	28	MPY3-B5-A6(B5-A8)
MPY32B □-B5-A6(B5-A8)	35	MPY3-B5-A6(B5-A8)
MPY40B □-B5-A6(B5-A8)	43	MPY4-B5-A6(B5-A8)
MPY50B □-B5-A6(B5-A8)	53	MPY4-B5-A6(B5-A8)

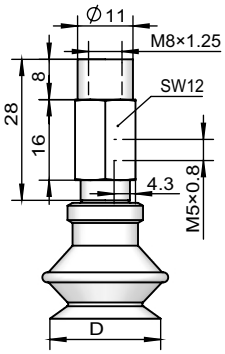
MPY 10 to 32 B □ B5-B5
(M5×0.8 female thread)



MPY 10 to 50 B □ B5-B6
(M6×1 female thread)



MPY 20 to 50 B □ B5-B8
(M8×1.25 female thread)



Model	Size (mm) D	Applicable adapter model
MPY10B □-B5-B5(B5-B6)	12	MPY2-B5-B5(B5-B6)
MPY13B □-B5-B5(B5-B6)	15	MPY2-B5-B5(B5-B6)
MPY16B □-B5-B5(B5-B6)	18	MPY2-B5-B5(B5-B6)
MPY20B □-B5-B5(B5-B6/B5-B8)	23	MPY3-B5-B5(B5-B6/B5-B8)
MPY25B □-B5-B5(B5-B6/B5-B8)	28	MPY3-B5-B5(B5-B6/B5-B8)
MPY32B □-B5-B5(B5-B6/B5-B8)	35	MPY3-B5-B5(B5-B6/B5-B8)
MPY40B □-B5-B6(B5-B8)	43	MPY4-B5-B6(B5-B8)
MPY50B □-B5-B6(B5-B8)	53	MPY4-B5-B6(B5-B8)

MP series

Traceless Static-proof

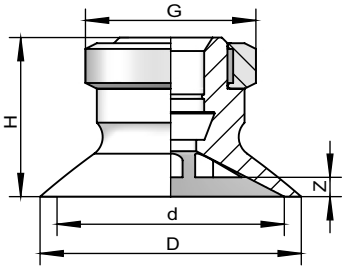
AMILA

Vacuum suction cup with adapter (φ2–φ50)

Design parameters of vacuum suction cup with adapter MP

Size specification (mm)—Type-C suction cup

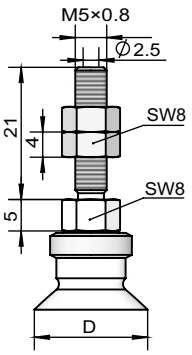
MPT 10 to 50 C



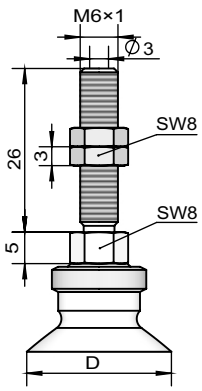
Model	Size [mm]					
	H	D	d	G	Z	Weight g
MP10C ☐	12	12	10	13	1.7	0.8
MP13C ☐	12	15	13	13	1.8	1
MP16C ☐	12.5	18	16	13	1.2	0.9
MP20C ☐	14	23	20	15	1.7	1.6
MP25C ☐	14	28	25	15	1.8	2.1
MP32C ☐	14.5	35	32	15	2.3	2.4
MP40C ☐	18.5	43	40	18	3.3	5.5
MP50C ☐	19.5	53	50	18	3.8	7.3

Type-C suction cup (φ10–φ50mm)—Vacuum port in vertical direction

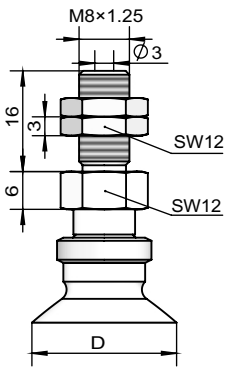
MPT 10 to 16 C ☐ A5
(M5×0.8 male thread)



MPT 10 to 50 C ☐ A6
(M6×1 male thread)



MPT 20 to 50 C ☐ A8
(M8×1.25 male thread)



Model	Size (mm)	Applicable adapter model
	D	
MPT10C ☐ -A5(A6)	12	MPT2-A5(A6)
MPT13C ☐ -A5(A6)	15	MPT2-A5(A6)
MPT16C ☐ -A5(A6)	18	MPT2-A5(A6)
MPT20C ☐ -A6(A8)	23	MPT3-A6(A8)
MPT25C ☐ -A6(A8)	28	MPT3-A6(A8)
MPT32C ☐ -A6(A8)	35	MPT3-A6(A8)
MPT40C ☐ -A6(A8)	43	MPT4-A6(A8)
MPT50C ☐ -A6(A8)	53	MPT4-A6(A8)

MP series

Traceless Static-proof

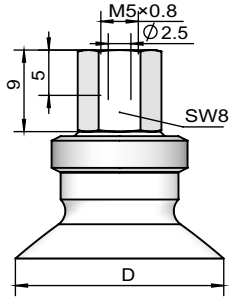
AMILA

Vacuum suction cup with adapter (φ2–φ50)

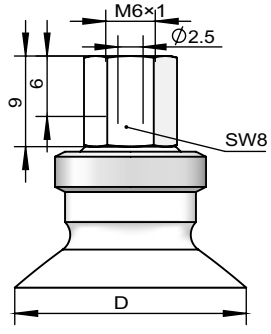
Design parameters of vacuum suction cup with adapter MP

Type-C suction cup (φ10–φ50mm)—Vacuum port in vertical direction

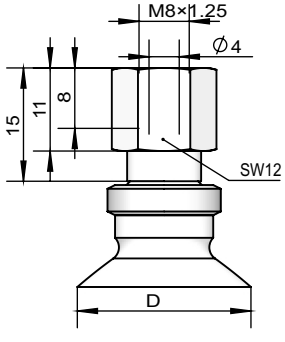
MPT 10 to 32 C □ B5
(M5×0.8 female thread)



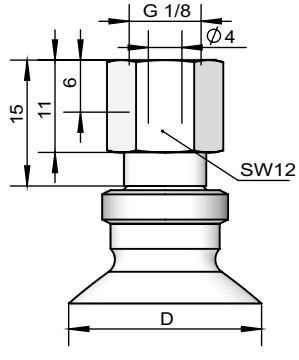
MPT 10 to 50 C □ B6
(M6×1 female thread)



MPT 20 to 50 C □ B8
(M8×1.25 female thread)



MPT 10 to 50 C □ B01
(G1/8 female thread)

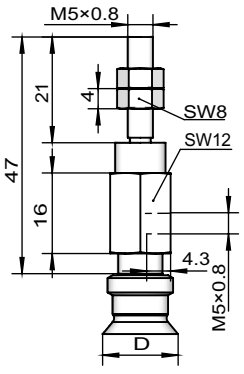


Model	Size (mm) D	Applicable adapter model
MPT10C □ -B5(B6/B01)	12	MPT2-B5(B6/B01)
MPT13C □ -B5(B6/B01)	15	MPT2-B5(B6/B01)
MPT16C □ -B5(B6/B01)	18	MPT2-B5(B6/B01)
MPT20C □ -B5(B6/B8/B01)	23	MPT3-B5(B6/B8/B01)
MPT25C □ -B5(B6/B8/B01)	28	MPT3-B5(B6/B8/B01)
MPT32C □ -B5(B6/B8/B01)	35	MPT3-B5(B6/B8/B01)
MPT40C □ -B6(B8/B01)	43	MPT4-B6(B8/B01)
MPT50C □ -B6(B8/B01)	53	MPT4-B6(B8/B01)

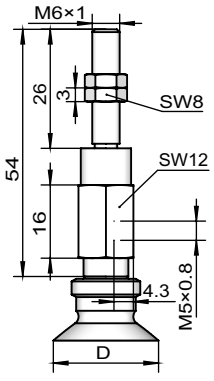
Design parameters of vacuum suction cup with adapter MP

Type-C suction cup (φ10–φ50mm)—Vacuum port in horizontal direction

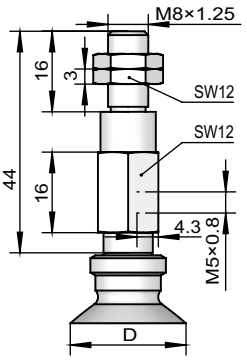
MPY 10 to 16 C ☐ B5-A5
(M5×0.8 male thread)



MPY 10 to 50 C ☐ B5-A6
(M6×1 male thread)

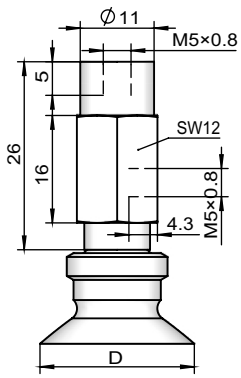


MPY 20 to 50 C ☐ B5-A8
(M8×1.25 male thread)

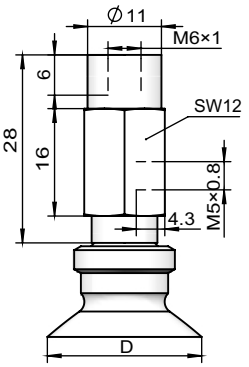


Model	Size (mm) D	Applicable adapter model
MPY10C ☐ -B5-A5(B5-A6)	12	MPY2-B5-A5(B5-A6)
MPY13C ☐ -B5-A5(B5-A6)	15	MPY2-B5-A5(B5-A6)
MPY16C ☐ -B5-A5(B5-A6)	18	MPY2-B5-A5(B5-A6)
MPY20C ☐ -B5-A6(B5-A8)	23	MPY3-B5-A6(B5-A8)
MPY25C ☐ -B5-A6(B5-A8)	28	MPY3-B5-A6(B5-A8)
MPY32C ☐ -B5-A6(B5-A8)	35	MPY3-B5-A6(B5-A8)
MPY40C ☐ -B5-A6(B5-A8)	43	MPY4-B5-A6(B5-A8)
MPY50C ☐ -B5-A6(B5-A8)	53	MPY4-B5-A6(B5-A8)

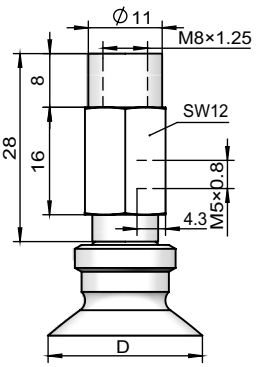
MPY 10 to 32 C ☐ B5-B5
(M5×0.8 female thread)



MPY 10 to 50 C ☐ B5-B6
(M6×1 female thread)



MPY 20 to 50 C ☐ B5-B8
(M8×1.25 female thread)



Model	Size (mm) D	Applicable adapter model
MPY10C ☐ -B5-B5(B5-B6)	12	MPY2-B5-B5(B5-B6)
MPY13C ☐ -B5-B5(B5-B6)	15	MPY2-B5-B5(B5-B6)
MPY16C ☐ -B5-B5(B5-B6)	18	MPY2-B5-B5(B5-B6)
MPY20C ☐ -B5-B5(B5-B6/B5-B8)	23	MPY3-B5-B5(B5-B6/B5-B8)
MPY25C ☐ -B5-B5(B5-B6/B5-B8)	28	MPY3-B5-B5(B5-B6/B5-B8)
MPY32C ☐ -B5-B5(B5-B6/B5-B8)	35	MPY3-B5-B5(B5-B6/B5-B8)
MPY40C ☐ -B5-B6(B5-B8)	43	MPY4-B5-B6(B5-B8)
MPY50C ☐ -B5-B6(B5-B8)	53	MPY4-B5-B6(B5-B8)

MP series

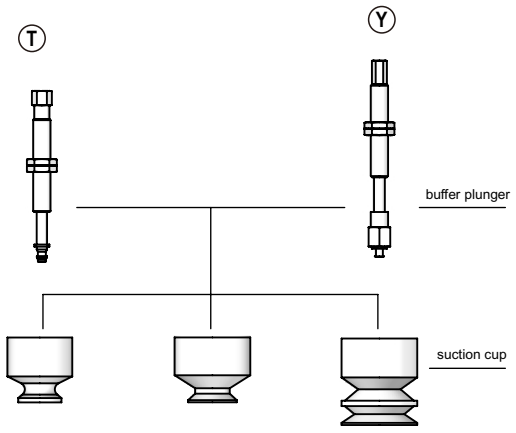
Traceless Static-proof

AMILA

Vacuum suction cup with buffer plunger (φ2–φ50)

3C product

System design of MP vacuum suction cup with buffer plunger



Structure

- The product consists of a replaceable suction cup and a buffer plunger
- The suction cup is equipped with a plug-in joint in the connecting position
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed with a male threaded nut

Guide to purchase of MP vacuum suction cup with buffer plunger

MP T 02 U N J 6 B3-A8

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①Product series	②Vacuum port direction	③Size specification	④Shape specification
MP	T - Vertical Y - Horizontal	02 - Φ2.0mm 04 - Φ4.0mm 06 - Φ6.0mm 08 - Φ8.0mm 10 - Φ10mm 13 - Φ13mm 16 - Φ16mm 20 - Φ20mm 25 - Φ25mm 32 - Φ32mm 40 - Φ40mm 50 - Φ50mm	U – Flat B – Bellows-type C – Ribbed-flat type

⑤Material of suction cup	⑥ Slewing mode	⑦ Buffering stroke	⑧ The specification of vacuum port and installation thread
N-nitrile rubber S-silicone rubber GN- static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS- static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN- traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	J - Slewing K - Non-slewing	6 - 6mm 10 - 10mm 15 - 15mm 20 - 20mm 25 - 25mm 30 - 30mm 40 - 40mm 50 - 50mm	B3-A8—vacuum port with M3×0.5 female thread fitted to M8×1 male thread B5-A8—vacuum port with M5×0.8 female thread fitted to M8×1 male thread B5-A10—vacuum port with M5×0.8 female thread fitted to M10×1 male thread B5-A14—vacuum port with M5×0.8 female thread fitted to M14×1 female thread B01-A14—Vacuum port with G1/8 female thread fitted to M14×1 female thread

MP series

Traceless Static-proof

AMILA

Vacuum suction cup with buffer plunger (φ2–φ50)

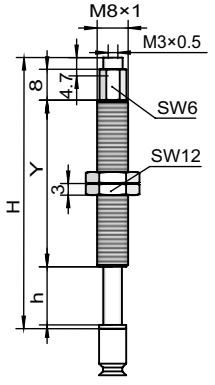
Model specifications of MP small vacuum suction cup with buffer plunger

Model specification	Shape specification			Vacuum port direction		Slewing mode		Buffering stoke	Vacuum port and installation thread specification	
	U	B	C	T (Vertical)	Y (Horizontal)	J (Slewing)	K (Non-slewing)			
φ2.0	●	-	-	●	●	●	●	6 10 15 20 25	B3-A8	B5-A8
φ4.0	●	-	-	●	●	●	●	6 10 15 20 25	B3-A8	B5-A8
φ6.0	●	●	-	●	●	●	●	6 10 15 20 25	B3-A8	B5-A8
φ8.0	●	●	-	●	●	●	●	6 10 15 20 25	B3-A8	B5-A8
φ10	●	●	●	●	●	●	●	10 20 30 40 50		B5-A10
φ13	●	●	●	●	●	●	●	10 20 30 40 50		B5-A10
φ16	●	●	●	●	●	●	●	10 20 30 40 50		B5-A10
φ20	●	●	●	●	●	●	●	10 20 30 40 50		B5-A10
φ25	●	●	●	●	●	●	●	10 20 30 40 50		B5-A10
φ32	●	●	●	●	●	●	●	10 20 30 40 50		B5-A10
φ40	●	●	●	●	●	●	●	10 20 30 50	B5-A14	B01-A14
φ50	●	●	●	●	●	●	●	10 20 30 50	B5-A14	B01-A14

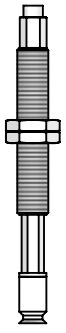
Design parameters of MP small vacuum suction cup with buffer plunger

MPT...B3-A8

Vertical and slewing



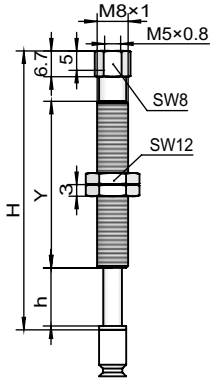
Vertical and non-slewing



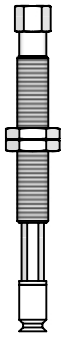
Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPT □ J6B3-A8	32	6	15	MP02to08U MP06to08B	MPT1 J6 B3-A8
MPT □ J10B3-A8	65	10	43	MP02to08U MP06to08B	MPT1 J10 B3-A8
MPT □ J15B3-A8	70	15	43	MP02to08U MP06to08B	MPT1 J15 B3-A8
MPT □ J25B3-A8	80	20	43	MP02to08U MP06to08B	MPT1 J25 B3-A8
MPT □ K6B3-A8	32	6	15	MP02to08U MP06to08B	MPT1 K6 B3-A8
MPT □ K10B3-A8	65	10	43	MP02to08U MP06to08B	MPT1 K10 B3-A8
MPT □ K15B3-A8	70	15	43	MP02to08U MP06to08B	MPT1 K15 B3-A8
MPT □ K25B3-A8	80	20	43	MP02to08U MP06to08B	MPT1 K25 B3-A8

MPT...B5-A8

Vertical and slewing



Vertical and non-slewing



Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPT □ J6B5-A8	34	6	15	MP02to08U MP06to08B	MPT1 J6 B5-A8
MPT □ J10B5-A8	67	10	43	MP02to08U MP06to08B	MPT1 J10 B5-A8
MPT □ J15B5-A8	72	15	43	MP02to08U MP06to08B	MPT1 J15 B5-A8
MPT □ J25B5-A8	82	20	43	MP02to08U MP06to08B	MPT1 J25 B5-A8
MPT □ K6B5-A8	34	6	15	MP02to08U MP06to08B	MPT1 K6 B5-A8
MPT □ K10B5-A8	67	10	43	MP02to08U MP06to08B	MPT1 K10 B5-A8
MPT □ K15B5-A8	72	15	43	MP02to08U MP06to08B	MPT1 K15 B5-A8
MPT □ K25B5-A8	72	20	43	MP02to08U MP06to08B	MPT1 K25 B5-A8

MP series

Traceless Static-proof

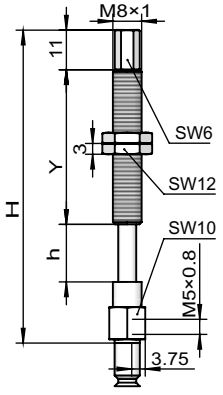
AMILA

Vacuum suction cup with buffer plunger (φ2–φ50)

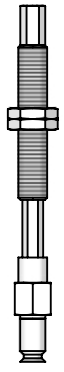
Design parameters of MP small vacuum suction cup with buffer plunger

MPY...B5-A8

Horizontally slewing



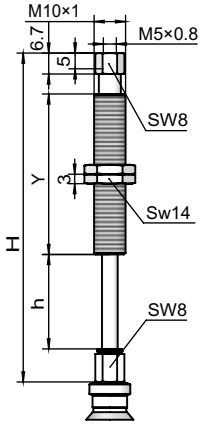
Horizontally non-slewing



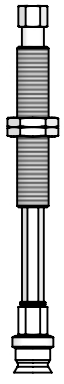
Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPY □ J6B5-A8	51	6	15	MP02to08U MP06to08B	MPY1 J6 B5-A8
MPY □ J10B5-A8	82	10	43	MP02to08U MP06to08B	MPY1 J10 B5-A8
MPY □ J15B5-A8	87	15	43	MP02to08U MP06to08B	MPY1 J15 B5-A8
MPY □ J25B5-A8	97	25	43	MP02to08U MP06to08B	MPY1 J25 B5-A8
MPY □ K6B5-A8	51	6	15	MP02to08U MP06to08B	MPY1 K6 B5-A8
MPY □ K10B5-A8	82	10	43	MP02to08U MP06to08B	MPY1 K10 B5-A8
MPY □ K15B5-A8	87	15	43	MP02to08U MP06to08B	MPY1 K15 B5-A8
MPY □ K25B5-A8	97	25	43	MP02to08U MP06to08B	MPY1 K25 B5-A8

MPT...B5-A10

Vertical and slewing



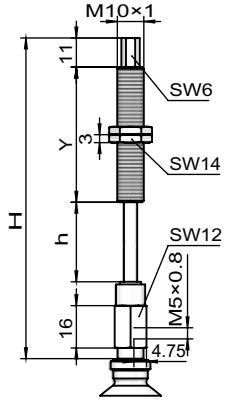
Vertical and non-slewing



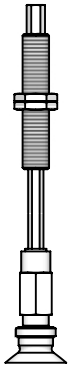
Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPT □ J10B5-A10	56.5	10	23	MP10to16U(B/C)	MPT2 J10 B5-A10
MPT □ J20B5-A10	94.5	20	51	MP10to16U(B/C)	MPT2 J20 B5-A10
MPT □ J30B5-A10	104.5	30	51	MP10to16U(B/C)	MPT2 J30 B5-A10
MPT □ J40B5-A10	140.5	40	77	MP10to16U(B/C)	MPT2 J40 B5-A10
MPT □ J50B5-A10	150.5	50	77	MP10to16U(B/C)	MPT2 J50 B5-A10
MPT □ K10B5-A10	56.5	10	23	MP10to16U(B/C)	MPT2 K10 B5-A10
MPT □ K20B5-A10	94.5	20	51	MP10to16U(B/C)	MPT2 K20 B5-A10
MPT □ K30B5-A10	104.5	30	51	MP10to16U(B/C)	MPT2 K30 B5-A10
MPT □ K40B5-A10	140.5	40	77	MP10to16U(B/C)	MPT2 K40 B5-A10
MPT □ K50B5-A10	150.5	50	77	MP10to16U(B/C)	MPT2 K50 B5-A10

MPY...B5-A10

Horizontally slewing



Horizontally non-slewing



Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPY □ J10B5-A10	71.5	10	23	MP10to16U(B/C)	MPY2 J10 B5-A10
MPY □ J20B5-A10	109.5	20	51	MP10to16U(B/C)	MPY2 J20 B5-A10
MPY □ J30B5-A10	119.5	30	51	MP10to16U(B/C)	MPY2 J30 B5-A10
MPY □ J40B5-A10	155.5	40	77	MP10to16U(B/C)	MPY2 J40 B5-A10
MPY □ J50B5-A10	165.5	50	77	MP10to16U(B/C)	MPY2 J50 B5-A10
MPY □ K10B5-A10	71.5	10	23	MP10to16U(B/C)	MPY2 K10 B5-A10
MPY □ K20B5-A10	109.5	20	51	MP10to16U(B/C)	MPY2 K20 B5-A10
MPY □ K30B5-A10	119.5	30	51	MP10to16U(B/C)	MPY2 K30 B5-A10
MPY □ K40B5-A10	155.5	40	77	MP10to16U(B/C)	MPY2 K40 B5-A10
MPY □ K50B5-A10	165.5	50	77	MP10to16U(B/C)	MPY2 K50 B5-A10

MP series

Traceless Static-proof

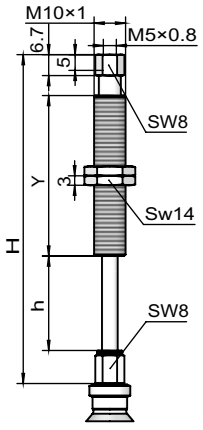
AMILA

Vacuum suction cup with buffer plunger (φ2–φ50)

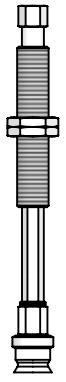
Design parameters of MP small vacuum suction cup with buffer plunger

MPT...B5-A10

Vertical and slewing



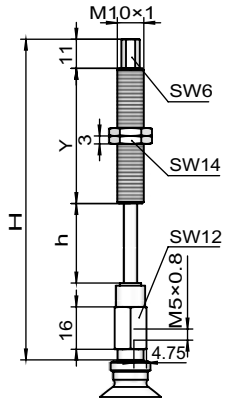
Vertical and non-slewing



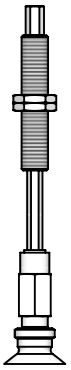
Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPT □ J10B5-A10	56.5	10	23	MP20to32U(B/C)	MPT3 J10 B5-A10
MPT □ J20B5-A10	94.5	20	51	MP20to32U(B/C)	MPT3 J20 B5-A10
MPT □ J30B5-A10	104.5	30	51	MP20to32U(B/C)	MPT3 J30 B5-A10
MPT □ J40B5-A10	140.5	40	77	MP20to32U(B/C)	MPT3 J40 B5-A10
MPT □ J50B5-A10	150.5	50	77	MP20to32U(B/C)	MPT3 J50 B5-A10
MPT □ K10B5-A10	56.5	10	23	MP20to32U(B/C)	MPT3 K10 B5-A10
MPT □ K20B5-A10	94.5	20	51	MP20to32U(B/C)	MPT3 K20 B5-A10
MPT □ K30B5-A10	104.5	30	51	MP20to32U(B/C)	MPT3 K30 B5-A10
MPT □ K40B5-A10	140.5	40	77	MP20to32U(B/C)	MPT3 K40 B5-A10
MPT □ K50B5-A10	150.5	50	77	MP20to32U(B/C)	MPT3 K50 B5-A10

MPY...B5-A10

Horizontally slewing



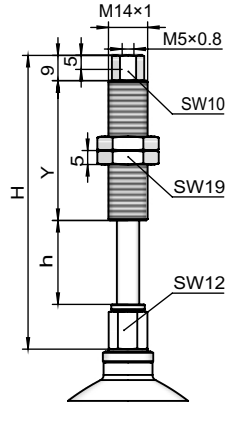
Horizontally non-slewing



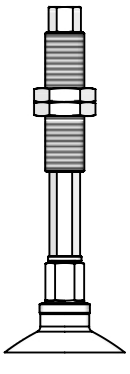
Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPY □ J10B5-A10	71.5	10	23	MP20to32U(B/C)	MPY3 J10 B5-A10
MPY □ J20B5-A10	109.5	20	51	MP20to32U(B/C)	MPY3 J20 B5-A10
MPY □ J30B5-A10	119.5	30	51	MP20to32U(B/C)	MPY3 J30 B5-A10
MPY □ J40B5-A10	155.5	40	77	MP20to32U(B/C)	MPY3 J40 B5-A10
MPY □ J50B5-A10	165.5	50	77	MP20to32U(B/C)	MPY3 J50 B5-A10
MPY □ K10B5-A10	71.5	10	23	MP20to32U(B/C)	MPY3 K10 B5-A10
MPY □ K20B5-A10	109.5	20	51	MP20to32U(B/C)	MPY3 K20 B5-A10
MPY □ K30B5-A10	119.5	30	51	MP20to32U(B/C)	MPY3 K30 B5-A10
MPY □ K40B5-A10	155.5	40	77	MP20to32U(B/C)	MPY3 K40 B5-A10
MPY □ K50B5-A10	165.5	50	77	MP20to32U(B/C)	MPY3 K50 B5-A10

MPT...B5-A14

Vertical and slewing



Vertical and non-slewing



Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPT □ J10B5-A14	91	10	50	MP40to50U(B/C)	MPT4 J10 B5-A14
MPT □ J20B5-A14	95	20	50	MP40to50U(B/C)	MPT4 J20 B5-A14
MPT □ J30B5-A14	105	30	50	MP40to50U(B/C)	MPT4 J30 B5-A14
MPT □ J50B5-A14	150	50	75	MP40to50U(B/C)	MPT4 J50 B5-A14
MPT □ K10B5-A14	91	10	50	MP40to50U(B/C)	MPT4 K10 B5-A14
MPT □ K20B5-A14	95	20	50	MP40to50U(B/C)	MPT4 K20 B5-A14
MPT □ K30B5-A14	105	30	50	MP40to50U(B/C)	MPT4 K30 B5-A14
MPT □ K50B5-A14	150	50	75	MP40to50U(B/C)	MPT4 K50 B5-A14

MP series

Traceless Static-proof

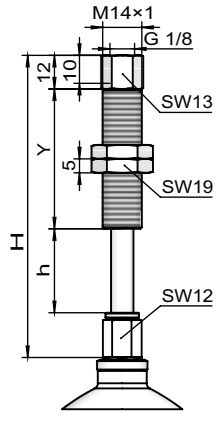
AMILA

Vacuum suction cup with buffer plunger (φ2–φ50)

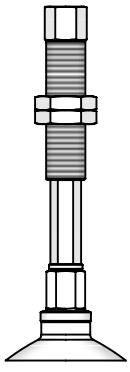
Design parameters of MP small vacuum suction cup with buffer plunger

MPT...B01-A14

Vertical and slewing



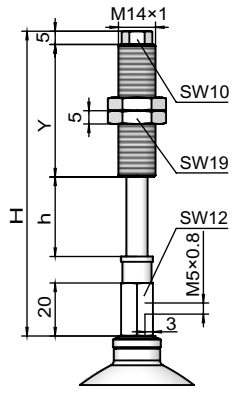
Vertical and non-slewing



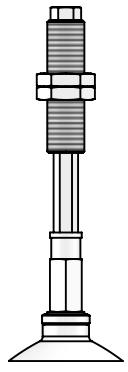
Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPT □ J10B01-A14	92.5	10	50	MP40to50U(B/C)	MPT4 J10 B01-A14
MPT □ J20B01-A14	98	20	50	MP40to50U(B/C)	MPT4 J20 B01-A14
MPT □ J30B01-A14	108	30	50	MP40to50U(B/C)	MPT4 J30 B01-A14
MPT □ J50B01-A14	153	50	75	MP40to50U(B/C)	MPT4 J50 B01-A14
MPT □ K10B01-A14	92.5	10	50	MP40to50U(B/C)	MPT4 K10 B01-A14
MPT □ K20B01-A14	98	20	50	MP40to50U(B/C)	MPT4 K20 B01-A14
MPT □ K30B01-A14	108	30	50	MP40to50U(B/C)	MPT4 K30 B01-A14
MPT □ K50B01-A14	153	50	75	MP40to50U(B/C)	MPT4 K50 B01-A14

MPY...B5-A14

Horizontally slewing



Horizontally non-slewing



Model	Size (mm)			Applicable suction cup	Applicable buffer plunger model
	H	h	Y		
MPY □ J10B5-A14	108	10	50	MP40to50U(B/C)	MPY4 J10 B5-A14
MPY □ J20B5-A14	105	20	50	MP40to50U(B/C)	MPY4 J20 B5-A14
MPY □ J30B5-A14	115	30	50	MP40to50U(B/C)	MPY4 J30 B5-A14
MPY □ J50B5-A14	160	50	75	MP40to50U(B/C)	MPY4 J50 B5-A14
MPY □ K10B5-A14	108	10	50	MP40to50U(B/C)	MPY4 K10 B5-A14
MPY □ K20B5-A14	105	20	50	MP40to50U(B/C)	MPY4 K20 B5-A14
MPY □ K30B5-A14	115	30	50	MP40to50U(B/C)	MPY4 K30 B5-A14
MPY □ K50B5-A14	160	50	75	MP40to50U(B/C)	MPY4 K50 B5-A14

MP2-PEEK series

Traceless Static-proof

AMILA

Vacuum suction cup core (traceless suction solution)

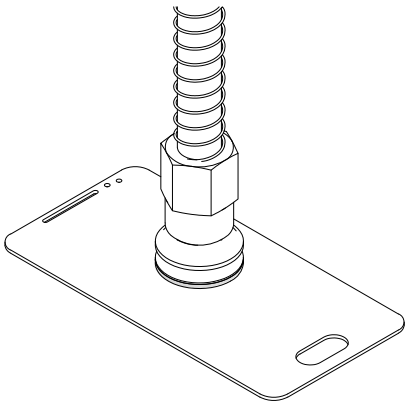
3C product



Introduction

◆ Equipped with a core made of the PEEK material on the basis of the MPT Type-B bellows series, the traceless suction cup core of this series can effectively prevent the suction cup made of rubber from adhering to the suctioned object so as to achieve traceless suction.

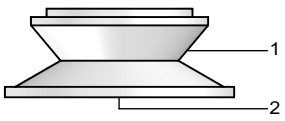
Application of the MP2-PEEK vacuum suction cup



Application

◆ Mainly suitable for applications with requirements for suction trace, e.g. semiconductor, display and photovoltaic industries, etc.

System design of MP2-PEEK vacuum suction cup



Structure

◆ (1) Suction cup connecting part

◆ (2) Suction surface

MP2-PEEK series

Traceless Static-proof

AMILA

Vacuum suction cup core (traceless suction solution)

MP2 vacuum suction cup core purchase guide

MP2 - 06 PEEK

① ② ③

①Product series	②Size specification	③Cup core material
MP2	**06** - φ6mm **08** - φ8mm **10** - φ10mm **13** - φ13mm **16** - φ16mm **20** - φ20mm **25** - φ25mm **32** - φ32mm	PEEK -Polyether ether ketone PGEK - Static-proof polyether ether ketone

Mp2 Material data

Model	Material	Rockwell hardness HRC	Applicable temperature range	Color	Surface specific resistance	Applicable suction cup diameter
PEEK	Polyether ether ketone	105	-10~250°C	Beige	-	φ6~φ32
PGEK	Static-proof polyether ether ketone	105	-10~250°C	Black	10^4~10^9Ω·cm	φ6~φ32

MP2-PEEK series

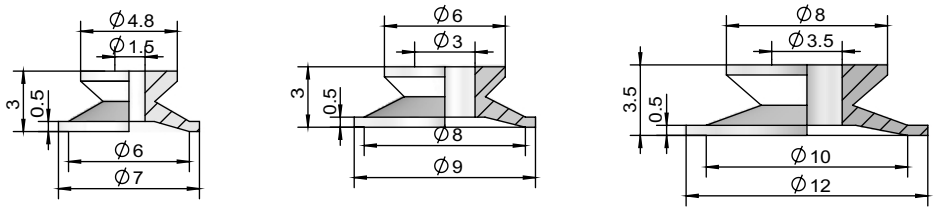
Traceless Static-proof

AMILA

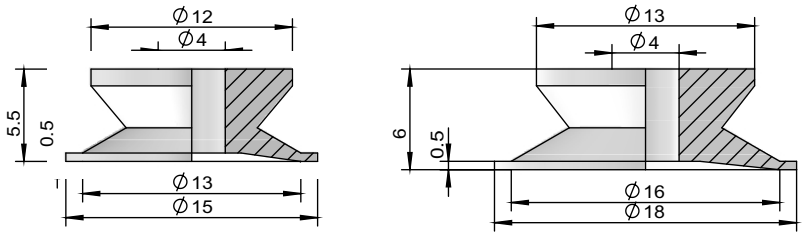
Vacuum suction cup core (traceless suction solution)

Design parameters of MP2 vacuum suction cup core

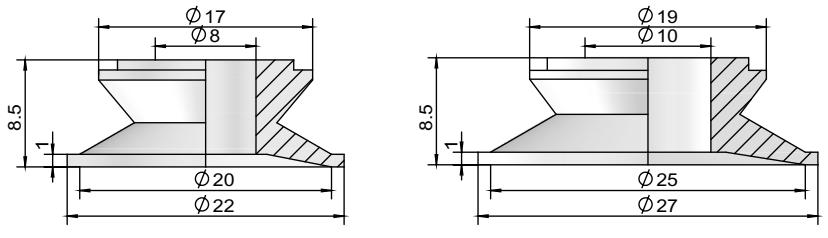
MP2- 06 to 10 □



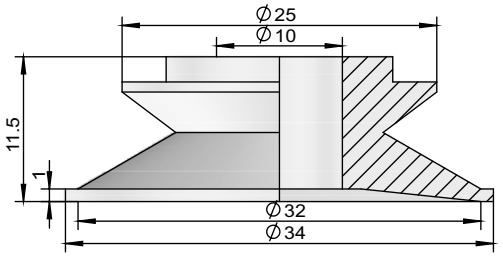
MP2-13 to 16 □



MP2-20 to 25 □



MP2-32 □



MP2-MT series

Vacuum suction cup (φ10–φ30)

Traceless Static-proof

AMILA

3C product

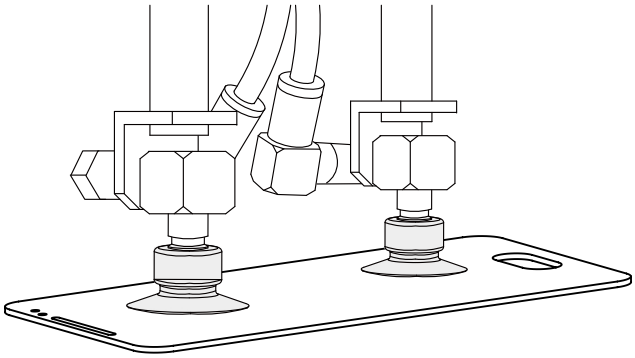


MT - Low grooved surface

Introduction

- Thin edge, even suction cup surface, short stoke
- With support structure in the bottom
- Complete sizes
- Good sealing performance suitable for light and thin workpieces with even surfaces
- Can prevent paper and film suctioned from being wrinkled
- Applicable to workpieces of different sizes and in different shapes

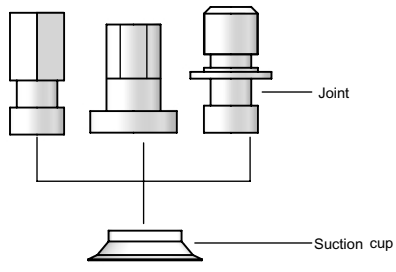
Application of the MP2-MT vacuum suction cup



Application

- Suitable for the application with stringent requirements for traces on the product being handled, such as paper, plastic film, aluminum foil, electronic display, etc.

System design of MP2-MT vacuum suction cup



Structure

- With a split structure design, vulnerable elements can be easily replaced

MP2-MT series

Vacuum suction cup (φ10–φ30)

Traceless Static-proof

AMILA

MP2-MT vacuum suction cup purchase guide

MP2 - B10 MT N -A5

① ② ③ ④ ⑤

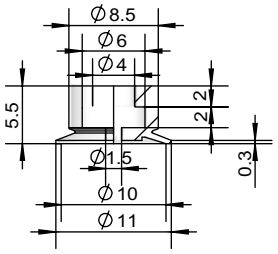
① Product series	② Size specification	③ Shape specification	④ Material of suction cup	⑤ Joint specification
MP2	**B10** - φ10mm **B15** - φ15mm **B20** - φ20mm **B25** - φ25mm **B30** - φ30mm	MT - Low grooved surface	N - nitrile rubber S - silicone rubber F - fluorine rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	Null - Bare suction cup A5 - M5×0.8 male thread B5 - M5×0.8 female thread

Model specifications of MP2-MT vacuum suction cup

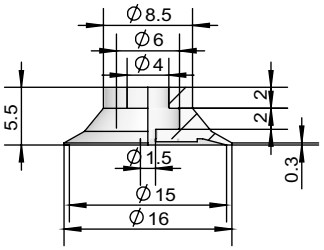
specification	Connection specification	
	A5(M5×0.8 male thread)	B5(M5×0.8 female thread)
φ10	●	●
φ15	●	●
φ20	●	-
φ25	●	-
φ30	●	-

Design parameters of MP2-MT vacuum suction cup

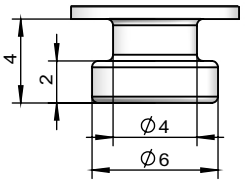
MP2-B10 MT□



MP2-B15 MT□



MP2-B10 to 15 ...(Joint)



MP2-MT series

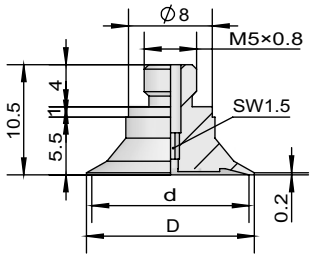
Vacuum suction cup (φ10–φ30)

Traceless Static-proof

AMILA

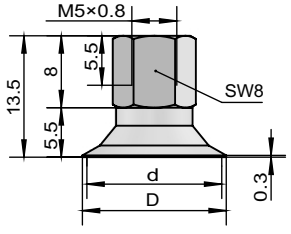
Design parameters of MP2-MT vacuum suction cup

MP2-B10 to 15 MT □ -A5 (M5×0.8 male thread)



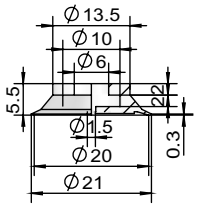
Model	Size[mm] D	d	Weight g	Applicable joint model
MP2-B10 MT □ -A5	11	10	0.78	MP2A-M02P
MP2-B15 MT □ -A5	16	15	0.96	MP2A-M02P

MP2-B10 to 15 MT □ -B5 (M5×0.8 female thread)

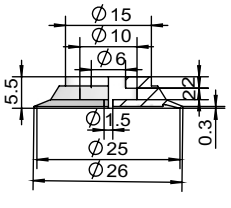


Model	Size[mm] D	d	Weight g	Applicable joint model
MP2-B10 MT □ -B5	11	10	1.62	MP2A-M04
MP2-B15 MT □ -B5	16	15	1.80	MP2A-M04

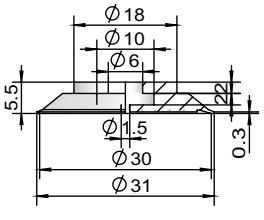
MP2-B20 MT □



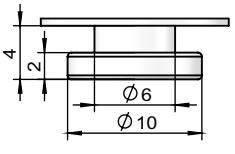
MP2-B25 MT □



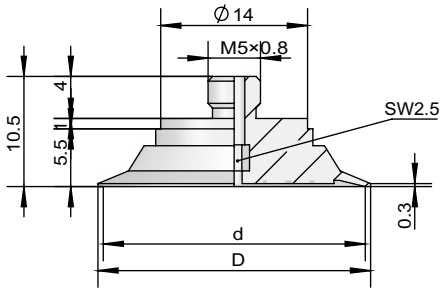
MP2-B30 MT □



MP2-B20 to 30...(joint)



MP2-B20 to 30 MT □ -A5 (M5×0.8 male thread)



Model	Size[mm] D	d	Weight g	Applicable joint model
MP2-B20 MT □ -A5	21	20	2.13	MP2A-M03P
MP2-B25 MT □ -A5	26	25	2.60	MP2A-M03P
MP2-B30 MT □ -A5	31	30	3.62	MP2A-M03P

MP2-MB series

Vacuum suction cup (φ4–φ20)

Traceless Static-proof

AMILA

3C product

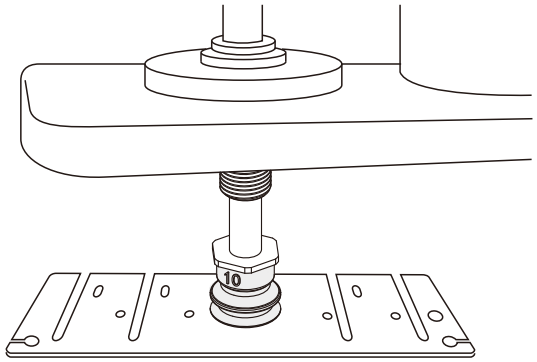


MB - Low double-layer

Introduction

- 1.5-fold bellows suction cup
- Soft and taper sealing part
- Complete sizes
- Workpiece height difference compensation, and good buffering during contact with the workpiece
- Good sealing during handling of workpieces with uneven surfaces
- Applicable to workpieces of different sizes and in different shapes

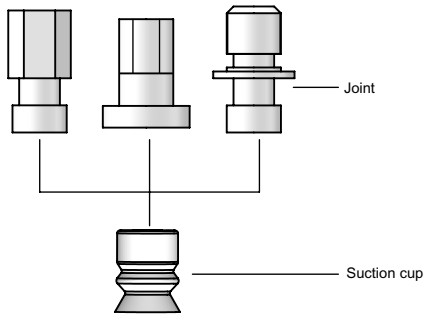
Application of the MP2-MB vacuum suction cup



Application

- Handles fragile workpieces such as electronic components, injection-molded parts, electronic displays, etc.

System design of MP2-MB vacuum suction cup



Structure

- With a split structure design, vulnerable elements can be easily replaced

MP2-MB series

Vacuum suction cup (φ4–φ20)

Traceless Static-proof

AMILA

MP2-MB vacuum suction cup purchase guide

MP2 - B04 MB N - A3

① ② ③ ④ ⑤

①Product series	②Size specification	③Shape specification	④Material of suction cup	⑤Joint specification
MP2	**B04** - φ4mm **B06** - φ6mm **B08** - φ8mm **B10** - φ10mm **B15** - φ15mm **B20** - φ20mm	MB - Low double-layer	N-nitrile rubber S- silicone rubber F - fluorine rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	Null - Bare suction cup A3 - M3×0.5 male thread A5 - M5×0.8 male thread B5 - M5×0.8 female thread

Model specifications of MP2-MB vacuum suction cup

Model specification	Connection specification		
	A3(M3×0.5 male thread)	A5(M5×0.8 female thread)	B5(M5×0.8 female thread)
φ04	●	-	-
φ06	-	●	●
φ08	-	●	●
φ10	-	●	-
φ15	-	●	-
φ20	-	●	-

MP2-MB series

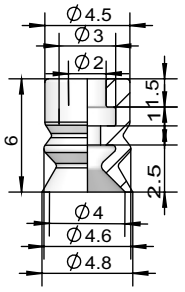
Vacuum suction cup (φ4–φ20)

Traceless Static-proof

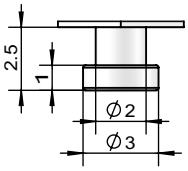
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Design parameters of MP2-MB vacuum suction cup

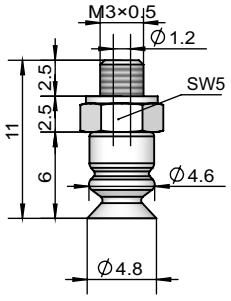
MP2-B04 MB □



MP2-B04 ...(joint)

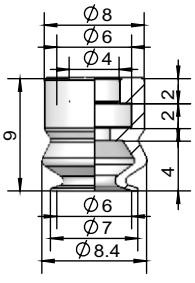


MP2-B04 MB□ -A3 (M3×0.5 male thread)

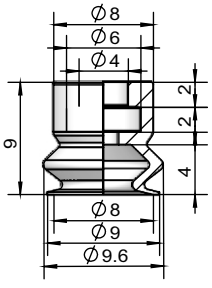


Model	Size (mm) weight g	Applicable joint model
MP2-B04 MB □ -A3	0.29	MP2A-M01P

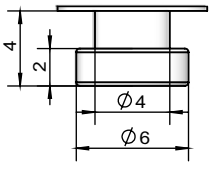
MP2-B06 MB□



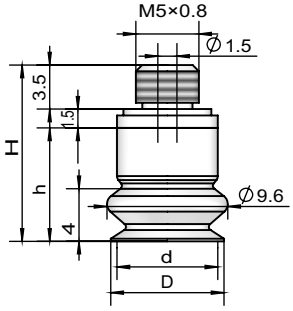
MP2-08 MB□



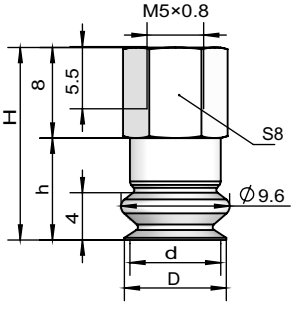
MP2-B06 to 08 ...(joint)



MP2-B06to08 MB□-A5(M5×0.8 male thread)



MP2-B06to08 MB□-B5 (M5×0.8 female thread)



Model	(mm) D	d	H	h	weight g	Applicable joint model
MP2-B06 MB □-A5	7	6	14	9	0.77	MP2A-M02P
MP2-B08 MB □-A5	9	8	14	9	1.17	MP2A-M02P

Model	(mm) D	d	H	h	weight g	Applicable joint model
MP2-B06 MB □ -B5	7	6	17	9	1.58	MP2A-M04
MP2-B08 MB □ -B5	9	8	17	9	1.73	MP2A-M04

Model Size (mm)

MP2-MB series

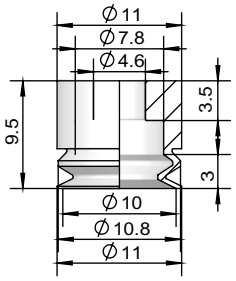
Vacuum suction cup (φ4–φ20)

Traceless Static-proof

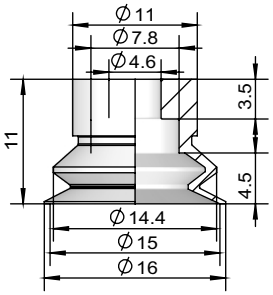
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Design parameters of MP2-MB vacuum suction cup

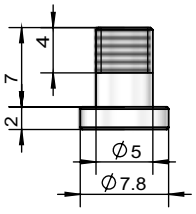
MP2-B10 MB □



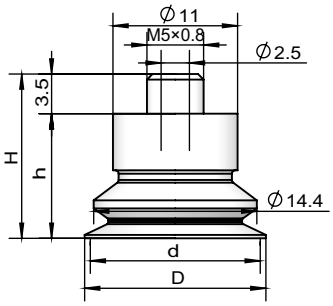
MP2-B15 MB □



MP2-B10 to 15 ...(joint)

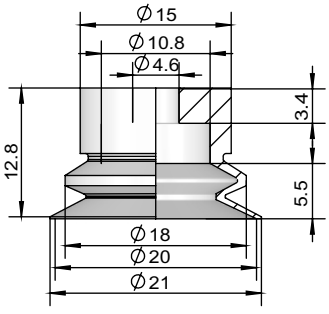


MP2-B10 to 15 MB □ -A5 (M5×0.8 male thread)

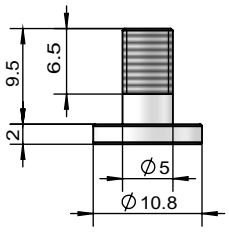


Model	(mm)				weight g	Applicable joint model
	D	d	H	h		
MP2-B10 MB □ -A5	11	10	13	9.5	1.10	MP2A-M05
MP2-B15 MB □ -A5	16	15	14.5	11	1.35	MP2A-M05

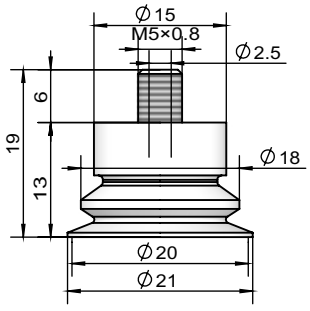
MP2-B20 MB □



MP2-B20 ...(joint)



MP2-B20 MB □ -A5 (M5×0.8 male thread)



Model	(mm)		Applicable joint model
	weight g		
MP2-B20 MB □ -A5	2.68		MP2A-M06

MP2-AN series

Vacuum suction cup (φ0.8–φ1.1)

Traceless Static-proof

AMILA

3C product

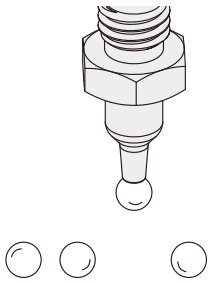


AN - Nozzle

Introduction

- Unique nozzle gripper design
- Very small diameter of the suction cup
- Special static-proof material
- Can grip small workpieces quickly
- A mini suction cup suitable for the application in which product installation position is limited

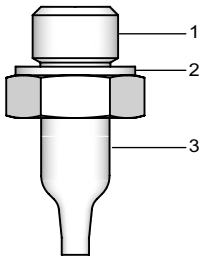
Application of the MP2-AN vacuum suction cup



Application

- Applicable to handling small electronic components and metal sheets
- Applicable to handling small-sized light weight workpieces
- The special static-proof material is applicable to the 3C product industry

System design of MP2-AN vacuum suction cup



Structure

- (1) Joint
- (2) Gasket
- (3) Gripper

MP2-AN series

Vacuum suction cup (φ0.8–φ1.1)

Traceless Static-proof

AMILA

MP2-AN vacuum suction cup purchase guide

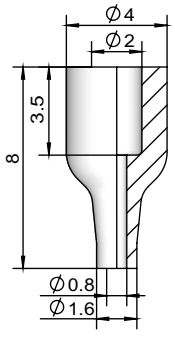
MP2 - 08 AN N - A5

① ② ③ ④ ⑤

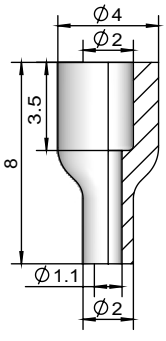
① Product series	② Size specification	③ Shape specification	④ Material of suction cup	⑤ Joint specification
MP2	**08** - Φ0.8mm **11** - Φ1.1mm	AN - Nozzle	N-nitrile rubber S- silicone rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	Null - Bare suction cup A5 - M5×0.8 male thread

Design parameters of MP2-AN vacuum suction cup

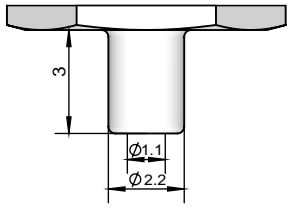
MP2-08 AN☐



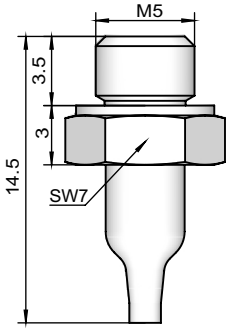
MP2-11 AN☐



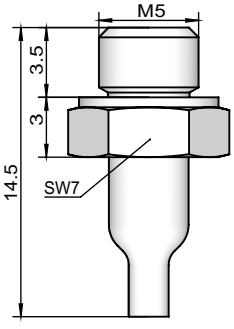
MP2A-Z21P(joint)



MP2-08 AN ☐ -A5 (M5×0.8 male thread)



MP2-11 AN ☐ -A5 (M5×0.8 male thread)



Model	(mm) weight g	Applicable joint model
MP2-08 AN ☐ -A5	0.58	MP2A-Z21P
MP2-11 AN ☐ -A5	0.58	MP2A-Z21P

MP2-W series

Traceless Static-proof

Vacuum suction cup (3.5×7mm~8×30mm)

AMILA

3C product

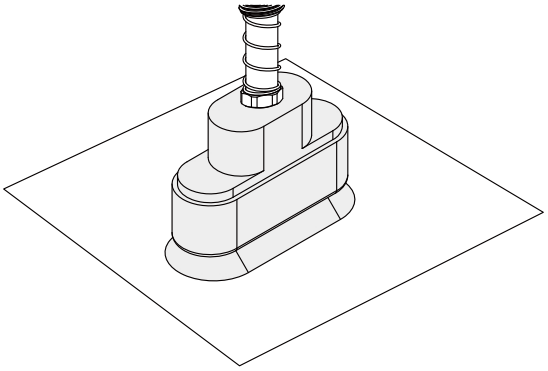


W - Oval flat type

Introduction

- Single-layer oblong suction cup design
- Special static-proof material
- Complete sizes
- Small size and large suction force suitable for handling of long thin workpieces
- Applicable to workpieces of different sizes and in different shapes

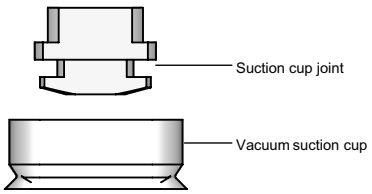
Application of the MP2-W vacuum suction cup



Application

- Suitable for handling long thin workpieces with even surfaces
- Suitable for handling various electronic elements
- The special static-proof material is applicable to the 3C product industry

System design of MP2-W vacuum suction cup



Structure

- With a split structure design, vulnerable elements can be easily replaced

MP2-W series

Traceless Static-proof

Vacuum suction cup (3.5×7mm~8×30mm)

AMILA

MP2-W vacuum suction cup purchase guide

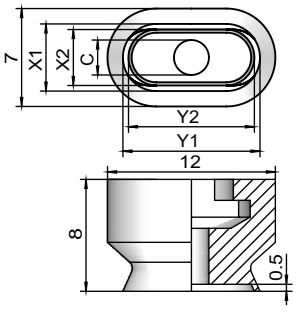
MP2 - 3507 W N - B5

① ② ③ ④ ⑤

① Product series	② Size specification	③ Shape specification	④ Material of suction cup	⑤ Joint specification
MP2	**3507** - 3.5×7mm **4010** - 4×10mm **5010** - 5×10mm **6010** - 6×10mm **4020** - 4×20mm **5020** - 5×20mm **6020** - 6×20mm **8020** - 8×20mm **4030** - 4×30mm **5030** - 5×30mm **6030** - 6×30mm **8030** - 8×30mm	W - Oval flat type	N-nitrile rubber S- silicone rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	Null - Bare suction cup B5 - M5×0.8 female thread

Design parameters of MP2-W vacuum suction cup

MP2-3507 to 6010 W...



Model	(mm)					weight g	Applicable joint model
	X1	X2	Y1	Y2	C		
MP2-3507W□	4.5	3.5	7	8	1.5	0.42	MP2A-001
MP2-4010W□	5	4	10	11	1.5	0.41	MP2A-001
MP2-5010W□	6	5	10	11	2.5	0.44	MP2A-001
MP2-6010W□	7	6	10	11	2.5	0.42	MP2A-001

MP2-W series

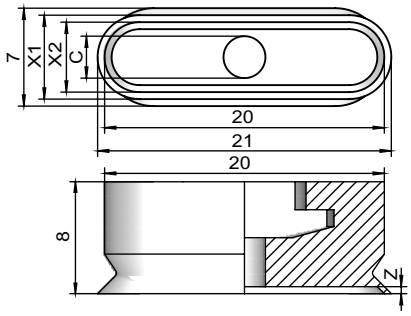
Traceless Static-proof

AMILA

Vacuum suction cup (3.5×7mm~8×30mm)

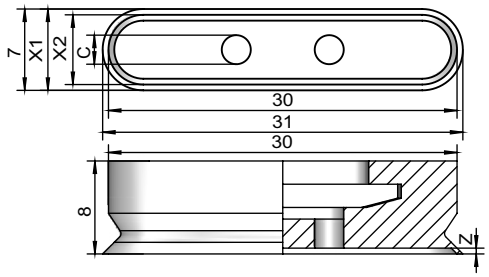
Design parameters of MP2-W vacuum suction cup

MP2-4020 to 8020 W...



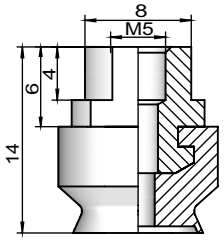
Model	(mm)					Applicable
	X1	X2	C	Z	weight g	joint model
MP2-4020W☐	5	4	1.8	0.5	0.76	MP2A-002
MP2-5020W☐	6	5	2	0.5	0.81	MP2A-002
MP2-6020W☐	7	6	2.5	0.5	0.80	MP2A-002
MP2-8020W☐	9	8	3	0.8	0.80	MP2A-002

MP2-4030 to 8030 W...

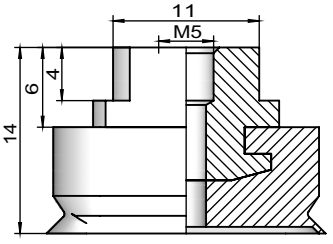


Model	(mm)					Applicable
	X1	X2	C	Z	weight g	joint model
MP2-4030W☐	5	4	1.8	0.5	1.24	MP2A-003
MP2-5030W☐	6	5	2.5	0.5	1.26	MP2A-003
MP2-6030W☐	7	6	2.5	0.5	1.24	MP2A-003
MP2-8030W☐	9	8	2.5	0.8	1.25	MP2A-003

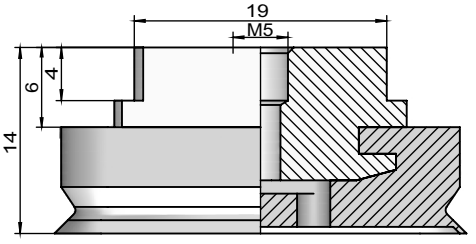
MP2-3507to 6010 W ☐ -B5
(M5×0.8 female thread)



MP2-4020to 8020 W ☐ -B5
(M5×0.8 female thread)



MP2-4030to 8030 W ☐ -B5
(M5×0.8 female thread)



MP2-W series

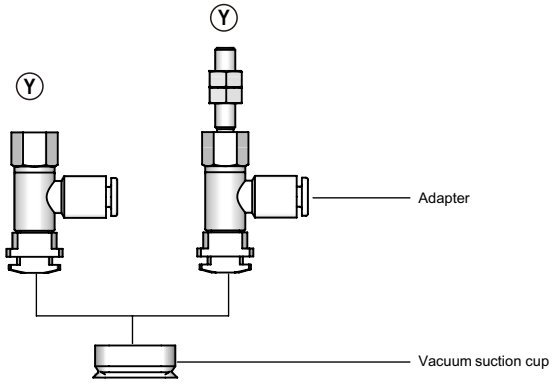
Traceless Static-proof

AMILA

Adapter-equipped vacuum suction cup (3.5×7mm~8×30mm)

3C product

Structure System design of MP2-W adapter-equipped vacuum suction cup



Structure

- The product consistes of a replaceable suction cup and a suction cup joint or an adapter
- The suction cup is equipped with a plug-in joint in the connecting position
- The vacuum port in vertical direction is installed through female thread
- The vacuum port in vertical direction is installed with an female threaded nut or a male threaded nut

MP2-W adapter-equipped vacuum suction cup purchase guide

MP2 - Y 3507 W N - 04 - A5

① ② ③ ④ ⑤ ⑥ ⑦

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification
MP2	**Y** - Horizontal	**3507** - 3.5×7mm **6020** - 6×20mm **4010** - 4×10mm **8020** - 8×20mm **5010** - 5×10mm **4030** - 4×30mm **6010** - 6×10mm **5030** - 5×30mm **4020** - 4×20mm **6030** - 6×30mm **5020** 5×20mm **8030** - 8×30mm	W - Oval flat

⑤ Material of suction cup	⑥ Vacuum port	⑦ Adapter specification
N-nitrile rubber S- silicone rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	**04** - plug-in joint for φ4mm hose **06** - plug-in joint for φ6mm hose	A5 - M5×0.8 male thread B5 - M5×0.8 female thread

MP2-W series

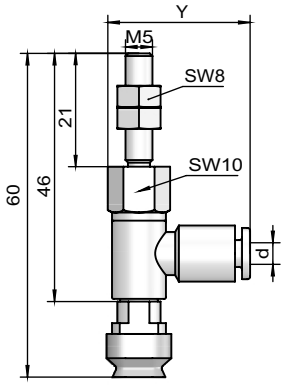
Traceless Static-proof

AMILA

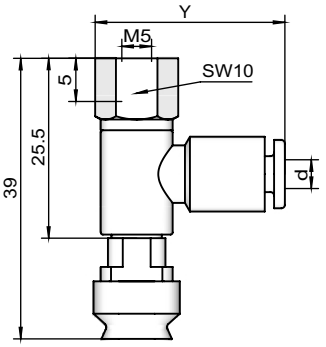
Adapter-equipped vacuum suction cup (3.5×7mm~8×30mm)

Design parameters of MP2-W vacuum suction cup

MP2-Y□W...A5
Horizontally-mounted
fitted to M5×0.8 male thread



MP2-Y□W...B5
Horizontally-mounted
fitted to M5×0.8 female thread



Model	(mm) Y	d	weight g	Applicable joint model
MP2 Y□W□04-A5	26.3	4	11.26	MPRS-04-A5
MP2 Y□W□06-A5	27.3	6	12.30	MPRS-06-A5

Model	(mm) Y	d	weight g	Applicable joint model
MP2 Y□W□04-B5	26.3	4	7.30	MPRS-04-B5
MP2 Y□W□06-B5	27.3	6	8.38	MPRS-06-B5

MP2-W series

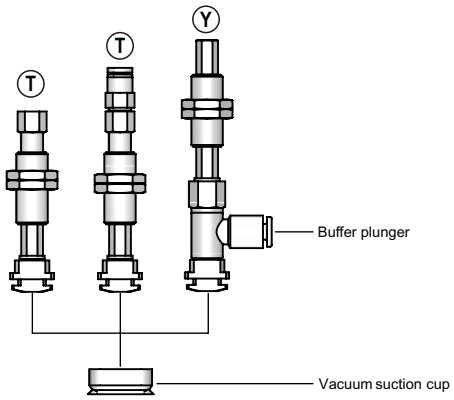
Traceless Static-proof

AMILA

Vacuum suction cup with buffer plunger (3.5×7mm~8×30mm)

3C product

System design of MP2-W vacuum suction cup with buffer plunger



Structure

- The product consists of a replaceable suction cup and a buffer plunger
- The suction cup is equipped with a plug-in joint in the connecting position
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed with a male threaded nut

Guide to purchase of MP2-W vacuum suction cup with buffer plunger

MP2 - T 3507 W N - K 10 - B5

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification
MP2	**T** - Vertical **Y** - Horizontal Note: When Y is selected, the B5 option of the "Adapter specification" item will be disabled	**3507** - 3.5×7mm **4010** - 4×10mm **5010** - 5×10mm **6010** - 6×10mm **4020** - 4×20mm **5020** - 5×20mm **6020** - 6×20mm **8020** - 8×20mm **4030** - 4×30mm **5030** - 5×30mm **6030** - 6×30mm **8030** - 8×30mm	W - Oblong flat

⑤ Material of suction cup	⑥ Slewing mode	⑦ Buffering stoke	⑧ Adapter specification
N-nitrile rubber S- silicone rubber F - fluorine rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	K - Non-slewing	**10** - 10mm **20** - 20mm **30** - 30mm **40** - 40mm **50** - 50mm	B5 - M5×0.8 female thread 04 - Plug-in joint for φ4mm hose 06 - Plug-in joint for φ6mm hose

MP2-W series

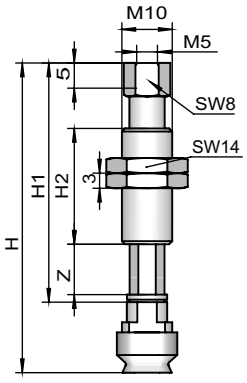
Traceless Static-proof

AMILA

Vacuum suction cup with buffer plunger (3.5×7mm~8×30mm)

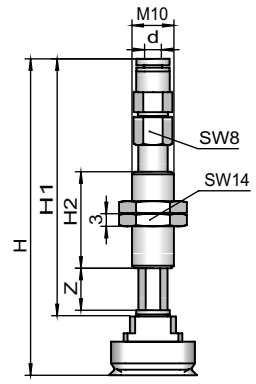
Design parameters of MP2-W vacuum suction cup with buffer plunger

MP2 T□W...-B5
Vertical and non-slewing



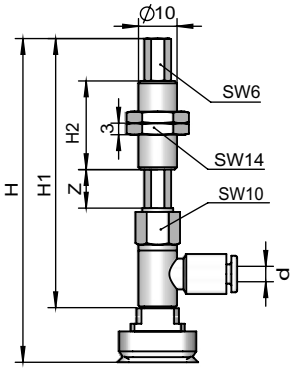
Model	Size(mm)						Applicable buffer plunger model
	H	H1	H2	Z	Travel	weight g	
MP2T□W□K10-B5	61.5	47.5	23	11.5	10	11.4	MPB2K10-B5
MP2T□W□K20-B5	99.5	85.5	51	21.5	20	17.4	MPB2K20-B5
MP2T□W□K30-B5	109.5	95.5	51	31.5	30	18.1	MPB2K30-B5
MP2T□W□K40-B5	145.5	131.5	77	41.5	40	23.7	MPB2K40-B5
MP2T□W□K50-B5	155.5	141.5	77	51.5	50	24.4	MPB2K50-B5

MP2 T□W...-04(06)
Vertical and non-slewing



Model	Size(mm)							Applicable buffer plunger model
	H	H1	H2	Z	d	Travel	weight g	
MP2T□W□K10-04	75.4	61.4	23	11.5	4	10	12.8	MPB2K10-04
MP2T□W□K20-04	85.4	99.4	51	21.5	4	20	18.8	MPB2K20-04
MP2T□W□K30-04	95.4	109.4	51	31.5	4	30	19.5	MPB2K30-04
MP2T□W□K40-04	105.4	145.4	77	41.5	4	40	25.2	MPB2K40-04
MP2T□W□K50-04	115.4	155.4	77	51.5	4	50	25.8	MPB2K50-04
MP2T□W□K10-06	75.4	62.2	23	11.5	6	10	13.3	MPB2K10-06
MP2T□W□K20-06	85.4	100.2	51	21.5	6	20	19.4	MPB2K20-06
MP2T□W□K30-06	95.4	110.2	51	31.5	6	30	20.1	MPB2K30-06
MP2T□W□K40-06	105.4	146.2	77	41.5	6	40	25.7	MPB2K40-06
MP2T□W□K50-06	115.4	156.2	77	51.5	6	50	26.4	MPB2K50-06

MP2 Y□W...-04(06)
Horizontally non-slewing



Model	Size(mm)							Applicable buffer plunger model
	H	H1	H2	Z	d	Travel	weight g	
MP2Y□W□K10-04	84	70	23	11.5	4	10	18.9	MPB2K-10
MP2Y□W□K20-04	122	124.4	51	21.5	4	20	25.7	MPB2K-20
MP2Y□W□K30-04	132	134.4	51	31.5	4	30	26.5	MPB2K-30
MP2Y□W□K40-04	168	170.4	77	41.5	4	40	32.8	MPB2K-40
MP2Y□W□K50-04	178	180.4	77	51.5	4	50	33.7	MPB2K-50
MP2Y□W□K10-06	84	87.2	23	11.5	6	10	20.0	MPB2K-10
MP2Y□W□K20-06	122	125.2	51	21.5	6	20	26.7	MPB2K-20
MP2Y□W□K30-06	132	135.2	51	31.5	6	30	27.6	MPB2K-30
MP2Y□W□K40-06	168	171.2	77	41.5	6	40	33.9	MPB2K-40
MP2Y□W□K50-06	178	181.2	77	51.5	6	50	34.7	MPB2K-50

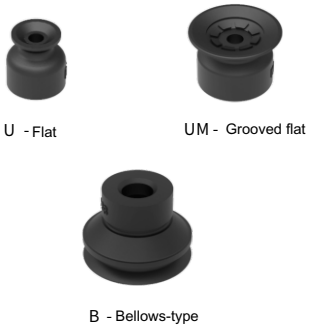
MP3 series

Small vacuum suction cup(φ1.5–φ16)

Traceless Static-proof

AMILA

3C product



U - Flat

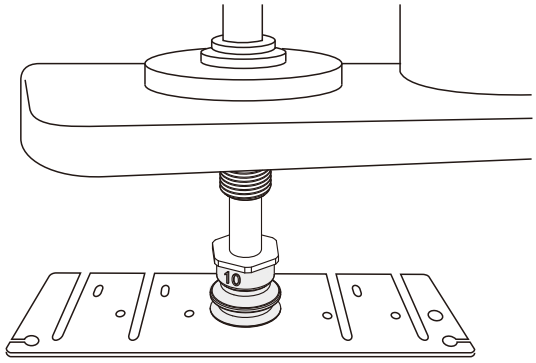
UM - Grooved flat

B - Bellows-type

Introduction

- Type U is suitable for even surfaces unlikely deforming
- Type UM is applicable to suctioning workpieces likely deforimg
- Type B is applicable to suctioning workpieces with sloping surfaces
- Applicable to handling small-sized lightweight workpieces

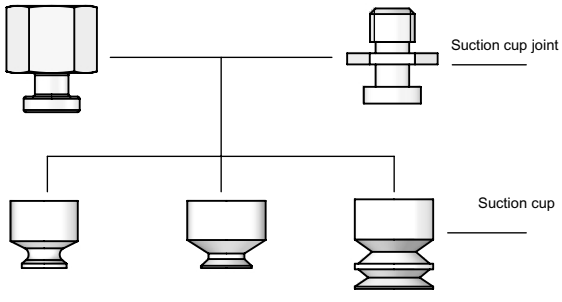
Application of the MP3 small vacuum suction cup



Application

- The special traceless static-proof material is applicable to the 3C product industry
- Suitable for the application in which the installation space is limited

System design of MP3 small vacuum suction cup



Structure

- With a split structure design, vulnerable elements can be easily replaced

MP3 series

Traceless Static-proof

Small vacuum suction cup(φ1.5–φ16)

AMILA

MP3 small vacuum suction cup purchase guide

MP3 - 04 UM N - A5

① ② ③ ④ ⑤

① Product series	② Size specification	③ Shape specification	④ Material of suction cup	⑤ Joint specification
MP3	015 - φ1.5mm 02 - φ2.0mm 035 - φ3.5mm 04 - φ4.0mm 06 - φ6.0mm 08 - φ8.0mm 10 - φ10mm 13 - φ13mm 16 - φ16mm	U - Flat UM - Grooved flat B - Bellows-type	N-nitrile rubber S- silicone rubber F - fluorine rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	Null - Bare suction cup A3 - M3×0.5 male thread A5 - M5×0.8 male thread B3 - M3×0.5 female thread B5 - M5×0.8 female thread

Model specifications of MP3 small vacuum suction cup

Model specification	Shape specification			Connection specification			
	U	UM	B	A3 (M3×0.5 male thread)	A5 (M5×0.8 male thread)	B3 (M3×0.5 female thread)	B5 (M5×0.8 female thread)
φ1.5	●	-	-	●	-	●	-
φ2.0	●	-	-	●	-	●	-
φ3.5	●	-	-	●	-	●	-
φ4.0	-	●	●	-	●	-	●
φ6.0	-	●	●	-	●	-	●
φ8.0	-	●	●	-	●	-	●
φ10	-	●	●	-	●	-	●
φ13	-	●	●	-	●	-	●
φ16	-	●	●	-	●	-	●

MP3 series

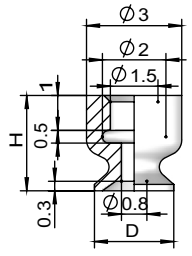
Traceless Static-proof

Small vacuum suction cup(φ1.5–φ16)

AMILA

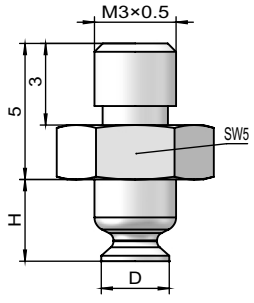
Model specifications of MP3 small vacuum suction cup

MP3-015 to 035 U



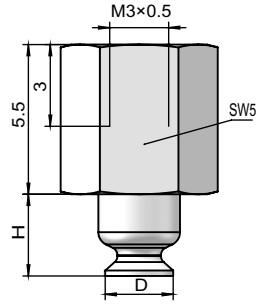
Model	(mm) D	H	weight g
MP3-015U□	2.0	3.0	0.1
MP3-02U□	2.5	3.0	0.1
MP3-035U□	4.0	3.0	0.1

MP3-015 to 035 U□-A3 (M3×0.5 male thread)



Model	(mm) D	H	weight g	Applicable joint model
MP3-015U□-A3	2.0	3.0	0.6	MP3A-T1-A3
MP3-02U□-A3	2.5	3.0	0.6	MP3A-T1-A3
MP3-035U□-A3	4.0	3.0	0.6	MP3A-T1-A3

MP3-015 to 035 U□-B3 (M3×0.5 female thread)



Model	(mm) D	H	weight g	Applicable joint model
MP3-015U□-B3	2.0	3.0	0.9	MP3A-T1-B3
MP3-02U□-B3	2.5	3.0	0.9	MP3A-T1-B3
MP3-035U□-B3	4.0	3.0	0.9	MP3A-T1-B3

MP3 series

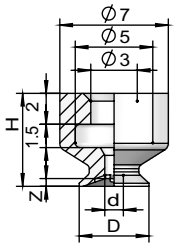
Traceless Static-proof

Small vacuum suction cup(φ1.5–φ16)

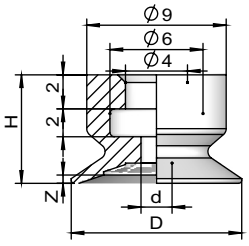
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Model specifications of MP3 small vacuum suction cup

MP3-04 to 08 UM

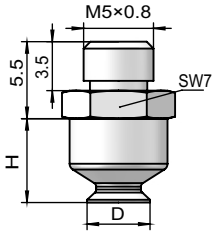


MP3-10 to 16 UM



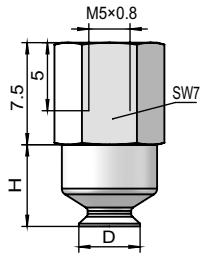
Model	(mm)				
	D	H	d	Z	weight g
MP3-04 UM☐	4.5	6	1.2	0.5	0.3
MP3-06 UM☐	6.5	6	2.0	0.8	0.3
MP3-08 UM☐	8.5	6	2.0	0.8	0.3
MP3-10 UM☐	11	7	2.0	1.0	0.6
MP3-13 UM☐	14	7	2.0	1.2	0.7
MP3-16 UM☐	17	7	2.0	1.2	0.8

MP3-04 to 16 UM ☐ -A5 (M3×0.8 male thread)



Model	(mm)			
	D	H	weight g	Applicable joint model
MP3-04UM☐-A5	4.5	6	1.7	MP3A-T2-A5
MP3-06UM☐-A5	6.5	6	1.7	MP3A-T2-A5
MP3-08UM☐-A5	8.5	6	1.7	MP3A-T2-A5
MP3-10UM☐-A5	11	7	3.0	MP3A-T3-A5
MP3-13UM☐-A5	14	7	3.1	MP3A-T3-A5
MP3-16UM☐-A5	17	7	3.2	MP3A-T3-A5

MP3-04 to 16 UM ☐ -B5(M5× 0.8 female thread)



Model	(mm)			
	D	H	weight g	Applicable joint model
MP3-04UM☐-B5	4.5	6	2.3	MP3A-T2-B5
MP3-06UM☐-B5	6.5	6	2.3	MP3A-T2-B5
MP3-08UM☐-B5	8.5	6	2.3	MP3A-T2-B5
MP3-10UM☐-B5	11	7	5.7	MP3A-T3-B5
MP3-13UM☐-B5	14	7	5.8	MP3A-T3-B5
MP3-16UM☐-B5	17	7	5.9	MP3A-T3-B5

MP3 series

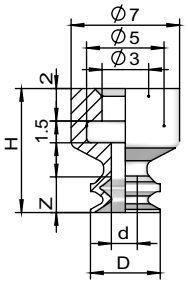
Traceless Static-proof

Small vacuum suction cup(φ1.5–φ16)

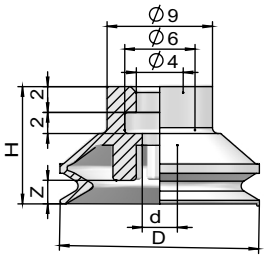
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Model specifications of MP3 small vacuum suction cup

MP3-04 to 08 B

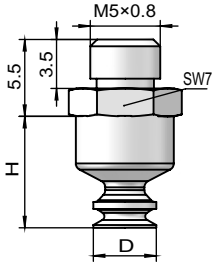


MP3-10 to 16 B



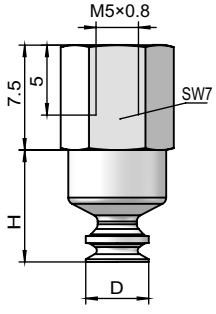
Model	(mm)				
	D	H	d	Z	weight g
MP3-04 B□	4.5	8	1.8	2.2	0.3
MP3-06 B□	7	8	2.0	3	0.3
MP3-08 B□	9	8	2.0	3	0.4
MP3-10 B□	11	10	2.0	2.0	0.8
MP3-13 B□	14	10	3.0	2.0	1.0
MP3-16 B□	17	10	3.0	2.0	1.1

MP3-04 to 16 B □ -A5 (M3×0.8 male thread)



Model	(mm)			
	D	H	weight g	Applicable joint model
MP3-04B□-A5	4.5	8	1.7	MP3A-T2-A5
MP3-06B□-A5	7	8	1.7	MP3A-T2-A5
MP3-08B□-A5	9	8	1.8	MP3A-T2-A5
MP3-10B□-A5	11	10	3.2	MP3A-T3-A5
MP3-13B□-A5	14	10	3.4	MP3A-T3-A5
MP3-16B□-A5	17	10	3.5	MP3A-T3-A5

MP3-04 to 16 B □ -B5 (M5×0.8 female thread)



Model	(mm)			
	D	H	weight g	Applicable joint model
MP3-04B□-B5	4.5	8	2.3	MP3A-T2-B5
MP3-06B□-B5	7	8	2.3	MP3A-T2-B5
MP3-08B□-B5	9	8	2.4	MP3A-T2-B5
MP3-10B□-B5	11	10	5.9	MP3A-T3-B5
MP3-13B□-B5	14	10	6.1	MP3A-T3-B5
MP3-16B□-B5	17	10	6.2	MP3A-T3-B5

MP3 series

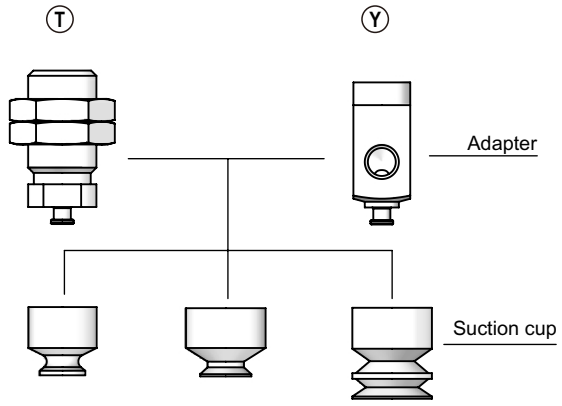
Traceless Static-proof

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Adapter-equipped small vacuum suction cup (φ1.5–φ16)

3C product

System design of MP3 adapter-equipped small vacuum suction cup



Structure

- The product consistes of a replaceable suction cup and an adapter
- The suction cup is equipped with a plug-in joint in the connecting position
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed through female thread

Purchase guide of MP3 adapter-equipped small vacuum suction cup

MP3 - T 015 U N - A6B3

① ② ③ ④ ⑤ ⑥

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification	⑤ Material of suction cup	⑥ Adapter specification
MP3	T - Vertical Y - Horizontal	015 - φ1.5mm 02 - φ2.0mm 035 - φ3.5mm 04 - φ4.0mm 06 - φ6.0mm 08 - φ8.0mm 10 - φ10mm 13 - φ13mm 16 - φ16mm	U - Flat UM - Grooved flat B - Bellows-type	N-nitrile rubber S- silicone rubber F - fluorine rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	A6B3—fitted to M6×0.75 male thread Vacuum port with M3×0.5 female thread B3B3—fitted to M3×0.5 female thread Vacuum port with M3×0.5 female thread A10B5—fitted to M10×1 male thread Vacuum port with M5×0.8 female thread A12B5—fitted to M12×1 male thread Vacuum port with M5×0.8 female thread B5B5—fitted to M5×0.8 female thread Vacuum port with M5×0.8 female thread

MP3 series

Traceless Static-proof

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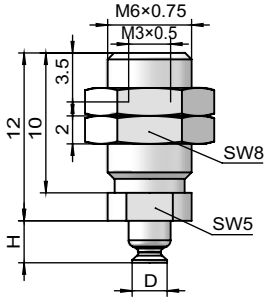
Adapter-equipped small vacuum suction cup (φ1.5–φ16)

Model specifications of MP3 adapter-equipped small vacuum suction cup

Model specification	Shape specification			T - Vertical			Y - Horizontal	
	U	UM	B	A6B3 fitted to M6×0.75 male thread Vacuum port with M3×0.5 female thread	A10B5 fitted to M10×1 male thread Vacuum port with M5×0.8 female thread	A12B5 fitted to M12×1 male thread Vacuum port with M5×0.8 female thread	B3B3 fitted to M3×0.5 female thread Vacuum port with M3×0.5 female thread	B5B5 fitted to M5×0.8 female thread Vacuum port with M5×0.8 female thread
φ1.5	●	-	-	●	-	-	●	-
φ2.0	●	-	-	●	-	-	●	-
φ3.5	●	-	-	●	-	-	●	-
φ4.0	-	●	●	-	●	-	-	●
φ6.0	-	●	●	-	●	-	-	●
φ8.0	-	●	●	-	●	-	-	●
φ10	-	●	●	-	-	●	-	●
φ13	-	●	●	-	-	●	-	●
φ16	-	●	●	-	-	●	-	●

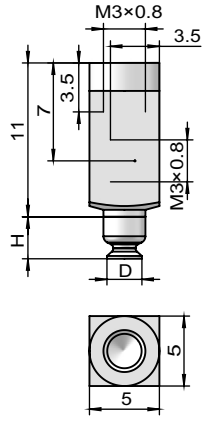
Design parameters of MP3 adapter-equipped small vacuum suction cup

MP3-015 to 035 U □-A6-B3
Vertically-mounted
fitted to M6×0.75 male thread
Vacuum port with M3×0.5 female thread



Model	(mm) D	H	weight g	Applicable adapter model
MP3-T015U □ -A6-B3	2.0	3.0	2.8	MP3A-T1-A6-B3
MP3-T02U □ -A6-B3	2.5	3.0	2.8	MP3A-T1-A6-B3
MP3-T035U □ -A6-B3	4.0	3.0	2.8	MP3A-T1-A6-B3

MP3-015 to 035 U □-B3-B3
Horizontally-mounted
fitted to M3×0.5 female thread
Vacuum port with M3×0.5 female thread



Model	(mm) D	H	weight g	Applicable adapter model
MP3-Y015U □ -B3-B3	2.0	3.0	1.9	MP3A-Y1-B3-B3
MP3-Y02U □ -B3-B3	2.5	3.0	1.9	MP3A-Y1-B3-B3
MP3-Y035U □ -B3-B3	4.0	3.0	1.9	MP3A-Y1-B3-B3

MP3 series

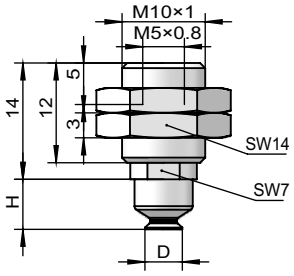
Traceless Static-proof

AMILA

Adapter-equipped small vacuum suction cup (φ1.5–φ16)

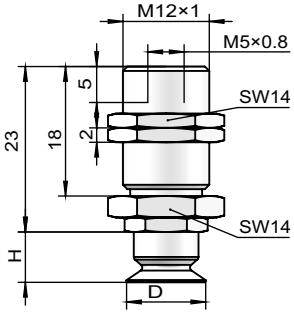
Design parameters of MP3 adapter-equipped small vacuum suction cup

MP3-04 to 08 UM □ -A10-B5
Vertically-mounted
fitted to M10×1 male thread
Vacuum port with M5×0.8 female thread



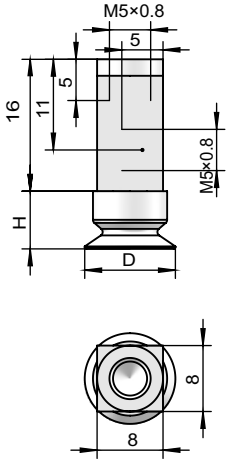
Model	(mm)			Applicable
	D	H	weight g	adapter model
MP3-T04UM □ -A10-B5	4.5	6.0	11	MP3A-T2-A10-B5
MP3-T06UM □ -A10-B5	6.5	6.0	11	MP3A-T2-A10-B5
MP3-T08UM □ -A10-B5	8.5	6.0	11	MP3A-T2-A10-B5

MP3-10 to 16 UM □ -A12-B5
Vertically-mounted
fitted to M12×1 male thread
Vacuum port with M5×0.8 female thread



Model	(mm)			Applicable
	D	H	weight g	adapter model
MP3-T10UM □ -A12-B5	11	7.0	18.8	MP3A-T3-A12-B5
MP3-T13UM □ -A12-B5	14	7.0	18.9	MP3A-T3-A12-B5
MP3-T16UM □ -A12-B5	17	7.0	19	MP3A-T3-A12-B5

MP3-04 to 16 UM □ -B5-B5
Horizontally-mounted
fitted to M5×0.8 female thread
Vacuum port with M5×0.8 female thread



Model	(mm)			Applicable
	D	H	weight g	adapter model
MP3-Y04UM □ -B5-B5	4.5	6.0	7.0	MP3A-Y2-B5-B5
MP3-Y06UM □ -B5-B5	6.5	6.0	7.0	MP3A-Y2-B5-B5
MP3-Y08UM □ -B5-B5	8.5	6.0	7.0	MP3A-Y2-B5-B5
MP3-Y10UM □ -B5-B5	11	7.0	7.7	MP3A-Y3-B5-B5
MP3-Y13UM □ -B5-B5	14	7.0	7.8	MP3A-Y3-B5-B5
MP3-Y16UM □ -B5-B5	17	7.0	7.9	MP3A-Y3-B5-B5

MP3 series

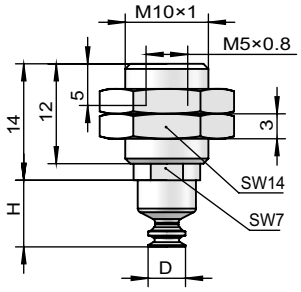
Traceless Static-proof

AMILA

Adapter-equipped small vacuum suction cup (φ1.5–φ16)

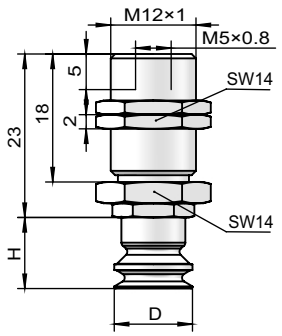
Design parameters of MP3 adapter-equipped small vacuum suction cup

MP3-04 to 08 B ☐ -A10-B5
Vertically-mounted
fitted to M10×1 male thread
Vacuum port with M5×0.8 female thread



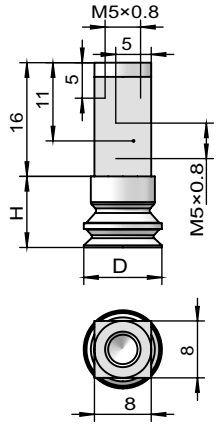
Model	(mm)			Applicable
	D	H	weight g	adapter model
MP3-T04B ☐ -A10-B5	4.5	8.0	11	MP3A-T2-A10-B5
MP3-T06B ☐ -A10-B5	7	8.0	11	MP3A-T2-A10-B5
MP3-T08B ☐ -A10-B5	9	8.0	11.1	MP3A-T2-A10-B5

MP3-10 to 16 B ☐ -A12-B5
Vertically-mounted
fitted to M12×1 male thread
Vacuum port with M5×0.8 female thread



Model	(mm)			Applicable
	D	H	weight g	adapter model
MP3-T10B ☐ -A12-B5	11	10	19	MP3A-T3-A12-B5
MP3-T13B ☐ -A12-B5	14	10	19.2	MP3A-T3-A12-B5
MP3-T16B ☐ -A12-B5	17	10	19.3	MP3A-T3-A12-B5

MP3-04 to 16 B ☐ -B5-B5
Horizontally-mounted
fitted to M5×0.8 female thread
Vacuum port with M5×0.8 female thread



Model	(mm)			Applicable
	D	H	weight g	adapter model
MP3-Y04B ☐ -B5-B5	4.5	8.0	7.0	MP3A-Y2-B5-B5
MP3-Y06B ☐ -B5-B5	7	8.0	7.0	MP3A-Y2-B5-B5
MP3-Y08B ☐ -B5-B5	9	8.0	7.1	MP3A-Y2-B5-B5
MP3-Y10B ☐ -B5-B5	11	10	7.9	MP3A-Y3-B5-B5
MP3-Y13B ☐ -B5-B5	14	10	8.1	MP3A-Y3-B5-B5
MP3-Y16B ☐ -B5-B5	17	10	8.2	MP3A-Y3-B5-B5

MP3 series

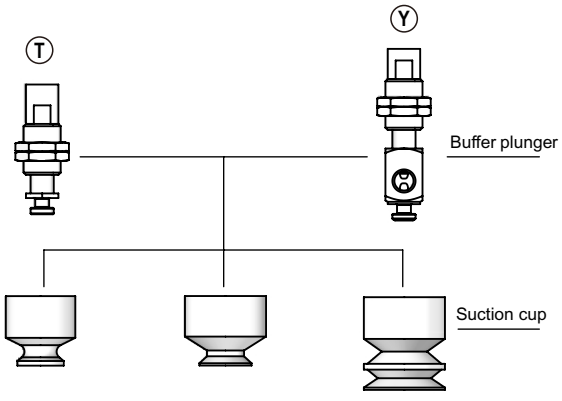
Traceless Static-proof

AMILA

Small vacuum suction cup with buffer plunger (φ1.5–φ16)

3C product

System design of MP3 small vacuum suction cup with buffer plunger



Structure

- The product consists of a replaceable suction cup and a buffer plunger
- The suction cup is equipped with a plug-in joint in the connecting position
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed with a male threaded nut

Guide to purchase of the MP3 vacuum suction cup with buffer plunger

MP3 - T 015 U N - J 6 - B3

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification
MP3	**T** - Vertical **Y** - Horizontal	**015** - φ1.5mm **02** - φ2.0mm **035** - φ3.5mm **04** - φ4.0mm **06** - φ6.0mm **08** - φ8.0mm **10** - φ10mm **13** - φ13mm **16** - φ16mm	U - Flat UM - Grooved flat B - Bellows-type

⑤ Material of suction cup	⑥ Slewing mode	⑦ Buffering travel	⑧ Adapter specification
N-nitrile rubber S- silicone rubber F - fluorine rubber GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9) GS - static-proof silicone rubber (Static resistance index: 10^5–10^9) GHN - traceless conductive nitrile rubber (Static resistance index: 10^5–10^9)	J - Slewing K - Non-slewing JB - Slewing, bushing-equipped	**3** - 3mm **6** - 6mm **10** - 10mm **15** - 15mm **20** - 20mm	B3 - M3×0.5 female thread B5 - M5×0.8 female thread

MP3 series

Traceless Static-proof

AMILA

Small vacuum suction cup with buffer plunger (φ1.5–φ16)

Model specifications of MP3 small vacuum suction cup with buffer plunger

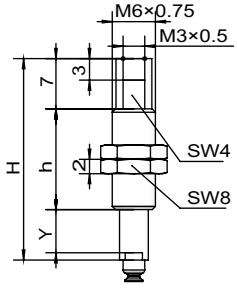
Model specification	Shape specification			Vacuum port direction		Slewing mode			Buffering stoke	Vacuum port specification
	U	UM	B	T- Vertical	Y- Horizontal	J (Slewing) Buffering stoke 3 6 10	K (Non-slewing) Buffering stoke 3 6 10 15 20	JB (Slewing, bushing-equipped) Buffering stoke 15 20		
φ1.5	●	-	-	●	●	●	●	-	3 6	M3×0.5 female thread
φ2.0	●	-	-	●	●	●	●	-	3 6	M3×0.5 female thread
φ3.5	●	-	-	●	●	●	●	-	3 6	M3×0.5 female thread
φ4.0	-	●	●	●	●	●	●	●	3 6 10 15 20	M5×0.8 female thread
φ6.0	-	●	●	●	●	●	●	●	3 6 10 15 20	M5×0.8 female thread
φ8.0	-	●	●	●	●	●	●	●	3 6 10 15 20	M5×0.8 female thread
φ10	-	●	●	●	●	●	●	●	3 6 10 15 20	M5×0.8 female thread
φ13	-	●	●	●	●	●	●	●	3 6 10 15 20	M5×0.8 female thread
φ16	-	●	●	●	●	●	●	●	3 6 10 15 20	M5×0.8 female thread

Design parameters of MP3 small vacuum suction cup with buffer plunger

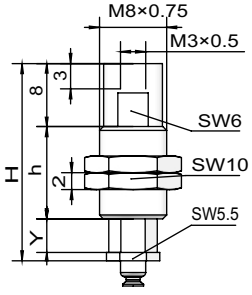
Size specification (mm)—Type-U suction cup

MP3-015 to 035 U...

Vertical and slewing



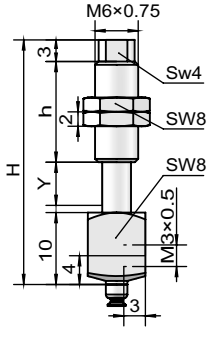
Vertical and non-slewing



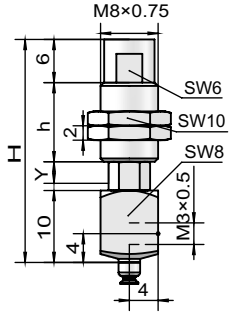
Model	(mm) H	h	Y	weight g	Applicable adapter model
MP3-T □U□ -J3-B3	21	10	3	3.4	MP3B-T1-J3-B3
MP3-T □U□ -J6-B3	28	14	6	4.4	MP3B-T1-J6-B3
MP3-T □U□ -K3-B3	23.5	11	3	6.8	MP3B-T1-K3-B3
MP3-T □U□ -K6-B3	30	14.5	6	8.2	MP3B-T1-K6-B3

MP3-015 to 035 U...

Horizontally slewing



Horizontally non-slewing



Model	(mm) H	h	Y	weight g	Applicable adapter model
MP3-Y □U□ -J3-B3	27	10	3	7.7	MP3B-Y1-J3-B3
MP3-Y □U□ -J6-B3	34	14	6	8.6	MP3B-Y1-J6-B3
MP3-Y □U□ -K3-B3	31	11	3	11.0	MP3B-Y1-K3-B3
MP3-Y □U□ -K6-B3	37.5	14.5	6	12.2	MP3B-Y1-K6-B3

MP3 series

Traceless Static-proof

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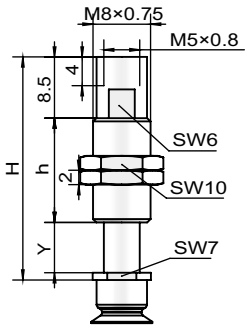
Small vacuum suction cup with buffer plunger (φ1.5–φ16)

Design parameters of MP3 small vacuum suction cup with buffer plunger

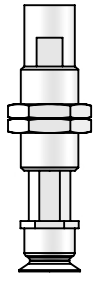
Size specification (mm)—Type-UM suction cup

MP3-04 to 16 UM...

Vertical and slewing



Vertical and non-slewing

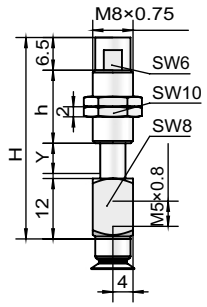


Model	(mm)				Applicable adapter model
	H	h	Y	weight g	
MP3-T □UM□ -J3-B5	24.5	11	3	7.4	MP3B-T2A(2B)-J3-B5
MP3-T □UM□ -J6-B5	31	14.5	6	8.6	MP3B-T2A(2B)-J6-B5
MP3-T □UM□ -J10-B5	41	20.5	10	10.5	MP3B-T2A(2B)-J10-B5
MP3-T □UM□ -K3-B5	24.5	11	3	7.3	MP3B-T2A(2B)-K3-B5
MP3-T □UM□ -K6-B5	31	14.5	6	8.6	MP3B-T2A(2B)-K6-B5
MP3-T □UM□ -K10-B5	41	20.5	10	10.5	MP3B-T2A(2B)-K10-B5

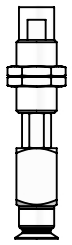
Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3-04 to 16 UM...

Horizontally slewing



Horizontally non-slewing

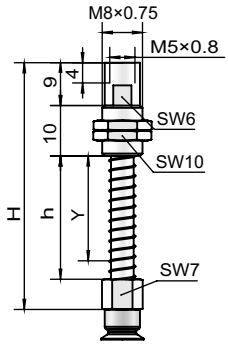


Model	(mm)				Applicable adapter model
	H	h	Y	weight g	
MP3-Y □UM□ -J3-B5	33	11	3	12.8	MP3B-Y2A(2B)-J3-B5
MP3-Y □UM□ -J6-B5	39.5	14.5	6	14.2	MP3B-Y2A(2B)J6-B5
MP3-Y □UM□ -J10-B5	49.5	20.5	10	16.6	MP3B-Y2A(2B)-J10-B5
MP3-Y □UM□ -K3-B5	33	11	3	12.2	MP3B-Y2A(2B)-K3-B5
MP3-Y □UM□ -K6-B5	39.5	14.5	6	13.4	MP3B-Y2A(2B)-K6-B5
MP3-Y □UM□ -K10-B5	49.5	20.5	10	15.4	MP3B-Y2A(2B)-K10-B5

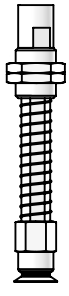
Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3-04 to 16 UM...

Vertical and slewing



Vertical and non-slewing



Model	(mm)				Applicable adapter model
	H	h		weight g	
MP3-T □UM□ -JB15-B5	49	24.5	15	10.3	MP3B-T2A(2B)-JB15-B5
MP3-T □UM□ -JB20-B5	56.5	32	20	10.9	MP3B-T2A(2B)-JB20-B5
MP3-T □UM□ -K15-B5	49	24.5	15	12.3	MP3B-T2A(2B)-K15-B5
MP3-T □UM□ -K20-B5	56.5	32	20	13.4	MP3B-T2A(2B)-K20-B5

Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3 series

Traceless Static-proof

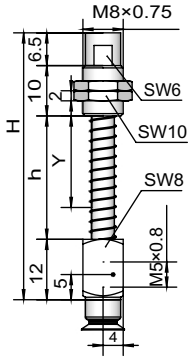
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Small vacuum suction cup with buffer plunger (φ1.5–φ16)

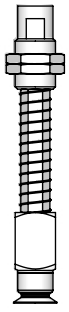
Design parameters of MP3 small vacuum suction cup with buffer plunger

MP3-04 to 16 UM...

Horizontally slewing



Horizontally non-slewing



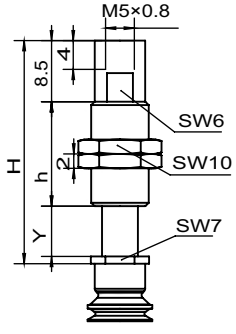
Model	(mm) H	Y	weight g	Applicable adapter model
MP3-Y □UM□ -JB15-B5	52.5	15	16.3	MP3B-Y2A(2B)-JB15-B5
MP3-Y □UM□ -JB20-B5	60	20	15.1	MP3B-Y2A(2B)-JB20-B5
MP3-Y □UM□ -K15-B5	52.5	15	15.5	MP3B-Y2A(2B)-K15-B5
MP3-Y □UM□ -K20-B5	60	20	16.6	MP3B-Y2A(2B)-K20-B5

Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

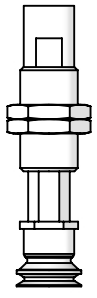
Size specification (mm)—Type-B suction cup

MP3-04 to 16 B ...

Vertical and slewing



Vertical and non-slewing

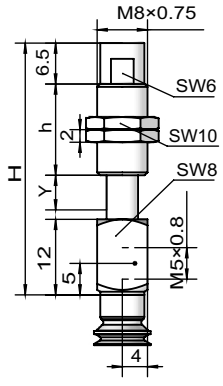


Model	(mm) H	h	Y	weight g	Applicable adapter model
MP3-T □B□ -J3-B5	24.5	11	3	7.4	MP3B-T2A(2B)-J3-B5
MP3-T □B□ -J6-B5	31	14.5	6	8.6	MP3B-T2A(2B)-J6-B5
MP3-T □B□ -J10-B5	41	20.5	10	10.5	MP3B-T2A(2B)-J10-B5
MP3-T □B□ -K3-B5	24.5	11	3	7.3	MP3B-T2A(2B)-K3-B5
MP3-T □B□ -K6-B5	31	14.5	6	8.6	MP3B-T2A(2B)-K6-B5
MP3-T □B□ -K10-B5	41	20.5	10	10.5	MP3B-T2A(2B)-K10-B5

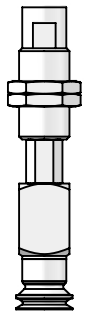
Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3-04 to 16 B...

Horizontally slewing



Horizontally non-slewing



Model	(mm) H	h	Y	weight g	Applicable adapter model
MP3-Y □B□ -J3-B5	34	11	3	12.8	MP3B-Y2A(2B)-J3-B5
MP3-Y □B□ -J6-B5	40	14.5	6	14.2	MP3B-Y2A(2B)J6-B5
MP3-Y □B□ -J10-B5	50	20.5	10	16.6	MP3B-Y2A(2B)-J10-B5
MP3-Y □B□ -K3-B5	34	11	3	12.2	MP3B-Y2A(2B)-K3-B5
MP3-Y □B□ -K6-B5	40	14.5	6	13.4	MP3B-Y2A(2B)-K6-B5
MP3-Y □B□ -K10-B5	50	20.5	10	15.4	MP3B-Y2A(2B)-K10-B5

Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3 series

Traceless Static-proof

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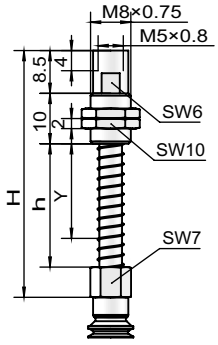
Small vacuum suction cup with buffer plunger (φ1.5–φ16)

Design parameters of MP3 small vacuum suction cup with buffer plunger

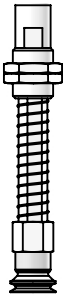
Size specification (mm)—Type-B suction cup

MP3-04 to 16 B...

Vertical and slewing



Vertical and non-slewing

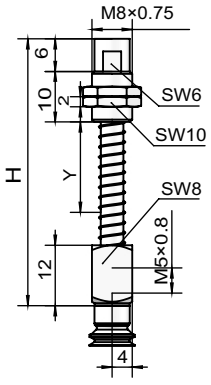


Model	(mm)				Applicable adapter model
	H	h	Y	weight g	
MP3-T □B□ -JB15-B5	49	24.5	15	10.3	MP3B-T2A(2B)-JB15-B5
MP3-T □B□ -JB20-B5	56.5	32	20	10.9	MP3B-T2A(2B)-JB20-B5
MP3-T □B□ -K15-B5	49	24.5	15	12.3	MP3B-T2A(2B)-K15-B5
MP3-T □B□ -K20-B5	56.5	32	20	13.4	MP3B-T2A(2B)-K20-B5

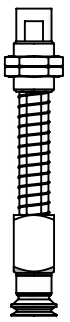
Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3-04 to 16 B...

Horizontally slewing



Horizontally non-slewing



Model	(mm)			Applicable adapter model
	H	Y	weight g	
MP3-Y □B□ -JB15-B5	52.5	15	14.3	MP3B-Y2A(2B)-JB15-B5
MP3-Y □B□ -JB20-B5	60	20	15.1	MP3B-Y2A(2B)-JB20-B5
MP3-Y □B□ -K15-B5	52.5	15	15.5	MP3B-Y2A(2B)-K15-B5
MP3-Y □B□ -K20-B5	60	20	16.6	MP3B-Y2A(2B)-K20-B5

Note: 2A represents suction cup 04 to 08 and 2B suction cup 10 to 16

MP3E series

Vacuum suction cup (φ32–φ125)

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General-purpose



UM - Grooved flat

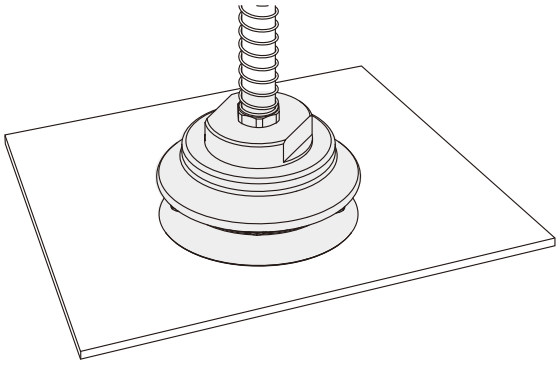


BM - Grooved bellows–type

Introduction

- The concave and convex suction surface design increases the workpiece contact area as well as the suction stability
- Applicable to handling heavy workpieces
- With a split structure design, fittings can be easily replaced, low use cost

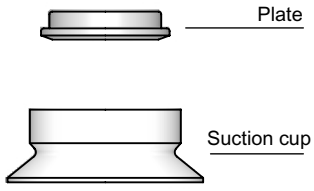
Application of the MP3E vacuum suction cup



Application

- Handle of large workpieces with even or slightly rough surfaces, such as wood boards, steel plates, heavy workpieces, etc.

System design of MP3E vacuum suction cup



Structure

- With a split structure design, vulnerable elements can be easily replaced

MP3E series

Vacuum suction cup (φ32–φ125)

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MP3E vacuum suction cup purchase guide

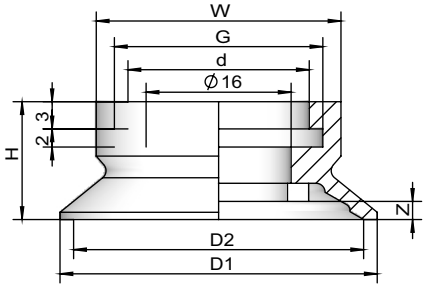
MP3E - 32 UM N - P

① ② ③ ④ ⑤

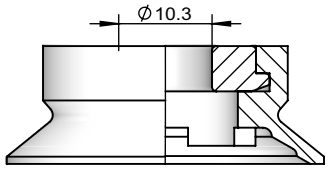
① Product series	② Size specification	③ Shape specification	④ Material of suction cup	⑤ Plate
MP3E	**32** - φ32mm	UM - Grooved flat	N - nitrile rubber	Null - No plate (bare suction cup)
	40 - φ40mm	BM - Grooved bellows–type	S - silicone rubber	P - Plate-equipped
	50 - φ50mm			
	63 - φ63mm			
	80 - φ80mm			
	100 - φ100mm			
	125 - φ125mm			

Design parameters of MP3E vacuum suction cup

MP3E-32 to 50 UM □



MP3E-32 to 50 UM □-P



Model	Size(mm)						
	D1	**D2**	**d**	**H**	**W**	**G**	**Z**
MP3E-32UM □	35	32	20	13	27	23	2
MP3E-32UM □-P	35	32	20	13	27	23	2
MP3E-40UM □	43	40	20	13	27	23	2.5
MP3E-40UM □-P	43	40	20	13	27	23	2.5
MP3E-50UM □	53	50	27	13.5	36	31	3
MP3E-50UM □-P	53	50	27	13.5	36	31	3

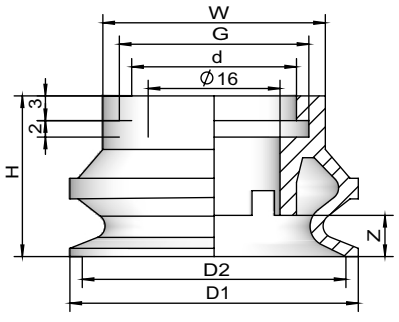
MP3E series

Vacuum suction cup (φ32–φ125)

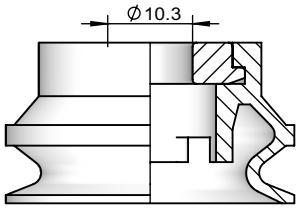
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Design parameters of MP3E vacuum suction cup

MP3E-32 to 50 BM □

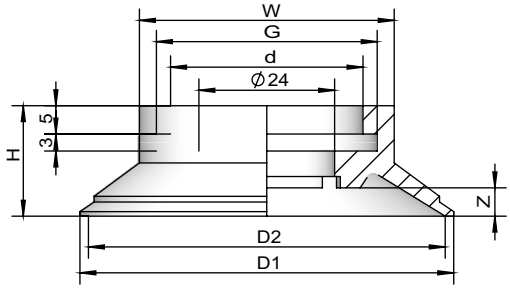


MP3E-32 to 50 BM □-P

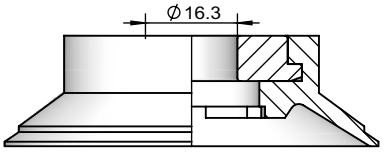


Model	Size(mm)						
	D1	D2	d	H	W	G	Z
MP3E-32BM □	35	32	20	19.5	27	23	5
MP3E-32BM □-P	35	32	20	19.5	27	23	5
MP3E-40BM □	44	40	20	21.5	27	23	7
MP3E-40BM □-P	44	40	20	21.5	27	23	7
MP3E-50BM □	54	50	27	25	36	31	10
MP3E-50BM □-P	54	50	27	25	36	31	10

MP3E-63 to 125 UM □



MP3E-63 to 125 UM □-P



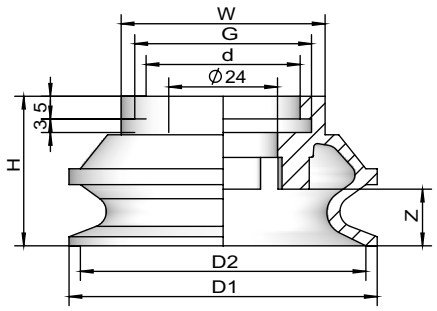
Model	Size(mm)						
	D1	D2	d	H	W	G	Z
MP3E-63UM □	66	63	34	19.5	45	39	5
MP3E-63UM □-P	66	63	34	19.5	45	39	5
MP3E-80UM □	83	80	34	19.5	45	39	5
MP3E-80UM □-P	83	80	34	19.5	45	39	5
MP3E-100UM □	103	100	43	22	56	49.5	7
MP3E-100UM □-P	103	100	43	22	56	49.5	7
MP3E-125UM □	128	125	58	22	73	65	7
MP3E-125UM □-P	128	125	58	22	73	65	7

MP3E series

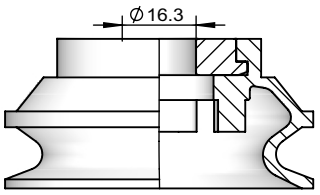
Vacuum suction cup (φ32–φ125)

Design parameters of MP3E vacuum suction cup

MP3E-63 to 125 BM ☐



MP3E-63 to 125 BM ☐-P



Model	Size(mm)						
	D1	D2	d	H	W	G	Z
MP3E-63BM ☐	68	63	34	33	45	39	12.5
MP3E-63BM ☐-P	68	63	34	33	45	39	12.5
MP3E-80BM ☐	85	80	43	41	56	49.5	18
MP3E-80BM ☐-P	85	80	43	41	56	49.5	18
MP3E-100BM ☐	106	100	58	50.5	73	65	22
MP3E-100BM ☐-P	106	100	58	50.5	73	65	22
MP3E-125BM ☐	133	125	71	60	88	80	25
MP3E-125BM ☐-P	133	125	71	60	88	80	25

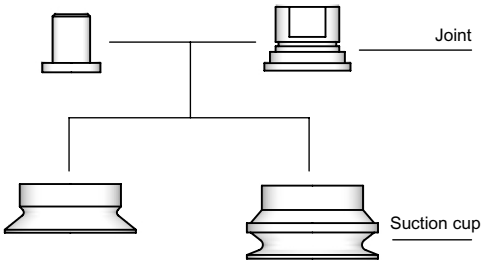
MP3E series

Vacuum suction cup (φ32–φ125)

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General-purpose

System design of MP3E vacuum suction cup



Structure

◆ With a split structure design, vulnerable elements can be easily replaced

MP3E vacuum suction cup purchase guide

MP3E - T 32 UM N - A10

① ② ③ ④ ⑤ ⑥

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification	⑤ Material of suction cup	⑥ Joint specification
MP3E	**T** - Vertical **Y** - Horizontal	**32** - φ32mm **40** - φ40mm **50** - φ50mm **63** - φ63mm **80** - φ80mm **100** - φ100mm **125** - φ125mm	UM - Grooved flat BM - Grooved bellows–type	N - nitrile rubber S - silicone rubber	A10 - fitted to M10×1 male thread AG1 - Fitted to G1/8 male thread A16 - fitted to M16×1.5 male thread B8 - fitted to M8×1.25 female thread B10 - fitted to M10×1.5 female thread B12 - fitted to M12×1.75 female thread B18 - fitted to M18×1.5 female thread

MP3E series

Vacuum suction cup (φ32–φ125)

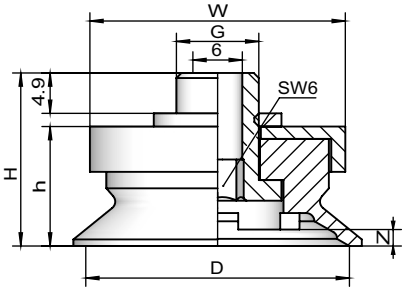
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Model specifications of MP3E vacuum suction cup

Model specification	Shape specification		Connection specification						
	UM	BM	A10 fitted to M10×1 male thread	AG1 Fitted to G1/8 male thread	A16 fitted to M16×1.5 male thread	B8 fitted to M8×1.25 female thread	B10 fitted to M10×1.5 female thread	B12 fitted to M12×1.75 female thread	B18 fitted to M18×1.5 female thread
ϕ32	●	●	●	●	-	●	●	-	-
ϕ40	●	●	●	●	-	●	●	-	-
ϕ50	●	●	●	●	-	●	●	-	-
ϕ63	●	●	-	-	●	-	-	●	●
ϕ80	●	●	-	-	●	-	-	●	●
ϕ100	●	●	-	-	●	-	-	●	●
ϕ125	●	●	-	-	●	-	-	●	●

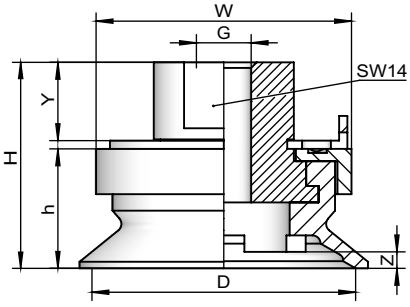
Design parameters of MP3E vacuum suction cup

MP3E-T 32 to 50 UM...



Model	Size (mm)					
	D	H	h	W	Z	G
MP3E-T32UM ☐-A10	32	21	14.5	31	2	M10×1
MP3E-T32UM ☐-AG1	32	21	14.5	31	2	G 1/8
MP3E-T40UM ☐-A10	40	21	14.5	31	2.5	M10×1
MP3E-T40UM ☐-AG1	40	21	14.5	31	2.5	G 1/8
MP3E-T50UM ☐-A10	50	21.5	15	40	3	M10×1
MP3E-T50UM ☐-AG1	50	21.5	15	40	3	G 1/8

MP3E-T 32 to 50 UM...



Model	Size (mm)						
	D	H	h	Y	W	Z	G
MP3E-T32UM ☐-B8	32	25	14.5	9.5	31	2	M8×1.25
MP3E-T32UM ☐-B10	32	25	14.5	13	31	2	M10×1.5
MP3E-T40UM ☐-B8	40	25	14.5	9.5	31	2.5	M8×1.25
MP3E-T40UM ☐-B10	40	25	14.5	13	31	2.5	M10×1.5
MP3E-T50UM ☐-B8	50	25.5	15	9.5	40	3	M8×1.25
MP3E-T50UM ☐-B10	50	15.5	15	13	40	3	M10×1.5

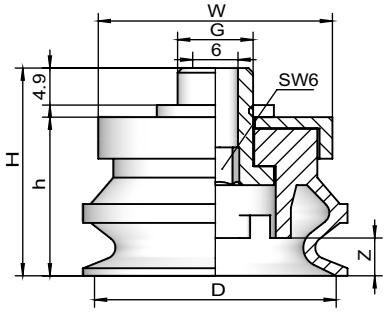
MP3E series

Vacuum suction cup (φ32–φ125)

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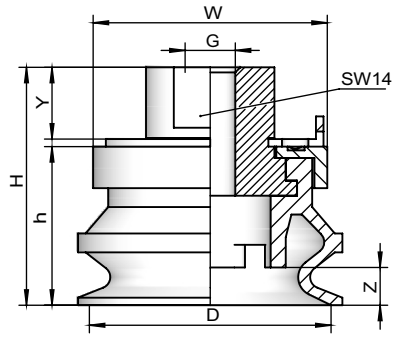
Design parameters of MP3E vacuum suction cup

MP3E-T 32 to 50 BM ...



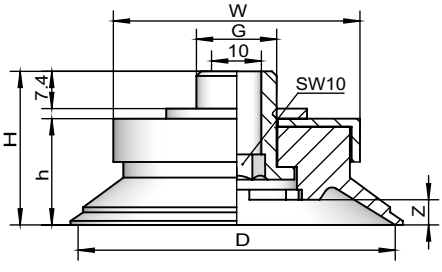
Model	Size (mm)					
	D	H	h	W	Z	G
MP3E-T32BM □-A10	32	27.5	21	31	5	M10×1
MP3E-T32BM □-AG1	32	27.5	21	31	5	G 1/8
MP3E-T40BM □-A10	40	29.5	23	31	7	M10×1
MP3E-T40BM □-AG1	40	29.5	23	31	7	G 1/8
MP3E-T50BM □-A10	50	33	26.5	40	10	M10×1
MP3E-T50BM □-AG1	50	33	26.5	40	10	G 1/8

MP3E-T 32 to 50 BM ...



Model	Size (mm)						
	D	H	h	Y	W	Z	G
MP3E-T32BM □-B8	32	31.5	21	9.5	31	5	M8×1.25
MP3E-T32BM □-B10	32	31.5	21	13	31	5	M10×1.5
MP3E-T40BM □-B8	40	33.5	23	9.5	31	7	M8×1.25
MP3E-T40BM □-B10	40	33.5	23	13	31	7	M10×1.5
MP3E-T50BM □-B8	50	37	26.5	9.5	40	10	M8×1.25
MP3E-T50BM □-B10	50	37	26.5	13	40	10	M10×1.5

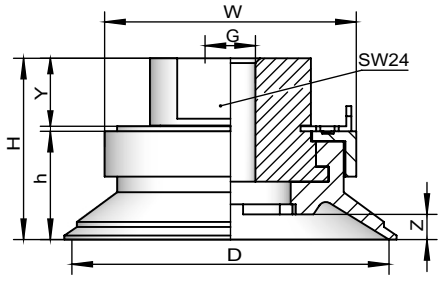
MP3E-T 63 to 125 UM □-A16



Model	Size (mm)					
	D	H	h	W	Z	G
MP3E-T63UM □-A16	63	30.5	21	49	5	M16×1.5
MP3E-T80UM □-A16	80	30.5	21	49	5	M16×1.5
MP3E-T100UM □-A16	100	33	23.6	60	7	M16×1.5
MP3E-T125UM □-A16	125	33	23.6	77.8	7	M16×1.5

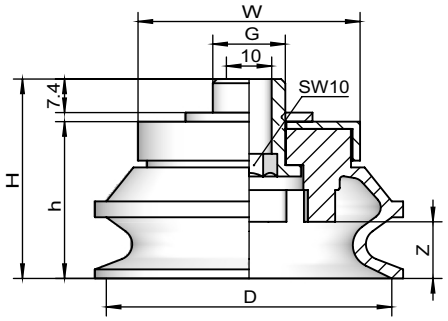
Design parameters of MP3E vacuum suction cup

MP3E-T 63 to 125 UM...



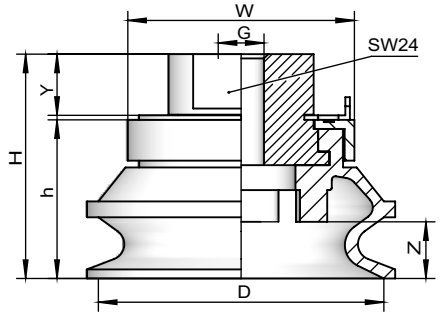
Model	Size (mm)						
	D	H	h	Y	W	Z	G
MP3E-T63UM□-B12	63	36	21.5	12	50	5	M12×1.75
MP3E-T63UM□-B18	63	36	21.5	12	50	5	M18×1.5
MP3E-T80UM□-B12	80	36	21.5	12	50	5	M12×1.75
MP3E-T80UM□-B18	80	36	21.5	12	50	5	M18×1.5
MP3E-T100UM□-B12	100	38.5	24	18	61	7	M12×1.75
MP3E-T100UM□-B18	100	38.5	24	18	61	7	M18×1.5
MP3E-T125UM□-B12	125	38.5	24	18	78.6	7	M12×1.75
MP3E-T125UM□-B18	125	38.5	24	18	78.6	7	M18×1.5

MP3E-T 63 to 125 BM□-A16



Model	Size (mm)					
	D	H	h	W	Z	G
MP3E-T63BM□-A16	63	44	34.6	49	12.5	M16×1.5
MP3E-T80BM□-A16	80	52	42.6	60	18	M16×1.5
MP3E-T100BM□-A16	100	61.5	52	77.8	22	M16×1.5
MP3E-T125BM□-A16	125	71	61.6	93	25	M16×1.5

MP3E-T 63 to 125 BM...



Model	Size (mm)						
	D	H	h	Y	W	Z	G
MP3E-T63BM□-B12	63	49.5	35	12	50	12.5	M12×1.75
MP3E-T63BM□-B18	63	49.5	35	18	50	12.5	M18×1.5
MP3E-T80BM□-B12	80	57.5	43	12	61	18	M12×1.75
MP3E-T80BM□-B18	80	57.5	43	18	61	18	M18×1.5
MP3E-T100BM□-B12	100	67	52.5	12	78.6	22	M12×1.75
MP3E-T100BM□-B18	100	67	52.5	18	78.6	22	M18×1.5
MP3E-T125BM□-B12	125	76.5	62	12	93.8	25	M12×1.75
MP3E-T125BM□-B18	125	76.5	62	18	93.8	25	M18×1.5

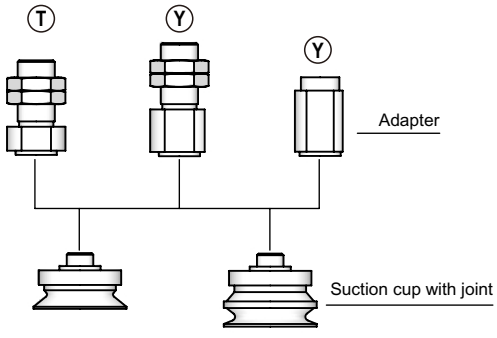
MP3 series

Adapter-equipped vacuum suction cup (φ32–φ125)

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General-purpose

System design of MP3E adapter-equipped vacuum suction cup



Structure

- The product consistes of a replaceable suction cup and an adapter
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed with a female threaded nut or a male threaded nut

System design of MP3E adapter-equipped vacuum suction cup

MP3E - T 32 UM N - AL14

① ② ③ ④ ⑤ ⑥

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification	⑤ Material of suction cup	⑥ Adapter specification
MP3E	T - Vertical	32 - φ32mm	UM - Grooved flat	N - nitrile rubber	AL14 - M14×1 male thread
	Y - Horizontal	40 - φ40mm	BM - Grooved bellows–type	S - silicone rubber	AL16 - M16×1.5 male thread
		50 - φ50mm			B8 - M8×1.25 female thread
		63 - φ63mm			B12 - M12×1.75 female thread
		80 - φ80mm			
		100 - φ100mm			
		125 - φ125mm			

MP3 series

Adapter-equipped vacuum suction cup (φ32–φ125)

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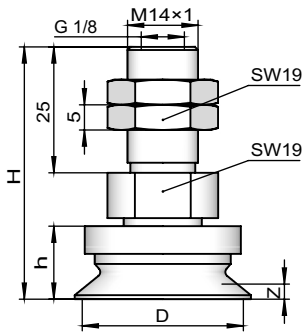
Model specifications of MP3E adapter-equipped vacuum suction cup

Model specification	Shape specification		T- Vertical		Y- Horizontal			
	UM	BM	AL14 M14×1 male thread	AL16 M16×1.5 male thread	AL14 M14×1 male thread	AL16 M16×1.5 male thread	B8 M8×1.25 female thread	B12 M12×1.75 female thread
φ32	●	●	●	-	●	-	●	-
φ40	●	●	●	-	●	-	●	-
φ50	●	●	●	-	●	-	●	-
φ63	●	●	-	●	-	●	-	●
φ80	●	●	-	●	-	●	-	●
φ100	●	●	-	●	-	●	-	●
φ125	●	●	-	●	-	●	-	●

System design of MP3E adapter-equipped vacuum suction cup

Type-UM suction cup (φ32–φ50mm)-Vacuum port in vertical direction

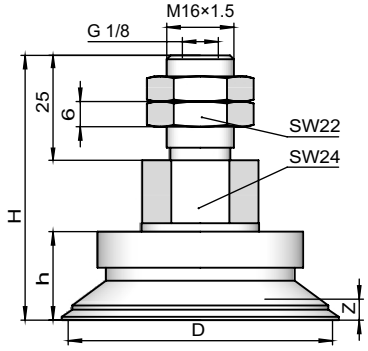
MP3E-T 32 to 50 UM□-AL14
(M14×1 male thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-T32UM□-AL14	35	50	14.5	2
MP3E-T40UM□-AL14	43	50	14.5	2.5
MP3E-T50UM□-AL14	53	50.6	15	3

Type-UM suction cup (φ63–φ125mm)—Vacuum port in vertical direction

MP3E-T 63 to 125 UM□-AL16
(M16×1.5 male thread)

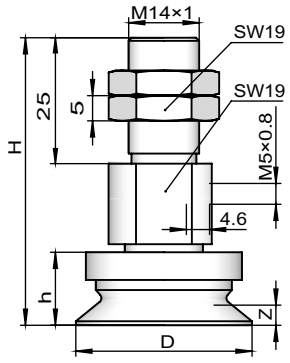


Model	Size (mm)			
	D	H	h	Z
MP3E-T63UM□-AL16	66	63	21	5
MP3E-T80UM□-AL16	83	63	21	5
MP3E-T100UM□-AL16	103	65.5	23.6	7
MP3E-T125UM□-AL16	128	65.5	23.6	7

System design of MP3E adapter-equipped vacuum suction cup

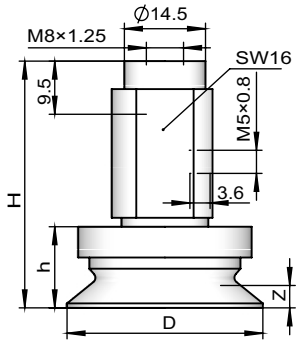
Type-UM suction cup (φ32–φ50mm)—Vacuum port in horizontal direction

MP3E-Y 32 to 50 UM□-AL14
(M14×1 male thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-Y32UM□-AL14	35	57	14.5	2
MP3E-Y40UM□-AL14	43	57	14.5	2.5
MP3E-Y50UM□-AL14	53	57.6	15	3

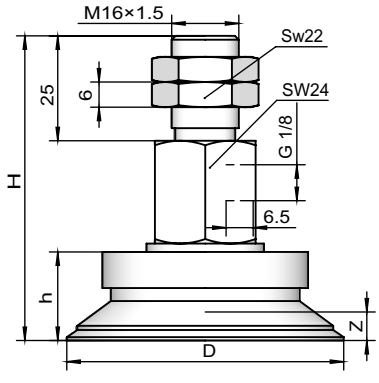
MP3E-Y 32 to 50 UM□-B8
(M8×1.25 female thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-Y32UM□-B8	35	44	14.5	2
MP3E-Y40UM□-B8	43	44	14.5	2.5
MP3E-Y50UM□-B8	53	44.6	15	3

Type-UM suction cup (φ63–φ125mm)—Vacuum port in horizontal direction

MP3E-Y 63 to 125 UM□-AL16
(M16×1.5 male thread)

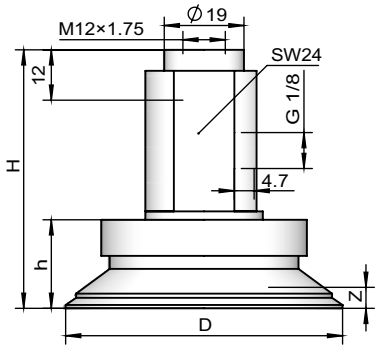


Model	Size (mm)			
	D	H	h	Z
MP3E-Y63UM□-AL16	66	72.6	21	5
MP3E-Y80UM□-AL16	83	72.6	21	5
MP3E-Y100UM□-AL16	103	75	23.6	7
MP3E-Y125UM□-AL16	128	75	23.6	7

System design of MP3E adapter-equipped vacuum suction cup

Type-UM suction cup (φ63–φ125mm)—Vacuum port in horizontal direction

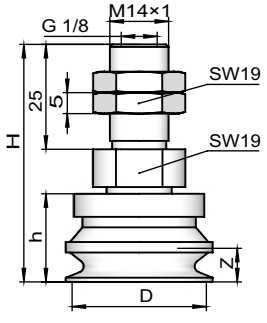
MP3E-Y 63 to 125 UM□ B12
(M12×1.75 female thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-Y63UM□-B12	66	61.6	21	5
MP3E-Y80UM□-B12	83	61.6	21	5
MP3E-Y100UM□-B12	103	64	23.6	7
MP3E-Y125UM□-B12	128	64	23.6	7

Type-BM suction cup (φ32–φ50mm)—Vacuum port in vertical direction

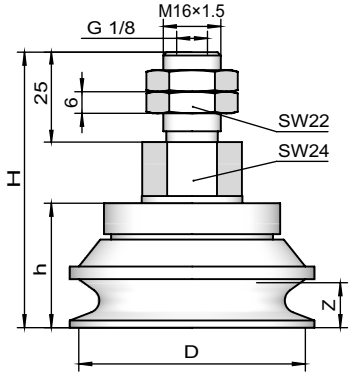
MP3E-T 32 to 50 BM□ AL14
(M14×1 male thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-T32BM□-AL14	35	56.6	21	5
MP3E-T40BM□-AL14	44	58.6	23	7
MP3E-T50BM□-AL14	54	62.1	26.5	10

Type-BM suction cup (φ63–φ125mm)—Vacuum port in vertical direction

MP3E-T 63 to 125 BM□ AL16
(M16×1.5 male thread)

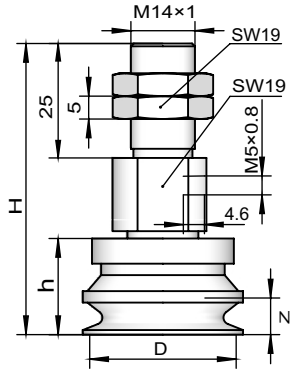


Model	Size (mm)			
	D	H	h	Z
MP3E-T63BM□-AL16	68	76.6	34.6	12.5
MP3E-T80BM□-AL16	85	84.6	42.6	18
MP3E-T100BM□-AL16	106	94	52	22
MP3E-T125BM□-AL16	133	103.6	61.6	25

System design of MP3E adapter-equipped vacuum suction cup

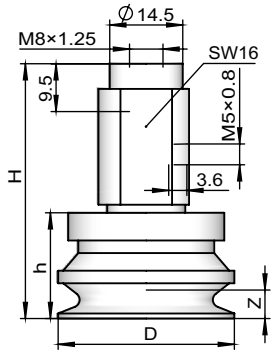
Type-BM suction cup (φ32–φ50mm)—Vacuum port in horizontal direction

MP3E-Y 32 to 50 BM□ AL14
(M14×1 male thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-Y32BM□ -AL14	35	63.6	21	5
MP3E-Y40BM□ -AL14	44	65.6	23	7
MP3E-Y50BM□ -AL14	54	69	26.5	10

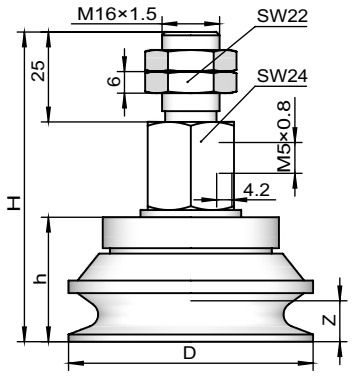
MP3E-Y 32 to 50 BM□ B8
(M8×1.25 female thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-Y32BM□ -B8	35	50.6	21	5
MP3E-Y40BM□ -B8	44	52.6	23	7
MP3E-Y50BM□ -B8	54	56	26.5	10

Type-BM suction cup (φ63–φ125mm)—Vacuum port in horizontal direction

MP3E-Y 63 to 125 BM□ AL16
(M16×1.5 male thread)

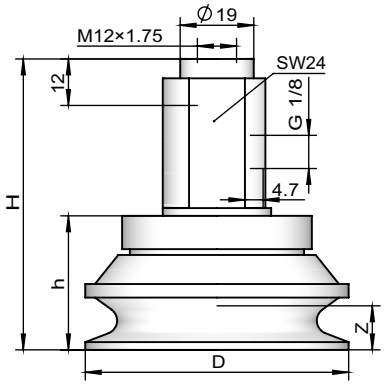


Model	Size (mm)			
	D	H	h	Z
MP3E-Y63BM□ -AL16	68	86	34.6	12.5
MP3E-Y80BM□ -AL16	85	94	42.6	18
MP3E-Y100BM□ -AL16	106	103.6	52	22
MP3E-Y125BM□ -AL16	133	113	61.6	25

System design of MP3E adapter-equipped vacuum suction cup

Type-BM suction cup (φ63–φ125mm)—Vacuum port in horizontal direction

MP3E-Y 63 to 125 BM□ B12
(M12×1.75 female thread)



Model	Size (mm)			
	D	H	h	Z
MP3E-Y63BM□-B12	68	75	34.6	12.5
MP3E-Y80BM□-B12	85	83	42.6	18
MP3E-Y100BM□-B12	106	92.6	52	22
MP3E-Y125BM□-B12	133	102	61.6	25

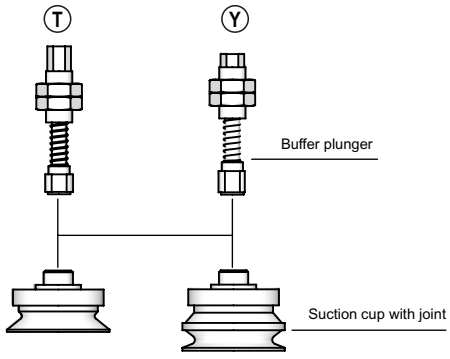
MP3E series

Vacuum suction cup with buffer plunger (φ32–φ125)

AMILA

General-purpose

System design of MP3E vacuum suction cup with buffer plunger



Structure

- The product consists of a replaceable suction cup and a buffer plunger
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed with a male threaded nut

Guide to purchase of MP3E vacuum suction cup with buffer plunger

MP3E - T 32 UM N - JB 10

① ② ③ ④ ⑤ ⑥ ⑦

① Product series	② Vacuum port direction	③ Size specification	④ Shape specification
MP3E	T - Vertical Y - Horizontal	32 - φ32mm 40 - φ40mm 50 - φ50mm 63 - φ63mm 80 - φ80mm 100 - φ100mm 125 - φ125mm	UM - Grooved flat BM - Grooved bellows–type

⑤ Material of suction cup	⑥ Slewing mode	⑦ Buffering stoke
N - nitrile rubber S - silicone rubber	JB - Slewing, bushing-equipped	10 - 10mm 30 - 30mm 50 - 50mm

MP3E series

Vacuum suction cup with buffer plunger (φ32–φ125)

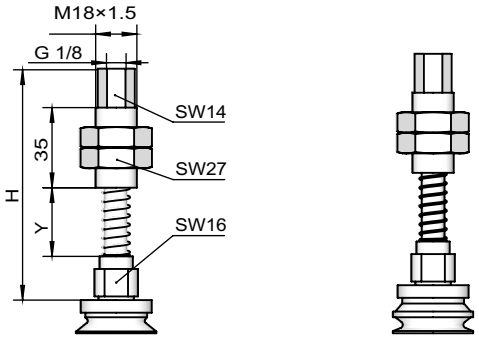
Model specifications of MP3E vacuum suction cup with buffer plunger

Model specification	Shape specification		Vacuum port direction		Buffering travel		
	UM	BM	T- Vertical	Y- Horizontal	10	30	50
φ32	●	●	●	●	●	●	●
φ40	●	●	●	●	●	●	●
φ50	●	●	●	●	●	●	●
φ63	●	●	●	●	●	●	●
φ80	●	●	●	●	●	●	●
φ100	●	●	●	●	●	●	●
φ125	●	●	●	●	●	●	●

Design parameters of MP3E vacuum suction cup with buffer plunger

MP3E-T 32 to 50 □ UM(BM)...

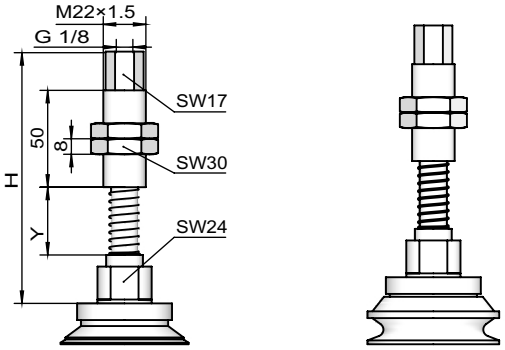
Vertically-slewing, bushing-equipped



Model	Size (mm)		Applicable suction cup
	H	Y	
MP3E-T □ UM(BM)□-JB10	101.1	10	32.40.50
MP3E-T □ UM(BM)□-JB30	126.1	30	32.40.50
MP3E-T □ UM(BM)□-JB50	146.1	50	32.40.50

MP3E-T 63 to 125 □ UM(BM)...

Vertically-slewing, bushing-equipped



Model	Size (mm)		Applicable suction cup
	H	Y	
MP3E-T □ UM(BM)□-JB10	130	10	63.80.100.125
MP3E-T □ UM(BM)□-JB30	155	30	63.80.100.125
MP3E-T □ UM(BM)□-JB50	175	50	63.80.100.125

MP3E series

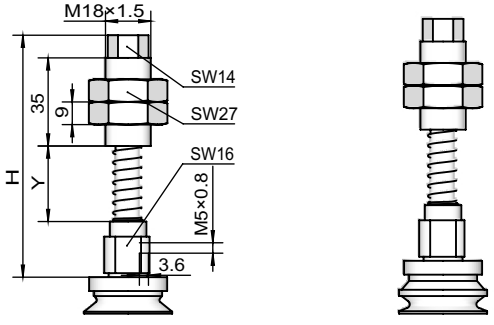
Vacuum suction cup with buffer plunger (φ32–φ125)

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Model specifications of MP3E vacuum suction cup with buffer plunger

MP3E-Y 32 to 50 □ UM(BM)...

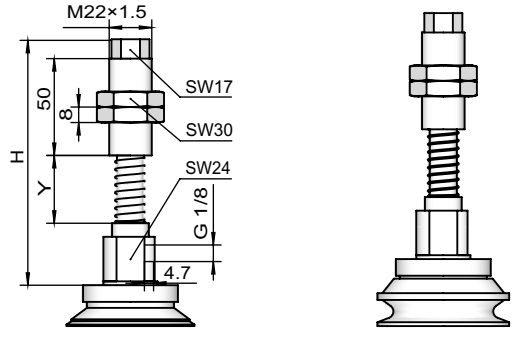
Horizontally-slewing, bushing-equipped



Model	Size (mm)		Applicable suction cup
	H	Y	
MP3E-Y □ UM(BM)□-JB10	96.1	10	32.40.50
MP3E-Y □ UM(BM)□-JB30	121.1	30	32.40.50
MP3E-Y □ UM(BM)□-JB50	141.1	50	32.40.50

MP3E-Y 63 to 125 □ UM(BM)...

Horizontally-slewing, bushing-equipped



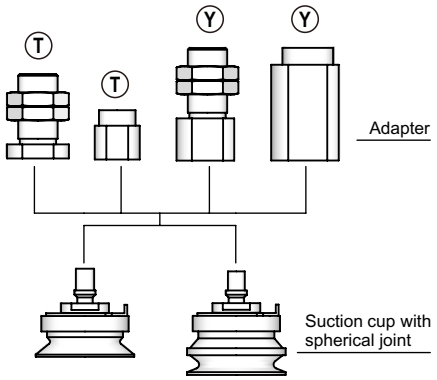
Model	Size (mm)		Applicable suction cup
	H	Y	
MP3E-Y □ UM(BM)□-JB10	127	10	63.80.100.125
MP3E-Y □ UM(BM)□-JB30	152	30	63.80.100.125
MP3E-Y □ UM(BM)□-JB50	172	50	63.80.100.125

MP3E series

Swinging vacuum suction cup with adapter (φ32–φ125)

General-purpose

System design of MP3E adapter-equipped swinging vacuum suction cup



Structure

- The product consistes of a replaceable suction cup and an adapter
- The vacuum port in vertical direction is installed with a female or male threaded nut
- The vacuum port in horizontal direction is installed with a female threaded nut or a male threaded nut

Purchase guide of swinging vacuum suction cup with adapter

MP3E - T F 32 UM N - AL14

① ② ③ ④ ⑤ ⑥ ⑦

① Product series	② Vacuum port direction	③ Joint type	④ Size specification
MP3E	**T** - Vertical **Y** - Horizontal	F - Swinging	**32** - φ32mm **80** - φ80mm **40** - φ40mm **100** - φ100mm **50** - φ50mm **125** - φ125mm **63** - φ63mm

⑤ Shape specification	⑥ Material of suction cup	⑦ Adapter specification
UM - Grooved flat BM - Grooved bellows–type	N - nitrile rubber S - silicone rubber	AL14 - M14×1 male thread AL16 - M16×1.5 male thread B8 - M8×1.25 female thread B12 - M12×1.75 female thread

MP3E series

Swinging vacuum suction cup with adapter (φ32–φ125)

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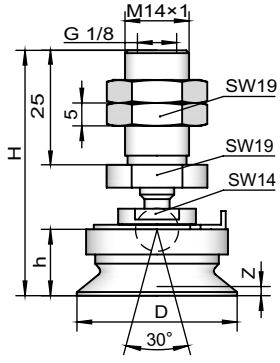
Model specifications of swinging vacuum suction cup with adapter

Model specification	Shape specification		Connection specification	T- Vertical				Y- Horizontal			
	UM	BM		AL14 M14×1 male thread	AL16 M16×1.5 male thread	B8 M8×1.25 female thread	B12 M12×1.75 female thread	AL14 M14×1 male thread	AL16 M16×1.5 male thread	B8 M8×1.25 female thread	B12 M12×1.75 female thread
φ32	●	●		●	-	●	-	●	-	●	-
φ40	●	●		●	-	●	-	●	-	●	-
φ50	●	●		●	-	●	-	●	-	●	-
φ63	●	●		-	●	-	●	-	●	-	●
φ80	●	●		-	●	-	●	-	●	-	●
φ100	●	●		-	●	-	●	-	●	-	●
φ125	●	●		-	●	-	●	-	●	-	●

Design parameters of swinging vacuum suction cup with adapter

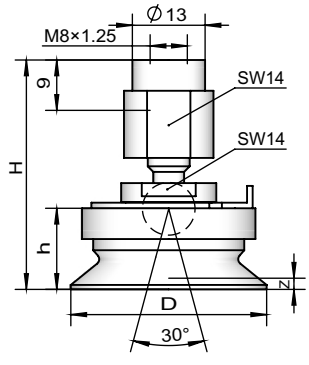
Type-UM suction cup (φ32–φ50mm)—Vacuum port in vertical direction

MP3E-TF 32 to 50 UM□-AL14
(M14×1 male thread)



Model	Size (mm)			
	D	H	h	z
MP3E-TF32UM□-AL14	35	53.6	14.5	2
MP3E-TF40UM□-AL14	43	53.6	14.5	2.5
MP3E-TF50UM□-AL14	53	54	15	3

MP3E-TF 32 to 50 UM□-B8
(M8×1.25 female thread)

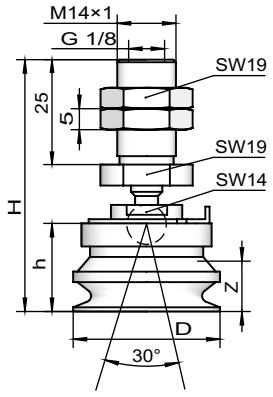


Model	Size (mm)			
	D	H	h	z
MP3E-TF32UM□-B8	35	41	14.5	2
MP3E-TF40UM□-B8	43	41	14.5	2.5
MP3E-TF50UM□-B8	53	41.6	15	3

Model specifications of swinging vacuum suction cup with adapter

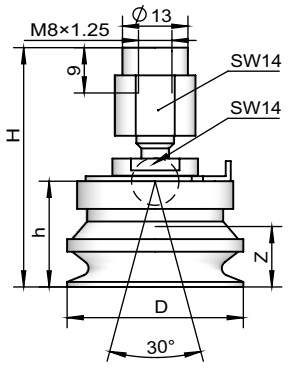
Type-BM suction cup (φ32–φ50mm)—Vacuum port in vertical direction

MP3E-TF 32 to 50 BM□-AL14
(M14×1 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-TF32BM □-AL14	35	60	21	5
MP3E-TF40BM □-AL14	44	62	23	7
MP3E-TF50BM □-AL14	54	65.6	26.5	10

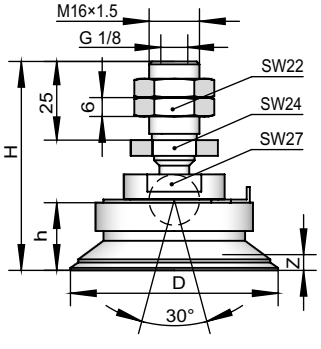
MP3E-TF 32 to 50 BM□-B8
(M8×1.25 female thread)



Model	Size[mm]			
	D	H	h	z
MP3E-TF32BM □-B8	35	47.6	21	5
MP3E-TF40BM □-B8	44	49.6	23	7
MP3E-TF50BM □-B8	54	53	26.5	10

Type-UM suction cup (φ63–φ125mm)—Vacuum port in vertical direction

MP3E-TF 63 to 125 UM□-AL16
(M16×1.5 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-TF63UM □-AL16	66	66.5	21.5	5
MP3E-TF80UM □-AL16	83	66.5	21.5	5
MP3E-TF100UM □-AL16	103	69	24	7
MP3E-TF125UM □-AL16	128	69	24	7

MP3E series

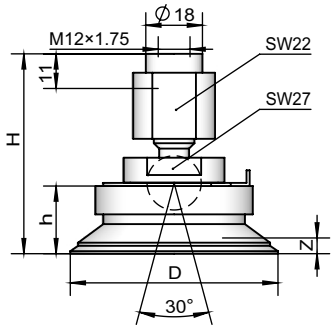
Swinging vacuum suction cup with adapter (φ32–φ125)

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Model specifications of swinging vacuum suction cup with adapter

Type-UM suction cup (φ63–φ125mm)—Vacuum port in vertical direction

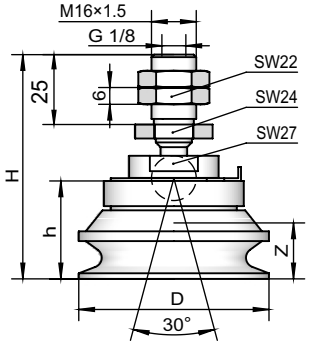
MP3E-TF 63 to 125 UM□-B12
(M12×1.75 female thread)



Model	Size[mm]			
	D	H	h	z
MP3E-TF63UM □-B12	66	63.5	21.5	5
MP3E-TF80UM □-B12	83	63.5	21.5	5
MP3E-TF100UM □-B12	103	66	24	7
MP3E-TF125UM □-B12	128	66	24	7

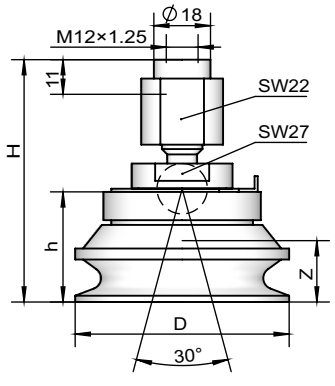
Type-BM suction cup (φ63–φ125mm)—Vacuum port in vertical direction

MP3E-TF 63 to 125 BM□-AL16
(M16×1.5 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-TF63BM □-AL16	68	80	35	12.5
MP3E-TF80BM □-AL16	85	88	43	18
MP3E-TF100BM □-AL16	106	97.5	52.5	22
MP3E-TF125BM □-AL16	133	107	62	25

MP3E-TF 63 to 125 BM□-B12
(M12×1.75 female thread)

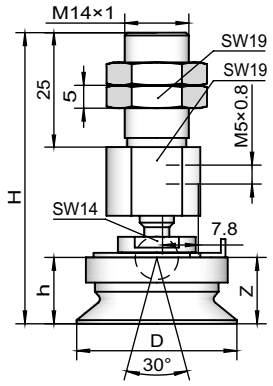


Model	Size[mm]			
	D	H	h	z
MP3E-TF63BM □-B12	68	77	35	12.5
MP3E-TF80BM □-B12	85	85	43	18
MP3E-TF100BM □-B12	106	94.5	52.5	22
MP3E-TF125BM □-B12	133	104	62	25

Model specifications of swinging vacuum suction cup with adapter

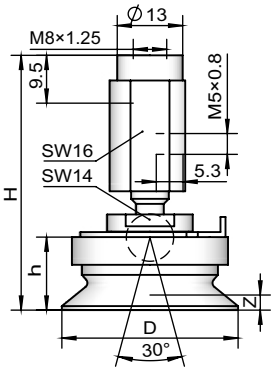
Type-UM suction cup (φ32–φ50mm)—Vacuum port in horizontal direction

MP3E-YF 32 to 50 UM□-AL14
(M14×1 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF32UM □-AL14	35	63.6	14.5	2
MP3E-YF40UM □-AL14	43	63.6	14.5	2.5
MP3E-YF50UM □-AL14	53	64	15	3

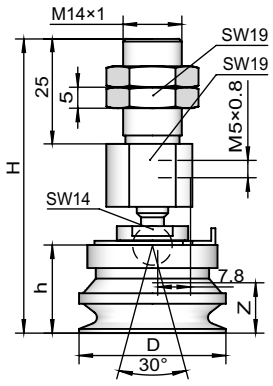
MP3E-YF 32 to 50 UM□-B8
(M8×1.25 female thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF32UM □-B8	35	50.6	14.5	2
MP3E-YF40UM □-B8	43	50.6	14.5	2.5
MP3E-YF50UM □-B8	53	51	15	3

Type-BM suction cup (φ32–φ50mm)—Vacuum port in horizontal direction

MP3E-YF 32 to 50 BM□-AL14
(M14×1 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF32BM □-AL14	35	70	21	5
MP3E-YF40BM □-AL14	44	72	23	7
MP3E-YF50BM □-AL14	54	75.6	26.5	10

MP3E series

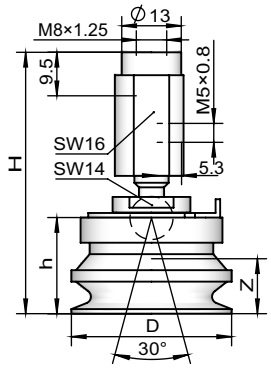
Swinging vacuum suction cup with adapter (φ32–φ125)

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Design parameters of swinging vacuum suction cup with adapter

Type-BM suction cup (φ32–φ50mm)—Vacuum port in horizontal direction

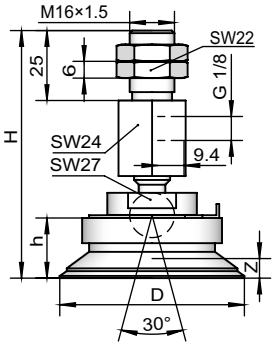
MP3E-YF 32 to 50 BM□-B8
(M8×1.25内螺纹) (M8×1.25 female thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF32BM □-B8	35	57	21	5
MP3E-YF40BM □-B8	44	59	23	7
MP3E-YF50BM □-B8	54	62.6	26.5	10

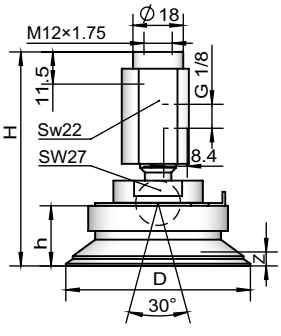
Type-UM suction cup (φ63–φ125mm)—Vacuum port in horizontal direction

MP3E-YF 63 to 125 UM□-AL16
(M16×1.5 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF63UM □-AL16	66	88.5	21.5	5
MP3E-YF80UM □-AL16	83	88.5	21.5	5
MP3E-YF100UM □-AL16	103	91	24	7
MP3E-YF125UM □-AL16	128	91	24	7

MP3E-YF 63 to 125 UM□-B12
(M12×1.75 female thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF63UM □-B12	66	76.5	21.5	5
MP3E-YF80UM □-B12	83	76.5	21.5	5
MP3E-YF100UM □-B12	103	79	24	7
MP3E-YF125UM □-B12	128	79	24	7

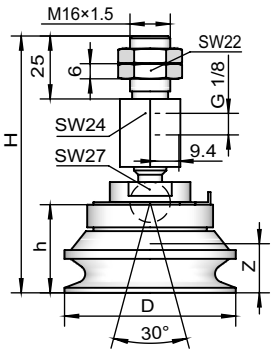
MP3E series

Swinging vacuum suction cup with adapter (φ32–φ125)

Design parameters of swinging vacuum suction cup with adapter

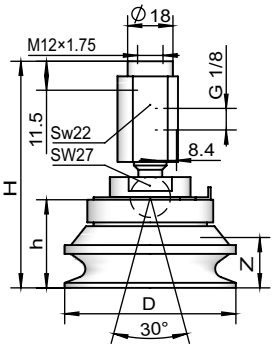
Type-BM suction cup (φ63–φ125mm)—Vacuum port in horizontal direction

MP3E-YF 63 to 125 BM□ -AL16
(M16×1.5 male thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF63BM □-AL16	68	102	35	12.5
MP3E-YF80BM □-AL16	85	110	43	18
MP3E-YF100BM □-AL16	106	119.5	52.5	22
MP3E-YF125BM □-AL16	133	129	62	25

MP3E-YF 63 to 125 BM□ -B12
(M12×1.75 female thread)



Model	Size[mm]			
	D	H	h	z
MP3E-YF63BM □-B12	68	90	35	12.5
MP3E-YF80BM □-B12	85	98	43	18
MP3E-YF100BM □-B12	106	107.5	52.5	22
MP3E-YF125BM □-B12	133	117	62	25

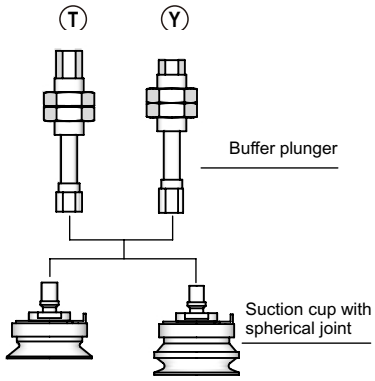
MP3E series

Swinging vacuum suction cup with buffer plunger (φ32–φ125)

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General-purpose

System design of MP3E swinging vacuum suction cup with buffer plunger



Structure

- The product consists of a replaceable suction cup and a buffer plunger
- The vacuum port in vertical direction is installed with a male threaded nut
- The vacuum port in horizontal direction is installed with a male threaded nut

Guide to purchase of MP3E swinging vacuum suction cup with buffer plunger

MP3E - T F 32 UM N - JB 10

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Product series	② Vacuum port direction	③ Joint type	④ Size specification
MP3E	**T** - Vertical **Y** - Horizontal	F - Swinging	**32** - φ32mm **80** - φ80mm **40** - φ40mm **100** - φ100mm **50** - φ50mm **125** - φ125mm **63** - φ63mm

⑤ Shape specification	⑥ Material of suction cup	⑦ Slewing mode	⑧ Buffering stoke
UM - Grooved flat BM - Grooved bellows–type	N - nitrile rubber S - silicone rubber	JB - Slewing, bushing-equipped	**10** - 10mm **30** - 30mm **50** - 50mm

MP3E series

Swinging vacuum suction cup with buffer plunger (φ32–φ125)

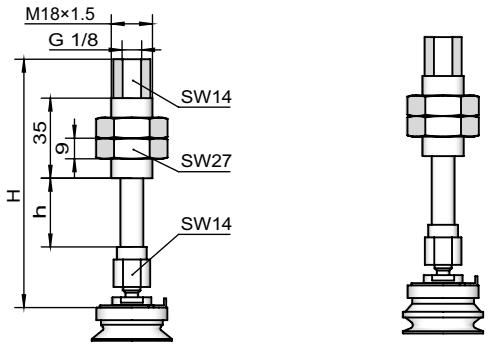
Model specifications of MP3E swinging vacuum suction cup with buffer plunger

Model specification	Shape specification		Vacuum port direction		Buffering stoke mm		
	UM	BM	T- Vertical	Y- Horizontal	10	30	50
φ32	●	●	●	●	●	●	●
φ40	●	●	●	●	●	●	●
φ50	●	●	●	●	●	●	●
φ63	●	●	●	●	●	●	●
φ80	●	●	●	●	●	●	●
φ100	●	●	●	●	●	●	●
φ125	●	●	●	●	●	●	●

Design parameters of MP3E swinging vacuum suction cup with buffer plunger

MP3E-TF 32 to 50 □ UM(BM)...

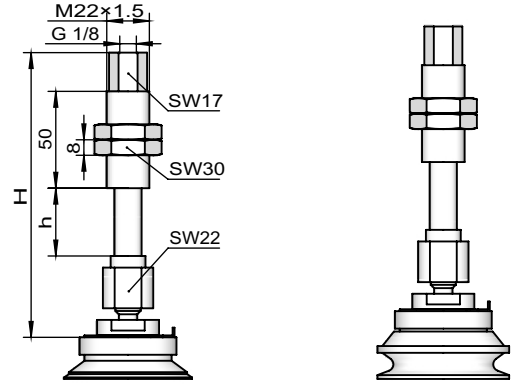
Vertically-slewing, bushing-equipped



Model	Size[mm]		Applicable suction cup
	H	h	
MP3E-TF □UM(BM)□ -JB10	108.5	10	32 40 50
MP3E-TF □UM(BM)□ -JB30	133.5	30	32 40 50
MP3E-TF □UM(BM)□ -JB50	153.5	50	32 40 50

MP3E-TF 63 to 125 □ UM(BM)...

Vertically-slewing, bushing-equipped



Model	Size[mm]		Applicable suction cup
	H	h	
MP3E-TF □UM(BM)□ -JB10	147	10	63 80 100 125
MP3E-TF □UM(BM)□ -JB30	172	30	63 80 100 125
MP3E-TF □UM(BM)□ -JB50	192	50	63 80 100 125

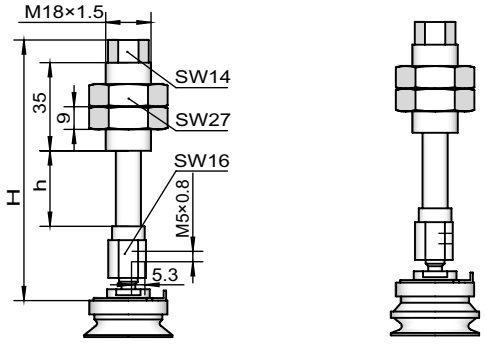
MP3E series

Swinging vacuum suction cup with buffer plunger (φ32–φ125)

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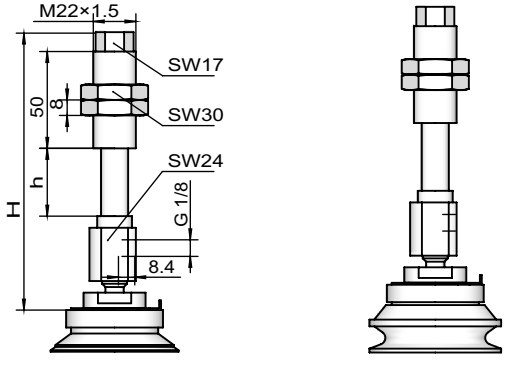
Design parameters of MP3E swinging vacuum suction cup with buffer plunger

MP3E-YF 32 to 50 □ UM(BM)...
Vertically-slewing,
bushing-equipped



Model	Size[mm] H	h	Applicable suction cup
MP3E-YF □UM(BM)□ -JB10	103.5	10	32 40 50
MP3E-YF □UM(BM)□ -JB30	128.5	30	32 40 50
MP3E-YF □UM(BM)□ -JB50	148.5	50	32 40 50

MP3E-YF 63 to 125 □ UM(BM)...
Vertically-slewing,
bushing-equipped



Model	Size[mm] H	h	Applicable suction cup
MP3E-YF □UM(BM)□ -JB10	143.5	10	63 80 100 125
MP3E-YF □UM(BM)□ -JB30	168.5	30	63 80 100 125
MP3E-YF □UM(BM)□ -JB50	188.5	50	63 80 100 125

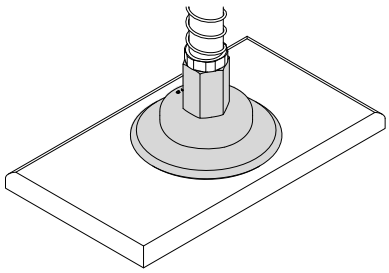
Round flat suction cup

PFG flat suction cup

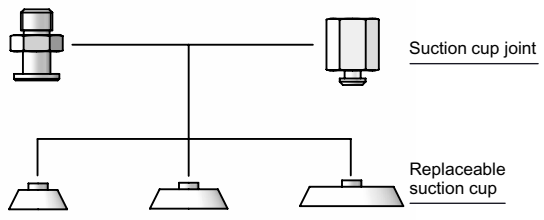
Universal



Application of PFG flat suction cup



System design of PFG flat suction cup



Introduction

- Handles flat plates with smooth or slightly rough surfaces
- Handles high-temperature workpieces (HT1, S)
- Almost traceless and static-proof handling of workpieces sensitive to pressure (HT1, GN and GS series)

Application

- Applicable to flat plates with smooth or slightly rough surfaces,such as smooth wood boards, smooth steel plates, plastic plates, plywood boards, etc.
- Applicable to handling electronic elements where the anti-static material can effectively prevent static from damaging electronic products

Structure

- Diameter 50mm and below: joint plugged in on cups
- Diameter of 60mm or more: The mounting plate and the suction cup pad are bonded together by vulcanization. The joint screws in directly through thread

Round flat suction cup

PFG flat suction cup

AMILA

PFG flat suction cup purchase guide

PFG 2 N M3-AG

① ② ③ ④

①Product series	② Size specification		③Material	④Joint specification
PFG	2 - φ2mm	30 - φ30mm	F - fluorine rubber	Null—Bare suction cup
	3.5 - φ3.5mm	35 - φ35mm	HT1 - High temperature resistant traceless material	M3-AG - M3 male thread
	5 - φ5mm	40 - φ40mm	N - nitrile rubber	M5-AG - M5 male thread
	6 - φ6mm	50 - φ50mm	GN - static-proof nitrile rubber (Static resistance index: 10^5–10^9)	M5-IG - M5 female thread
	8 - φ8mm	60 - φ60mm	S - silicone rubber	G1/8-AG - G1/8 male thread
	10 - φ10mm	80 - φ80mm	GS - static-proof silicone rubber (Static resistance index: 10^5–10^9)	G1/8-IG - G1/8 Female thread
	15 - φ15mm	95 - φ95mm		G1/4-AG - G1/4 male thread
	20 - φ20mm	120 - φ120mm		G1/4-IG - G1/4 Female thread
	25 - φ25mm			G1/2-IG - G1/2 Female thread

Note: AG=Male thread IG=Female thread

PFG flat suction cup joint model specifications

Model specification	M3-AG	M5-AG	M5-IG	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG	G1/2-IG
PFG 2	●	-	-	-	-	-	-	-
PFG 3.5	●	-	-	-	-	-	-	-
PFG 5	-	●	●	-	-	-	-	-
PFG 6	-	●	●	-	-	-	-	-
PFG 8	-	●	●	-	-	-	-	-
PFG 10	-	●	●	●	●	-	-	-
PFG 15	-	-	-	●	●	-	-	-
PFG 20	-	-	-	●	●	-	-	-
PFG 25	-	-	-	●	●	-	-	-
PFG 30	-	-	-	●	●	-	-	-
PFG 35	-	-	-	●	●	-	-	-
PFG 40	-	-	-	●	●	-	-	-
PFG 50	-	-	-	●	●	-	-	-
PFG 60	-	-	-	-	-	●	●	-
PFG 80	-	-	-	-	-	●	●	-
PFG 95	-	-	-	-	-	●	●	-
PFG 120	-	-	-	-	-	-	-	●

Round flat suction cup

PFG flat suction cup

PFG flat suction cup fittings' model specifications

Fitting Name	Model Specification		Applicable Suction Cup
	AG - Male thread	IG - Female thread	
Suction cup joint	S003 M3-AG		PFG 2 PFG 3.5
	S004 M5-AG	S004 M5-IG	PFG 5 PFG 6 PFG 8 PFG 10
	S004 G1/8-AG	S004 G1/8-IG	PFG 10
	S005 G1/8-AG	S005 G1/8-IG	PFG 15
	S006 G1/8-AG	S006 G1/8-IG	PFG 20
	S007 G1/8-AG	S007 G1/8-IG	PFG 25 PFG 30 PFG 35 PFG 40
	S008 G1/8-AG	S008 G1/8-IG	PFG 50
	S009 G1/4-AG	S009 G1/4-IG	PFG 60 PFG 80 PFG 95
		S010 G1/2-IG	PFG 120

Technical parameters of PFG flat suction cup

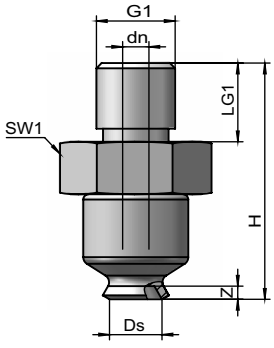
Model	Suction force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Weight g
PFG 2	0.12	0.001	2	0.12
PFG 3.5	0.42	0.002	8	0.21
PFG 5	0.75	0.005	8	0.3
PFG 6	1.20	0.008	8	0.36
PFG 8	2.30	0.030	10	0.48
PFG 10	4.00	0.070	13	0.6
PFG 15	9.00	0.400	13	0.9
PFG 20	15.50	0.800	20	1.6
PFG 25	26.50	1.300	25	2.8
PFG 30	34.00	1.300	40	3.4
PFG 35	44.00	2.700	50	4.4
PFG 40	57.70	3.800	50	5.7
PFG 50	91.00	7.000	75	7.3
PFG 60	125.00	10.000	100	46.7
PFG 80	260.00	25.000	150	62
PFG 95	350.00	35.000	200	70
PFG 120	540.00	77.800	300	146.2

Round flat suction cup

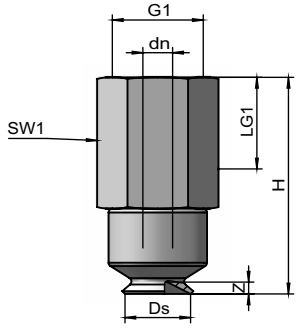
PFG flat suction cup

Design parameters of PFG flat suction cup

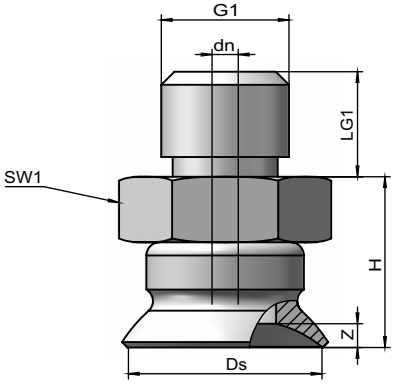
PFG 2 to 10 AG



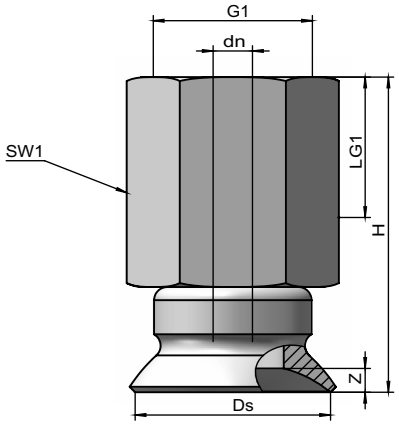
PFG 5 to 10 IG



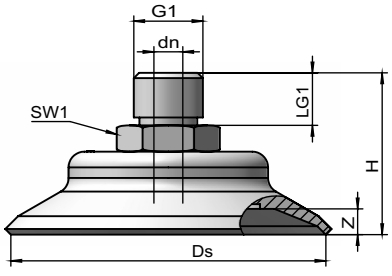
PFG 15 to 50 AG



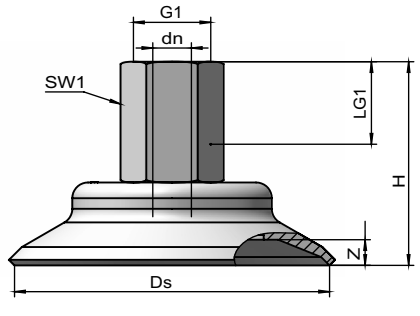
PFG 15 to 50 IG



PFG 60 to 95 AG



PFG 60 to 95 IG

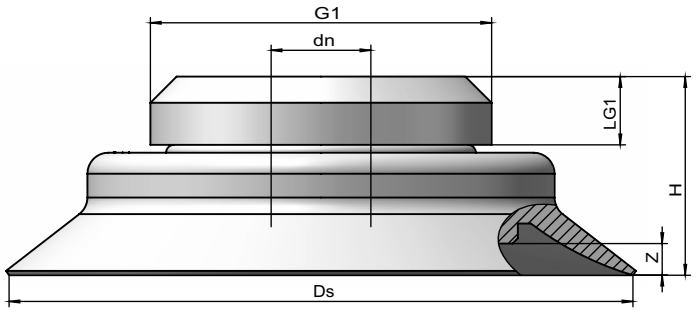


Round flat suction cup

PFG flat suction cup

Design parameters of PFG flat suction cup

PFG 120 IG



Model	Size (mm)						
	dn	Ds	G1	H	LG1	SW1	Z (stoke)
PFG 2 M3-AG	1.0	2.0	M3-AG	6.0	3.0	5	0.5
PFG 3.5 M3-AG	1.0	3.5	M3-AG	6.0	3.0	5	0.5
PFG 5 M5-AG	2.0	5.0	M5-AG	11.5	4.5	8	0.9
PFG 5 M5-IG	2.0	5.0	M5-IG	16.5	5.5	8	0.9
PFG 6 M5-AG	2.0	6.0	M5-AG	11.5	4.5	8	1.0
PFG 6 M5-IG	2.0	6.0	M5-IG	16.5	5.5	8	1.0
PFG 8 M5-AG	2.0	8.0	M5-AG	12.0	4.5	8	1.4
PFG 8 M5-IG	2.0	8.0	M5-IG	17.0	5.5	8	1.4
PFG 10 M5-AG	2.0	10.0	M5-AG	12.5	4.5	8	1.3
PFG 10 M5-IG	2.0	10.0	M5-IG	17.5	5.5	8	1.3
PFG 10 G1/8-AG	2.0	10.0	G1/8"-AG	12.5	8.0	14	1.3
PFG 10 G1/8-IG	2.0	10.0	G1/8"-IG	23.5	9.0	14	1.3
PFG 15 G1/8-AG	2.0	15.0	G1/8"-AG	13.0	8.0	14	1.9
PFG 15 G1/8-IG	2.0	15.0	G1/8"-IG	24.0	9.0	14	1.9
PFG 20 G1/8-AG	2.0	20.0	G1/8"-AG	15.0	8.0	14	2.3
PFG 20 G1/8-IG	2.0	20.0	G1/8"-IG	26.0	9.0	14	2.3
PFG 25 G1/8-AG	2.4	25.0	G1/8"-AG	19.0	8.0	14	3.0
PFG 25 G1/8-IG	2.4	25.0	G1/8"-IG	30.0	9.0	14	3.0
PFG 30 G1/8-AG	2.4	28.8	G1/8"-AG	17.0	8.0	14	2.0
PFG 30 G1/8-IG	2.4	28.8	G1/8"-IG	28.0	9.0	14	2.0
PFG 35 G1/8-AG	2.4	35.0	G1/8"-AG	19.0	8.0	14	3.0
PFG 35 G1/8-IG	2.4	35.0	G1/8"-IG	30.0	9.0	14	3.0
PFG 40 G1/8-AG	2.4	40.0	G1/8"-AG	19.0	8.0	14	3.5
PFG 40 G1/8-IG	2.4	40.0	G1/8"-IG	30.0	9.0	14	3.5
PFG 50 G1/8-AG	2.4	50.0	G1/8"-AG	20.0	8.0	14	4.0
PFG 50 G1/8-IG	2.4	50.0	G1/8"-IG	31.0	9.0	14	4.0
PFG 60 G1/4-AG	5.5	60.0	G1/4"-AG	23.0	10.0	17	5.0
PFG 60 G1/4-IG	5.5	60.0	G1/4"-IG	39.0	11.0	17	5.0
PFG 80 G1/4-AG	5.5	80.0	G1/4"-AG	25.0	10.0	17	6.0
PFG 80 G1/4-IG	5.5	80.0	G1/4"-IG	41.0	11.0	17	6.0
PFG 95 G1/4-AG	5.5	95.0	G1/4"-AG	25.5	10.0	17	6.0
PFG 95 G1/4-IG	5.5	95.0	G1/4"-IG	41.5	11.0	17	6.0
PFG 120 G1/2-IG	13.5	120.0	G1/2"-IG	36.5	13.0	–	6.0

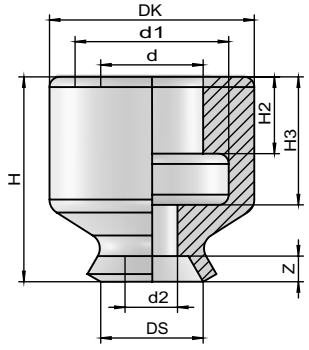
Round flat suction cup

PFG flat suction cup

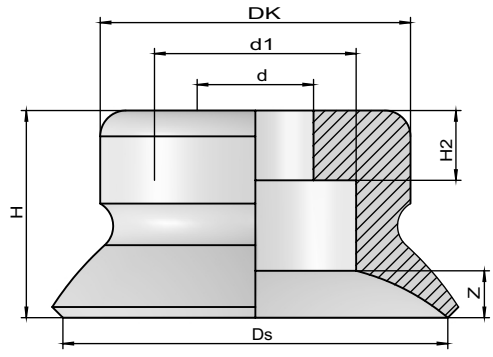
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Design parameters of PFG flat suction cup parts

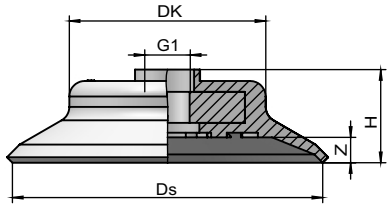
PFG 2 to 10



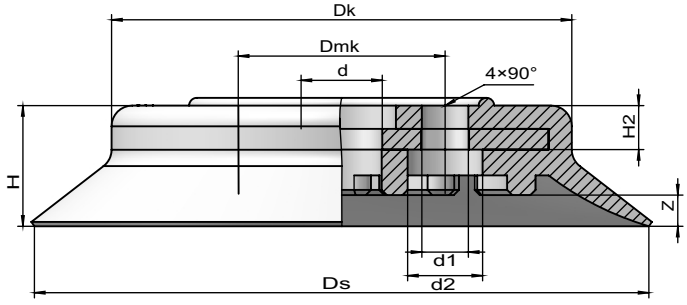
PFG 15 to 50



PFG 60 to 95



PFG 120



Model	Size (mm)										
	d	d1	d2	DK	Dmk	Ds	G1	H	H2	H3	Z (stoke)
PFG 2	2.0	3.0	1.0	4.0	–	2.0	–	4.0	1.5	2.5	0.5
PFG 3.5	2.0	3.0	1.0	4.0	–	3.5	–	4.0	1.5	2.5	0.5
PFG 5	4.0	6.0	1.5	7.5	–	5.0	–	6.5	2.0	4.0	0.9
PFG 6	4.0	6.0	2.0	7.5	–	6.0	–	6.5	2.0	4.0	1.0
PFG 8	4.0	6.0	2.0	8.0	–	8.0	–	7.0	2.0	4.0	1.4
PFG 10	4.0	6.0	2.0	8.5	–	10.0	–	7.5	2.6	4.0	1.3
PFG 15	4.5	7.8	–	12.0	–	15.0	–	8.0	4.5	–	1.9
PFG 20	4.5	11.0	–	15.0	–	20.0	–	10.0	7.0	–	2.3
PFG 25	6.0	11.0	–	16.0	–	25.0	–	14.0	7.0	–	3.0
PFG 30	6.0	11.0	–	14.5	–	28.8	–	12.0	7.0	–	2.0
PFG 35	6.0	11.0	–	20.5	–	35.0	–	14.0	7.0	–	3.0
PFG 40	6.0	11.0	–	24.0	–	40.0	–	14.0	7.2	–	3.5
PFG 50	8.0	20.0	–	28.5	–	50.0	–	15.0	–	–	4.0
PFG 60	–	–	–	38.5	–	60.0	M10x1.25-IG	18.0	–	–	5.0
PFG 80	–	–	–	52.0	–	80.0	M10x1.25-IG	18.0	–	–	6.0
PFG 95	–	–	–	68.0	–	95.0	M10x1.25-IG	19.0	–	–	6.0
PFG 120	13.5	7.0	14.5	90.0	40	120.0	–	23.5	8.5	–	6.0

Round flat suction cup

MP2-HT flat suction cup

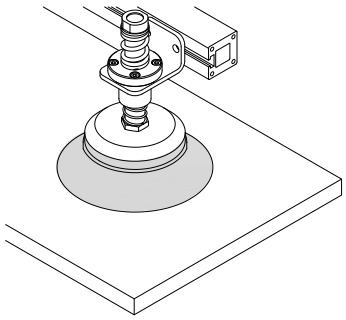
Heavy-duty



Introduction

- A support structure in the bottom
- Can prevent permanent deformation of thin-walled workpieces
- The mounting plate and the suction cup are bonded together by vulcanization so as to form a firmer structure

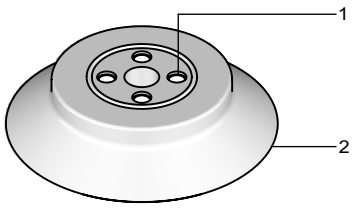
Application of MP2-HT flat suction cup



Application

- Handles workpieces with smooth and even surfaces, such as glass or plastic plates, etc., being capable of maintaining the holding force for a long time
- Handles large workpieces with surfaces curved to a certain degree

System design of MP2-HT flat suction cup



Structure

- (1) Mounting hole
- (2) Main body of suction cup

Round flat suction cup

MP2-HT flat suction cup

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MP2-HT flat suction cup purchase guide

MP2 150 HT N

① ② ③ ④

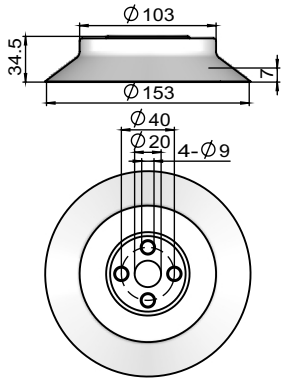
① Product series	② Size specification	③ Shape of Suction Cup	④ Material
MP2	**150** - φ150mm **250** - φ250mm	HT - Flat reinforced	N - Nitrilerubber S - Silicone rubber

Technical parameters of MP2-HT flat suction cup

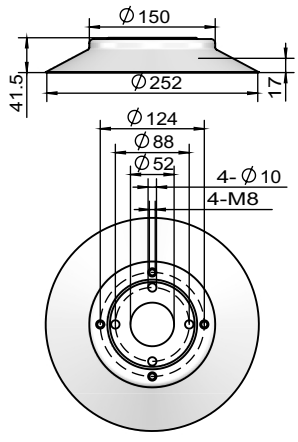
Model	Suction force **N**	Internal Volume **cm^3**	Weight **g**
MP2 150 HT □	970	108	350
MP2 250 HT □	2690	570	831

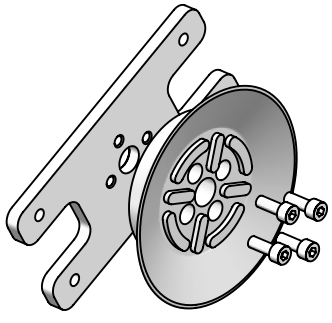
Design parameters of MP2-HT flat suction cup

MP2 150 HT □



MP2 250 HT □





Large flat suction cup

MPU flat suction cup



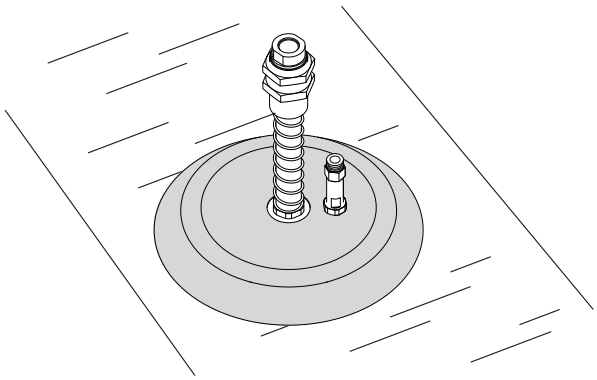
Sheet metal Wood Heavy-duty



Introduction

- A large-area support structure in the bottom
- Double lip seals to offer excellent sealing and large suction force
- Small internal volume
- Replaceable rubber suction cup
- Can prevent permanent deformation of thin-walled workpieces
- Short operating cycle
- Costs significantly reduced for customers
- Applicable to workpieces of different sizes and in different shapes

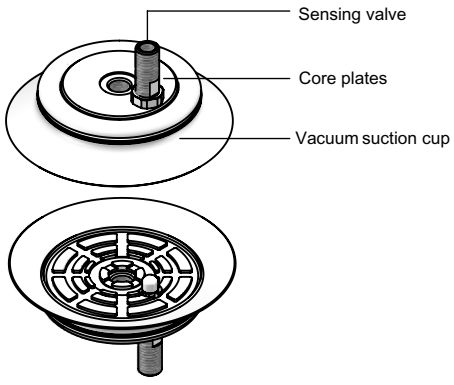
Application of MPU flat suction cup



Application

- Handles workpieces with even or slightly deforming surfaces
- When the optional touch valve detects that the product is not in contact with the workpiece, the corresponding vacuum loop can be cut off.

System design of MPU flat suction cup



Structure

- The suction cup core and rubber suction cup are designed to be detachable from each other so that the vulnerable elements can be easily replaced.
- Independent functional interfaces equipped
- The optional touch valve can prevent unexpected vacuum leakage

Large flat suction cup

MPU flat suction cup

AMILA

MPU flat suction cup purchase guide

MPU 125 N G1/4-IG TV

① ② ③ ④ ⑤

①Product series	②Size specification	③Material	④Joint specification	⑤Special
MPU	**125** - φ125mm **160** - φ160mm **210** - φ210mm **250** - φ250mm **300** - φ300mm **360** - φ360mm	N - Nitrilerubber S - Silicone rubber	Null - Bare suction cup G1/4-IG - G1/4 female thread G1/2-IG - G1/2 female thread Note: IG=Female thread When a bare suction cup is selected, the "Touch valve" option will be disabled.	Null - Standard TV - Touch Sensing valve–equipped

Model specifications of MPU flat suction cup

Model specification	G1/4-IG	G1/2-IG
MPU 125...	●	-
MPU 160...	-	●
MPU 210...	-	●
MPU 250...	-	●
MPU 300...	-	●
MPU 360...	-	●

Model specifications of MPU flat suction cup spare fittings and elements

Model	Sensing valve model
MPU 125...	MTV-G1/4-AG
MPU 160...	MTV-G1/4-AG
MPU 210...	MTV-G1/4-AG
MPU 250...	MTV-G1/2-AG
MPU 300...	MTV-G1/2-AG
MPU 360...	MTV-G1/2-AG

Technical parameters of MPU flat suction cup

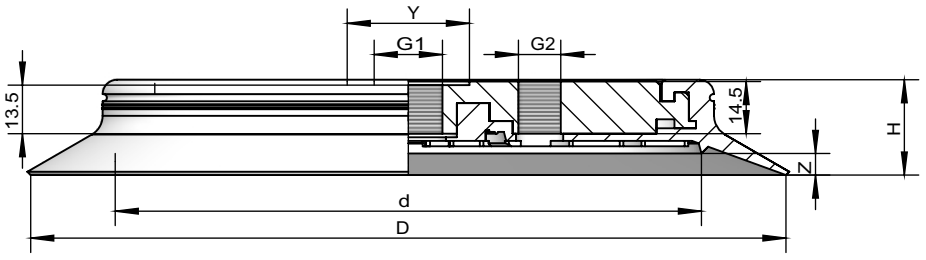
Model	Suction force Ds N	Suction force d2 N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Weight g
MPU 125 □ G1/4-IG(TV)	660	365	70	220	200
MPU 160 □ G1/2-IG(TV)	1090	600	123	350	400
MPU 210 □ G1/2-IG(TV)	1870	1250	226	750	800
MPU 250 □ G1/2-IG(TV)	2650	1940	332	2200	1360
MPU 300 □ G1/2-IG(TV)	3810	3010	492	3500	2200
MPU 360 □ G1/2-IG(TV)	5500	4730	1170	3000	3660

Large flat suction cup

MPU flat suction cup

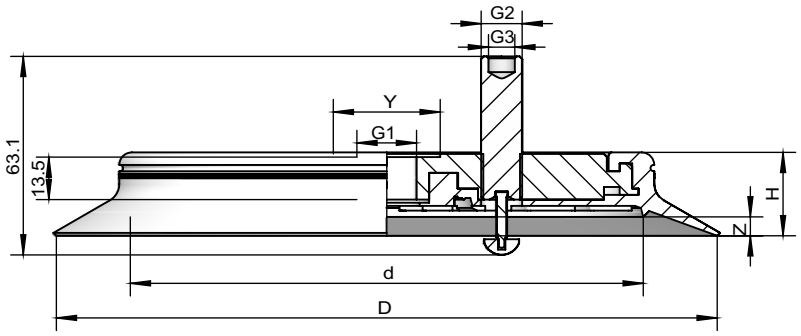
Design parameters of MPU flat suction cup

MPU 125 to 360...



Model	Size (mm)						
	D	d	H	Z	Y	G1	G2
MPU 125 ☐ G1/4-IG	125	83	26.0	6.7	22	G1/4-IG	G1/4-IG
MPU 160 ☐ G1/2-IG	160	113	26.5	6	34	G1/2-IG	G1/4-IG
MPU 210 ☐ G1/2-IG	210	163	26.5	6	34	G1/2-IG	G1/4-IG
MPU 250 ☐ G1/2-IG	250	203	26.5	6	34	G1/2-IG	G1/2-IG
MPU 300 ☐ G1/2-IG	300	253	26.5	6	34	G1/2-IG	G1/2-IG
MPU 360 ☐ G1/2-IG	360	309	35.5	12	34	G1/2-IG	G1/2-IG

MPU 125 to 360...TV



Model	Size (mm)							
	D	d	H	Z	Y	G1	G2	G3
MPU 125 ☐ G1/4-IG TV	125	83	26.0	6.7	22	G1/4-IG	G1/4-AG	G1/8-IG
MPU 160 ☐ G1/2-IG TV	160	113	26.5	6	34	G1/2-IG	G1/4-AG	G1/8-IG
MPU 210 ☐ G1/2-IG TV	210	163	26.5	6	34	G1/2-IG	G1/4-AG	G1/8-IG
MPU 250 ☐ G1/2-IG TV	250	203	26.5	6	34	G1/2-IG	G1/2-AG	G3/8-IG
MPU 300 ☐ G1/2-IG TV	300	253	26.5	6	34	G1/2-IG	G1/2-AG	G3/8-IG
MPU 360 ☐ G1/2-IG TV	360	309	35.5	12	34	G1/2-IG	G1/2-AG	G3/8-IG

Large flat suction cup

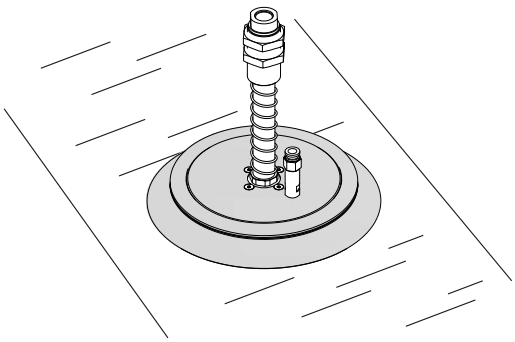
MPC flat suction cup


Wood

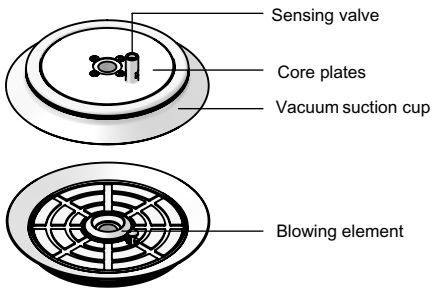

Air permeability



Application of MPC flat suction cup



System design of MPC flat suction cup



Introduction

- Special design of double sealing lip
- Has the property of separating objects.
- Applicable to various Air permeability workpieces such as MDFs, cardboards, etc.
- After stacked Air permeability workpieces are gripped, the workpieces can be detached from the suction cup by blowing compressed air toward the detaching chamber of the suction cup
- Replaceable rubber suction cup

Application

- Handles workpieces with even or slightly deforming surfaces
- When the optional touch valve detects that the product is not in contact with the workpiece, the corresponding vacuum loop can be cut off.
- Workpieces can be detached from the suction cup by blowing compressed air

Structure

- The suction cup core, blowing element and rubber suction cup are designed to be detachable from each other so that the vulnerable elements can be easily replaced.
- Independent functional interfaces equipped
- The optional touch valve can prevent unexpected vacuum leakage

Large flat suction cup

MPC flat suction cup

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MPC flat suction cup purchase guide

MPC 160 N G1/2-IG TV

① ② ③ ④ ⑤

① Product series	② Size specification	③ Material	④ Joint specification	⑤ Special specification
MPC	**160** - φ160mm **210** - φ210mm **250** - φ250mm	N - Nitrilerubber S - Silicone rubber	Null - Bare suction cup G1/2-IG - G1/2 female thread Note: IG=Female thread When a bare suction cup is selected, the "Touch valve" option will be disabled.	Null - Standard TV - Touch Sensing valve–equipped

Model specifications of MPC flat suction cup spare fittings and elements

Model	Blowing element model	Sensing valve model
MPC 160...	MRP-B XJXK	MTV-G1/4-AG
MPC 210...	MRP-B XJXK	MTV-G1/4-AG
MPC 250...	MRP-B XJXK	MTV-G1/2-AG

Technical parameters of MPC flat suction cup

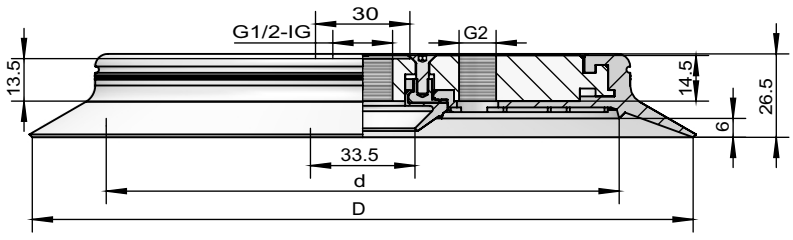
Model	Suction force **Ds N**	Suction force **d2 N**	Internal Volume **cm^3**	Weight **g**
MPC 160 □ G1/2-IG(TV)	975	475	98	450
MPC 210 □ G1/2-IG(TV)	1760	1125	202	900
MPC 250 □ G1/2-IG(TV)	2540	1815	310	1330

Large flat suction cup

MPC flat suction cup

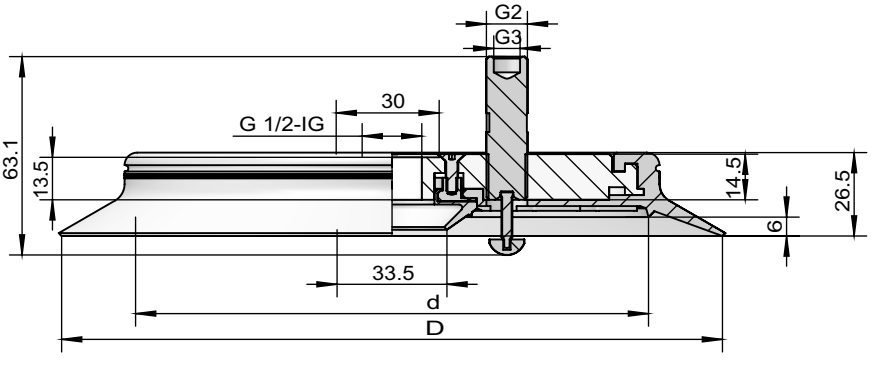
Design parameters of MPC flat suction cup

MPC 160 to 250...



Model	Size (mm)		
	D	d	G2
MPC 160 ☐ G1/2-IG	160	113	G1/4-IG
MPC 210 ☐ G1/2-IG	210	163	G1/4-IG
MPC 250 ☐ G1/2-IG	250	203	G1/2-IG

MPC 160 to 250...TV



Model	Size (mm)			
	D	d	G2	G3
MPC 160 ☐ G1/2-IG TV	160	113	G1/4-AG	G1/8-IG
MPC 210 ☐ G1/2-IG TV	210	163	G1/4-AG	G1/8-IG
MPC 250 ☐ G1/2-IG TV	250	203	G1/2-AG	G1/8-IG

Flat suction cup for workpieces with rough surfaces

MRP flat suction cup



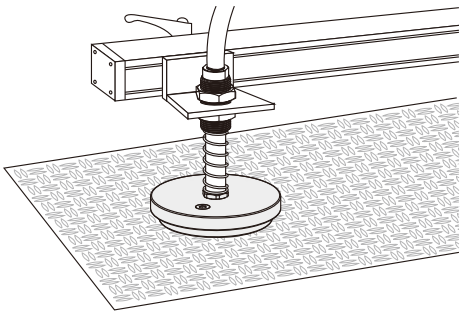
Sheet metal Glass Wood



Introduction

- The sealing ring is made of soft EPDM foam
- A large-area internal support structure
- Small internal volume
- With skid resistance to prevent permanent deformation of thin-walled workpieces
- Short operating cycle time
- Applicable to workpieces of different sizes and in different shapes

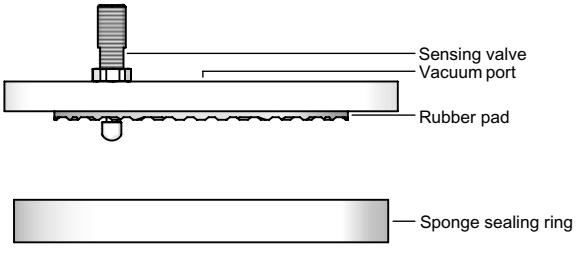
Application of MRP flat suction cup



Application

- Handles various workpieces with uneven surfaces, such as embossed steel plates, decorative glass, rough slates, wood boards, etc.
- When detecting that the product is not in contact with the workpiece, the optional sensitive touch valve can turn off the vacuum chamber to prevent vacuum leakage

System design of MRP flat suction cup



Structure

- Consists of an EPDM sealing ring and an aluminum holding plate
- The sealing ring is securely embedded in the holding plate
- Replaceable sealing ring
- The rubber pad under the holding plate protects the workpieces form being broken

Flat suction cup for workpieces with rough surfaces

MRP flat suction cup

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MRP flat suction cup purchase guide

MRP 55 EPDM G1/4-IG TV

① ② ③ ④ ⑤

① Product series	② Size specification	③ Material	④ Joint specification	⑤ Special specification
MRP	**55** - φ55mm **80** - φ80mm **110** - φ110mm **160** - φ160mm **200** - φ200mm **250** - φ250mm Note: When 55 and 80 are selected, the touch valve option will be disabled.	EPDM - Ethylene propylene diene monomer	G1/4-IG - G1/4 female thread G1/2-IG - G1/2 female thread Note: IG=Female thread	Null - Standard TV - Touch Sensing valve–equipped

Model specifications of MPC flat suction cup

选型规格	G1/4-IG	G1/2-IG
MRP 55...	●	-
MRP 80...	●	-
MRP 110...	-	●
MRP 160...	-	●
MRP 200...	-	●
MRP 250...	-	●

Model specifications of MRP flat suction cup spare fittings and elements

Model	Sealing Ring Model	Sensing valve model
MRP 55...	DR-MRP 55	-
MRP 80...	DR-MRP 80	-
MRP 110...	DR-MRP 110	MTV-G1/4-AG
MRP 160...	DR-MRP 160	MTV-G1/4-AG
MRP 200...	DR-MRP 200	MTV-G1/4-AG
MRP 250...	DR-MRP 250	MTV-G1/4-AG

Technical parameters of MRP flat suction cup

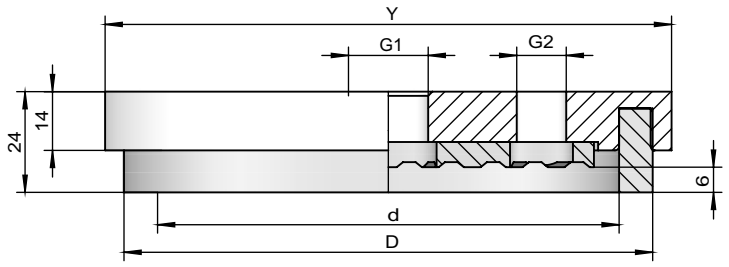
Model	Suction force Ds N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Weight g
MRP 55 EPDM G1/4-IG(TV)	121	15	250	170
MRP 80 EPDM G1/4-IG(TV)	256	32	300	280
MRP 110 EPDM G1/2-IG(TV)	471	67	–	450
MRP 160 EPDM G1/2-IG(TV)	1060	128	–	960
MRP 200 EPDM G1/2-IG(TV)	1700	198	–	1425
MRP 250 EPDM G1/2-IG(TV)	2714	305	–	2240

Flat suction cup for workpieces with rough surfaces

MRP flat suction cup

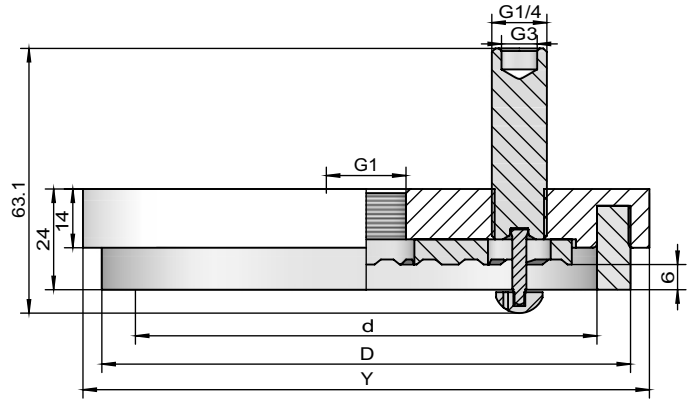
Design parameters of MRP flat suction cup

MRP 55 to 250...



Model	Size (mm)				
	Y	**D**	**d**	**G1**	**G2**
MRP 55 EPDM G1/4-IG	80	70	55	G1/4-IG	-
MRP 80 EPDM G1/4-IG	105	95	80	G1/4-IG	-
MRP 110 EPDM G1/2-IG	135	125	110	G1/2-IG	G1/4-IG
MRP 160 EPDM G1/2-IG	185	175	160	G1/2-IG	G1/4-IG
MRP 200 EPDM G1/2-IG	225	215	200	G1/2-IG	G1/4-IG
MRP 250 EPDM G1/2-IG	275	265	250	G1/2-IG	G1/4-IG

MRP 110 to 250...TV



Model	Size (mm)				
	D	**d**	**Y**	**G1**	**G3**
MRP 110 EPDM G1/2-IG TV	135	125	110	G1/2-IG	G1/8-IG
MRP 160 EPDM G1/2-IG TV	185	175	160	G1/2-IG	G1/8-IG
MRP 200 EPDM G1/2-IG TV	225	215	200	G1/2-IG	G1/8-IG
MRP 250 EPDM G1/2-IG TV	275	265	250	G1/2-IG	G1/8-IG

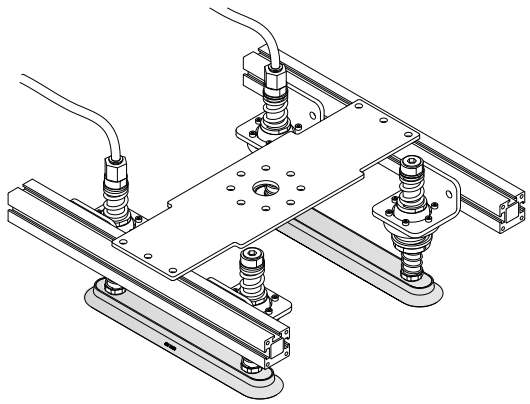
Fat suction cup (oval)

MPLO flat suction cup

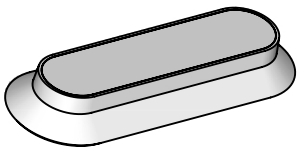




Application of MPLO flat suction cup



System design of MPLO flat suction cup



Introduction

- Oval flat suction cup
- A support structure in the bottom
- Large load capacity, flexible installation
- Applicable to workpieces of different sizes and in different shapes
- No permanent deformation of handled thin-walled workpieces

Application

- Handles long thin workpieces such as profiled materials, door and window frames, etc.
- When handling a long thin workpiece, the oblong suction cup generates a suction force stronger than that generated by the round suction cup

Structure

- The robust well-wearing MPLO flat suction cup has a single lip seal
- The lip seal is fixed to the holding plate by vulcanization
- The NBR lip seal almost leaves no trace on the workpiece

Fat suction cup (oval)

MPLO flat suction cup

AMILA

MPLO flat suction cup purchase guide

MPLO 100×30 N

① ② ③

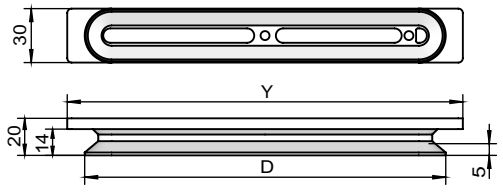
① Product series	② Size specification		③ Material
MPLO	**100×30** - (L×W) 100×30mm	**250×55** - (L×W) 250×55mm	N-nitrile rubber
	200×30 - (L×W) 200×30mm	**300×55** - (L×W) 300×55mm	
	300×30 - (L×W) 300×30mm	**300×100** - (L×W) 300×100mm	
	150×55 - (L×W) 150×55mm	**370×80** - (L×W) 370×80mm	
	200×55 - (L×W) 200×55mm		

Technical parameters of MPLO flat suction cup

Model	Suction force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Weight g
MPLO 100x30 N	126	13	25	200
MPLO 200x30 N	260	26	30	400
MPLO 300x30 N	400	39	30	600
MPLO 150x55 N	340	60	75	215
MPLO 200x55 N	465	80	50	320
MPLO 250x55 N	590	100	50	425
MPLO 300x55 N	710	120	50	530
MPLO 300x100 N	1250	165	175	1275
MPLO 370x80 N	1270	240	100	1200

Design parameters of MPLO flat suction cup

MPLO 100×30 to 300×30



Model	Size (mm)	
	D	**Y**
MPLO 100×30 N	99	120
MPLO 200×30 N	201	220
MPLO 300×30 N	300	320

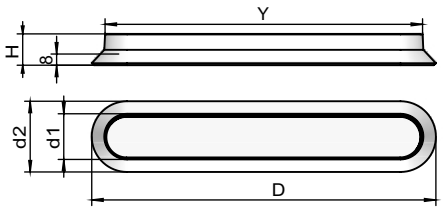
Fat suction cup (oval)

MPLO flat suction cup

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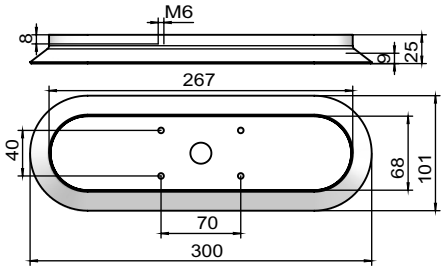
Design parameters of MPLO flat suction cup

MPLO 370X80，150X55to300X55



Model	Size (mm)				
	D	d2	d1	Y	H
MPLO 150×55 N	150	55	32	125	19.4
MPLO 200×55 N	200	53	31	178	22
MPLO 250×55 N	246	51	32	225	22
MPLO 300×55 N	300	54	31	274	21
MPLO 370×80 N	374	81	54	347	26

MPLO 300×100



Bellows suction cup (round)

FGA bellows suction cup (1.5 folds)


Universal


Packaging

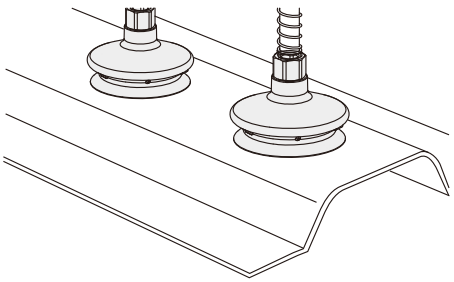

Injection molding



Introduction

- 1.5-fold bellows suction cup
- Optional special materials with high temperature resistance
- Applicable to handling high-temperature workpieces
- Joints can be reused so that costs to customers are reduced
- Applicable to workpieces of different sizes and in different shapes

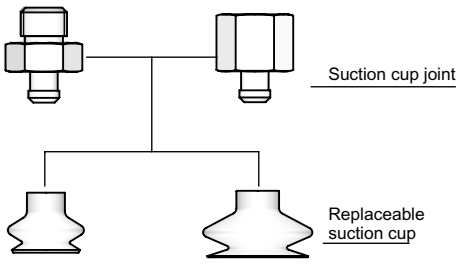
Application of FGA bellows suction cup



Application

- Handles workpieces with uneven surfaces, such as cartons, cardboards, workpieces with curved surfaces, pipes, etc.
- High-temperature injection-molded parts, metal plates, glass, etc.
- Handles smooth wood boards, smooth steel plates, etc.

System design of FGA bellows suction cup



Structure

- All suction cup joints are straight joints
- The suction cup with a diameter of no less than 25 mm has a support structure in its bottom

Bellows suction cup (round)

FGA bellows suction cup (1.5 folds)

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FGA bellows suction cup (1.5 folds) purchase guide

FGA 11 N G1/8-AG

① ② ③ ④

① Product series	② Size specification		③ Material	④ Joint specification
FGA	**11** - Φ11mm	**33** - Φ33mm	HT1 - High temperature resistant	Null - Bare suction cup
	14 - Φ14mm	**43** - Φ43mm	N - nitrile rubber	M5-AG - M5 male thread
	16 - Φ16mm	**53** - Φ53mm	S - silicone rubber	G1/8-AG - G1/8 male thread
	20 - Φ20mm	**63** - Φ63mm		G1/8-IG -G1/8 female thread
	22 - Φ22mm	**78** - Φ78mm		G1/4-AG - G1/4 male thread
	25 - φ25mm			G1/4-IG -G1/4 female thread

Note: AG=Male thread IG=Female thread

Model specifications of FGA bellows suction cup (1.5 folds)

Model specification	M5-AG	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG
FGA 11...	●	●	●	-	-
FGA 14...	●	●	●	-	-
FGA 16...	●	●	●	-	-
FGA 20...	●	●	●	-	-
FGA 22...	●	●	●	-	-
FGA 25...	-	●	●	-	-
FGA 33...	-	-	-	●	●
FGA 43...	-	-	-	●	●
FGA 53...	-	-	-	●	●
FGA 63...	-	-	-	●	●
FGA 78...	-	-	-	●	●

FGA bellows suction cup spare joint model specifications

Fitting Name	Model Specification		Applicable Suction Cup
	AG- Male thread	**IG**-Female thread	
Suction cup joint	S016 M5-AG		FGA 11 FGA 14 FGA 16 FGA 20 FGA 22
	S016 G1/8-AG	S016 G1/8-IG	FGA 11 FGA 14 FGA 16 FGA 20 FGA 22 FGA 25
	S018 G1/4-AG	S018 G1/4-IG	FGA 33 FGA 43 FGA 53 FGA 63
	S019 G1/4-AG	S019 G1/4-IG	FGA 78

Bellows suction cup (round)

FGA bellows suction cup (1.5 folds)

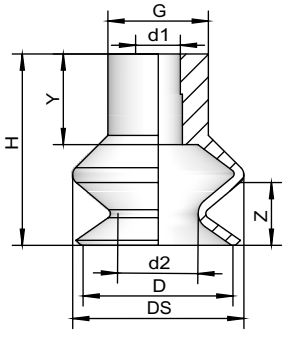
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Technical parameters of FGA bellows suction cup (1.5 folds)

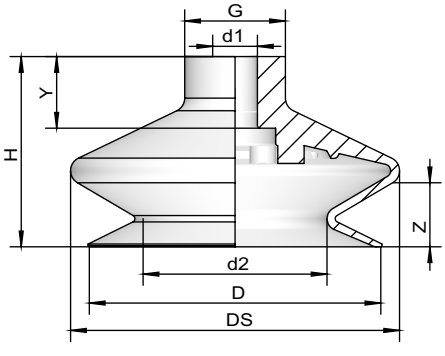
Model	Suction force N	Detaching force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Joint series
FGA 11...	0.95	3.8	0.225	10	S016
FGA 14...	1.20	5.0	0.420	13	S016
FGA 16...	2.30	6.7	0.750	20	S016
FGA 20...	4.70	10.7	1.150	30	S016
FGA 22...	5.70	15.2	1.400	25	S016
FGA 25...	5.30	17.3	3.150	20	S016
FGA 33...	13.60	39.6	4.750	40	S018
FGA 43...	22.80	64.5	9.250	60	S018
FGA 53...	51.30	95.0	26.250	75	S018
FGA 63...	85.00	135.0	39.000	75	S018
FGA 78...	137.40	218.0	76.000	70	S019

Spare FGA suction cup pad design parameters

FGA 11 to 25



FGA 33 to 78



Model	Size (mm)							
	D	**DS**	**d1**	**d2**	**H**	**Y**	**Z**	**G**
FGA 11	10.4	12.0	4.5	5.1	16.0	9.3	4	10
FGA 14	12.8	13.7	4.5	5.0	15.5	8.5	5	10
FGA 16	15.6	17.0	4.5	8.4	19.2	9.3	7	10
FGA 20	18.1	19.9	4.5	11.0	15.2	8.7	5	10
FGA 22	21.5	24.2	4.5	11.7	19.0	9.1	6	10
FGA 25	22.5	25.0	4.5	9.9	23.0	8.9	9	10
FGA 33	30.0	36.0	8.0	17.0	27.0	14.0	9	18
FGA 43	38.0	45.9	8.0	21.9	27.6	17.1	10	18
FGA 53	50.0	58.6	8.0	33.0	34.0	19.0	12	18
FGA 63	60.0	67.0	8.0	44.5	34.0	18.8	14	18
FGA 78	74.0	83.0	11.8	54.0	47.0	31.4	14	25

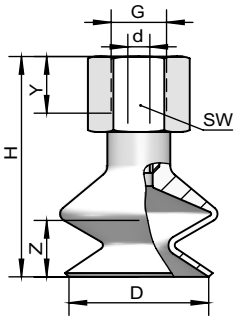
Bellows suction cup (round)

FGA bellows suction cup (1.5 folds)

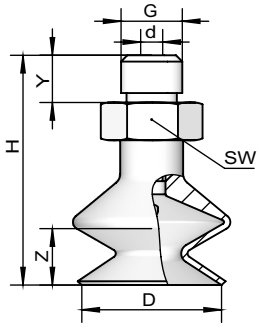
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Spare FGA suction cup pad design parameters

FGA 11 to 78 IG



FGA 11 to 78 AG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
FGA 11 G1/8-IG	10.4	3.5	28	8.0	4	14	G1/8-IG
FGA 11 G1/8-AG	10.4	3.5	29.5	7.5	4	14	G1/8-AG
FGA 11 M5-AG	10.4	2.5	26.0	5	4	7	M5-AG
FGA 14 G1/8-IG	12.8	3.5	27.5	8.0	5	14	G1/8-IG
FGA 14 G1/8-AG	12.8	3.5	29.0	7.5	5	14	G1/8-AG
FGA 14 M5-AG	12.8	2.5	25.5	5	5	7	M5-AG
FGA16 G1/8-IG	15.6	3.5	31.2	8.0	7	14	G1/8-IG
FGA16 G1/8-AG	15.6	3.5	32.7	7.5	7	14	G1/8-AG
FGA16 M5-AG	15.6	2.5	29.2	5	7	7	M5-AG
FGA 20 G1/8-IG	18.1	3.5	27.2	8.0	5	14	G1/8-IG
FGA 20 G1/8-AG	18.1	3.5	28.7	7.5	5	14	G1/8-AG
FGA 20 M5-AG	18.1	2.5	25.2	5	5	7	M5-AG
FGA 22 G1/8-IG	21.5	3.5	31.0	8.0	6	14	G1/8-IG
FGA 22 G1/8-AG	21.5	3.5	32.5	7.5	6	14	G1/8-AG
FGA 22 M5-AG	21.5	2.5	29.0	5	6	7	M5-AG
FGA 25 G1/8-IG	22.5	3.5	35.0	8.0	9	14	G1/8-IG
FGA 25 G1/8-AG	22.5	3.5	36.5	7.5	9	14	G1/8-AG
FGA 33 G1/4-IG	30.0	4.4	42.0	12.0	9	17	G1/4-IG
FGA 33 G1/4-AG	30.0	4.4	42.0	11.0	9	17	G1/4-AG
FGA 43 G1/4-IG	38.0	4.4	42.6	12.0	10	17	G1/4-IG
FGA 43 G1/4-AG	38.0	4.4	42.6	11.0	10	17	G1/4-AG
FGA 53 G1/4-IG	50.0	4.4	49.0	12.0	12	17	G1/4-IG
FGA 53 G1/4-AG	50.0	4.4	49.0	11.0	12	17	G1/4-AG
FGA 63 G1/4-IG	60.0	4.4	49.0	12.0	14	17	G1/4-IG
FGA 63 G1/4-AG	60.0	4.4	49.0	11.0	14	17	G1/4-AG
FGA 78 G1/4-IG	74.0	8.2	62.0	12.0	14	21	G1/4-IG
FGA 78 G1/4-AG	74.0	8.2	64.0	11.0	14	21	G1/4-AG

Bellows suction cup (round)

FG bellows suction cup (2.5 folds)

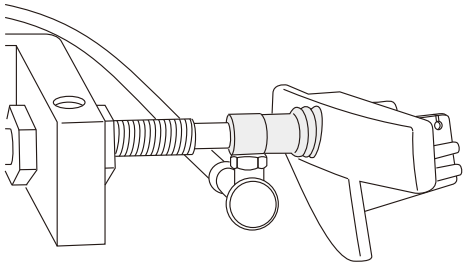
Packaging | Injection molding | 3C product



Introduction

- 2.5-fold bellows structure
- Soft and taper edge
- Strong suction force, and good buffering for suctioning workpieces with uneven surfaces
- Good sealing, long compression stoke, and strong adaptability to uneven surfaces
- Applicable to workpieces of different sizes and in different shapes

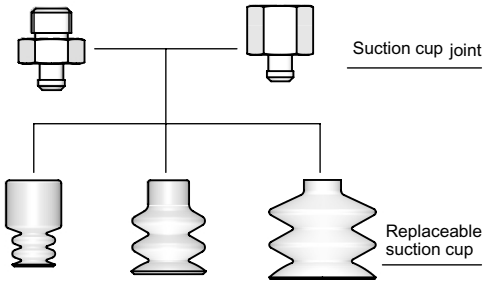
Application of FG bellows suction cup (2.5 folds)



Application

- Handles fragile workpieces such as electronic components, injection-molded parts, etc.
- Handles workpieces with uneven surfaces, such as paper, pipes, etc.

System design of FG bellows suction cup (2.5 folds)



Structure

- All suction cup joints are straight joints
- The suction cup with a diameter of no less than 52mm has a support structure in its bottom

Bellows suction cup (round)

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FG bellows suction cup (2.5 folds)

FG bellows suction cup (2.5 folds) purchase guide

FG 5 N M5-AG

① ② ③ ④

① Product series	② Size specification		③ Material	④ Joint specification
FG	**5** - φ5mm	**25** - φ25mm	HT1 - High temperature resistant	Null—Bare suction cup
	7 - φ7mm	**32** - φ32mm	N - nitrile rubber	M5-AG - M5 male thread
	9 - φ9mm	**42** - φ42mm	S - silicone rubber	M5-IG - M5 female thread
	12 - φ12mm	**52** - φ52mm		G1/8-AG - G1/8 male thread
	14 - φ14mm	**62** - φ62mm		G1/8-IG - G1/8 female thread
	18 - φ18mm	**88** - φ88mm		G1/4-AG - G1/4 male thread
	20 - φ20mm			G1/4-IG - G1/4 female thread
				Note: AG=Male thread IG=Female thread

Model specifications of FG bellows suction cup (2.5 folds)

Model specification	M5-AG	M5-IG	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG
FG 5...	●	●	-	-	-	-
FG 7...	●	-	●	●	-	-
FG 9...	●	-	●	●	-	-
FG 12...	●	-	●	●	-	-
FG 14...	●	-	●	●	-	-
FG 18...	●	-	●	●	-	-
FG 20...	●	-	●	●	-	-
FG 25...	-	-	●	●	-	-
FG 32...	-	-	-	-	●	●
FG 42...	-	-	-	-	●	●
FG 52...	-	-	-	-	●	●
FG 62...	-	-	-	-	●	●
FG 88...	-	-	-	-	●	●

FG bellows suction cup spare joint model specifications

Fitting Name	Model Specification		Applicable Suction Cup
	AG- Male thread	**IG**-Female thread	
Suction cup joint	S017 M5-AG	S017 M5-IG	FG 5
	S016 M5-AG		FG 7 FG 9 FG 12 FG 14 FG 18 FG 20
	S016 G1/8-AG	S016 G1/8-IG	FG 7 FG 9 FG 12 FG 14 FG 18 FG 20 FG 25
	S018 G1/4-AG	S018 G1/4-IG	FG 32 FG 42 FG 52 FG 62
	S019 G1/4-AG	S019 G1/4-IG	FG 88

Bellows suction cup (round)

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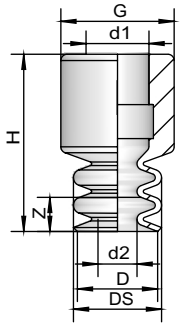
FG bellows suction cup (2.5 folds)

Technical parameters of FG bellows suction cup (2.5 folds)

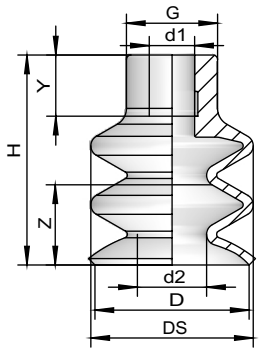
Model	Suction force N	Detaching force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Joint series
FG 5...	0.1	0.8	0.033	8	S017
FG 7...	0.1	0.9	0.043	8	S016
FG 9...	0.7	2.3	0.150	10	S016
FG 12...	0.9	3.5	0.600	13	S016
FG 14...	1.2	5.7	0.975	15	S016
FG 18...	2.3	8.5	1.350	20	S016
FG 20...	3.8	12.1	2.000	30	S016
FG 25...	4.5	19.0	5.400	30	S016
FG 32...	12.0	36.9	10.000	35	S018
FG 42...	13.6	44.0	19.500	75	S018
FG 52...	27.0	96.0	62.000	75	S018
FG 62...	39.6	137.0	72.500	75	S018
FG 88...	45.2	286.0	165.000	100	S019

Spare FG suction cup pad design parameters

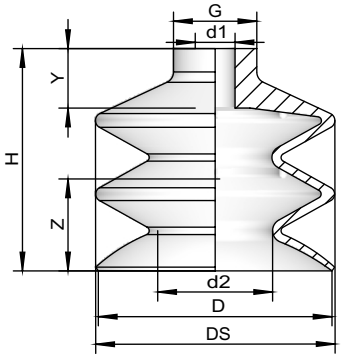
FG 5-9



FG 12 to 25



FG 32 to 88



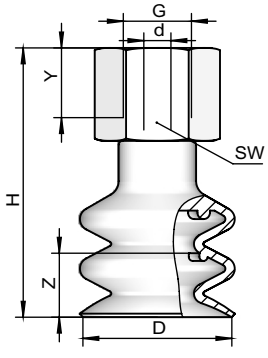
Model	Size (mm)							
	D	**DS**	**d1**	**d2**	**H**	**Y**	**Z**	**G**
FG 5	5.0	6.0	3.5	2.6	14.0	-	2	7
FG 7	5.9	6.5	4.5	1.8	14.0	-	3	9
FG 9	9.0	8.9	4.5	4.1	15.0	-	3	9
FG 12	12.0	12.0	4.5	5.0	21.0	9	6	10
FG 14	14.5	13.9	4.5	5.4	22.8	9	9	10
FG 18	17.2	17.8	4.5	8.0	22.6	9	9	10
FG 20	20.0	20.0	4.5	10.5	22.1	9	9	10
FG 25	23.0	25.0	4.5	10.0	34.0	9	18	10
FG 32	32.0	32.6	8.0	16.0	37.5	17	15	18
FG 42	42.6	43.5	8.0	17.8	46.0	17	20	18
FG 52	52.5	52.0	8.0	24.6	48.7	-	25	18
FG 62	62.2	62.0	8.0	29.5	54.0	-	29	18
FG 88	89.0	88.2	11.7	33.0	86.5	26	34	25

Bellows suction cup (round)

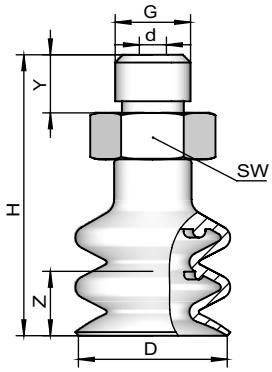
FG bellows suction cup (2.5 folds)

Spare FG suction cup pad design parameters

FG 5 to 88 IG



FG 5 to 88 AG

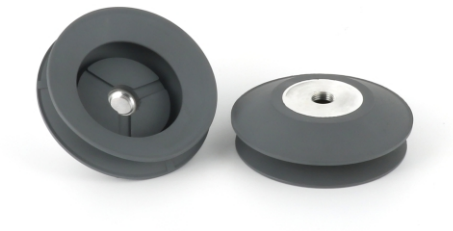


Model	Size (mm)						
	D	d	H	Y	Z	SW	G
FG 5 M5-IG	5.0	2.0	24.0	5.5	3.0	8	M5-IG
FG 5 M5-AG	5.0	2.0	24.0	5.0	3.0	8	M5-AG
FG 7 G1/8-IG	5.9	3.5	26.0	8.5	3.0	14	G1/8-IG
FG 7 G1/8-AG	5.9	3.5	27.5	7.5	3.0	14	G1/8-AG
FG 7 M5-AG	5.9	2.5	24.0	5.0	3.0	7	M5-AG
FG 9 G1/8-IG	9.0	3.5	27.0	8.5	3.0	14	G1/8-IG
FG 9 G1/8-AG	9.0	3.5	28.5	7.5	3.0	14	G1/8-AG
FG 9 M5-AG	9.0	2.5	25.0	5.0	3.0	7	M5-AG
FG 12 G1/8-IG	12.0	3.5	33.0	8.5	7.0	14	G1/8-IG
FG 12 G1/8-AG	12.0	3.5	34.5	7.5	7.0	14	G1/8-AG
FG 12 M5-AG	12.0	2.5	31.0	5.0	7.0	7	M5-AG
FG 14 G1/8-IG	14.5	3.5	34.0	8.5	9.0	14	G1/8-IG
FG 14 G1/8-AG	14.5	3.5	35.5	7.5	9.0	14	G1/8-AG
FG 14 M5-AG	14.5	2.5	32.0	5.0	9.0	7	M5-AG
FG 18 G1/8-IG	17.2	3.5	34.0	8.5	9.0	14	G1/8-IG
FG 18 G1/8-AG	17.2	3.5	35.5	7.5	9.0	14	G1/8-AG
FG 18 M5-AG	17.2	2.5	32.0	5.0	9.0	7	M5-AG
FG 20 G1/8-IG	20.0	3.5	34.0	8.5	9.0	14	G1/8-IG
FG 20 G1/8-AG	20.0	3.5	35.5	7.5	9.0	14	G1/8-AG
FG 20 M5-AG	20.0	2.5	32.0	5.0	9.0	7	M5-AG
FG 25 G1/8-IG	23.0	3.5	46.0	8.5	18.0	14	G1/8-IG
FG 25 G1/8-AG	23.0	3.5	47.5	7.5	18.0	14	G1/8-AG
FG 32 G1/4-IG	32.0	4.4	52.5	12.0	15.0	17	G1/4-IG
FG 32 G1/4-AG	32.0	4.4	52.5	11.0	15.0	17	G1/4-AG
FG 42 G1/4-IG	42.6	4.4	61.0	12.0	20.0	17	G1/4-IG
FG 42 G1/4-AG	42.6	4.4	61.0	11.0	20.0	17	G1/4-AG
FG 52 G1/4-IG	52.5	4.4	64.0	12.0	25.0	17	G1/4-IG
FG 52 G1/4-AG	52.5	4.4	64.0	11.0	25.0	17	G1/4-AG
FG 62 G1/4-IG	62.2	4.4	70.0	12.0	29.0	17	G1/4-IG
FG 62 G1/4-AG	62.2	4.4	70.0	11.0	29.0	17	G1/4-AG
FG 88 G1/4-IG	89.0	8.0	103.0	12.0	34.0	21	G1/4-IG
FG 88 G1/4-AG	89.0	8.0	103.0	11.0	34.0	21	G1/4-AG

Bellows suction cup

FSGPL bellows suction cup (1.5 folds)

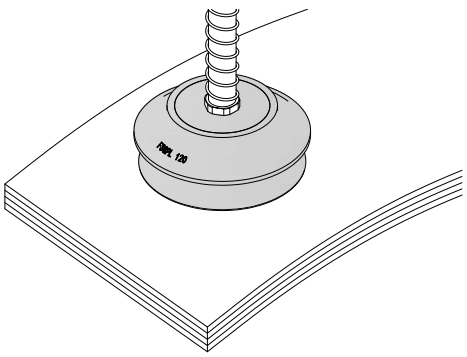




Introduction

- Large diameter suitable for handling of large heavy vulnerable workpieces
- The soft taper lip seal is highly adaptable to workpieces with curved or uneven surfaces
- The 1.5-fold bellows structure can compensate the workpiece height difference and offer good buffering during contact with the workpiece
- With the support structure in the bottom, the handled workpiece will not be deformed permanently or broken
- The rubber elements and metal connecting plate are integrated

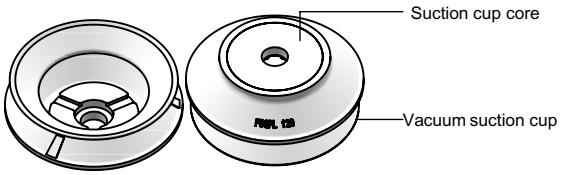
Application of FSGPL bellows suction cup



Application

- Handles cartons, metal sheets, wood boards, and glass and ceramic products
- Handles workpieces with uneven surfaces (the soft lip seal has a high adaptability)

System design of FSGPL bellows suction cup



Structure

- The FSGPL suction cup has a 1.5-fold bellows structure. The suction cup pad is fixed to the aluminum holding plate by vulcanization
- FSGPL bellows suction cup (1.5 folds) A female threaded interface in the aluminum holding plate
- A rubber pad under the holding plate

Bellows suction cup

FSGPL bellows suction cup (1.5 folds)

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FSGPL bellows suction cup (1.5 folds) purchase guide

FSGPL 100 N G1/2-IG

① ② ③ ④

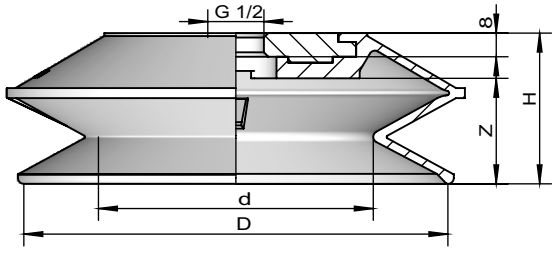
① Product series	② Size specification	③ Material	④ Joint specification
FSGPL	**100** - Φ100mm **120** - Φ120mm **150** - Φ150mm **200** - Φ200mm **250** - Φ250mm	N - nitrile rubber	G1/2-IG - G1/2 female thread Note: IG=Female thread

Technical parameters of FSGPL bellows suction cup (1.5 folds)

Model	Suction force N	Detaching force N	Internal Volume cm^3	Weight
FSGPL 100 N G1/2-IG	150	250	150	151
FSGPL 120 N G1/2-IG	280	400	296	351
FSGPL 150 N G1/2-IG	370	600	450	433
FSGPL 200 N G1/2-IG	850	950	877	1017
FSGPL 250 N G1/2-IG	1610	2000	1678	2000

Design parameters of FSGPL bellows suction cup (1.5 folds)

FSGPL □ N G1/2-IG



Model	Size (mm)			
	H	D	d	Z
FSGPL 100 N G1/2-IG	43.3	96.1	57.2	29.1
FSGPL 120 N G1/2-IG	51	118.2	79.3	35.7
FSGPL 150 N G1/2-IG	51	143.5	93	35.7
FSGPL 200 N G1/2-IG	54	191	137	37.2
FSGPL 250 N G1/2-IG	60	239.3	186	43

Flat suction cup for sheet metal

MAF flat suction cup

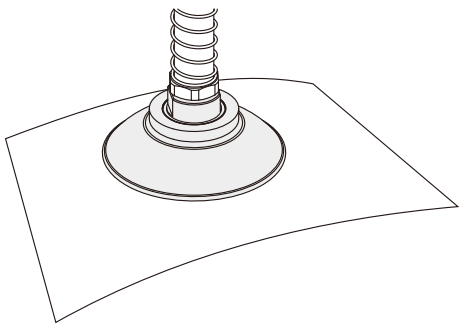




Introduction

- A large-area internal support structure
- Can effectively increase the friction between the suction cup and the workpiece
- Applicable to workpieces of different sizes and in different shapes

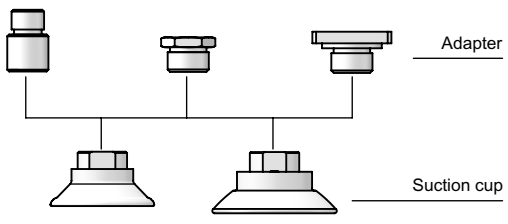
Application of MAF flat suction cup



Application

- Handles metal sheets with greasy surfaces
- No deformation of handled metal sheets or aluminum plates
- Handles inputted and outputted materials during machining with CNC or machine tool
- Handles bent sheet metal with slightly curved surface
- Handles stamped metal automotive parts

System design of MAF flat suction cup



Structure

- Robust and hard-wearing suction cup MAF is made of the N material with sealing lip , special designed in grooves and an internal support
- The joint is fixed to the suction cup by vulcanization (with high strength)
- A plurality of optional suction cup connection modes

Flat suction cup for sheet metal

MAF flat suction cup

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MAF flat suction cup purchase guide

MAF 30 N45 G1/4-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MAF	**30** - φ30mm	N45 - nitrile rubber - 45°	G1/4-AG – G1/4 male thread
	40 - φ40mm	N60 - nitrile rubber - 60°	G1/4-IG - G1/4 female thread
	50 - φ50mm	HT1 - High temperature resistant - 60°	G3/8-IG - G3/8 female thread
	60 - φ60mm		M10×1.5-AG - M10×1.5 male thread
	80 - φ80mm		M14×1.5-AG - M14×1.5 male thread
	100 - φ100mm		RA rectangular adapter
			Note: AG=Male thread IG=Female thread

Model specifications of MAF flat suction cup

Model specification	G1/4-AG	G1/4-IG	G3/8-IG	M10×1.5-AG	M14×1.5-AG	RA rectangular adapter
MAF 30...	●	●	●	●	●	●
MAF 40...	●	●	●	●	●	●
MAF 50...	●	●	●	●	●	●
MAF 60...	●	●	●	●	●	●
MAF 80...	●	●	●	●	●	●
MAF 100...	●	●	●	●	●	●

Technical parameters of MAF flat suction cup

Model	Suction force N	Lateral force N	Lateral force applied to greasy surface N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)
MAF 30...	38	30	28	1.7	40
MAF 40...	69	52	50	3.8	50
MAF 50...	100	80	76	7.0	65
MAF 60...	150	105	85	13.0	75
MAF 80...	272	205	180	36.0	100
MAF 100...	430	310	300	58.0	135

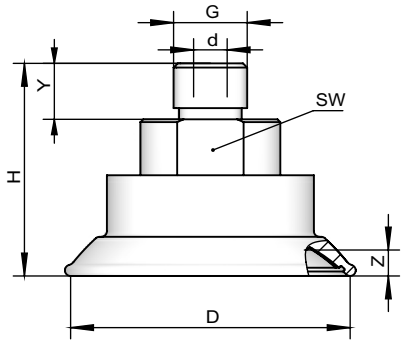
Flat suction cup for sheet metal

MAF flat suction cup

AMILA

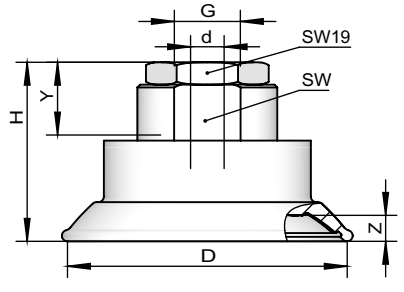
Design parameters of MAF flat suction cup

MAF 30 to 100 AG



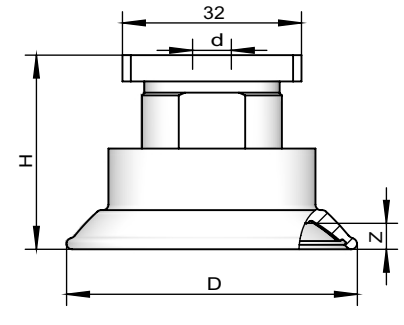
Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAF 30 ☐ G1/4-AG	34	4	30	10	3.0	17	G1/4-AG
MAF 30 ☐ M10x1.5-AG	34	4	32	12	3.0	17	M10x1.5-AG
MAF 30 ☐ M14x1.5-AG	34	4	34	12	3.0	17	M14x1.5-AG
MAF 40 ☐ G1/4-AG	46	4	32	10	4.0	17	G1/4-AG
MAF 40 ☐ M10x1.5-AG	46	4	34	12	4.0	17	M10x1.5-AG
MAF 40 ☐ M14x1.5-AG	46	4	34	12	4.0	17	M14x1.5-AG
MAF 50 ☐ G1/4-AG	56	6	38	10	5.0	22	G1/4-AG
MAF 50 ☐ M10x1.5-AG	56	4	40	12	5.0	22	M10x1.5-AG
MAF 50 ☐ M14x1.5-AG	56	6	40	12	5.0	22	M14x1.5-AG
MAF 60 ☐ G1/4-AG	67	6	41	10	6.0	22	G1/4-AG
MAF 60 ☐ M10x1.5-AG	67	4	43	12	6.0	22	M10x1.5-AG
MAF 60 ☐ M14x1.5-AG	67	6	43	12	6.0	22	M14x1.5-AG
MAF 80 ☐ G1/4-AG	89	6	45	10	7.6	22	G1/4-AG
MAF 80 ☐ M10x1.5-AG	89	4	47	12	7.6	22	M10x1.5-AG
MAF 80 ☐ M14x1.5-AG	89	6	47	12	7.6	22	M14x1.5-AG
MAF 100 ☐ G1/4-AG	110	6	46	10	9.5	22	G1/4-AG
MAF 100 ☐ M10x1.5-AG	110	4	48	12	9.5	22	M10x1.5-AG
MAF 100 ☐ M14x1.5-AG	110	6	48	12	9.5	22	M14x1.5-AG

MAF 30 to 100 IG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAF 30 ☐ G1/4-IG	34	4	20.0	12	3.0	17	G1/4-IG
MAF 30 ☐ G3/8-IG	34	4	36.0	9	3.0	22	G3/8-IG
MAF 40 ☐ G1/4-IG	46	4	22.0	12	4.0	17	G1/4-IG
MAF 40 ☐ G3/8-IG	46	4	38.0	9	4.0	22	G3/8-IG
MAF 50 ☐ G1/4-IG	56	6	33.0	15	5.0	22	G1/4-IG
MAF 50 ☐ G3/8-IG	56	6	28.0	15	5.0	22	G3/8-IG
MAF 60 ☐ G1/4-IG	67	6	36.0	15	6.0	22	G1/4-IG
MAF 60 ☐ G3/8-IG	67	6	31.0	15	6.0	22	G3/8-IG
MAF 80 ☐ G1/4-IG	89	6	40.0	20	7.6	22	G1/4-IG
MAF 80 ☐ G3/8-IG	89	6	35.0	15	7.6	22	G3/8-IG
MAF 100 ☐ G1/4-IG	110	6	41.0	20	9.5	22	G1/4-IG
MAF 100 ☐ G3/8-IG	110	6	36.0	15	9.5	22	G3/8-IG

MAF 30 to 100 RA (rectangular adapter)



Model	Size (mm)			
	D	d	H	Z
MAF 30 ☐ RA	34	4	23.2	3.0
MAF 40 ☐ RA	46	4	25.0	4.0
MAF 50 ☐ RA	56	6	27.5	5.0
MAF 60 ☐ RA	67	6	30.5	6.0
MAF 80 ☐ RA	89	6	34.5	7.6
MAF 100 ☐ RA	110	6	35.5	9.5

Bellows suction cup for sheet metal (1.5-folds)

MAB bellows suction cup

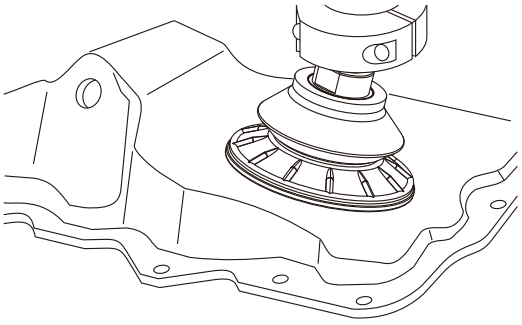




Introduction

- 1.5-fold bellows structure
- Optimum adaptation and sealing to curved workpieces, good damping during placement on workpiece
- Can effectively increase the friction between the suction cup and the workpiece
- Applicable to workpieces of different sizes and in different shapes

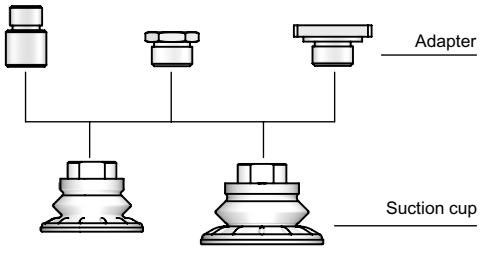
Application of MAB bellows suction cup



Application

- Quickly handles sheet metal in a short cycle time
- No deformation of handled metal sheets or aluminum plates
- Designed special patterns and grooves inside the suction cup can prevent sheet metal with greasy surface from skidding sideways
- Handles stamped metal automotive parts

System design of MAB bellows suction cup



Structure

- Robust and hard-wearing suction cup MAB 1.5 flods is made of the N material with sealing lip , special designed in grooves and inner support
- The joint is fixed to the suction cup by vulcanization (with high strength)
- A plurality of optional suction cup connection modes

Bellows suction cup for sheet metal (1.5-folds)

AMILA

MAB bellows suction cup

MAB bellows suction cup purchase guide

MAB 30 N45 G1/4-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MAB	**30** - φ30mm **40** - φ40mm **50** - φ50mm **60** - φ60mm **80** - φ80mm **100** - φ100mm	N45 - nitrile rubber - 45° N60 - nitrile rubber - 60° HT1 - High temperature resistant - 60°	G1/4-AG – G1/4 male thread G1/4-IG - G1/4 female thread G3/8-IG - G3/8 female thread M10×1.5-AG - M10×1.5 male thread M14×1.5-AG - M14×1.5 male thread RA rectangular adapter Note: AG=Male thread IG=Female thread

Model specifications of MAB bellows suction cup

Model specification	G1/4-AG	G1/4-IG	G3/8-IG	M10×1.5-AG	M14×1.5-AG	RA rectangular adapter
MAB 30...	●	●	●	●	●	●
MAB 40...	●	●	●	●	●	●
MAB 50...	●	●	●	●	●	●
MAB 60...	●	●	●	●	●	●
MAB 80...	●	●	●	●	●	●
MAB 100...	●	●	●	●	●	●

Technical parameters of MAB bellows suction cup

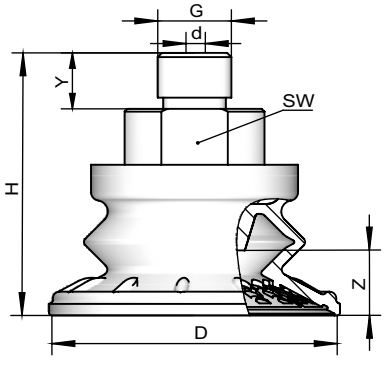
Model	Suction force N	Detaching force N	Lateral force N	Lateral force applied to greasy surface N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)
MAB 30...	22	33	30	13	5.9	40
MAB 40...	38	59	36	33	7.0	40
MAB 50...	53	87	55	52	11.5	50
MAB 60...	82	130	82	77	24.0	65
MAB 80...	135	221	145	140	56.5	75
MAB 100...	190	357	220	214	92.5	90

Bellows suction cup for sheet metal (1.5-folds)

MAB bellows suction cup

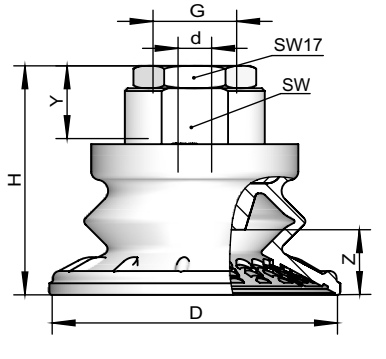
Design parameters of MAB bellows suction cup

MAB 30to 100 AG



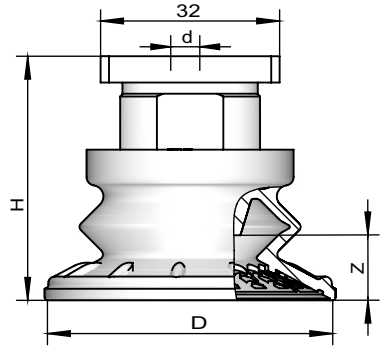
Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAB 30 ☐ G1/4-AG	32	4.0	38	10.0	9.0	17	G1/4-AG
MAB 30 ☐ M10x1.5-AG	32	4.0	40	12.0	9.0	17	M10x1.5-AG
MAB 30 ☐ M14x1.5-AG	32	4.0	40	12.0	9.0	17	M14x1.5-AG
MAB 40 ☐ G1/4-AG	42	4.0	39	10.0	10.0	17	G1/4-AG
MAB 40 ☐ M10x1.5-AG	42	4.0	41	12.0	10.0	17	M10x1.5-AG
MAB 40 ☐ M14x1.5-AG	42	4.0	41	12.0	10.0	17	M14x1.5-AG
MAB 50 ☐ G1/4-AG	52	6.0	47	10.0	11.5	22	G1/4-AG
MAB 50 ☐ M10x1.5-AG	52	4.0	49	12.0	11.5	22	M10x1.5-AG
MAB 50 ☐ M14x1.5-AG	52	6.0	49	12.0	11.5	22	M14x1.5-AG
MAB 60 ☐ G1/4-AG	63	6.0	51.5	10.0	14.5	22	G1/4-AG
MAB 60 ☐ M10x1.5-AG	63	4.0	53.5	12.0	14.5	22	M10x1.5-AG
MAB 60 ☐ M14x1.5-AG	63	6.0	53.5	12.0	14.5	22	M14x1.5-AG
MAB 80 ☐ G1/4-AG	83	6.0	60	10.0	22.0	22	G1/4-AG
MAB 80 ☐ M10x1.5-AG	83	4.0	62	12.0	22.0	22	M10x1.5-AG
MAB 80 ☐ M14x1.5-AG	83	6.0	62	12.0	22.0	22	M14x1.5-AG
MAB 100 ☐ G1/4-AG	103	6.0	67	10.0	26.0	22	G1/4-AG
MAB 100 ☐ M10x1.5-AG	103	4.0	69	12.0	26.0	22	M10x1.5-AG
MAB 100 ☐ M14x1.5-AG	103	6.0	69	12.0	26.0	22	M14x1.5-AG

MAB 30to 100 IG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAB 30 ☐ G1/4-IG	32	4.0	28	12.0	9.0	17	G1/4-IG
MAB 30 ☐ G3/8-IG	32	4.0	44	9.5	9.0	22	G3/8-IG
MAB 40 ☐ G1/4-IG	42	4.0	29	12.0	10.0	17	G1/4-IG
MAB 40 ☐ G3/8-IG	42	4.0	44	9.5	10.0	22	G3/8-IG
MAB 50 ☐ G1/4-IG	52	6.0	42	20.0	11.5	22	G1/4-IG
MAB 50 ☐ G3/8-IG	52	6.0	37	15.0	11.5	22	G3/8-IG
MAB 60 ☐ G1/4-IG	63	6.0	46.5	20.0	14.5	22	G1/4-IG
MAB 60 ☐ G3/8-IG	63	6.0	41.5	15.0	14.5	22	G3/8-IG
MAB 80 ☐ G1/4-IG	83	6.0	55	20.0	22.0	22	G1/4-IG
MAB 80 ☐ G3/8-IG	83	6.0	50	15.0	22.0	22	G3/8-IG
MAB 100 ☐ G1/4-IG	103	6.0	62	20.0	26.0	22	G1/4-IG
MAB 100 ☐ G3/8-IG	103	6.0	57	15.0	26.0	22	G3/8-IG

MAB 30 to 100 RA (rectangular adapter)



Model	Size (mm)			
	D	d	H	Z
MAB 30 ☐ RA	32	4.0	31.2	9.0
MAB 40 ☐ RA	42	4.0	31.2	10.0
MAB 50 ☐ RA	52	6.0	36.5	11.5
MAB 60 ☐ RA	63	6.0	41	14.5
MAB 80 ☐ RA	83	6.0	49.5	22.0
MAB 100 ☐ RA	103	6.0	56.5	26.0

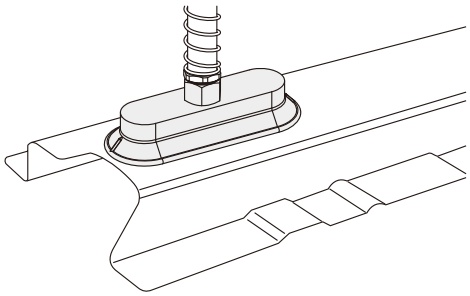
Flat suction cup for handling sheet metal

MAOF flat suction cup (oval)

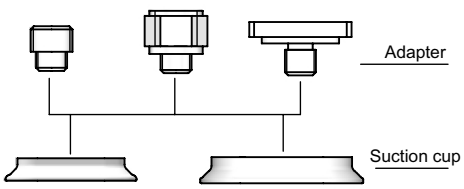




System design of MAOF flat suction cup



System design of MAOF flat suction cup



Introduction

- An oval flat suction cup structure
- A large-area internal support structure with patterns
- Complete sizes
- Grips long bar-shaped workpieces
- Can effectively increase the friction between the suction cup and the workpiece
- Applicable to workpieces of different sizes and in different shapes

Application

- Quickly handles long metal bars in a short cycle
- No deformation of handled metal sheets or aluminum plates
- Handles stamped metal automotive parts

Structure

- The joint is integrated with the suction cup

Flat suction cup for handling sheet metal

AMILA

MAOF flat suction cup (oval)

MAOF flat suction cup purchase guide

MAOF 50×16 N45 G1/4-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MAOF	**50×16** - (L×W) 50×16mm **60×23** - (L×W) 60×23mm **90×30** - (L×W) 90×30mm **80×40** - (L×W) 80×40mm **100×50** - (L×W) 100×50mm **120×60** - (L×W) 120×60mm	N45 - nitrile rubber - 45° N60 - nitrile rubber - 60° HT1 - High temperature resistant - 60°	G1/4-AG – G1/4 male thread G1/4-IG - G1/4 female thread G3/8-IG - G3/8 female thread M10×1.5-AG - M10×1.5 male thread M14×1.5-AG - M14×1.5 male thread RA rectangular adapter Note: AG=Male thread IG=Female thread

Model specifications of MAOF flat suction cup

Model specification	G1/4-AG	G1/4-IG	G3/8-IG	M10×1.5-AG	M14×1.5-AG	RA rectangular adapter
MAOF 50×16...	●	●	●	●	●	●
MAOF 60×23...	●	●	●	●	●	●
MAOF 90×30...	●	●	●	●	●	●
MAOF 80×40...	●	●	●	●	●	●
MAOF 100×50...	●	●	●	●	●	●
MAOF 120×60...	●	●	●	●	●	●

Technical parameters of MAOF flat suction cup

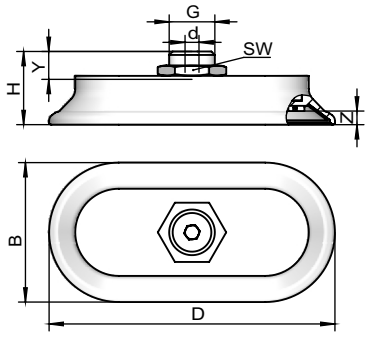
Model	Suction force N	Lateral force N	Lateral force applied to greasy surface	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)
MAOF 50x16...	31	24	12	2.0	8
MAOF 60x23...	57	37	33	3.0	20
MAOF 90x30...	122	96	64	7.0	40
MAOF 80x40...	140	110	100	10.7	50
MAOF 100x50...	217	181	121	20.0	75
MAOF 120x60...	312	254	170	35.0	75

Flat suction cup for handling sheet metal

MAOF flat suction cup (oval)

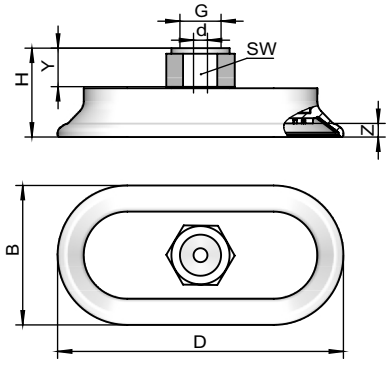
Design parameters of MAOF flat sution cup

MAOF 50 × 16 to 120 × 60 ☐ AG



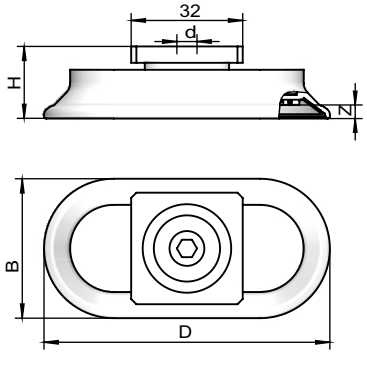
Model	Size (mm)							
	D	B	d	H	Y	Z	SW	G1
MAOF 50x16 ☐ G1/4-AG	50	16	5	34	8	3	17	G1/4-AG
MAOF 50x16 ☐ M10x1.5-AG	50	16	4	36	10	3	16	M10x1.5-AG
MAOF 50x16 ☐ M14x1.5-AG	50	16	5	38	10	3	22	M14x1.5-AG
MAOF 60x23 ☐ G1/4-AG	62	23	5	26	8	3	17	G1/4-AG
MAOF 60x23 ☐ M10x1.5-AG	62	23	4	28	10	3	16	M10x1.5-AG
MAOF 60x23 ☐ M14x1.5-AG	62	23	5	30	10	3	22	M14x1.5-AG
MAOF 90x30 ☐ G1/4-AG	92	32	5	27	8	3	17	G1/4-AG
MAOF 90x30 ☐ M10x1.5-AG	92	32	4	29	10	3	16	M10x1.5-AG
MAOF 90x30 ☐ M14x1.5-AG	92	32	5	31	10	3	22	M14x1.5-AG
MAOF 80x40 ☐ G1/4-AG	85	40	5	28	8	4	17	G1/4-AG
MAOF 80x40 ☐ M10x1.5-AG	85	40	4	30	10	4	16	M10x1.5-AG
MAOF 80x40 ☐ M14x1.5-AG	85	40	5	32	10	4	22	M14x1.5-AG
MAOF 100x50 ☐ G1/4-AG	106	50	6	30	8	5	17	G1/4-AG
MAOF 100x50 ☐ M10x1.5-AG	106	50	4	32	10	5	16	M10x1.5-AG
MAOF 100x50 ☐ M14x1.5-AG	106	50	6	34	10	5	22	M14x1.5-AG
MAOF 120x60 ☐ G1/4-AG	128	60	6	32	8	6	17	G1/4-AG
MAOF 120x60 ☐ M10x1.5-AG	128	60	4	34	10	6	16	M10x1.5-AG
MAOF 120x60 ☐ M14x1.5-AG	128	60	6	36	10	6	22	M14x1.5-AG

MAOF 50 × 16 to 120 × 60 ☐ IG



Model	Size (mm)							
	D	B	d	H	Y	Z	SW	G1
MAOF 50x16 ☐ G1/4-IG	50	16	6	33	8	3	17	G1/4-IG
MAOF 50x16 ☐ G3/8-IG	50	16	6	34	9	3	22	G3/8-IG
MAOF 60x23 ☐ G1/4-IG	62	23	6	26	8	3	17	G1/4-IG
MAOF 60x23 ☐ G3/8-IG	62	23	6	26	9	3	22	G3/8-IG
MAOF 90x30 ☐ G1/4-IG	92	32	6	26	8	3	17	G1/4-IG
MAOF 90x30 ☐ G3/8-IG	92	32	6	27	9	3	22	G3/8-IG
MAOF 80x40 ☐ G1/4-IG	85	40	6	28	8	4	17	G1/4-IG
MAOF 80x40 ☐ G3/8-IG	85	40	6	28	9	4	22	G3/8-IG
MAOF 100x50 ☐ G1/4-IG	106	50	8	30	8	5	17	G1/4-IG
MAOF 100x50 ☐ G3/8-IG	106	50	8	31	9	5	22	G3/8-IG
MAOF 120x60 ☐ G1/4-IG	128	60	8	32	8	6	17	G1/4-IG
MAOF 120x60 ☐ G3/8-IG	128	60	8	33	9	6	22	G3/8-IG

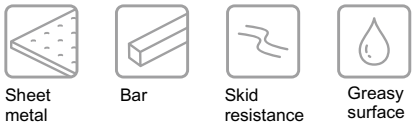
MAOF 50 × 16 to 120 × 60 ☐ RA (rectangular adapter)



Model	Size (mm)				
	D	B	d	H	Z
MAOF 50x16 ☐ RA	50	16	4	29	3
MAOF 60x23 ☐ RA	62	23	4	21	3
MAOF 90x30 ☐ RA	92	32	4	22	3
MAOF 80x40 ☐ RA	85	40	4	23	4
MAOF 100x50 ☐ RA	106	50	6	25	5
MAOF 120x60 ☐ RA	128	60	6	27	6

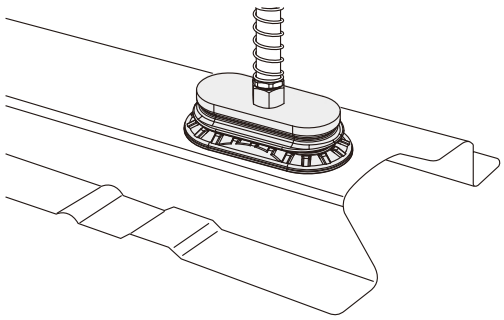
Bellows suction cup for sheet metal

MAOB oval bellows suction cup (1.5 folds)

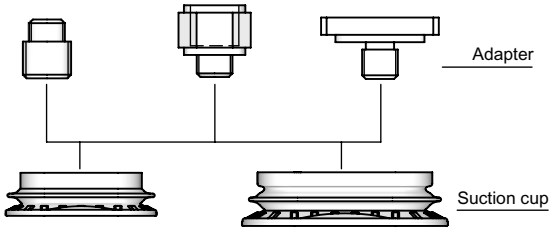




Application of MAOB oval bellows suction cup



System design of MAOB oval bellows suction cup



Introduction

- A 1.5-fold oval bellows structure
- A large-area internal support structure with patterns
- Complete sizes
- Applicable to gripping long bar-shaped workpieces with even surfaces or surfaces curved to a certain degree
- Can effectively increase the friction between the suction cup and the workpiece
- Applicable to workpieces of different sizes and in different shapes

Application

- Quickly handles long thin metal pieces in a short cycle
- No deformation of handled metal sheets or aluminum plates
- Handles stamped metal automotive parts

Structure

- A 1.5-fold bellows structure designed
- The joint is designed to be in integrated with the suction cup

Bellows suction cup for sheet metal

MAOB oval bellows suction cup (1.5 folds)

AMILA

MAOB oval bellows suction cup purchase guide

MAOB 60×30 N45 G1/4-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MAOB	**60×30** - (L×W) 60×30mm **80×40** - (L×W) 80×40mm **110×55** - (L×W) 110×55mm	N45 - nitrile rubber - 45° N60 - nitrile rubber - 60° HT1 - High temperature resistant - 60°	G1/4-AG – G1/4 male thread G1/4-IG - G1/4 female thread G3/8-IG - G3/8 female thread M10×1.5-AG - M10×1.5 male thread M14×1.5-AG - M14×1.5 male thread RA rectangular adapter Note: AG=Male thread IG=Female thread

Model specifications of MAOB oval bellows suction cup

Model specification	G1/4-AG	G1/4-IG	G3/8-IG	M10-AG	M14×1.5-AG	RA rectangular adapter
MAOB 60×30...	●	●	●	●	●	●
MAOB 80×40...	●	●	●	●	●	●
MAOB 110×55...	●	●	●	●	●	●

Technical parameters of MAOB oval bellows suction cup

Model	Suction force N	Detaching force N	Lateral force N	Lateral force applied to greasy surface N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)
MAOB 60x30...	38	55	57	52	9.6	30
MAOB 80x40...	65	100	100	95	20.6	40
MAOB 110x55...	110	185	180	161	50.8	50

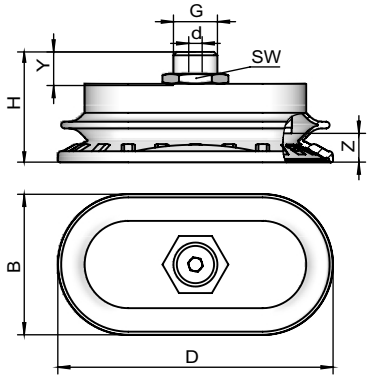
Bellows suction cup for sheet metal

MAOB oval bellows suction cup (1.5 folds)

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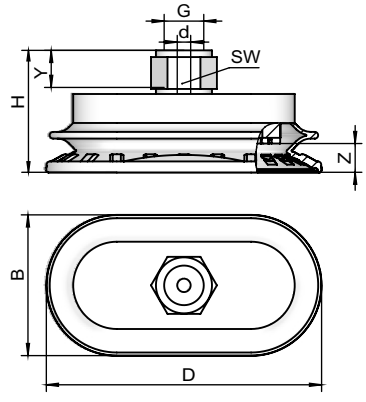
Design parameters of MAOB oval bellows suction cup

MAOB 60 × 30 to 110 × 55 ☐ AG



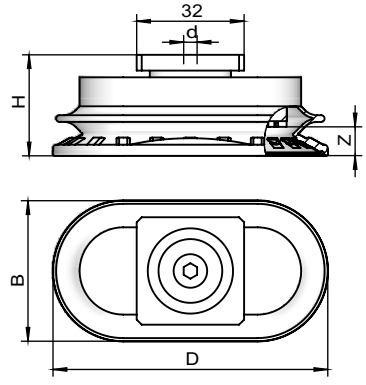
Model	Size (mm)							
	D	B	d	H	Y	Z	SW	G
MAOB 60x30 ☐ G1/4-AG	62	32	5	35	8	7	17	G1/4-AG
MAOB 60x30 ☐ M10x1.5-AG	62	32	4	37	10	7	16	M10×1.5-AG
MAOB 60x30 ☐ M14x1.5-AG	62	32	5	39	10	7	22	M14×1.5-AG
MAOB 80x40 ☐ G1/4-AG	82	43	5	37.7	8	9	17	G1/4-AG
MAOB 80x40 ☐ M10x1.5-AG	82	43	4	39.7	10	9	16	M10×1.5-AG
MAOB 80x40 ☐ M14x1.5-AG	82	43	5	41.7	10	9	22	M14×1.5-AG
MAOB 110x55 ☐ G1/4-AG	114	59	6	43.5	8	13	17	G1/4-AG
MAOB 110x55 ☐ M10x1.5-AG	114	59	4	45.5	10	13	16	M10×1.5-AG
MAOB 110x55 ☐ M14x1.5-AG	114	59	6	47.5	10	13	22	M14×1.5-AG

MAOB 60 × 30 to 110 × 55 ☐ IG



Model	Size (mm)							
	D	B	d	H	Y	Z	SW	G
MAOB 60x30 ☐ G1/4-IG	62	32	6	34.5	8	7	17	G1/4-IG
MAOB 60x30 ☐ G3/8-IG	62	32	6	35	9	7	22	G3/8-IG
MAOB 80x40 ☐ G1/4-IG	82	43	6	37.2	8	9	17	G1/4-IG
MAOB 80x40 ☐ G3/8-IG	82	43	6	37.7	9	9	22	G3/8-IG
MAOB110x55 ☐ G1/4-IG	114	59	8	43	8	13	17	G1/4-IG
MAOB 110x55 ☐ G3/8-IG	114	59	8	43.5	9	13	22	G3/8-IG

MAOB 60 × 30 to 110 × 55 ☐ RA (rectangular adapter)

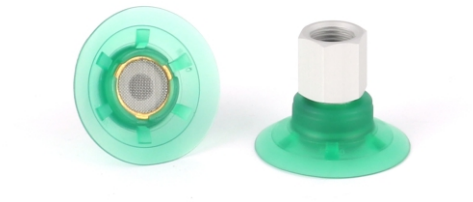


Model	Size (mm)				
	D	B	d	H	Z
MAOB 60x30 ☐ RA	62	32	4	30	7
MAOB 80x40 ☐ RA	82	43	4	32.7	9
MAOB 110x55 ☐ RA	114	59	4	38.5	13

Flat suction cup for packaging

MF flat suction cup

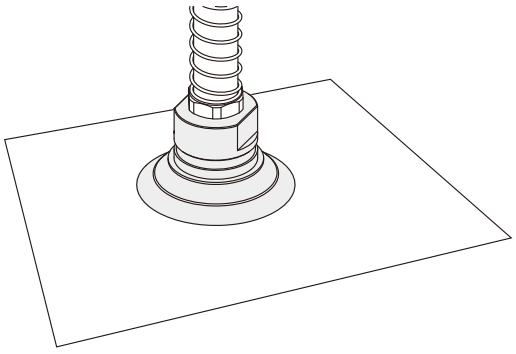
Packaging Long life



Introduction

- Support and filtration structures in the bottom
- Complete sizes
- No permanent deformation of handled thin-walled workpieces
- Applicable to workpieces of different sizes and in different shapes

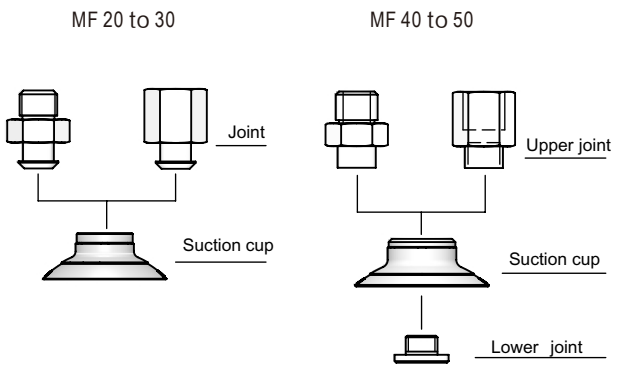
Application of MF flat suction cup



Application

- Applicable to handling cartons or cardboards
- Suitable for carton handling or handling performed by packaging machines
- Suitable for stacking and unstacking
- The high wear resistance of the TPE material suitable for large-load applications

System design of MF flat suction cup



Structure

- The joint is designed to be detachable from the suction cup
- The suction cup has a screen filter

Flat suction cup for packaging

MF flat suction cup

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MF flat suction cup purchase guide

MF 20 TPE G1/8-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MF	**20** - φ20mm **30** - φ30mm **40** - φ40mm **50** - φ50mm	TPE - A material with high wear resistance - 70°	Null - Bare suction cup G1/8-AG - G1/8 male thread G1/8-IG - G1/8 female thread G1/4-AG - G1/4 male thread G1/4-IG - G1/4 female thread Note: AG=Male thread IG=Female thread

Model specifications of MF flat suction cup

Model specification	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG
MF 20 TPE □	●	●	-	-
MF 30 TPE □	●	●	-	-
MF 40 TPE □	-	-	●	●
MF 50 TPE □	-	-	●	●

MF flat suction cup fitting model specifications

Fitting Name	Model Specification		Applicable Suction Cup
	AG- Male thread	**IG**-Female thread	
Suction cup joint	SC 040 G1/8-AG	SC 040 G1/8-IG	MF 20、30
	SC 050 G1/4-AG	SC 050 G1/4-IG	MF 40、50

Fitting Name	Model Specification	Applicable Suction Cup
Filtering sheet	GL-11	MF 20、30
	GL-18	MF 40、50

Technical parameters of MF flat suction cup

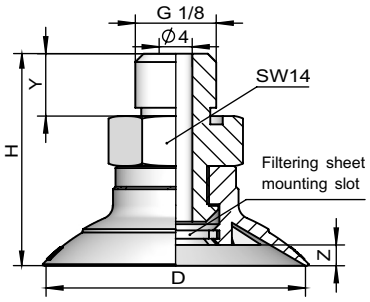
Model	Suction force N	Detaching force N	Lateral force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Weight g
MF 20 TPE...	16.0	19.2	10.5	1.0	25	1.4
MF 30 TPE...	29.5	35.3	22.5	2.3	45	2.2
MF 40 TPE...	49.5	62.5	25.0	5.1	75	4.5
MF 50 TPE...	74.2	87.4	44.0	7.9	100	5.8

Flat suction cup for packaging

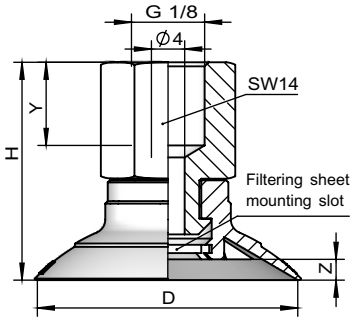
MF flat suction cup

Design parameters of MF flat suction cup

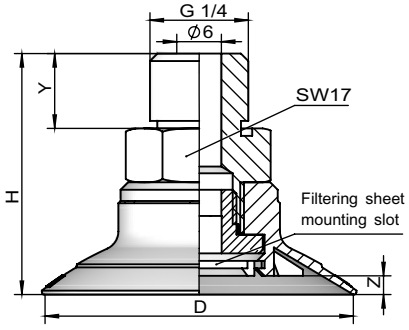
MF 20-30 ...AG



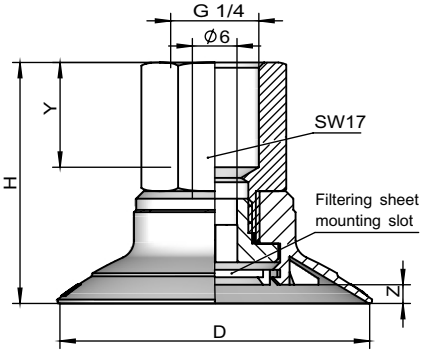
MF 20-30...IG



MF 40-50...AG



MF 40-50...IG



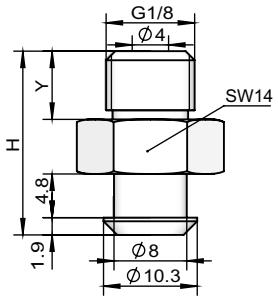
Model	Size (mm)			
	D	**H**	**Y**	**Z**
MF 20 TPE G1/8-AG	21.4	24.5	7.5	2
MF 20 TPE G1/8-IG	21.4	25	8	2
MF 30 TPE G1/8-AG	31.4	25.5	7.5	2.5
MF 30 TPE G1/8-IG	31.4	26	8	2.5
MF 40 TPE G1/4-AG	41.4	32	10	2.5
MF 40 TPE G1/4-IG	41.4	32	12	2.5
MF 50 TPE G1/4-AG	51.4	33	10	3.5
MF 50 TPE G1/4-IG	51.4	33	12	3.5

Flat suction cup for packaging

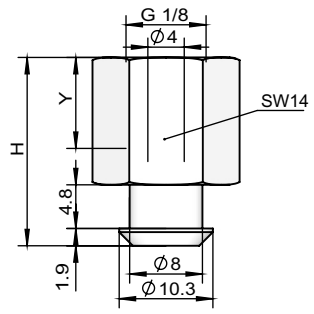
MF flat suction cup

Connector design parameters

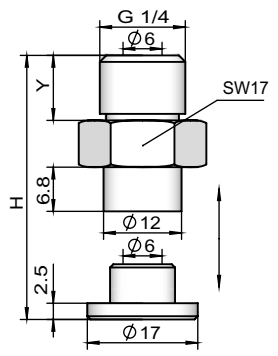
SC 040 G1/8-AG connector, applicable to MF 20-30



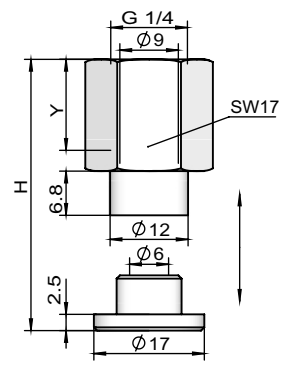
SC 040 G1/8-IG connector, applicable to MF 20-30



SC 050 G1/4-AG connector, applicable to MF 40-50



SC 050 G1/4-AG connector, applicable to MF 40-50



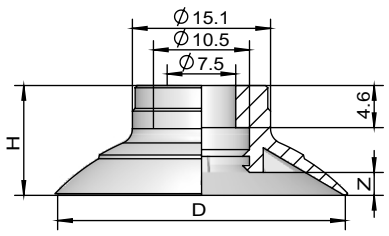
Model	Size (mm)	
	H	Y
SC 040 G1/8-AG	25.2	7.5
SC 040 G1/8-IG	20.7	8
SC 050 G1/4-AG	26.5	10
SC 050 G1/4-IG	26.5	12

Flat suction cup for packaging

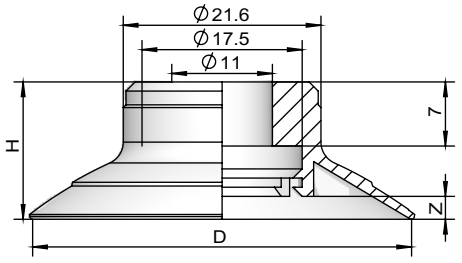
MF flat suction cup

Spare suction cups of MF flat suction cup

MF 20-30□



MF 40-50□



Model	Size (mm)		
	D	**H**	**Z**
MF 20 TPE	21.4	11	2
MF 30 TPE	31.4	12	2.5
MF 40 TPE	41.4	15	2.5
MF 50 TPE	51.4	16	3.5

Bellows suction cup for packaging

MB bellows suction cup

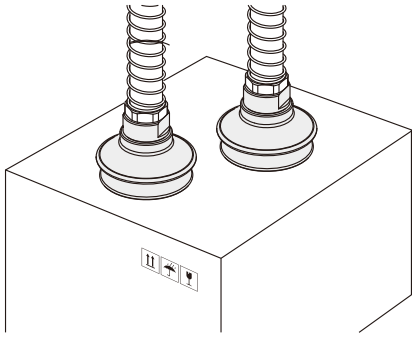
Packaging Long life



Introduction

- 1.5-fold bellows suction cup
- Support and filtration structures inside
- Complete sizes
- Easy attaching to workpieces with uneven surfaces, as well as buffering to a certain degree
- No permanent deformation of handled thin-walled workpieces
- Applicable to workpieces of different sizes and in different shapes

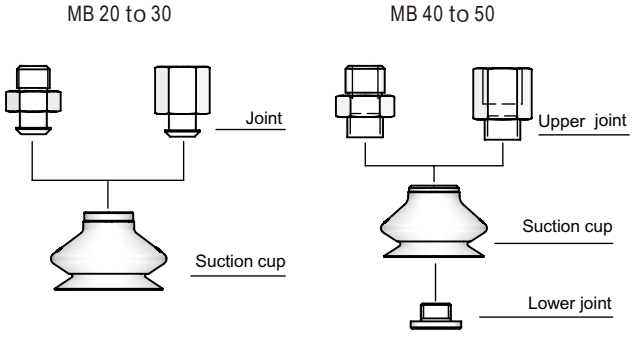
Application of MB bellows suction cup



Application

- Applicable to handling cartons or cardboards
- Suitable for carton handling or handling performed by packaging machines
- Suitable for piling and unpiling
- The high wear resistance of the TPE material suitable for large-load applications

System design of MB bellows suction cup



Structure

- The suction cup has a diameter of φ20－φ50mm. The joint is designed to be detachable from the suction cup.
- The suction cup has a screen filter

Bellows suction cup for packaging

MB bellows suction cup

AMILA

MB bellows suction cup purchase guide

MB 20 TPE G1/8-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MB	**20** - φ20mm **30** - φ30mm **40** - φ40mm **50** - φ50mm	TPE - A material with high wear resistance - 70°	Null - Bare suction cup G1/8-AG - G1/8 male thread G1/8-IG - G1/8 female thread G1/4-AG - G1/4 male thread G1/4-IG - G1/4 female thread Note: AG=Male thread IG=Female thread

Model specifications of MB bellows suction cup

选型规格	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG
MB 20 TPE □	●	●	-	-
MB 30 TPE □	●	●	-	-
MB 40 TPE □	-	-	●	●
MB 50 TPE □	-	-	●	●

MB bellows suction cup fitting model specifications

Fitting Name	Model Specification		Applicable Suction Cup
	AG- Male thread	**IG**-Female thread	
Suction cup joint	SC 040 G1/8-AG	SC 040 G1/8-IG	MB 20、30
	SC 050 G1/4-AG	SC 050 G1/4-IG	MB 40、50

Fitting Name	Model Specification	Applicable Suction Cup
Filtering sheet	GL-11	MB 20、30
	GL-18	MB 40、50

Technical parameters of MB bellows suction cup

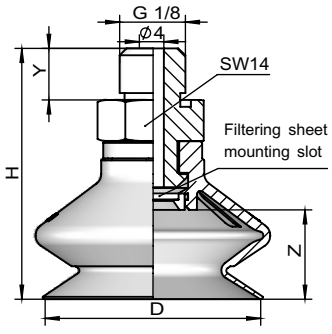
Model	Suction force N	Detaching force N	Lateral force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Weight g
MB 20 TPE...	9.9	16.2	9.8	2.9	20	2.2
MB 30 TPE...	20.7	30.6	15.5	7.8	35	4.2
MB 40 TPE...	35.9	46.8	24.8	18.4	70	9.5
MB 50 TPE...	54.7	72.7	31.2	30.3	100	15.6

Bellows suction cup for packaging

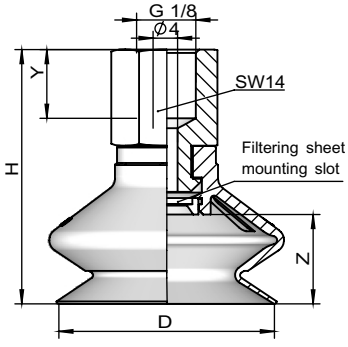
MB bellows suction cup

Design parameters of MB bellows suction cup

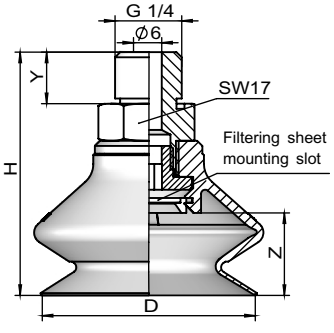
MB 20-30 ...AG



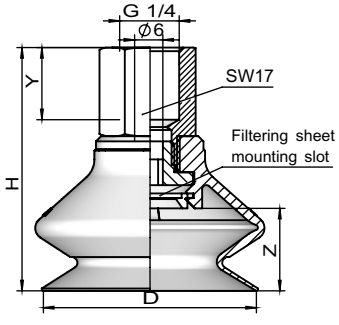
MB 20-30...IG



MB 40-50...AG



MB 40-50...IG



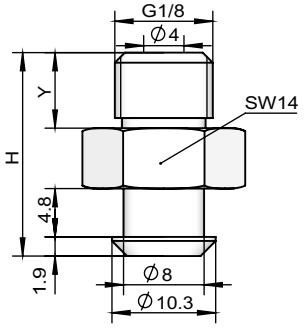
Model	Size (mm)			
	D	H	Y	Z
MB 20 TPE G1/8-AG	21.4	36.5	7.5	8
MB 20 TPE G1/8-IG	21.4	32	8	8
MB 30 TPE G1/8-AG	31.4	41.5	7.5	13
MB 30 TPE G1/8-IG	31.4	37	8	13
MB 40 TPE G1/4-AG	41.4	47	10	16
MB 40 TPE G1/4-IG	41.4	49	12	16
MB 50 TPE G1/4-AG	51.4	47	10	18
MF 50 TPE G1/4-IG	51.4	49	12	18

Bellows suction cup for packaging

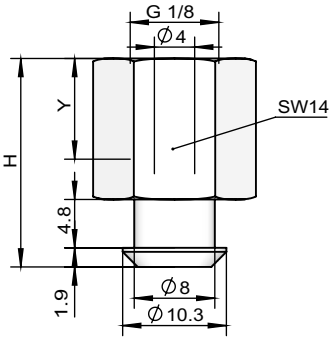
MB bellows suction cup

Connector design parameters

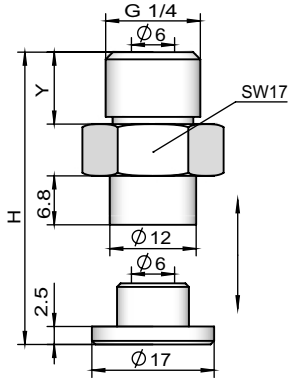
SC 040 G1/8-AG connector, applicable to MB 20-30



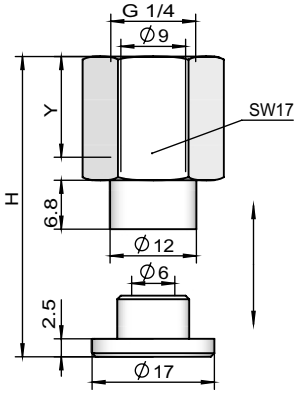
SC 040 G1/8-IG connector, applicable to MB 20-30



SC 050 G1/4-AG connector, applicable to MB 40-50



SC 050 G1/4-AG connector, applicable to MB 40-50



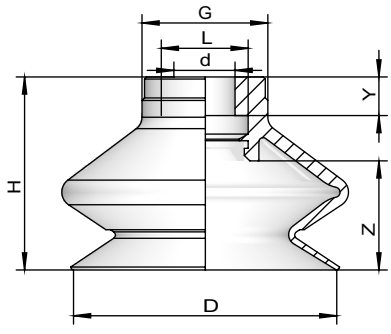
Model	Size (mm)	
	H	Y
SC 040 G1/8-AG	25.2	7.5
SC 040 G1/8-IG	20.7	8
SC 050 G1/4-AG	26.5	10
SC 050 G1/4-IG	26.5	12

Bellows suction cup for packaging

MB bellows suction cup

Spare MB suction cup pad design parameters

MB 20-50□



Model	(mm)						
	D	d	H	Y	L	Z	G
MB 20 TPE	21.4	7.5	18	4.6	10.5	8	15.1
MB 30 TPE	31.4	7.5	23	4.6	10.5	13	15.1
MB 40 TPE	41.4	11	30	7	17.5	16	21.6
MB 50 TPE	51.4	11	32	7	17.5	18	21.6

Combined suction cup for cartons

MGMX combined suction cup for cartons

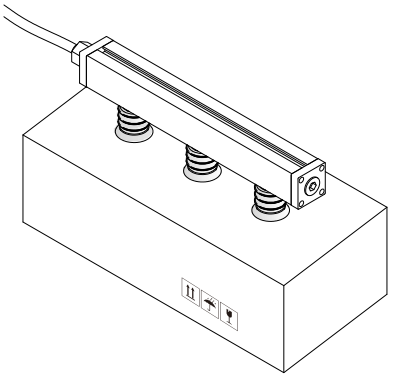
Packaging



Introduction

- 1.5-fold or 2.5-fold bellows suction cup
- Easy attaching to workpieces with uneven surfaces, has a certain degree of buffering effect.
- Good wear resistance, long service life
- Applicable to workpieces of different sizes and in different shapes
- Replaceable lip seal of the suction cup

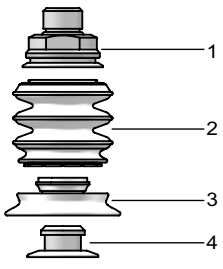
Application of MGMX combined suction cup for cartons



Application

- Handles workpieces with uneven surfaces, such as cartons, etc.
- Applicable to handling cartons or cardboards
- High wear resistance suitable for large-load applications

System design of MGMX combined suction cup for cartons



Structure

- (1) Joint
- (2) Bellows
- (3) Lip seal
- (4) Core

Combined suction cup for cartons

MGMX combined suction cup for cartons

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Guide to purchase of MGMX combined suction cup for cartons

MGMX 28 T50 SK28 A3 G14-AG

① ② ③ ④ ⑤ ⑥

① Product series	② Lip seal size	③ Material and hardness	④ Core size
MGMX	**28** - Φ28mm **39** - Φ39mm **55** - Φ55mm Note: When the lip seal size is 28, the corresponding bellows specification can only be A3.	T50 - TPE50° T30 - TPE30°	**SK28** - Φ28mm **SK39** - Φ39mm **SK55** - Φ55mm Note: The lip seal size corresponding to the core size is the same.

⑤ Bellows specification	⑥ Joint specification
A1 - 1-fold bellows A3 - 3-fold bellows	G18-AG - G1/8 male thread G18-IG - G1/8 female thread G14-AG - G1/4 male thread G14-IG - G1/4 female thread G38-AG - G3/8 male thread G38-IG - G3/8 female thread

Model specifications of MGMX combined suction cup for cartons

Model specification	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG	G3/8-AG	G3/8-IG
MGMX28...A3	●	●	●	●	●	●
MGMX39...A3(A1)	●	●	●	●	●	●
MGMX55...A3(A1)	●	●	●	●	●	●

Note: AG represents male thread and IG female thread.

Spare fittings and elements of MGMX combined suction cup for cartons

Lip seal		Core	Bellows		Applicable Suction Cup
T50	**T30**	**SK**	**A1**	**A3**	
MX28T50	MX28T30	SK28	-	A3-2	MGMX28...
MX39T50	MX39T30	SK39	A1-3	A3-3	MGMX39...
MX55T50	MX55T30	SK55	A1-5	A3-5	MGMX55...

Combined suction cup for cartons

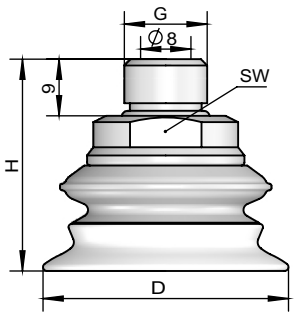
MGMX combined suction cup for cartons

Technical parameters of MGMX combined suction cup for cartons

Model	Suction force N
MGMX28...	18.9
MGMX39...	37.3
MGMX55...	75.0

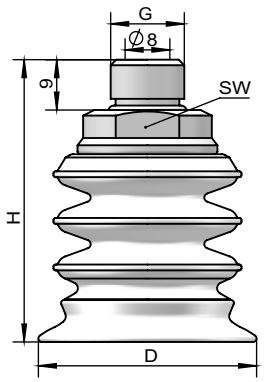
Design parameters of MGMX combined suction cup for cartons

MGMX...A1...AG



Model	Size (mm)			
	H	D	SW	G
MGMX39 □ SK39A1G1/8-AG	30.7	39	17	G1/8-AG
MGMX39 □ SK39A1G1/4-AG	33.7	39	20	G1/4-AG
MGMX39 □ SK39A1G3/8-AG	33.7	39	22	G3/8-AG
MGMX55 □ SK55A1G1/8-AG	39.2	55	17	G1/8-AG
MGMX55 □ SK55A1G1/4-AG	42.2	55	20	G1/4-AG
MGMX55 □ SK55A1G3/8-AG	42.2	55	22	G3/8-AG

MGMX...A3...AG



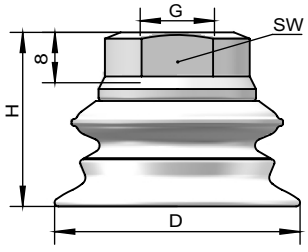
Model	Size (mm)			
	H	D	SW	G
MGMX28 □ SK28A3G1/8-AG	37.2	28	20	G1/8-AG
MGMX28 □ SK28A3G1/4-AG	39.3	28	20	G1/4-AG
MGMX28 □ SK28A3G3/8-AG	40.2	28	22	G3/8-AG
MGMX39 □ SK39A3G1/8-AG	47.5	39	17	G1/8-AG
MGMX39 □ SK39A3G1/4-AG	50.5	39	20	G1/4-AG
MGMX39 □ SK39A3G3/8-AG	50.5	39	22	G3/8-AG
MGMX55 □ SK55A3G1/8-AG	63.2	55	17	G1/8-AG
MGMX55 □ SK55A3G1/4-AG	66.2	55	20	G1/4-AG
MGMX55 □ SK55A3G3/8-AG	66.2	55	22	G3/8-AG

Combined suction cup for cartons

MGMX combined suction cup for cartons

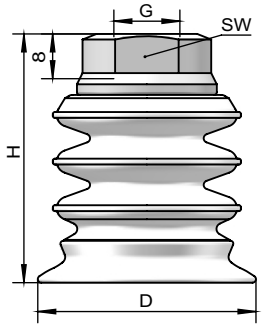
Design parameters of MGMX combined suction cup for cartons

MGMX...A1...IG



Model	Size (mm)			
	H	D	SW	G
MGMX39 ☐ SK39A1G1/8-IG	27.7	39	17	G1/8-IG
MGMX39 ☐ SK39A1G1/4-IG	27.7	39	20	G1/4-IG
MGMX39 ☐ SK39A1G3/8-IG	27.7	39	22	G3/8-IG
MGMX55 ☐ SK55A1G1/8-IG	35.2	55	17	G1/8-IG
MGMX55 ☐ SK55A1G1/4-IG	35.2	55	20	G1/4-IG
MGMX55 ☐ SK55A1G3/8-IG	35.2	55	22	G3/8-IG

MGMX...A3...IG



Model	Size (mm)			
	H	D	SW	G
MGMX28 ☐ SK28A3G1/8-IG	34.2	28	17	G1/8-IG
MGMX28 ☐ SK28A3G1/4-IG	34.3	28	20	G1/4-IG
MGMX28 ☐ SK28A3G3/8-IG	35.3	28	22	G3/8-IG
MGMX39 ☐ SK39A3G1/8-IG	44.5	39	17	G1/8-IG
MGMX39 ☐ SK39A3G1/4-IG	44.5	39	20	G1/4-IG
MGMX39 ☐ SK39A3G3/8-IG	44.5	39	22	G3/8-IG
MGMX55 ☐ SK55A3G1/8-IG	59.2	55	17	G1/8-IG
MGMX55 ☐ SK55A3G1/4-IG	59.2	55	20	G1/4-IG
MGMX55 ☐ SK55A3G3/8-IG	59.2	55	22	G3/8-IG

Combined suction cup with sponge

MGML combined suction cup with sponge

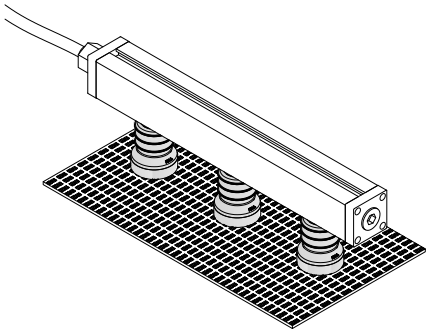
Solar energy | Composite material | Battery | Breathable



Introduction

- The EPDM lip seal is adaptable to surface concaves and convexes
- Long service life, good sealing effect
- Can compensate the height difference of irregular products
- Replaceable sponge lip seal

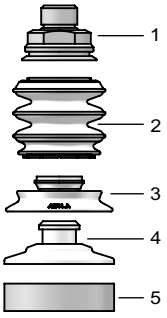
Application of MGML combined suction cup with sponge



Application

- Handles workpieces with concaves and convexes on surfaces, such as checkered plates
- Workpieces with marble grain

System design of MGML combined suction cup with sponge



Structure

- (1) Joint
- (2) Bellows
- (3) Lip seal
- (4) Core
- (5) Sponge

Combined suction cup with sponge

MGML combined suction cup with sponge

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Guide to purchage of MGML combined suction cup with sponge

MGML 30 SK30 A3 G14-AG

① ② ③ ④ ⑤

①Product series	②Lip seal size	③Core size	④Bellows specification	⑤ Joint specification
MGML	**30** - Φ30mm **40** - Φ40mm **60** - Φ60mm	**SK30** - Φ30mm **SK40** - Φ40mm **SK60** - Φ60mm	A1 - 1-fold bellows A3 - 3-fold bellows	G18-AG - G1/8 male thread G18-IG - G1/8 female thread G14-AG - G1/4 male thread G14-IG - G1/4 female thread G38-AG - G3/8 male thread G38-IG - G3/8 female thread

Note: When the lip seal size is 30, the corresponding bellows specification can only be A3.

Note: The lip seal size corresponding to the core size is the same.

Model specifications of MGML combined suction cup with sponge

Model specification	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG	G3/8-AG	G3/8-IG
MGML30...A3	●	●	●	●	●	●
MGML40...A3(A1)	●	●	●	●	●	●
MGML60...A3(A1)	●	●	●	●	●	●

Note: AG represents male thread and IG female thread.

Spare fittings and elements of MGML combined suction cup with sponge

Sponge			Core	Bellows		Applicable Suction Cup
Φ30	**Φ40**	**Φ60**	**SKL**	**A1**	**A3**	
ML30	-	-	SKL30	-	A3-2	MGML30...
-	ML40	-	SKL40	A1-3	A3-3	MGML40...
-	-	ML60	SKL60	A1-5	A3-5	MGML60...

Technical parameters of MGML combined suction cup with sponge

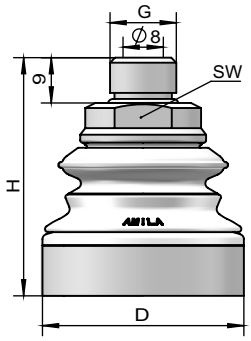
Model	Suction force N
MGML30...	10.5
MGML40...	29.4
MGML60...	75.3

Combined suction cup with sponge

MGML combined suction cup with sponge

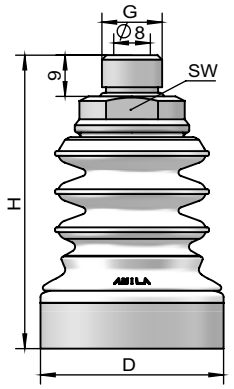
Design parameters of MGML combined suction cup with sponge

MGML...A1...AG



Model	Size (mm)			
	H	D	SW	G
MGML40SK40A1G1/8-AG	44.3	40	17	G1/8-AG
MGML40SK40A1G1/4-AG	47.3	40	20	G1/4-AG
MGML40SK40A1G3/8-AG	47.3	40	22	G3/8-AG
MGML60SK60A1G1/8-AG	53.2	60	17	G1/8-AG
MGML60SK60A1G1/4-AG	56.2	60	20	G1/4-AG
MGML60SK60A1G3/8-AG	56.2	60	22	G3/8-AG

MGML...A3...AG



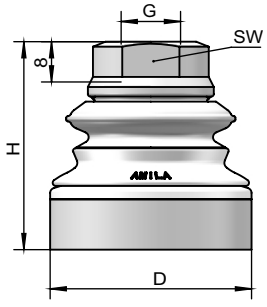
Model	Size (mm)			
	H	D	SW	G
MGML30SK30A3G1/8-AG	50.1	30	20	G1/8-AG
MGML30SK30A3G1/4-AG	53.1	30	20	G1/4-AG
MGML30SK30A3G3/8-AG	53.1	30	22	G3/8-AG
MGML40SK40A3G1/8-AG	61.1	40	17	G1/8-AG
MGML40SK40A3G1/4-AG	64.1	40	20	G1/4-AG
MGML40SK40A3G3/8-AG	64.1	40	22	G3/8-AG
MGML60SK60A3G1/8-AG	77.2	60	17	G1/8-AG
MGML60SK60A3G1/4-AG	77.2	60	20	G1/4-AG
MGML60SK60A3G3/8-AG	80.2	60	22	G3/8-AG

Combined suction cup with sponge

MGML combined suction cup with sponge

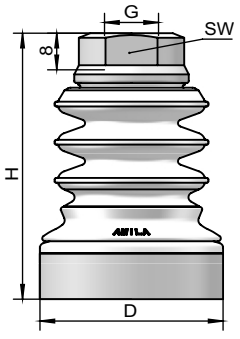
Design parameters of MGML combined suction cup with sponge

MGML...A1...IG



Model	Size (mm)			
	H	D	SW	G
MGML40SK40A1G1/8-IG	41.3	40	17	G1/8-IG
MGML40SK40A1G1/4-IG	41.3	40	20	G1/4-IG
MGML40SK40A1G3/8-IG	41.3	40	22	G3/8-IG
MGML60SK60A1G1/8-IG	49.2	60	17	G1/8-IG
MGML60SK60A1G1/4-IG	49.2	60	20	G1/4-IG
MGML60SK60A1G3/8-IG	49.2	60	22	G3/8-IG

MGML...A3...IG



Model	Size (mm)			
	H	D	SW	G
MGML30SK30A3G1/8-IG	47.1	30	17	G1/8-IG
MGML30SK30A3G1/4-IG	48.1	30	20	G1/4-IG
MGML30SK30A3G3/8-IG	49.1	30	22	G3/8-IG
MGML40SK40A3G1/8-IG	58.1	40	17	G1/8-IG
MGML40SK40A3G1/4-IG	58.1	40	20	G1/4-IG
MGML40SK40A3G3/8-IG	58.1	40	22	G3/8-IG
MGML60SK60A3G1/8-IG	73.2	60	17	G1/8-IG
MGML60SK60A3G1/4-IG	73.2	60	20	G1/4-IG
MGML60SK60A3G3/8-IG	70.2	60	22	G3/8-IG

Combined suction cup for deep soft bags

MGMBH combined suction cup for deep soft bags

Food packaging

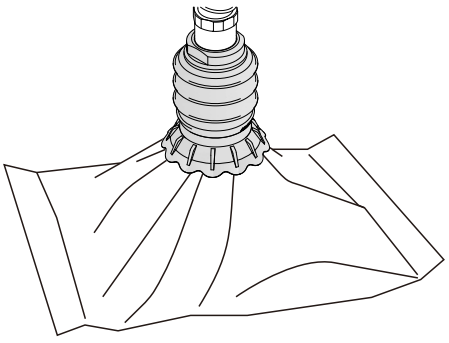
Plastic bag



Introduction

- Lip seal with inner and outer reinforcing ribs
- Optimal sealing conducive to gripping all kinds of soft packaging bag
- Effectively enhanced strength of suction cup ensure the gripping force to the greatest extent
- Prevents the soft packaging being gripped from deforming to block the vent
- Replaceable lip seal of the suction cup

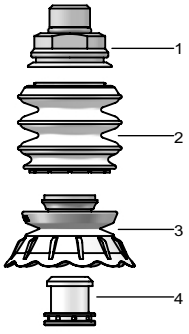
Application of MGMBH combined suction cup for deep soft bags



Application

- Applicable to handling soft plastic packaging bags such as bagged laundry powder, laundry detergent, tissue, couriering bags. etc.
- Food grade silicone applicable to food such as bagged milk, bread, puffed food, etc.

System design of MGMBH combined suction cup for deep soft bags



Structure

- (1) Joint
- (2) Bellows
- (3) Lip seal
- (4) Core

Combined suction cup for deep soft bags

MGMBH combined suction cup for deep soft bags

AMILA

Guide to purchase of MGMBH combined suction cup for deep soft bags

MGMBH 43 S50 SK43 A3 G14-AG

① ② ③ ④ ⑤ ⑥

① Product series	② Lip seal size	③ Material and hardness	④ Core size
MGMBH	**43** - Φ43mm **60** - Φ60mm	S50 - 50° silicone S30 - 30° silicone	**SK43** - Φ43mm **SK60** - Φ60mm

Note: The lip seal size corresponding to the core size is the same.

⑤ Bellows specification	⑥ Joint specification
A1 - 1-fold bellows A3 - 3-fold bellows	G18-AG - G1/8 male thread G18-IG - G1/8 female thread G14-AG - G1/4 male thread G14-IG - G1/4 female thread G38-AG - G3/8 male thread G38-IG - G3/8 female thread

Model specifications of MGMBH combined suction cup for deep soft bags

Model specification	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG	G3/8-AG	G3/8-IG
MGMBH43...A3(A1)	●	●	●	●	●	●
MGMBH60...A3(A1)	●	●	●	●	●	●

Note: AG represents male thread and IG female thread.

Spare fittings and elements of MGMBH combined suction cup for deep soft bags

Lip seal		Core	Bellows		Applicable Suction Cup
S50	**S30**	**SK**	**A1**	**A3**	
MBH43S50	MBH43S30	SK43	A1-3	A3-3	MGMBH43...
MBH60S50	MBH60S30	SK60	A1-5	A3-5	MGMBH60...

Combined suction cup for deep soft bags

MGMBH combined suction cup for deep soft bags

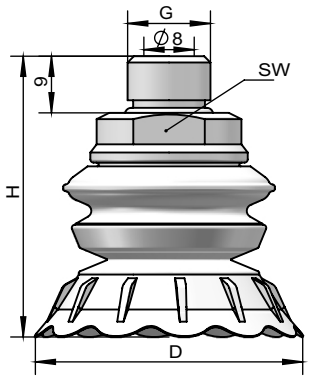
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Technical parameters of MGMBH combined suction cup for deep soft bags

Model	Suction force N
MGMBH43...	22.2
MGMBH60...	55.3

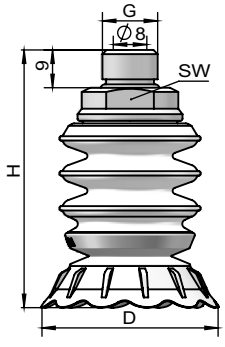
Design parameters of MGMBH combined suction cup for deep soft bags

MGMBH...A1...AG



Model	Size (mm)			
	H	**D**	**SW**	**G**
MGMBH43 ☐ SK43A1G18-AG	41.5	43	17	G1/8-AG
MGMBH43 ☐ SK43A1G14-AG	44.5	43	20	G1/4-AG
MGMBH43 ☐ SK43A1G38-AG	44.5	43	22	G3/8-AG
MGMBH60 ☐ SK43A1G18-AG	55.6	60	17	G1/8-AG
MGMBH60 ☐ SK43A1G14-AG	55.6	60	20	G1/4-AG
MGMBH60 ☐ SK43A1G38-AG	55.6	60	22	G3/8-AG

MGMBH...A3...AG



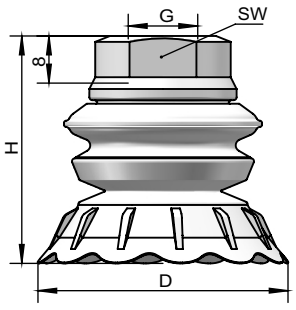
Model	Size (mm)			
	H	**D**	**SW**	**G**
MGMBH43 ☐ SK43A3G18-AG	58.3	43	17	G1/8-AG
MGMBH43 ☐ SK43A3G14-AG	61.3	43	20	G1/4-AG
MGMBH43 ☐ SK43A3G38-AG	61.3	43	22	G3/8-AG
MGMBH60 ☐ SK43A3G18-AG	76.6	60	17	G1/8-AG
MGMBH60 ☐ SK43A3G14-AG	79.6	60	20	G1/4-AG
MGMBH60 ☐ SK43A3G38-AG	79.6	60	22	G3/8-AG

Combined suction cup for deep soft bags

MGMBH combined suction cup for deep soft bags

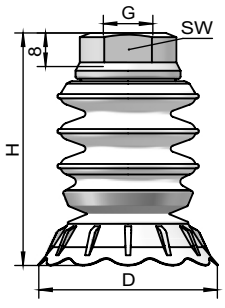
Design parameters of MGMBH combined suction cup for deep soft bags

MGMBH...A1...IG



Model	Size (mm)			
	H	D	SW	G
MGMBH43 ☐ SK43A1G18-IG	38.6	43	17	G1/8-IG
MGMBH43 ☐ SK43A1G14-IG	38.6	43	20	G1/4-IG
MGMBH43 ☐ SK43A1G38-IG	38.6	43	22	G3/8-IG
MGMBH60 ☐ SK43A1G18-IG	48.6	60	17	G1/8-IG
MGMBH60 ☐ SK43A1G14-IG	48.6	60	20	G1/4-IG
MGMBH60 ☐ SK43A1G38-IG	48.6	60	22	G3/8-IG

MGMBH...A3...IG



Model	Size (mm)			
	H	D	SW	G
MGMBH43 ☐ SK43A3G18-IG	55.3	43	17	G1/8-IG
MGMBH43 ☐ SK43A3G14-IG	55.3	43	20	G1/4-IG
MGMBH43 ☐ SK43A3G38-IG	55.3	43	22	G3/8-IG
MGMBH60 ☐ SK43A3G18-IG	72.6	60	17	G1/8-IG
MGMBH60 ☐ SK43A3G14-IG	72.6	60	20	G1/4-IG
MGMBH60 ☐ SK43A3G38-IG	72.6	60	22	G3/8-IG

Combined suction cup for soft bags

MGMBG combined suction cup for soft bags

Food packaging

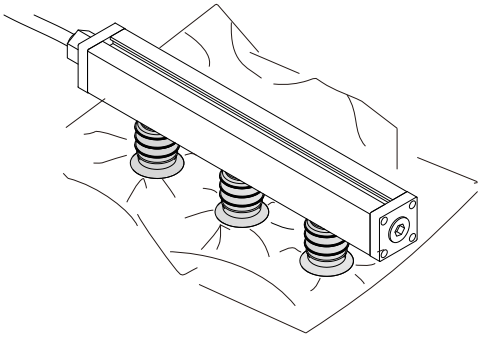
Plastic bag



Introduction

- Good sealing for gripping soft packaging bags or soft workpieces
- Can effectively compensate the height difference of irregular packaging bags
- Large-flow gripping capacity compensation for gripping workpieces with air leakage
- Prevent the soft plastic film suctioned into the cavity of the suction cup
- Replaceable lip seal of the suction cup

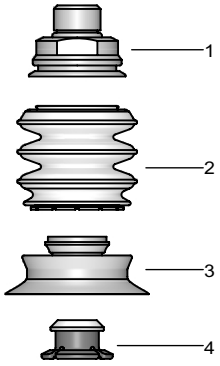
Application of MGMBG combined suction cup for soft bags



Application

- Handles soft packaging products such as couriering bags, aluminum foil bags, laundry detergent bags, water bags, etc.
- Handles food packaging, e.g. bread, biscuits, milk, etc.、
- Suitable for bag opening, e.g. woven bag opening and dragging, etc.
- Securely grips packaging bags that contain solid, powder or liquid

System design of MGMBG combined suction cup for soft bags



Structure

- (1) Joint
- (2) Bellows
- (3) Lip seal
- (4) Core

Combined suction cup for soft bags

MGMBG combined suction cup for soft bags

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Guide to purchase of MGMBG combined suction cup for soft bags

MGMBG 41 S50 SK41 A3 G14-AG

① ② ③ ④ ⑤ ⑥

① Product series	② Lip seal size	③ Material and hardness	④ Core size
MGMBG	**34** - Φ34mm **41** - Φ41mm **48** - Φ48mm **63** - Φ63mm Note: When the lip seal size is 34, the corresponding bellows specification can only be A3.	S50 - 50° silicone S30 - 30° silicone	**SK34** - Φ34mm **SK41** - Φ41mm **SK48** - Φ48mm **SK63** - Φ63mm Note: The lip seal size corresponding to the core size is the same.

⑤ Bellows specification	⑥ Joint specification
A1 - 1-fold bellows A3 - 3-fold bellows	G18-AG - G1/8 male thread G18-IG - G1/8 female thread G14-AG - G1/4 male thread G14-IG - G1/4 female thread G38-AG - G3/8 male thread G38-IG - G3/8 female thread

Model specifications of MGMBG combined suction cup for soft bags

Model specification	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG	G3/8-AG	G3/8-IG
MGMBG34...A3	●	●	●	●	●	●
MGMBG41...A3(A1)	●	●	●	●	●	●
MGMBG48...A3(A1)	●	●	●	●	●	●
MGMBG63...A3(A1)	●	●	●	●	●	●

Note: AG represents male thread and IG female thread.

Spare fittings and elements of MGMBG combined suction cup for soft bags

Lip seal		Core	Bellows		Applicable Suction Cup
S50	**S30**	**SK**	**A1**	**A3**	
MBG34S50	MBG34S30	SK34	-	A3-2	MGMBG34...
MBG41S50	MBG41S30	SK41	A1-3	A3-3	MGMBG41...
MBG48S50	MBG48S30	SK48	A1-3	A3-3	MGMBG48...
MBG63S50	MBG63S30	SK63	A1-5	A3-5	MGMBG63...

Combined suction cup for soft bags

MGMBG combined suction cup for soft bags

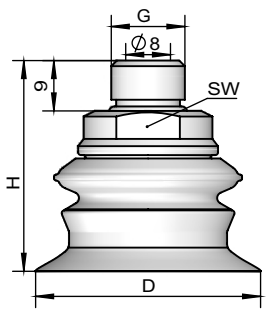
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Technical parameters of MGMBG combined suction cup for soft bags

Model	Suction force N
MGMBG34...	15.0
MGMBG41...	23.5
MGMBG48...	32.4
MGMBG63...	58.2

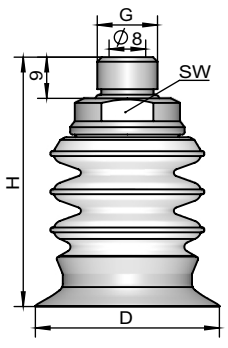
Design parameters of MGMBG combined suction cup for soft bags

MGMBG...A1...AG



Model	Size (mm)			
	H	**D**	**SW**	**G**
MGMBG41 □ SK41A1G18-AG	35.1	41	20	G1/8-AG
MGMBG41 □ SK41A1G14-AG	36.7	41	20	G1/4-AG
MGMBG41 □ SK41A1G38-AG	36.7	41	22	G3/8-AG
MGMBG48 □ SK48A1G18-AG	37.5	48	20	G1/8-AG
MGMBG48 □ SK48A1G14-AG	39	48	20	G1/4-AG
MGMBG48 □ SK48A1G38-AG	39	48	22	G3/8-AG
MGMBG63 □ SK63A1G18-AG	44.6	63	20	G1/8-AG
MGMBG63 □ SK63A1G14-AG	47.6	63	20	G1/4-AG
MGMBG63 □ SK63A1G38-AG	47.6	63	22	G3/8-AG

MGMBG...A3...AG



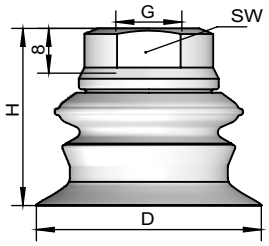
Model	Size (mm)			
	H	**D**	**SW**	**G**
MGMBG34 □ SK34A3G18-AG	40.8	34	20	G1/8-AG
MGMBG34 □ SK34A3G14-AG	44	34	20	G1/4-AG
MGMBG34 □ SK34A3G38-AG	44	34	22	G3/8-AG
MGMBG41 □ SK41A3G18-AG	51.4	41	20	G1/8-AG
MGMBG41 □ SK41A3G14-AG	54.5	41	20	G1/4-AG
MGMBG41 □ SK41A3G38-AG	54.5	41	22	G3/8-AG
MGMBG48 □ SK48A3G18-AG	52.8	48	20	G1/8-AG
MGMBG48 □ SK48A3G14-AG	55.9	48	20	G1/4-AG
MGMBG48 □ SK48A3G38-AG	55.9	48	22	G3/8-AG
MGMBG63 □ SK63A3G18-AG	68.6	63	20	G1/8-AG
MGMBG63 □ SK63A3G14-AG	71.6	63	20	G1/4-AG
MGMBG63 □ SK63A3G38-AG	71.6	63	22	G3/8-AG

Combined suction cup for soft bags

MGMBG combined suction cup for soft bags

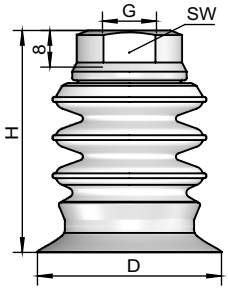
Design parameters of MGMBG combined suction cup for soft bags

MGMBG...A1...IG



Model	Size (mm)			
	H	D	SW	G
MGMBG41 ☐ SK41A1G18-IG	31.6	41	20	G1/8-IG
MGMBG41 ☐ SK41A1G14-IG	31.6	41	20	G1/4-IG
MGMBG41 ☐ SK41A1G38-IG	31.6	41	22	G3/8-IG
MGMBG48 ☐ SK48A1G18-IG	33.8	48	20	G1/8-IG
MGMBG48 ☐ SK48A1G14-IG	33.8	48	20	G1/4-IG
MGMBG48 ☐ SK48A1G38-IG	33.8	48	22	G3/8-IG
MGMBG63 ☐ SK63A1G38-IG	40.6	63	20	G3/8-IG
MGMBG63 ☐ SK63A1G14-IG	40.6	63	20	G1/4-IG
MGMBG63 ☐ SK63A1G18-IG	40.6	63	22	G1/8-IG

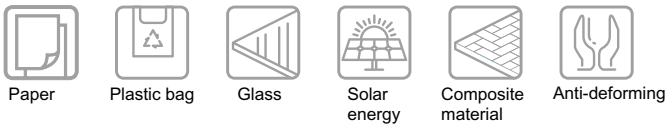
MGMBG...A3...IG



Model	Size (mm)			
	H	D	SW	G
MGMBG34 ☐ SK34A3G18-IG	38	34	20	G1/8-IG
MGMBG34 ☐ SK34A3G14-IG	39	34	20	G1/4-IG
MGMBG34 ☐ SK34A3G38-IG	39	34	22	G3/8-IG
MGMBG41 ☐ SK41A3G18-IG	48.5	41	20	G1/8-IG
MGMBG41 ☐ SK41A3G14-IG	48.5	41	20	G1/4-IG
MGMBG41 ☐ SK41A3G38-IG	48.5	41	22	G3/8-IG
MGMBG48 ☐ SK48A3G18-IG	50	48	20	G1/8-IG
MGMBG48 ☐ SK48A3G14-IG	50	48	20	G1/4-IG
MGMBG48 ☐ SK48A3G38-IG	50	48	22	G3/8-IG
MGMBG63 ☐ SK63A3G38-IG	64.5	63	20	G3/8-IG
MGMBG63 ☐ SK63A3G14-IG	64.5	63	20	G1/4-IG
MGMBG63 ☐ SK63A3G18-IG	64.5	63	22	G1/8-IG

Flat suction cup for plastic film and paper

MXD flat suction cup

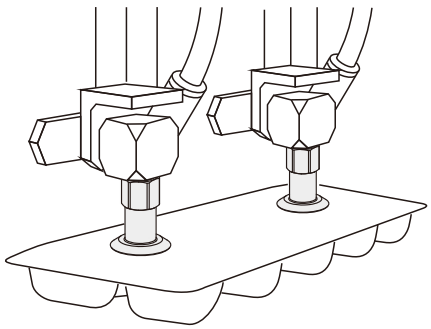




Introduction

- Ultra-thin lip seal
- Optional high-temperature traceless material
- Applicable to film, paper and solar panels
- Prevent workpiece suctioned into the suction cup
- Traceless suction, and even high-temperature traceless suction
- Can prevent paper and film suctioned from being wrinkled
- With resistance to high temperature, ozone and UV radiation, it is suitable for handling in the paper and printing industry

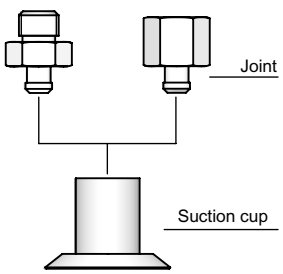
Application of MXD flat suction cup



Application

- Handles various packaging materials, e.g. paper, plastic film, plastic bag opening, etc.
- Handles fragile workpieces such as wood sheets, solar silicon wafers and solar cells

System design of MXD flat suction cup



Structure

- The joint is designed to be detachable from the suction cup so that the vulnerable elements can be easily replaced

Flat suction cup for plastic film and paper

MXD flat suction cup

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MXD flat suction cup purchase guide

MXD 15 SI M5-AG

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MXD	**15** - φ15mm	HT1 - High temperature resistant	Null —Bare suction cup
	20 - φ20mm	SI - Silicone rubber	M5-AG - M5 male thread
	24 - φ24mm		G1/8-AG - G1/8 male thread
	30 - φ30mm		G1/8-IG - G1/8 female thread
	34 - φ34mm		G1/4-AG - G1/4 male thread
	40 - φ40mm		G1/4-IG - G1/4 female thread
			Note: AG=Male thread IG=Female thread

Model specifications of MXD flat suction cup

Model specification	M5-AG	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG
MXD 15...	●	●	●	-	-
MXD 20...	●	●	●	-	-
MXD 24...	●	●	●	-	-
MXD 30...	-	-	-	●	●
MXD 34...	-	-	-	●	●
MXD 40...	-	●	-	●	●

MXD flat suction cup fitting model specifications

Fitting Name	Model Specification		
	AG-Male thread	**IG**-Female thread	
Suction cup joint	S016 M5-AG	S016 G1/8-IG	MXD 15、20、24
	S016 G1/8-AG	S016 G1/8-IG	MXD 15、20、24
	S033 G1/4-AG	S033 G1/4-IG	MXD 30、34
	S035 G1/8-AG		MXD 40
	S035 G1/4-AG	S035 G1/4-IG	MXD 40

Technical parameters of MXD flat suction cup

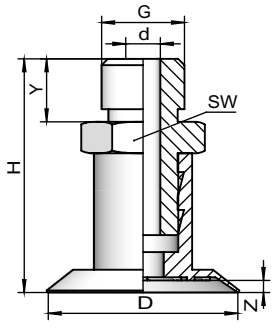
Model	Suction force **N**	Internal Volume **cm^3**	Weight **g**
MXD 15...	5.5	0.12	0.6
MXD 20...	8.5	0.31	1.0
MXD 24...	11.0	0.70	1.1
MXD 30...	19.0	1.50	3.2
MXD 34...	25.0	2.10	3.3
MXD 40...	33.0	2.90	5.3

Flat suction cup for plastic film and paper

MXD flat suction cup

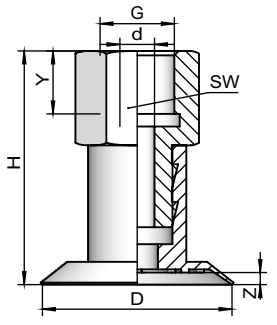
Design parameters of MXD flat suction cup

MXD 15 to 40 AG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MXD 15 M5-AG	14.5	2.5	20.0	5	0.9	7	M5-AG
MXD 15 G1/8-AG	14.5	3.5	23.5	7.5	0.9	14	G1/8-AG
MXD 20 M5-AG	20.9	2.5	20.4	5	1.5	7	M5-AG
MXD 20 G1/8-AG	20.9	3.5	23.9	7.5	1.5	14	G1/8-AG
MXD 24 M5-AG	24.4	2.5	20.8	5	1.7	7	M5-AG
MXD 24 G1/8-AG	24.4	3.5	24.3	7.5	1.7	14	G1/8-AG
MXD 30 G1/4-AG	30.6	5.5	37.2	10	2.0	17	G1/4-AG
MXD 34 G1/4-AG	34.5	5.5	38.0	10	1.4	17	G1/4-AG
MXD 40G1/8-AG	40.5	5.0	34.6	9	2.3	17	G1/8-AG
MXD 40G1/4-AG	40.5	5.5	35.6	10	2.3	17	G1/4-AG

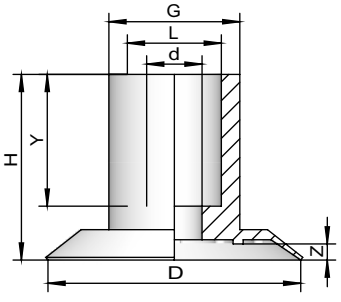
MXD 15 to 40 IG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MXD 15 G1/8-IG	14.5	3.5	22.0	8	0.9	14	G1/8-IG
MXD 20 G1/8-IG	20.9	3.5	22.4	8	1.5	14	G1/8-IG
MXD 24 G1/8-IG	24.4	3.5	22.8	8	1.7	14	G1/8-IG
MXD 30 G1/4-IG	30.6	5.5	37.2	12	2.0	17	G1/4-IG
MXD 34 G1/4-IG	34.5	5.5	38.0	12	1.4	17	G1/4-IG
MXD 40G1/4-IG	40.5	5.5	35.6	12	2.3	17	G1/4-IG

Spare MXD suction cup pad design parameters

MXD 15to40



Model	Size (mm)						
	D	d	H	Y	L	G	Z
MXD 15	14.5	3.5	10	7.2	4.5	9	0.9
MXD 20	20.9	3.5	10.4	7.1	4.5	10.5	1.5
MXD 24	24.4	3.5	10.8	7.3	4.5	10	1.7
MXD 30	30.6	6.6	22.2	15.7	11.2	15.6	2.0
MXD 34	34.5	5.8	23	16.8	11.2	14.8	1.4
MXD 40	40.5	5.0	20.6	14.5	8	16	2.3

High-temperature suction plate

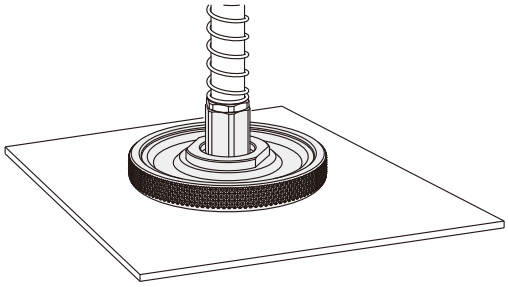
MW-HT high-temperature suction plate



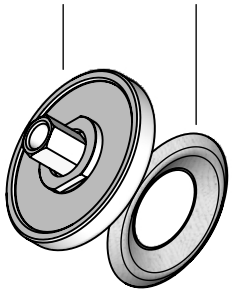
Sheet metal | Glass | High temperature resistance



Application of MW-HT high-temperature suction plate



System design of MW-HT high-temperature suction plate



Introduction

- Main body made of stainless steel
- Sealing ring made of a special high temperature resistant material
- Long-time withstanding of a high temperature of up to 600℃
- High wear resistance
- Very strong high temperature resistance enables long-time contact with the workpiece

Application

- Handles workpieces with smooth and even surfaces
- Hot forming process, etc. of metal workpieces
- Used for float glass and tempering process
- Note: All elements in the corresponding vacuum loop should be made of high temperature resistant materials

Structure

- With a split structure design, vulnerable elements can be easily replaced

High-temperature suction plate

MW-HT high-temperature suction plate

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MW-HT high-temperature suction plate purchase guide

MW-HT 35 BL G1/8-IG

① ② ③ ④

① Product series	② Size specification	③ Material	④ Joint specification
MW-HT	**35** - Φ35mm **60** - Φ60mm **90** - Φ90mm **140** - Φ140mm	BL - Special woven silicate material	G1/8-IG - G1/8 female thread G1/4-IG - G1/4 female thread G3/8-IG - G3/8 female thread Note: AG=Male thread IG=Female thread

Model specifications of MW-HT high-temperature suction plate

Model specification	G1/8-IG	G1/4-IG	G3/8-IG
MW-HT 35...	●	-	-
MW-HT 60...	-	●	-
MW-HT 90...	-	●	-
MW-HT 140...	-	-	●

Model specifications of MW-HT high-temperature suction plate

Fitting Name	Model Specification	Applicable Suction Cup
Sealing gasket	DR-MW-HT 35 BL	MW-HT 35 BL G1/8-IG
	DR-MW-HT 60 BL	MW-HT 60 BL G1/4-IG
	DR-MW-HT 90 BL	MW-HT 90 BL G1/4-IG
	DR-MW-HT 140 BL	MW-HT 140 BL G3/8-IG

Technical parameters of MW-HT high-temperature suction plate

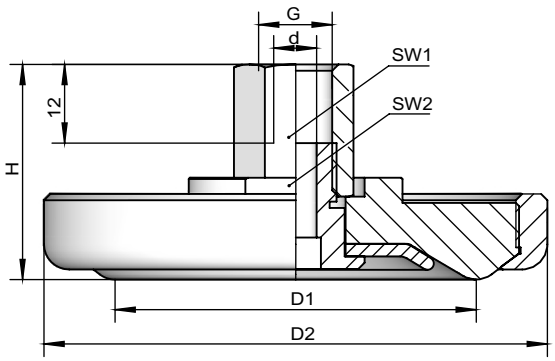
Model	Suction force N	Internal Volume cm^3	Minimum radius of curvature of workpiece mm (convex)	Under a pressure of -0.7 bar, required suction force l/min	Weight g
MW-HT 35 BL G1/8-IG	47	4	90	55	225
MW-HT 60 BL G1/4-IG	130	12	440	78	468
MW-HT 90 BL G1/4-IG	320	25	1060	100	745
MW-HT 140 BL G3/8-IG	740	50	1700	120	1700

High-temperature suction plate

MW-HT high-temperature suction plate

Design parameters of MW-HT high-temperature suction plate

MW–HT 35 – 140 BL



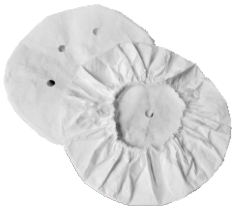
Model	Size (mm)						
	D1	D2	d	H	SW1	SW2	G
MW-HT 35 BL G1/8-IG	35	53	5	29	14	27	G1/8-IG
MW-HT 60 BL G1/4-IG	58	80	7	39	17	27	G1/4-IG
MW-HT 90 BL G1/4-IG	90	112	7	39	17	46	G1/4-IG
MW-HT 140 BL G3/8-IG	138	160	8	39	22	95	G3/8-IG

Vacuum suction cup cover

MU vacuum suction cup cover


Glass

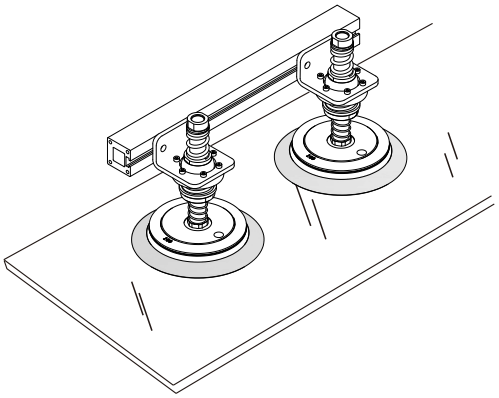

Solar energy



Introduction

- High quality non-woven fabric (PP/PE)
- Large range of diameters
- Quick and easy installation on suction cups
- Installation on flat suction cups, bellows suction cups and suction plates
- Highly tear-resistant as well as extremely resistant to chemicals
- Sensitive workpieces can be handled gently without any abrasion
- The vacuum suction cup cover with a rubber band can be easily mounted to or removed from the vacuum suction cup
- Diameter ranging from 30 to 360 mm fits the suction cup with the corresponding diameter

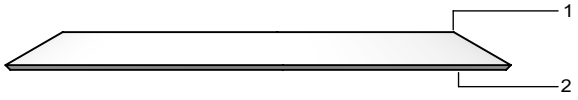
Application of MU vacuum suction cup cover



Application

- Handles workpieces with smooth and sensitive surfaces (such as coated or painted surfaces) to prevent marks and damage
- Used for production, processing and conveying, e.g. in the glass and photovoltaic industries
- Used in combination with suction cups and suction plates

System design of MU vacuum suction cup cover



Structure

- (1) Rubber band
- (2) Main body of suction cup cover

Vacuum suction cup cover

MU vacuum suction cup cover

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MU vacuum suction cup cover purchase guide

MU 30

① ②

① Product series	② Size specification	
MU	**30** - Φ30mm	**160** - Φ160mm
	40 - Φ40mm	**210** - Φ210mm
	50 - Φ50mm	**230** - Φ230mm
	70 - Φ70mm	**280** - Φ280mm
	80 - Φ80mm	**300** - Φ300mm
	100 - Φ100mm	**360** - Φ360mm
	120 - Φ120mm	

Technical parameters of MU vacuum suction cup cover

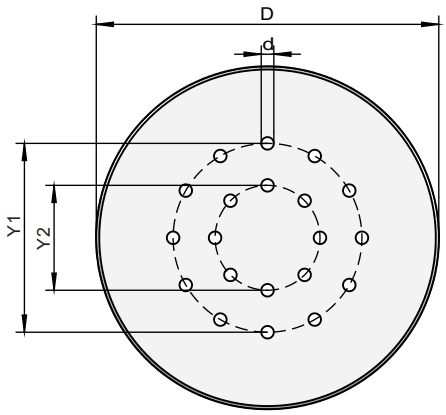
Model	Weight g	Gripping range
MU 30	0.9	27-35mm
MU 40	1.2	35-45mm
MU 50	1.3	45-60mm
MU 70	1.7	65-80mm
MU 80	2.0	80-100mm
MU 100	2.0	100-115mm
MU 120	2.0	115-130mm
MU 160	4.0	150-180mm
MU 210	4.0	210-220mm
MU 230	5.0	230-250mm
MU 280	9.0	270-300mm
MU 300	17.0	300-330mm
MU 360	23.0	360-400mm

Vacuum suction cup hood

MU vacuum suction cup hood

Design parameters of MU vacuum suction cup cover

MU 30 to 360



Model	Size (mm)			
	D	d	Y1	Y2
MU 30	30	3	-	-
MU 40	40	3	-	-
MU 50	50	5	-	30
MU 70	70	5	-	30
MU 80	80	5	-	30
MU 100	100	6	-	50
MU 120	120	6	-	50
MU 160	160	6	-	50
MU 210	210	6	-	50
MU 230	230	6	-	50
MU 280	280	6	-	50
MU 300	300	6	170	90
MU 360	360	6	170	90

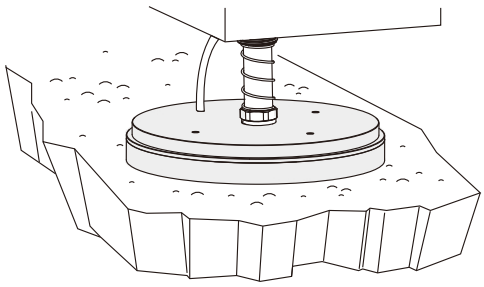
Round sponge suction cup

MPE vacuum suction cup

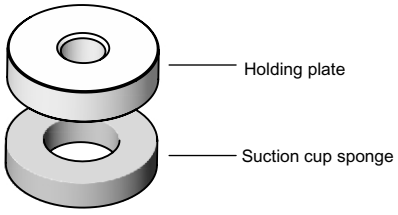




Application of MPE vacuum suction cup



System design of MPE vacuum suction cup



Introduction

- Round foam sponge
- Metal holding plate
- EPDM foam (black), GE20 foam rubber (orange)
- Long service life, good sealing, strong suction force
- Lightweight, heavy-load, large-area holding plate
- The customer can choose the appropriate model according to the actual operating condition
- Applicable to workpieces of different sizes and in different shapes

Application

- Applicable to suctioning objects with very rough or uneven surfaces, such as rough slates, embossed plates, marble slabs, tiles, cement slabs, checkered metal plates, etc.
- EPDM · With high resistance to weather and ozonation but poor yielding and storage stability, applicable to gripping objects with rough surfaces, suitable for outdoor operations, but not suitable for applications in the food industry
- GE20 · With good yielding elasticity and scalability, and high wear resistance, tear resistance and cutting resistance, but poor oil resistance, heat resistance and aging resistance, applicable to gripping objects with very rough surfaces, but not suitable for applications in the food industry

Structure

- Consists of a metal holding plate and sponge, where the sponge is self-adhesive and can be directly stuck to the holding plate, and can be purchased and replaced separately

Round sponge suction cup

MPE vacuum suction cup

AMILA

MPE vacuum suction cup purchase guide

MPE 40 G1/4-IG G

① ② ③ ④

① Product series	② Suction area	③ Connecting thread	④ Material
MPE	**40** - φ40mm	G1/4-IG - G1/4 female thread	G - GE20
	64 - φ64mm	G3/8-IG - G3/8 female thread	E - EPDM
	92 - φ92mm	Note: IG=Female thread	
	127 - φ127mm		
	180 - φ180mm		

Model specifications of MPE vacuum suction cup

Model specification	G1/4-IG	G3/8-IG
MPE 40...	●	-
MPE 64...	●	-
MPE 92...	-	●
MPE 127...	-	●
MPE 180...	-	●

Model specifications of MPE vacuum suction cup fittings

Fitting Name	Material		Applicable Suction Cup
	GE20	**EPDM**	
Suction cup sponge	MPE GE 40	MPE ED 40	MPE 40
	MPE GE 64	MPE ED 64	MPE 64
	MPE GE 92	MPE ED 92	MPE 92
	MPE GE 127	MPE ED 127	MPE 127
	MPE GE 180	MPE ED 180	MPE 180

Technical parameters of MPE vacuum suction cup

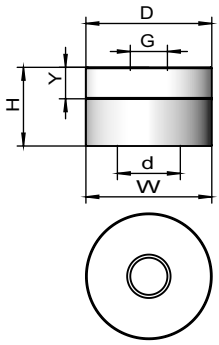
Model	Suction force N	Internal Volume cm^3	Operating temperature ℃	Weight g
MPE 40 G1/4 □	7.8	4.7	-40…80	35.6
MPE 64 G1/4 □	35	18.8	-40…80	86.5
MPE 92 G3/8 □	85	48.2	-40…80	196.3
MPE 127 G3/8 □	175	99.6	-40…80	490
MPE 180 G3/8 □	385	230.7	-40…80	780

Round sponge suction cup

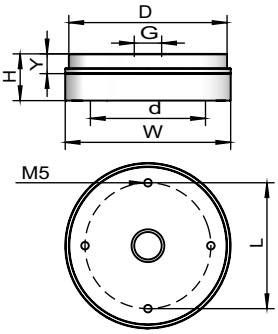
MPE vacuum suction cup

Design parameters of MPE vacuum suction cup

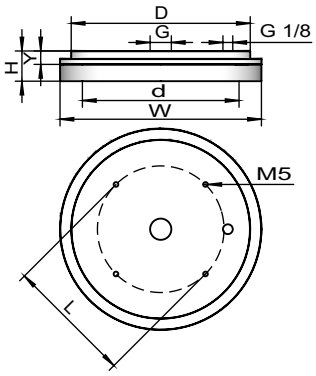
MPE 40



MPE 64 to 92



MPE 127 to 180



Model	Size (mm)						
	D	d	H	Y	W	L	G
MPE 40 G1/4 ☐	40	20	25	10	40	-	G1/4
MPE 64 G1/4 ☐	60	40	25	10	64	50	G1/4
MPE 92 G3/8 ☐	88	64	26	11	92	70	G3/8
MPE 127 G3/8 ☐	120	92	30	15	127	100	G3/8
MPE 180 G3/8 ☐	160	140	27	12	180	115	G3/8

Oval sponge suction cup

MPES vacuum suction cup

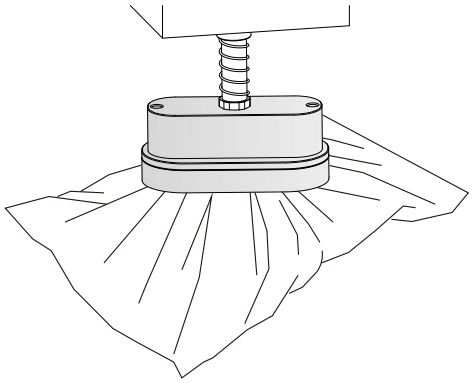

Packaging


Stone

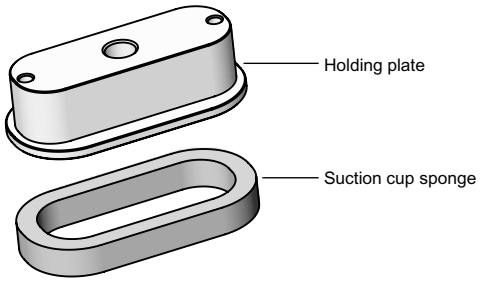

Rough surface



Application of MPES vacuum suction cup



System design of MPES vacuum suction cup



Introduction

- Oval foam sponge
- Metal holding plate
- EPDM foam (black), GE20 foam rubber (orange)
- Long service life, good sealing, strong suction force
- Lightweight, heavy-load, large-area holding plate
- The customer can choose the appropriate model according to the actual operating condition
- Applicable to workpieces of different sizes and in different shapes

Application

- Applicable to paper or plastic packaging bags and flexible containers

Structure

- Consists of a metal holding plate and sponge, where the sponge is self-adhesive and can be directly stuck to the holding plate, and can be purchased and replaced separately

Oval sponge suction cup

MPES vacuum suction cup

AMILA

MPES vacuum suction cup purchase guide

MPES 120×60 G3/8-IG G

① ② ③ ④

① Product series	② Suction area	③ Connecting thread	④ Material
MPES	**120×60** - (L×W) 120×60mm **160×90** - (L×W) 160×90mm **210×95** - (L×W) 210×95mm **200×150** - (L×W) 200×150mm **300×200** - (L×W) 300×200mm	G3/8-IG - G3/8 female thread G1/2-IG - G1/2 female thread G1-IG - G1 female thread Note: IG=Female thread	G - GE20 E - EPDM

Model specifications of MPES vacuum suction cup

Model specification	G3/8-IG	G1/2-IG	G1-IG
MPES 120×60	●	-	-
MPES 160×90	-	●	-
MPES 210×95	-	●	-
MPES 200×150	-	-	●
MPES 300×200	-	-	●

Model specifications of MPES vacuum suction cup fittings

Fitting Name	Material		Applicable Suction Cup
	GE20	**EPDM**	
Suction cup sponge	MPES GE 120×60	MPES ED 120×60	MPES 120×60
	MPES GE 160×90	MPES ED 160×90	MPES 160×90
	MPES GE 210×95	MPES ED 210×95	MPES 210×95
	MPES GE 200×150	MPES ED 200×150	MPES 200×150
	MPES GE 300×200	MPES ED 300×200	MPES 300×200

Technical parameters of MPES vacuum suction cup

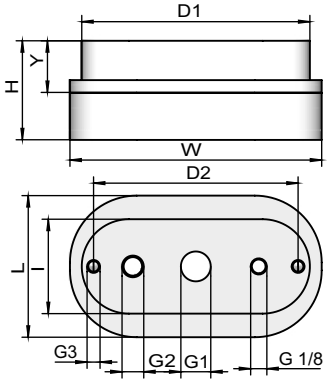
Model	Suction force N	Operating temperature ℃	Weight g
MPES 120×60 G3/8 □	94	-40…80	360
MPES 160×90 G1/2 □	179	-40…80	630
MPES 210×95 G1/2 □	274	-40…80	800
MPES 200×150 G1 □	438	-40…80	1100
MPES 300×200 G1 □	825	-40…80	2240

Oval sponge suction cup

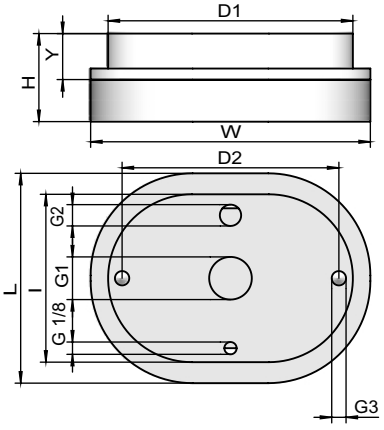
MPES vacuum suction cup

Design parameters of MPES vacuum suction cup

MPES 120 × 60 to 210 × 95



MPES 200 × 150 to 300 × 200

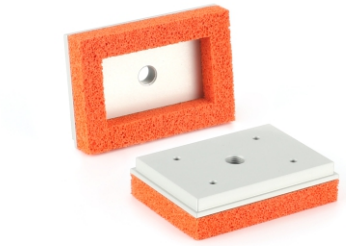


Model	Size (mm)									
	D1	**D2**	**H**	**Y**	**W**	**L**	**I**	**G1**	**G2**	**G3**
MPES 120 × 60 G3/8 ☐	111	100	49	29	120	60	40	G3/8	-	M8
MPES 160 × 90 G1/2 ☐	145	130	63	25	160	90	60	G1/2	G1/4	M8
MPES 210 × 95 G1/2 ☐	185	160	63	25	210	95	60	G1/2	G1/4	M12
MPES 200 × 150 G1 ☐	175	160	63	25	200	150	120	G1	G3/8	M12
MPES 300 × 200 G1 ☐	250	200	78	40	300	200	150	G1	G3/8	M12

Rectangular sponge suction cup

MLE vacuum suction cup

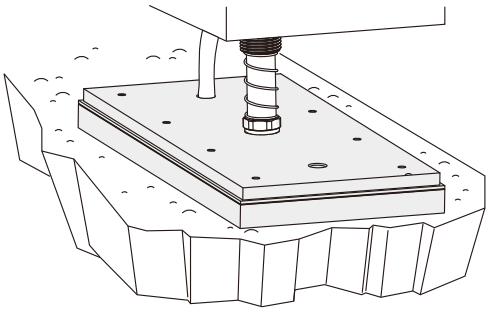




Introduction

- Round foam sponge
- Metal holding plate
- EPDM foam (black), GE20 foam rubber (orange)
- Long service life, good sealing, strong suction force
- Lightweight, heavy-load, large-area holding plate
- The customer can choose the appropriate model according to the actual operating condition
- Applicable to workpieces of different sizes and in different shapes

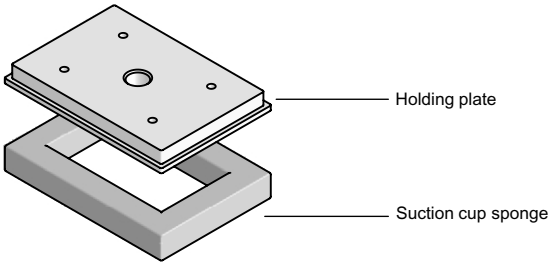
Application of MLE vacuum suction cup



Application

- Applicable to suctioning objects with very rough or uneven surfaces, such as rough slates, embossed plates, marble slabs, tiles, cement slabs, checkered metal plates, etc.
- EPDM · With high resistance to weather and ozonation but poor yielding and storage stability, applicable to gripping objects with rough surfaces, suitable for outdoor operations, but not suitable for applications in the food industry
- GE20 · With good yielding elasticity and scalability, and high wear resistance, tear resistance and cutting resistance, but poor oil resistance, heat resistance and aging resistance, applicable to gripping objects with very rough surfaces, but not suitable for applications in the food industry

System design of MLE vacuum suction cup



Structure

- Consists of a metal holding plate and sponge, where the sponge is self-adhesive and can be directly stuck to the holding plate, and can be purchased and replaced separately

Rectangular sponge suction cup

MLE vacuum suction cup

AMILA

MLE vacuum suction cup purchase guide

MLE 107×75 G1/4-IG G

① ② ③ ④

① Product series	② Suction area	③ Connecting thread	④ Material
MLE	**107×75** - (L×W) 107×75mm **135×50** - (L×W) 135×50mm **135×60** - (L×W) 135×60mm **290×68** - (L×W) 290×68mm **290×140** - (L×W) 290×140mm	G1/4-IG - G1/4 Female thread G3/8-IG - G3/8 female thread G1/2-IG - G1/2 female thread Note: IG=Female thread	G - GE20 E - EPDM

Model specifications of MLE vacuum suction cup

Model specification	G1/4-IG	G3/8-IG	G1/2-IG
MLE 107×75...	●	-	-
MLE 135×50...	●	-	-
MLE 135×60...	●	-	-
MLE 290×68...	-	●	-
MLE 290×140...	-	-	●

Model specifications of MLE vacuum suction cup fittings

Fitting Name	Material		Applicable Suction Cup
	GE20	**EPDM**	
Suction cup sponge	MLE GE 107×75	MLE ED 107×75	MLE 107×75
	MLE GE 135×50	MLE ED 135×50	MLE 135×50
	MLE GE 135×60	MLE ED 135×60	MLE 135×60
	MLE GE 290×68	MLE ED 290×68	MLE 290×68
	MLE GE 290×140	MLE ED 290×140	MLE 290×140

Technical parameters of MLE vacuum suction cup

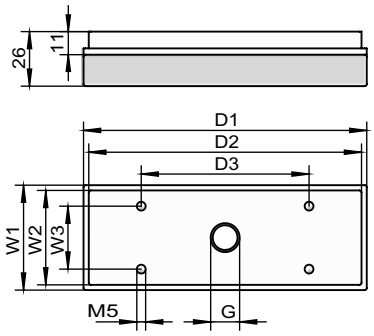
Model	Suction force Ds	Internal Volume cm^3	Operating temperature ℃	Weight g
MLE 107×75 G1/4 □	90	55.6	-40…80	229.5
MLE 135×50 G1/4 □	60	34.0	-40…80	190.6
MLE 135×60 G1/4 □	80	50.0	-40…80	233
MLE 290×68 G3/8 □	250	152.6	-40…80	560
MLE 290×140 G1/2 □	720	434.5	-40…80	1150

Rectangular sponge suction cup

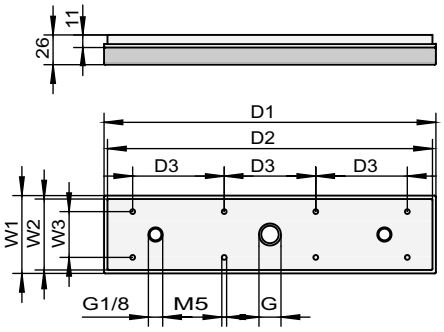
MLE vacuum suction cup

Design parameters of MLE vacuum suction cup

MLE 107 × 75 to 135 × 60



MLE 290 × 68 to 290 × 140

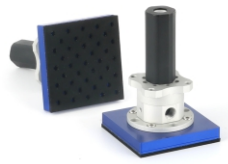


Model	Size (mm)						
	D1	D2	D3	W1	W2	W3	G
MLE 107 × 75 G1/4 □	107	102	60	75	70	40	G1/4
MLE 135 × 50 G1/4 □	135	130	80	50	45	30	G1/4
MLE 135 × 60 G1/4 □	135	130	80	60	55	40	G1/4
MLE 290 × 68 G3/8 □	290	284	80	68	62	40	G3/8
MLE 290 × 140 G1/2 □	290	284	80	140	134	100	G1/2

Composite suction cup series

Product overview

Composite suction cup



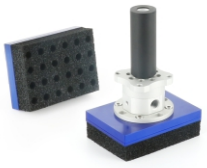
189 MD-SPONGE series
Composite suction cup
◇ Suction size: 75×75, 80×60mm
◇ Maximum vacuum flow rate: 140–650L/min

Universal Air permeability Packaging



198 MD-POM series
Composite suction cup
◇ Suction contact area diameter: 40 and 60mm
◇ Maximum vacuum flow rate: 140–650L/min

New energy Composite material Battery Air permeability



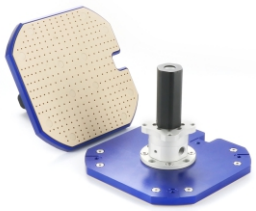
192 MD-FOAM series
Composite suction cup
◇ Suction size: 90×65mm, 200×120mm
◇ Maximum vacuum flow rate: 140–650L/min

Universal 3C product Air permeability Packaging



201 MD-CUP series
Composite suction cup
◇ Suction contact area diameter: 15, 20, 30, 40, 50mm
◇ Maximum vacuum flow rate: 140–650L/min

3C product New energy Air permeability



195 MD-PEEK series
Composite suction cup
◇ Suction size: 146×146, 100×60mm
130×65, 170×105mm
◇ Maximum vacuum flow rate: 140–650L/min

New energy Composite material Air permeability



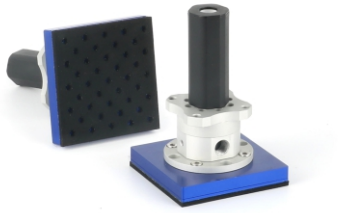
204 MD-MINI series
Composite suction cup
◇ Suction contact area diameter: 15, 20, 30, 40, 50mm
◇ Maximum vacuum flow rate: 140–650L/min

Universal Air permeability Packaging

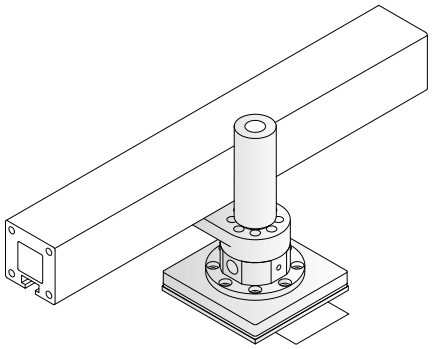
Composite suction cup

MD-SPONGE composite suction cup

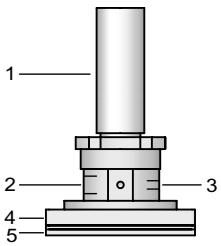




Application of MD-SPONGE composite suction cup



System design of MD-SPONGE composite suction cup



Introduction

- Large suction area enables secure handling of ultra-thin and vulnerable workpieces
- Large vacuum flow
- Vertical and horizontal mounting modes
- Vacuum generator, suction cup and silencer integrated

Application

- Operating conditions requiring a certain hardness and elastic contact, e.g., label sticking

Structure

- (1) Silencing tube
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Orifice plate
- (5) Suction surface

Composite suction cup

MD-SPONGE composite suction cup

AMILA

MD-SPONGE composite suction cup purchase guide

MD AB10 75×75 SPONGE-3

① ② ③ ④

①Product series	②Mounting mode and generator type	③Size specification	④Suction cup specification
MD	AB10 - Vertical mounting (vacuum degree - 9Kpa) AB20 - Vertical mounting (vacuum degree - 17Kpa) SB10 - Horizontal mounting (vacuum degree - 9Kpa) SB20 - Horizontal mounting (vacuum degree - 17Kpa)	75×75 80×60 Can be non-standard customized	SPONGE-3

Model specifications of MD-SPONGE composite suction cup

Model specification	AB10	AB20	SB10	SB20
MD □75×75 SPONGE	●	●	●	●
MD □80×60 SPONGE	●	●	●	●

Model specifications of MD-SPONGE composite suction cup spare fittings and elements

Model	Silencer
MD□75×75 SPONGE	ZSA G3/8-AG
MD□80×60 SPONGE	ZSA G3/8-AG

Technical parameters of MD-SPONGE composite suction cup

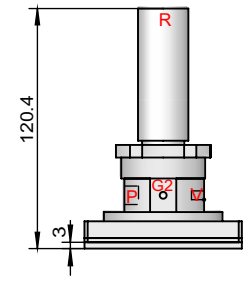
Model	Maximum vacuum degree kPa	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure KG	Weight g
MD AB10...	-9	140…350	40…140	1…5	121.1
MD AB20...	-17	270…650	60…220	1…5	121.1
MD SB10...	-9	140…350	40…140	1…5	144.8
MD SB20...	-17	270…650	60…220	1…5	144.8

Composite suction cup

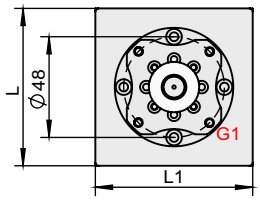
MD-SPONGE composite suction cup

Design parameters of MD-SPONGE composite suction cup

Vertical mounting MD AB...SPONGE

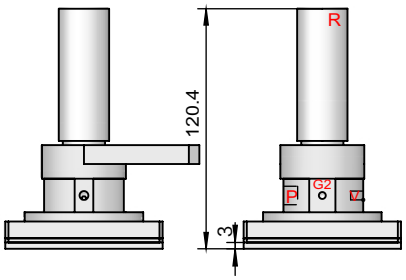


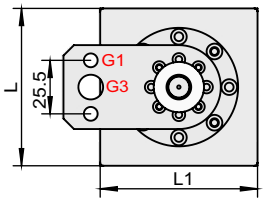
P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (4-M5)
G2: Mounting hole (2-M4)



Model	Size (mm)	
	L	L1
MD AB10 75X75 SPONGE	75	75
MD AB20 75X75 SPONGE	75	75
MD AB10 80X60 SPONGE	60	80
MD AB20 80X60 SPONGE	60	80

Horizontal mounting MD SB...SPONGE





P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (2-φ6.6)
G2: Mounting hole (2-M4)

Model	Size (mm)	
	L	L1
MD SB10 75X75 SPONGE	75	75
MD SB20 75X75 SPONGE	75	75
MD SB10 80X60 SPONGE	60	80
MD SB20 80X60 SPONGE	60	80

Composite suction cup

MD-FOAM composite suction cup

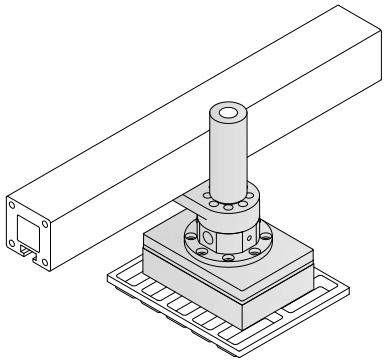
General-purpose 3C product Air permeability Packaging



Introduction

- Handles porous and highly breathable workpieces
- Large vacuum flow
- Vertical and horizontal mounting modes
- Vacuum generator, suction cup and silencer integrated

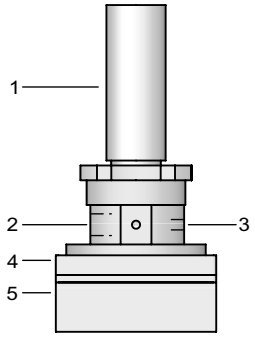
Application of MD-FOAM composite suction cup



Application

- Applicable to sticking labels to cylindrical objects, e.g., sticking labels to oil drums, water heaters, etc.
- Applicable to handling PCBs with rough surfaces and equipped with electronic elements, such as mobile phone circuit boards
- Applicable to handling plastic turnover bins with rough surfaces with convexes an concaves, such as electronic element turnover bins, etc.

System design of MD-FOAM composite suction cup



Structure

- (1) Silencing tube
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Orifice plate
- (5) Suction surface

Composite suction cup

MD-FOAM composite suction cup

AMILA

MD-FOAM composite suction cup purchase guide

MD AB10 90×65 FOAM-20

① ② ③ ④

① Product series	② Mounting mode and generator type	③ Size specification	④ Suction cup specification
MD	AB10 - Vertical mounting (vacuum degree - 9Kpa) AB20 - Vertical mounting (vacuum degree - 17Kpa) SB10 - Horizontal mounting (vacuum degree - 9Kpa) SB20 - Horizontal mounting (vacuum degree - 17Kpa)	90×65 200×120 Can be non-standard customized	FOAM-20

Model specifications of MD-FOAM composite suction cup

Model	AB10	AB20	SB10	SB20
MD□ 90×65 FOAM	●	●	●	●
MD□ 200×120 FOAM	●	●	●	●

Model specifications of MD-FOAM composite suction cup spare fittings and elements

Model	Silencer
MD□90×65 FOAM	ZSA G3/8-AG
MD□200×120 FOAM	ZSA G3/8-AG

Technical parameters of MD-FOAM composite suction cup

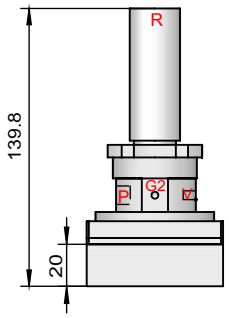
Model	Maximum vacuum degree **kPa**	Maximum vacuum flow rate **l/min**	Air consumption **l/min**	Air intake pressure **KG**	Weight **g**
MD AB10...	-9	140…350	40…140	1…5	121.1
MD AB20...	-17	270…650	60…220	1…5	121.1
MD SB10...	-9	140…350	40…140	1…5	144.8
MD SB20...	-17	270…650	60…220	1…5	144.8

Composite suction cup

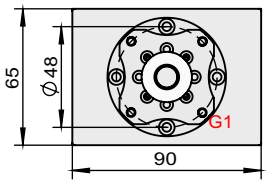
MD-FOAM composite suction cup

Design parameters of MD-FOAM composite suction cup

Vertical mounting MD AB...FOAM

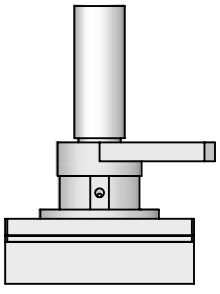


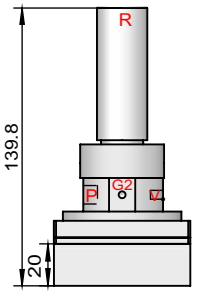
P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (4-M5)
G2: Mounting hole (2-M4)

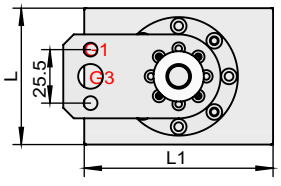


Model	Size (mm)	
	L	L1
MD AB10 90X65 FOAM	65	90
MD AB20 90X65 FOAM	65	90
MD AB10 200X120 FOAM	120	200
MD AB20 200X120 FOAM	120	200

Horizontal mounting MD SB...FOAM





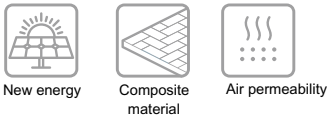


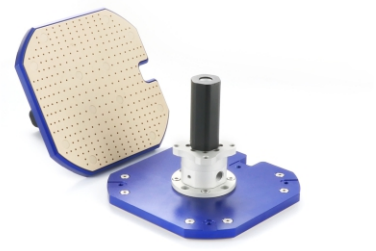
P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (2-φ6.6)
G2: Mounting hole (2-M4)
G3: Mounting hole (G1/4)

Model	Size (mm)	
	L	L1
MD SB10 90X65 FOAM	65	90
MD SB20 90X65 FOAM	65	90
MD SB10 200X120 FOAM	120	200
MD SB20 200X120 FOAM	120	200

Composite suction cup

MD-PEEK composite suction cup

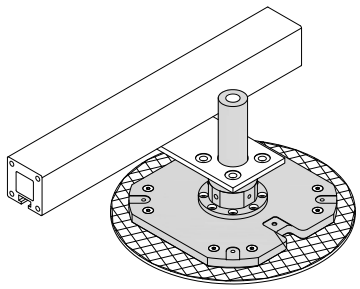




Introduction

- Handling without any contamination or influence on the subsequent product process
- Vacuum generator, suction cup and silencer integrated
- Suction cup's contact side: PEEK material
- A detection sensor can be mounted to the main body

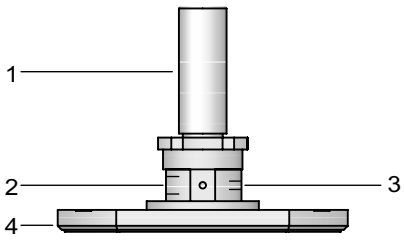
Application of MD-PEEK composite suction cup



Application

- Applicable to handling fragile products such as photovoltaic cells, solar cells, glass

System design of MD-PEEK composite suction cup



Structure

- (1) Silencing tube
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Suction surface

Composite suction cup

MD-PEEK composite suction cup

AMILA

MD-PEEK composite suction cup purchase guide

MD AB10 146×146 PEEK

① ② ③ ④

① Product series	② Mounting mode and generator type	③ Size specification	④ Material
MD	AB10 - Vertical mounting (vacuum degree - 9Kpa) AB20 - Vertical mounting (vacuum degree - 17Kpa) SB10 - Horizontal mounting (vacuum degree - 9Kpa) SB20 - Horizontal mounting (vacuum degree - 17Kpa)	146×146 100×60 170×105 130×65 Can be non-standard customized	PEEK

Model specifications of MD-PEEK composite suction cup

Model specification	AB10	AB20	SB10	SB20
MD □ 146×146 PEEK	●	●	●	●
MD □ 100×60 PEEK	●	●	●	●
MD □ 170×105 PEEK	●	●	●	●
MD □ 130×65 PEEK	●	●	●	●

Model specifications of MD-PEEK composite suction cup spare fittings and elements

Model	Silencer
MD □ 146×146 PEEK	ZSA G3/8-AG
MD □ 100×60 PEEK	ZSA G3/8-AG
MD □ 170×105 PEEK	ZSA G3/8-AG
MD □ 130×65 PEEK	ZSA G3/8-AG

Technical parameters of MD-PEEK composite suction cup

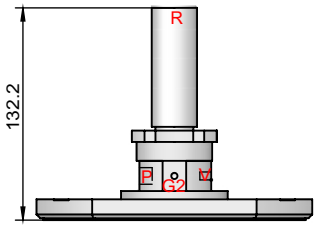
Model	Maximum vacuum degree kPa	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure KG	Weight g
MD AB10...	-9	140…350	40…140	1…5	121.1
MD AB20...	-17	270…650	60…220	1…5	121.1
MD SB10...	-9	140…350	40…140	1…5	144.8
MD SB20...	-17	270…650	60…220	1…5	144.8

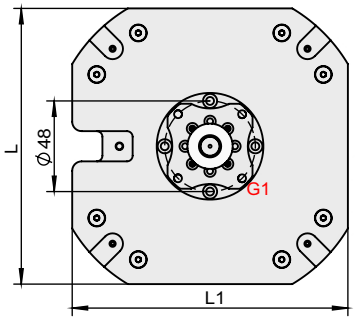
Composite suction cup

MD-PEEK composite suction cup

Design parameters of MD-PEEK composite suction cup

Vertical mounting MD AB...PEEK

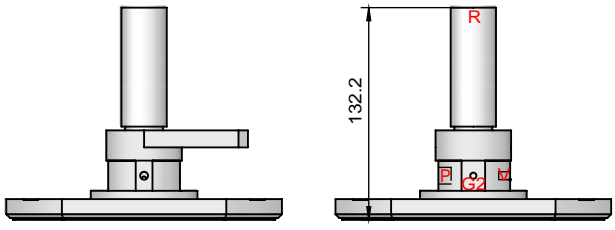


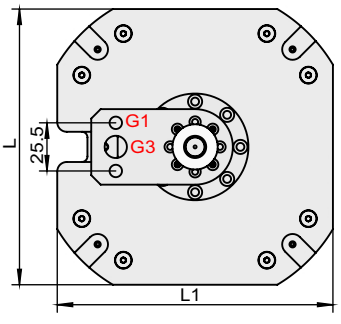


P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (4-M5)
G2: Mounting hole (2-M4)

Model	Size (mm)	
	L	L1
MD AB10 146X146 PEEK	146	146
MD AB20 146X146 PEEK	146	146
MD AB10 100X60 PEEK	60	100
MD AB20 100X60 PEEK	60	100
MD AB10 170X105 PEEK	105	170
MD AB20 170X105 PEEK	105	170
MD AB10 130X65 PEEK	65	130
MD AB20 130X65 PEEK	65	130

Horizontal mounting MD SB...PEEK



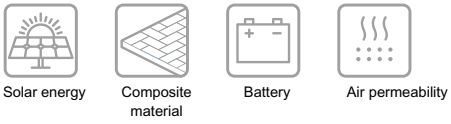


P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (2-φ6.6)
G2: Mounting hole (2-M4)
G3: Mounting hole (G1/4)

Model	Size (mm)	
	L	L1
MD SB10 146X146 PEEK	146	146
MD SB20 146X146 PEEK	146	146
MD SB10 100X60 PEEK	60	100
MD SB20 100X60 PEEK	60	100
MD SB10 170X105 PEEK	105	170
MD SB20 170X105 PEEK	105	170
MD SB10 130X65 PEEK	65	130
MD SB20 130X65 PEEK	65	130

Composite suction cup

MD-POM composite suction cup

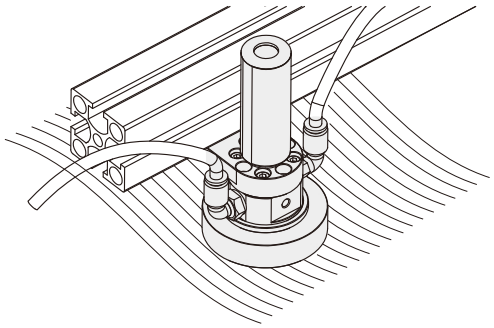




Introduction

- Extremely large vacuum flow
- Generator, suction cup and silencer integrated
- Vertical and horizontal mounting modes
- Suction cup with a porous structure to effectively prevent physical deformation of the workpiece
- Large vacuum flow appropriate to loose and porous workpieces
- Easy mounting with fittings and elements that can be selected according to the actual operating conditions
- Simple structure, integral design, compressed air connected directly without additional generator

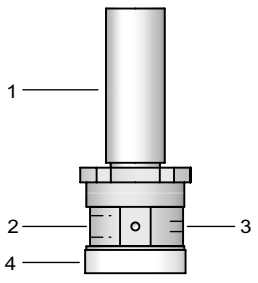
Application of MD-POM composite suction cup



Application

- Applicable to handling light vulnerable workpieces such as mobile phone screen and aluminum foil
- Applicable to handling breathable workpieces such as PCBs and PVC boards
- Applicable to the textile industry, e.g. carbon fiber fabric

System design of MD-POM composite suction cup



Structure

- (1) Silencing tube
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Suction surface

Composite suction cup

MD-POM composite suction cup

AMILA

MD-POM composite suction cup purchase guide

MD AB10 40 POM

① ② ③ ④

① Product series	② Mounting mode and generator type	③ Size specification	④ Material
MD	AB10 - Vertical mounting (vacuum degree - 9Kpa) AB20 - Vertical mounting (vacuum degree - 17Kpa) SB10 - Horizontal mounting (vacuum degree - 9Kpa) SB20 - Horizontal mounting (vacuum degree - 17Kpa)	40 - Φ40mm 60 - Φ60mm	POM

Model specifications of MD-POM composite suction cup

Model specification	AB10	AB20	SB10	SB20
MD□40 POM	●	●	●	●
MD□60 POM	●	●	●	●

Model specifications of MD-POM composite suction cup spare fittings and elements

Model	Silencer	POM
MD□40 POM	ZSA G3/8-AG	40POM
MD□60 POM	ZSA G3/8-AG	60POM

Technical parameters of MD-POM composite suction cup

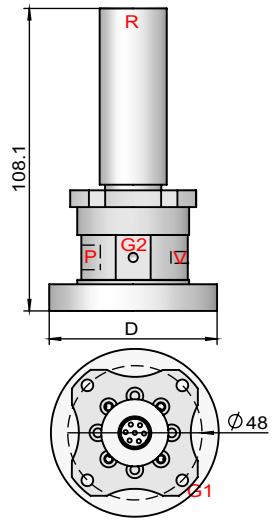
Model	Maximum vacuum degree kPa	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure KG	Weight g
MD AB10...	-9	140…350	40…140	1…5	109
MD AB20...	-17	270…650	60…220	1…5	109
MD SB10...	-9	140…350	40…140	1…5	132.7
MD SB20...	-17	270…650	60…220	1…5	132.7

Composite suction cup

MD-POM composite suction cup

Design parameters of MD-POM composite suction cup

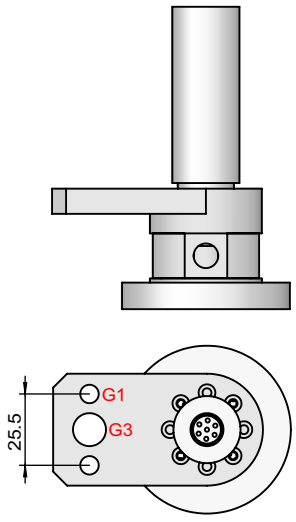
Vertical mounting MD AB...POM

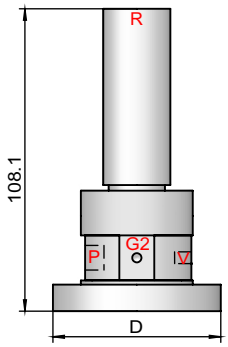


P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (4-M5)
G2: Mounting hole (2-M4)

Model	Size (mm)
	D
MD AB10 40 POM	40
MD AB20 40 POM	40
MD AB10 60 POM	60
MD AB20 60 POM	60

Horizontal mounting MD SB...POM





P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (2-φ6.6)
G2: Mounting hole (2-M4)
G3: Mounting hole (G1/4)

Model	Size (mm)
	D
MD SB10 40 POM	40
MD SB20 40 POM	40
MD SB10 60 POM	60
MD SB20 60 POM	60

Composite suction cup

MD-CUP composite suction cup

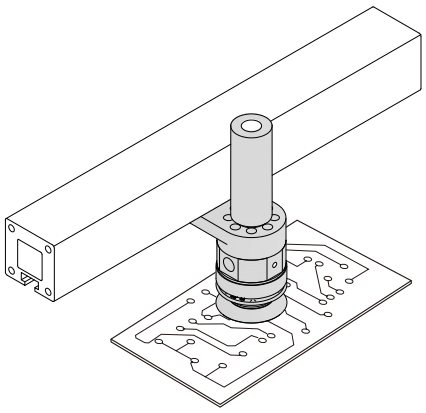
3C product | New energy | Air permeability



Introduction

- Extremely large vacuum flow
- Generator, suction cup and silencer integrated
- Vertical and horizontal mounting modes
- Static-proof rubber suction cup, gentle contact, strong suction force, workpiece surface protection
- Gentle contact without scratching the workpiece being gripped and handled
- Large vacuum flow appropriate to loose and porous workpieces
- Easy mounting with fittings and elements that can be selected according to the actual operating conditions
- Simple structure, integral design, compressed air connected directly without additional generator

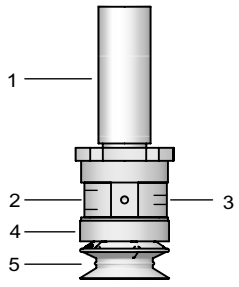
Application of MD-CUP composite suction cup



Application

- Applicable to handling breathable workpieces such as PCBs and PVC boards
- Applicable to the food industry, e.g. biscuits, bread, etc.
- Applicable to suctioning irregular profiled workpieces

System design of MD-CUP composite suction cup



Structure

- (1) Silencing tube
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Connection fastener
- (5) Suction surface

Composite suction cup

MD-CUP composite suction cup

AMILA

MD-CUP composite suction cup purchase guide

MD AB10 20 CUP B-S30

① ② ③ ④ ⑤

① Product series	② Mounting mode and generator type	③ Size specification	④ Suction cup specification	⑤ Material and hardness
MD	AB10 - Vertical mounting (vacuum degree - 9Kpa) AB20 - Vertical mounting (vacuum degree - 17Kpa) SB10 - Horizontal mounting (vacuum degree - 9Kpa) SB20 - Horizontal mounting (vacuum degree - 17Kpa)	15 - Φ15mm 20 - Φ20mm 30 - Φ30mm 40 - Φ40mm 50 - Φ50mm	CUP	B-S30 – 30° silicone H-S50 – 50° silicone B -GS30 - 30° static-proof silicone rubber (Anti-static index:10^5–10^9) H - GS50 - 50° static-proof silicone rubber (Anti-static index:10^5–10^9)

Model specifications of MD-CUP composite suction cup

Model specification	AB10	AB20	SB10	SB20
MD□ 15...	●	●	●	●
MD□ 20...	●	●	●	●
MD□ 30...	●	●	●	●
MD□ 40...	●	●	●	●
MD□ 50...	●	●	●	●

Model specifications of MD-CUP composite suction cup spare fittings and elements

Model	Silencer	CUP B-S30	CUP H-S50	CUP B-GS30	CUP H-GS50
MD□ 15...	ZSA G3/8-AG	–	15 CUP H-S50	–	15 CUP H-GS50
MD□ 20...	ZSA G3/8-AG	20 CUP B-S30	20 CUP H-S50	20 CUP B-GS30	20 CUP H-GS50
MD□ 30...	ZSA G3/8-AG	30 CUP B-S30	30 CUP H-S50	30 CUP B-GS30	30 CUP H-GS50
MD□ 40...	ZSA G3/8-AG	40 CUP B-S30	40 CUP H-S50	40 CUP B-GS30	40 CUP H-GS50
MD□ 50...	ZSA G3/8-AG	50 CUP B-S30	50 CUP H-S50	50 CUP B-GS30	50 CUP H-GS50

Technical parameters of MD-CUP composite suction cup

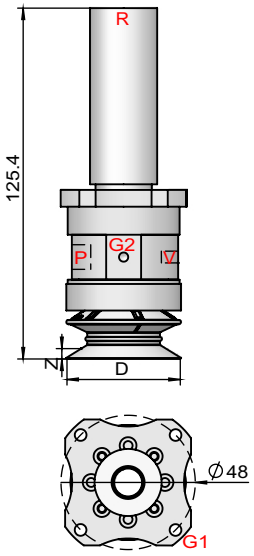
Model	Maximum vacuum degree **kPa**	Maximum vacuum flow rate **l/min**	Air consumption **l/min**	Air intake pressure **KG**	Weight **g**
MD AB10...	-9	140…350	40…140	1…5	109
MD AB20...	-17	270…650	60…220	1…5	109
MD SB10...	-9	140…350	40…140	1…5	132.7
MD SB20...	-17	270…650	60…220	1…5	132.7

Composite suction cup

MD-CUP composite suction cup

Design parameters of MD-CUP composite suction cup

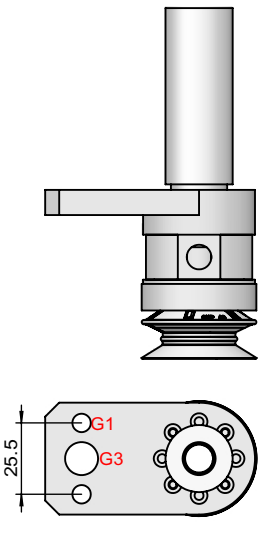
Vertical mounting MD AB...CUP



P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (4-M5)
G2: Mounting hole (2-M4)

Model	Size (mm)	
	Z	D
MD AB10 15 CUP	1.0	15
MD AB20 15 CUP	1.0	15
MD AB10 20 CUP	1.5	20
MD AB20 20 CUP	1.5	20
MD AB10 30 CUP	2.8	30
MD AB20 30 CUP	2.8	30
MD AB10 40 CUP	3.7	40
MD AB20 40 CUP	3.7	40
MD AB10 50 CUP	4.2	50
MD AB20 50 CUP	4.2	50

Horizontal mounting MD SB...CUP



P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (M5)
G1: Mounting hole (2-φ6.6)
G2: Mounting hole (2-M4)
G3: Mounting hole (G1/4)

Model	Size (mm)	
	Z	D
MD SB10 15 CUP	1.0	15
MD SB20 15 CUP	1.0	15
MD SB10 20 CUP	1.5	20
MD SB20 20 CUP	1.5	20
MD SB10 30 CUP	2.8	30
MD SB20 30 CUP	2.8	30
MD SB10 40 CUP	3.7	40
MD SB20 40 CUP	3.7	40
MD SB10 50 CUP	4.2	50
MD SB20 50 CUP	4.2	50

Composite suction cup

MD-MINI composite suction cup

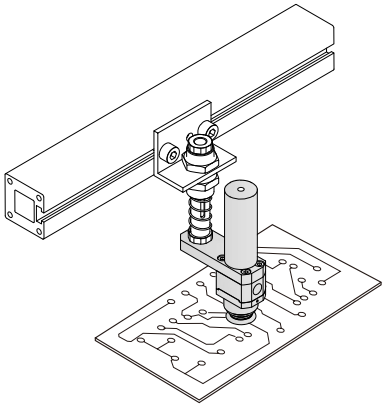
Universal Air permeability Packaging



Introduction

- Smaller size suitable for handling workpieces placed at a small interval
- Vacuum generator, suction cup and silencer integrated
- Horizontal mounting
- Large vacuum flow and a vacuum degree of -17KPA
- Static-proof materials can be used

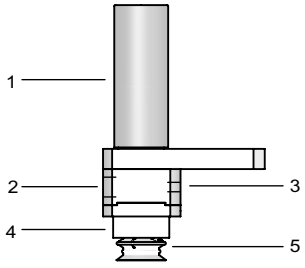
Application of MD-MINI composite suction cup



Application

- Applicable to electronic components and PCBs
- Applicable to food and baked food such as candy, rolls, etc.
- Applicable to gripping breathable profiled products

System design of MD-MINI composite suction cup



Structure

- (1) Silencing tube
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Connection fastener
- (5) Suction surface

Composite suction cup

MD-MINI composite suction cup

AMILA

MD-MINI composite suction cup purchase guide

MD-MINI 20 CUP H-S50

① ② ③ ④

① Product series	② Size specification	③ Suction cup specification	④ Material and hardness
MD-MINI	15 - Φ15mm 20 - Φ20mm 30 - Φ30mm 40 - Φ40mm 50 - Φ50mm	CUP	B-S30 – 30° silicone H-S50 – 50° silicone B -GS30 - 30° static-proof silicone rubber (anti-static index: 10^5–10^9) H -GS50 - 50° static-proof silicone rubber (anti-static index: 10^5–10^9)

Model specifications of MD-MINI composite suction cup spare fittings and elements

Model	Silencer	CUP B-S30	CUP H-S50	CUP B-GS30	CUP H-GS50
MD-MINI 15…	ZSA G3/8-AG	–	15 H-S50	–	15 H-GS50
MD-MINI 20…	ZSA G3/8-AG	20 B-S30	20 H-S50	20 B-GS30	20 H-GS50
MD-MINI 30…	ZSA G3/8-AG	30 B-S30	30 H-S50	30 B-GS30	30 H-GS50
MD-MINI 40…	ZSA G3/8-AG	40 B-S30	40 H-S50	40 B-GS30	40 H-GS50
MD-MINI 50…	ZSA G3/8-AG	50 B-S30	50 H-S50	50 B-GS30	50 H-GS50

Technical parameters of MD-MINI composite suction cup

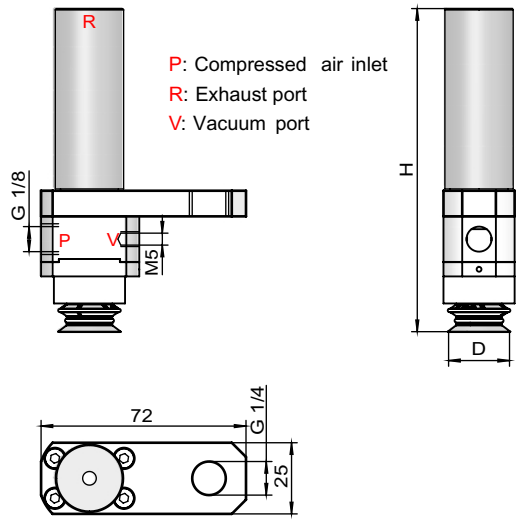
Model	Maximum vacuum degree kPa	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure KG	Weight g
MD-MINI 15…	-17	270…650	60…220	1…5	97.2
MD-MINI 20…	-17	270…650	60…220	1…5	99.8
MD-MINI 30…	-17	270…650	60…220	1…5	102.2
MD-MINI 40…	-17	270…650	60…220	1…5	104.4
MD-MINI 50…	-17	270…650	60…220	1…5	106.2

Composite suction cup

MD-MINI composite suction cup

Design parameters of MD-MINI composite suction cup

MD-MINI...



Model	Size (mm)	
	H	**D**
MD-MINI 15 CUP	110.5	15
MD-MINI 20 CUP	114	20
MD-MINI 30 CUP	117.5	30
MD-MINI 40 CUP	121.5	40
MD-MINI 50 CUP	126	50

Special gripper series

Product overview

Special gripper



209 MBN series
Floating suction cup
◇ Diameter: 20–120mm
◇ Holding force: 2.0–104N

Composite material | Air permeability



212 MGM series
Magnetic gripper
◇ Diameter: 30–70mm
◇ Holding force: 35–290N

Metal sheet



215 MGM-HP series
Magnetic gripper
◇ Diameter: 20–50mm
◇ Holding force: 28-560N

Metal sheet



218 MNG-M series
Needle gripper
◇ Number of steel needles: 32 92
◇ Needle stoke: 0–2mm

Composite material | Textile | Air permeability



221 MNG-X series
Needle gripper
◇ Number of steel needles: 8
◇ Needle stoke: 0–3mm

Composite material | Textile | Air permeability



223 MNG-E series
Needle gripper
◇ Number of steel needles: 4
◇ Needle stoke: 0–3.5mm

Composite material | Textile | Food industry



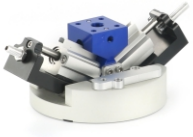
225 MNG-D series
Needle gripper
◇ Number of steel needles: 6
◇ Needle stoke: 0–7m

Composite material | Textile



227 MNG-V series
Needle gripper
◇ Number of steel needles: 10
◇ Needle stoke: 0–14mm

Composite material | Textile



230 MNG-BV series
Needle gripper
◇ Number of steel needles: 10
◇ Needle stoke: 0–7mm

Composite material | Textile



233 MGS series
Spherical gripper
◇ Diameter: 20mm
◇ Maximum suction capacity: 6.6 L/min

Curved surface | Rough surface | Tube | Sphere

Special gripper



235 MVB series
Lifting cylinder
◇ Lifting stoke: 17–30mm
◇ Gripper connecting thread: M5-G1/4

Packaging 3C product Solar energy

Floating suction cup

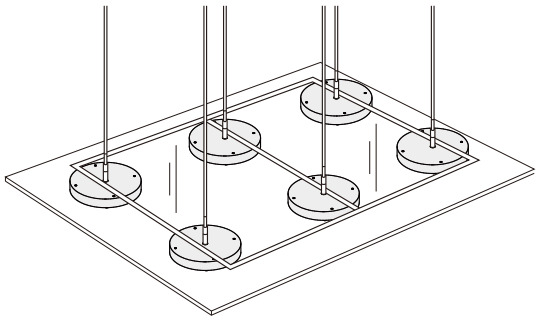
MBN suction cup


Composite material

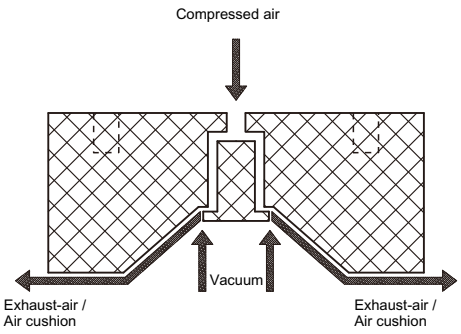

Air permeability



Application of MBN floating suction cup



System design of MBN floating suction cup



Introduction

- The suction cup "floats" on an air cushion
- High volume flow rate at a low vacuum
- No air is drawn in through the workpieces
- Vacuum device manufactured according to Bernoulli's principle
- Can handle workpieces without contacting the workpiece
- Good compensation for air leakage
- Can securely and effectively separate light, thin and breathable workpieces
- Compressed air connected directly without additional generator

Application

- Applicable to handling easily-damaged and sensitive workpiecessuch as silicon wafers, solar cells
- Applicable to handling air permeable workpiece workpieces suchas PCBs, PVC boards, textiles
- Applicable to separating light and thin workpieces such as plastic film, paper

Structure

- 4 threaded holes in the top
- Compressed air inlets in vertical and horizontal directions

Floating suction cup

MBN suction cup

AMILA

MBN suction cup purchase guide

MBN 20 SF M5-IG

① ② ③ ④

① Product series	② Size specification		③ Streaming element	④ Joint specification
MBN	**20** - φ20mm	**60** - φ60mm	SF - Standard Flow	M5-IG - M5 female thread
	30 - φ30mm	**100** - φ100mm	HF - High Flow	G1/8-IG - G1/8 female thread
	40 - φ40mm	**120** - φ120mm		G1/4-IG - G1/4 female thread
				Note: IG=Female thread

Model specifications of MBN floating suction cup

Model specification	M5-IG	G1/8-IG	G1/4-IG
MBN 20 SF	●	-	-
MBN 20 HF	●	-	-
MBN 30 SF	●	-	-
MBN 30 HF	●	-	-
MBN 40 SF	-	●	-
MBN 40 HF	-	●	-
MBN 60 SF	-	●	-
MBN 60 HF	-	●	-
MBN 100 SF	-	-	●
MBN 100 HF	-	-	●
MBN 120 SF	-	-	●
MBN 120 HF	-	-	●

Technical parameters of MBN floating suction cup

Model	Holding force N	Air consumption l/min	Operating pressure bar	Weight g
MBN 20 SF M5-IG	2.0	100	1...6	12
MBN 20 HF M5-IG	3.0	140	1...6	12
MBN 30 SF M5-IG	4.0	100	1...6	31
MBN 30 HF M5-IG	5.0	140	1...6	31
MBN 40 SF GI/8-IG	6.5	100	1...6	51
MBN 40 HF G1/8-IG	10.5	190	1...6	51
MBN 60 SF G1/8-IG	13.0	150	1...6	118
MBN 60 HF G1/8-IG	18.5	225	1...6	118
MBN 100 SF G1/4-IG	46.0	225	1...6	330
MBN 100 HF G1/4-IG	55.5	420	1...6	330
MBN 120 SF G1/4-IG	89.0	225	1...6	500
MBN 120 HF G1/4-IG	104.0	420	1...6	500

Note: MBN (20\30\40\60\100\120 represents diameter); SF: standard flow; HF: high flow; IG: female thread

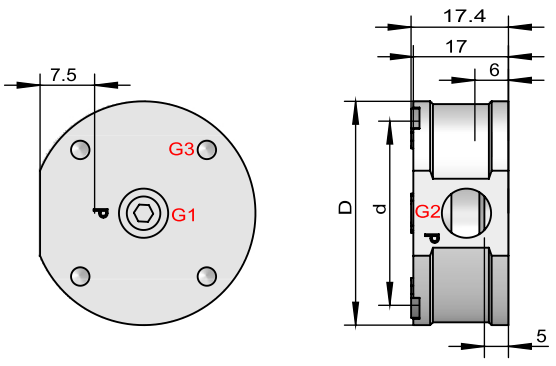
Floating suction cup

MBN suction cup

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Design parameters of MBN floating suction cup

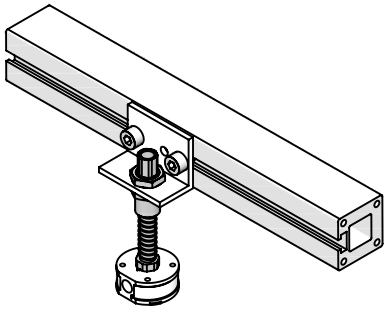
MBN



G1: Compressed air inlet
G2: Compressed air inlet
G3: Mounting hole

Model	Size (mm)				
	D	d	G1	G2	G3
MBN 20 SF M5-IG	20	15	M5-IG	M5-IG	M3-IG
MBN 20 HF M5-IG	20	15	M5-IG	M5-IG	M3-IG
MBN 30 SF M5-IG	30	22	M5-IG	M5-IG	M4-IG
MBN 30 HF M5-IG	30	22	M5-IG	M5-IG	M4-IG
MBN 40 SF GI/8-IG	40	32	G1/8-IG	G1/8-IG	M4-IG
MBN 40 HF G1/8-IG	40	32	G1/8-IG	G1/8-IG	M4-IG
MBN 60 SF G1/8-IG	60	45	G1/8-IG	G1/8-IG	M4-IG
MBN 60 HF G1/8-IG	60	45	G1/8-IG	G1/8-IG	M4-IG
MBN 100 SF G1/4-IG	100	75	G1/4-IG	G1/8-IG	M4-IG
MBN 100 HF G1/4-IG	100	75	G1/4-IG	G1/8-IG	M4-IG
MBN 120 HF G1/4-IG	120	105	G1/4-IG	G1/8-IG	M4-IG
MBN 120 SF G1/4-IG	120	105	G1/4-IG	G1/8-IG	M4-IG

MBN floating suction cu ipnstallation illustration



Recommended buffer plunger specifications

Type	Model
Buffer plunger	MTE G1/8-AG □-M16(VG)
	MTE G1/4-AG □-M20(VG)

Magnetic gripper

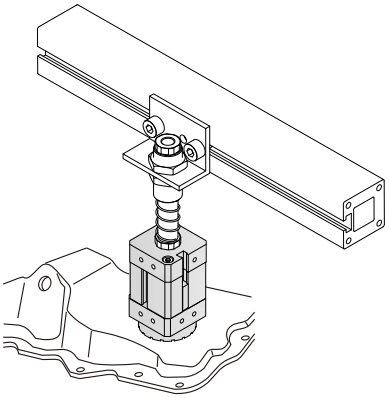
MGM magnetic gripper



Introduction

- Grip the workpiece with magnetic force
- Safe gripping by a permanent magnet
- A plurality of installation specifications
- No power required
- Small size, lightweight, easy installation
- The difficulty-damaged friction ring,easily replaceable

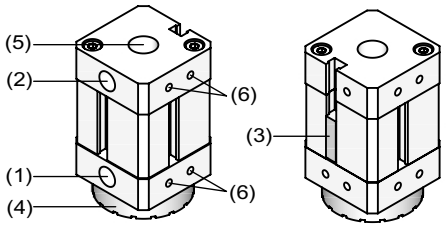
Application of MGM magnetic gripper



Application

- Applicable to handling ferromagnetic workpieces
- Applicable to handling of perforated metal sheets, complex laser-cut workpieces and metal sheets with holes and apertures

System design of MGM magnetic gripper



Structure

- (1) Air port (release)
- (2) Air port (suction)
- (3) Magnetic switch
- (4) Friction ring
- (5) Central threaded mounting hole
- (6) Side threaded mounting holes

Magnetic gripper

MGM magnetic gripper

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MGM magnetic gripper purchase guide

MGM 30 G1/8-IG TN

① ② ③ ④

① Product series	② Size specification	③ Joint specification	④ Switching function sensor
MGM	**30** - Φ30mm **40** - Φ40mm **50** - Φ50mm **70** - Φ70mm	G1/8-IG -G1/8 female thread G1/4-IG -G1/4 female thread Note: IG=Female thread	Null - No sensor TN - NPN sensor TP - PNP sensor

Model specifications of MGM magnetic gripper

Model specification	G1/8-IG	G1/4-IG
MGM 30...	●	-
MGM 40...	-	●
MGM 50...	-	●
MGM 70...	-	●

Spare sensor and element model selection guide

Magnetic switch model	Applicable Suction Cup
DMSE-NPN-020	**MGM 30/40/50/70**
DMSE-PNP-020	**MGM 30/40/50/70**

Technical parameters of MGM magnetic gripper

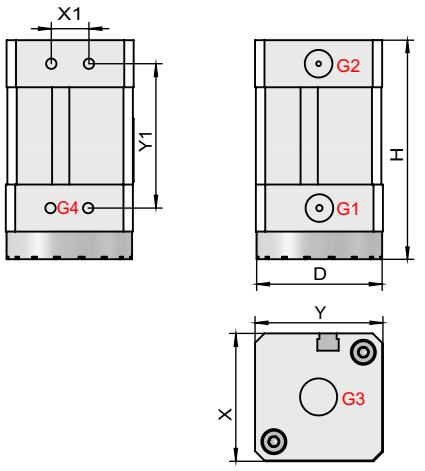
Model	Holding force N	Remaining force N	Operating pressure bar	Control pressure range bar	Operating temperature ℃	Weight g
MGM 30 G1/8-IG □	35	0.3	3.5...6	-0.6	5...70	130
MGM 40 G1/4-IG □	100	0.3	3.5...6	-0.6	5...70	240
MGM 50 G1/4-IG □	180	0.3	3.5...6	-0.6	5...70	440
MGM 70 G1/4-IG □	290	0.3	3.5...6	-0.6	5...70	715

Magnetic gripper

MGM magnetic gripper

Design parameters of MGM magnetic gripper

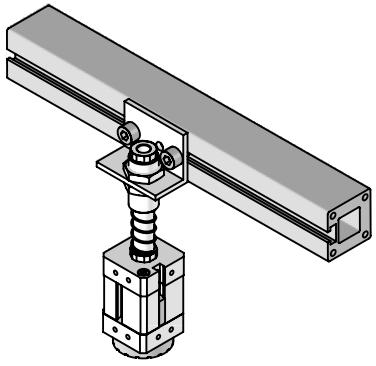
MGM 30 to 70...



G1: Compressed air inlet (G1/8)
G2: Compressed air inlet (G1/8)
G3: Mounting hole
G4: Mounting hole

Model	Size (mm)							
	D	H	X	Y	X1	Y1	G3	G4
MGM 30 G1/8-IG □	30	70.2	29.5	29.5	12	46	G1/8	M4
MGM 40 G1/4-IG □	40	70.2	40.5	40.5	12	46	G1/4	M4
MGM 50 G1/4-IG □	50	80.2	50.5	50.5	15	58	G1/4	M5
MGM 70 G1/4-IG □	70	80.2	68	68	15	58	G1/4	M5

MGM magnetic gripper installation illustration



Recommended buffer plunger specifications

Name	Model
Buffer plunger	MTE G1/8-AG □ -M16-VG
	MTE G1/4-AG □ -M20-VG

Magnetic gripper (with high-magnetism)

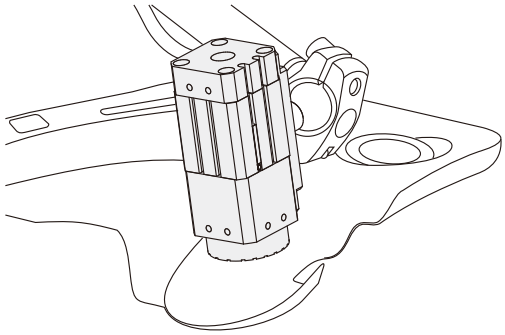
MGM-HP magnetic gripper



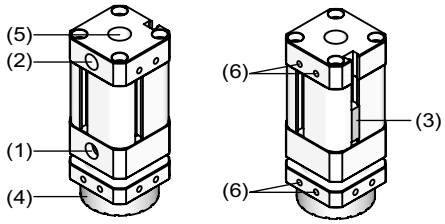
Metal sheet



Application of MGM-HP magnetic gripper



System design of MGM-HP magnetic gripper



Introduction

- Grip the workpiece with magnetic force
- Safe gripping by a permanent magnet
- A plurality of installation specifications
- No power required
- Small size, lightweight, easy installation
- The difficulty-damaged friction ring,easily replaceable
- High magnetism

Application

- Applicable to handling ferromagnetic workpieces
- Applicable to handling of perforated metal sheets, complex laser-cut workpieces and metal sheets with holes and apertures

Structure

- (1) Air port (release)
- (2) Air port (suction)
- (3) Magnetic switch
- (4) Friction ring,
- (5) Central threaded mounting hole
- (6) Side threaded mounting holes

Magnetic gripper (with high-magnetism)

MGM-HP magnetic gripper

AMILA

MGM-HP magnetic gripper purchase guide

MGM-HP 20 G1/8-IG TN

① ② ③ ④

① Product series	② Size specification	③ Joint specification	④ Sensor
MGM-HP	**20** - Φ20mm	G1/8-IG - G1/8 female thread	Null - No sensor
	30 - Φ30mm	G1/4-IG - G1/4 female thread	TN - NPN sensor
	40 - Φ40mm	Note: IG=Female thread	TP - PNP sensor
	50 - Φ50mm		

Model specifications of MGM-HP magnetic gripper

Model specification	G1/8-IG	G1/4-IG
MGM-HP 20...	●	-
MGM-HP 30...	●	-
MGM-HP 40...	-	●
MGM-HP 50...	-	●

Spare sensor and element model selection guide

Magnetic switch model	Applicable Suction Cup
DMSE-NPN-020	**MGM-HP 20/30/40/50**
DMSE-PNP-020	**MGM-HP 20/30/40/50**

Technical parameters of MGM magnetic gripper

Model	Suction force N	Operating pressure range bar	Operating temperature ℃	Weight g
MGM-HP 20 G1/8-IG □	28	2.5...6	5...70	81
MGM-HP 30 G1/8-IG □	120	2.5...6	5...70	215
MGM-HP 40 G1/4-IG □	290	2.5...6	5...70	415
MGM-HP 50 G1/4-IG □	560	2.5...6	5...70	770

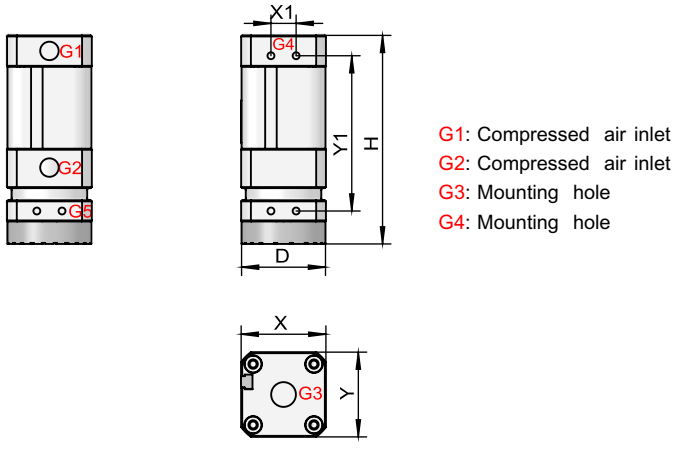
Magnetic gripper (with high-magnetism)

MGM-HP magnetic gripper

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Design parameters of MGM-HP magnetic gripper

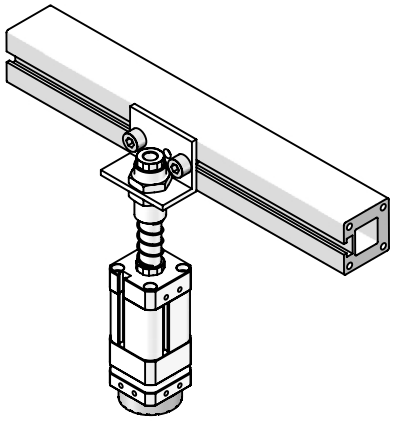
MGM-HP 20to 50...



G1: Compressed air inlet
G2: Compressed air inlet
G3: Mounting hole
G4: Mounting hole

Model	Size (mm)										
	D	H	X	Y	X1	Y1	G1	G2	G3	G4	G5
MGM-HP 20 G1/8-IG ☐	20	78.2	20.4	20.4	6.5	55	M5	M5	G1/8	M3	M3
MGM-HP 30 G1/8-IG ☐	30	99.4	30.4	30.4	12	74	G1/8	G1/8	G1/8	M4	M4
MGM-HP 40 G1/4-IG ☐	40	99.4	40.4	40.4	12	74	G1/8	G1/8	G1/4	M4	M4
MGM-HP 50 G1/4-IG ☐	50	123.4	50.4	50.4	15	100	G1/8	G1/8	G1/4	M5	M4

MGM-HP magnetic gripper installation illustration



Recommended buffer plunger specifications

Name	Model
Buffer plunger	MTE G1/8-AG ☐ -M16-VG
	MTE G1/4-AG ☐ -M20-VG

Needle gripper

MNG-M needle gripper


Composite material


Textile

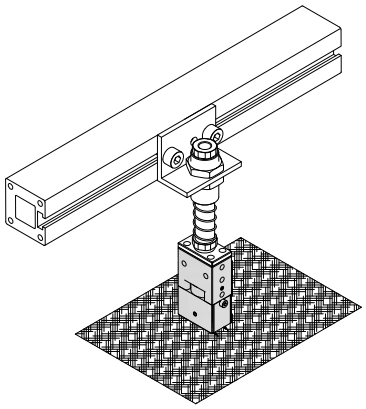

Air permeability



Introduction

- The small needles are inserted shallowly and can be quickly released
- Handle air permeable thin workpiece
- Adjustable needles' stoke
- Double-row needles

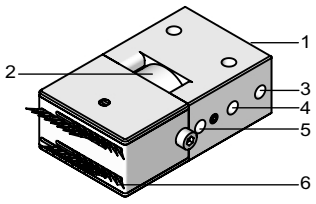
Application of MNG-M needle gripper



Application

- Handling materials that are difficult to grip using vacuum, such as composite textiles, wool, filters, woven glass fibers or carbon fibers, woven aromatic polyamide fibers, foam materials, etc

System design of MNG-M needle gripper



Structure

- (1) Main body
- (2) Stoke adjusting nut
- (3) Compressed air inlet control needle sticking out
- (4) Compressed air inlet control needle retracted
- (5) Compressed air back-blowing port
- (6) Steel needle

Needle gripper

MNG-M needle gripper

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MNG-M needle gripper purchase guide

MNG-M 32 07 V 2

① ② ③ ④ ⑤

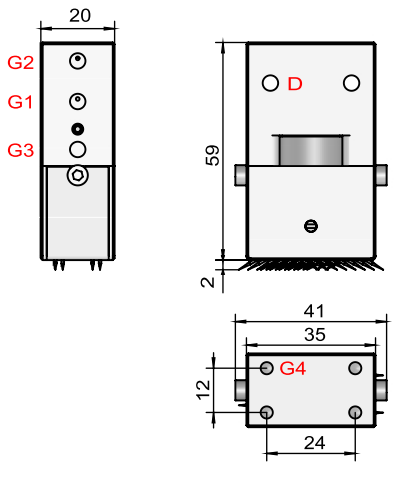
① Product series	② Number of steel needles	③ Steel needle diameter	④ Additional function	⑤ Adjustable stoke
MNG-M	**32** **92**	**07** - Φ0.7mm	**V** - Ordinary steel needle	2mm

Technical parameters of MNG-M needle gripper

Model	Number of steel needles	Steel needle diameter mm	Operating pressure bar	Operating temperature ℃	Weight g	Stoke mm
MNG-M 32...	32	0.7	3.0...6.0	5...60	110	2
MNG-M 92...	92	0.7	3.0...6.0	5...60	140	2

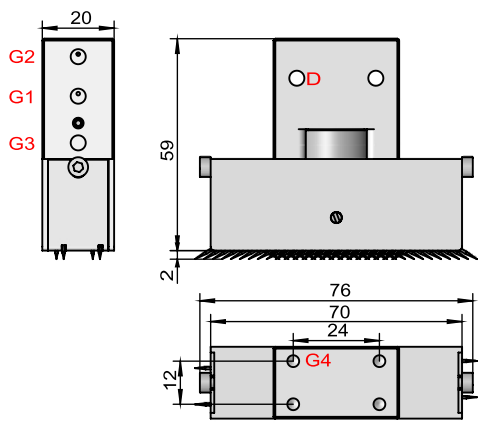
Technical parameters of MNG-M needle gripper

MNG-M 32...



G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
G3: Blowing port (M5)
G4: Mounting hole (M4)
D: Mounting hole (φ4.2)

MNG-M 92...



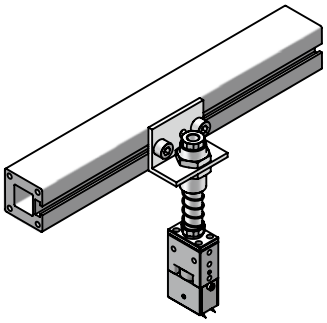
G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
G3: Blowing port (M5)
G4: Mounting hole (M4)
D: Mounting hole (φ4.2)

Needle gripper

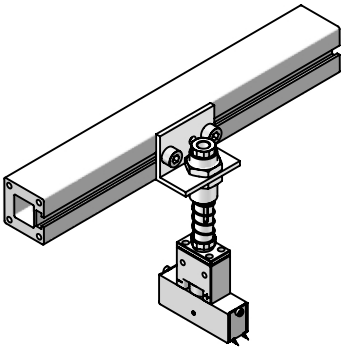
MNG-M needle gripper

MNG-M needle gripper installation illustration

MNG-M 32...

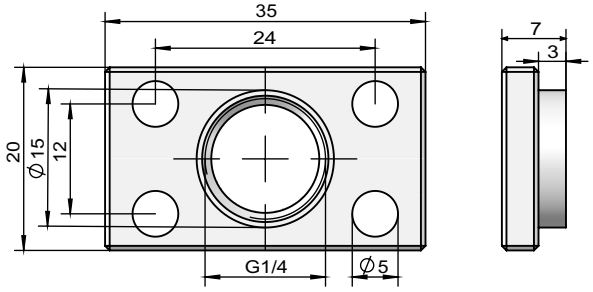


MNG-M 92...



Mounting plate design parameters

MNG-M FL



Model specifications of MNG-M needle gripper fittings

Name	Model
Needle gripper mounting plate	MNG-M FL

Recommended buffer plunger specifications

Name	Model
Buffer plunger	MTE G1/4-AG□-VG

Needle gripper

MNG-X needle gripper

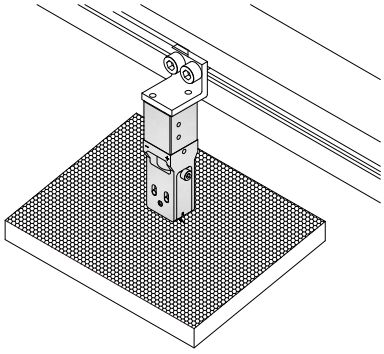

Composite material


Textile

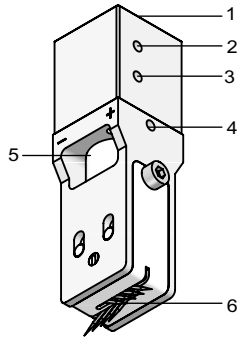

Air permeability



Application of MNG-X needle gripper



System design of MNG-X needle gripper



Introduction

- The small needles are inserted shallowly and can be quickly released
- Handle air permeable thin workpiece
- Adjustable needles' stoke
- Small gripping area applicable to places with limited installation space
- Single-row needles

Application

- Handles materials hardly suctioned by a vacuum, such as composite textiles, wool, filters, woven glass fibers or carbon fibers, woven aromatic polyamide fibers, foam materials, etc.

Structure

- (1) Main body
- (2) Compressed air inlet control needle sticking out
- (3) Compressed air inlet control needle retracted
- (4) Compressed air back-blowing port
- (5) Stoke adjusting nut
- (6) Steel needle

Needle gripper

MNG-X needle gripper

AMILA

MNG-X needle gripper purchase guide

MNG-X 8 07 V 3

① ② ③ ④ ⑤

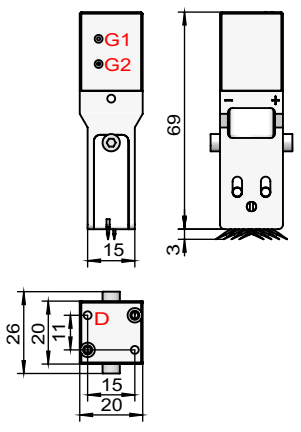
① Product series	②Number of steel needles	③ Steel needle diameter	④ Additional function	⑤Adjustable Stoke
MNG-X	**8**	**07** - Φ0.7mm	**V** - Ordinary steel needle	3mm

Technical parameters of MNG-X needle gripper

Model	Number of steel needles	Steel needle diameter mm	Operating pressure bar	Operating temperature ℃	Weight g	Stoke mm
MNG-X...	8	0.7	3.0...6.0	5...60	85	3

Design parameters of MNG-X needle gripper

MNG-X...



G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
D: Mounting hole (2-M4)

Needle gripper

MNG-E needle gripper

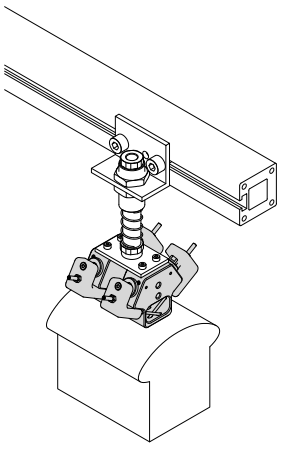

Composite material


Textile

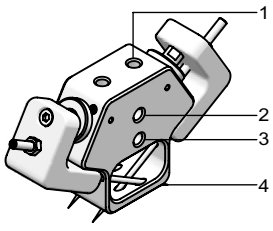

Food industry



Application of MNG-E needle gripper



System design of MNG-E needle gripper



Introduction

- Handling in scenarios where a vacuum cannot be formed
- Adjustable Stoke
- Material of main body and steel needle: sus316

Application

- Applicable to the food industry, e.g., gripping bread, pancakes, etc.

Structure

- (1) Mounting hole
- (2) Compressed air inlet control needle sticking out
- (3) Compressed air inlet control needle retracted
- (4) Steel needle

Needle gripper

MNG-E needle gripper

AMILA

MNG-E needle gripper purchase guide

MNG-E 4 2.0 V-HT 3.5

① ② ③ ④ ⑤

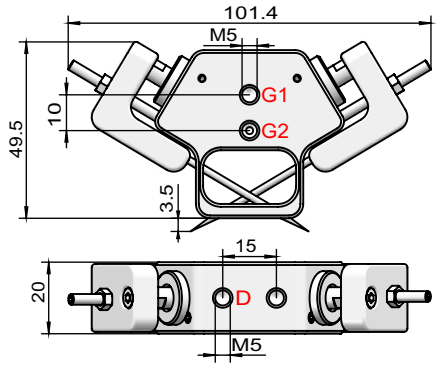
① Product series	②Number of steel needles	③Steel needle diameter	④ Additional function	⑤Adjustable Stoke
MNG-E	**4**	**2.0** - Φ2.0mm	**V-HT** - Stainless steel needle	3.5mm

Technical parameters of MNG-E needle gripper

Model	Number of steel needles	Steel needle diameter	Additional function	Operating pressure	Operating temperature	Weight	Stoke
		mm		bar	℃	g	mm
MNG-E 4 2.0...	4	2.0	Adjustable Stoke	3.0...7.0	5...60	320	3.5

Design parameters of MNG-E needle gripper

MNG-E...



G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
D: Mounting hole (M5)

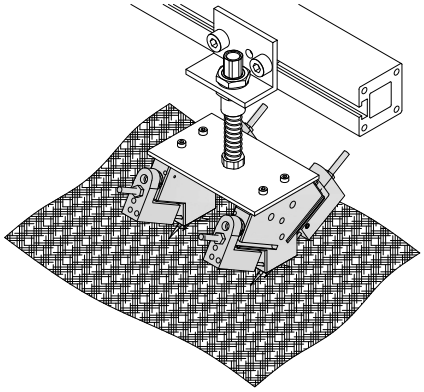
Needle gripper
MNG-D needle gripper


Composite material

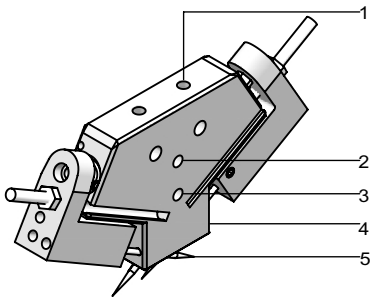

Textile



Application of MNG-D needle gripper



System design of MNG-D needle gripper



Introduction

- The aluminum main body has an air cylinder inside to control the sticking out and retraction of needles
- Crossed needles
- Adjustable Stoke of steel needles
- Small thickness

Application

- Suitable for special applications with limited installation space

Structure

- (1) Mounting hole
- (2) Compressed air inlet control needle sticking out
- (3) Compressed air inlet control needle retracted
- (4) Main body
- (5) Steel needle

Needle gripper
MNG-D needle gripper

AMILA

MNG-D needle gripper purchase guide

MNG-D 6 2.0 V-HT 7

① ② ③ ④ ⑤

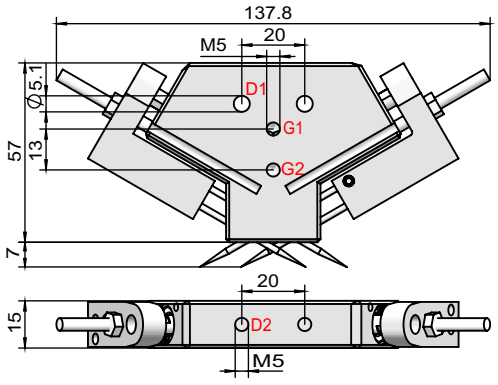
① Product series	②Number of steel needles	③Steel needle diameter	④ Additional function	⑤Adjustable Stoke
MNG-D	**6**	**2.0** - Φ2.0mm	**V-HT** - Stainless steel needle	7mm

Technical parameters of MNG-E needle gripper

Model	Number of steel needles	Steel needle diameter	Additional function	Operating pressure	Operating temperature	Weight	Stoke
		mm		bar	℃	g	mm
MNG-D	6	2.0	Adjustable Stoke	3.0...7.0	5...60	168	7

Design parameters of MNG-D needle gripper

MNG-D...



G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
D1: Mounting hole (φ5.1)
D2: Mounting hole (M5)

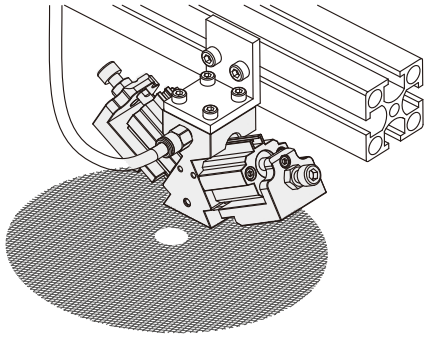
Needle gripper
MNG-V needle gripper


Composite material

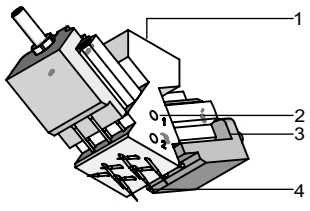

Textile



Application of MNG-V needle gripper



System design of MNG-V needle gripper



Introduction

- Grips workpieces with steel needles
- Double cylinders to control the sticking out and retraction of needles
- Crossed needles, adjustable Stoke of steel needles, less effective contact area
- Handles small workpieces
- Easily-controlled pneumatic valve
- Short operating cycle, faster processing
- Handles long thin workpieces or workpieces in different shapes
- Prevents workpiece falling during power-down
- Workpiece thickness, size and shape set respectively
- Securely suctions highly breathable workpieces that can hardly be handled via a vacuum

Application

- Steel needles with a plurality of diameters; fixed or adjustable needle stoke; used to handle non-rigid and flexible porous materials that can hardly be picked up via a vacuum, such as composite fibers, down woven articles, filtering materials, woven glass fibers or carbon fibers, thermal insulation and foam materials, etc.

Structure

- (1) Main body
- (2) Compressed air inlet control needle sticking out
- (3) Compressed air inlet control needle retracted
- (4) Steel needle

Needle gripper
MNG-V needle gripper

AMILA

MNG-V needle gripper purchase guide

MNG-V 10 1.2 V-HT 7

① ② ③ ④ ⑤

① Product series	②Number of steel needles	③Steel needle diameter	④ Additional function	⑤Adjustable Stoke
MNG-V	**10**	**1.2** - Φ1.2mm	**V** - Ordinary steel needle	7mm
		4.0 - Φ4.0mm	**V-HT** - Stainless steel needle	14mm

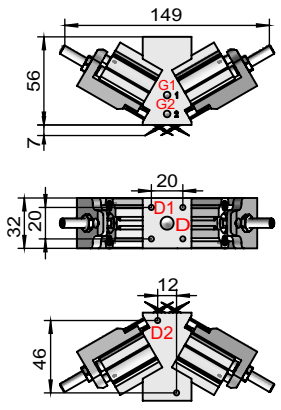
Note: The adjustable Stoke of 1.2mm steel needle is 7mm; 4.0mm steel needle 14mm. Only the V-HT stainless steel needle can be selected.

Technical parameters of MNG-V needle gripper

Model	Number of steel needles	Steel needle diameter mm	Additional function	Operating pressure bar	Operating temperature ℃	Weight g	Stoke mm
MNG-V 10 1.2...	10	1.2	Adjustable Stoke	3.0...7.0	5...60	265	7
MNG-V 10 4.0...	10	4.0		3.0...7.0	5...60	1050	14

Design parameters of MNG-V needle gripper

MNG-V 10 1.2...



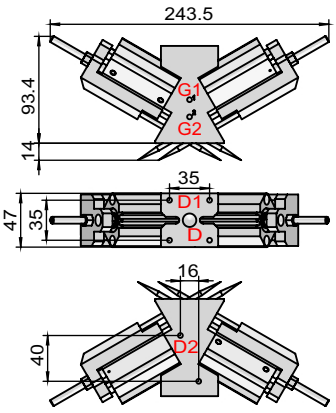
G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
D1: Mounting hole (G1/8)
D1: Mounting hole (M4)
D2: Mounting hole (M4)

Needle gripper
MNG-V needle gripper

AMILA

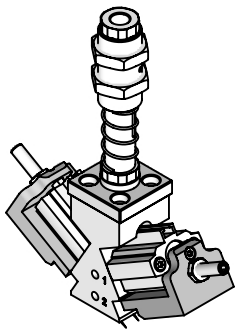
Design parameters of MNG-V needle gripper

MNG-V 10 4.0...



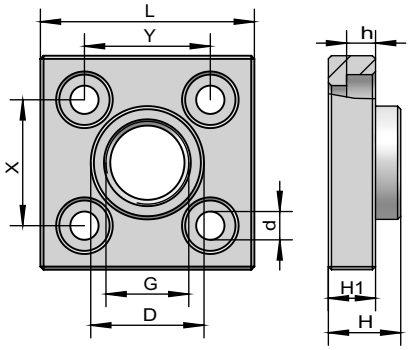
G1: Compressed air inlet (M5)
G2: Compressed air inlet (M5)
D1: Mounting hole (G1/4)
D1: Mounting hole (M5)
D2: Mounting hole (M5)

MNG-V needle gripper installation illustration



Model specifications of MNG-V needle gripper fittings

MNG-V □ FL



Model	Size (mm)								
	L	X	Y	H	H1	h	D	d	G
MNG-V 1.2 FL	34	20	20	11.5	7.5	4.6	18	4.5	G1/8
MNG-V 4.0 FL	50	35	35	14	10	5.7	24	5.5	G3/8

Recommended buffer plunger specifications

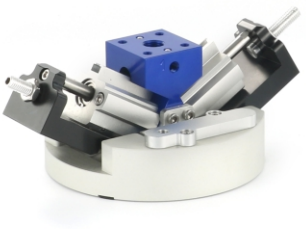
Name	Model
Buffer plunger	MTE G1/4-AG□-VG
	MTE G3/8-AG□-VG

Needle gripper + floating gripper

MNG-BV pneumatic needle gripper


Composite material

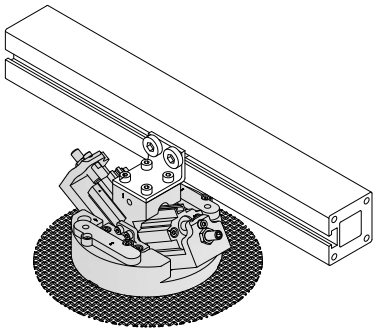

Textile



Introduction

- Used to handle non-rigid and highly porous materials (mainly textiles)
- Handles composite textiles that are hardly be gripped via a vacuum, such as wool, filtering materials, insulation and foam materials, etc.
- With a needle positioning function to enable accurate positioning of the product
- An additional function of floating gripping enables textiles to be suctioned evenly

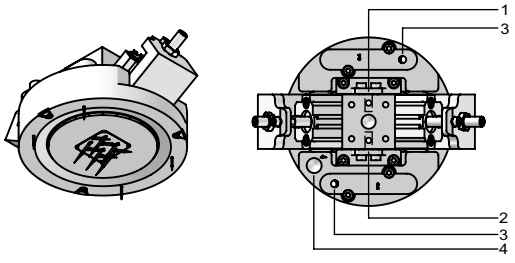
Application of MNG-BV needle gripper



Application

- Reliable separation achieved by means of Bernoulli's principle
- Crossed needles enable even quite unstable workpieces to be fixed securely
- Adjustable needle stoke can adapt to various workpieces in a personalized way
- The floating gripper is equipped optionally to enable flexible processing

System design of MNG-BV needle gripper



Structure

- Robust aluminum casing
- The compressed air port 1 control cylinder drives the 1.2 mm needle to stick out and is inserted at 30°
- The compressed air port 2 control cylinder drives the 1.2 mm needle to retract
- The compressed air port 3 control cylinder controls the 0.8 mm needle to achieve positioning
- The compressed air port 4 supplies compressed air to achieve traceless reinforced suction

Needle gripper + floating gripper

MNG-BV pneumatic needle gripper

AMILA

MNG-BV needle gripper purchase guide

MNG-BV 10 1.2 V 7

① ② ③ ④ ⑤

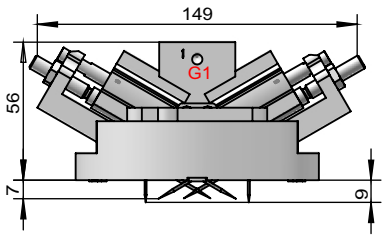
① Product series	②Number of steel needles	③Steel needle diameter	④ Additional function	⑤Adjustable Stoke
MNG-BV	**10**	**1.2** - φ1.2mm	**V** - Ordinary steel needle **V-HT** - Stainless steel needle	7mm

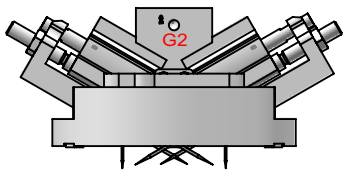
Technical parameters of MNG-BV needle gripper

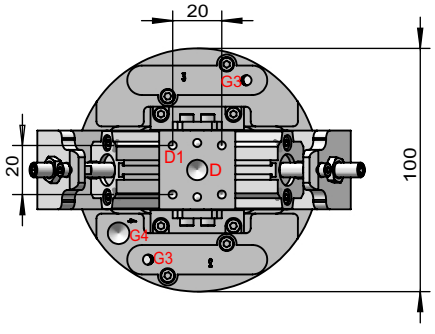
Abbreviation	Number of steel needles	Steel needle diameter mm	Adjustable Stoke mm	Function
MNG-BV	10	1.2	7	Adjustable needle Stoke, needle positioning function, no floating gripper function

Design parameters of MNG-BV needle gripper

MNG-BV





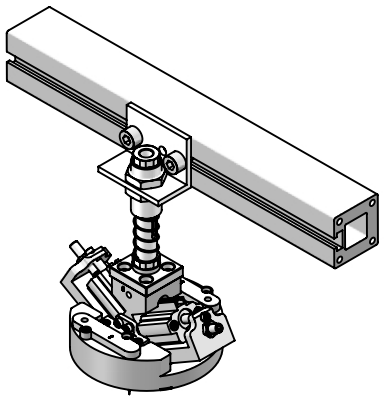


G1: Cylinder air inlet (M5)
G2: Cylinder air inlet (M5)
G3: Positioning needle air inlet (M5)
G4: Floating gripper air inlet (G1/8)
D: Mounting hole (G1/8)
D1: Mounting hole (4-M5)

Needle gripper + floating gripper

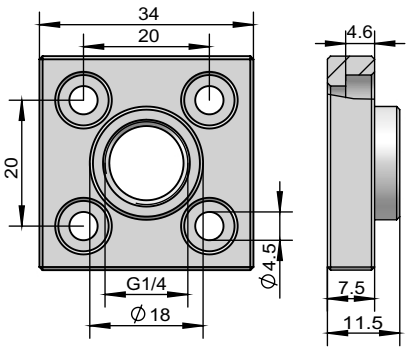
MNG-BV pneumatic needle gripper

MNG-BV needle gripper installation illustration



Mounting plate design parameters

MNG-V FL



Model specifications of MNG-BV needle gripper fittings

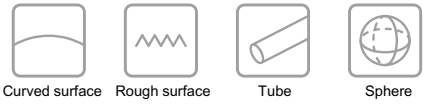
Name	Model
Needle gripper mounting plate	MNG-V 1.2 FL

Recommended buffer plunger specifications

Name	Model
Buffer plunger	MTE G1/4-AG□

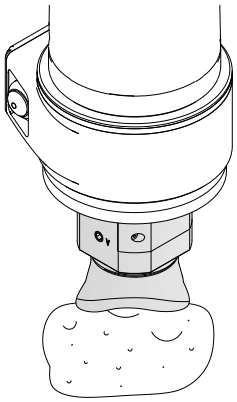
Spherical gripper

MGS spherical gripper

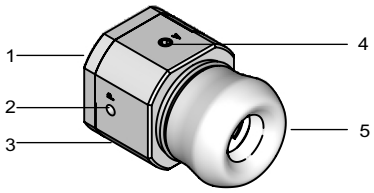




Application of MGS spherical gripper



System design of MGS spherical gripper



Introduction

- Compressed air inlet with M5 thread
- Applicable to a plurality of products, especially irregular rough surfaces
- A special air ring adaptable to irregular surfaces and surfaces contacted gently

Application

- Applicable to irregular surfaces and curved surfaces such as fruit, vegetables, pens, wrenches, etc.
- Applicable to surfaces that should be contacted gently, such as chargers, portable chargers, cups, etc.

Structure

- (1) Top cover
- (2) Compressed air inlet
- (3) Main body
- (4) Vacuum detection port
- (5) Air ring

Spherical gripper

MGS spherical gripper

MGS spherical gripper purchase guide

MGS 20

① ②

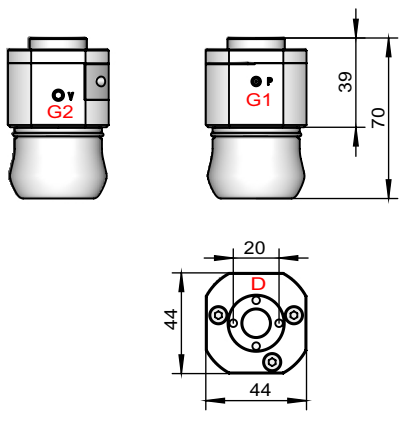
① Product series	② Specification
MGS	**20** - Φ20mm

Technical parameters of MGS spherical gripper

Model	Maximum vacuum degree **-kpa**	Maximum suction capacity **l/min**	Air consumption **l/min**	Operating pressure **bar**	Operating temperature ℃	Weight **g**
MGS 20	80	6.6	15	0.35	0-50	180

Design parameters of MGS spherical gripper

MGS 20



G1: Compressed air inlet (M5)
G2: Vacuum port (M5)
D: Mounting hole (M4)

MVB negative-pressure lifting cylinder

MVB negative-pressure lifting cylinder

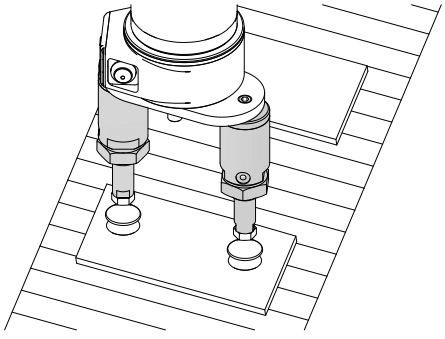
Packaging 3C product Solar energy



Introduction

- After the vacuum is formed, the gripper mounted on the cylinder will quickly stick out along with the cylinder, and will automatically rise and keep suctioning after contacting the suctioned object
- Short cycle, control by a single vacuum throttle valve, automatic compensation for the height of the suctioned object, no piston rotation, easy operation

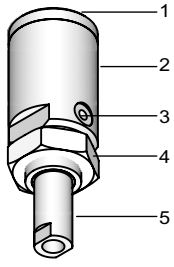
Application of MVB negative-pressure lifting cylinder



Application

- Used to suction machined, press-molded or hot-formed objects or separate paper, plastics, steel plates, etc.
- For example, wafer-by-wafer handling of silicon wafers, IC cards, manuals, etc.

System design of MVB negative-pressure lifting cylinder



Structure

- (1) Top cover
- (2) Main body
- (3) Vacuum source connecting port
- (4) Mounting nut
- (5) Telescopic rod

MVB negative-pressure lifting cylinder

MVB negative-pressure lifting cylinder

MVB negative-pressure lifting cylinder purchase guide

MVB 5

① ②

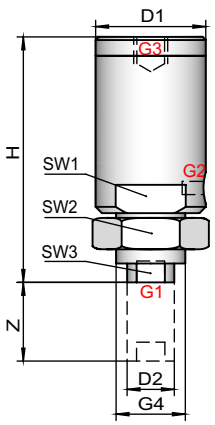
① Product series	② Specification
MVB	**5** **10** **15**

Technical parameters of MVB negative-pressure lifting cylinder

Model	-80KPa Thrust force N	-80KPa Lifting force N	Minimum cycle time s	Minimum vacuum degree -Kpa	Minimum operating flow rate Nl/s	Operating temperature ℃	Lifting Stoke mm	Weight g
MVB 5	20	4.5	0.3	60	15	5…80	17	55
MVB 10	43	10	0.4	60	30	5…80	25	145
MVB 15	120	25	0.6	60	90	5…80	30	515

Design parameters of MVB negative-pressure lifting cylinder

MVB 5 to 15



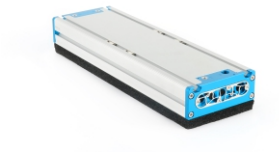
G1: Connecting thread
G2: Vacuum port
G3: Mounting hole

Model	Size (mm)										
	D1	**D2**	**H**	**Z**	**SW1**	**SW2**	**SW3**	**G1**	**G2**	**G3**	**G4**
MVB 5	24	10	55.5	17	19	24	8	M5-IG	M5-IG	M6-IG	M16×1.5-AG
MVB 10	35	15	78	25	27	32	12	G1/8-IG	M5-IG	G1/8-IG	M22×1.5-AG
MVB 15	59	22	92	30	50	55	17	G1/4-IG	G1/8-IG	M10-IG	M40×1.5-AG

Vacuum gripper system

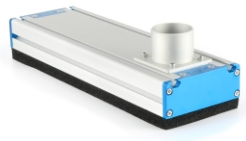
Product overview

Vacuum gripping system



239 ATC ...3R18/5R18 series
Foam gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: Foam
◇ Width: 130mm

General-purpose



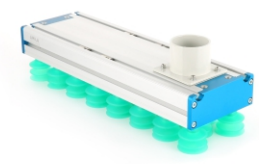
246 ATD ...3R18/5R18 series
Foam gripper
◇ Vacuum type: External blower
◇ Suction surface type: Foam
◇ Width: 130mm

General-purpose



252 ATC ... B40/B20 series
Rubber vacuum gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: rubber cup
◇ Width: 130mm

General-purpose



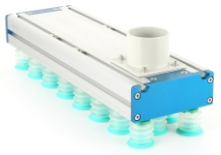
259 ATD ... B40/B20 series
Rubber vacuum gripper
◇ Vacuum type: External blower
◇ Suction surface type: rubber cup
◇ Width: 130mm

General-purpose



265 ATC ... MX39/ MX55 series
Combined vacuum gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: rubber cup
◇ Width: 130mm

General-purpose



271 ATD ... MX39/ MX55 series
Combined vacuum gripper
◇ Vacuum type: External blower
◇ Suction surface type: rubber cup
◇ Width: 130mm

General-purpose



276 ATE series
Foam gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: Foam
◇ Width: 65mm

General-purpose



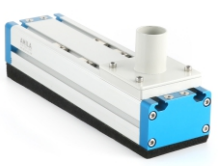
281 ATF series
Foam gripper
◇ Vacuum type: External blower
◇ Suction surface type: Foam
◇ Width: 65mm

General-purpose



286 ATS series
Foam gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: Foam
◇ Width: 80mm

General-purpose



291 ATK series
Foam gripper
◇ Vacuum type: External blower
◇ Suction surface type: Foam
◇ Width: 80mm

General-purpose

Vacuum gripper series

Product overview

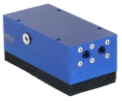
AMILA

Vacuum gripping system



296 MPT series
Mini foam gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: Foam

3C electronic Packing



302 ABX series
Foam gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: Foam

3C electronic Packing



298 MPM series
Mini foam gripper
◇ Vacuum type: External vacuum source
◇ Suction surface type: Foam

3C electronic Packing



304 MSG series
Soft bag vacuum gripper
◇ Vacuum type: Internal generator /External blower
◇ Suction surface type: Foam

Packing



300 ATX series
Foam gripper
◇ Vacuum type: Internal generator
◇ Suction surface type: Foam

3C electronic Packing



307 MSC series
Soft bag vacuum gripper
◇ Vacuum type: Internal generator /External blower
◇ Suction surface type: POM

Packing

Vacuum gripper (customizable)



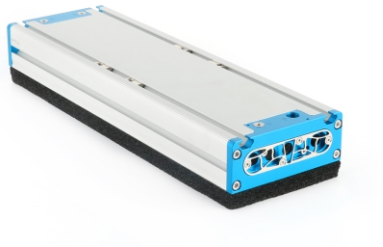
310 MATD series
Heavy-duty vacuum gripper (non-standard custom)
◇ Vacuum type: External vacuum generator
◇ Suction surface type: Foam/rubber cup

General -purpose

ATC foam vacuum gripping system

ATC foam gripper

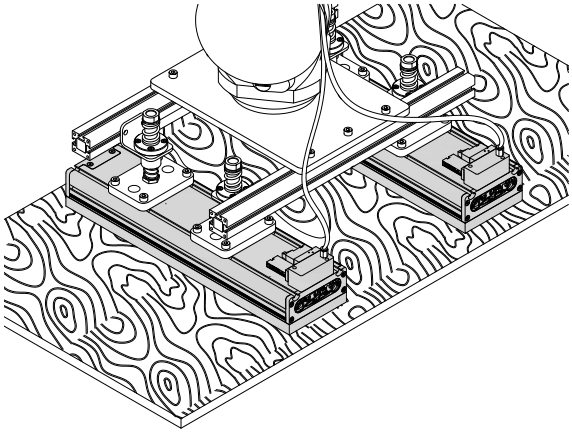
General-purpose



Introduction

- ◆Suitable for applications with compressed air supplied on-site
- ◆Light, high-strength casing made of quality aluminum alloy
- ◆Options offered for internal check valve and throttle valve structure
- ◆T-slot installation (with M8×1.25 sliders)
- ◆130 mm wide, foam suction surface

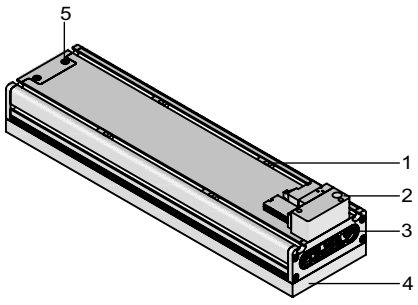
Application of ATC...3R18/5R18 foam gripper



Application

- ◆ Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- ◆ The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

System design of ATC...3R18/5R18 foam gripper



Structure

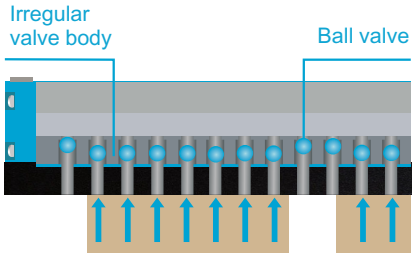
- ◆(1) M8 slider in the T-slot
- ◆(2) Compressed air inlet
- ◆(3) Exhaust port
- ◆(4) Foam suction surface
- ◆(5) Vacuum detection port

ATC foam vacuum gripping system

ATC foam gripper

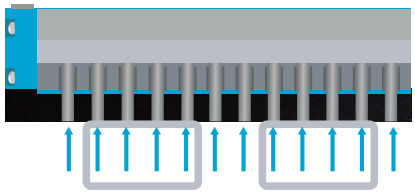
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SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATC foam vacuum gripping system

ATC foam gripper

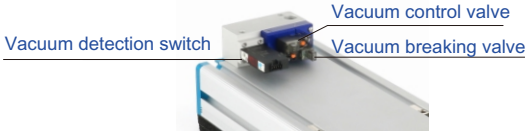
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ATC...3R18/5R18 foam gripper purchase guide

ATC - FN - SVK 258 3R18 20 F

① ② ③ ④ ⑤ ⑥ ⑦

① Product series	② Controller	③Valve technology	④ Length
ATC	Null - No control valve FN - With control valve, NPN switch FP - With control valve, PNP switch	SVK - Check valve SW - Throttle valve	258mm 618mm 278mm 816mm 294mm 978mm 420mm 1212mm 508mm 1410mm



⑤ Number of suction hole rows	⑥ Foam thickness	⑦ Foam type
3R18 -3 rows of holes (suction hole interval: 18mm) **5R18** -5 rows of holes (suction hole interval: 18mm)	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam


3R18


5R18

ATC...3R18/5R18 foam sealing part purchase guide

M-PL 258 3R18 20 F

① ② ③ ④ ⑤

① Product series	② Foam size	③Number of suction hole rows	④ Foam thickness	⑤ Foam type
M-PL	258mm 618mm 278mm 816mm 294mm 978mm 420mm 1212mm 508mm 1410mm	**3R18** -3 rows of holes (suction hole interval: 18mm) **5R18** -5 rows of holes (suction hole interval: 18mm)	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

Technical parameters of ATC...3R18 foam gripper

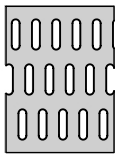
Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATC-□-SVK 258 3R18	39	180	70	410	2.2
ATC-□-SVK 278 3R18	42	180	70	440	2.4
ATC-□-SVK 294 3R18	45	180	70	470	2.6
ATC-□-SVK 420 3R18	66	180	70	700	3.1
ATC-□-SVK 508 3R18	81	180	70	860	3.5
ATC-□-SVK 618 3R18	99	270	70	1050	3.9
ATC-□-SVK 816 3R18	132	360	70	1400	5.5
ATC-□-SVK 978 3R18	159	360	70	1680	6.1
ATC-□-SVK 1212 3R18	198	540	70	2100	7.1
ATC-□-SVK 1410 3R18	231	630	70	2450	7.9
ATC-□-SW 258 3R18	39	180	70	330	2.1
ATC-□-SW 278 3R18	42	180	70	350	2.3
ATC-□-SW 294 3R18	45	180	70	380	2.5
ATC-□-SW 420 3R18	66	180	70	560	3.0
ATC-□-SW 508 3R18	81	180	70	680	3.4
ATC-□-SW 618 3R18	99	270	70	840	3.8
ATC-□-SW 816 3R18	132	360	70	1120	5.4
ATC-□-SW 978 3R18	159	360	70	1350	6.0
ATC-□-SW 1212 3R18	198	540	70	1680	7.0
ATC-□-SW 1410 3R18	231	630	70	1960	7.8

Technical parameters of ATC...5R18 foam gripper

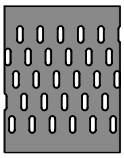
Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATC-□-SVK 258 5R18	65	180	70	310	2.2
ATC-□-SVK 278 5R18	70	180	70	340	2.4
ATC-□-SVK 294 5R18	75	180	70	360	2.6
ATC-□-SVK 420 5R18	110	180	70	530	3.1
ATC-□-SVK 508 5R18	135	270	70	650	3.5
ATC-□-SVK 618 5R18	165	360	70	800	3.9
ATC-□-SVK 816 5R18	220	450	70	1070	5.5
ATC-□-SVK 978 5R18	265	540	70	1290	6.0
ATC-□-SVK 1212 5R18	330	720	70	1600	7.1
ATC-□-SVK 1410 5R18	385	720	70	1870	7.9
ATC-□-SW 258 5R18	65	180	70	250	2.1
ATC-□-SW 278 5R18	70	180	70	270	2.3
ATC-□-SW 294 5R18	75	180	70	290	2.5
ATC-□-SW 420 5R18	110	180	70	420	3.0
ATC-□-SW 508 5R18	135	270	70	520	3.4
ATC-□-SW 618 5R18	165	360	70	640	3.8
ATC-□-SW 816 5R18	220	450	70	850	5.4
ATC-□-SW 978 5R18	265	540	70	1030	5.9
ATC-□-SW 1212 5R18	330	720	70	1280	7.0
ATC-□-SW 1410 5R18	385	720	70	1500	7.8

Design parameters of ATC...3R18/5R18 foam gripper

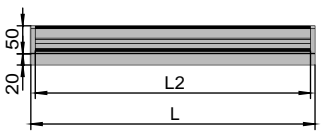
3R18

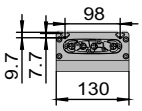


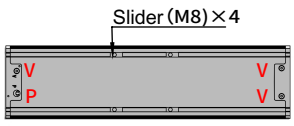
5R18



ATC... 3R18/5R18 (258 to 978)



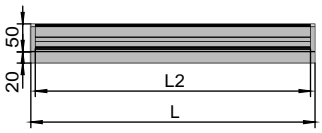


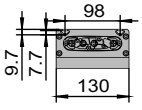


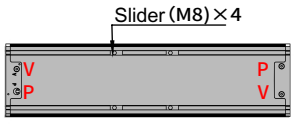
P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L2
ATC-SVK/SW 258 3R18/5R18	258	242
ATC-SVK/SW 278 3R18/5R18	278	262
ATC-SVK/SW 294 3R18/5R18	294	278
ATC-SVK/SW 420 3R18/5R18	420	404
ATC-SVK/SW 508 3R18/5R18	508	492
ATC-SVK/SW 618 3R18/5R18	618	602
ATC-SVK/SW 816 3R18	816	800
ATC-SVK/SW 978 3R18	978	962

ATC...3R18/5R18 (816 to 1410)





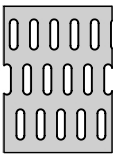


P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

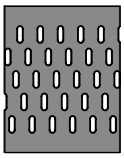
Model	Size (mm)	
	L	L2
ATC-SVK/SW 816 5R18	816	800
ATC-SVK/SW 978 5R18	978	962
ATC-SVK/SW 1212 3R18/5R18	1212	1196
ATC-SVK/SW 1410 3R18/5R18	1410	1394

Design parameters of ATC-FN/FP...3R18/5R18 foam gripper

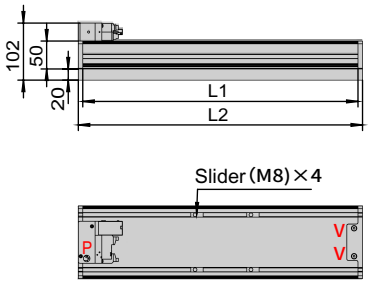
3R18

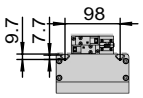


5R18



ATC-FN/FP ...3R18/5R18 (258 to 978)

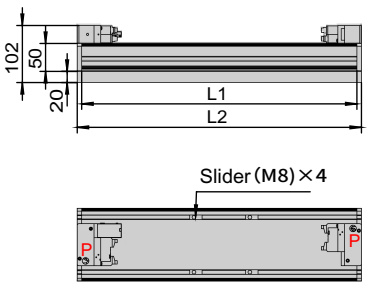


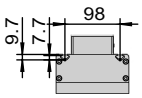


P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	**L2**
ATC-□-SVK/SW 258 3R18/5R18	258	242
ATC-□-SVK/SW 278 3R18/5R18	278	262
ATC-□-SVK/SW 294 3R18/5R18	294	278
ATC-□-SVK/SW 420 3R18/5R18	420	404
ATC-□-SVK/SW 508 3R18/5R18	508	492
ATC-□-SVK/SW 618 3R18/5R18	618	602
ATC-□-SVK/SW 816 3R18	816	800
ATC-□-SVK/SW 978 3R18	978	962

ATC-FN/FP ...3R18/5R18 (816 to 1410)





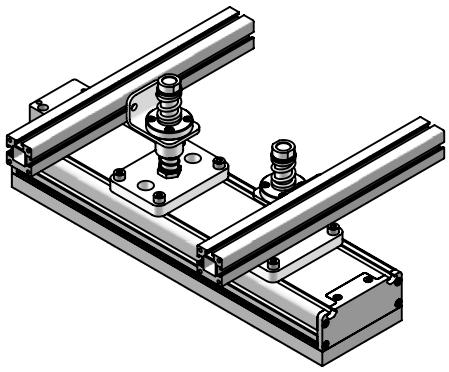
P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	**L2**
ATC-□-SVK/SW 816 5R18	816	800
ATC-□-SVK/SW 978 5R18	978	962
ATC-□-SVK/SW 1212 3R18/5R18	1212	1196
ATC-□-SVK/SW 1410 3R18/5R18	1410	1394

ATC foam vacuum gripping system

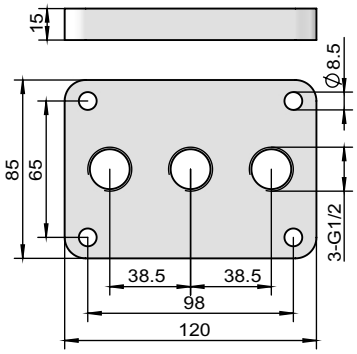
ATC foam gripper

ATC...3R18/5R18 foam gripper installation illustration



Design parameters of FLAN-PL 120X85X15-C mounting plate

FLAN-PL 120X85X15-C

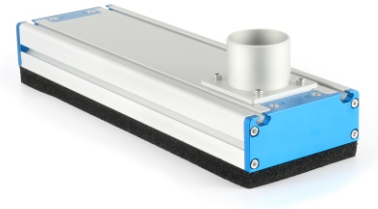


Models of ATC...3R18/5R18 foam gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 120X85X15-C

ATD foam vacuum gripping system
ATD foam gripper

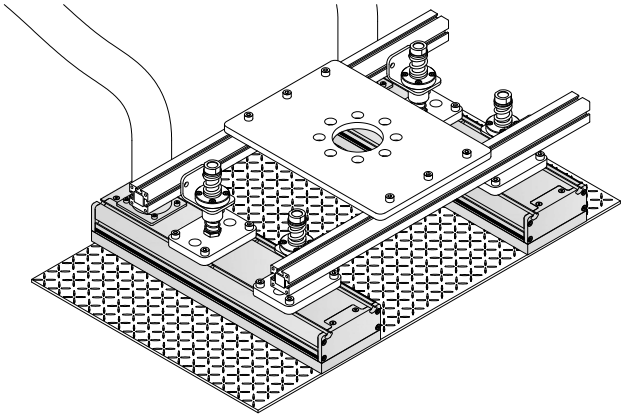
General-purpose



Introduction

- Appropriate to being used in conjunction with a large-flow vacuum pump or vacuum blower
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 130 mm wide, foam suction surface

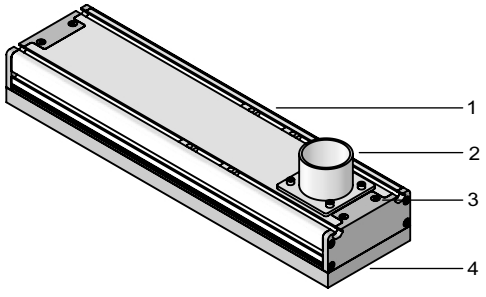
Application of ATD...3R18/5R18 foam gripper



Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

System design of ATD...3R18/5R18 foam gripper



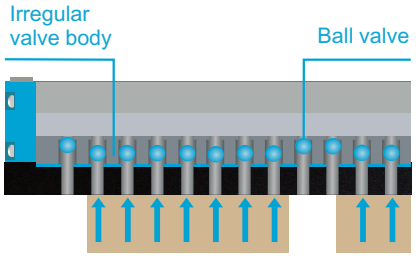
Structure

- (1) M8 slider in the T-slot
- (2) Vacuum blower port
- (3) Vacuum detection port
- (4) Foam suction surface

ATD foam vacuum gripping system
ATD foam gripper

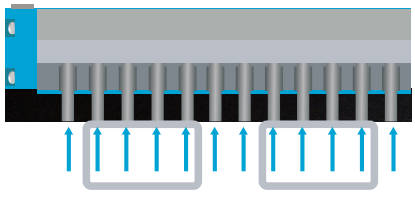
AMILA

SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATD...3R18/5R18 foam gripper purchase guide

ATD - SVK 258 3R18 20 F
① ② ③ ④ ⑤ ⑥

① Product series	② Valve technology	③ Length	④ Number of suction hole rows
ATD	SVK - Check valve SW - Throttle valve	258mm 618mm 278mm 816mm 294mm 978mm 420mm 1212mm 508mm 1410mm	**3R18** - 3 rows of holes (suction hole interval: 18mm) **5R18** - 5 rows of holes (suction hole interval: 18mm)  3R18  5R18

⑤ Foam thickness	⑥ Foam type
10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

ATD...3R18/5R18 foam sealing part purchase guide

M-PL 258 3R18 20 F
① ② ③ ④ ⑤

① Product series	② Foam size	③ Number of suction hole rows	④ Foam thickness	⑤ Foam type
M-PL	258mm 618mm 278mm 816mm 294mm 978mm 420mm 1212mm 508mm 1410mm	**3R18** -3 rows of holes (suction hole interval: 18mm) **5R18** -5 rows of holes (suction hole interval: 18mm)	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

Technical parameters of ATD...3R18 foam gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATD-SVK 258 3R18	39	120	325	1.6
ATD-SVK 278 3R18	42	135	350	1.8
ATD-SVK 294 3R18	45	150	375	2.0
ATD-SVK 420 3R18	66	300	550	2.5
ATD-SVK 508 3R18	81	370	680	3.0
ATD-SVK 618 3R18	99	450	820	3.4
ATD-SVK 816 3R18	132	600	1090	4.6
ATD-SVK 978 3R18	159	750	1350	5.1
ATD-SVK 1212 3R18	198	900	1650	6.2
ATD-SVK 1410 3R18	231	1050	1910	7.0
ATD-SW 258 3R18	39	120	260	1.5
ATD-SW 278 3R18	42	135	280	1.7
ATD-SW 294 3R18	45	150	300	1.9
ATD-SW 420 3R18	66	300	440	2.4
ATD-SW 508 3R18	81	370	540	2.9
ATD-SW 618 3R18	99	450	660	3.3
ATD-SW 816 3R18	132	600	870	4.5
ATD-SW 978 3R18	159	750	1020	5.0
ATD-SW 1212 3R18	198	900	1310	6.1
ATD-SW 1410 3R18	231	1050	1530	6.9

Note: The required suction capacity should ensure that when the connecting end pressure is -0.25 bar, the maximum flow cannot exceed 135% of the rated value.

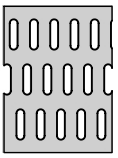
Technical parameters of ATD...5R18 foam gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATD-SVK 258 5R18	65	120	250	1.6
ATD-SVK 278 5R18	70	135	270	1.8
ATD-SVK 294 5R18	75	150	290	2.0
ATD-SVK 420 5R18	110	300	430	2.5
ATD-SVK 508 5R18	135	370	515	3.0
ATD-SVK 618 5R18	165	450	630	3.4
ATD-SVK 816 5R18	220	600	840	4.6
ATD-SVK 978 5R18	265	750	1020	5.1
ATD-SVK 1212 5R18	300	900	1270	6.2
ATD-SVK 1410 5R18	385	1050	1470	7.0
ATD-SW 258 5R18	65	120	190	1.5
ATD-SW 278 5R18	70	135	210	1.7
ATD-SW 294 5R18	75	150	230	1.9
ATD-SW 420 5R18	110	300	340	2.4
ATD-SW 508 5R18	135	370	415	2.9
ATD-SW 618 5R18	165	450	510	3.3
ATD-SW 816 5R18	220	600	670	4.5
ATD-SW 978 5R18	265	750	810	5.0
ATD-SW 1212 5R18	300	900	1010	6.1
ATD-SW 1410 5R18	385	1050	1180	6.9

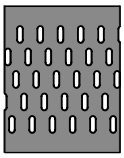
Note: The required suction capacity should ensure that when the connecting end pressure is -0.25 bar, the maximum flow cannot exceed 135% of the rated value.

Design parameters of ATD...3R18/5R18 foam gripper

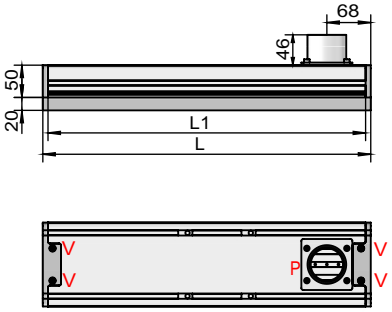
3R18

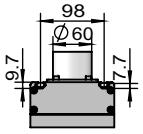


5R18



ATD...3R18 (258 to 1410)

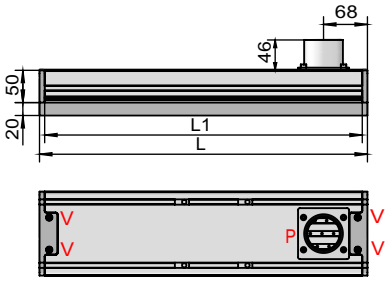


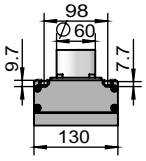


P: Vacuum blower port
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L1
ATD-SVK(SW)258 3R18	258	242
ATD-SVK(SW)278 3R18	278	262
ATD-SVK(SW)294 3R18	294	278
ATD-SVK(SW)420 3R18	420	404
ATD-SVK(SW)508 3R18	508	492
ATD-SVK(SW)618 3R18	618	602
ATD-SVK(SW)816 3R18	816	800
ATD-SVK(SW)978 3R18	978	962
ATD-SVK(SW)1212 3R18	1221	1196
ATD-SVK(SW)1410 3R18	1410	1394

ATD...5R18 (258 to 1410)

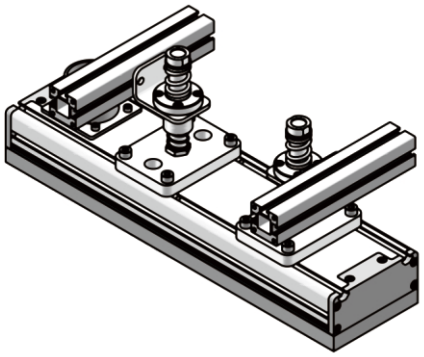




P: Vacuum blower port
V: Vacuum port (G1/8)

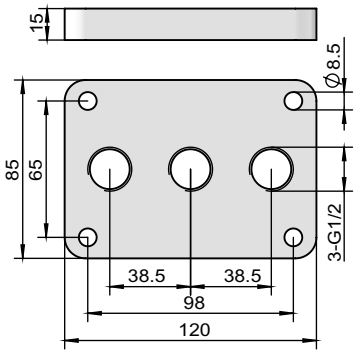
Model	Size (mm)	
	L	L1
ATD-SVK(SW)258 5R18	258	242
ATD-SVK(SW)278 5R18	278	262
ATD-SVK(SW)294 5R18	294	278
ATD-SVK(SW)420 5R18	420	404
ATD-SVK(SW)508 5R18	508	492
ATD-SVK(SW)618 5R18	618	602
ATD-SVK(SW)816 5R18	816	800
ATD-SVK(SW)978 5R18	978	962
ATD-SVK(SW)1212 5R18	1221	1196
ATD-SVK(SW)1410 5R18	1410	1394

ATD...3R18/5R18 foam gripper installation illustration



Design parameters of FLAN-PL120X85X15-C mounting plate

FLAN-PL 120X85X15-C



Models of ATD...3R18/5R18 foam gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 120X85X15-C

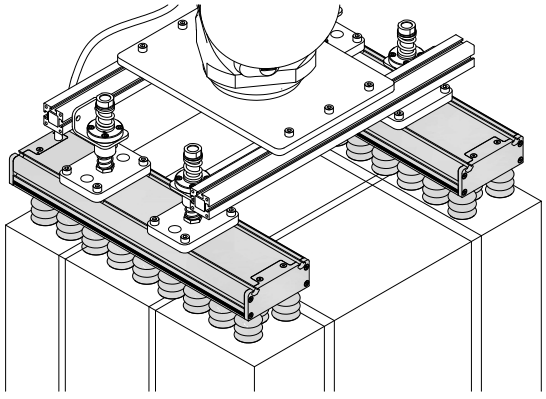
ATC-B20/B40 vacuum gripping system

ATC-B20/B40 vacuum gripper

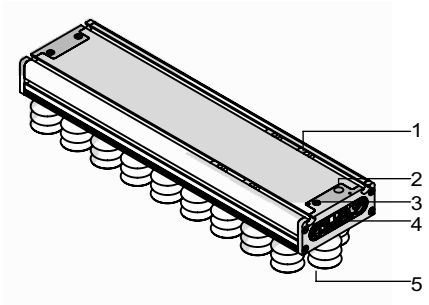
General-purpose



Application of ATC...B40/B20 vacuum gripper



System design of ATC...B40/B20 vacuum gripper



Introduction

- Suitable for applications with compressed air supplied on-site
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 130 mm wide; suction surface: B20/B40 rubber cup

Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

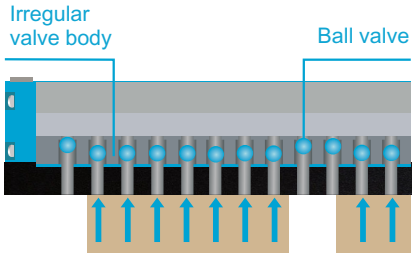
Structure

- (1) M8 slider in the T-slot
- (2) Compressed air inlet
- (3) Vacuum detection port
- (4) Exhaust port
- (5) Suction surface of cup parts

ATC-B20/B40 vacuum gripping system

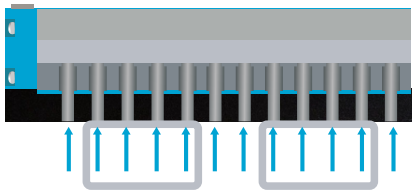
ATC-B20/B40 vacuum gripper

SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATC-B20/B40 vacuum gripping system

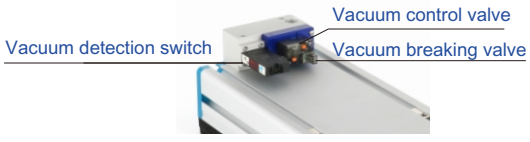
ATC-B20/B40 vacuum gripper

ATC...3R18/5R18 foam gripper purchase guide

ATC - FN - SVK 258 3R54 B40

① ② ③ ④ ⑤ ⑥

① Product series	② Controller	③Valve technology	④ Length
ATC	Null - No control valve FN - With control valve, NPN switch FP - With control valve, PNP switch	SVK - Check valve SW - Throttle valve	258mm 618mm 278mm 816mm 294mm 978mm 420mm 1212mm 508mm 1410mm



⑤ Number of suction hole rows	⑥ Cup diameter
3R54 - 3 rows of holes (suction hole interval: 54mm) 5R36 - 5 rows of holes (suction hole interval: 36mm)	B40 - Diameter: 40mm B20 - Diameter: 20mm

Note: When item 5 is 3R54, it can only correspond to B40.
When item 5 is 5R36, it can only correspond to B20.

ATC...B40/B20 vacuum gripper fittings

Name	Model
Rubber cup	B40
	B20

ATC-B20/B40 vacuum gripping system

ATC-B20/B40 vacuum gripper

Technical parameters of ATC...B40 vacuum gripper

Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATC-□-SVK 258 3R54 B40	12	180	70	160	2.8
ATC-□-SVK 278 3R54 B40	15	180	70	210	3.1
ATC-□-SVK 294 3R54 B40	15	180	70	210	3.4
ATC-□-SVK 420 3R54 B40	23	180	70	320	4.2
ATC-□-SVK 508 3R54 B40	27	180	70	380	4.6
ATC-□-SVK 618 3R54 B40	33	270	70	460	5.1
ATC-□-SVK 816 3R54 B40	44	180	70	610	7.7
ATC-□-SVK 978 3R54 B40	53	270	70	740	8.9
ATC-□-SVK 1212 3R54 B40	66	270	70	920	10.3
ATC-□-SVK 1410 3R54 B40	77	270	70	1080	11.7
ATC-□-SW 258 3R54 B40	12	180	70	128	2.7
ATC-□-SW 278 3R54 B40	15	180	70	168	3.0
ATC-□-SW 294 3R54 B40	15	180	70	168	3.4
ATC-□-SW 420 3R54 B40	23	180	70	256	4.1
ATC-□-SW 508 3R54 B40	27	180	70	300	4.5
ATC-□-SW 618 3R54 B40	33	270	70	360	5.0
ATC-□-SW 816 3R54 B40	44	180	70	480	7.6
ATC-□-SW 978 3R54 B40	53	270	70	590	8.8
ATC-□-SW 1212 3R54 B40	66	270	70	730	10.2
ATC-□-SW 1410 3R54 B40	77	270	70	860	11.6

Technical parameters of ATC...B20 vacuum gripper

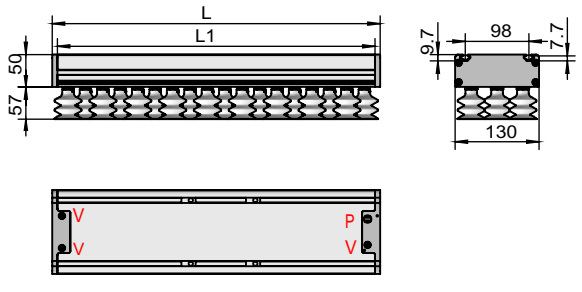
Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATC-□-SVK 258 5R36 B20	34	180	70	140	3.0
ATC-□-SVK 278 5R36 B20	35	180	70	145	3.3
ATC-□-SVK 294 5R36 B20	39	180	70	160	3.6
ATC-□-SVK 420 5R36 B20	55	180	70	230	4.5
ATC-□-SVK 508 5R36 B20	69	270	70	290	4.9
ATC-□-SVK 618 5R36 B20	84	360	70	350	5.4
ATC-□-SVK 816 5R36 B20	110	360	70	460	8.0
ATC-□-SVK 978 5R36 B20	130	450	70	550	9.1
ATC-□-SVK 1212 5R36 B20	165	540	70	700	10.6
ATC-□-SVK 1410 5R36 B20	194	630	70	820	12.0
ATC-□-SW 258 5R36 B20	34	180	70	112	2.9
ATC-□-SW 278 5R36 B20	35	180	70	116	3.2
ATC-□-SW 294 5R36 B20	39	180	70	128	3.5
ATC-□-SW 420 5R36 B20	55	180	70	180	4.4
ATC-□-SW 508 5R36 B20	69	270	70	230	4.8
ATC-□-SW 618 5R36 B20	84	360	70	280	5.3
ATC-□-SW 816 5R36 B20	110	360	70	360	7.9
ATC-□-SW 978 5R36 B20	130	450	70	440	9.0
ATC-□-SW 1212 5R36 B20	165	540	70	560	10.5
ATC-□-SW 1410 5R36 B20	193	630	70	650	11.9

ATC-B20/B40 vacuum gripping system

ATC-B20/B40 vacuum gripper

Design parameters of ATC...B40/B20 vacuum gripper

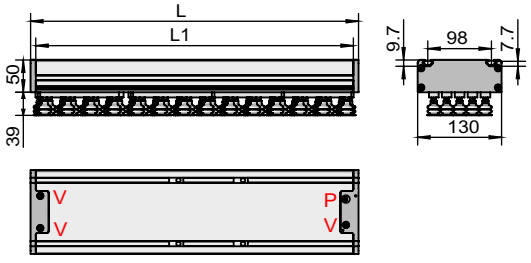
ATC...3R54 B40 (258 to 1410)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L1
ATC-SVK(SW)258 3R54 B40	258	242
ATC-SVK(SW)278 3R54 B40	278	262
ATC-SVK(SW)294 3R54 B40	294	278
ATC-SVK(SW)420 3R54 B40	420	404
ATC-SVK(SW)508 3R54 B40	508	492
ATC-SVK(SW)618 3R54 B40	618	602
ATC-SVK(SW)816 3R54 B40	816	800
ATC-SVK(SW)978 3R54 B40	978	962
ATC-SVK(SW)1212 3R54 B40	1212	1196
ATC-SVK(SW)1410 3R54 B40	1410	1394

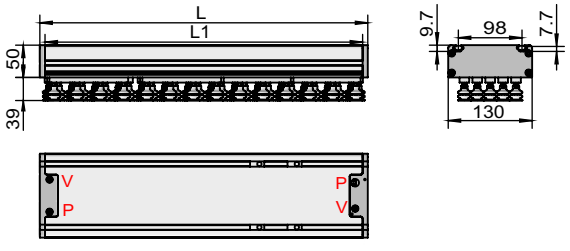
ATC...5R36 B20 (258 to 816)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L1
ATC-SVK(SW)258 5R36 B20	258	242
ATC-SVK(SW)278 5R36 B20	278	262
ATC-SVK(SW)294 5R36 B20	294	278
ATC-SVK(SW)420 5R36 B20	420	404
ATC-SVK(SW)508 5R36 B20	508	492
ATC-SVK(SW)618 5R36 B20	618	602
ATC-SVK(SW)816 5R36 B20	816	800

ATC...5R36 B20 (978 to 1410)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

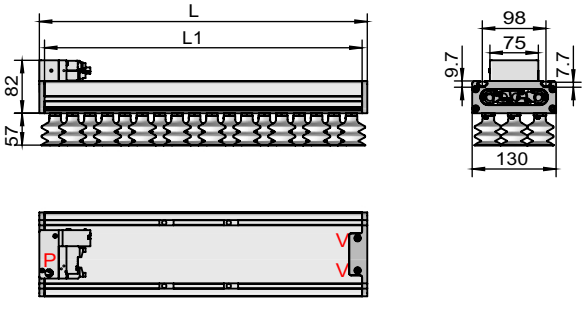
Model	Size (mm)	
	L	L1
ATC-SVK(SW)978 5R36 B20	978	962
ATC-SVK(SW)1212 5R36 B20	1212	1196
ATC-SVK(SW)1410 5R36 B20	1410	1394

ATC-B20/B40 vacuum gripping system

ATC-B20/B40 vacuum gripper

Design parameters of ATC-FN/FP...B40/B20 vacuum gripper with control valve

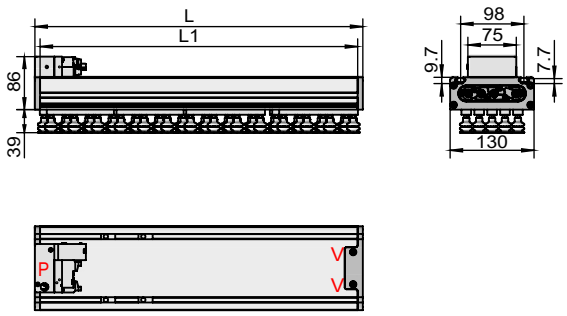
ATC-FN/FP... 3R54 B40 (258 to 1410)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L1
ATC-□-SVK(SW)258 3R54 B40	258	242
ATC-□-SVK(SW)278 3R54 B40	278	262
ATC-□-SVK(SW)294 3R54 B40	294	278
ATC-□-SVK(SW)420 3R54 B40	420	404
ATC-□-SVK(SW)508 3R54 B40	508	492
ATC-□-SVK(SW)618 3R54 B40	618	602
ATC-□-SVK(SW)816 3R54 B40	816	800
ATC-□-SVK(SW)978 3R54 B40	978	962
ATC-□-SVK(SW)1212 3R54 B40	1212	1196
ATC-□-SVK(SW)1410 3R54 B40	1410	1394

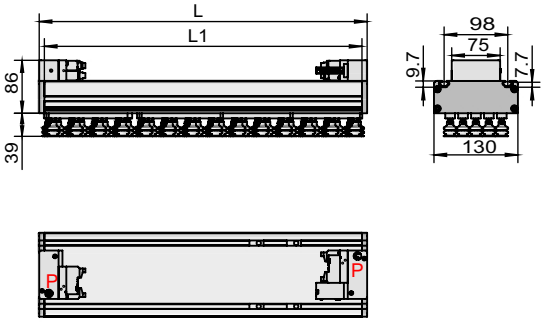
ATC-FN/FP... 5R36 B20 (258 to 816)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L1
ATC-□-SVK(SW)258 5R36 B20	258	242
ATC-□-SVK(SW)278 5R36 B20	278	262
ATC-□-SVK(SW)294 5R36 B20	294	278
ATC-□-SVK(SW)420 5R36 B20	420	404
ATC-□-SVK(SW)508 5R36 B20	508	492
ATC-□-SVK(SW)618 5R36 B20	618	602
ATC-□-SVK(SW)816 5R36 B20	816	800

ATC-FN/FP...5R36 B20 (978to 1410)



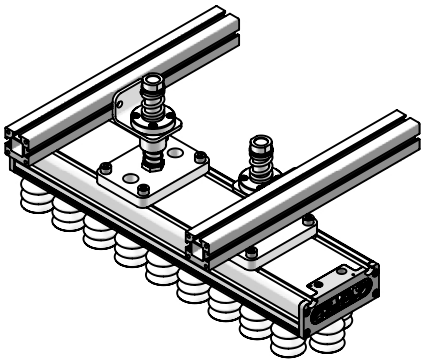
P: Compressed air inlet (G1/4)

Model	Size (mm)	
	L	L1
ATC-□-SVK(SW)978 5R36 B20	978	962
ATC-□-SVK(SW)1212 5R36 B20	1212	1196
ATC-□-SVK(SW)1410 5R36 B20	1410	1394

ATC-B20/B40 vacuum gripping system

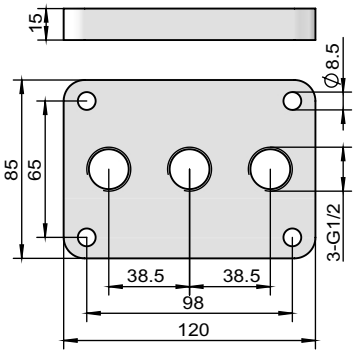
ATC-B20/B40 vacuum gripper

ATC...B40/B20 vacuum gripper installation illustration



Design parameters of FLAN-PL 120X85X15-C mounting plate

FLAN-PL 120X85X15-C



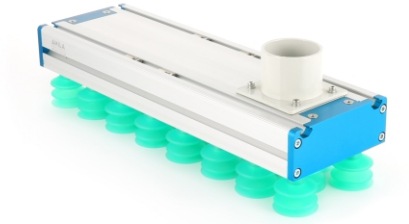
Models of ATC...B40/B20 vacuum gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 120X85X15-C

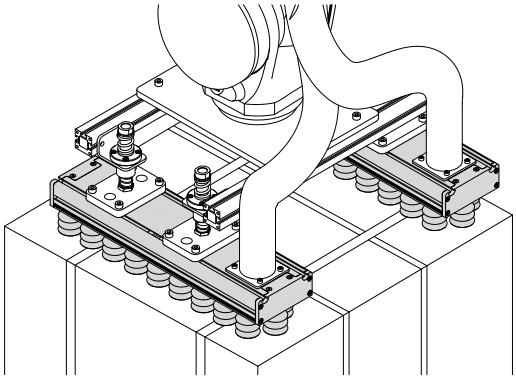
ATD-B20/B40 vacuum gripping system

ATD-B20/B40 vacuum gripper

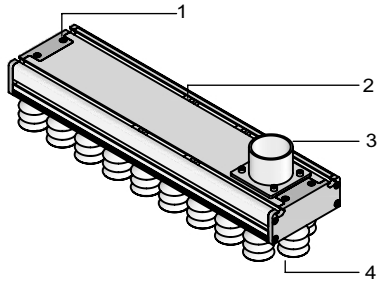
General-purpose



Application of ATD...B40/B20 vacuum gripper



System design of ATD...B40/B20 vacuum gripper



Introduction

- Appropriate to being used in conjunction with a large-flow vacuum pump or a vacuum blower
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 130 mm wide; suction surface: B20/B40 rubber cup

Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

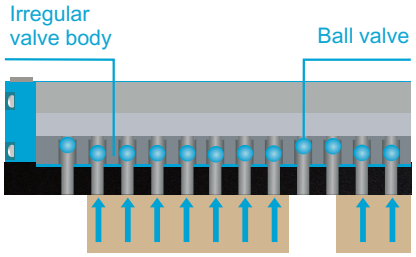
Structure

- (1) Vacuum detection port
- (2) M8 slider in the T-slot
- (3) Vacuum blower port
- (4) Suction surface of cup parts

ATD-B20/B40 vacuum gripping system

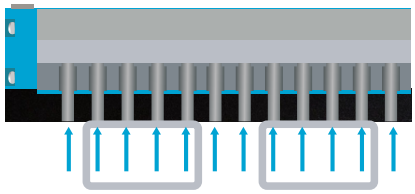
ATD-B20/B40 vacuum gripper

SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATD-B20/B40 vacuum gripping system

ATD-B20/B40 vacuum gripper

AMILA

ATD...B40/B20 vacuum gripper purchase guide

ATD - SVK 258 3R54 B40

① ② ③ ④ ⑤

① Product series	② Valve technology	③ Length	④ Number of suction hole rows	⑤ Cup diameter
ATD	SVK - Check valve SW - Throttle valve	258mm 618mm 278mm 816mm 294mm 978mm 420mm 1212mm 508mm 1410mm	3R54 - 3 rows of holes (suction hole interval: 54mm) 5R36 - 5 rows of holes (suction hole interval: 36mm)	B40 - Diameter: 40mm B20 - Diameter: 20mm

ATD...B40/B20 vacuum gripper fittings

Name	Model
Rubber cup	B40
	B20

Technical parameters of ATD...B40 vacuum gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATD-SVK 258 3R54 B40	12	120	130	2.4
ATD-SVK 278 3R54 B40	15	135	160	2.6
ATD-SVK 294 3R54 B40	15	150	160	2.8
ATD-SVK 420 3R54 B40	23	300	250	3.6
ATD-SVK 508 3R54 B40	27	370	295	4.0
ATD-SVK 618 3R54 B40	33	450	360	4.5
ATD-SVK 816 3R54 B40	44	600	480	6.8
ATD-SVK 978 3R54 B40	53	750	580	8.0
ATD-SVK 1212 3R54 B40	66	900	720	9.4
ATD-SVK 1410 3R54 B40	77	1050	840	10.9
ATD-SW 258 3R54 B40	12	120	104	2.3
ATD-SW 278 3R54 B40	15	135	130	2.5
ATD-SW 294 3R54 B40	15	150	130	2.7
ATD-SW 420 3R54 B40	23	300	200	3.5
ATD-SW 508 3R54 B40	27	370	225	4.0
ATD-SW 618 3R54 B40	33	450	290	4.4
ATD-SW 816 3R54 B40	44	600	390	6.7
ATD-SW 978 3R54 B40	53	750	480	7.9
ATD-SW 1212 3R54 B40	66	900	580	9.3
ATD-SW 1410 3R54 B40	77	1050	680	10.8

Note: The required suction capacity should ensure that when the connecting end pressure is -0.25 bar, the maximum flow cannot exceed 135% of the rated value.

ATD-B20/B40 vacuum gripping system

ATD-B20/B40 vacuum gripper

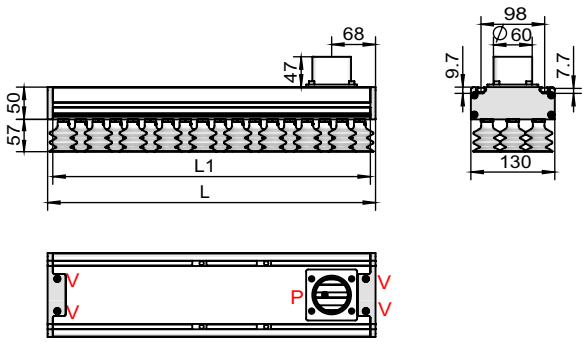
Technical parameters of ATD...B40 vacuum gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATD-SVK 258 5R36 B20	34	120	110	2.6
ATD-SVK 278 5R36 B20	35	135	115	2.9
ATD-SVK 294 5R36 B20	39	150	120	3.2
ATD-SVK 420 5R36 B20	55	300	180	4.1
ATD-SVK 508 5R36 B20	69	370	225	4.5
ATD-SVK 618 5R36 B20	82	450	265	5.0
ATD-SVK 816 5R36 B20	110	600	360	7.6
ATD-SVK 978 5R36 B20	130	750	425	8.7
ATD-SVK 1212 5R36 B20	165	900	540	10.2
ATD-SVK 1410 5R36 B20	193	1050	630	11.6
ATD-SW 258 5R36 B20	34	120	87	2.5
ATD-SW 278 5R36 B20	35	135	89	2.8
ATD-SW 294 5R36 B20	39	150	100	3.1
ATD-SW 420 5R36 B20	55	300	140	4.0
ATD-SW 508 5R36 B20	69	370	175	4.4
ATD-SW 618 5R36 B20	82	450	210	4.9
ATD-SW 816 5R36 B20	110	600	280	7.5
ATD-SW 978 5R36 B20	130	750	330	8.6
ATD-SW 1212 5R36 B20	165	900	420	10.1
ATD-SW 1410 5R36 B20	193	1050	490	11.5

Note: The required suction capacity should ensure that when the connecting end pressure is -0.25 bar, the maximum flow cannot exceed 135% of the rated value.

Design parameters of ATD...B40/B20 vacuum gripper

ATD...3R54 B40 (258 to 1410)



P: Vacuum blower port
V: Vacuum port (G1/8)

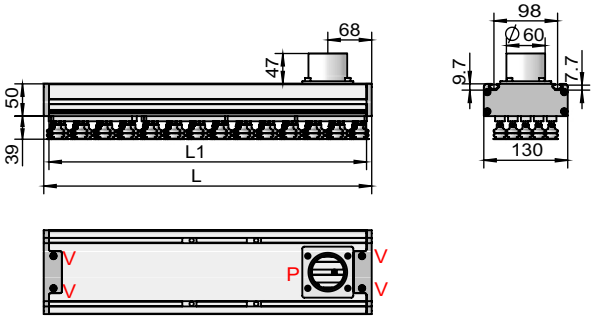
Model	Size (mm)	
	L	**L1**
ATD-SVK(SW)258 3R54 B40	258	242
ATD-SVK(SW)278 3R54 B40	278	262
ATD-SVK(SW)294 3R54 B40	294	278
ATD-SVK(SW)420 3R54 B40	420	404
ATD-SVK(SW)508 3R54 B40	508	492
ATD-SVK(SW)618 3R54 B40	618	602
ATD-SVK(SW)816 3R54 B40	816	800
ATD-SVK(SW)978 3R54 B40	978	962
ATD-SVK(SW)1212 3R54 B40	1212	1196
ATD-SVK(SW)1410 3R54 B40	1410	1394

ATD-B20/B40 vacuum gripping system

ATD-B20/B40 vacuum gripper

Design parameters of ATD...B40/B20 vacuum gripper

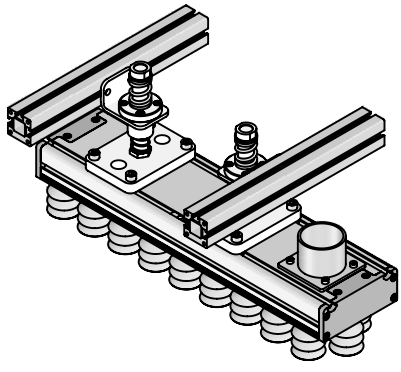
ATD...3R54 B20 (258 to 1410)



Model	Size (mm)	
	L	L1
ATD-SVK(SW)258 5R36 B20	258	242
ATD-SVK(SW)278 5R36 B20	278	262
ATD-SVK(SW)194 5R36 B20	294	278
ATD-SVK(SW)420 5R36 B20	420	404
ATD-SVK(SW)508 5R36 B20	508	492
ATD-SVK(SW)618 5R36 B20	618	602
ATD-SVK(SW)816 5R36 B20	816	800
ATD-SVK(SW)978 5R36 B20	978	962
ATD-SVK(SW)1212 5R36 B20	1212	1196
ATD-SVK(SW)1410 5R36 B20	1410	1394

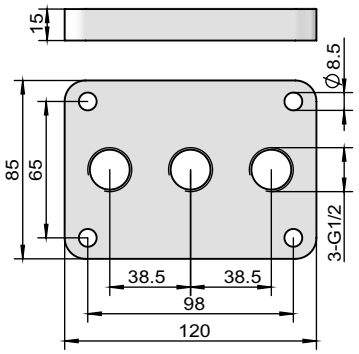
P: Vacuum blower port
V: Vacuum port (G1/8)

ATD...B40/B20 vacuum gripper installation illustration



Design parameters of FLAN-PL 120X85X15-C mounting plate

FLAN-PL 120X85X15-C



Models of ATD...B40/B20 vacuum gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 120X85X15-C

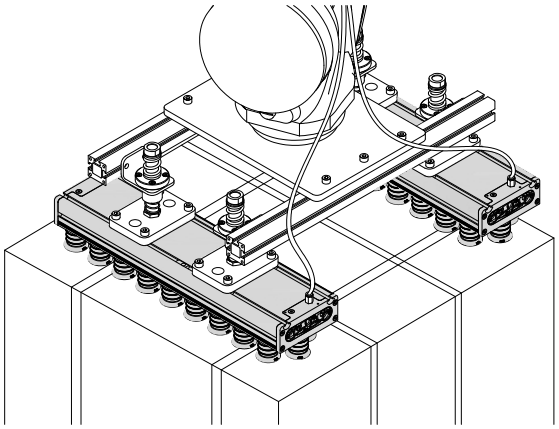
ATC-MX39/MX55 vacuum gripping system

ATC-MX39/MX55 vacuum gripper

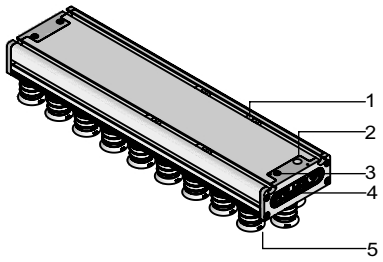
General-purpose



Application of ATC combined gripper



Structure of ATC combined gripper



Introduction

- Suitable for applications with compressed air supplied on-site
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 130 mm wide; suction surface: MX39/MX55 combined cup

Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

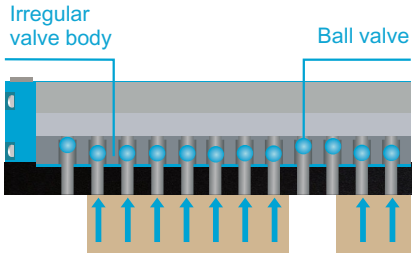
Structure

- (1) M8 slider in the T-slot
- (2) Compressed air inlet
- (3) Vacuum detection port
- (4) Exhaust port
- (5) Suction surface of combined cup

ATC-MX39/MX55 vacuum gripping system

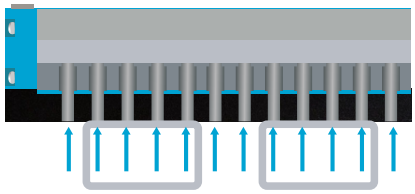
ATC-MX39/MX55 vacuum gripper

SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATC-MX39/MX55 vacuum gripping system

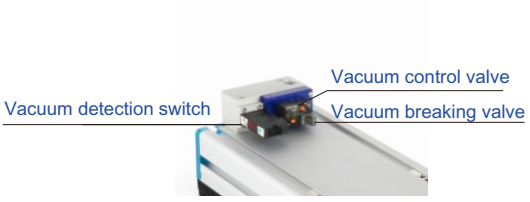
ATC-MX39/MX55 vacuum gripper

ATC...MX39/MX55 vacuum gripper purchase guide

ATC - FN SVK 294 MX39

① ② ③ ④ ⑤

① Product series	② Controller	③ Valve technology	④Length		⑤ Cup type
ATC	Null - No control valve FN - With control valve, NPN switch FP - With control valve, PNP switch	SVK - Check valve SW - Throttle valve	294mm 420mm 508mm 618mm	816mm 978mm 1212mm 1410mm	MX39 MX55



ATC...MX39/MX55 combined gripper fittings

Name	Model
Combined cup	MG.MX39T50.SK.A3
	MG.MX55T50.SK.A3

Technical parameters of ATC...MX39 combined gripper

Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATC-□-SVK(SW) 294 MX39	15	180	70	160	3.4
ATC-□-SVK(SW) 420 MX39	23	180	70	230	4.2
ATC-□-SVK(SW) 508 MX39	27	180	70	290	4.6
ATC-□-SVK(SW) 618 MX39	33	270	70	350	5.1
ATC-□-SVK(SW) 816 MX39	44	180	70	460	7.7
ATC-□-SVK(SW) 978 MX39	53	270	70	550	8.9
ATC-□-SVK(SW) 1212 MX39	66	270	70	700	10.3
ATC-□-SVK(SW) 1410 MX39	77	270	70	820	11.7

Technical parameters of ATC...MX55 combined gripper

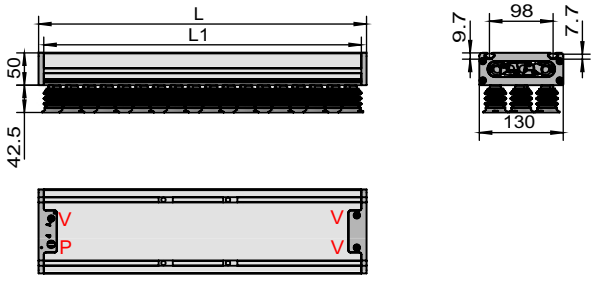
Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATC-□-SVK(SW) 294 MX55	8	180	70	210	2.5
ATC-□-SVK(SW) 420 MX55	12	180	70	320	3.3
ATC-□-SVK(SW) 508 MX55	15	180	70	440	3.8
ATC-□-SVK(SW) 618 MX55	18	180	70	520	4.3
ATC-□-SVK(SW) 816 MX55	24	180	70	610	6.6
ATC-□-SVK(SW) 978 MX55	29	270	70	720	7.8
ATC-□-SVK(SW) 1212 MX55	36	270	70	800	9.1
ATC-□-SVK(SW) 1410 MX55	42	270	70	900	10.6

ATC-MX39/MX55 vacuum gripping system

ATC-MX39/MX55 vacuum gripper

Technical parameters of ATC...MX39/MX55 combined gripper

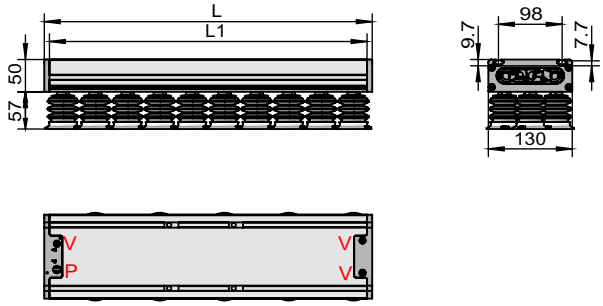
ATC...MX39 (294 to 1410)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	L1
ATC-SVK(SW) 294 MX39	294	278
ATC-SVK(SW) 420 MX39	420	404
ATC-SVK(SW) 508 MX39	508	492
ATC-SVK(SW) 618 MX39	618	602
ATC-SVK(SW) 816 MX39	816	800
ATC-SVK(SW) 978 MX39	978	962
ATC-SVK(SW) 1212 MX39	1212	1196
ATC-SVK(SW) 1410 MX39	1410	1394

ATC...MX55 (294 to 1410)



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

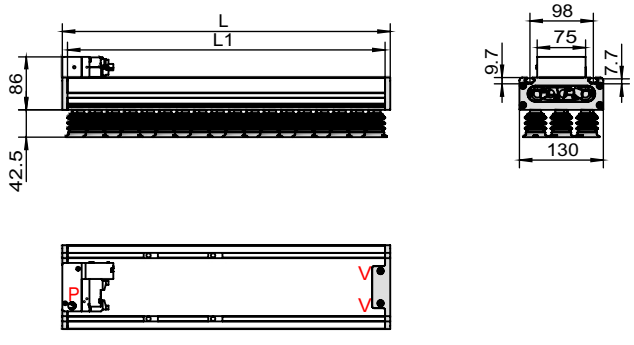
Model	Size (mm)	
	L	L1
ATC-SVK(SW) 294 MX55	294	278
ATC-SVK(SW) 420 MX55	420	404
ATC-SVK(SW) 508 MX55	508	492
ATC-SVK(SW) 618 MX55	618	602
ATC-SVK(SW) 816 MX55	816	800
ATC-SVK(SW) 978 MX55	978	962
ATC-SVK(SW) 1212 MX55	1212	1196
ATC-SVK(SW) 1410 MX55	1410	1394

ATC-MX39/MX55 vacuum gripping system

ATC-MX39/MX55 vacuum gripper

Design parameters of ATC-FN/FP...MX39/MX55 combined gripper with control valve

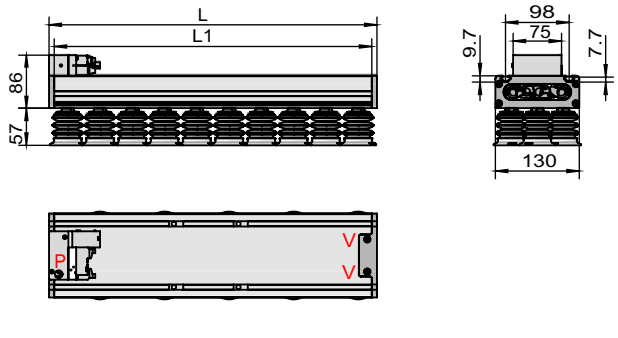
ATC- FN/FP...MX39 (294 to 1410)



Model	Size (mm)	
	L	L1
ATC-□-SVK(SW) 294 MX39	294	278
ATC-□-SVK(SW) 420 MX39	420	404
ATC-□-SVK(SW) 508 MX39	508	492
ATC-□-SVK(SW) 618 MX39	618	602
ATC-□-SVK(SW) 816 MX39	816	800
ATC-□-SVK(SW) 978 MX39	978	962
ATC-□-SVK(SW) 1212 MX39	1212	1196
ATC-□-SVK(SW) 1410 MX39	1410	1394

P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

ATC- FN/FP...MX55 (294 to 1410)



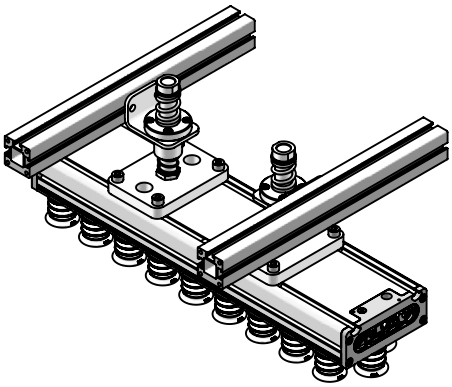
Model	Size (mm)	
	L	L1
ATC-□-SVK(SW) 294 MX55	294	278
ATC-□-SVK(SW) 420 MX55	420	404
ATC-□-SVK(SW) 508 MX55	508	492
ATC-□-SVK(SW) 618 MX55	618	602
ATC-□-SVK(SW) 816 MX55	816	800
ATC-□-SVK(SW) 978 MX55	978	962
ATC-□-SVK(SW) 1212 MX55	1212	1196
ATC-□-SVK(SW) 1410 MX55	1410	1394

P: Compressed air inlet (G1/4)
V: Vacuum port (G1/8)

ATC-MX39/MX55 vacuum gripping system

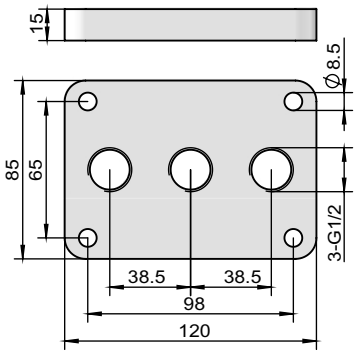
ATC-MX39/MX55 vacuum gripper

ATC...MX39/55 combined gripper installation illustration



Design parameters of FLAN-PL 120X85X15-C mounting plate

FLAN-PL 120X85X15-C



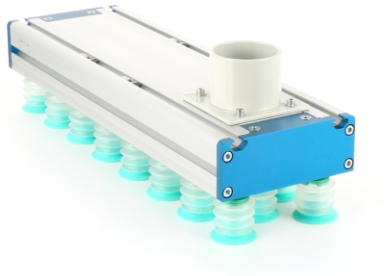
Models of ATC...MX39/55 combined gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 120X85X15-C

ATD-MX39/MX55 vacuum gripping system

ATD-MX39/MX55 vacuum gripper

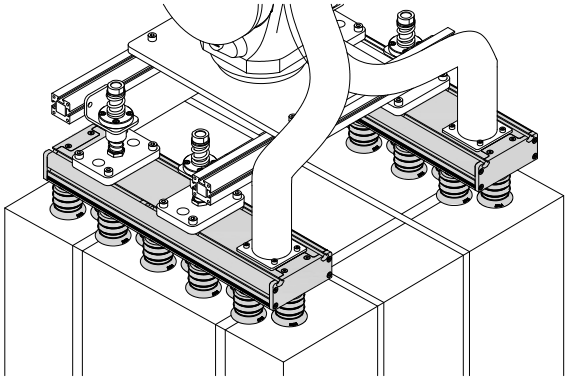
General-purpose



Introduction

- Appropriate to being used in conjunction with a large-flow vacuum pump or vacuum blower
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 130 mm wide; suction surface: MX39/MX55 combined cup

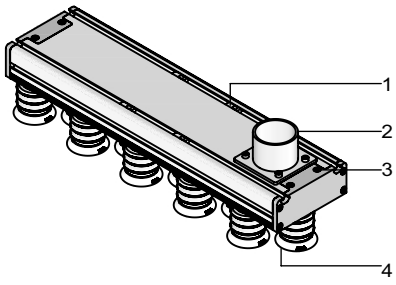
Application of ATD combined gripper



Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

Structure of ATD combined gripper



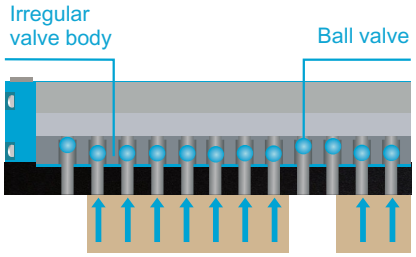
Structure

- (1) M8 slider in the T-slot
- (2) Vacuum blower port
- (3) Vacuum detection port
- (4) Suction surface of combined cup

ATD-MX39/MX55 vacuum gripping system

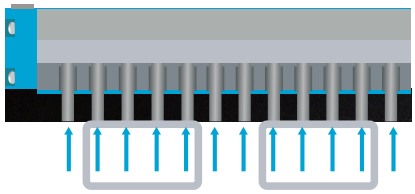
ATD-MX39/MX55 vacuum gripper

SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATD-MX39/MX55 vacuum gripping system

ATD-MX39/MX55 vacuum gripper

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ATD...MX39/MX55 vacuum gripper purchase guide

ATD - SVK 294 MX39

① ② ③ ④

① Product series	② Valve technology	③ Length		④ Cup type
ATD	SVK - Check valve SW - Throttle valve	294mm 420mm 508mm 618mm	816mm 978mm 1212mm 1410mm	MX39 MX55

ATD...MX39/MX55 combined gripper fittings

Name	Model
Combined cup	MG.MX39T50.SK.A3
	MG.MX55T50.SK.A3

Technical parameters of ATD...MX39 combined gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATD-SVK (SW) 294 MX39	15	150	160	2.8
ATD-SVK (SW) 420 MX39	23	300	250	3.6
ATD-SVK (SW) 508 MX39	27	370	295	4.0
ATD-SVK (SW) 618 MX39	33	450	360	4.5
ATD-SVK (SW) 816 MX39	44	600	480	6.8
ATD-SVK (SW) 978 MX39	53	750	580	8.0
ATD-SVK (SW)1212 MX39	66	900	720	9.4
ATD-SVK (SW)1410 MX39	77	1050	840	10.9

Note: The required suction capacity should ensure that when the connecting end pressure is -0.25 bar, the maximum flow cannot exceed 135% of the rated value.

Technical parameters of ATD...MX55 combined gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATD-SVK (SW) 294 MX55	8	150	210	2.4
ATD-SVK (SW) 420 MX55	12	300	320	3.2
ATD-SVK (SW) 508 MX55	15	370	440	3.7
ATD-SVK (SW) 618 MX55	18	450	520	4.2
ATD-SVK (SW) 816 MX55	24	600	610	6.5
ATD-SVK (SW) 978 MX55	29	750	720	7.7
ATD-SVK (SW) 1212 MX55	36	900	800	9.0
ATD-SVK (SW) 1410 MX55	42	1050	900	10.5

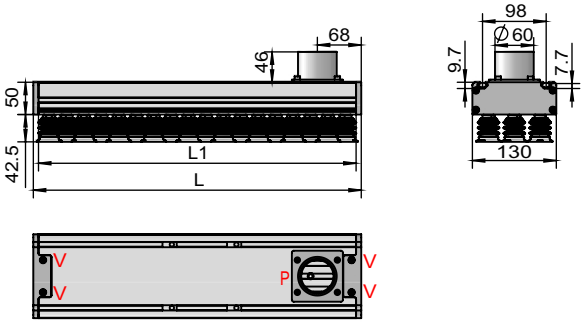
Note: The required suction capacity should ensure that when the connecting end pressure is -0.25 bar, the maximum flow cannot exceed 135% of the rated value.

ATD-MX39/MX55 vacuum gripping system

ATD-MX39/MX55 vacuum gripper

Technical parameters of ATD...MX39/MX55 combined gripper

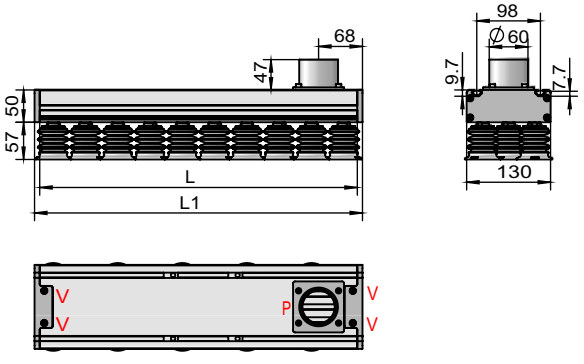
ATD...MX39 (294 to 1410)



Model	Size (mm)	
	L	L1
ATD-SVK(SW)294 MX39	294	278
ATD-SVK(SW)420 MX39	420	404
ATD-SVK(SW)508 MX39	508	492
ATD-SVK(SW)618 MX39	618	602
ATD-SVK(SW)816 MX39	816	800
ATD-SVK(SW)978 MX39	978	962
ATD-SVK(SW)1212 MX39	1212	1196
ATD-SVK(SW)1410 MX39	1410	1394

P: Vacuum blower port
V: Vacuum port (G1/8)

ATD...MX55 (294 to 1410)



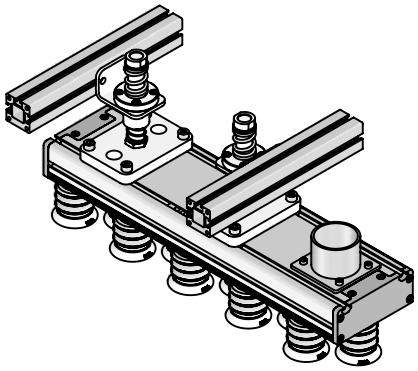
Model	Size (mm)	
	L	L1
ATD-SVK(SW)294 MX55	294	278
ATD-SVK(SW)420 MX55	420	404
ATD-SVK(SW)508 MX55	508	492
ATD-SVK(SW)618 MX55	618	602
ATD-SVK(SW)816 MX55	816	800
ATD-SVK(SW)978 MX55	978	962
ATD-SVK(SW)1212 MX55	1212	1196
ATD-SVK(SW)1410 MX55	1410	1394

P: Vacuum blower port
V: Vacuum port (G1/8)

ATD-MX39/MX55 vacuum gripping system

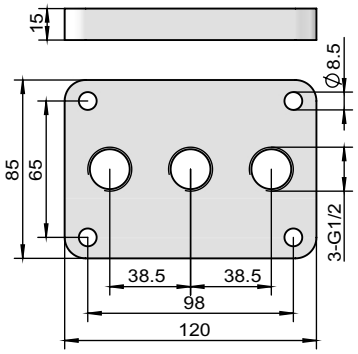
ATD-MX39/MX55 vacuum gripper

ATD...MX39/55 combined gripper installation illustration



Design parameters of FLAN-PL 120X85X15-C mounting plate

FLAN-PL 120X85X15-C



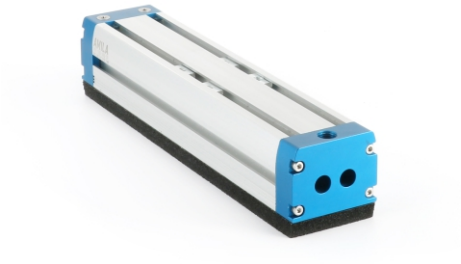
Models of ATD...MX39/55 combined gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 120X85X15-C

ATE vacuum gripping system

ATE foam gripper

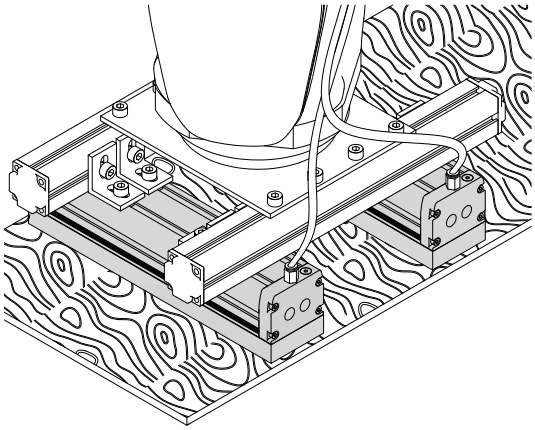
General-purpose



Introduction

- Suitable for applications with compressed air supplied on-site
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M6×1 sliders)
- 65mm wide, foam suction surface

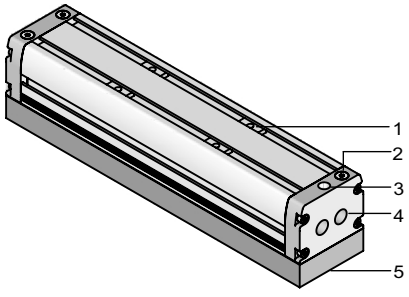
Application of ATE foam gripper



Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

Structure of ATE foam gripper



Structure

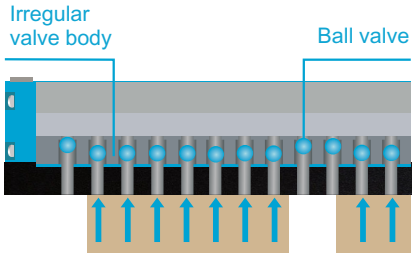
- (1) M6 slider in the T-slot
- (2) Vacuum detection port
- (3) Compressed air inlet
- (4) Exhaust port
- (5) Foam suction surface

ATE vacuum gripping system

ATE foam gripper

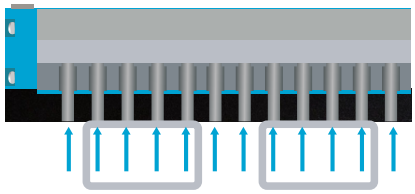
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SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

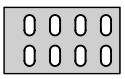
ATE foam gripper purchase guide

ATE - SVK 200 20 F
① ② ③ ④ ⑤

① Product series	② Valve technology	③ Length	④ Foam thickness	⑤ Foam type
ATE	SVK - Check valve SW - Throttle valve	200mm 400mm 250mm 500mm 300mm 600mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

ATE foam gripper sealing part purchase guide

M-PL 200×65 20 F
① ② ③ ④

① Product series	② Foam size	③ Foam thickness	④ Foam type
M-PL	200×65mm 250×65mm 300×65mm 400×65mm 500×65mm 600×65mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam Illustration of holes in foam 

ATE vacuum gripping system

ATE foam gripper

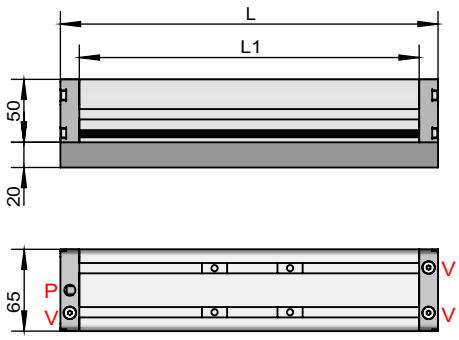
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Technical parameters of ATE foam gripper

Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATE-SVK 200...	14	90	70	72	1.1
ATE-SVK 250...	18	90	70	93	1.4
ATE-SVK 300...	22	90	70	113	1.7
ATE-SVK 400...	30	180	70	155	2.1
ATE-SVK 500...	38	180	70	196	2.4
ATE-SVK 600...	46	180	70	237	2.7
ATE-SW 200...	14	90	70	57	1.1
ATE-SW 250...	18	90	70	74	1.4
ATE-SW 300...	22	90	70	90	1.7
ATE-SW 400...	30	180	70	124	2.1
ATE-SW 500...	38	180	70	157	2.4
ATE-SW 600...	46	180	70	190	2.7

Design parameters of ATE foam gripper

ATE-□ 200 to 600



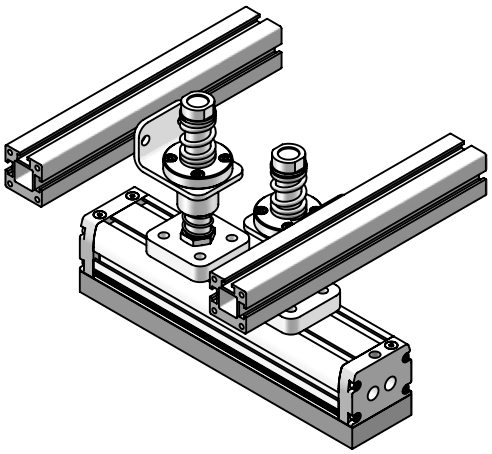
Model	Size (mm)	
	L	**L1**
ATE-SVK(SW)200...	200	170
ATE-SVK(SW)250...	250	220
ATE-SVK(SW)300...	300	270
ATE-SVK(SW)400...	400	370
ATE-SVK(SW)500...	500	470
ATE-SVK(SW)600...	600	570

P: Compressed air inlet (G1/8)
V: Vacuum port (G1/8)

ATE vacuum gripping system

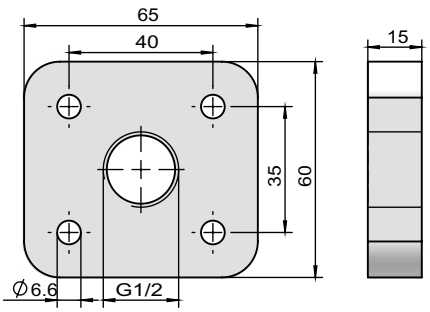
ATE foam gripper

ATE foam gripper installation illustration



Design parameters of FLAN-PL 65X60X15-E mounting plate

FLAN-PL 65X60X15-E



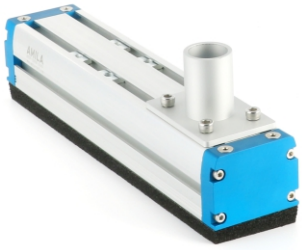
Models of ATE foam gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 65X60X15-E

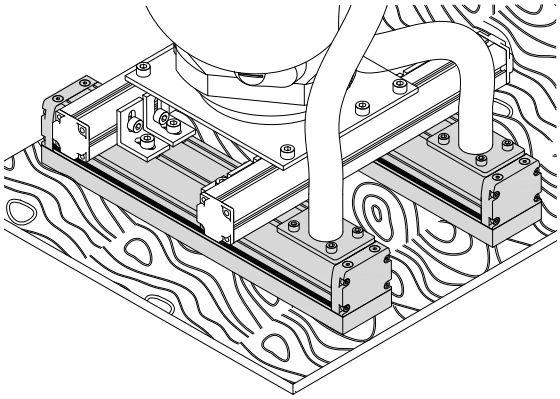
ATF vacuum gripping system

ATF foam gripper

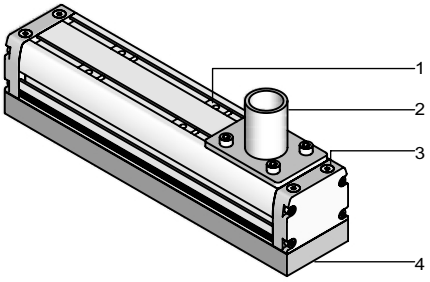
General-purpose



Application of ATF foam gripper



Structure of ATF foam gripper



Introduction

- Appropriate to being used in conjunction with a large-flow vacuum pump or vacuum blower
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M6×1 sliders)
- 65 mm wide, foam suction surface

Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniformsize

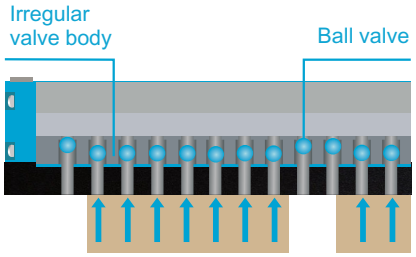
Structure

- (1) M6 slider in the T-slot
- (2) Vacuum blower port
- (3) Vacuum detection port
- (4) Foam suction surface

ATF vacuum gripping system
ATF foam gripper

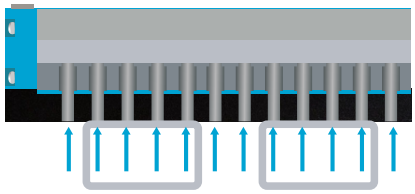
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SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATF vacuum gripping system
ATF foam gripper

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ATF foam gripper purchase guide

ATF - SVK 200 20 F

① ② ③ ④ ⑤

① Product series	② Valve technology	③ Length		④ Foam thickness	⑤ Foam type
ATF	SVK - Check valve SW - Throttle valve	200mm 250mm 300mm	400mm 500mm 600mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

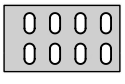
ATF foam gripper sealing part purchase guide

M-PL 200×65 20 F

① ② ③ ④

① Product series	② Foam size	③ Foam thickness	④ Foam type
M-PL	200×65mm 250×65mm 300×65mm 400×65mm 500×65mm 600×65mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

Illustration of holes in foam



ATF vacuum gripping system
ATF foam gripper

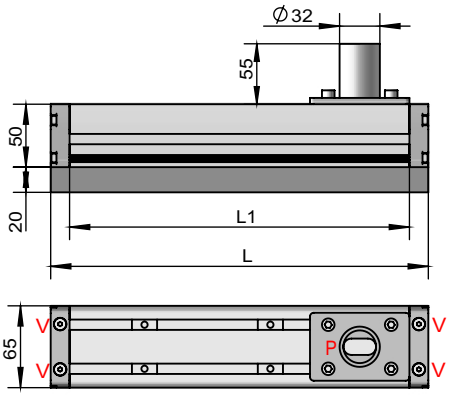
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Technical parameters of ATF foam gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATF-SVK 200...	14	150	56	1.1
ATF-SVK 250...	18	300	88	1.4
ATF-SVK 300...	22	380	120	1.7
ATF-SVK 400...	30	500	152	2.1
ATF-SVK 500...	38	600	184	2.4
ATF-SVK 600...	46	750	216	2.7
ATF-SW 200...	14	150	56	1.1
ATF-SW 250...	18	300	88	1.4
ATF-SW 300...	22	380	120	1.7
ATF-SW 400...	30	500	152	2.1
ATF-SW 500...	38	600	184	2.4
ATF-SW 600...	46	750	216	2.7

Design parameters of ATF foam gripper

ATF-□ 200 to 600



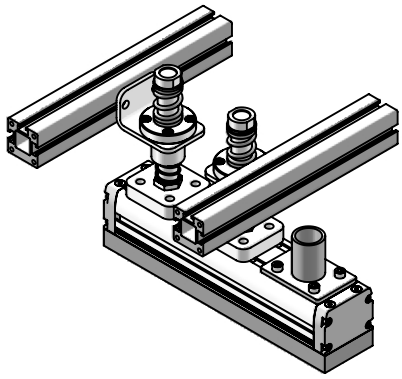
Model	Size (mm)	
	L	**L1**
ATF-SVK(SW)200...	200	170
ATF SVK(SW)250...	250	220
ATF-SVK(SW)300...	300	270
ATF-SVK(SW)400...	400	370
ATF-SVK(SW)500...	500	470
ATF-SVK(SW)600...	600	570

P: Vacuum blower port
V: Vacuum port (G1/8)

ATF vacuum gripping system
ATF foam gripper

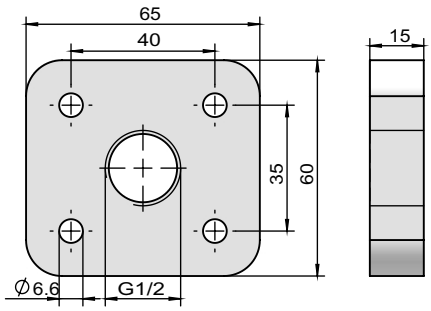
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ATF foam gripper installation illustration



Design parameters of FLAN-PL 65X60X15-E mounting plate

FLAN-PL 65X60X15-E

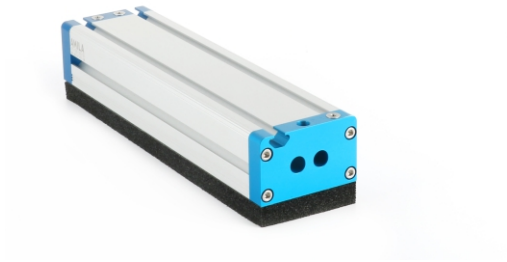


Models of ATF foam gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 65X60X15-E

ATS vacuum gripping system
ATS foam gripper

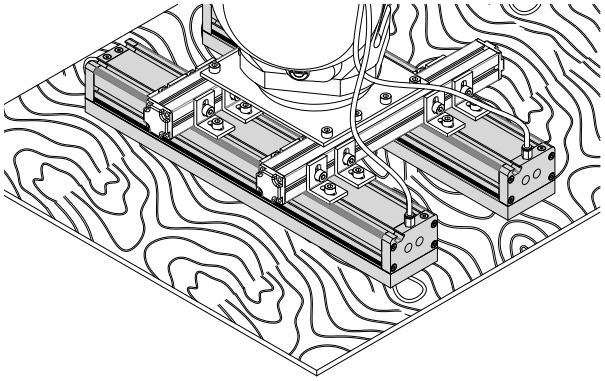
General-purpose



Introduction

- Suitable for applications with compressed air supplied on-site
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 80 mm wide, foam suction surface

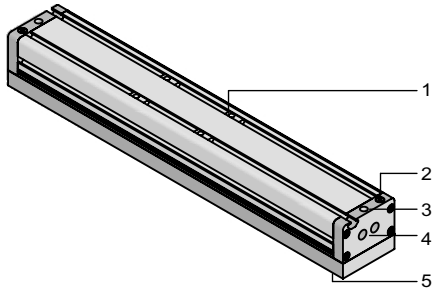
Application of ATS foam gripper



Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

Structure of ATS foam gripper



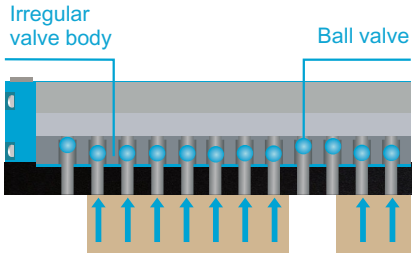
Structure

- (1) M8 slider in the T-slot
- (2) Vacuum detection port
- (3) Compressed air inlet
- (4) Exhaust port
- (5) Foam suction surface

ATS vacuum gripping system
ATS foam gripper

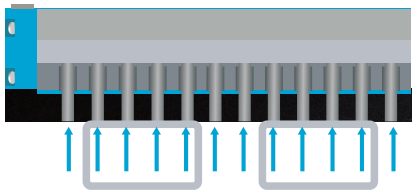
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SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

ATS foam gripper purchase guide

ATS - SVK 276 20 F

① ② ③ ④ ⑤

① Product series	② Valve technology	③ Length		④ Foam thickness	⑤ Foam type
ATS	SVK - Check valve SW - Throttle valve	276mm 303mm 410mm 520mm 600mm	816mm 978mm 1221mm 1410mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

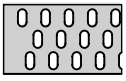
ATS foam gripper sealing part purchase guide

M-PL 276×80 20 F

① ② ③ ④

① Product series	② Foam size	③ Foam thickness	④ Foam type
M-PL	276×80mm 303×80mm 410×80mm 520×80mm 600×80mm 816×80mm 978×80mm 1221×80mm 1410×80mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

Illustration of holes in foam



ATS vacuum gripping system
ATS foam gripper

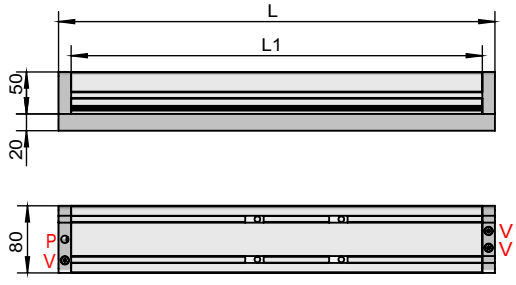
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Technical parameters of ATS foam gripper

Model	Number of suction holes	Air consumption l/min	Maximum vacuum degree %	Suction force N	Weight kg
ATS-SVK 276...	27	90	70	337	1.6
ATS-SVK 303...	30	90	70	374	1.7
ATS-SVK 410...	42	180	70	524	2
ATS-SVK 520...	54	180	70	674	2.4
ATS-SVK 600...	63	180	70	787	2.7
ATS-SVK 816...	87	270	70	1087	3.3
ATS-SVK 978...	105	270	70	1311	4
ATS-SVK 1221...	132	360	70	1649	5.1
ATS-SVK 1410...	153	360	70	1911	5.8
ATS-SW 276...	27	90	70	269	1.6
ATS-SW 303...	30	90	70	299	1.7
ATS-SW 410...	42	180	70	419	2
ATS-SW 520...	54	180	70	539	2.4
ATS-SW 600...	63	180	70	629	2.7
ATS-SW 816...	87	270	70	869	3.3
ATS-SW 978...	105	270	70	1049	4
ATS-SW 1221...	132	360	70	1319	5.1
ATS-SW 1410...	153	360	70	1529	5.8

Design parameters of ATS foam gripper

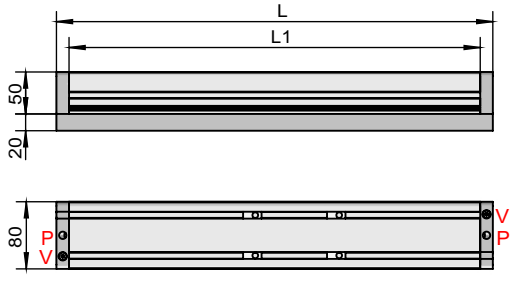
ATS-□ 276 to 600



P: Compressed air inlet (G1/8)
V: Vacuum port (G1/8)

Model	Size (mm)	
	L	**L1**
ATS-SVK(SW)276...	276	246
ATS-SVK(SW)303...	303	273
ATS-SVK(SW)410...	410	380
ATS-SVK(SW)520...	520	490
ATS-SVK(SW)600...	600	570

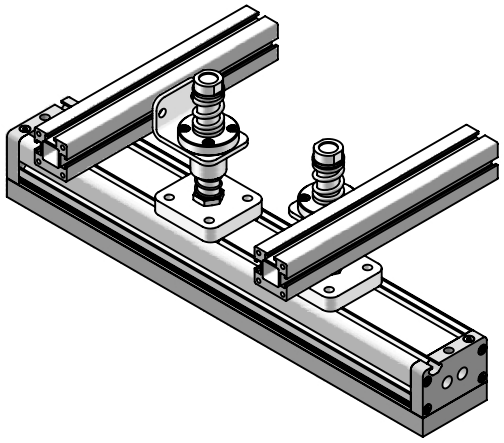
ATS-□ 816 to 1410



P: Compressed air inlet (G1/8)
V: Vacuum port (G1/8)

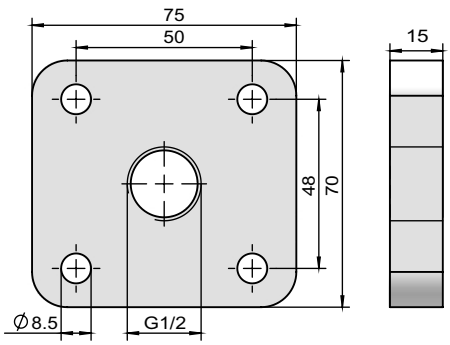
Model	Size (mm)	
	L	**L1**
ATS-SVK(SW)816...	816	786
ATS-SVK(SW)978...	978	948
ATS-SVK(SW)1221...	1221	1191
ATS-SVK(SW)1410...	1410	1380

ATS foam gripper installation illustration



Design parameters of FLAN-PL 75X70X15-S mounting plate

FLAN-PL 75X70X15-S

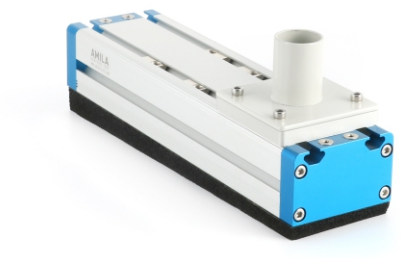


Models of ATS foam gripper fittings

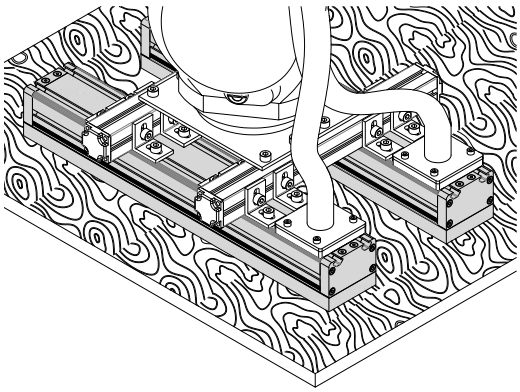
Fitting Name	Product Model
Mounting plate	FLAN-PL 75X70X15-S

ATK vacuum gripping system
ATK foam gripper

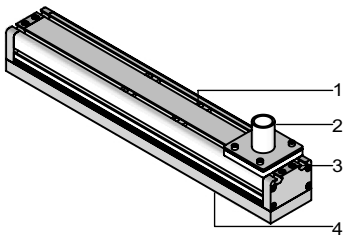
General-purpose



Application of ATK foam gripper



Structure of ATK foam gripper



Introduction

- Appropriate to being used in conjunction with a large-flow vacuum pump or vacuum blower
- Light, high-strength casing made of quality aluminum alloy
- Options offered for internal check valve and throttle valve structure
- T-slot installation (with M8×1.25 sliders)
- 80 mm wide, foam suction surface

Application

- Mainly used for packaging, e.g. smart warehousing, smart logistics, piling and unpiling, etc.
- The gripper with check valve can be used to suction irregular workpieces with leakage to a certain degree and in non-uniform size

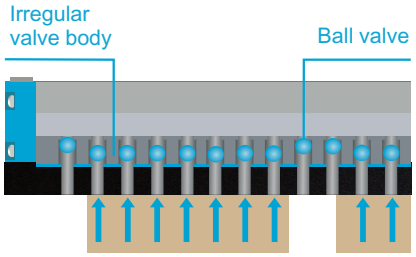
Structure

- (1) M8 slider in the T-slot
- (2) Vacuum blower port
- (3) Vacuum detection port
- (4) Foam suction surface

ATK vacuum gripping system
ATK foam gripper

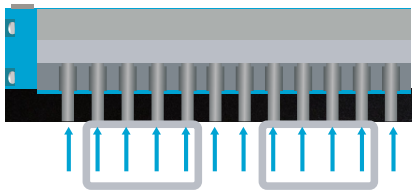
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SVK check valve technology



- A mechanical check valve is mounted to the profiled aluminum plate. When the suction holes in the foam do not cover the workpiece, the check valve will automatically close to ensure the vacuum degree of the system
- The air leakage preExhaust portion function enables higher handling efficiency and suction force
- The irregular valve with a larger diameter to allow larger flow to pass through can be used for quick gripping and releasing and can meet the demand for handling workpieces with uneven surfaces

SW throttle valve technology



- The internal throttle minimizes the vacuum leakage in the suction area not covering the workpiece
- Applicable to tipping over and quick handling
- Options offered for throttle valve diameter

Model selection guide

Application Feature	SVK	SW
Smooth and highly airtight workpiece surfaces (such as metal sheets, glass, painted wood, etc.)	√	√
Breathable workpieces (such as cardboards, bags, bare wood, etc.)	√	
Uneven workpiece surfaces	√	
Small workpiece suction area, low coverage of suction holes of the gripper (e.g. tubes, profiled materials)	√	
Minimized operating cycle (faster blowing and releasing)	√	
Optimized energy efficiency	√	
Tipping-over operation angle > 45°		√

Application Feature	SVK	SW
Minimized disturbance caused by mismatch between tube diameter and external vacuum generator	√	
Easy installation, quick connection	√	
Minimized system cost (the input cost involves the vacuum generating unit, hose and controller)	√	
Minimized operating cost (due to the electric vacuum generator used), especially in the event of more grippers required	√	
Highly breathable workpieces handled	√	

Application Feature	Sponge	Rubber cup
Rigid workpieces such as plates, metal sheets, profiled materials and pallets	√	√
Flexible workpieces such as cartons, bags, packages and pallets	√	√
Long thin workpieces and plates	√	
Rough workpiece surfaces with patterns	√	
Palletized small workpiece handling, e.g. canned food (opened/closed), tins	√	

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ATK foam gripper purchase guide

ATK - SVK 276 20 F

① ② ③ ④ ⑤

① Product series	② Valve technology	③ Length		④ Foam thickness	⑤ Foam type
ATK	SVK - Check valve SW - Throttle valve	276mm 303mm 410mm 520mm 600mm	816mm 978mm 1221mm 1410mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

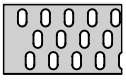
ATK foam gripper sealing part purchase guide

M-PL 276×80 20 F

① ② ③ ④

① Product series	② Foam size	③ Foam thickness	④ Foam type
M-PL	276×80mm 303×80mm 410×80mm 520×80mm 600×80mm 816×80mm 978×80mm 1221×80mm 1410×80mm	10 - 10mm 20 - 20mm Customizable thickness	Null – No foam filter F - With foam filter H - No filter and traceless foam FH – With filter and traceless foam

Illustration of holes in foam



ATK vacuum gripping system
ATK foam gripper

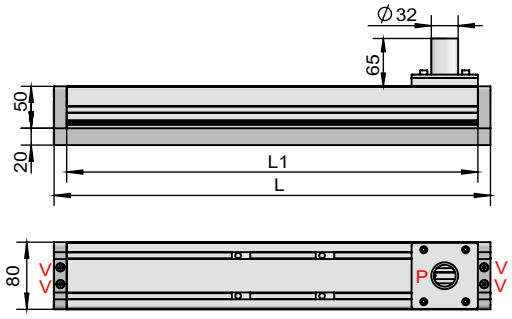
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Technical parameters of ATK foam gripper

Model	Number of suction holes	Required suction capacity l/min	Suction force N	Weight kg
ATK-SVK 276...	27	135	192	1.4
ATK-SVK 303...	30	150	214	1.5
ATK-SVK 410...	42	180	299	1.8
ATK-SVK 520...	54	270	385	2.2
ATK-SVK 600...	63	300	449	2.5
ATK-SVK 816...	87	370	621	3.1
ATK-SVK 978...	105	450	744	3.8
ATK-SVK 1221...	132	600	942	4.7
ATK-SVK 1410...	153	750	1092	5.4
ATK-SW 276...	27	135	154	1.4
ATK-SW 303...	30	150	171	1.5
ATK-SW 410...	42	180	239	1.8
ATK-SW 520...	54	270	308	2.2
ATK-SW 600...	63	300	359	2.5
ATK-SW 816...	87	370	446	3.1
ATK-SW 978...	105	450	599	3.8
ATK-SW 1221...	132	600	753	4.7
ATK-SW 1410...	153	750	873	5.4

Design parameters of ATK foam gripper

ATK-□ 276 to 1410



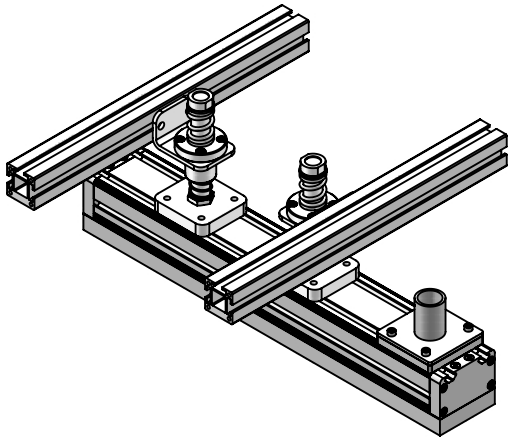
Model	Size (mm)	
	L	**L1**
ATK-SVK(SW)276...	276	246
ATK-SVK(SW)303...	303	273
ATK-SVK(SW)410...	410	380
ATK-SVK(SW)520...	520	490
ATK-SVK(SW)600...	600	570
ATK-SVK(SW)816...	816	786
ATK-SVK(SW)978...	978	948
ATK-SVK(SW)1221...	1221	1191
ATK-SVK(SW)1410...	1410	1380

P: Vacuum blower port
V: Vacuum port (G1/8)

ATK vacuum gripping system
ATK foam gripper

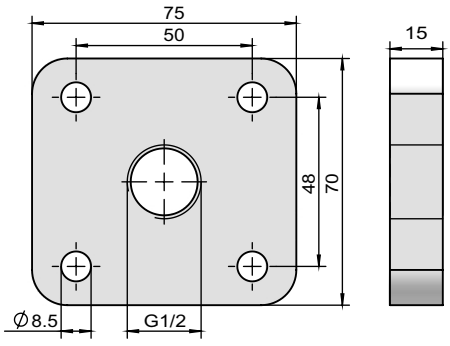
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ATK foam gripper installation illustration



Design parameters of FLAN-PL 75X70X15-S mounting plate

FLAN-PL 75X70X15-S



Models of ATK foam gripper fittings

Fitting Name	Product Model
Mounting plate	FLAN-PL 75X70X15-S

Mini foam gripper
MPT mini foam gripper

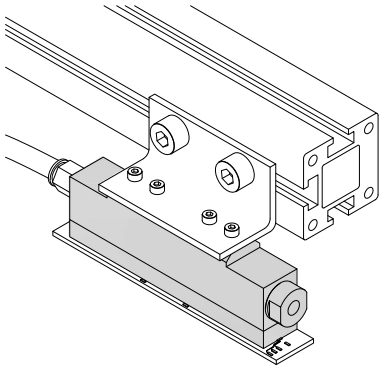
3C product Packaging



Introduction

- Internal vacuum generator, main body of aluminum oxide, well-wearing foam
- Small size, easy installation, good suction stability, easy maintenance
- The customer can choose the appropriate model according to the actual application. The internal generator can save space structure, and then quickly generates vacuum ,easily controlled.
- The foam type can achieve gentle contact, and can achieve traceless handling, traceless gripping and blind suction without positioning when contacting glass and other sensitive workpieces.

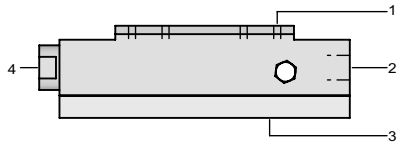
Application of MPT mini foam gripper



Application

- Used to suction light small sensitive workpieces such as 3C products, glass screens, electronic components and PCBs, etc.
- The foam type can also be used for packaging, e.g. sorting, label sticking, etc.

Structure of MPT mini foam gripper



Structure

- (1) Mounting hole
- (2) Compressed air inlet
- (3) Foam suction surface
- (4) Exhaust port

Mini foam gripper
MPT mini foam gripper

AMILA

MPT mini foam gripper purchase guide

MPT - SW - 61 × 18

① ② ③

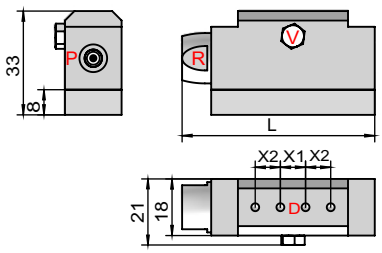
Product series	Vacuum generation mode	Size specification
①	②	③
MPT	SW - Throttle valve	61 × 18 111 × 18

Technical parameters of MPT mini foam gripper

Model	Maximum vacuum degree %	Air consumption l/min	Suction force N	Weight kg
MPT-SW-61 × 18	85	36	6.2	0.1
MPT-SW-111 × 18	85	36	15.7	0.2

Design parameters of MPT mini foam gripper

MPT-SW □



P: Compressed air inlet (G1/8)
V: Vacuum detection port (G1/8)
R: Exhaust port
D: Mounting hole (M3)

Model	Size (mm)		
	L	X1	X2
MPT-SW-61×18	61	8	8
MPT-SW-111×18	111	28	12

Mini foam gripper
MPM mini foam gripper

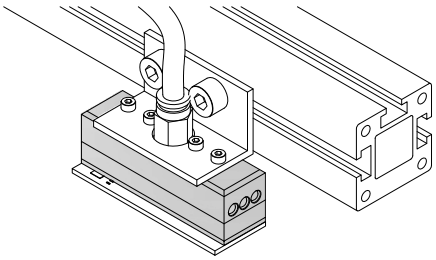
3C product Packaging



Introduction

- External vacuum generator, main body of aluminum oxide,well-wearing foam
- Small size, easy installation, good suction stability, easy maintenance
- The foam type can achieve gentle contact, and can achieve traceless handling, traceless gripping and blind suction without positioning when contacting glass and other sensitive workpieces.

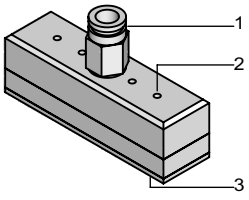
Application of MPM mini foam gripper



Application

- Used to suction light small sensitive workpieces such as 3C products, glass screens, electronic components and PCBs, etc.
- The foam type can also be used for packaging, e.g. sorting, label sticking, etc.

Structure of MPM mini foam gripper



Structure

- (1) Vacuum port
- (2) Mounting hole
- (3) Foam suction surface

Mini foam gripper
MPM mini foam gripper

AMILA

MPM mini foam gripper purchase guide

MPM - SW - 38 × 22

① ② ③

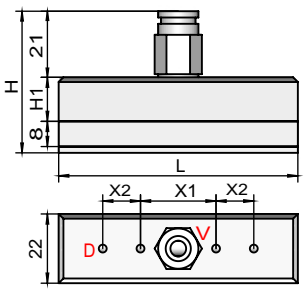
① Product series	② Vacuum generation mode	③ Size specification
MPM	SW - Throttle valve	38 × 22 76 × 22

Technical parameters of MPM mini foam gripper

Model	Number of suction holes	Suction force N	Weight kg
MPM-SW-38 × 22	11	16	0.03
MPM-SW-76 × 22	26	40	0.06

Design parameters of MPM mini foam gripper

MPM-SW □



V: Vacuum port (G1/8)
D: Mounting hole (M3)

Model	Size (mm)				
	H	**H1**	**L**	**X1**	**X2**
MPM-SW-38×22	44	13	38	24	-
MPM-SW-76×22	45	14	76	24	12

ATX foam gripper

ATX foam gripper

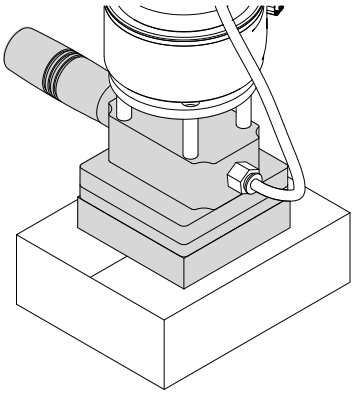
3C product Packaging



Introduction

- Internal vacuum generator, main body of aluminum oxide, well-wearing foam
- Small size, easy installation, good suction stability
- Foam's suction area of 80×80mm or 120×120mm

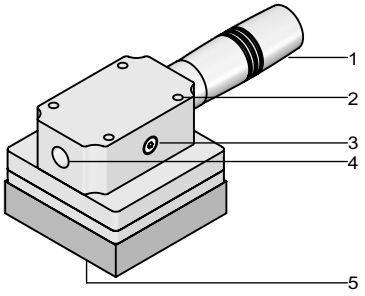
Application of ATX foam gripper



Application

- Applicable to light small sensitive workpieces such as 3C products, glass, electronic components, etc.
- Packaging such as sorting, packing

Structure of ATX foam gripper



Structure

- (1) Silencer
- (2) Mounting hole
- (3) Vacuum detection port
- (4) Compressed air inlet
- (5) Foam suction surface

ATX foam gripper
ATX foam gripper

AMILA

ATX foam gripper purchase guide

ATX - SW - 80×80 - 10

① ② ③ ④

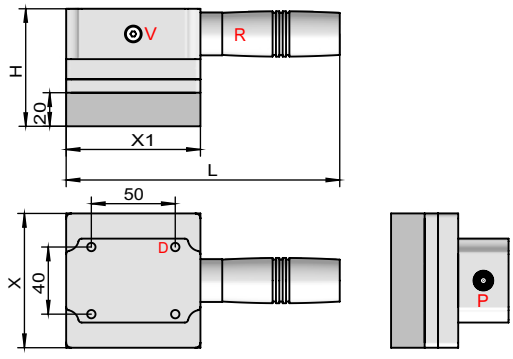
① Product series	② Vacuum generation mode	③ Size specification	④ Foam thickness
ATX	SW - Throttle valve SVK - Check valve	80×80 120×120	10 - 10mm 20 - 20mm Customizable thickness

Technical parameters of ATX foam gripper

Model	Maximum vacuum degree	Air consumption	Suction force	Weight
	%	l/min	N	kg
ATX-SW-80×80-□	70	90	108	0.4
ATX-SVK-80×80-□	70	90	137	0.6
ATX-SW-120×120-□	70	90	311	0.9
ATX-SVK-120×120-□	70	90	198	1.1

Design parameters of ATX foam gripper

ATX-SW/SVK - □



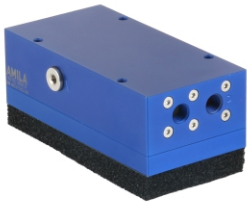
P: Compressed air inlet (G1/4)
V: Vacuum detection port (G1/8)
R: Exhaust port
D: Mounting hole (M6)

Model	Size (mm)			
	H	L	X	X1
ATX-SW-80×80-□	64	158	80	80
ATX-SVK-80×80-□	72	158	80	80
ATX-SW-120×120-□	64	178	120	120
ATX-SVK-120×120-□	72	178	120	120

ABX foam gripper

ABX foam gripper

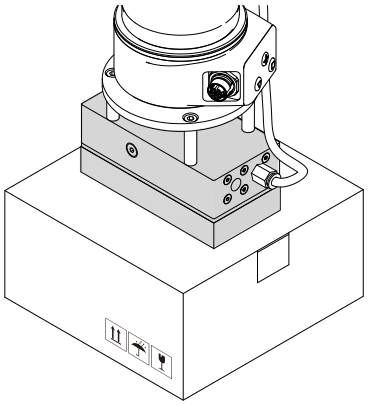
3C product Packaging



Introduction

- Internal vacuum generator, main body of aluminum oxide, well-wearing foam
- Small size, easy installation, good suction stability
- Foam's suction area of 120×60mm, high adaptability

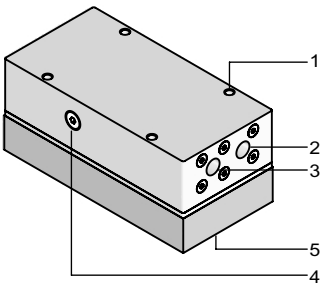
Application of ABX foam gripper



Application

- Applicable to handling and sorting light small workpieces, gripping porous workpieces, as well as the effective gripping in the eExhaust port leakage

Structure of ABX foam gripper



Structure

- (1) Mounting hole
- (2) Compressed air inlet
- (3) Exhaust port
- (4) Vacuum detection port
- (5) Foam suction surface

ABX foam gripper
ABX foam gripper

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ABX foam gripper purchase guide

ABX - SW - 120 × 60 - 10

① ② ③ ④

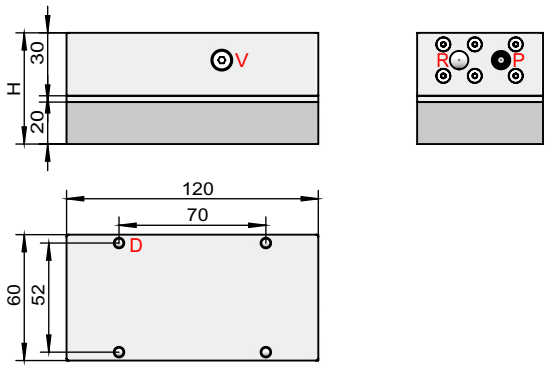
① Product series	② Vacuum generation mode	③ Size specification	④ Foam thickness
ABX	SW - Throttle valve SVK - Check valve	120 × 60	10 - 10mm 20 - 20mm Customizable thickness

Technical parameters of ABX foam gripper

Model	Maximum vacuum degree	Air consumption	Suction force	Weight
	%	l/min	N	kg
ABX-SW-120-60-□	70	90	115	0.7
ABX-SVK-120-60-□	70	90	115	0.8

Design parameters of ABX foam gripper

ABX-SW/SVK- 120 × 60



P: Compressed air inlet (G1/8)
V: Vacuum detection port (G1/8)
R: Exhaust port
D: Mounting hole (M5)

Model	Size (mm)
	H
ABX-SW-120×60-□	53
ABX-SVK-120×60-□	60

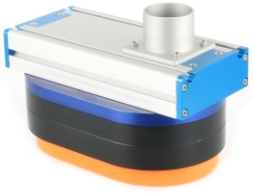
Soft bag vacuum gripper

MSG soft bag gripper

Packaging



MSG-X

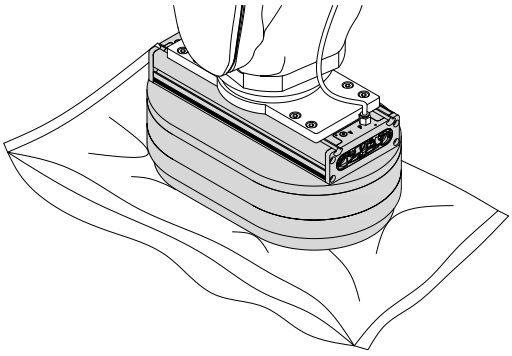


MSG-M

Introduction

- Applicable to gripping logistics soft bags
- With high strength, mainly used for heavy-duty operations
- Grips products stably and quickly
- Flexible contact surface, increased suction area, maximized suction force

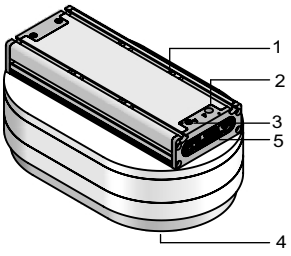
Application of MSG soft bag gripper



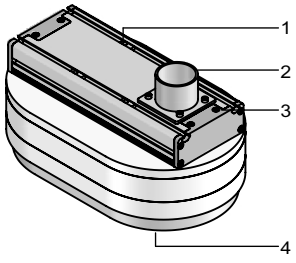
Application

- Applicable to handling bagged products in different shapes or of different weight or materials, e.g. rice bags, fertilizer bags, etc.
- Applicable to chassis handling, palletized conveying system and non-palletized conveying system

Structure of MSG soft bag gripper



MSG-X



MSG-M

Structure

- (1) M8 slider in the T-slot
- (2) Compressed air inlet (MSG-X) / Vacuum blower port (MSG-M)
- (3) Vacuum detection port
- (4) Foam suction surface
- (5) Exhaust port

Soft bag vacuum gripper

MSG soft bag gripper

AMILA

MSG soft bag gripper purchase guide

MSG - X - 270 × 170

① ② ③

① Product series	② Vacuum generation mode	③ Size specification
MSG	X - Internal vacuum generator M - External vacuum device	270 × 170 380 × 230 450 × 250

Technical parameters of MSG-X soft bag gripper

Model	Air consumption l/min	Weight kg
MSG-X-270 × 170	90	5.3
MSG-X-380 × 230	180	9
MSG-X-450 × 250	270	9.5

Technical parameters of MSG-M soft bag gripper

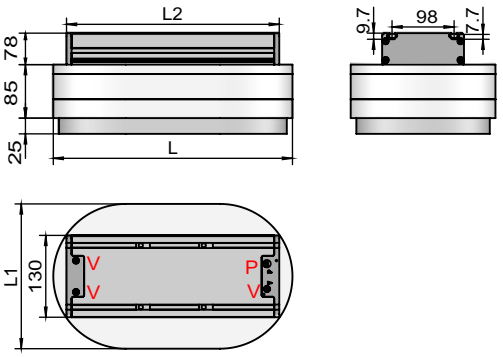
Model	Air consumption l/min	Weight kg
MSG-M-270 × 170	360	4.1
MSG-M-380 × 230	724	7.7
MSG-M-450 × 250	1086	8.2

Soft bag vacuum gripper

MSG soft bag gripper

Design parameters of MSG soft bag gripper

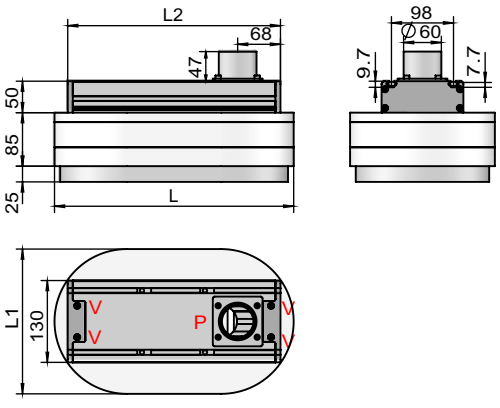
MSG-X□



P: Compressed air inlet (G1/4)
V: Vacuum detection port (G1/8)

Model	Size (mm)		
	L	L1	L2
MSG-X-270×170	270	170	278
MSG-X-380×230	380	230	338
MSG-X-450×250	450	250	398

MSG-M□



P: Vacuum blower port
V: Vacuum detection port (G1/8)

Model	Size (mm)		
	L	L1	L2
MSG-M-270×170	270	170	278
MSG-M-380×230	380	230	338
MSG-M-450×250	450	250	398

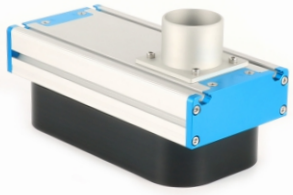
Soft bag vacuum gripper

MSC soft bag gripper

Packaging



MSC-X

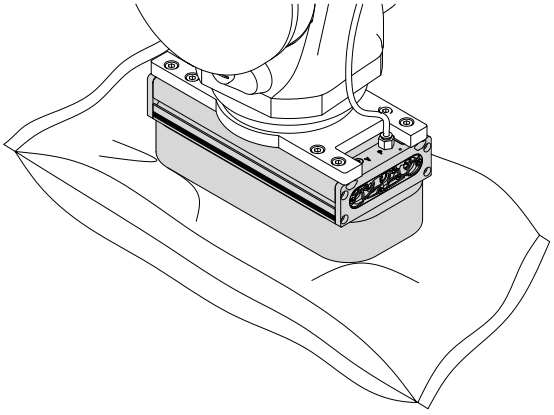


MSC-M

Introduction

- Handles food bag but not liquid bag. Applicable to mobile racks
- Packaging systems, terminal production line automation, handlers, etc.
- Rigid contact surface, low use cost

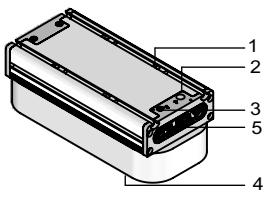
Application of MSC soft bag gripper



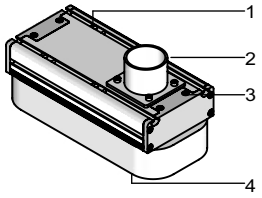
Application

- Mainly used to grip highly deforming objects with highly uneven surfaces and breathability to a certain degree in heavy-duty operations, e.g. suctioning flour bags, rice bags, cement bags, etc.

Structure of MSC soft bag gripper



MSC-X



MSC-M

Structure

- (1) M8 slider in the T-slot
- (2) Compressed air inlet (MSC-X) / Vacuum blower port (MSC-M)
- (3) Vacuum detection port
- (4) Foam suction surface
- (5) Exhaust port

Soft bag vacuum gripper

MSC soft bag gripper

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MSC soft bag gripper purchase guide

MSC - X - 150 × 80

① ② ③

① Product series	② Vacuum generation mode	③ Size specification
MSC	X - Internal vacuum generator M - External vacuum device	150 × 80 300 × 130 200 × 100 300 × 180 200 × 130 350 × 150 200 × 180 350 × 180 250 × 130 350 × 250

Technical parameters of MSC-X soft bag gripper

Model	Air consumption l/min	Weight kg
MSC-X-150 × 80	90	2.5
MSC-X-200 × 100	90	2.7
MSC-X-200 × 130	90	2.9
MSC-X-200 × 180	180	3.2
MSC-X-250 × 130	180	3.2
MSC-X-300 × 130	180	3.4
MSC-X-300 × 180	180	3.6
MSC-X-350 × 150	180	3.6
MSC-X-350 × 180	180	3.8
MSC-X-350 × 250	270	4.1

Technical parameters of MSC-M soft bag gripper

Model	Required minimum suction capacity l/min	Weight kg
MSC-M-150 × 80	360	1.3
MSC-M-200 × 100	360	1.5
MSC-M-200 × 130	360	1.7
MSC-M-200 × 180	724	2.0
MSC-M-250 × 130	724	2.0
MSC-M-300 × 130	724	2.2
MSC-M-300 × 180	724	2.4
MSC-M-350 × 150	724	2.4
MSC-M-350 × 180	724	2.6
MSC-M-350 × 250	1086	2.9

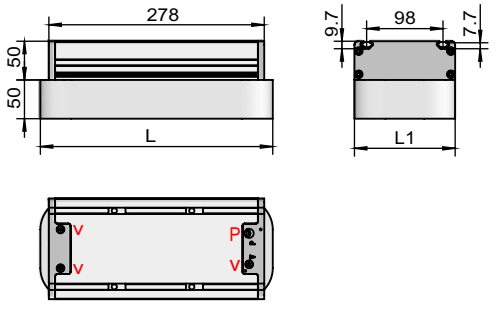
Soft bag vacuum gripper

MSC soft bag gripper

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Design parameters of MSC soft bag gripper

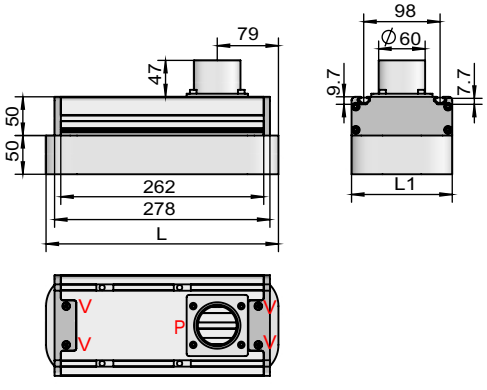
MSC-X □



P: Compressed air inlet (G1/4)
V: Vacuum detection port (G1/8)

Model	Size (mm)	
	L	L1
MSC-X-150×80	150	80
MSC-X-200×100	200	100
MSC-X-200×130	200	130
MSC-X-200×180	200	180
MSC-X-250×130	250	130
MSC-X-300×130	300	130
MSC-X-300×180	300	180
MSC-X-350×150	350	150
MSC-X-350×180	350	180
MSC-X-350×250	350	250

MSC-M □



P: Vacuum blower port
V: Vacuum detection port (G1/8)

Model	Size (mm)	
	L	L1
MSC-M-150×80	150	80
MSC-M-200×100	200	100
MSC-M-200×130	200	130
MSC-M-200×180	200	180
MSC-M-250×130	250	130
MSC-M-300×130	300	130
MSC-M-300×180	300	180
MSC-M-350×150	350	150
MSC-M-350×180	350	180
MSC-M-350×250	350	250

Heavy-duty vacuum gripper

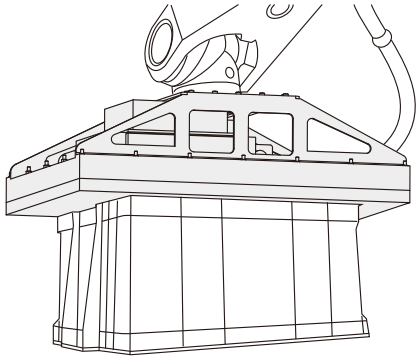
MATD vacuum gripper (non-standard customized)

General -purpose

Heavy-duty



Application of MATD vacuum gripper



Introduction

- The product is designed to have a large area structure
- An external blower is used as the vacuum device
- Sealing parts of cup type / foam type are provided for customer
- The product has an internal check structure
- The large area suction structure is mainly used for heavy-duty operations
- The customer can flexibly choose the appropriate model according to the actual operating condition
- Applicable to gripping products of different industries
- Can grip products of a plurality of specifications
- Can be non-standard customize

Application

- Mainly used for heavy-duty sorting systems, smart warehousing, piling and unpiling, logistics, etc.

MATD vacuum gripper purchase guide

MATD - SVK 1150×750 - A20

① ② ③ ④

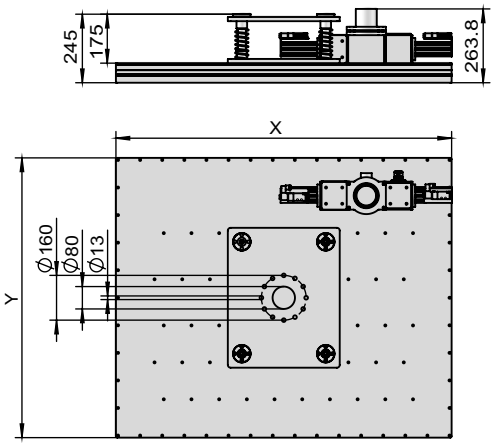
① Product series	② Valve technology	③ Size specification	④ Suction surface type
MATD	SVK - Check valve	1150×750mm 1200×1000mm Note: The size can be customized	A20 - Foam type B40 - Suction cup type

Heavy-duty vacuum gripper
MATD vacuum gripper (non-standard customized)

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Design parameters of MATD vacuum gripper

MATD...



Model	Size (mm)	
	X	Y
MATD-SVK 1150×750-□	1150	750
MATD-SVK 1200×1000-□	1200	1000

Mounting element series

Product overview

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Mounting elements



315 MLK series

Flexible joint

◇ Connection specification: G1/4 -G1/2

◇ Maximum deflection angle: 12°

General-purpose



328 MTE series

Spring plunger

◇ Connection specification: G1/8 -G1/2

◇ Buffering stoke: 15-90mm

General-purpose



317 MGL series

Ball joint

◇ Connection specification: G1/8 -G1/2

◇ Maximum deflection angle: 15°

General-purpose



333 MTI series

Spring plunger

◇ Connection specification: G1/8-G3/8

◇ Buffering stoke: 20-50mm

General-purpose



319 MTEV series

Retractable buffer spring plunger

◇ Connection specification: M5 female thread

◇ Buffering stoke: 5-15mm

3C product



336 MTE- HD series

Heavy-duty buffer spring plunger

◇ Connection specification: G1/8-G1/2

◇ Buffering stoke: 15-90mm

General -purpose

Heavy-duty



321 MP3-CJXU0723 series

Retractable buffer spring plunger

◇ Connection specification: Plug-in,M5 female thread

◇ Buffering stoke: 3-20mm

3C product



340 MTA series

Spring plunger

◇ Connection specification: G1/4-G1/2

◇ Buffering stoke: 25-90mm

General-purpose



326 Mp5 series

Retractable buffer spring plunger

◇ Connection specification: Plug-in, M4 female thread

◇ Buffering stoke: 3-5mm

3C product



343 MTA- HD series

Heavy-duty buffer spring plunger

◇ Connection specification: G1/4-G1/2

◇ Buffering stoke: 25-90mm

General -purpose

Heavy-duty

Mounting element series

Product overview

AMILA

Mounting elements



346 MTAL series
Spring plunger
◇ Connection specification: G1/2
◇ Buffering stoke: 25-75mm

General-purpose



360 PJF series
Universal suction cup mounting fittings
—fixing connectors
◇ Connection specification: M5-G3/8

General-purpose



349 MTE- FLEX series
Suspension flexible spring plunger
◇ Connection specification: G1/2
◇ Buffering stoke: 25-75mm

General-purpose



363 MTR- UNI series
Universal holder
◇ Connection specification: G1/4

General -purpose
Sheet metal



352 MTE-STARR series
Spring plunger
◇ Connection specification: G1/2
◇ Buffering stoke: 25-75mm

General-purpose



366 MTR-STA series
Light metal section holder
◇ Buffer plunger fittings: M5-G1/4

General-purpose



355 MNW series
Adapter for elbow connector
Vacuum connection
◇ specification: M5-G3/8

General-purpose



368 MTR-STS series
Square tube holder
◇ Buffer plunger fittings: M5-G1/2

General-purpose
通 用



358 MVS-GE series
Bulkhead connector
Vacuum connection
◇ specification: G1/8-G1/4

General-purpose



371 MRTO series
Mounting sections
◇ Cross section specification: 40×40

General-purpose

Mounting element series

Product overview

Mounting elements



376 PDA series

Universal plug

◇ Seal specification: Countersunk head

General-purpose



385 PJQ series

Universal pagoda joint

◇ Tube diameter specification: Φ6-Φ60mm

General-purpose



378 PJP series

Universal quick plug-in connector

◇ Inserted tube specification: Φ4-Φ14mm

General-purpose



387 PDR series

Positive pressure / vacuum diverter

◇ Air outlets: 5 sets, 9 sets

◇ Specification of main air port: G1/4 G3/8

General-purpose



382 PJT series

Universal installation fitting—threaded adapter

◇ Connecting thread: M5-G1/2

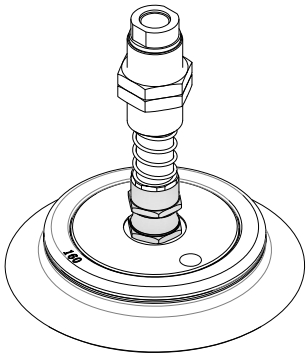
General-purpose

Flexible joint
MLK flexible joint

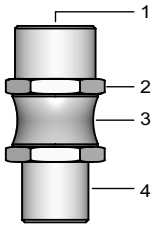
General-purpose



Application of MLK flexible joint



System design of MLK flexible joint



Introduction

- Flexibly connects vacuum suction cup
- Rotary joint consists of metal and rubber
- Low-pivot bending part
- Metal element bonded to rubber element by vulcanization
- Perfectly attaches to workpieces with sloping surfaces
- Reduced wear on suction cups when they are placed on sloping surfaces
- Vacuum seal design, integrated protection structure for preventing damage

Application

- Handling of workpieces with sloping surfaces with the aid of large suction cups or suction plates
- A large workpiece (such as metal sheet, wood board) being handled often has both ends and middle sagging. With the flexible joint, the suction cup can tilt at a certain angle so as to keep well contacting the workpiece without falling.
- Can be used together with spring plungers to compensate for differing workpiece heights and uneven surfaces

Construction

- (1) Connecting thread
- (2) Limit screw
- (3) Rubber buffer
- (4) Connecting thread

Flexible joint
MLK flexible joint

AMILA

MLK flexible joint purchase guide

MLK G1/4-IG G1/4-AG
① ②

① Product series	② Specification of connecting thread	
MLK	G1/4-IG M10×1.25-AG	- G1/4 female thread M10×1 .25 male thread
	G1/4-IG G1/4-AG	- G1/4 female thread G1/4 male thread
	G1/4-AG G1/4-AG	- G1/4 male thread G1/4 male thread
	G1/2-IG G1/2-AG	- G1/2 female thread G1/2 male thread
	G1/2-AG G1/2-AG	- G1/2 male thread G1/2 male thread

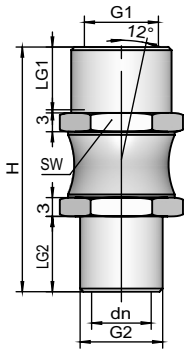
Technical parameters of MLK flexible joint

Model	Vertical load N	Bending moment Nm	Weight g
MLK G1/4-IG M10×1.25-AG	500	8	26
MLK G1/4-IG G1/4-AG	750	10	30
MLK G1/4-AG G1/4-AG	750	10	30
MLK G1/2-IG G1/2-AG	3000	50	100
MLK G1/2-AG G1/2-AG	3000	65	100

Note: MLK IG (female thread) AG (male thread)

Design parameters of MLK flexible joint

MLK ...



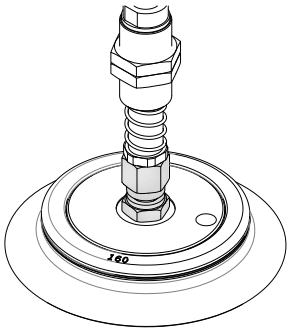
Model	Size (mm)						
	dn	**H**	**LG1**	**LG2**	**G1**	**G2**	**SW**
MLK G1/4-IG M10×1.25-AG	2.8	35	10.5	8	G1/4-IG	M10×1.25-AG	17
MLK G1/4-IG G1/4-AG	3.0	39	12	12	G1/4-IG	G1/4-AG	17
MLK G1/4-AG G1/4-AG	3.0	39	10.5	12	G1/4-AG	G1/4-AG	17
MLK G1/2-IG G1/2-AG	6.0	47.5	14	14	G1/2-IG	G1/2-AG	27
MLK G1/2-AG G1/2-AG	5.5	49	14	14	G1/2-AG	G1/2-AG	27

Ball joint
MGL ball joint

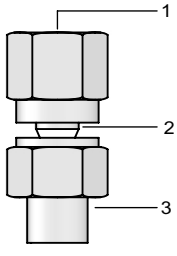
General-purpose



Application of MGL ball joint



System design of MGL ball joint



Introduction

- Flexibly connects vacuum suction cup
- Ball and socket with O-ring seal
- Low center of flexure
- Perfectly adaptation to workpieces with sloping surfaces
- Good sealing, safe operation
- Minimum wear on the suction cup when it is placed on the sloping surface

Application

- Connects large suction cup, applicable to workpieces with sloping surfaces
- Handling of large sheets of materials such as wood or sheet metal which may sag when lifted,can prevents premature pullingoff of the sheet due to one-sided forces
- The ball joint, which can rebound automatically, can be used inconjunction with a buffer spring plunger so as to compensate for the height difference and unevenness of the workpiece.

Structure

- (1) Upper connecting thread
- (2) Ball and socket
- (3) Lower connecting thread

Ball joint
MGL ball joint

AMILA

MGL ball joint purchase guide

MGL G1/4-IG G1/4-AG

① ②

① Product series	② Specification of connecting thread
MGL	G1/8-IG G1/8-AG - G1/8 female thread G1/8 male thread G1/4-IG G1/4-AG - G1/4 female thread G1/4 male thread G1/2-IG G1/2-AG - G1/2 female thread G1/2 male thread G1/4-IG M10×1.25-AG - G1/4 female thread M10×1.25 male thread

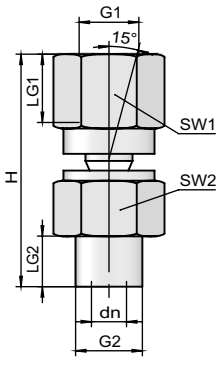
Technical parameters of MGL ball joint

Model	Vertical load N	Maximum deflection angle °	Weight g
MGL G1/8-IG G1/8-AG	300	15	26
MGL G1/4-IG G1/4-AG	1500	15	67
MGL G1/4-IG M10×1.25-AG	1500	15	67
MGL G1/2-IG G1/2-AG	2500	15	116

Note: MGL IG (female thread) AG (male thread)

Design parameters of MGL ball joint

MGL...



Model	Size (mm)							
	dn	**H**	**LG1**	**LG2**	**SW1**	**SW2**	**G1**	**G2**
MGL G1/8-IG G1/8-AG	2.0	33.5	8.5	7	14	14	G1/8-IG	G1/8-AG
MGL G1/4-IG G1/4-AG	3.5	47.5	12.0	10	19	19	G1/4-IG	G1/4-AG
MGL G1/4-IG M10×1.25-AG	3.5	47.5	12.0	10	19	19	G1/4-IG	M10×1.25-AG
MGL G1/2-IG G1/2-AG	4.0	52.0	14.0	12	24	24	G1/2-IG	G1/2-AG

Retractable buffer spring plunger

MTEV spring plunger

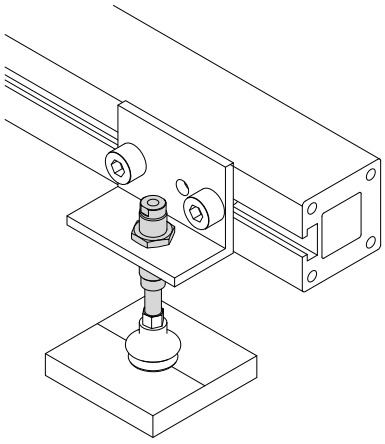
3C product



Introduction

- Spring loaded slightly elastic buffer plunger
- Small size, light weight
- Retractable design
- Optional anti-rotating structure
- Flexible contact without contamination and external mechanical force
- Applicable to quick handling in narrow space

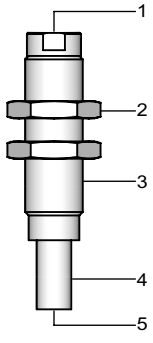
Application of MTEV buffer spring plunger



Application

- Applicable to electronic and lithium battery industries
- Applicable to on-site handling workpieces with height difference
- Suitable applications requiring dust-free operating condition

System design of MTEV buffer spring plunger



Structure

- (1) Generator connecting end
- (2) Mounting and fastening nut
- (3) Guide sleeve
- (4) Plunger
- (5) Suction cup connecting end

Retractable buffer spring plunger

MTEV spring plunger

AMILA

MTEV buffer spring plunger purchase guide

MTEV - 5 - M5-IG - VG

① ② ③ ④

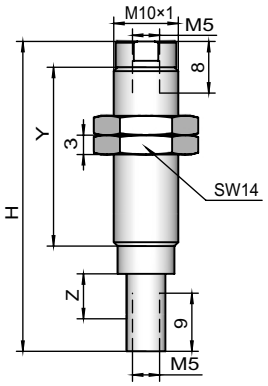
① Product series	② Buffer stoke	③ Vacuum port connecting mode	④ Additional function
MTEV	5 - 5mm 10 - 10mm 15 - 15mm	M5-IG - M5 female thread Note: IG female thread	Null – Not anti-rotating VG - Anti-rotating

Technical parameters of MTEV buffer spring plunger

Model	Spring prestressing	Elastic force	Weight
	N	N	g
MTEV-5-M5-IG-(VG)	2.25	2.9	19.2
MTEV-10-M5-IG-(VG)	2.3	3.4	22.1
MTEV-15-M5-IG-(VG)	2.5	5.35	24.5

Design parameters of MTEV buffer spring plunger

MTEV...



Model	Size (mm)		
	H	**Y**	**Z**
MTEV-5-M5-IG-(VG)	37	21.7	5
MTEV-10-M5-IG-(VG)	48	27.7	10
MTEV-15-M5-IG-(VG)	57.5	32.2	15

Retractable buffer spring plunger

Spring plungers MP3-CJXU0723

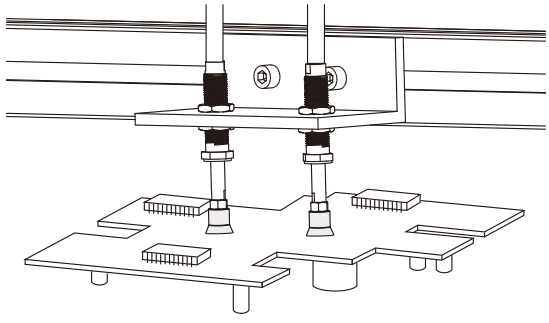
3C product



Introduction

- Spring loaded slightly elastic buffer plunger
- Small size, light weight
- Guide sleeve lined with resin Guide sleeve
- Retractable design
- Flexible contact without contamination and external mechanical force
- Applicable to quick handling in narrow space
- Corrosion-proof and well-wearing
- Less dust, suitable for dust-free operating condition
- During operations tubes keep still without transverse load

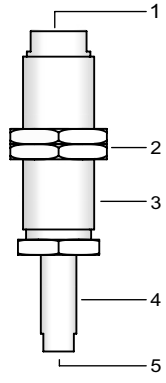
Application of MP3-CJXU0723 buffer spring plunger



Application

- Applicable to electronic industry
- Applicable to handling light small workpieces needing to be contacted gently
- Applicable to on-site handling workpieces with height difference
- Suitable environments requiring dust-free operating condition

System design of MP3-CJXU0723 buffer spring plunger



Structure

- (1) Generator connecting end
- (2) Mounting and fastening nut
- (3) Guide sleeve
- (4) Plunger
- (5) Suction cup connecting end

Retractable buffer spring plunger

Spring plungers MP3-CJXU0723

AMILA

MP3-CJXUO723 buffer spring plunger purchase guide

MP3 D 08 03 S -CJXU0723

① ② ③ ④ ⑤ ⑥

① Product series	② Buffer type	③ Bushing thread	④ Buffering stoke	⑤ Suction cup connecting mode	⑥ Code
MP3	D - Fixed M - Plug-in	08 - M8 × 0.75 10 - M10 × 1 14 - M14 × 1	03mm 06mm 10mm 15mm 20mm	S - Connector-equipped SM - Plunger end inside M5 nut tapping	CJXU0723

Note: When "M" is selected, only the 08 (M8×0.75) bushing thread will be enabled.

Note: When "S" is selected, the 14 (M14×1) bushing thread will be disabled.
When "SM" is selected, the 08 (M8×0.75) bushing thread will be disabled.

Model specifications of MP3-CJXUO723 buffer plunger

Model specification	Buffering stoke					Suction cup connecting mode	
	3mm	6mm	10mm	15mm	20mm	S	SM
MP3 D08...	●	-	-	-	-	●	-
MP3 D10...	-	-	●	●	-	●	●
MP3 D14...	-	-	●	●	●	-	●
MP3 M08...	●	●	-	-	-	●	-

Retractable buffer spring plunger

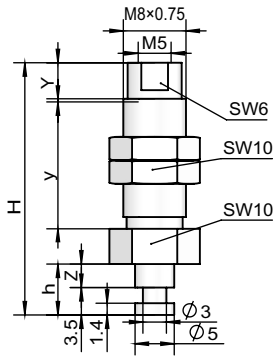
Spring plungers MP3-CJXU0723

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Design parameters of MP3-CJXUO723 buffer spring plunger

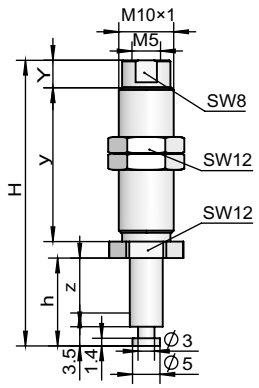
MP3-S-CJXUO723

MP3 D0803S CJXU0723



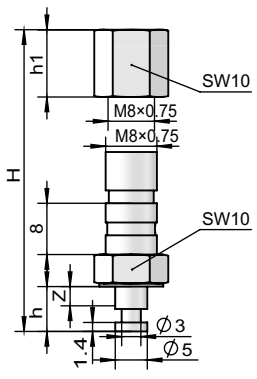
Model	Size (mm)				
	H	h	Y	y	Z
MP3 D0803S-CJXU0723	32.2	6.5	5	17	3

MP3 D1010 to 1015S CJXU0723



Model	Size (mm)				
	H	h	Y	y	Z
MP3 D1010S-CJXU0723	51	15	5	28	10
MP3 D1015S-CJXU0723	62	20	5	34	15

MP3 M0803 to 0806S CJXU0723



Model	Size (mm)			
	H	h	h1	Z
MP3 M0803S-CJXU0723	27.5	7	10.5	3
MP3 M0806S-CJXU0723	36.5	10	13.5	6

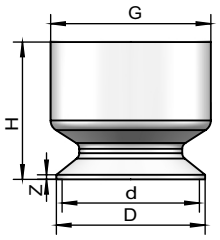
Retractable buffer spring plunger

Spring plungers MP3-CJXU0723

Design parameters of MP3-CJXUO723 buffer spring plunger

Suction cups appropriate to MP3-S-CJXUO723

MP3 04 to 08UM □

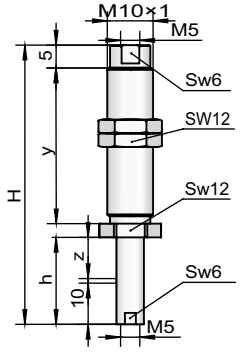


Model	Size (mm)				
	D	d	H	G	Z
MP3 04UM □	4.5	4	8	7	1.5
MP3 06UM □	6.5	6	8	7	1.5
MP3 08UM □	8.5	8	8	7	1.5

Note: □ represents the material of suction cup
GN - Static-proof nitrile rubber (anti-static index: 10^5–10^9)
GHN - Conductive traceless nitrile rubber (anti-static index: 10^5–10^9)

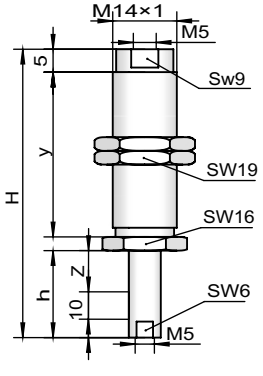
MP3-SM-CJXUO723

MP3 D1010 to 1015SM CJXU0723



Model	Size (mm)			
	H	h	y	Z
MP3 D1010SM-CJXU0723	50	14	28	10
MP3 D1015SM-CJXU0723	61	19	34	15

MP3 D1410 to 1420SM CJXU0723



Model	Size (mm)			
	H	h	y	Z
MP3 D1410SM-CJXU0723	50	14	28	10
MP3 D1415SM-CJXU0723	63	19	36	15
MP3 D1420SM-CJXU0723	72	24	40	20

Retractable buffer spring plunger

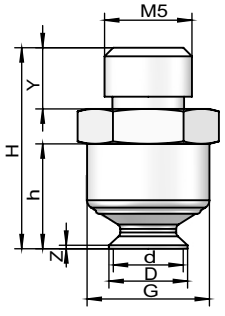
Spring plungers MP3-CJXU0723

AMILA

Design parameters of MP3-CJXUO723 buffer spring plunger

Suction cups appropriate to MP3-SM-CJXUO723

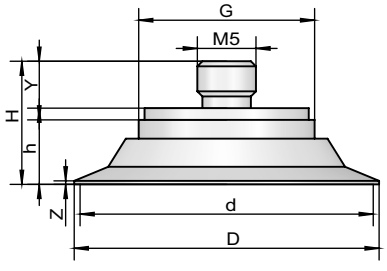
MP3 10 to 16UM □



Model	Size (mm)						
	D	d	H	h	Y	G	Z
MP3 10UM □ A5	11	10	15.5	10	3.5	9	1
MP3 13UM □ A5	14	13	15.5	10	3.5	9	1.2
MP3 16UM □ A5	17	16	15.5	10	3.5	9	1.2

Note: □represents the material of suction cup
GN - Static-proof nitrile rubber (anti-static index: 10^5–10^9)
GHN - Conductive traceless nitrile rubber (anti-static index: 10^5–10^9)

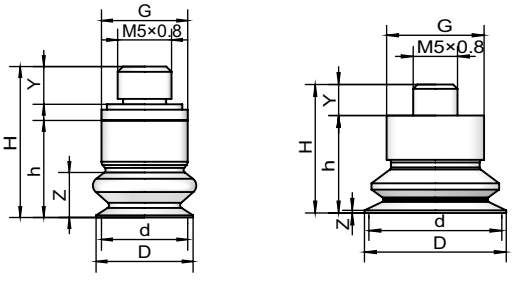
MP3 10 to 30MT □



Model	Size (mm)						
	D	d	H	h	Y	G	Z
MP2 10MT □ A5	11	10	10.5	5.5	4	8.5	0.2
MP2 15MT □ A5	16	15	10.5	5.5	4	8.5	0.2
MP2 20MT □ A5	21	20	10.5	5.5	4	13.5	0.3
MP2 25MT □ A5	26	25	10.5	5.5	4	15	0.3
MP2 30MT □ A5	31	35	10.5	5.5	4	18	0.3

Note: □represents the material of suction cup
GN - Static-proof nitrile rubber (anti-static index: 10^5–10^9)
GHN - Conductive traceless nitrile rubber (anti-static index: 10^5–10^9)

MP3 08MB □ MP3 10 MB □



Model	Size (mm)						
	D	d	H	h	Y	G	Z
MP2 08MB □ A5	9	8	14	9	3.5	8	4
MP2 10MB □ A5	11	10	13	9.5	3.5	11	3

Note: □represents the material of suction cup
GN - Static-proof nitrile rubber (anti-static index: 10^5–10^9)
GHN - Conductive traceless nitrile rubber (anti-static index: 10^5–10^9)

Retractable buffer spring plunger

Spring plungers MP5

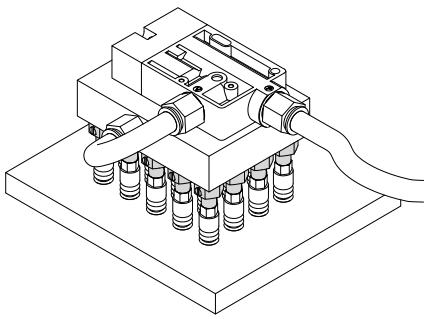
3C product



Introduction

- Handles the workpiece with surface height difference
- Owing to the retractable structure, no stick occurs due to uneven force borne.
- Can be simultaneously connected to the vacuum chamber without any tube
- All made of stainless steel that enables wider use and longer service life

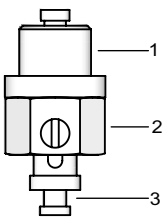
Application of MP5 buffer spring plunger



Application

- Suitable for the application in which several sets of suction cups are needed and the installation space is limited, e.g. gripping PCBs or LED panel lights

System design of MP5 buffer spring plunger



Structure

- (1) Connecting thread
- (2) Main body
- (3) Suction cup connecting end

Retractable buffer spring plunger

Spring plungers MP5

AMILA

MP5 buffer spring plunger purchase guide

MP5 M10 K 3 S

① ② ③ ④ ⑤

① Product series	② Connecting thread	③ Buffer type	④ Buffering stoke	⑤ Suction cup connecting mode
MP5	M10 - M10×1 M14 - M14×1	K - Non-slewing	3mm 5mm	S - Connector-equipped SM - Plunger end inside M4 nut tapping

Model specifications of MP5 buffer plunger

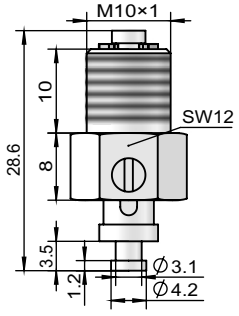
Model specification	Buffering stoke		Suction cup connecting mode	
	3mm	**5mm**	**S**(Connector-equipped)	**SM**(Connector-equipped)
MP5-M10	●	-	●	-
MP5-M14	-	●	-	●

Technical parameters of MP5 buffer spring plunger

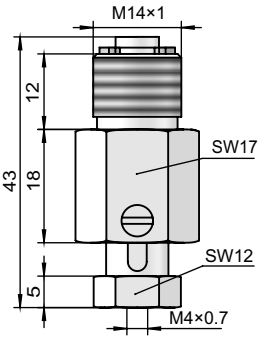
Model	Spring prestressing N	Elastic force N	Weight g
MP5-M10K3-S	0.7	1	16
MP5-M14K5-SM	8.5	12.5	52

Design parameters of MP5 buffer spring plunger

MP5-M10K3-S



MP5-M14K5-SM



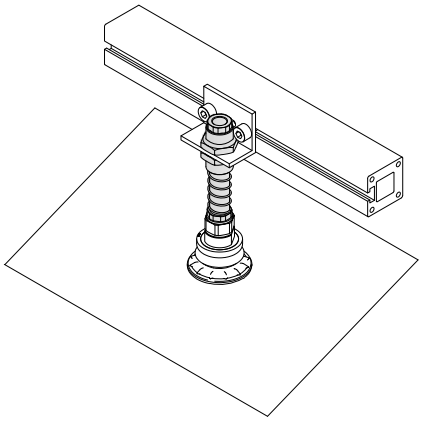
Spring plunger

MTE spring plunger

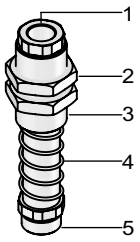
General-purpose



Application of MTE buffer spring plunger



System design of MTE buffer spring plunger



Introduction

- Guide sleeve lined with non-oiled well-wearing Guide sleeve
- Externally-loaded buffer spring
- Anti-rotating models available
- A plurality of stoke specifications available
- Less product wear, longer product service life, less noise
- Suitable for the operating condition with uneven surface and height difference compensation needed
- Suitable for various operating conditions

Application

- Applicable to handling workpieces with surface height difference
- Suitable for the operating condition in which vibration needs to be reduced when the handled object is contacted
- Suitable for short-cycle quick handling
- Anti-rotating buffer plunger
- Especially suitable for handling in the automotive industry

Structure

- (1) Generator connecting end
- (2) Mounting and fastening nut
- (3) Guide sleeve
- (4) Spring
- (5) Suction cup connecting end

Spring plunger
MTE spring plunger

AMILA

MTE buffer spring plunger purchase guide

MTE G1/8-AG - 15 - M16 - VG

① ② ③ ④ ⑤

① Product series	② Connecting thread of buffer plunger	③ Buffering stoke	④ Guide sleeve thread	⑤ Additional function
MTE	G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1/2-AG - G1/2 male thread G1/8- IG - G1/8 female thread G1/4- IG - G1/4 female thread G3/8- IG - G3/8 female thread G1/2- IG - G1/2 female thread	15mm 25mm 30mm 50mm 75mm 90mm	M16 M20 M22 M30	Null – Not anti-rotating VG - Anti-rotating

Note: AG male thread; IG female thread

Model specifications of MTE buffer spring plunger

Model specification	G1/8-AG	G1/8-IG	G1/4-AG	G1/4-IG	G3/8-AG	G3/8-IG	G1/2-AG	G1/2-IG
MTE □ -15-M16(-VG)	●	●	-	-	-	-	-	-
MTE □ -25-M16(-VG)	●	●	-	-	-	-	-	-
MTE □ -50-M16(-VG)	●	●	-	-	-	-	-	-
MTE □ -25-M20(-VG)	-	-	●	●	-	-	-	-
MTE □ -50-M20(-VG)	-	-	●	●	-	-	-	-
MTE □ -75-M20(-VG)	-	-	●	●	-	-	-	-
MTE □ -30-M22(-VG)	-	-	-	-	●	●	-	-
MTE □ -50-M22(-VG)	-	-	-	-	●	●	-	-
MTE □ -25-M30(-VG)	-	-	-	-	-	-	●	●
MTE □ -75-M30(-VG)	-	-	-	-	-	-	●	●
MTE □ -90-M30(-VG)	-	-	-	-	-	-	●	●

Note: AG male thread; IG female thread; VG (anti-rotating)

Technical parameters of MTE buffer spring plunger

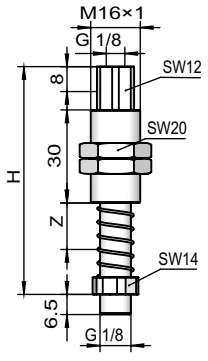
Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Horizontal load N	Weight g
MTE G1/8-□-15-M16(-VG)	0.221	3.53	5.19	3700	385	80
MTE G1/8-□-25-M16(-VG)	0.143	3.57	5.36	3700	283	90
MTE G1/8-□-50-M16(-VG)	0.097	2.92	5.34	3700	173	110
MTE G1/4-□-25-M20(-VG)	0.711	6.47	15.36	2400	747	145
MTE G1/4-□-50-M20(-VG)	0.452	1.40	12.70	2400	466	175
MTE G1/4-□-75-M20(-VG)	0.262	5.38	15.20	2400	340	190
MTE G3/8-□-30-M22(-VG)	0.985	7.72	28.8	2800	360	174
MTE G3/8-□-50-M22(-VG)	0.738	5.77	31.6	2800	360	194
MTE G1/2-□-25-M30(-VG)	3.829	25.64	73.50	4900	1870	400
MTE G1/2-□-75-M30(-VG)	1.072	37.20	77.40	4900	800	530
MTE G1/2-□-90-M30(-VG)	1.072	24.38	75.30	4900	730	544

Spring plunger

MTE spring plunger

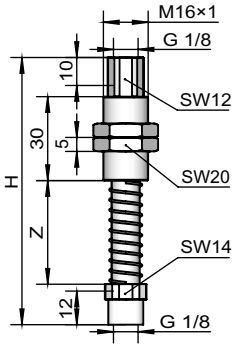
Design parameters of MTE buffer spring plunger

MTE G1/8-AG- □ M16(-VG)



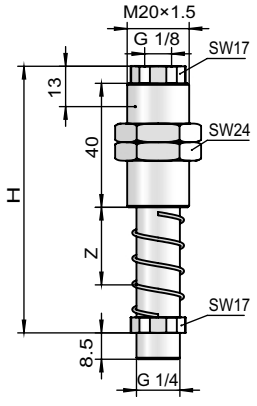
Model	Size (mm)	
	H	Z
MTE G1/8-AG-15-M16(-VG)	73.5	15
MTE G1/8-AG-25-M16(-VG)	86.5	25
MTE G1/8-AG-50-M16(-VG)	117.5	50

MTE G1/8-IG- □ -M16(-VG)



Model	Size (mm)	
	H	Z
MTE G1/8-IG-15-M16(-VG)	82.5	15
MTE G1/8-IG-25-M16(-VG)	95.5	25
MTE G1/8-IG-50-M16(-VG)	126.5	50

MTE G1/4-AG- □ M20(-VG)



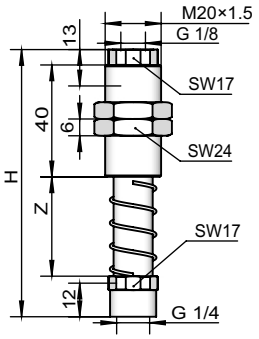
Model	Size (mm)	
	H	Z
MTE G1/4-AG-25-M20(-VG)	86	25
MTE G1/4-AG-50-M20(-VG)	115.5	50
MTE G1/4-AG-75-M20(-VG)	145	75

Spring plunger
MTE spring plunger

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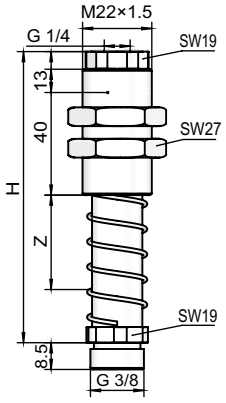
Design parameters of MTE buffer spring plunger

MTE G1/4-IG-□-M20(-VG)



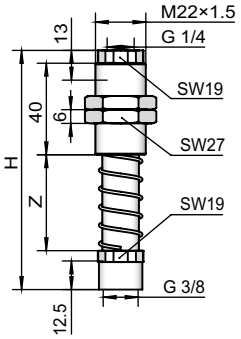
Model	Size (mm)	
	H	Z
MTE G1/4-IG-25-M20(-VG)	95	25
MTE G1/4-IG-50-M20(-VG)	124.5	50
MTE G1/4-IG-75-M20(-VG)	154	75

MTE G3/8-AG-□M22(-VG)



Model	Size (mm)	
	H	Z
MTE G3/8-AG-30-M22(-VG)	92.5	30
MTE G3/8-AG-50-M22(-VG)	112.5	50

MTE G3/8-IG-□-M22(-VG)



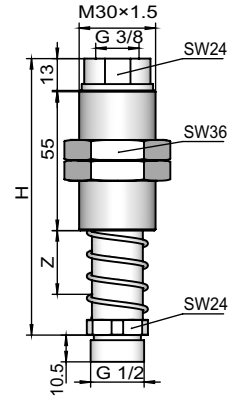
Model	Size (mm)	
	H	Z
MTE G3/8-IG-30-M22(-VG)	104.5	30
MTE G3/8-IG-50-M22(-VG)	124.5	50

Spring plunger

MTE spring plunger

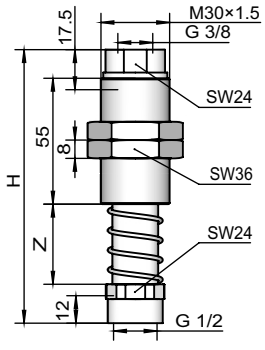
Design parameters of MTE buffer spring plunger

MTE G1/2-AG- ☐ M30(-VG)



Model	Size (mm)	
	H	**Z**
MTE G1/2-AG-25-M30(-VG)	105.5	25
MTE G1/2-AG-75-M30(-VG)	176.5	75
MTE G1/2-AG-90-M30(-VG)	188.5	90

MTE G1/2-IG- ☐ -M30(-VG)



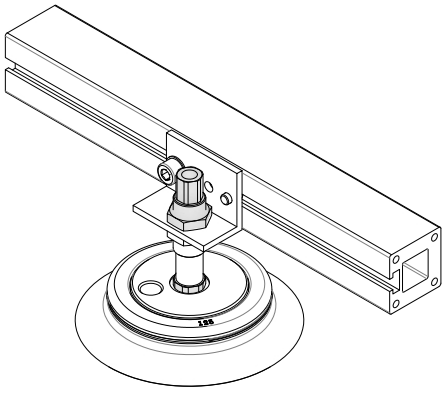
Model	Size (mm)	
	H	**Z**
MTE G1/2-IG-25-M30(-VG)	119.5	25
MTE G1/2-IG-75-M30(-VG)	190.5	75
MTE G1/2-IG-90-M30(-VG)	202.5	90

Spring plunger
MTI spring plunger

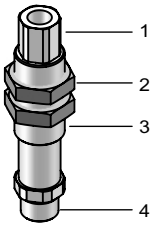
General-purpose



Application of MTI buffer spring plunger



System design of MTI buffer spring plunger



Introduction

- Internally-loaded buffer spring
- Economical and practical, maintenance-free
- Gentle contact with vulnerable workpieces; the spring protection structure can prevent dust entry and avoid damage caused by external force

Application

- Handles workpieces with surface height difference (such as metal sheets with curved surfaces)
- Handles workpieces sensitive to pressure (such as glass) and ensures gentle contact
- Especially suitable for handling in the automotive industry

Structure

- (1) Generator connecting end
- (2) Mounting and fastening nut
- (3) Guide sleeve
- (4) Suction cup connecting end

Spring plunger
MTI spring plunger

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MTI buffer spring plunger purchase guide

MTI G1/8-AG 20 M16

① ② ③ ④

① Product series	② Connecting thread of buffer plunger	③ Buffering stoke	④ Guide sleeve thread
MTI	G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread Note: AG male thread	20mm 30mm 50mm	M16 - M16×1 M18 - M18×1

Model specifications of MTI buffer spring plunger

Model specification	G1/8-AG	G1/4-AG	G3/8-AG
MTI G1/8-AG-20-M16	●	-	-
MTI G1/8-AG-30-M16	●	-	-
MTI G1/8-AG-50-M16	●	-	-
MTI G1/4-AG-20-M18	-	●	-
MTI G1/4-AG-30-M18	-	●	-
MTI G1/4-AG-50-M18	-	●	-
MTI G3/8-AG-20-M18	-	-	●
MTI G3/8-AG-30-M18	-	-	●
MTI G3/8-AG-50-M18	-	-	●

Technical parameters of MTI buffer spring plunger

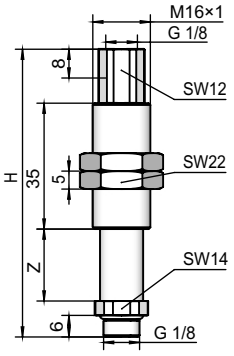
Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Horizontal load N	Weight g
MTI G1/8-AG-20-M16	0.11	2.2	4.5	1000	700	60
MTI G1/8-AG-30-M16	0.11	2.3	3.8	1000	700	70
MTI G1/8-AG-50-M16	0.11	2.1	3.6	1000	700	90
MTI G1/4-AG-20-M18	0.26	5.2	6.8	1000	700	120
MTI G1/4-AG-30-M18	0.26	4.3	5.5	1000	700	135
MTI G1/4-AG-50-M18	0.26	3.1	4.3	1000	700	170
MTI G3/8-AG-20-M18	0.26	5.2	6.8	1000	700	130
MTI G3/8-AG-30-M18	0.26	4.3	5.5	1000	700	145
MTI G3/8-AG-50-M18	0.26	3.1	4.3	1000	700	180

Spring plunger
MTI spring plunger

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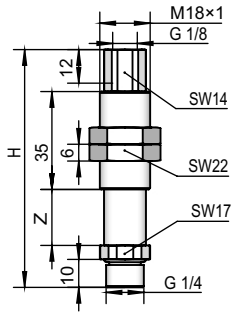
Design parameters of MTI buffer spring plunger

MTI G1/8-AG-□-M16



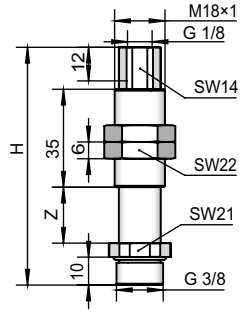
Model	Size (mm)	
	H	Z
MTI G1/8-AG-20-M16	80	20
MTI G1/8-AG-30-M16	100	30
MTI G1/8-AG-50-M16	140	50

MTI G1/4-AG-□-M18



Model	Size (mm)	
	H	Z
MTI G1/4-AG-20-M18	85	20
MTI G1/4-AG-30-M18	105	30
MTI G1/4-AG-50-M18	145	50

MTI G3/8-AG-□-M18



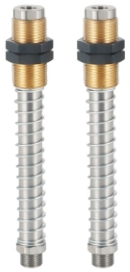
Model	Size (mm)	
	H	Z
MTI G3/8-AG-20-M18	85	20
MTI G3/8-AG-30-M18	105	30
MTI G3/8-AG-50-M18	145	50

Heavy-duty buffer spring plunger

MTE-HD spring plunger

General -purpose

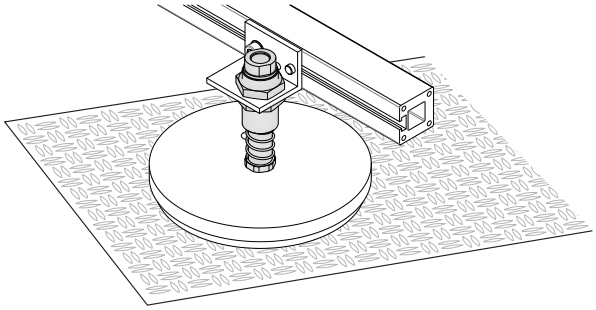
Heavy-duty



Introduction

- Buffer spring plunger with quality sliding bearing
- A plurality of connecting thread and buffering stoke specifications
- Anti-rotating models available
- Long life, maintenance-free, suitable for short-cycle applications
- Shock and vibration absorbed gentle contact with vulnerable workpieces
- Applicable to all suction cups of standard sizes and wide use

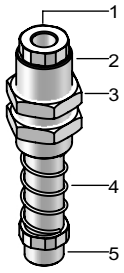
Application of MTE-HD buffer spring plunger



Application

- Handles workpieces with surface height difference (such as metal sheets with curved surfaces)
- Handles workpieces sensitive to pressure (such as glass) and ensures gentle contact
- Applicable to harsh operating conditions

System design of MTE-HD buffer spring plunger



Structure

- (1) Generator connecting end
- (2) Guide sleeve
- (3) Mounting and fastening nut
- (4) Spring
- (5) Suction cup connecting end

Heavy-duty buffer spring plunger

MTE-HD spring plunger

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MTE-HD buffer spring plunger purchase guide

MTE-HD G1/8-AG 15 - VG

① ② ③ ④

① Product series	② Connecting thread of buffer plunger	③ Buffering stoke	④ Bushing thread
MTE-HD	G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1/2-AG - G1/2 male thread Note: AG male thread	15mm 25mm 50mm 75mm 90mm	Null – Not anti-rotating VG - Anti-rotating

Model specifications of MTE-HD buffer spring plunger

Model specification	G1/8-AG	G1/4-AG	G3/8-AG	G1/2-AG
MTE-HD □ 15(-VG)	●	-	-	-
MTE-HD □ 25(-VG)	●	●	●	●
MTE-HD □ 50(-VG)	●	●	-	-
MTE-HD □ 75(-VG)	-	●	●	●
MTE-HD □ 90(-VG)	-	●	●	●

Note: HD heavy-duty; VG anti-rotating

Heavy-duty buffer spring plunger

MTE-HD spring plunger

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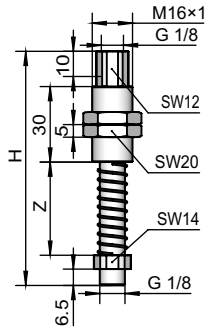
Technical parameters of MTE-HD buffer spring plunger

Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Horizontal load N	Weight g
MTE-HD G1/8-AG 15(-VG)	0.221	3.53	5.19	3700	385	80
MTE-HD G1/8-AG 25(-VG)	0.143	3.57	5.36	3700	283	90
MTE-HD G1/8-AG 50(-VG)	0.097	2.92	5.34	3700	173	110
MTE-HD G1/4-AG 25(-VG)	0.711	6.47	15.36	2400	747	145
MTE-HD G1/4-AG 50(-VG)	0.452	1.40	12.70	2400	466	175
MTE-HD G1/4-AG 75(-VG)	0.262	5.38	15.20	2400	340	190
MTE-HD G1/4-AG 90(-VG)	0.262	1.49	13.28	1500	300	210
MTE-HD G3/8-AG 25(-VG)	3.829	25.64	73.50	4800	1870	400
MTE-HD G3/8-AG 75(-VG)	1.072	37.20	77.40	4800	800	530
MTE-HD G3/8-AG 90(-VG)	1.072	24.38	75.30	4800	730	545
MTE-HD G1/2-AG 25(-VG)	3.829	25.64	73.50	4900	1870	400
MTE-HD G1/2-AG 75(-VG)	1.072	37.20	77.40	4900	800	530
MTE-HD G1/2-AG 90(-VG)	1.072	24.38	75.30	4900	730	545

Note: HD heavy-duty; AG male thread; VG anti-rotating

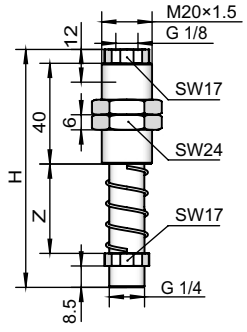
Design parameters of MTE-HD buffer spring plunger

MTE-HD G1/8-AG □ (-VG)



Model	Size (mm)	
	H	**Z**
MTE-HD G1/8-AG 15(-VG)	79	15
MTE-HD G1/8-AG 25(-VG)	92	25
MTE-HD G1/8-AG 50(-VG)	123	50

MTE-HD G1/4-AG □ (-VG)



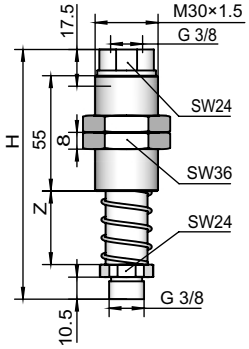
Model	Size (mm)	
	H	**Z**
MTE-HD G1/4-AG 25(-VG)	94.5	25
MTE-HD G1/4-AG 50(-VG)	124	50
MTE-HD G1/4-AG 75(-VG)	154	75
MTE-HD G1/4-AG 90(-VG)	168.5	90

Heavy-duty buffer spring plunger

MTE-HD spring plunger

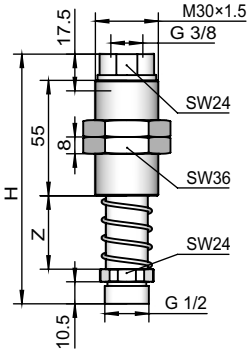
Design parameters of MTE-HD buffer spring plunger

MTE-HD G3/8-AG ☐ (-VG)



Model	Size (mm)	
	H	Z
MTE-HD G3/8-AG 25(-VG)	116.5	25
MTE-HD G3/8-AG 75(-VG)	187.5	75
MTE-HD G3/8-AG 90(-VG)	199.5	90

MTE-HD G1/2-AG ☐ (-VG)



Model	Size (mm)	
	H	Z
MTE-HD G1/2-AG 25(-VG)	116	25
MTE-HD G1/2-AG 75(-VG)	187	75
MTE-HD G1/2-AG 90(-VG)	199	90

Spring plunger
MTA spring plunger

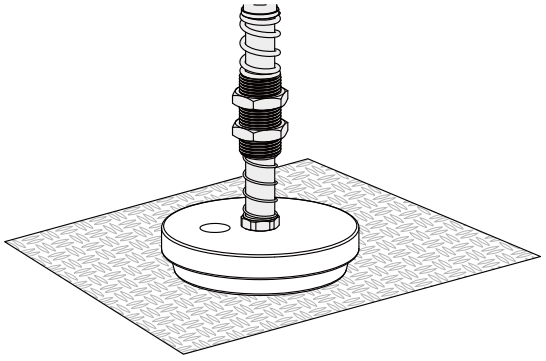
General-purpose



Introduction

- Shaft sleeve lined with non-oiled well-wearing Guide sleeve
- Equipped with upper and lower buffer springs
- Anti-rotating models available
- A plurality of stoke specifications available
- Less product wear, longer product service life, less noise
- Shock and vibration absorbed gentle contact with vulnerable workpieces, suitable for operating condition with height compensation needed
- Suitable for various operating conditions

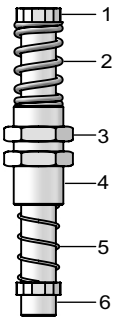
Application of MTA buffer spring plunger



Application

- Applicable to handling heavy workpieces such as steel plates
- Suitable for the operating condition with vibration reduction and gentle contact needed during handling, e.g. glass
- Applicable to harsh environments
- Anti-rotating buffer plunger
- Double buffer springs to prevent shock on the plunger end when the workpiece is turned over

System design of MTA buffer spring plunger



Structure

- (1) Generator connecting end
- (2) Spring
- (3) Mounting and fastening nut
- (4) Guide sleeve
- (5) Spring
- (6) Suction cup connecting end

MTA buffer spring plunger purchase guide

MTA G1/4-AG - 25 - M20 - VG
① ② ③ ④ ⑤

① Product series	②Connecting thread of buffer plunger	③ Buffering stoke	④ Guide sleeve thread	⑤ Bushing thread
MTA	G1/4-AG - G1/4 male thread G1/2-AG - G1/2 male thread	25mm 50mm 90mm	M20 M30	Null – Not anti-rotating VG - Anti-rotating

Note: AG male thread

Model specifications of MTA buffer spring plunger

Model specification	G1/4-AG	G1/2-AG
MTA □-25-M20(-VG)	●	-
MTA □-50-M20(-VG)	●	-
MTA □-25-M30(-VG)	-	●
MTA □-50-M30(-VG)	-	●
MTA □-90-M30(-VG)	-	●

Note: VG anti-rotating

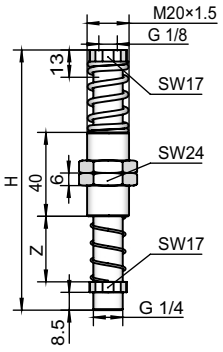
Technical parameters of MTA buffer spring plunger

Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Horizontal load N	Weight g
MTA G1/4-AG-25-M20(-VG)	0.711	8.95	17.8	2400	800	185
MTA G1/4-AG-50-M20(-VG)	0.262	14.10	20.6	2400	490	210
MTA G1/2-AG-25-M30(-VG)	3.828	25.65	73.5	4900	1870	493
MTA G1/2-AG-50-M30(-VG)	1.810	3.95	49.2	4900	1200	539
MTA G1/2-AG-90-M30(-VG)	1.072	24.38	75.3	4900	730	645

Spring plunger
MTA spring plunger

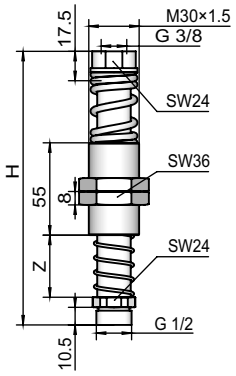
Design parameters of MTA buffer spring plunger

MTA G1/4-AG □ -M20(-VG)



Model	Size (mm)	
	H	**Z**
MTA G1/4-AG-25-M20(-VG)	123	25
MTA G1/4-AG-50-M20(-VG)	152.5	50

MTA G1/2-AG □ -M30(-VG)



Model	Size (mm)	
	H	**Z**
MTA G1/2-AG-25-M30(-VG)	157	25
MTA G1/2-AG-50-M30(-VG)	187	50
MTA G1/2-AG-90-M30(-VG)	240	90

Heavy-duty buffer spring plunger

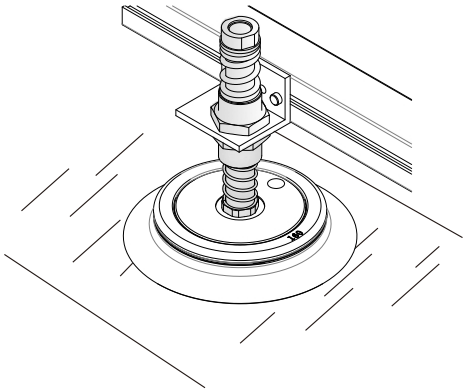
MTA-HD spring plunger

General -purpose

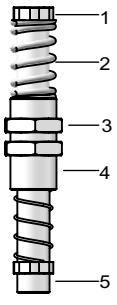
Heavy-duty



Application of MTA-HD buffer spring plunger



System design of MTA-HD buffer spring plunger



Introduction

- Buffer spring plunger with quality sliding bearing
- Plunger equipped with upper and lower buffer springs
- A plurality of connecting thread and buffering stoke specifications
- Anti-rotating models available
- Long life, maintenance-free, suitable for short-cycle applications
- Shock and vibration absorbed gentle contact with vulnerable workpieces without too long stoke
- Applicable to all suction cups of standard sizes and wide use

Application

- Equipped with upper and lower buffer springs, handles workpieces with surface height difference (such as metal sheets with curved surfaces)
- Handles workpieces sensitive to pressure (such as glass) and ensures gentle contact
- Applicable to harsh operating conditions
- Suitable for short-cycle quick handling

Structure

- (1) Generator connecting end
- (2) Spring
- (3) Mounting and fastening nut
- (4) Guide sleeve
- (5) Suction cup connecting end

Heavy-duty buffer spring plunger
MTA-HD spring plunger

AMILA

MTA-HD buffer spring plunger purchase guide

MTA-HD G1/4-AG 25 - VG

① ② ③ ④

① Product series	②Connecting thread of buffer plunger	③ Buffering stoke	④ Bushing thread
MTA-HD	G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1/2-AG - G1/2 male thread Note: AG male thread	25mm 50mm 90mm	Null – Not anti-rotating VG - Anti-rotating

Model specifications of MTA-HD buffer spring plunger

Model specification	G1/4-AG	G3/8-AG	G1/2-AG
MTA-HD □ 25(-VG)	●	●	●
MTA-HD □ 50(-VG)	●	●	●
MTA-HD □ 90(-VG)	-	●	●

Note: VG anti-rotating

Technical parameters of MTA-HD buffer spring plunger

Model	Spring rate N/mm	Spring prestressing	Elastic force N	Vertical load N	Horizontal load N	Weight g
MTA-HD G1/4-AG 25(-VG)	0.711	8.95	17.8	2400	800	185
MTA-HD G1/4-AG 50(-VG)	0.262	14.10	20.6	2400	490	210
MTA-HD G3/8-AG 25(-VG)	3.828	25.65	73.5	4800	1870	495
MTA-HD G3/8-AG 50(-VG)	1.810	3.95	49.2	4800	1200	540
MTA-HD G3/8-AG 90(-VG)	1.072	24.38	75.3	4800	730	645
MTA-HD G1/2-AG 25(-VG)	3.828	25.65	73.5	4900	1870	495
MTA-HD G1/2-AG 50(-VG)	1.810	3.95	49.2	4900	1200	540
MTA-HD G1/2-AG 90(-VG)	1.072	24.38	75.3	4900	730	645

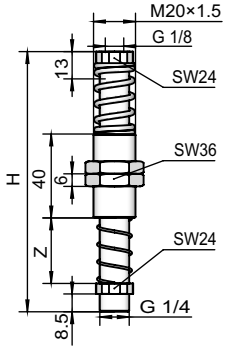
Heavy-duty buffer spring plunger

MTA-HD spring plunger

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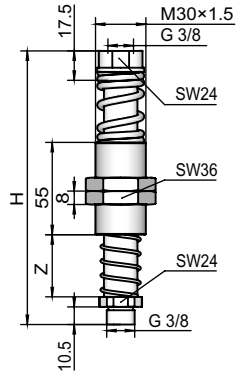
Design parameters of MTA buffer spring plunger

MTA-HD G1/4-AG □ (-VG)



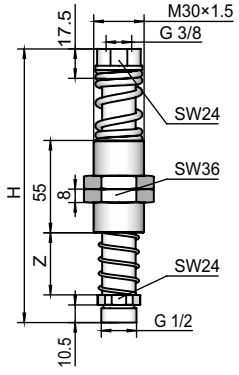
Model	Size (mm)	
	H	Z
MTA-HD G1/4-AG 25(-VG)	123	25
MTA-HD G1/4-AG 50(-VG)	152.5	50

MTA-HD G3/8-AG □ (-VG)



Model	Size (mm)	
	H	Z
MTA-HD G3/8-AG 25(-VG)	157	25
MTA-HD G3/8-AG 50(-VG)	187	50
MTA-HD G3/8-AG 90(-VG)	240	90

MTA-HD G1/2-AG □ (-VG)



Model	Size (mm)	
	H	Z
MTA-HD G1/2-AG 25(-VG)	157	25
MTA-HD G1/2-AG 50(-VG)	187	50
MTA-HD G1/2-AG 90(-VG)	240	90

Spring plunger

MTAL spring plunger

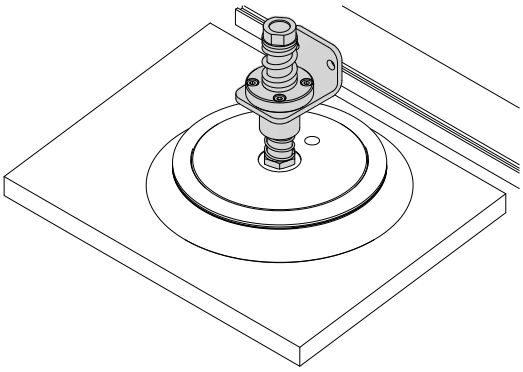
General-purpose



Introduction

- The spring loaded plunger uses a high quality sliding bearing a machined plunger rod
- Different lifting height
- Gently placed on a sensitive workpiece so as to absorb impact and vibration and prevent over-stoke
- Suitable for a full range of applications and uneven workpieces
- Simple structure, low production cost, high strength

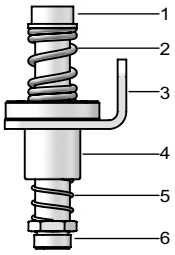
Application of MTAL buffer spring plunger



Application

- Equipped with upper and lower buffer springs, handles workpieces with surface height difference (e.g. woodworking industry)
- Used in conjunction with a foam gripper

System design of MTAL buffer spring plunger



Structure

- (1) Generator connecting end
- (2) Spring
- (3) Mounting bracket
- (4) Guide sleeve
- (5) Spring
- (6) Suction cup connecting end

Spring plunger
MTAL spring plunger

AMILA

MTAL buffer spring plunger purchase guide

MTAL 25 G1/2-AG

① ② ③

① Product series	② Buffering stoke	③ Connecting thread of buffer plunger
MTAL	25mm	G1/2-AG – G1/2 male thread
	50mm	
	75mm	Note: AG male thread

Model specifications of MTAL buffer spring plunger

Model specification	G1/2-AG
MTAL 25 G1/2-AG	●
MTAL 50 G1/2-AG	●
MTAL 75 G1/2-AG	●

Note: AG male thread

Model specifications of MTAL buffer spring plunger fittings

Fitting Name	Model Specification	Appropriate foam gripper
Mounting plate	FLAN-PL 65 × 60 × 15-E	ATE ATF
	FLAN-PL 120 × 85 × 15-C	ATC ATD
	FLAN-PL 75 × 70 × 15-S	ATS ATK

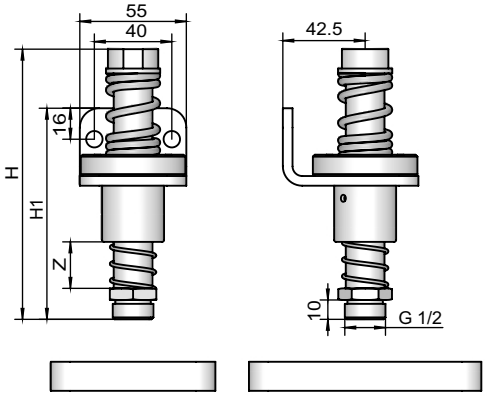
Technical parameters of MTAL buffer spring plunger

Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Weight g
MTAL 25 G1/2-AG	3.828	25.6	73.5	3000	730
MTAL 50 G1/2-AG	1.810	32.7	111.5	3000	780
MTAL 75 G1/2-AG	1.072	36.9	77.1	3000	830

Spring plunger
MTAL spring plunger

Design parameters of MTAL buffer spring plunger

MTAL □ G1/2-AG



Model	Size (mm)		
	H	**H1**	**Z**
MTAL 25 G1/2-AG	139.5	110	25
MTAL 50 G1/2-AG	169.5	140	50
MTAL 75 G1/2-AG	207.5	178	75

Suspension flexible spring plunger

MTE-FLEX spring plunger

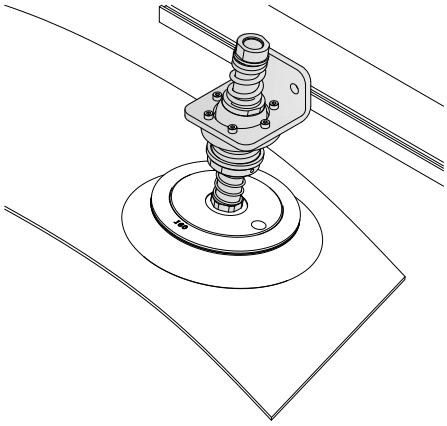
General-purpose



Introduction

- Plunger with centering spring and universal ball joint
- Gently placed on a sensitive workpiece so as to absorb impact and vibration and prevent over-stoke
- Enables maximum flexibility of extremely uneven workpiece layers
- Suitable for application scenarios under harsh operating conditions
- Suitable for short-cycle fast-paced handling sites

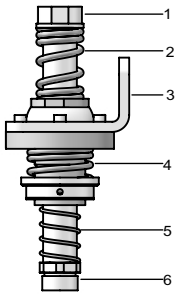
Application of MTE-FLEX buffer spring plunger



Application

- Flexible spherical buffer plunger with upper and lower reinforced springs, as well as a centering spring and a universal ball joint designed to compensate for each other
- Handles workpieces with height difference
- Enables the gentle handling of a vulnerable workpiece (such as glass) without any additional parts and ensures a smooth and safe release of the workpiece
- Suitable for handling deformed, bent and naturally growing materials (such as dry wood, etc.) without any other auxiliary installation parts

System design of MTE-FLEXL buffer spring plunger



Structure

- (1) Generator connecting end
- (2) Spring
- (3) Mounting bracket
- (4) Spring
- (5) Spring
- (6) Suction cup connecting end

Suspension flexible spring plunger

MTE-FLEX spring plunger

AMILA

MTE-FLEX buffer spring plunger purchase guide

MTE-FLEX 25 HD1 G1/2-AG G3/8-IG

① ② ③ ④ ⑤

① Product series	② Buffering stoke	③ Type	④ Connecting thread of buffer plunger	⑤ Vacuum connecting thread
MTE-FLEX	25mm 50mm 75mm	HD1 HD2	G1/2-AG - G1/2 male thread Note: AG male thread	G3/8-IG Note: IG female thread

Model specifications of MTE-FLEX buffer spring plunger

Model specification	HD1	HD2
MTE-FLEX 25 □G1/2-AG G3/8-IG	●	●
MTE-FLEX 50 □G1/2-AG G3/8-IG	●	●
MTE-FLEX 75 □G1/2-AG G3/8-IG	●	●

Note: AG male thread; IG female thread

Model specifications of MTE-FLEX buffer spring plunger fittings

Fitting Name	Model Specification	Appropriate foam gripper
Mounting plate	FLAN-PL 65 × 60 × 15-E	ATE ATF
	FLAN-PL 120 × 85 × 15-C	ATC ATD
	FLAN-PL 75 × 70 × 15-S	ATS ATK

Technical parameters of MTE-FLEX buffer spring plunger

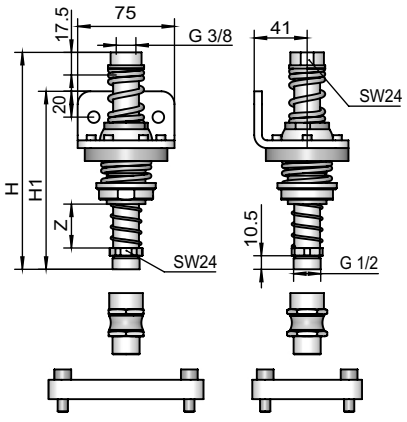
Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Weight g
MTE-FLEX 25 HD1 G1/2-AG G3/8-IG	3.828	25.6	73.5	3000	1450
MTE-FLEX 50 HD1 G1/2-AG G3/8-IG	1.810	32.7	111.5	3000	1500
MTE-FLEX 75 HD1 G1/2-AG G3/8-IG	1.072	36.9	77.1	3000	1550
MTE-FLEX 25 HD2 G1/2-AG G3/8-IG	3.828	51.3	147.0	6000	2700
MTE-FLEX 50 HD2 G1/2-AG G3/8-IG	1.810	65.4	223	6000	2800
MTE-FLEX 75 HD2 G1/2-AG G3/8-IG	1.072	73.9	154.3	6000	2900

Suspension flexible spring plunger

MTE-FLEX spring plunger

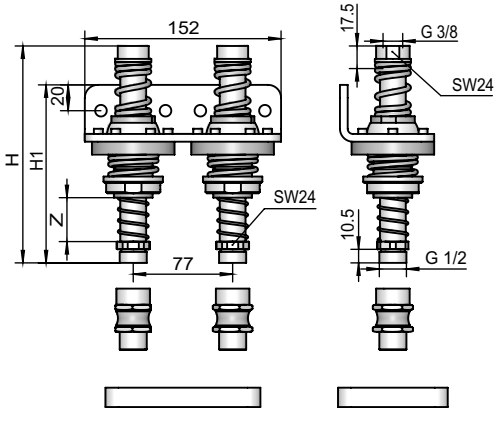
Design parameters of MTE-FLEX buffer spring plunger

MTE-FLEX □ HD1 G1/2-AG G3/8-IG



Model	Size (mm)		
	H	H1	Z
MTE-FLEX 25 HD1 G1/2-AG G3/8-IG	167.6	129	25
MTE-FLEX 50 HD1 G1/2-AG G3/8-IG	199.8	161	50
MTE-FLEX 75 HD1 G1/2-AG G3/8-IG	238.6	200	75

MTE-FLEX □ HD2 G1/2-AG G3/8-IG



Model	Size (mm)		
	H	H1	Z
MTE-FLEX 25 HD2 G1/2-AG G3/8-IG	167.6	129	25
MTE-FLEX 50 HD2 G1/2-AG G3/8-IG	199.8	161	50
MTE-FLEX 75 HD2 G1/2-AG G3/8-IG	238.6	200	75

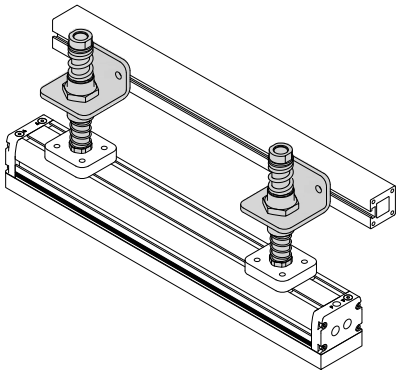
Spring Plunger

Spring Plunger MTE-STARR

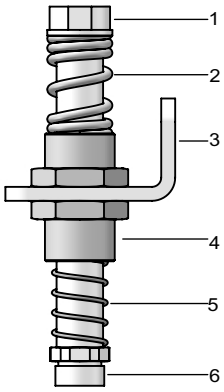
General-purpose



Application of Spring Plunger MTE-STARR



System Designof Spring Plunger MTE-STARR



Introduction

- With 2-way buffer springs and special sliding bearings and suitable for handling a workpiece (such as curved steel plate or wood material) of non-uniform height
- Enables the gentle handling of a vulnerable workpiece (such as glass) without any additional parts and ensures a smooth and safe release of the workpiece
- The spring loaded plunger uses a high quality sliding bearing and a machined plunger rod
- Different lifting height
- Gently placed on a sensitive workpiece so as to absorb impact and vibration and prevent over-stoke

Application

- Suitable for handling deformed, bent and naturally growing materials (such as dry wood, etc.) without any other auxiliary installation parts
- Suitable for application scenarios under harsh operating conditions
- Suitable for short-cycle fast-paced handling sites
- Suitable for a full range of applications and uneven workpieces

Structure

- (1)Generator connecting end
- (2)Spring
- (3)Mounting bracket
- (4)Guide sleeve
- (5)Spring
- (6)Suction-cup connecting end

Spring Plunger

Spring Plunger MTE-STARR

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MTE-STARR buffer spring plunger purchase guide

MTE-STARR 25 HD1 G1/2-AG G3/8-IG

① ② ③ ④ ⑤

① Product series	② Buffering stoke	③ Type	④ Connecting thread of buffer plunger	⑤ Vacuum connecting thread
MTE-STARR	25mm 50mm 75mm	HD1 HD2	G1/2-AG - G1/2 male thread Note: AG male thread	G3/8-IG Note: IG female thread

Model specifications of MTE-STARR buffer spring plunger

Model specification	HD1	HD2
MTE-STARR 25 □ G1/2-AG G3/8-IG	●	●
MTE-STARR 50 □ G1/2-AG G3/8-IG	●	●
MTE-STARR 75 □ G1/2-AG G3/8-IG	●	●

Note: AG male thread; IG female thread

Technical parameters of MTE-STARR buffer spring plunger

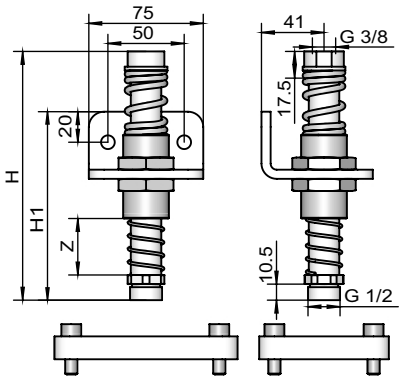
Model	Spring rate N/mm	Spring prestressing N	Elastic force N	Vertical load N	Weight g
MTE-STARR 25 HD2 G1/2-AG G3/8-IG	3.828	51.3	147.0	6000	2300
MTE-STARR 50 HD2 G1/2-AG G3/8-IG	1.810	65.4	223.0	6000	2400
MTE-STARR 75 HD2 G1/2-AG G3/8-IG	1.072	73.9	154.3	6000	2500
MTE-STARR 25 HD1 G1/2-AG G3/8-IG	3.828	25.6	73.5	3000	1200
MTE-STARR 50 HD1 G1/2-AG G3/8-IG	1.810	32.7	111.5	3000	1250
MTE-STARR 75 HD1 G1/2-AG G3/8-IG	1.072	36.9	77.1	3000	1300

Spring Plunger

Spring Plunger MTE-STARR

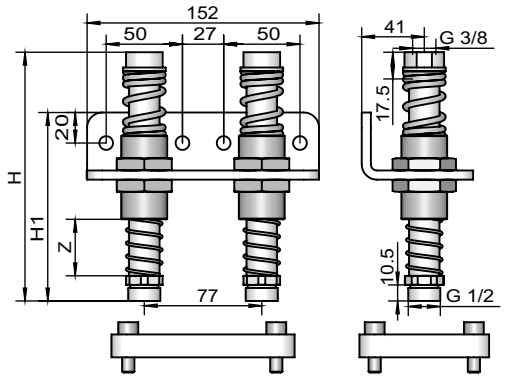
Design parameters of MTE-STARR buffer spring plunger

MTE-STARR □ HD1 G1/2-AG G3/8-IG



Model	Size (mm)		
	H	H1	Z
MTE-STARR 25 HD1 G1/2-AG G3/8-IG	167.6	129	25
MTE-STARR 50 HD1 G1/2-AG G3/8-IG	199.8	161	50
MTE-STARR 75 HD1 G1/2-AG G3/8-IG	238.6	200	75

MTE-STARR □ HD2 G1/2-AG G3/8-IG



Model	Size (mm)		
	H	H1	Z
MTE-STARR 25 HD2 G1/2-AG G3/8-IG	167.6	129	25
MTE-STARR 50 HD2 G1/2-AG G3/8-IG	199.8	161	50
MTE-STARR 75 HD2 G1/2-AG G3/8-IG	238.6	200	75

Adapter for elbow connector

MNW adapter for elbow connector

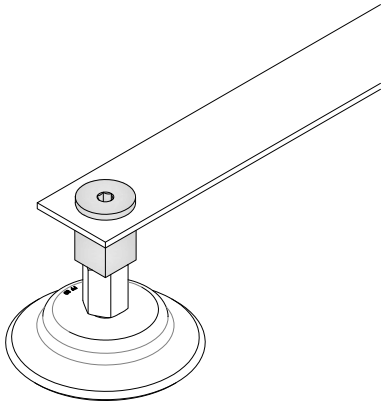
General-purpose



Introduction

- Minimized overall height; the gripper can be directly mounted to the beam so that the needed volume can be reduced as much as possible
- Laterally connected to the vacuum loop without additional vertical space needed
- Widely used M5 to G1/2 connecting thread applicable to almost all grippers of standard specifications
- Can be connected to a buffer spring plunger or directly mounted to the mounting bracket or metal plate with the top mounting element; can be used flexibly to meet all requirements

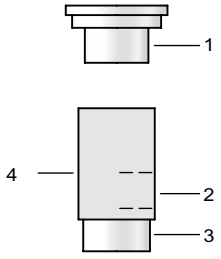
Application of MNW adapter for elbow connector



Application

- Suitable for operating condition with limited installation space
- The MNW adapter for elbow connector can be connected to other fittings such as buffer spring plunger or VRS-AN top mounting element so as to be mounted to the standard bracket or mounting plate

System design of MNW adapter for elbow connector



Structure

- (1) Top mounting element
- (2) Vacuum connect port
- (3) Suction cup connecting end
- (4) Main body of the adapter for elbow connector

Adapter for elbow connector
MNW adapter for elbow connector

AMILA

MNW adapter for elbow connector purchase guide

MNW M5-IG M5-IG
① ② ③

① Product series	② Vacuum connecting thread	③ Gripper connecting thread
MNW	M5-IG - M5 female thread G1/8-IG - G1/8 female thread G3/8-IG - G3/8 female thread Note: IG female thread	M5-IG - M5 female thread G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1/2-AG - G1/2 male thread Note: AG male thread

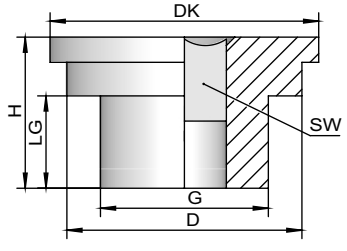
Model specifications of MNW adapter for elbow connector

Model specification	M5-IG	G1/8-AG	G1/4-AG	G3/8-AG	G1/2-AG
MNW M5-IG□	●	-	-	-	-
MNW G1/8-IG□	-	●	-	-	-
MNW G1/8-IG □	-	-	●	-	-
MNW G3/8-IG□	-	-	-	●	-
MNW G3/8-IG□	-	-	-	-	●

Note: AG male thread; IG female thread

Design parameters of optional element VRS-AN

VRS-AN □



VRS-AN structure parameters

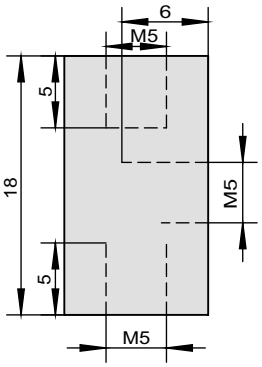
Model	Size (mm)					
	D	DK	H	SW	LG	G
VRS-AN M5-AG	10	14	9.5	3	5.5	M5-AG
VRS-AN G1/8-AG	16	20	11	5	7	G1/8-AG
VRS-AN G1/4-AG	20	25	16	6	10	G1/4-AG
VRS-AN G1/2-AG	28	32	18	10	11	G1/2-AG

Adapter for elbow connector
MNW adapter for elbow connector

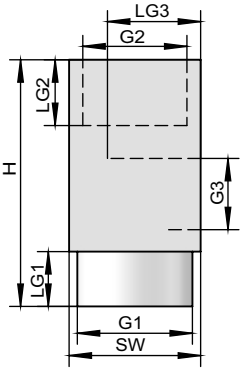
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Design parameters of MNW adapter for elbow connector

MNW M5-IG M5-IG



MNW G1/8 -IG G1/8-AG to G3/8-IG G1/2-AG



Model	Size (mm)							
	H	SW	LG1	LG2	LG3	G1	G2	G3
MNW G1/8-IG G1/8-AG	21	16	9.5	7	6	G1/8-AG	G1/8-IG	G1/8-IG
MNW G1/8-IG G1/4-AG	26	18	11	10	10	G1/4-AG	G1/4-IG	G1/8-IG
MNW G3/8-IG G3/8-AG	35	24	13	10	12	G3/8-AG	G1/2-IG	G3/8-IG
MNW G3/8-IG G1/2-AG	35	24	13	10	12	G1/2-AG	G1/2-IG	G3/8-IG

Bulkhead connector

MVS-GE bulkhead connector

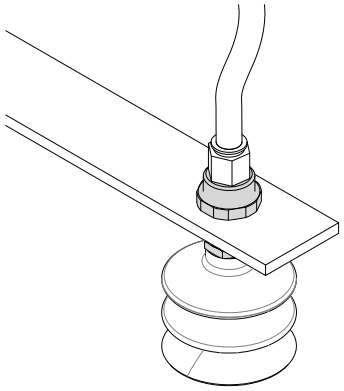
General-purpose



Introduction

- G1/8-IG and G1/4-IG connecting thread
- With male thread on the outer circumference and fixing nuts made of stainless steel
- Can be connected to hose with a plug-in joint
- Gripper position can be adjusted without other mounting elements
- Stainless and durable, applicable to hoses with various diameters

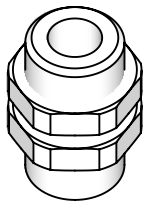
Application of MVS-GE bulkhead connector



Application

- Used to fix a gripper to a metal plate

System design of MVS-GE bulkhead connector



Structure

- Made of stainless steel, and with male thread and female thread
- 2 fixing nuts equipped
- Nuts on the male thread can be fastened with a wrench

Bulkhead connector
MVS-GE bulkhead connector

AMILA

MVS-GE bulkhead connector purchase guide

MVS-GE M16×1-AG G1/8-IG 30

① ② ③ ④

① Product series	② Installation thread	③ Vacuum connecting thread	④ Mounting length
MVS-GE	M16×1-AG - M16×1 male thread M20×1.5-AG - M20×1.5 male thread Note: AG male thread	G1/8-IG - G1/8 female thread G1/4-IG - G1/4 female thread Note: IG female thread	30mm

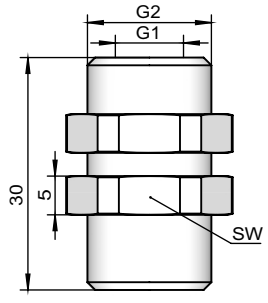
Model specifications of MVS-GE bulkhead connector

Model specification	M16×1-AG	M20×1.5-AG
MVS-GE □ G1/8-IG 30	●	-
MVS-GE □ G1/4-IG 30	-	●

Note: AG male thread; IG female thread

Design parameters of MVS-GE bulkhead connector

MVS-GE...



Model	Size (mm)		
	SW	**G1**	**G2**
MVS-GE M16×1-AG G1/8-IG 30	22	G1/8-IG	M16×1-AG
MVS-GE M20×1.5-AG G1/4-IG 30	24	G1/4-IG	M20×1.5-AG

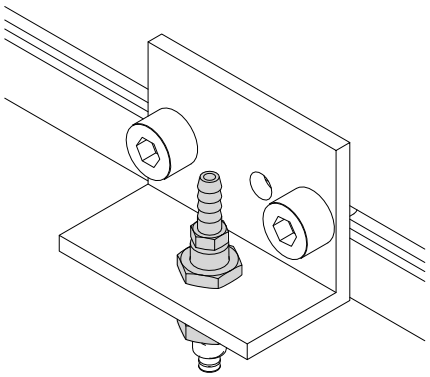
Universal suction cup mounting fittings —fixing connectors

PJF universal fixing connector

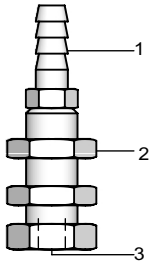
General-purpose



Application of PJF universal fixing connector



System design of PJF universal fixing connector



Introduction

- Fits gripper connection specifications to facilitate a plurality of connections and free selection of installation specifications
- Small size and simple joint, especially suitable for the electronic industry

Application

- Connects vacuum gripper and mounting frame

Structure

- (1) Air tube joint
- (2) Fastening nut
- (3) Gripper connecting port

Universal suction cup mounting fittings —fixing connectors

PJF universal fixing connector

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PJF universal fixing connector purchase guide

PJF - LB6 - M6IG -M5IG

① ② ③ ④

① Product series	②Vacuum port connecting mode	③ Installation specification	④ Gripper connection specification
PJF	LB6 - Horizontal direction, Φ6 pagoda joint B6 – Vertical direction, Φ6 pagoda joint R1 – Vertical direction, RC1/8 female taper thread LR1 – Horizontal direction, RC1/8 female taper thread	M4IG - M4×0.7 female thread M6IG - M6×1 female thread M8IG - M8×1.25 female thread M10IG - M10×1.5 female thread M8AG - M8×1 male thread M10AG - M10×1 male thread M14AG - M14×1 male thread M16AG - M16×1.5 male thread	M5IG - M5×0.8 female thread M8IG - M8×1.25 female thread G1/8IG - G1/8 female thread G1/4IG - G1/4 female thread G3/8IG - G3/8 female thread

Note: IG female thread; AG male thread

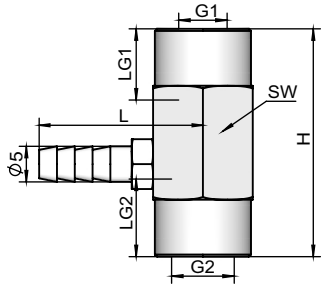
Model specifications of PJF universal threaded adapter

Model / Vacuum port connecting mode Horizontal pagoda joint	Vertical pagoda joint	Vertical female thread	Horizontal female thread
PJF-LB6-M4IG-M5IG	PJF-B6-M8AG-M5IG	PJF-R1-M16AG-G1/4IG	PJF-LR1-M10IG-G1/4IG
PJF-LB6-M6IG-M5IG	PJF-B6-M10AG-M5IG	PJF-R1-M16AG-G3/8IG	PJF-LR1-M10IG-G3/8IG
PJF-LB6-M6IG-M8IG	PJF-B6-M10AG-M8IG	-	-
PJF-LB6-M8IG-G1/8IG	PJF-B6-M14AG-G1/8IG	-	-

Design parameters of PJF universal threaded adapter

Horizontal pagoda joint

PJF-LB6...



Model	Size (mm)							
	H	G1	LG1	G2	LG2	SW	L	Weight g
PJF-LB6-M4IG-M5IG	22	M4	6	M5	6	10	21	15.5
PJF-LB6-M6IG-M5IG	32	M6	6	M5	6	14	23	40
PJF-LB6-M6IG-M8IG	32	M6	8	M8	8	14	23	39
PJF-LB6-M8IG-G1/8IG	32	M8	6.5	G1/8	6	14	23	39

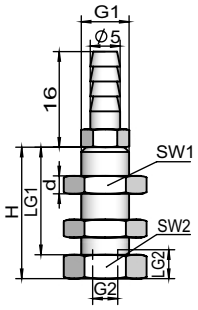
Universal suction cup mounting fittings —fixing connectors

PJF universal fixing connector

Design parameters of PJF universal threaded adapter

Vertical pagoda joint

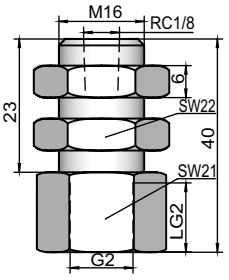
PJF-B6...



Model	Size (mm)								
	H	G1	LG1	G2	LG2	SW1	SW2	d	Weight g
PJF-B6-M8AG-M5IG	22	M8×1	17	M5	5	12	12	3	27
PJF-B6-M10AG-M5IG	32	M10×1	22	M5	6	14	14	3	30
PJF-B6-M10AG-M8IG	32	M10×1	22	M8	8	14	14	3	28
PJF-B6-M14AG-G1/8IG	32	M14×1	22	G1/8	8	17	17	4	33

Vertical female thread

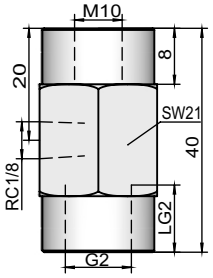
PJF-R1...



Model	Size (mm)		
	G2	LG2	Weight g
PJF-R1-M16AG-G1/4IG	G1/4	10	86.5
PJF-R1-M16AG-G3/8IG	G3/8	11	78

Horizontal female thread

PJF-LR1...



Model	Size (mm)		
	G2	LG2	Weight g
PJF-LR1-M10IG-G1/4IG	G1/4	10	88.5
PJF-LR1-M10IG-G3/8IG	G3/8	11	79

Universal holder

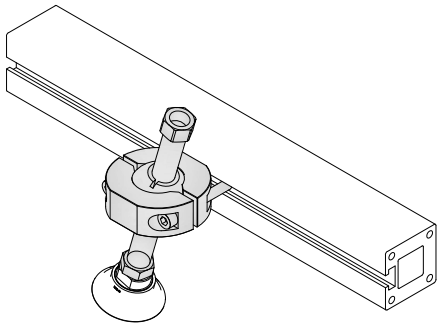
MTR-UNI universal holder

General -purpose

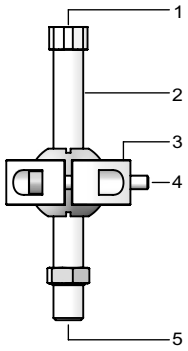
Sheet metal



Application of MTR-UNI universal holder



System design of MTR-UNI universal holder



Introduction

- Adjustment and fixing with ball clamp and fixing quickly and easily
- Adjustable height and inclination
- Suitable for square tube and round tube installation
- Vacuum gripper can be directly mounted through G1/4 connecting thread
- Flexible use, quick replacement, short set-up time
- Flexibly adapts to workpieces such as curved metal plates
- High adaptability, wide use
- Convenient, simple, economical and practical load beam design

Application

- Universal holder for mounting of vacuum components on existing cross beams made of square or round tubes with the aid of various adapters
- Height and inclination can be adjusted to fit different workpiece structures

Structure

- (1) Top of fixing plunger
- (2) Fixing plunger
- (3) Spherical holder
- (4) Fixing screw
- (5) Bottom of fixing plunger

Universal holder

MTR-UNI universal holder

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MTR-UNI universal holder purchase guide

MTR-UNI - 1N - G1/4AG - 80

① ② ③ ④

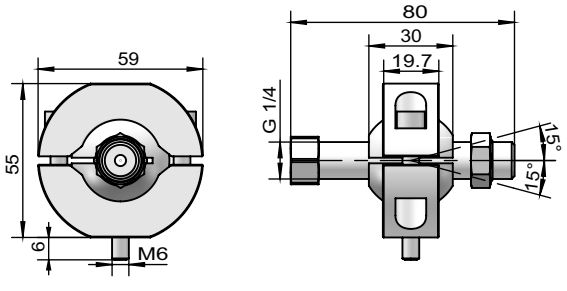
① Product series	② Cross-beam connection	③ Connecting thread	④ Size of fixing plunger
MTR-UNI	1N 2N Note: 1N (1 slider) 2N (2 sliders)	G1/4AG - G1/4 male thread Note: AG male thread	80mm 110mm 140mm 200mm

Model specifications of MTR-UNI universal holder

Model specification	G1/4-AG
MTR-UNI-1N-☐-80	●
MTR-UNI-2N-☐-80	●
MTR-UNI-2N-☐-110	●
MTR-UNI-2N-☐-140	●
MTR-UNI-2N-☐-200	●

Design parameters of MTR-UNI universal holder

MTR-UNI-1N-G1/4AG-☐



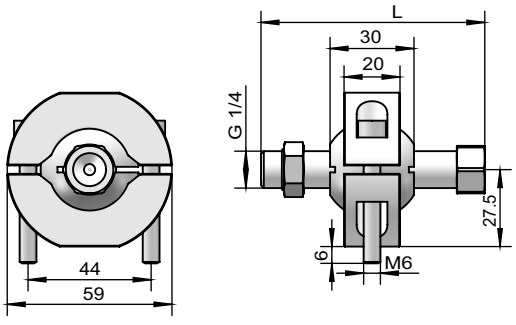
Universal holder

MTR-UNI universal holder

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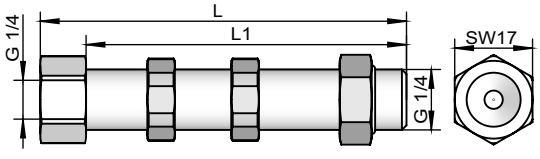
Design parameters of MTR-UNI universal holder

MTR-UNI-2N-G1/4AG-☐



Model	Size (mm) L
MTR-UNI-2N-G2-80	80
MTR-UNI-2N-G2-110	110
MTR-UNI-2N-G2-140	140
MTR-UNI-2N-G2-200	200

MAUG-ANB-G1/4-AG-☐

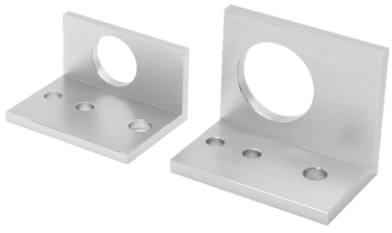


Model	Size (mm) L	L1
MAUG-ANB-G1/4-AG-80	80	70
MAUG-ANB-G1/4-AG-110	110	100
MAUG-ANB-G1/4-AG-140	140	130
MAUG-ANB-G1/4-AG-200	200	190

Connector used to connecting the suction cup and the buffer spring plunger

MTR-STA light metal section holder

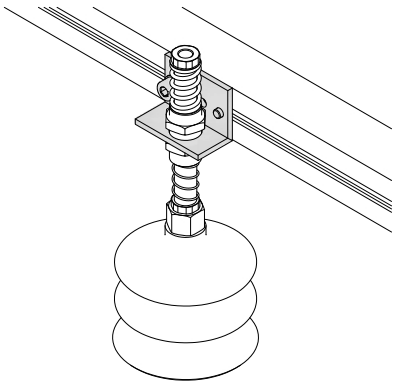
General -purpose



Introduction

- Sliding mounting of light metal sections with slots
- Directly mounted on gripper or buffer spring plunger
- Applicable to M5 to G1/4 buffer spring plunger
- Flexible use, quick replacement, short set-up time
- Good universality, wide use

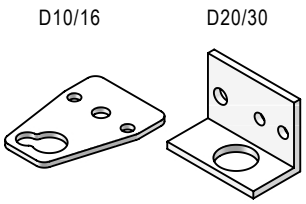
Application of MTR-STA light metal element holder



Application

- Used to mount gripper and buffer spring plunger to a profiled light alloy section

System design of MTR-STA light metal element holder



Structure

- Size 47: Metal plate holder with mounting hole
- Size 55–62: L-angled aluminum bracket with mounting holes

Connector used to connecting the suction cup and the buffer spring plunger

MTR-STA light metal section holder

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MTR-STA light metal element holder purchase guide

MTR-STA 55 1N D20 WI

① ② ③ ④ ⑤

① Product series	② Size specification	③ Number of sliders	④ Code of buffer plunger	⑤ Fixing mode
MTR-STA	**47** - Length: 47mm **55** - Length: 55mm **62** - Length: 62mm	1N - 1 slider	D10/16 D20 D30	FL - Horizontally fixed WI - Vertically fixed

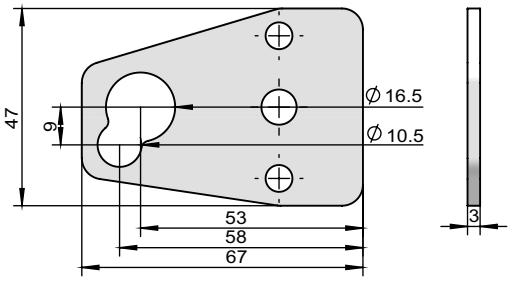
Note: The length of 47mm only fits "FL horizontally fixed"
The length of 55mm and 62mm only fit "WL vertically fixed"

Model specifications of MTR-STA light metal element holder

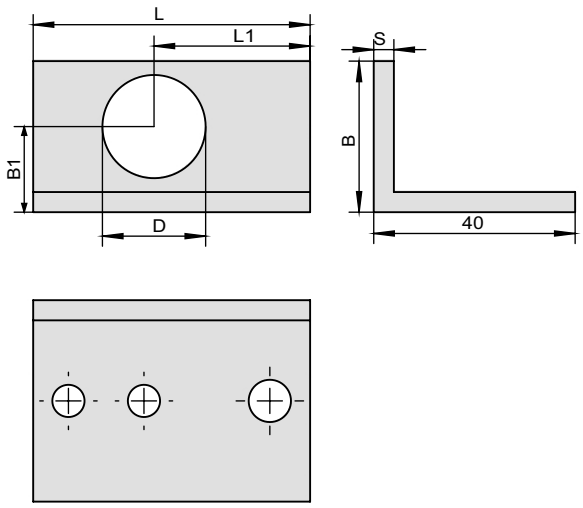
Model specification	Buffer plunger			Fixing mode	
	D10/16	**D20**	**D30**	**FL**	**WL**
MTR-STA 47	●	-	-	●	-
MTR-STA 55	-	●	-	-	●
MTR-STA 62	-	-	●	-	●

Design parameters of MTR-STA light metal element holder

MTR-STA FL



MTR-STA WI



Model	Size (mm)					
	D	**S**	**L**	**L1**	**B**	**B1**
MTR-STA 55 1N D20 WI	21	4	55	31	30	17
MTR-STA 62 1N D30 WI	31	5	62	40	50	27

Connector used to connecting the suction cup and the buffer spring plunger

MTR-STS square tube holder

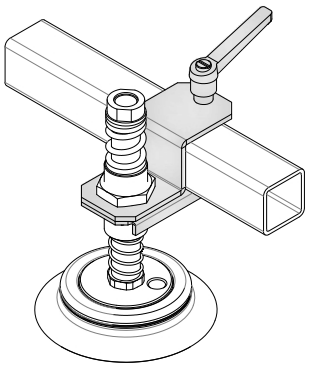
General -purpose



Introduction

- Sliding mounting on square tubes
- Directly mounted on gripper or buffer spring plunger
- Fixed through the clamping lever with handle (STS-...-D30 series)
- Applicable to M5 to G1/2 buffer spring plunger
- Flexible use, quick replacement, short srt-up time
- Good universality, wide use
- Can be secured and adjusted without tools

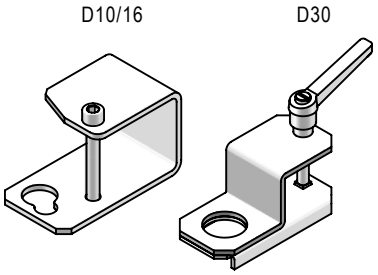
Application of MTR-STS square tube holder



Application

- Used to mount gripper and buffer spring plunger to a square tube

System design of MTR-STS square tube holder



Structure

- Made of stainless steel, the square tube holder is foldable and has mounting holes
- Size D10/16: mounted to a square tube with mechanical screws
- Size D30: secured to square tube with clamping lever

Connector used to connecting the suction cup and the buffer spring plunger
MTR-STS square tube holder

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MTR-STS square tube holder purchase guide

MTR-STS 30×30 D10/16 WI

① ② ③ ④

① Product series	② Size specification	③ Code of buffer plunger	④ Fixing mode
MTR-STS	30 ×30 - Cross section of square tube: 30 ×30mm 40 ×40 - Cross section of square tube: 40 ×40mm 50 ×50 - Cross section of square tube: 50 ×50mm 60 ×60 - Cross section of square tube: 60 ×60mm	D10/16 D30	WI - Vertically fixed

Note: MTR-STS square tube holder is supplied separately as a mounting element.

Model specifications of MTR-STS square tube holder

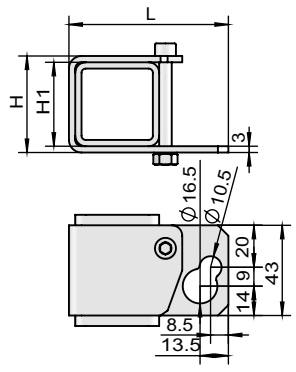
Model specification	Buffer plunger		Fixing mode
	D10/16	D30	WI
MTR-STS 30×30	●	-	●
MTR-STS 40×40	●	●	●
MTR-STS 50×50	-	●	●
MTR-STS 60×60	-	●	●

Connector used to connecting the suction cup and the buffer spring plunger

MTR-STS square tube holder

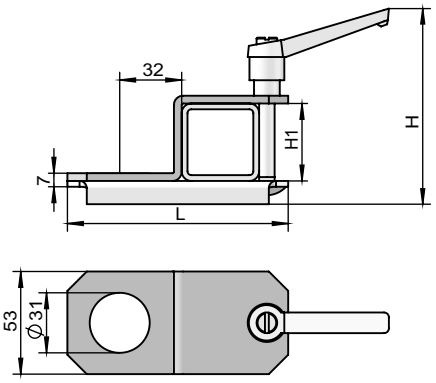
Design parameters of MTR-STS square tube holder

MTR-STS □ D10/16 WI



Model	Size (mm)		
	H	H1	L
MTR-STS 30×30 D10/16WI	36	30	66
MTR-STS 40×40 D10/16WI	46	40	76

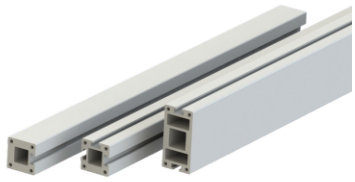
MTR-STS □ D30 WI



Model	Size (mm)		
	H	H1	L
MTR-STS 40×40 D30 WI	95	40	114
MTR-STS 50×50 D30 WI	105	50	124
MTR-STS 60×60 D30 WI	115	60	134

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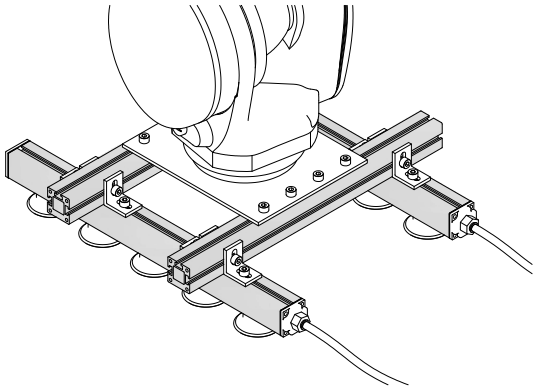
General -purpose



Introduction

- The enclosed vacuum section has internal chambers
- Gripper can be directly screwed into the element
- Sections with slots at the sides
- High-strength profiled aluminum section
- Vacuum / compressed air can be directly conveyed to each part
- Hose-free, integrated vacuum distribution from a central connection to the individual suction cups
- Light weight, large load capacity, maximum precision

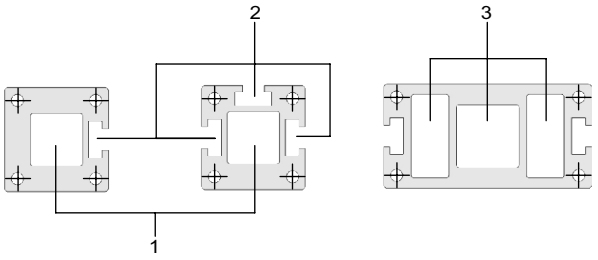
Application of MRTO mounting sections



Application

- Special profiled heavy-load sections
- Used as load profiled sections and for vacuum distribution

System design of MRTO mounting sections



Structure

- A chamber (1) on the 40x40 mm cross section; one or three slots on side (2)
- Three chambers on the 80 x 40mm cross section; two fixing slots on the side
- The chamber and fixing slots on the end are used to mount a elbow and corner connectors, sealing plates and other accessories

MRTO mounting section purchase guide

MRTO 40 × 80 2TN AL-1
① ② ③ ④

① Product series	② Size specification	③ Number of profiled section fixing slots	④ Material
MRTO	**40** - Cross section of square tube: 40 × 40mm **40 × 80** - Cross section of square tube: 40 × 80mm	1 TN - 1 slot 2 TN - 2 slots 3 TN - 3 slots	AL-1 - Aluminum

Note: The length of MRTO mounting section can be customized.

Model specifications of MRTO mounting section

Model specification	Number of profiled section fixing slots			Material
	1TN	**2TN**	**3TN**	**AL-1**
MRTO 40	●	-	●	●
MRTO 40 × 80	-	●	-	●

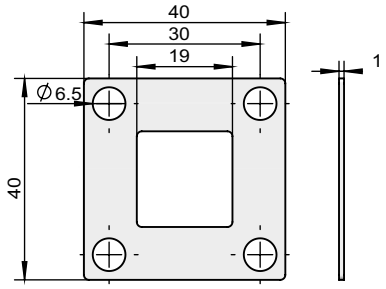
Other fittings purchase guide

Model	
40×40 profiled section sealing ring	MRTO-RA-40-PPTA
40×80 profiled section sealing ring	MRTO-RA-40×80-PPTA
40×40 profiled section sealing plate	MRTO-PL-40-MRTO
40×40 profiled section connecting plate	MRTO-PR-40×50×55 E-V
Profiled section triangle connection plate	MRTO-150×3E-FL
40×40 profiled section angle plate	MRTO-40×40×40 × 5 MRTO
40×40 profiled section connecting plate	MRTO-PL -40 G1/2-IG MRTO
40×80 profiled section connecting plate	MRTO-PL -80×40 G1/2-IG MRTO
10×20 profiled section nut	MRTO-NUT-STEI 10×20 M6-IG
10×20profiled section stepped nut	MRTO-NUT-STEI 10×20 M8-IG
Profiled section cross connection plate	MRTO-PR 185×185×3K-FL

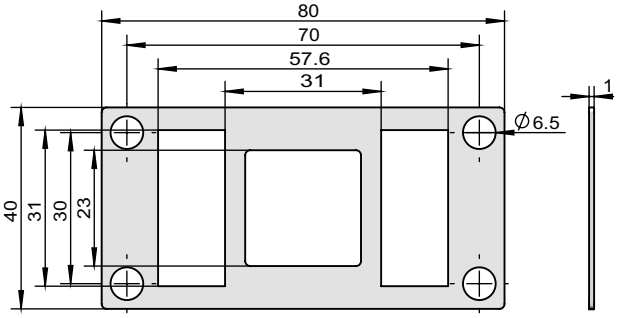
Design parameters of MTR-STS square tube holder

Design parameters of other fittings

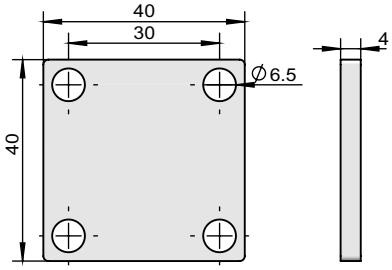
40×40 profiled section sealing ring



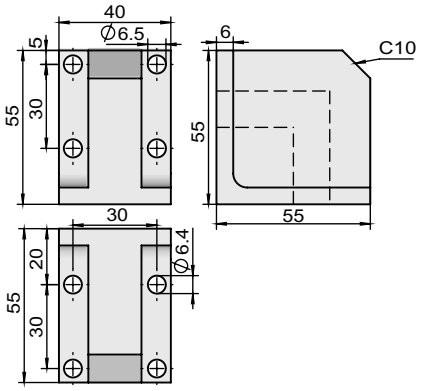
40×80 profiled section sealing ring



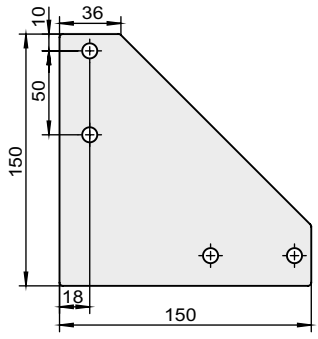
40×40 profiled section sealing plate



40×40 profiled section connecting plate

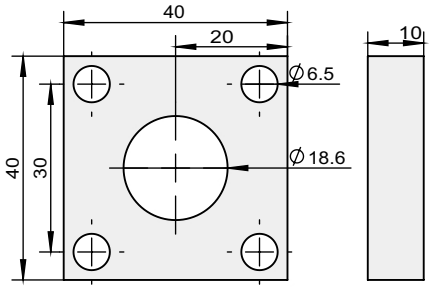


Profiled section triangle connection plate

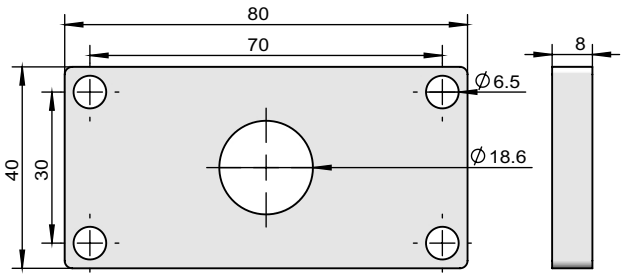


Design parameters of other fittings

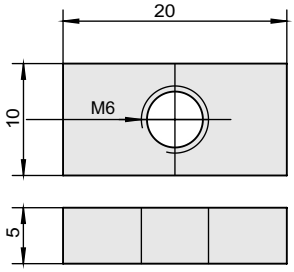
40×40 profiled section angle plate



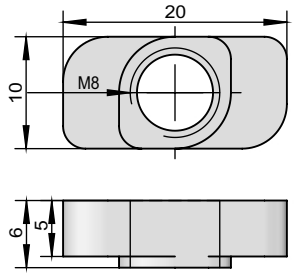
40×80 profiled section connecting plate



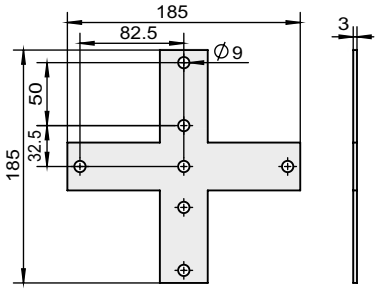
10×20profiled section nut



10×20profiled section stepped nut



Profiled section cross connection plate

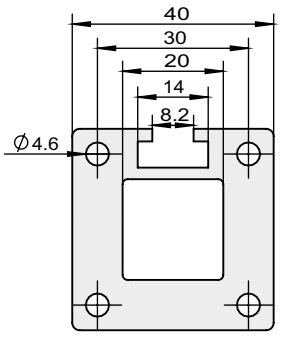


Technical parameters of MRTO mounting section

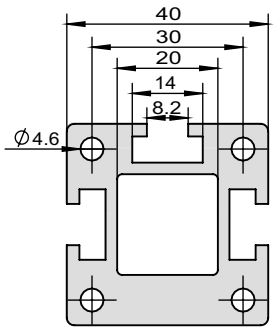
Model	Area cm^2	Moment of resistance Wx cm^3	Moment of resistance Wy cm^3	Moment of area Ix cm	Moment of area Iy cm	Mass kg/m	Radian (maximum) mm/m	Length (maximum)
MRTO 40 1TN AL-1	9.1	6.9	9.6	13.7	17.0	2.5	0.8	6000
MRTO 40 3TN AL-1	6.5	5.5	5.2	12.7	10.4	1.8	0.8	6000
MRTO 40 × 80 2TN AL-1	12.1	14.0	19.3	28.1	77.2	3.3	0.8	6000

Design parameters of MRTO mounting section

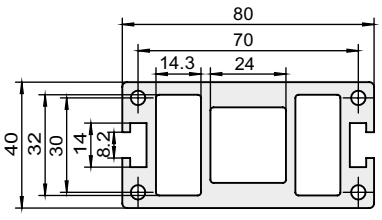
MRTO 40 1TN



MRTO 40 3TN



MRTO 80X40 2TN



Universal plug
PDA universal plug

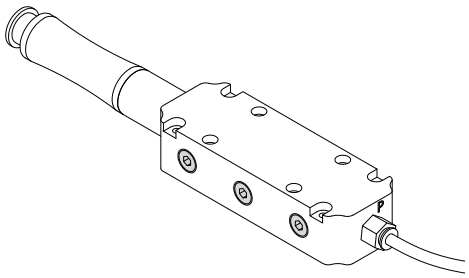
General -purpose



Introduction

- Stainless steel main body with long service life and applicable to harsh
- environments Applicable to various operating conditions in the vacuum industry
- A plurality of specifications available

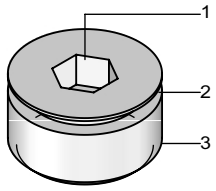
Application of PDA universal plug



Application

- Applicable to removable and mountable elements with sealing G thread, such as vacuum generator with multiple connection port, foam gripper with vacuum breaking function

System design of PDA universal plug



Structure

- (1) Wrench connecting part
- (2) Sealing ring
- (3) Thread

Universal plug
PDA universal plug

AMILA

PDA universal plug purchase guide

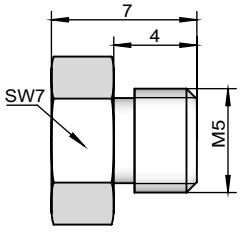
PDA M5-AG
① ②

① Product series	② Thread specification
PDA	M5-AG - M5 male thread G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1/2-AG - G1/2 male thread

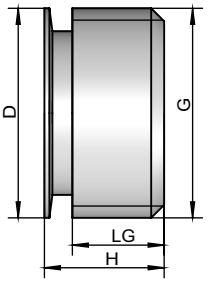
Note: AG male thread

Design parameters of PDA universal plug

PDA M5-AG



PDA □



Model	Size (mm)			
	D	H	LG	G
PDA G1/8-AG	10	6	3.5	G1/8
PDA G1/4-AG	13.2	6.5	4.2	G1/4
PDA G3/8-AG	16.7	7.6	4.8	G3/8
PDA G1/2-AG	21	12	9.2	G1/2

Universal quick plug-in connector

PJP universal quick plug-in connector

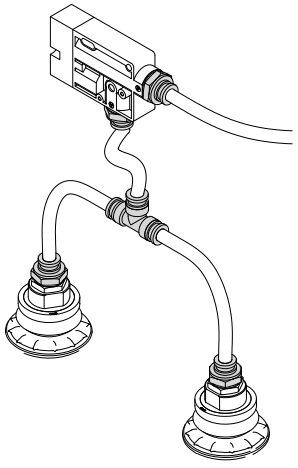
General -purpose



Introduction

- Copper alloy main body with long service life and applicable to harsh
- environments A connecting element used in a vacuum system
- A plurality of models available

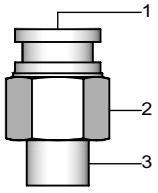
Application of PJP universal quick plug-in connector



Application

- Applicable to quick connection to a vacuum system

System design of PJP universal quick plug-in connector



Structure

- (1) Air tube quick plug-in port
- (2) Main body
- (3) Thread

Universal quick plug-in connector

PJP universal quick plug-in connector

AMILA

PJP universal quick plug-in connector purchase guide

PJP - I - A4 - M5AG

① ② ③ ④

① Product series	② Tube insertion direction	③ Inserted tube specification	④ Thread specification
PJP	I - Vertical direction L - Horizontal direction T - Both ends in horizontal direction QT - Three ends in T-shaped directions	A4 - ϕ4 hose A6 - ϕ6 hose A8 - ϕ8 hose A10 - ϕ10 hose A12 - ϕ12 hose A14 - ϕ14 hose	M5AG - M5×0.8 male thread G1/8AG - G1/8 male thread G1/4AG - G1/4 male thread G3/8AG - G3/8 male thread G1/2AG - G1/2 male thread Note: AG male thread

Model specifications of PJP universal quick plug-in connector

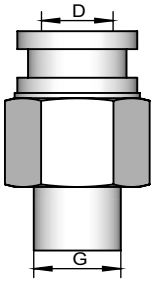
Model/Type Vertical	Horizontal	Both ends in horizontal direction	Three ends in T-shaped directions
PJP-I-A4-M5-AG	PJP-L-A4-M5-AG	PJP-T-A4-M5-AG	PJP-QT-A4
PJP-I-A4-G1/8-AG	PJP-L-A4-G1/8-AG	PJP-T-A4-G1/8-AG	PJP-QT-A6
PJP-I-A6-G1/8-AG	PJP-L-A6-G1/8-AG	PJP-T-A6-G1/8-AG	PJP-QT-A8
PJP-I-A8-G1/8-AG	PJP-L-A8-G1/8-AG	PJP-T-A8-G1/8-AG	PJP-QT-AI0
PJP-I-A6-G1/4-AG	PJP-L-A4-G1/4-AG	PJP-T-A6-G1/4-AG	PJP-QT-A12
PJP-I-A8-G1/4-AG	PJP-L-A6-G1/4-AG	PJP-T-A8-G1/4-AG	PJP-QT-AI4
PJP-I-A10-G1/4-AG	PJP-L-A8-G1/4-AG	PJP-T-A10-G1/4-AG	-
PJP-I-A12-G1/4-AG	PJP-L-A10-G1/4-AG	PJP-T-A12-G1/4-AG	-
PJP-I-A8-G3/8-AG	PJP-L-A12-G1/4-AG	-	-
PJP-I-A10-G3/8-AG	PJP-L-A8-G3/8-AG	-	-
PJP-I-AI2-G3/8-AG	PJP-L-A10-G3/8-AG	-	-
PJP-I-A14-G3/8-AG	PJP-L-A12-G3/8-AG	-	-
PJP-I-A10-G1/2-AG	PJP-L-A10-G1/2-AG	-	-
PJP-I-A12-G1/2-AG	PJP-L-A12-G1/2-AG	-	-
PJP-I-A14-G1/2-AG	-	-	-

Universal quick plug-in connector

PJP universal quick plug-in connector

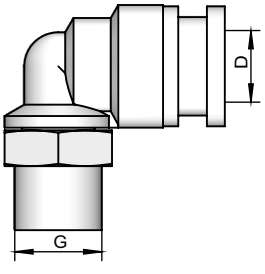
Design parameters of PJP universal quick plug-in connector

PJP-I...



Model	Size (mm)	
	D	G
PJP-I-A4-M5-AG	4	M5
PJP-I-A4-G1/8-AG	4	G1/8
PJP-I-A6-G1/8-AG	6	G1/8
PJP-I-A6-G1/4-AG	6	G1/4
PJP-I-A8-G1/8-AG	8	G1/8
PJP-I-A8-G1/4-AG	8	G1/4
PJP-I-A8-G3/8-AG	8	G3/8
PJP-I-A10-G1/4-AG	10	G1/4
PJP-I-A10-G3/8-AG	10	G3/8
PJP-I-A10-G1/2-AG	10	G1/2
PJP-I-A12-G1/4-AG	12	G1/4
PJP-I-A12-G3/8-AG	12	G3/8
PJP-I-A12-G1/2-AG	12	G1/2
PJP-I-A14-G3/8-AG	14	G3/8
PJP-I-A14-G1/2-AG	14	G1/2

PJP-L...



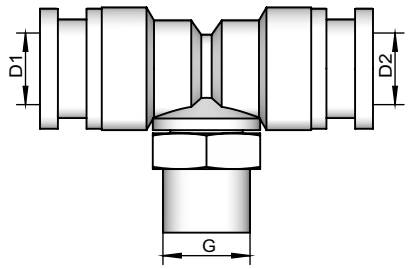
Model	Size (mm)	
	D	G
PJP-L-A4-M5-AG	4	M5
PJP-L-A4-G1/8-AG	4	G1/8
PJP-L-A6-G1/8-AG	6	G1/8
PJP-L-A6-G1/4-AG	6	G1/4
PJP-L-A8-G1/8-AG	8	G1/8
PJP-L-A8-G1/4-AG	8	G1/4
PJP-L-A8-G3/8-AG	8	G3/8
PJP-L-A10-G1/4-AG	10	G1/4
PJP-L-A10-G3/8-AG	10	G3/8
PJP-L-A10-G1/2-AG	10	G1/2
PJP-L-A12-G1/4-AG	12	G1/4
PJP-L-A12-G3/8-AG	12	G3/8
PJP-L-A12-G1/2-AG	12	G1/2
PJP-L-A14-G3/8-AG	14	G3/8
PJP-L-A14-G1/2-AG	14	G1/2

Universal quick plug-in connector

PJP universal quick plug-in connector

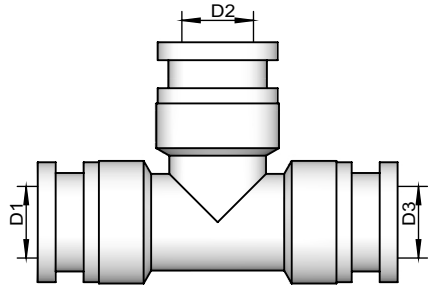
Design parameters of PJP universal quick plug-in connector

PJP-T...



Model	Size (mm)		
	D1	D2	G
PJP-T-A4-M5-AG	4	4	M5
PJP-T-A4-G1/8-AG	4	4	G1/8
PJP-T-A6-G1/8-AG	6	6	G1/8
PJP-T-A6-G1/4-AG	6	6	G1/4
PJP-T-A8-G1/8-AG	8	8	G1/8
PJP-T-A8-G1/4-AG	8	8	G1/4
PJP-T-A10-G1/4-AG	10	10	G1/4
PJP-T-A12-G1/4-AG	12	12	G1/4

PJP-QT...



Model	Size (mm)		
	D1	D2	D3
PJP-QT-A4	4	4	4
PJP-QT-A6-A4	4	6	4
PJP-QT-A6	6	6	6
PJP-QT-A8-A6	6	8	6
PJP-QT-A8	8	8	8
PJP-QT-A10-A8	8	10	8
PJP-QT-A10	10	10	10
PJP-QT-A12-A10	10	12	10
PJP-QT-A12	12	12	12

Universal installation fitting —threaded adapter

PJT universal threaded adapter

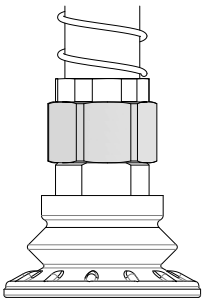
General -purpose



Introduction

- Complete specifications, conversion between threads of different specifications enabled
- Made of stainless steel

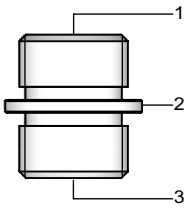
Application of PJT universal threaded adapter



Application

- Applicable to conversion between threads of different specifications, e.g. connection between suction cup and buffer plunger, connection between suction cup and plug-in joint

System design of PJT universal threaded adapter



Structure

- (1) Upper thread
- (2) Main body
- (3) Low thread

Universal installation fitting —threaded adapter

PJT universal threaded adapter

PJT universal threaded adapter purchase guide

PJT - M5AG - M8IG

① ② ③

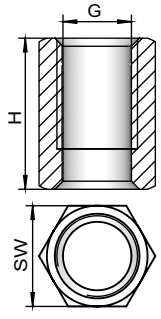
① Product series	② Thread specification (I)	③ Thread specification (II)
PJT	M5AG - M5×0.8 male thread M8AG - M8×1.25 male thread G1/8AG - G1/8 male thread G1/4AG - G1/4 male thread G3/8AG - G3/8 male thread M5IG - M5×0.8 female thread M8IG - M8×1.25 female thread G1/8IG - G1/8 female thread G1/4IG - G1/4 female thread G3/8IG - G3/8 female thread	Null – Identical to thread specification (I) M5AG - M5×0.8 male thread M8AG - M8×1.25 male thread G1/8AG - G1/8 male thread G1/4AG - G1/4 male thread G3/8AG - G3/8 male thread G1/2AG - G1/2 male thread M5IG - M5×0.8 female thread M8IG - M8×1.25 female thread G1/8IG - G1/8 female thread G1/4IG - G1/4 female thread G3/8IG - G3/8 female thread G1/2IG - G1/2 female thread Note: IG female thread; AG male thread

Model specifications of PJT universal threaded adapter

Model/Type Double female threads with equal diameter	Double male threads with equal diameter	Double male threads with varied diameter	Double female and male threads with varied diameter
PJT-M5IG	PJT-M5AG	PJT-M5AG-M8AG	PJT-M5AG-M8IG
PJT-M8IG	PJT-M8AG	PJT-M8AG-G1/8AG	PJT-M8AG-G1/8IG
PJT-G1/8IG	PJT-G1/8AG	PJT-G1/8AG-G1/4AG	PJT-G1/8AG-G1/4IG
PJT-G1/4IG	PJT-G1/4AG	PJT-G1/4AG-G3/8AG	PJT-G1/4AG-G3/8IG
PJT-G3/8IG	PJT-G3/8AG	PJT-G3/8AG-G1/2AG	PJT-G3/8AG-G1/2IG

Design parameters of PJT universal threaded adapter

Double female threads with equal diameter



Mode	Size (mm)			
	H	SW	G	weight g
PJT-M5IG	11	8	M5	4
PJT-M8IG	15	10	M8	6.6
PJT-G1/8IG	18	12	G1/8	10
PJT-G1/4IG	22	16	G1/4	22
PJT-G3/8IG	24	19	G3/8	27

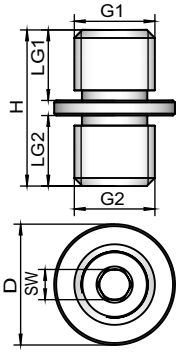
Universal installation fitting —threaded adapter

AMILA

PJT universal threaded adapter

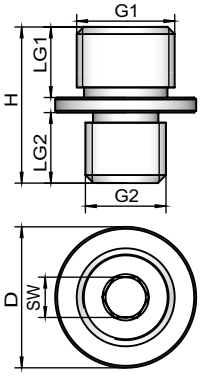
Design parameters of PJT universal threaded adapter

Double male threads with equal diameter



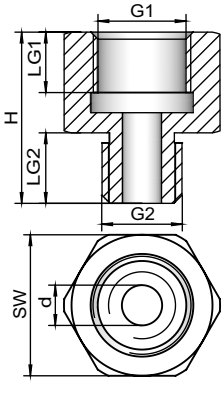
Mode	Size (mm)							
	H	D	SW	LG1	LG2	G1	G2	weight g
PJT-M5AG	11.5	8	2.5	5	5	M5	M5	3
PJT-M8AG	15.5	12	3	7	7	M8	M8	7
PJT-G1/8AG	15.5	14	4	7	7	G1/8	G1/8	11.5
PJT-G1/4AG	20	17	5	9	9	G1/4	G1/4	23
PJT-G3/8AG	22	21	5	10	10	G3/8	G3/8	33

Double male threads with varied diameter



Mode	Size (mm)							
	H	D	SW	LG1	LG2	G1	G2	weight g
PJT-M5AG-M8AG	13.5	12	2.5	5	7	M5	M8	6
PJT-M8AG-G1/8AG	15.5	14	4	7	7	M8	G1/8	11.5
PJT-G1/8AG-G1/4AG	18	17	5	7	9	G1/8	G1/4	20
PJT-G1/4AG-G3/8AG	21	21	5	9	10	G1/4	G3/8	30
PJT-G3/8AG-G1/2AG	24	24	6	10	12	G3/8	G1/2	37

Double female and male threads with varied diameter



Mode	Size (mm)							
	d	H	SW	LG1	LG2	G1	G2	weight g
PJT-M5AG-M8IG	2.5	14	10	5	7	M5	M8	5
PJT-M8AG-G1/8IG	4	17	12	7	8	M8	G1/8	8
PJT-G1/8AG-G1/4IG	5	20	16	7	10	G1/8	G1/4	16.2
PJT-G1/4AG-G3/8IG	5	22	19	9	10	G1/4	G3/8	25
PJT-G3/8AG-G1/2IG	6	25	24	10	12	G3/8	G1/2	48

Universal pagoda joint

PJQ universal pagoda joint

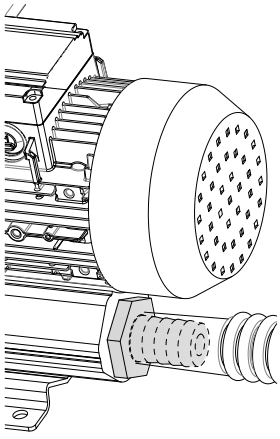
General -purpose



Introduction

- All made of metal with long service life and applicable to harsh environments
- Can be used in conjunction with commercially available standard air pipes and steel wire pipes
- A plurality of models available

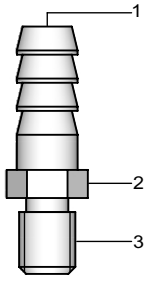
Application of PJQ universal pagoda joint



Application

- Used to connect large-flow vacuum pipes such as the duct system of vacuum blower

System design of PJQ universal pagoda joint



Structure

- (1) Plug-in port
- (2) Main body
- (3) Connecting thread

Universal pagoda joint

PJQ universal pagoda joint

AMILA

PJQ universal pagoda joint purchase guide

PJQ - B6 - M5-AG

① ② ③

① Product series	② Tube diameter specification	③ Thread specification
PJQ	B6 - ϕ6 tube diameter	M5-AG - M5 male thread
	B8 - ϕ8 tube diameter	G1/8-AG - G1/8 male thread
	B10 - ϕ10 tube diameter	G1/4-AG - G1/4 male thread
	B12 - ϕ12 tube diameter	G3/8-AG - G3/8 male thread
	B19 - ϕ19 tube diameter	G1/2-AG - G1/2 male thread
	B25 - ϕ25 tube diameter	G3/4-AG - G3/4 male thread
	B32 - ϕ32 tube diameter	G1-AG - G1 male thread
	B60 - ϕ60 tube diameter	G2-AG - G2 male thread

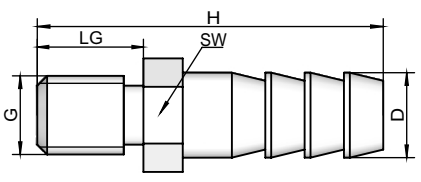
Note: AG male thread

Model specifications of PJQ universal pagoda joint

Model	Tube diameter specification							
	B6	B8	B10	B12	B19	B25	B32	B60
PJQ-□-M5-AG	●	-	-	-	-	-	-	-
PJQ-□-G1/8-AG	-	●		-	-	-	-	-
PJQ-□-G1/4-AG	-	-	●	-	-	-	-	-
PJQ-□-G3/8-AG	-	-	-	●	-	-	-	-
PJQ-□-G1/2-AG	-	-	-	-	●	-	-	-
PJQ-□-G3/4-AG	-	-	-	-	●	●	-	-
PJQ-□-G1-AG	-	-	-	-	-	●	●	-
PJQ-□-G2-AG	-	-	-	-	-	-	-	●

Design parameters of PJQ universal pagoda joint

PJQ...

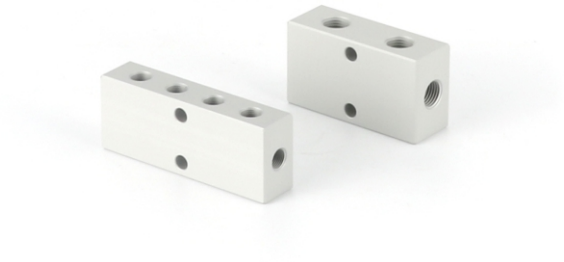


Model	Size (mm)				
	H	**D**	**LG**	**G**	**SW**
PJQ-B6 M5-AG	19	5	3	M5	6
PJQ-B8 G1/8-AG	34	6.5	8	G1/8	14
PJQ-B10 G1/4-AG	42	8	10	G1/4	17
PJQ-B12 G3/8-AG	43	9	10	G3/8	19
PJQ-B19 G1/2-AG	58	19	10	G1/2	24
PJQ-B19 G3/4-AG	60	19	12	G3/4	32
PJQ-B25 G3/4-AG	60	25	12	G3/4	32
PJQ-B25 G1-AG	63	25	15	G1	36
PJQ-B32 G1-AG	63	32	15	G1	36
PJQ-B60 G2-AG	72	58	18	G2	-

Positive pressure / vacuum diverter

PDR positive pressure / vacuum diverter

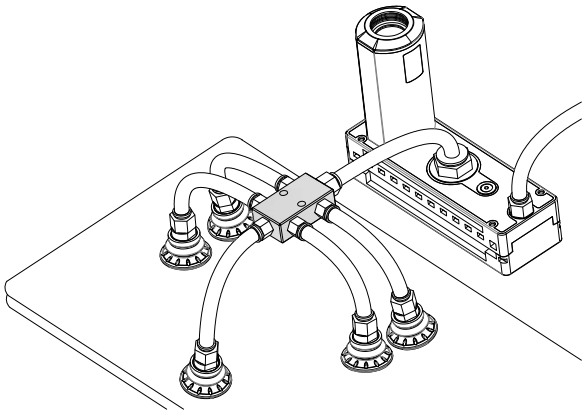
General -purpose



Introduction

- Large-diameter inlet and outlet available
- Low flow resistance
- Diverting piping solution

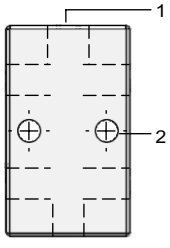
Application of PDR vacuum diverter



Application

- A single vacuum generator can be connected to multiple suction cups through the diverter
- Compressed air can be supplied to multiple generators through the diverter

System design of PDR vacuum diverter



Structure

- (1) Diverting port
- (2) Mounting hole

Positive pressure / vacuum diverter

PDR positive pressure / vacuum diverter

AMILA

PDR vacuum diverter purchase guide

PDR - G1/4IG - 5 - G1/8IG

① ② ③ ④

① Product series	② Connection specification	③ Number of diverting port sets	④ Specification of diverting port
PDR	G1/4IG - G1/4 female thread G3/8IG - G3/8 female thread	5 - 5 sets of diverting ports 9 - 9 sets of diverting ports	G1/8IG - G1/8 female thread G1/4IG - G1/4 female thread

Note: IG - Female thread
The connecting port G1/4- IG can only match the diverting port G1/8- IG
The connecting port G3/8- IG can only match the diverting port G1/4- IG

Model specifications of PDR vacuum diverter

Model specification	Number of diverting port sets		Specification of diverting port	
	5	**9**	**G1/8-IG**	**G1/4-IG**
PDR-G1/4IG...	●	●	●	-
PDR-G3/8IG...	●	●	-	●

Technical parameters of PDR vacuum diverter

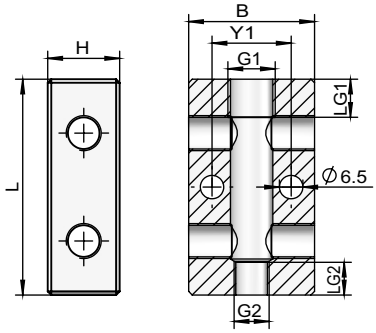
Model	Specification of diverting port	weight g
PDR-G1/4IG-5-G1/8IG	5×G1/8 female thread	90
PDR-G3/8IG-5-G1/4IG	5×G1/4 female thread	110
PDR-G1/4IG-9-G1/8IG	9×G1/8 female thread	120
PDR-G3/8IG-9-G1/4IG	9×G1/4 female thread	240

Positive pressure / vacuum diverter

PDR positive pressure / vacuum diverter

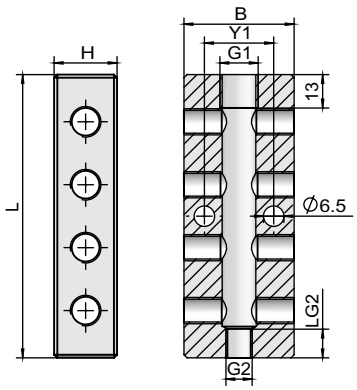
Design parameters of PDR vacuum diverter

5 sets of diverting ports



Model	Size (mm)								
	B	G1	G2	H	L	L1	LG1	LG2	Y1
PDR-G1/4IG-5-G1/8IG	35	G1/4	G1/8	20	60	30	10	9	22
PDR-G3/8IG-5-G1/4IG	40	G3/8	G1/4	25	72	36	13	11	27

9 sets of diverting ports



Model	Size (mm)							
	B	G1	G2	H	L	L1	LG2	Y1
PDR-G1/4IG-5-G1/8IG	35	G1/4	G1/8	20	90	45	9	22
PDR-G3/8IG-5-G1/4IG	40	G3/8	G1/4	25	116	58	11	27

Vacuum generator series

Product overview

AMILA

Vacuum generators



393 MVD series

Jet vacuum generator

◇ Maximum vacuum degree: -85k Pa

◇ Maximum vacuum flow rate: 63NL/m

General -purpose



412 MN series

Mini multistage vacuum generator

◇ Maximum vacuum degree: -85kPa

◇ Maximum vacuum flow rate: 220NL/min

General -purpose, Packaging, Injection molding



396 VY series

Mini single-stage vacuum generator

◇ Maximum vacuum degree: -92kPa

◇ Maximum vacuum flow rate: 21NL/min

3C product, Injection molding



415 M2010 series

Multistage vacuum generator

◇ Maximum vacuum degree: -92kPa

◇ Maximum vacuum flow rate: 16.8NL/min

General -purpose, Sheet metal, 3C product, Packaging



401 MVR series

Linear single-stage vacuum generator

◇ Maximum vacuum degree: -90kPa

◇ Maximum vacuum flow rate: 27NL/min

General -purpose, Sheet metal, Packaging, Injection molding



418 M3010 series

Multistage vacuum generator

◇ Maximum vacuum degree: -94kPa

◇ Maximum vacuum flow rate: 87NL/min

General -purpose, Sheet metal, 3C product, Packaging



404 MEAC- ECO series

Quick evacuating vacuum generator

◇ Maximum vacuum degree: -85kPa

◇ Maximum vacuum flow rate: 35NL/min

Sheet metal, Packaging, Automobile manufacture



421 M5010 series

Multistage vacuum generator

◇ Maximum vacuum degree: -95kPa

◇ Maximum vacuum flow rate: 372NL/min

General -purpose, Sheet metal, 3C product, Packaging



408 MEAC series

Quick vacuum generator with blowing function

◇ Maximum vacuum degree: -85k Pa

◇ Maximum vacuum flow rate: 35NL/min

Sheet metal, Packaging, Automobile manufacture



424 MSV series

Vacuum generator with back-blowing function

◇ Maximum vacuum degree: -95k Pa

◇ Maximum vacuum flow rate: 372NL/min

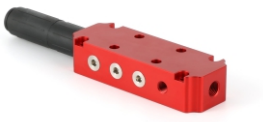
General -purpose, Sheet metal, Packaging, Glass

Vacuum generator series

Product overview

AMILA

Vacuum generators



427 MBV series

Multistage vacuum generator

◇ Maximum vacuum degree: -95k Pa

◇ Maximum vacuum flow rate: 372NL/min

Sheet metal | 3C product | Packaging | Solar energy



448 MS3 series

Integrated vacuum generator

◇ Maximum vacuum degree: -85k Pa

◇ Maximum vacuum flow rate: 225NL/min

General -purpose | Sheet metal | Packaging | Robot



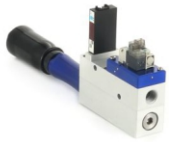
430 MC series

Multistage vacuum generator

◇ Maximum vacuum degree: -95k Pa

◇ Maximum vacuum flow rate: 2232Nl

Sheet metal | Packaging | Wood | Composite material



451 M-ECO series

Integrated vacuum generator

◇ Maximum vacuum degree: -95k P

◇ Maximum vacuum flow rate: 372N

Sheet metal | Packaging | Wood | Composite material



434 M6010 series

Large flow type vacuum generator

◇ Maximum vacuum degree: -95kPa

◇ Maximum vacuum flow rate: 1488NL/min

General -purpose



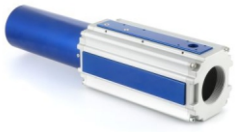
454 MCP series

Integrated vacuum generator

◇ Maximum vacuum degree: -85kPa

◇ Maximum vacuum flow rate: 200NL/min

Sheet metal | Packaging | Injection molding | Glass | New energy



437 M6040 series

Large flow type vacuum generator

◇ Maximum vacuum degree: -95kPa

◇ Maximum vacuum flow rate: 5952NL/min

General -purpose | 3C product | Packaging | Injection molding



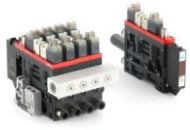
458 MMP series

Integrated vacuum generator

◇ Maximum vacuum degree: -85kPa

◇ Maximum vacuum flow rate: 200NL/min

General -purpose | Sheet metal | Robot | Packaging



440 MS2 series

Integrated vacuum generator

◇ Maximum vacuum degree: -85k Pa

◇ Maximum vacuum flow rate: 63NL/min

3C product | Packaging | Injection molding



462 MCP-RP series

Energy-saving mechanical vacuum generator

◇ Maximum vacuum degree: -85k Pa

◇ Maximum vacuum flow rate: 200NL/min

Sheet metal | Glass | Automobile manufacture

Vacuum generator series

Product overview

Vacuum generators



465 MEC series

Conveying vacuum generator

◇ Maximum vacuum degree: -5mbar

◇ Maximum vacuum flow rate: 8640NL/min

Biopharma ceutical | Food industry | Packaging



472 MAH series

Vacuum blower

◇ Maximum vacuum degree: -460mbar

◇ Maximum vacuum flow rate: 1110m³/min

General -purpose



468 AE-SR series

Vacuum pump

◇ Maximum vacuum degree: -920mbar

◇ Maximum vacuum flow rate: 286m³/min

General -purpose

Jet vacuum generator

MVD jet vacuum generator

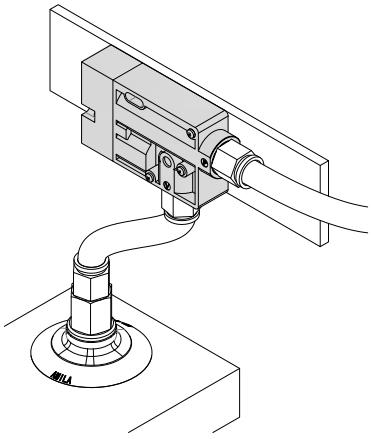
General-purpose



Introduction

- Basic generator with main body made of plastic(PBT material)
- Main body integrated with silencer, easy installation
- Small size, light weight, low cost

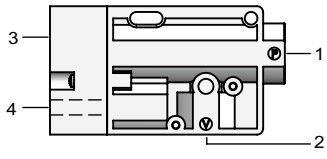
System design of MVD jet vacuum generator



Application

- The most universal vacuum generator widely used in various vacuum systems
- Applicable to various handling operations, e.g. automobile, sheet metal, woodworking, food, packaging, etc.

System design of MVD jet vacuum generator



Structure

- (1) Compressed air inlet
- (2) Vacuum port
- (3) Silencer
- (4) Exhaust port

Jet vacuum generator

MVD jet vacuum generator

MVD jet vacuum generator purchase guide

MVD 0.5 H S

① ② ③ ④

① Product series	② Nozzle size	③ Maximum vacuum pressure	④ Rated air supply pressure
MVD	0.5mm 0.7mm 1.0mm 1.5mm	H - -85 Kpa	S - 5 bar R - 3.5 bar

Note: The nozzle size 0.5 mm can only match “HS”

Technical parameters of MVD jet vacuum generator

Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure bar
MVD 0.5 HS	-85	6	13	5
MVD 0.7 HS	-85	11	22.5	5
MVD 0.7 HR	-85	9	22.5	3.5
MVD 1.0 HS	-85	27	44	5
MVD 1.0 HR	-85	25	44	3.5
MVD 1.5 HS	-85	63	100	5
MVD 1.5 HR	-85	54	100	3.5

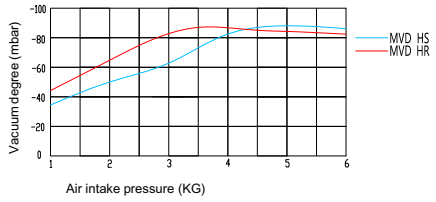
Jet vacuum generator

MVD jet vacuum generator

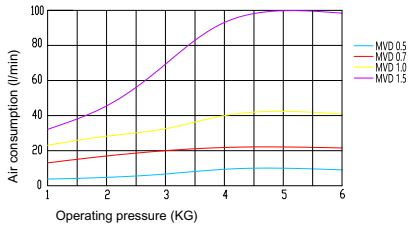
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Performance curve of MVD jet vacuum generator

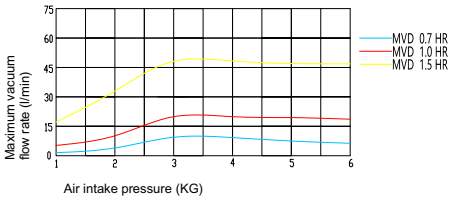
Vacuum degree at different pressure



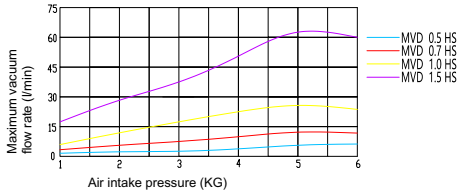
Air consumption at different pressure



Maximum vacuum flow rate at different pressure

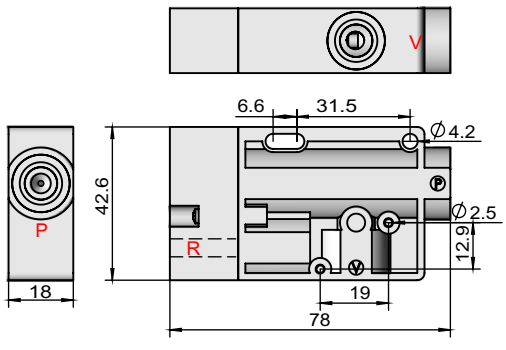


Maximum vacuum flow rate at different pressure



Design parameters of MVD jet vacuum generator

MVD...

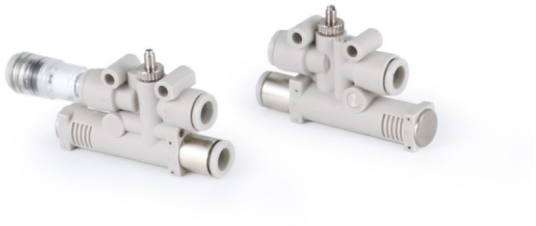


P: Compressed air inlet (G1/4)
R: Exhaust port
V: Vacuum port (G1/8)

Mini single-stage vacuum generator

VY mini single-stage vacuum generator

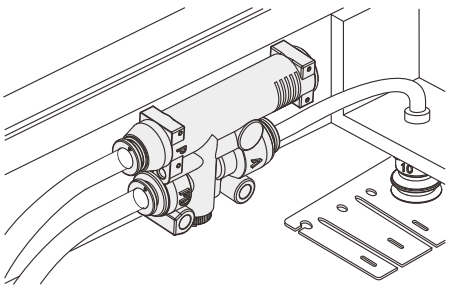
3C product Injection molding



Introduction

- Small size, light weight
- Two specifications: high-vacuum type and large-flow type
- With vacuum breaking function
- Optional vacuum filter and mounting bracket
- Suitable for operating sites with installation position and weight limits
- Different operating conditions meeting different vacuum flow needs
- Can quickly release the product without external control
- The customer can easily and freely selects fittings and elements according to the actual operating conditions

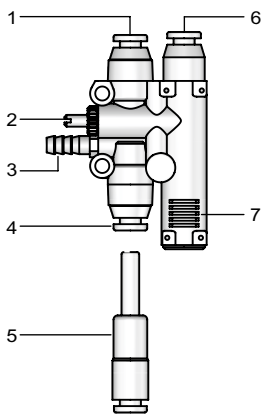
Application of VY mini single-stage vacuum generator



Application

- Applicable to handling electronic components and other small workpieces; suitable for applications needing quick gripping and release

System design of VY mini single-stage vacuum generator



Structure

- (1) Vacuum breaking port
- (2) Adjustment screw
- (3) Vacuum detection port
- (4) Vacuum port
- (5) Vacuum filter
- (6) Compressed air inlet
- (7) Exhaust port

Mini single-stage vacuum generator

VY mini single-stage vacuum generator

AMILA

VY mini single-stage vacuum generator purchase guide

VY H 07 - 666 J - F

① ② ③ ④ ⑤ ⑥

① Product series	② Controller	③ Nozzle size	④ Outer diameter of tube inserted into the connecting port
VY	H - H - High-vacuum type (0.5MPa) L - L - Large-flow type (0.5MPa)	05 - Φ0.5mm 07 - Φ0.7mm	444 - Vacuum port Φ4mm Air supply port Φ4mm Vacuum breaking port Φ4mm 666 - Vacuum port Φ6mm Air supply port Φ6mm Vacuum breaking port Φ6mm

⑤ Special specification	⑥ Vacuum filter
Null - Silencer integrated J - Mouter diameter of inserted tube: Φ6m; joints arranged concentratedly	Null - No vacuum filter F - Vacuum filter equipped

Model specifications of VY mini single-stage vacuum generator

Model	H	L	J	F
VY☐ 05...	●	●	●	●
VY☐ 07...	●	●	●	●

Technical parameters of VY mini single-stage vacuum generator

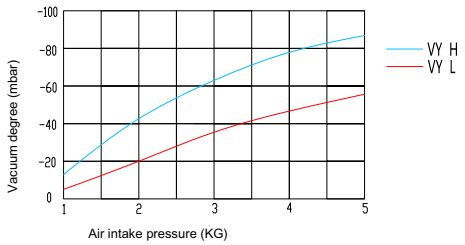
Model	Nozzle diameter mm	Operating temperature ℃	Pressure range MPa	Air supply pressure MPa	Maximum vacuum degree KPa	Maximum vacuum flow rate L/min	Air consumption L/min	Precision of vacuum filter μm
VYH05...	0.5	5~50	0.15~0.7	0.5	-90	7	11.5	10
VYL05...	0.5	5~50	0.15~0.7	0.5	-66	12	11.5	10
VYH07...	0.7	5~50	0.15~0.7	0.5	-92	12	23	10
VYL07...	0.7	5~50	0.15~0.7	0.5	-66	21	23	10

Mini single-stage vacuum generator
VY mini single-stage vacuum generator

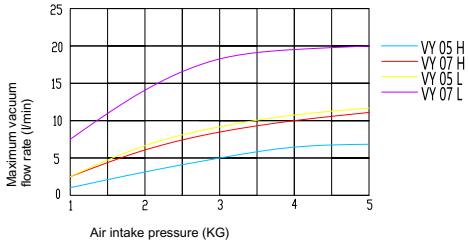
AMILA

Performance curve of VY mini single-stage vacuum generator

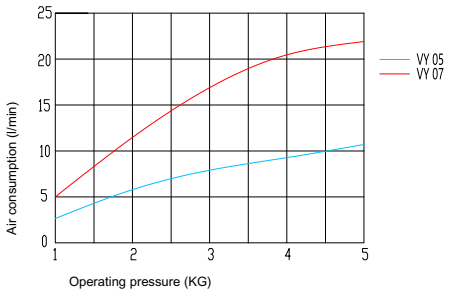
Vacuum degree at different pressure



Air consumption at different pressure

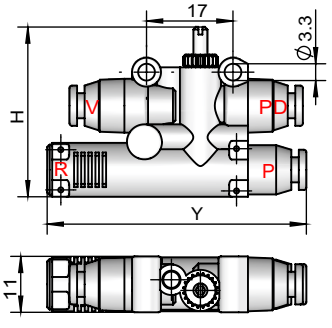


Maximum vacuum flow rate at different pressure



Design parameters of VY mini single-stage vacuum generator

VY...



P: Compressed air inlet
R: Exhaust port
V: Vacuum port
PD: Vacuum breaking port

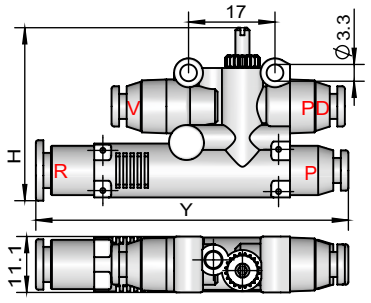
Model	Size (mm)	
	H	Y
VY H05 ☐	30	49.5
VY H07 ☐	33	51.5
VY L05 ☐	30	49.5
VY L07 ☐	33	51.5

Mini single-stage vacuum generator

VY mini single-stage vacuum generator

Design parameters of VY mini single-stage vacuum generator

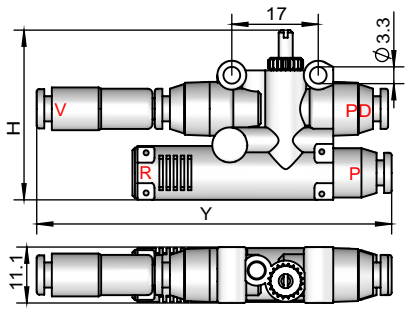
VY...J



P: Compressed air inlet
R: Exhaust port
V: Vacuum port
PD: Vacuum breaking port

Model	Size (mm)	
	H	Y
VY H05-□-J	30	61.5
VY H07-□-J	33	63.5
VY L05-□-J	30	61.5
VY L07-□-J	33	63.5

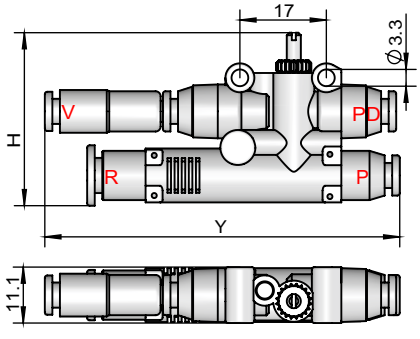
VY...F



P: Compressed air inlet
R: Exhaust port
V: Vacuum port
PD: Vacuum breaking port

Model	Size (mm)	
	H	Y
VYH05-□-F	30	65.5
VYH07-□-F	33	68.8
VYL05-□-F	30	65.5
VYL05-□-F	33	68.8

VY...JF



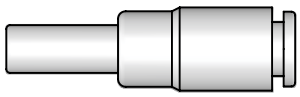
P: Compressed air inlet
R: Exhaust port
V: Vacuum port
PD: Vacuum breaking port

Model	Size (mm)	
	H	Y
VYH05-□-JF	30	65.5
VYH07-□-JF	33	68.8
VYL05-□-JF	30	65.5
VYL05-□-JF	33	68.8

Mini single-stage vacuum generator
VY mini single-stage vacuum generator

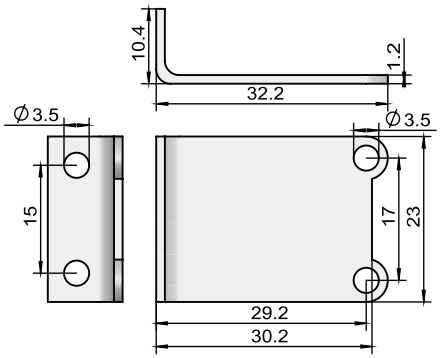
Model specifications of VY mini single-stage vacuum generator fittings

VY vacuum filter



Name	Model
Vacuum filter	VVF04
	VVF06

VY mounting bracket



Name	Model
Mounting bracket	VY-AZZJ

Name	Model	Appropriate generator
Vacuum filter	VVF04	VYH05、VYL05
Vacuum filter	VVF06	VYH07、VYL07
Mounting bracket	VY-AZZJ	VYH05、VYL05、VYH07、VYL07

Linear single-stage vacuum generator

MVR linear single-stage vacuum generator

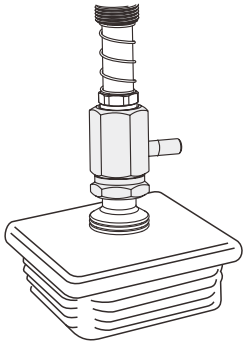
General -purpose | Sheet metal | Packaging | Injection molding



Introduction

- Directly mounted between vacuum suction cup and compressed air source
- Aluminum alloy main body, small size, light weight
- No need to connected with an external PU hose, vacuum is generated directly at the point of use
- Space saving, applicable to restricted spaces and highly dynamic movements

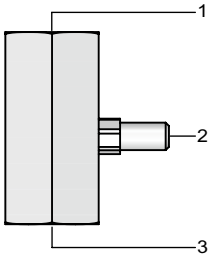
Application of MVR linear single-stage vacuum generator



Application

- The linear single-stage vacuum generator being used is directly connected between suction cup and compressed air so that evacuation time can be saved
- Handling of all types of workpieces with manipulators, industrial robots and feeder systems

System design of MVR linear single-stage vacuum generator



Structure

- (1) Compressed air inlet
- (2) Exhaust port
- (3) Vacuum port

Linear single-stage vacuum generator

MVR linear single-stage vacuum generator

MVR linear single-stage vacuum generator purchase guide

MVR - 05

① ②

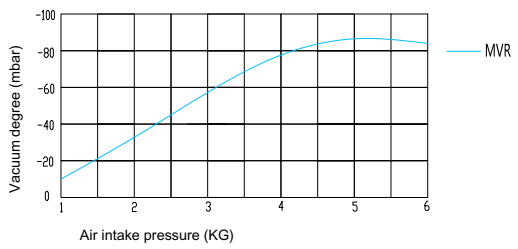
① Product series	② Nozzle diameter
MVR	05 - 0.5mm
	07 - 0.7mm
	10 - 1.0mm

Technical parameters of MVR linear single-stage vacuum generator

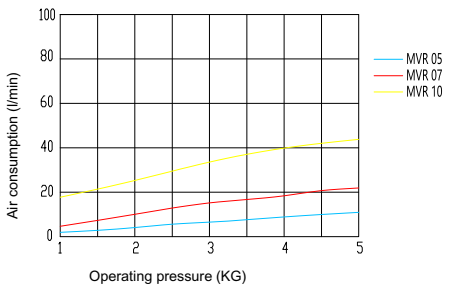
Model	Maximum vacuum degree	Maximum vacuum flow rate	Air consumption	Air intake pressure	Weight
	%	l/min	l/min	bar	g
MVR 05	87	7	12	5	15
MVR 07	90	14	21	5	15
MVR 10	90	27	44	5	15

Performance curve of MVR linear single-stage vacuum generator

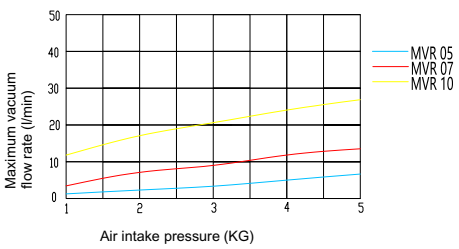
Vacuum degree at different pressure



Air consumption at different pressure



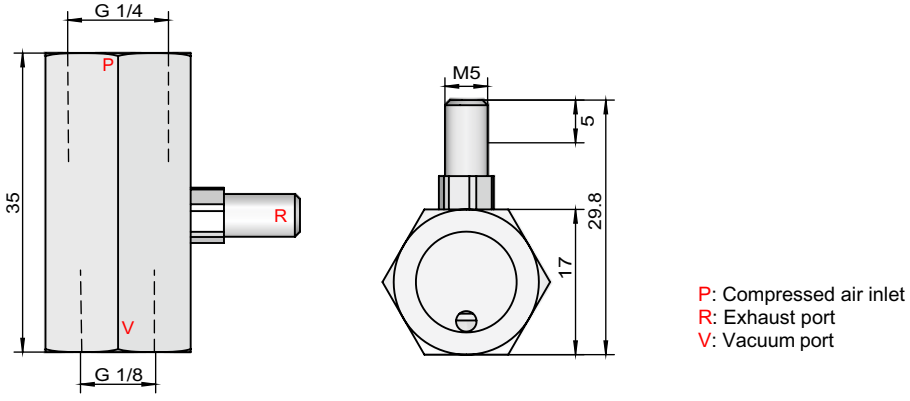
Maximum vacuum flow rate at different pressure



Linear single-stage vacuum generator

MVR linear single-stage vacuum generator

Design parameters of MVR linear single-stage vacuum generator



P: Compressed air inlet
R: Exhaust port
V: Vacuum port

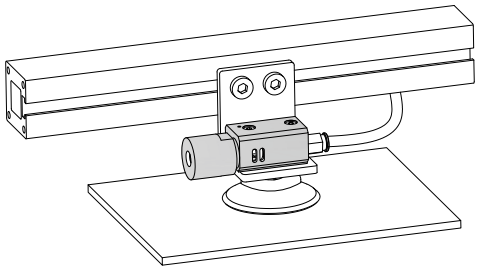
Quick evacuating vacuum generator

Quick evacuating vacuum generator MEAC- ECO

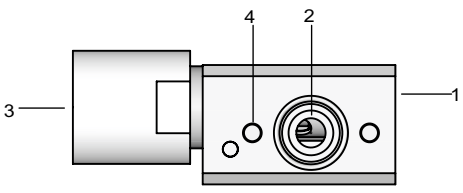
Sheet metal | Packaging | Automobile manufacture



System design of MEAC-ECO quick evacuating vacuum generator



System design of MEAC-ECO quick evacuating vacuum generator



Introduction

- Small-sized, aluminum oxide main body of the vacuum generator
- With atmosphere evacuation function to save operation cost, applicable to short operation cycle
- Various applications of independent vacuum loop system

Application

- Suitable for short-cycle applications, e.g. sheet metal machining, automotive industry, packaging machinery and industrial robots

Structure

- (1) Compressed air inlet
- (2) Vacuum port
- (3) Exhaust port
- (4) Mounting hole

Quick evacuating vacuum generator

Quick evacuating vacuum generator MEAC- ECO

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MEAC-ECO quick evacuating vacuum generator purchase guide

MEAC-ECO 10 - S

① ② ③

① Product series	② Nozzle size	③ Installation mode
MEAC-ECO	10 - 1.0mm	Null - No mounting block S - Vertical mounting block L - Lateral mounting block B-G14 - G1/4-1G vertical mounting oval block B-G18 - G1/8-G vertical mounting oval block

Models of MEAC-ECO quick evacuating vacuum generator fittings

Fitting Name	Product Model
S - Vertical mounting block	MEAC-S-G1/4-IG
L - Lateral mounting block	MEAC-L-G1/4-IG
B-G14 - Vertical mounting oval block	MEAC-B-G1/4-IG
B-G18 - Vertical mounting oval block	MEAC-B-G1/8-IG

Technical parameters of MEAC-ECO quick evacuating vacuum generator

Model	Nozzle diameter	Vacuum degree	Maximum vacuum flow rate	Compressed air consumption	Air intake pressure	Weight
	mm	%	l/min (1)	l/min (1)	bar	g
MEAC-ECO 10	1.0	85	35	47	4…6	95

Note: All flow rate values are under the conditions of pressure (ANR) of 101.3 kPa, temperature of 20 °C and humidity of 65 %.
Compressed air quality: Oil-contained or no-oil filtration class 7-4-4 (40μm) of ISO 8573-1 (1) Operating pressure: Below 4.5 bar.
(2) Hose length: Maximum: 2 m.

Suction rate (l/min) at different pressure

Model	Vacuum degree (mbar)									
	0	-50	-100	-200	-300	-400	-500	-600	-700	-800
MEAC-ECO 10	35	33	31.6	28	24.3	20.7	16.8	12	8.2	6.5

Suction time needed for the specified vacuum pressure per liter

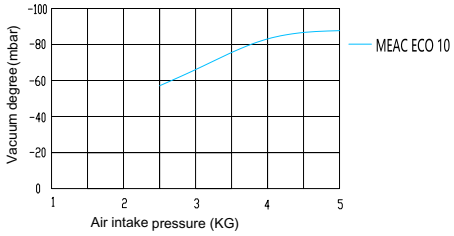
Model	Vacuum degree (mbar)								
	-50	-100	-200	-300	-400	-500	-600	-700	-800
MEAC-ECO 10	0.1	0.18	0.36	0.61	0.95	1.42	2.1	3.13	5.8

Quick evacuating vacuum generator

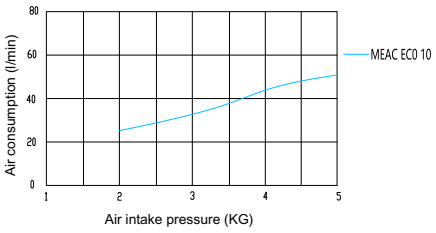
Quick evacuating vacuum generator MEAC- ECO

Performance curve of MEAC-ECO quick evacuating vacuum generator purchase guide

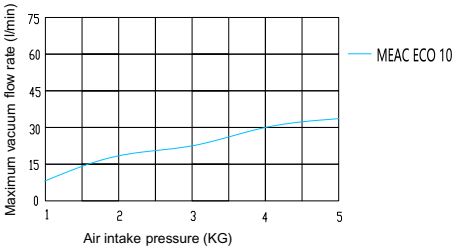
Vacuum degree at different pressure



Air consumption at different pressure

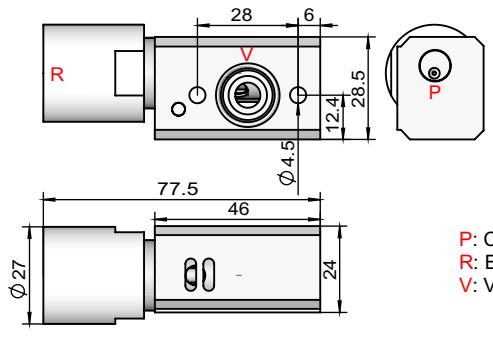


Maximum vacuum flow rate at different pressure



Design parameters of MEAC-ECO quick evacuating vacuum generator

MEAC-ECO



P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port

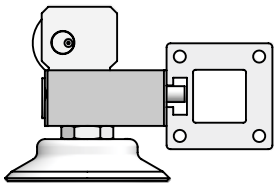
Quick evacuating vacuum generator

Quick evacuating vacuum generator MEAC- ECO

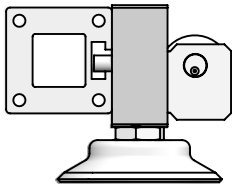
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MEAC-ECO quick evacuating vacuum generator installation illustration

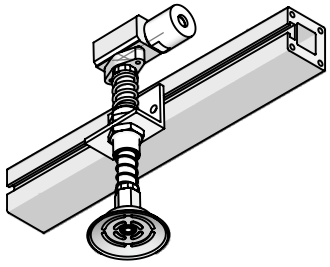
MEAC-S-G1/4-IG
Vertical installation



MEAC-L-G1/4-IG
Lateral installation



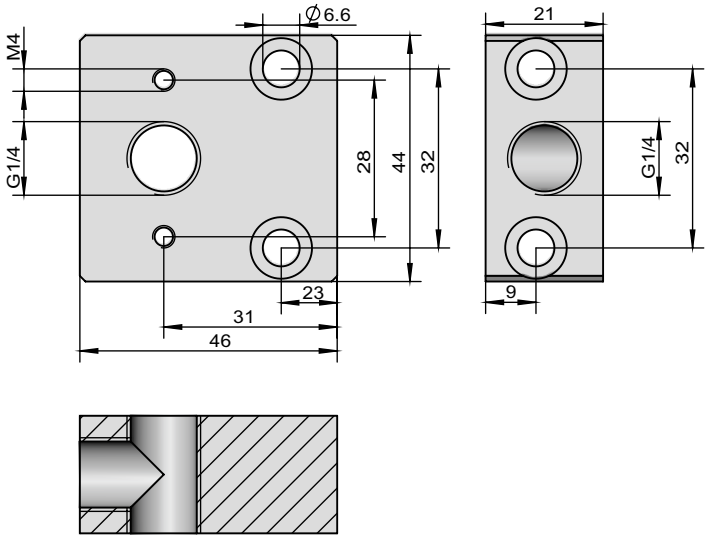
MEAC-B- ☐
Vertical installation based on oval block



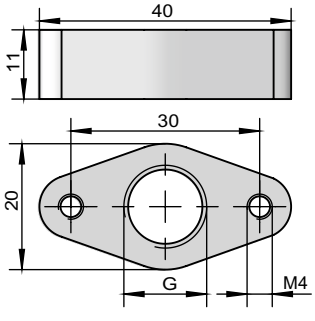
Design parameters of MEAC-ECO quick evacuating vacuum generator fittings

MEAC-L-G1/4-IG
L - Lateral mounting block

MEAC-S-G1/4-IG
S - Vertical mounting block



MEAC-B- ☐
B - Vertical mounting oval block



Model	Size (mm) G
MEAC-B-G1/8-IG	G1/8-IG
MEAC-B-G1/4-IG	G1/4-IG

Quick vacuum generator with blowing function

Quick vacuum generator with blowing function MEAC

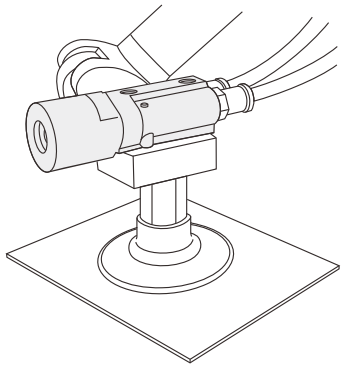
Sheet metal | Packaging | Automobile manufacture



Introduction

- Quick suction and blowing
- Plastic main body
- Optional mounting bracket
- Integrated silencer
- Extremely short operation cycle
- Small size, light weight, especially suitable for quick movement
- Directly mounted to vacuum suction cup and connector
- Reduces product noise to a great extent

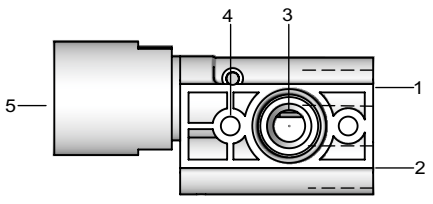
Application of MEAC quick evacuating vacuum generator



Application

- Suitable for short-cycle applications needing blowing, e.g. sheet metal machining, automotive industry, packaging machinery and industrial robots

System design of MEAC quick evacuating vacuum generator



Structure

- (1) Compressed air inlet
- (2) Back-blowing port
- (3) Vacuum port
- (4) Mounting hole
- (5) Silencer

Quick vacuum generator with blowing function

Quick vacuum generator with blowing function MEAC

AMILA

Guide to purchase of MEAC vacuum generator with blowing function

MEAC 10 - S

① ② ③

① Product series	② Nozzle size	③ Installation mode
MEAC	10 - 1.0mm	Null - No mounting block S - Vertical mounting block L - Lateral mounting block B-G14 - G1/4-1G vertical mounting oval block B-G18 - G1/8-G vertical mounting oval block

Models of fittings of MEAC vacuum generator with blowing function

Fitting Name	Product Model
S - Vertical mounting block	MEAC-S-G1/4-IG
L - Lateral mounting block	MEAC-L-G1/4-IG
B-G14 - Vertical mounting oval block	MEAC-B-G1/4-IG
B-G18 - Vertical mounting oval block	MEAC-B-G1/8-IG

Technical parameters of MEAC vacuum generator with blowing function

Model	Nozzle diameter	Vacuum degree	Maximum vacuum flow rate	Compressed air consumption	Air intake pressure	Weight
	mm	%	l/min (1)	l/min (1)	bar	g
MEAC-10	1.0	85	35	47	4…6	95

Note: All flow rate values are under the conditions of pressure (ANR) of 101.3 kPa, temperature of 20 °C and humidity of 65 %.
Compressed air quality: Oil-contained or no-oil filtration class 7-4-4 (40μm) of ISO 8573-1 (1) Operating pressure: Below 4.5 bar.
(2) Hose length: Maximum: 2 m.

Suction rate (l/min) at different pressure

Model	Vacuum degree (mbar)									
	0	-50	-100	-200	-300	-400	-500	-600	-700	-800
MEAC-10	35	32	30	27	23.5	18	12	8	4.5	2

Suction time needed for the specified vacuum pressure per liter

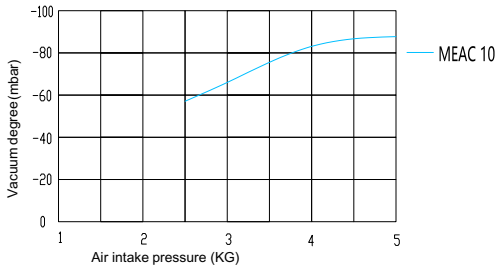
Model	Vacuum degree (mbar)								
	-50	-100	-200	-300	-400	-500	-600	-700	-800
MEAC-10	0.09	0.16	0.34	0.59	0.96	1.42	2.03	3.3	7.36

Quick vacuum generator with blowing function

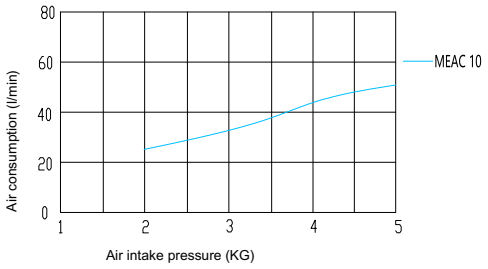
Quick vacuum generator with blowing function MEAC

Performance curve of MEAC vacuum generator with blowing function

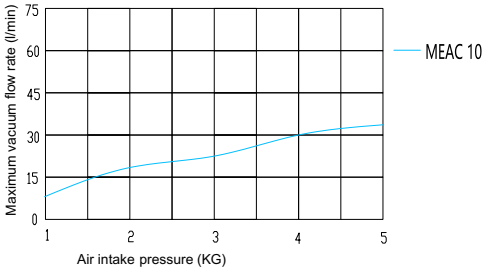
Vacuum degree at different pressure



Air consumption at different pressure

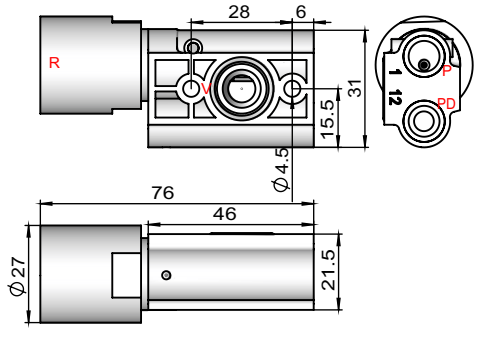


Maximum vacuum flow rate at different pressure



Design parameters of MEAC vacuum generator with blowing function

MEAC



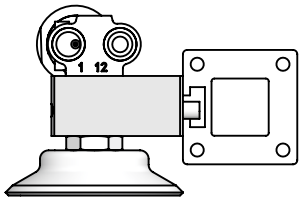
P: Compressed air inlet (G1/8)
PD:Back-blowing port (G1/4)
R: Exhaust port
V: Vacuum port

Quick vacuum generator with blowing function

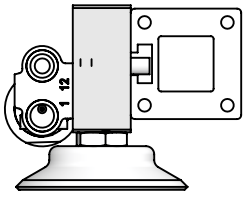
Quick vacuum generator with blowing function MEAC

Installation illustration of MEAC vacuum generator with blowing function

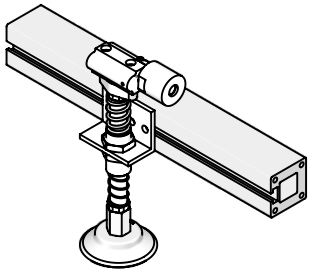
MEAC-S-G1/4-IG
Vertical installation



MEAC-L-G1/4-IG
Lateral installation

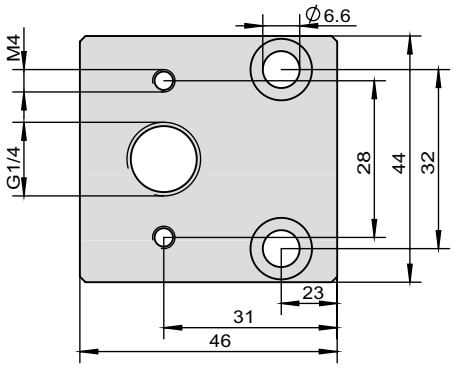


MEAC-B- ☐
Vertical installation based on oval block

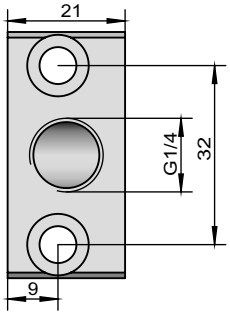


Design parameters of fittings of MEAC vacuum generator with blowing function

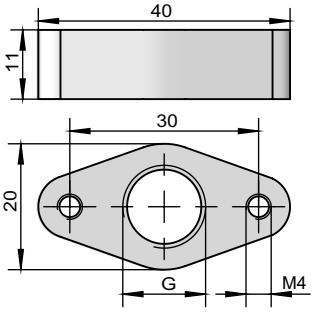
MEAC-L-G1/4-IG
L - Lateral mounting block



MEAC-S-G1/4-IG
S - Vertical mounting block



MEAC-B- ☐
B - Vertical mounting oval block



Model	Size (mm) G
MEAC-B-G1/8-IG	G1/8-IG
MEAC-B-G1/4-IG	G1/4-IG

Mini multistage vacuum generator

Mini multistage vacuum generator MN

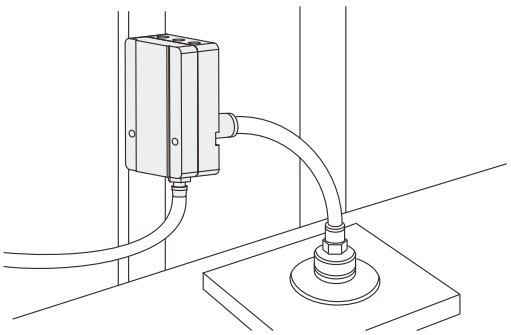
General -purpose | Packaging | Injection molding



Introduction

- Small size and light weight; can be directly connected to suction cup
- A plurality of air port specifications (A, B, C)
- Internal and external silencers available
- Large air flow generated at low air consumption
- Suitable for operating sites with installation position and weight limits
- An appropriate air port specification can be selected according to the on-site operation requirements
- Different operating conditions meeting different vacuum flow needs
- Reduces product noise to a great extent

System design of MN mini multistage vacuum generator

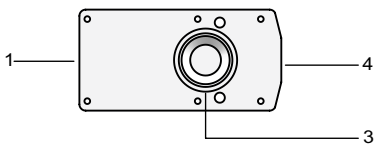


Application

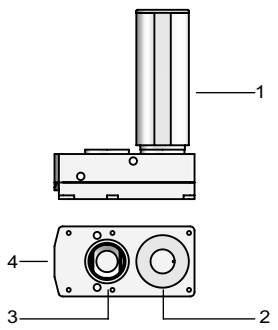
- Universal vacuum generator widely used in various vacuum systems
- Applicable to handling in technical fields of sheet metal, packaging machinery, injection molding and industrial robot

System design of MN mini multistage vacuum generator

MN □ -A/B



MN □ -C



Structure

- (1) Exhaust port
- (2) Silencer
- (3) Vacuum port
- (4) Compressed air inlet

Mini multistage vacuum generator

Mini multistage vacuum generator MN

AMILA

MN mini multistage vacuum generator purchase guide

MN 5 A

① ② ③

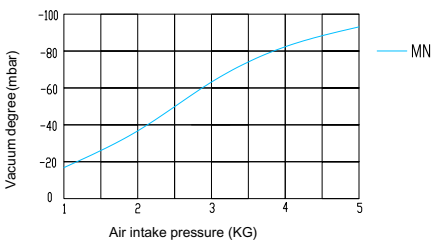
① Product series	② Vacuum degree	③ Vacuum tube type
MN	5 10 20 30	A - M5- Φ6 air supply port; G3/8 vacuum port; internal silencer B - G1/8 air supply port; G3/8 vacuum port; internal silencer C - G1/8 air supply port; G3/8 vacuum port; external silencer Note: "A" can only match the vacuum degree of 5 and 10②

Technical parameters of MN mini multistage vacuum generator

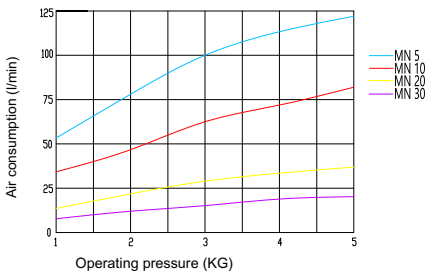
Model	Maximum vacuum degree -kpa	Maximum vacuum flow rate l/min	Air consumption l/min
MN 5-□	85	37	12~20
MN 10-□	85	75	28~42
MN 20-□	85	150	55~85
MN 30-□	85	220	80~125

Performance curve of MN mini multistage vacuum generator

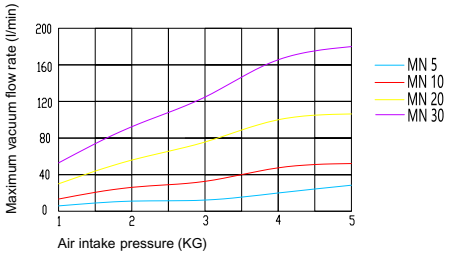
Vacuum degree at different pressure



Air consumption at different pressure



Maximum vacuum flow rate at different pressure

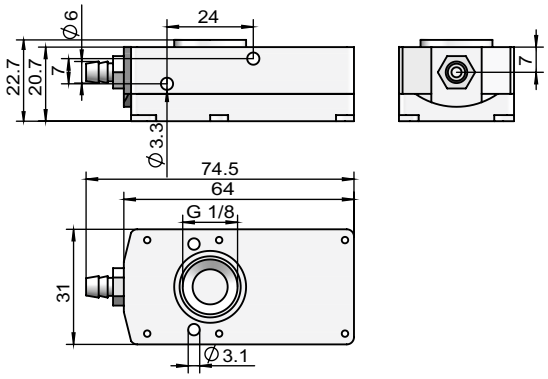


Mini multistage vacuum generator

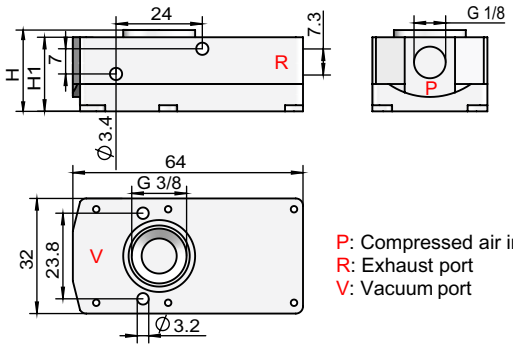
Mini multistage vacuum generator MN

Design parameters of MN mini multistage vacuum generator

MN □-A



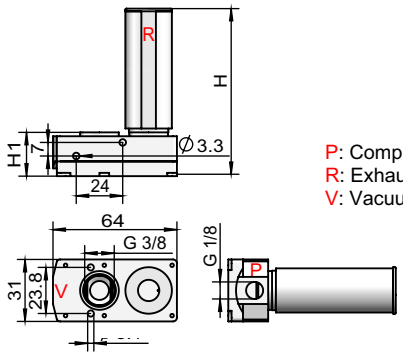
MN □-B



P: Compressed air inlet
R: Exhaust port
V: Vacuum port

Model	Size (mm)	
	H	H1
MN5-B	22.7	20.7
MN10-B	22.7	20.7
MN20-B	30	28
MN30-B	37	35

MN □-C



P: Compressed air inlet
R: Exhaust port
V: Vacuum port

Model	Size (mm)	
	H	H1
MN5-C	87	20.7
MN10-C	87	20.7
MN20-C	94.2	28
MN30-C	101.5	35

Multistage vacuum generator

Multistage vacuum generator M2010

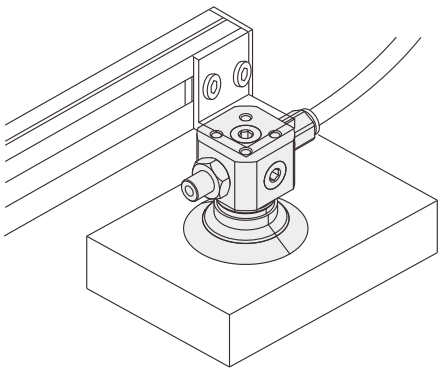
General -purpose | Sheet metal | 3C product | Packaging



Introduction

- Quick suction speed, high vacuum degree and low gas consumption
- Small size, simple structure, easy installation
- 3 vacuum ports with G1/8 thread
- Efficient and energy-saving vacuum generator offers maximum vacuum degree quickly
- Applicable to sites with space and weight limits; easy installation
- Space-saving—can be directly connected to vacuum suction cup

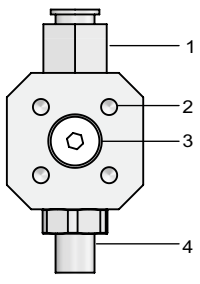
Application of the M2010 multistage vacuum generator



Application

- Operating sites with limited installation space
- Applicable to operating conditions that require high evacuation speed and low air consumption

System design of M2010 multistage vacuum generator



Structure

- (1) Compressed air inlet
- (2) Mounting hole (M4)
- (3) Vacuum port
- (4) Exhaust port

Multistage vacuum generator
Multistage vacuum generator M2010

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M2010 multistage vacuum generator purchase guide

M-2010 - SI02-2

① ②

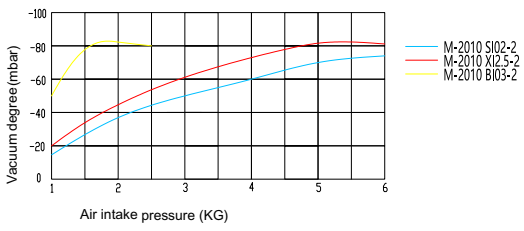
①Product series	②Vacuum tube specification
M-2010	SI02 －2 (-75kPa) XI2.5 －2 (-92kPa) BI03 －2 (-83kPa)

Technical parameters of M2010 multistage vacuum generator

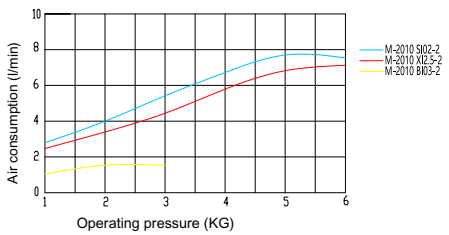
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
M-2010 SI02-2	75	16.8	7.2	6	20
M-2010 XI2.5-2	92	14.4	7.8	5	20
M-2010 BI03-2	83	13.8	8.4	1.8	20

Performance curve of M2010 multistage vacuum generator

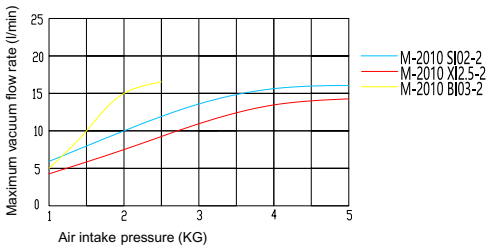
Vacuum degree at different pressure



Air consumption at different pressure

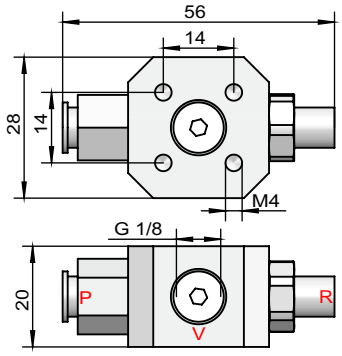


Maximum vacuum flow rate at different pressure



Multistage vacuum generator
Multistage vacuum generator M2010

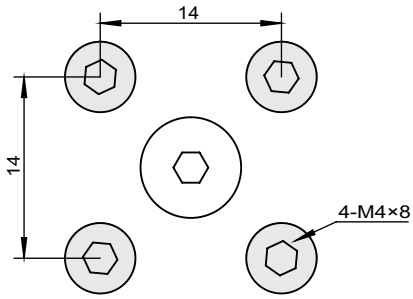
Design parameters of M2010 multistage vacuum generator



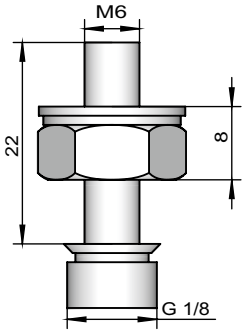
P: Compressed air inlet
R: Exhaust port
V: Vacuum port

Installation accessories of M2010 multistage vacuum generator

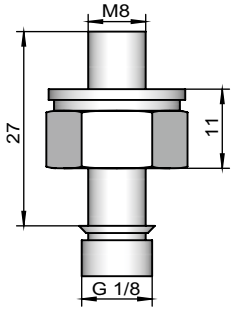
MAZ-C4



MAZ-D6



MAZ-E8



Name	Model
M2010 installation accessories	MAZ-C4
	MAZ-D6
	MAZ-E8

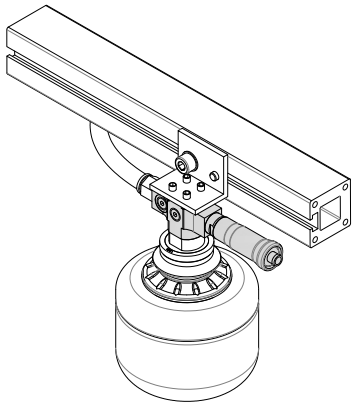
Multistage vacuum generator

Multistage vacuum generator M3010

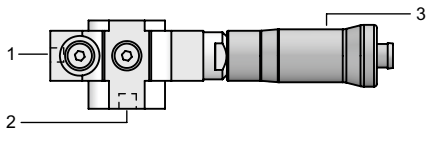
General -purpose | Sheet metal | 3C product | Packaging



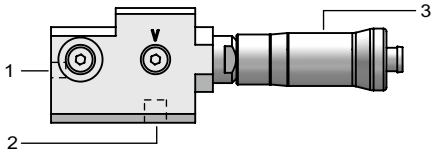
Application of the M3010 multistage vacuum generator



System design of M3010 multistage vacuum generator



M3010



M3010-B

Introduction

- Quick suction speed, high vacuum degree and low gas consumption
- The multistage vacuum generator can be mounted directly to any suction cup with a G3/8 male threaded port
- Equipped with a two-stage or three-stage vacuum tube, which can be customized to meet your specific needs The SI vacuum tube can provide a high vacuum flow rate and the XI vacuum tube a high vacuum degree.
- The fast vacuum breaking vacuum generator has a fast vacuum breaking speed and a short working cycle
- The efficient and energy-saving vacuum generator can quickly generate a vacuum of the maximum vacuum degree to effectively compensate the leakage
- Optional external silencer

Application

- The multistage vacuum generator is suitable for handling cartons, packaging materials and breathable materials
- Applicable to operating conditions that require a high vacuum flow rate, high evacuation speed and low gas consumption

Structure

- (1) Compressed air inlet
- (2) Vacuum port
- (3) Silencer

Multistage vacuum generator
Multistage vacuum generator M3010

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M3010 multistage vacuum generator purchase guide

M-3010 - B - SI08-2 - S

① ② ③ ④

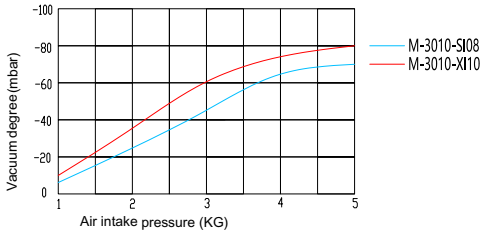
① Product series	② Type	③ Vacuum tube specification	④ Silencer
M-3010	Null - Basic type B - Fast vacuum breaking type	SI08-2 SI08-3 XI10-2 XI10-3	Null - No silencer S - ZSC08 silencer

Technical parameters of M3010 multistage vacuum generator

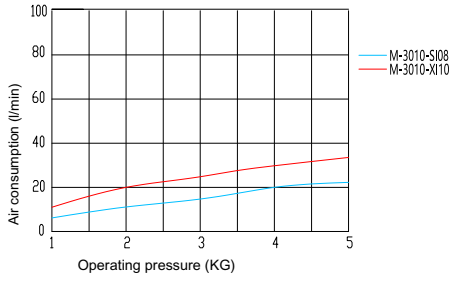
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
M-3010-□-SI08-2-□	75	46	26.4	4...6	70
M-3010-□-SI08-3-□	75	80	26.4	4...6	70
M-3010-□-XI10-2-□	94	44	32.4	4...6	70
M-3010-□-XI10-3-□	94	87	32.4	4...6	70

Performance curve of M3010 multistage vacuum generator

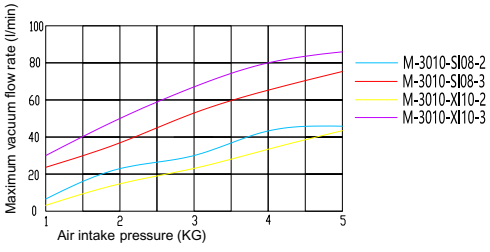
Vacuum degree at different pressure



Air consumption at different pressure



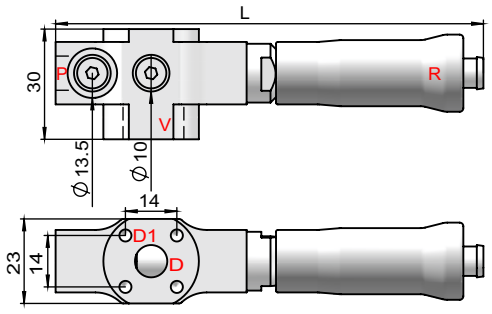
Maximum vacuum flow rate at different pressure



Multistage vacuum generator
Multistage vacuum generator M3010

Design parameters of M3010 multistage vacuum generator

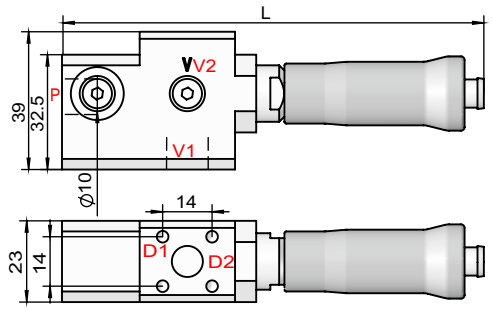
M-3010...



P: Compressed air inlet (G1/8)
R: Exhaust port
V: Vacuum port (G3/8)
D: Mounting hole (M4)
D1: Mounting hole (M4)

Model	Size (mm) L
M-3010- □-2-□	113.5
M-3010- □-3-□	134.5

M-3010-B...

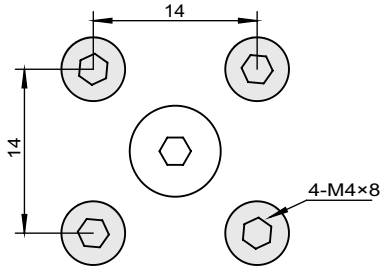


P: Compressed air inlet (G1/8)
R: Exhaust port
V1: Vacuum port (G3/8)
V2: Vacuum port (G1/8)
D1: Mounting hole (M4)
D2: Mounting hole (G1/8)

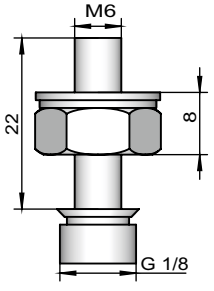
Model	Size (mm) L
M-3010-B- □-2-□	119.5
M-3010-B- □-3-□	140.5

Installation accessories of M3010 multistage vacuum generator

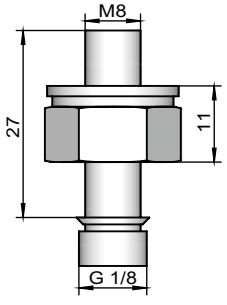
MAZ-C4



MAZ-D6



MAZ-E8



Name	Model
M3010 installation accessories	MAZ-C4
	MAZ-D6
	MAZ-E8

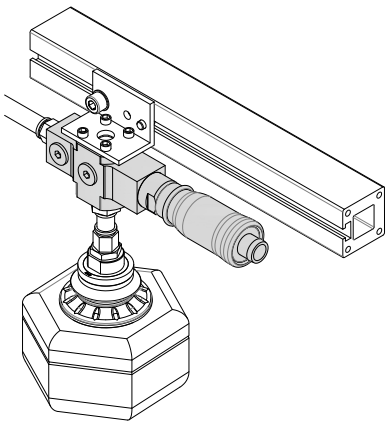
Multistage vacuum generator

Multistage vacuum generator M5010

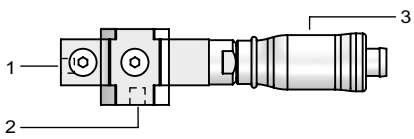
General -purpose | Sheet metal | 3C product | Packaging



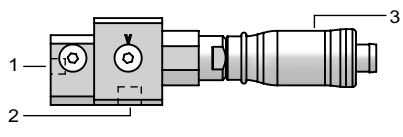
Application of the M5010 multistage vacuum generator



System design of M5010 multistage vacuum generator



M5010



M5010-B

Introduction

- Quick suction speed, high vacuum degree and low gas consumption
- The multistage vacuum generator can be mounted directly to any suction cup with a G1/2 male threaded port
- Equipped with a two-stage or three-stage vacuum tube, which can be customized to meet your specific needs The SI vacuum tube can provide a high vacuum flow rate and the XI vacuum tube a high vacuum degree.
- The fast vacuum breaking vacuum generator has a fast vacuum breaking speed and a short working cycle
- The efficient and energy-saving vacuum generator can quickly generate a vacuum of the maximum vacuum degree to effectively compensate the leakage
- Optional external silencer
- Higher vacuum flow rate in comparison with M3010 vacuum generator

Application

- The multistage vacuum generator is suitable for handling cartons, packaging materials and breathable materials
- Applicable to operating conditions that require a high vacuum flow rate, high evacuation speed and low gas consumption

Structure

- (1) Compressed air inlet
- (2) Vacuum port
- (3) Silencer

Multistage vacuum generator
Multistage vacuum generator M5010

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M5010 multistage vacuum generator purchase guide

M-5010 - B - SI32-2 - S

① ② ③ ④

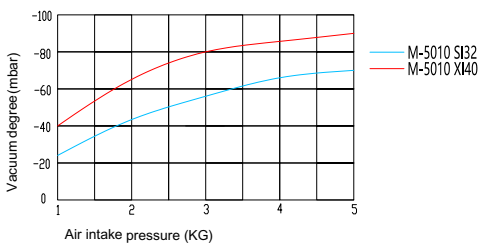
① Product series	② Type	③ Vacuum tube specification	④ Silencer
M-5010	Null - Basic type B - Fast vacuum breaking type	SI32-2 SI32-3 XI40-2 XI40-3	Null - No silencer S - ZSC16 silencer

Technical parameters of M5010 multistage vacuum generator

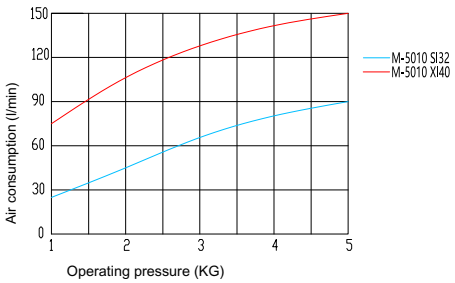
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
M-5010-□-SI32-2-□	75	198	105	4...6	190
M-5010-□-SI32-3-□	75	360	105	4...6	190
M-5010-□-XI40-2-□	95	168	139	4...6	190
M-5010-□-XI40-3-□	95	372	139	4...6	190

Performance curve of M5010 multistage vacuum generator

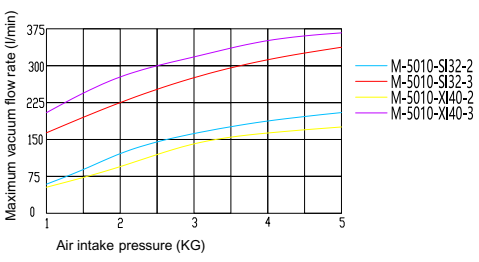
Vacuum degree at different pressure



Air consumption at different pressure



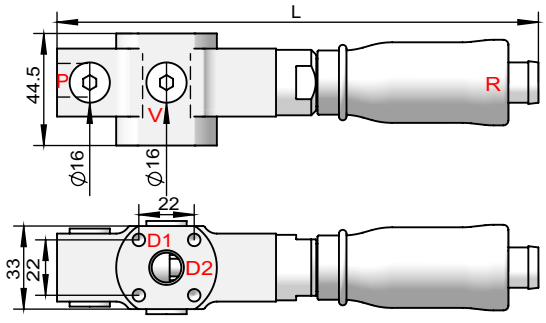
Maximum vacuum flow rate at different pressure



Multistage vacuum generator
Multistage vacuum generator M5010

Design parameters of M5010 multistage vacuum generator

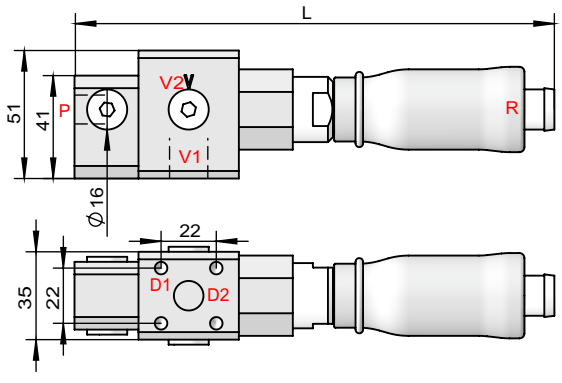
M5010...



P: Compressed air inlet (G1/4)
R: Exhaust port
V: Vacuum port (G1/2)
D1: Mounting hole (M6)
D2: Mounting hole (G1/2)

Model	Size (mm) L
M-5010-□-2-□	191
M-5010-□-3-□	247

M5010-B...

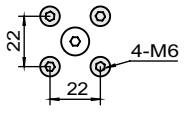


P: Compressed air inlet (G1/4)
R: Exhaust port
V1: Vacuum port (G3/8)
V2: Vacuum port (G1/4)
D1: Mounting hole (M6)
D2: Mounting hole (G1/4)

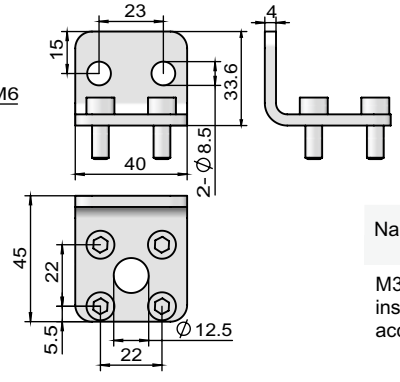
Model	Size (mm) L
M-5010-□-2-□	191
M-5010-□-3-□	247

Installation accessories of M5010 multistage vacuum generator

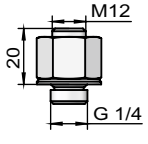
MAZ-F6



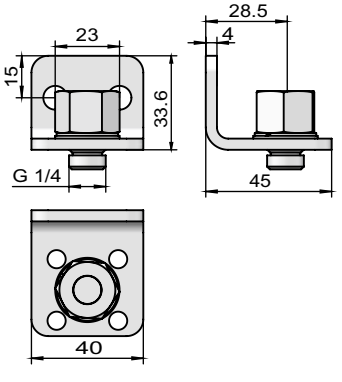
MAZ-G6L



MAZ-H12



MAZ-K12L



Name	Model
M3010 installation accessories	MAZ-F6
	MAZ-G6L
	MAZ-H12
	MAZ-K12L

Vacuum generator (with back-blowing function)

MSV vacuum generator

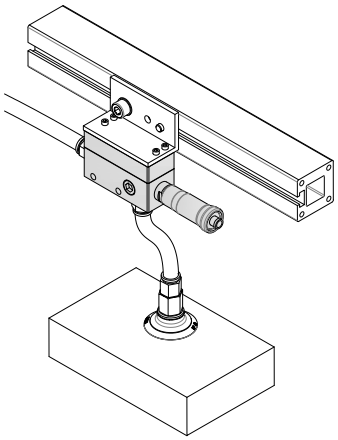




Introduction

- Integrated with a fast vacuum breaking back-blowing device without any external drive
- Easy connection without any additional vacuum breaking accessory
- Can release the product quickly
- Reduces product noise to the greatest extent

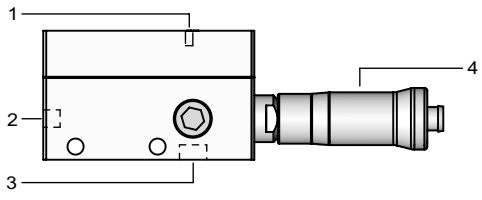
Application of MSV vacuum generator



Application

- Applicable to autonomously and quickly releasing workpieces without external drive
- Applicable to quickly gripping and releasing workpieces; suitable for applications needing light-weight equipment

System design of MSV vacuum generator



Structure

- (1) Flow breakage adjusting screw
- (2) Compressed air inlet
- (3) Vacuum port
- (4) Silencer

Vacuum generator (with back-blowing function)

AMILA

MSV vacuum generator

MSV vacuum generator purchase guide

MSV 25 - 2

① ② ③

① Product series	② Vacuum tube type	③ Number of vacuum tube stages
MSV	10	2
	25	3

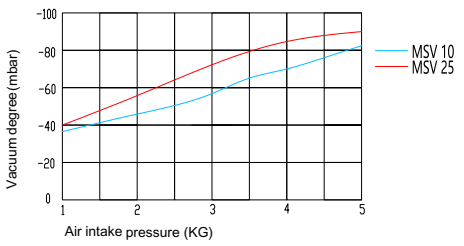
Note: When "10" is selected, there will be no need to make a choice for ③the number of vacuum tube stages.

Technical parameters of MSV vacuum generator

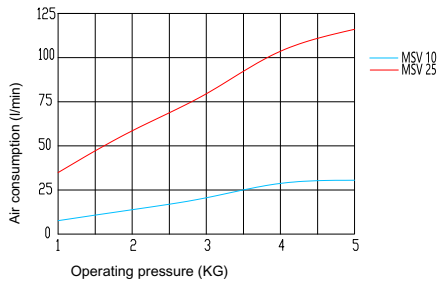
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
MSV10					
MSV25-2	94	87	32	4...6	350
MSV25-3	95	168	139	4...6	490
	95	372	139	4...6	490

Performance curve of MSV vacuum generator

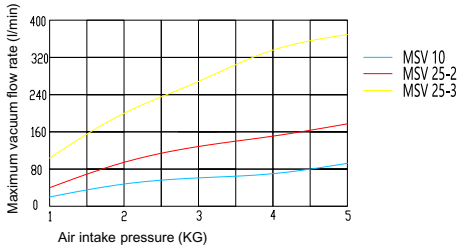
Vacuum degree at different pressure



Air consumption at different pressure



Maximum vacuum flow rate at different pressure

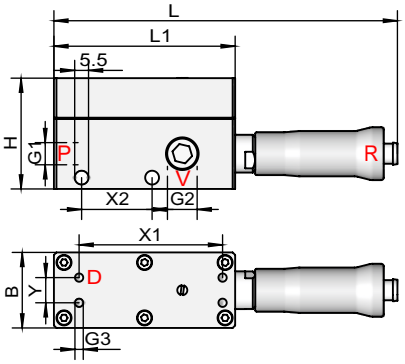


Vacuum generator (with back-blowing function)

MSV vacuum generator

Design parameters of MSV vacuum generator

MSV...

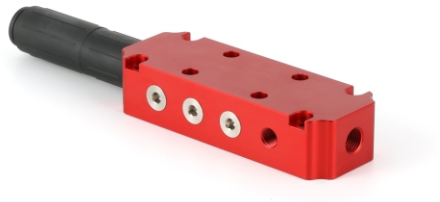


P: Compressed air inlet
R: Exhaust port
V: Vacuum port
D: Mounting hole

Model	Size (mm)									
	B	H	L	L1	X1	X2	Y	G1	G2	G3
MSV10	30	44	136.5	72	57	28	10	G1/8-IG	G1/4-IG	M4-IG
MSV25-2	38	59	188.5	95	80	40	15	G1/4-IG	G3/8-IG	M5-IG
MSV25-3	38	59	232.5	95	80	40	15	G1/4-IG	G3/8-IG	M5-IG

Multistage vacuum generator
MBV multistage vacuum generator

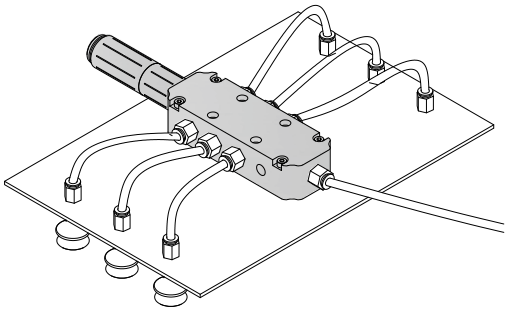
Sheet metal | 3C product | Packaging | Solar energy



Introduction

- Quick suction speed, high vacuum degree and low gas consumption
- Internal vacuum tube
- Small size, simple structure
- 6 vacuum ports with G1/4 thread
- Efficient and energy-saving vacuum generator offers maximum vacuum degree quickly
- Can be connected to multiple vacuum suction cups
- Less product noise

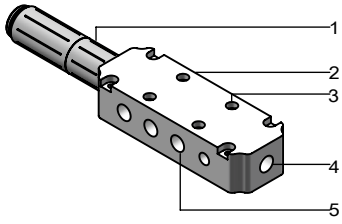
Application of MBV multistage vacuum generator



Application

- Suitable for applications needing multiple suction cups to be mounted directly
- Applicable to operating conditions that require high evacuation speed and low air consumption

System design of MBV multistage vacuum generator



Structure

- (1) Silencer
- (2) Base
- (3) φ4.2 mounting hole
- (4) Compressed air inlet
- (5) Vacuum port

Multistage vacuum generator
MBV multistage vacuum generator

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MBV multistage vacuum generator purchase guide

MBV - SI32-3

① ②

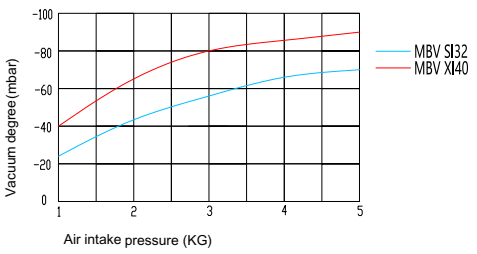
① Product series	② Vacuum tube specification
MBV	SI32-3 XI40-3

Technical parameters of MBV multistage vacuum generator

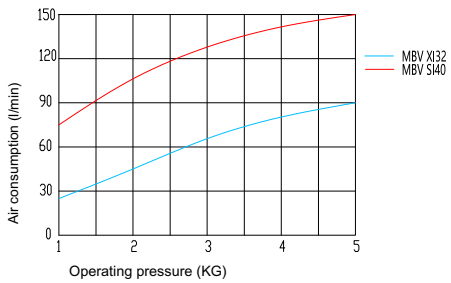
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
MBV-SI32-3	75	360	105	4...6	420
MBV-XI40-3	95	372	139	4...6	420

Performance curve of MBV multistage vacuum generator

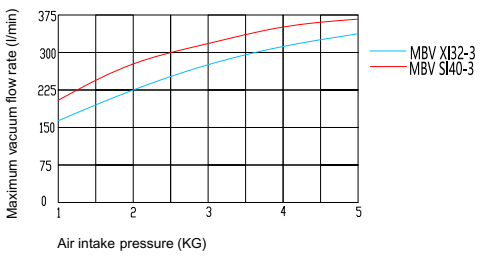
Vacuum degree at different pressure



Air consumption at different pressure



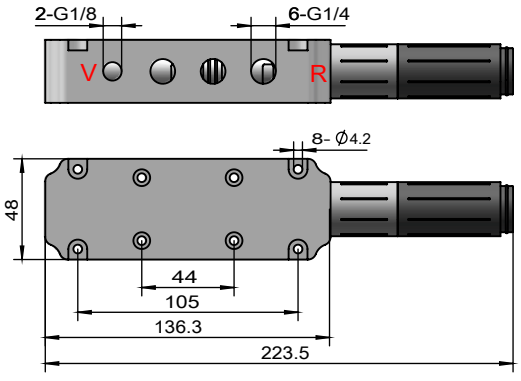
Maximum vacuum flow rate at different pressure

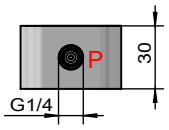


Multistage vacuum generator
MBV multistage vacuum generator

Design parameters of MBV multistage vacuum generator

MBV-□





P: Compressed air inlet
R: Exhaust port
V: Vacuum port

Multistage vacuum generator
MC multistage vacuum generator


Sheet metal


Packaging


Wood

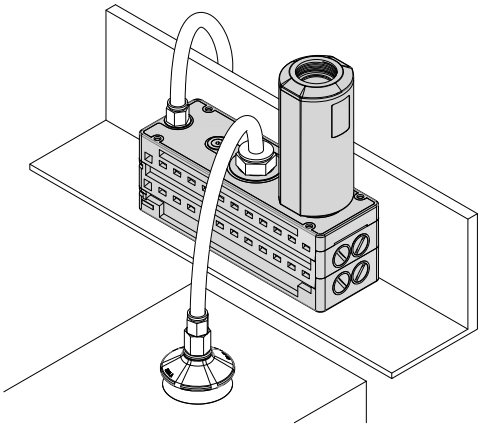

Composite material



Introduction

- Efficient and energy-saving multistage nozzle designed, large vacuum flow
- Internal vacuum tubes mounted can be overlaid one by one
- A plurality of vacuum port specifications
- Quick evacuation in a range of low vacuum degree, less cost, shorter working cycle
- Different operating conditions meeting different vacuum flow needs
- Less compressed air consumption during handling of non-breathable workpieces

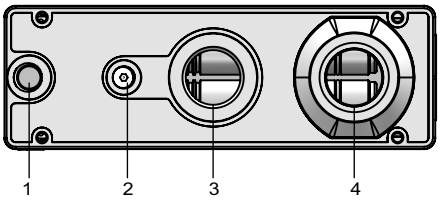
Application of MC multistage vacuum generator



Application

- The multistage vacuum generator is suitable for handling cartons, packaging materials and breathable materials
- Applicable to operating conditions that require a high vacuum flow rate, high evacuation speed and low gas consumption

System design of MC multistage vacuum generator



Structure

- (1) Compressed air inlet
- (2) Vacuum port
- (3) Vacuum port
- (4) Silencer

Multistage vacuum generator
MC multistage vacuum generator

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MC multistage vacuum generator purchase guide

MC 25 - SI32 G3/4

① ② ③ ④

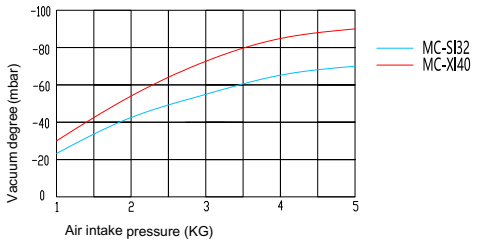
① Product series	② Vacuum tube specification	③ Vacuum tube type	④ Vacuum port
MC	25 50 75 100 125 150	SI32 XI40	G3/4 G1/2

Technical parameters of MC multistage vacuum generator

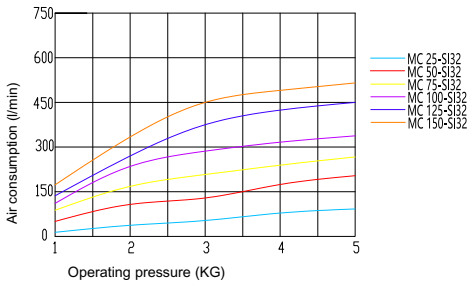
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
MC 25-SI32□	75	360	105	4...6	550
MC 25-XI40□	95	372	139	4...6	550
MC 50-SI32□	75	720	210	4...6	550
MC 50-XI40□	95	744	278	4...6	550
MC 75-SI32□	75	1080	315	4...6	785
MC 75-XI40□	95	1116	417	4...6	785
MC 100-SI32□	75	1440	420	4...6	785
MC 100-XI40□	95	1488	556	4...6	785
MC 125-SI32□	75	1800	525	4...6	1020
MC 125-XI40□	95	1860	695	4...6	1020
MC 150-SI32□	75	2160	630	4...6	1020
MC 150-XI40□	95	2232	834	4...6	1020

Performance curve of MBC multistage vacuum generator

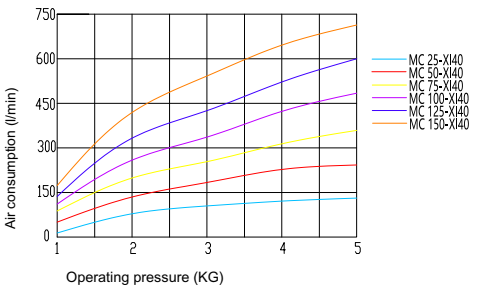
Vacuum degree at different pressure



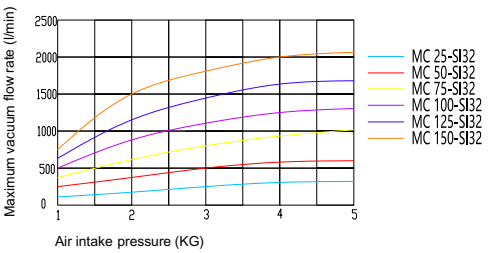
Air consumption at different pressure



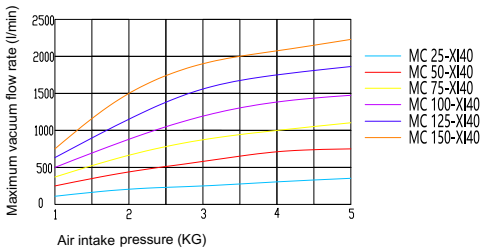
Air consumption at different pressure



Maximum vacuum flow rate at different pressure



Maximum vacuum flow rate at different pressure

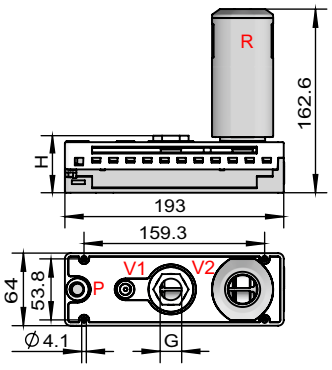


Multistage vacuum generator
MC multistage vacuum generator

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Design parameters of MC multistage vacuum generator

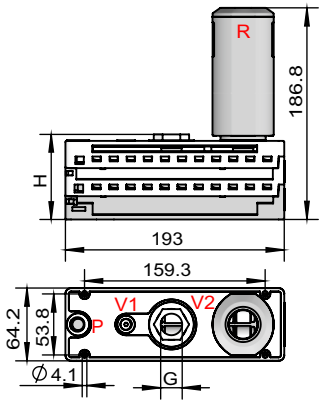
MC25/50...



P: Compressed air inlet
R: Exhaust port
V1: Vacuum port
V2: Vacuum port

Model	Size (mm)	
	H	G
MC 25...G1/2	51.3	G1/2
MC 25...G3/4	45.3	G3/4
MC 50...G1/2	51.3	G1/2
MC 50...G3/4	45.3	G3/4

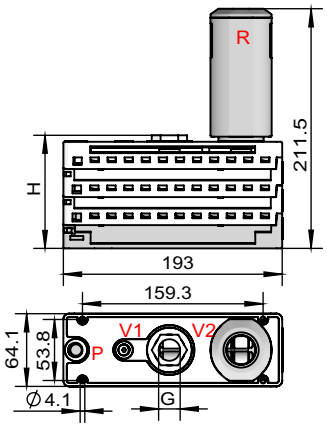
MC75/100...



P: Compressed air inlet
R: Exhaust port
V1: Vacuum port
V2: Vacuum port

Model	Size (mm)	
	H	G
MC 75...G1/2	76.2	G1/2
MC 75...G3/4	70.2	G3/4
MC 100...G1/2	76.2	G1/2
MC 100...G3/4	70.2	G3/4

MC125/150...



P: Compressed air inlet
R: Exhaust port
V1: Vacuum port
V2: Vacuum port

Model	Size (mm)	
	H	G
MC 125...G1/2	100.9	G1/2
MC 125...G3/4	94.9	G3/4
MC 150...G1/2	100.9	G1/2
MC 150...G3/4	94.9	G3/4

Large flow type vacuum generator

Large flow type vacuum generator M6010

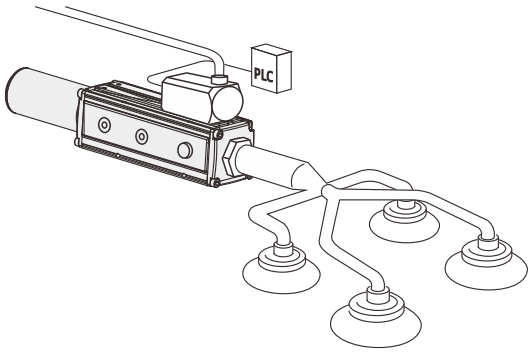
General -purpose



Introduction

- The internal vacuum tube significantly improves energy consumption ratio
- Appropriate connection specification can be used according to different vacuum flow requirements
- Easy installation, maintenance and repair; replacement can be carried out by customer
- A plurality of port specifications can meet different customization requirements
- Multistage vacuum generator casing made of aluminum alloy

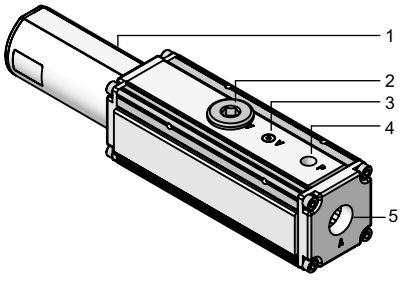
Application of M6010 large flow type vacuum generator



Application

- Multi-station vacuum gripping
- Vacuum evacuation in the pharmaceutical and food industries

System design of M6010 large flow type vacuum generator



Structure

- (1) Silencer
- (2) Vacuum port
- (3) Vacuum detection port
- (4) Compressed air inlet
- (5) Vacuum port

Large flow type vacuum generator

Large flow type vacuum generator M6010

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M6010 large flow type vacuum generator purchase guide

M-6010 - SI32 3×1

① ② ③

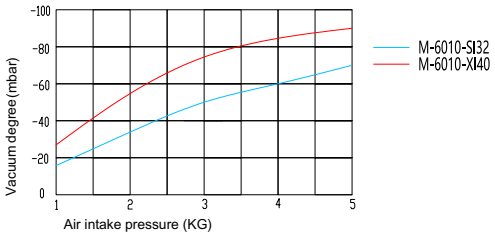
① Product series	②Vacuum tube type	③Number of vacuum tube stages × quantity
M-6010	SI32	3×1
	XI40	3×2
		3×3
		3×4

Technical parameters of M6010 large flow type vacuum generator

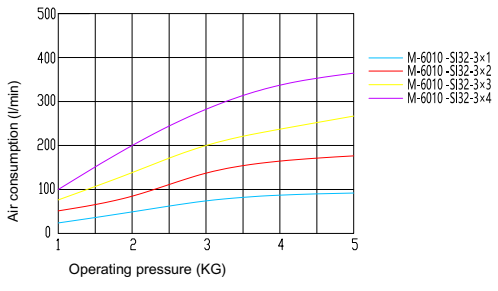
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
M-6010-SI32-3×1	75	360	105	4...6	1700
M-6010-SI32-3×2	75	720	210	4...6	1700
M-6010-SI32-3×3	75	1080	315	4...6	1700
M-6010-SI32-3×4	75	1440	420	4...6	1700
M-6010-XI40-3×1	95	372	139	4...6	1700
M-6010-XI40-3×2	95	744	278	4...6	1700
M-6010-XI40-3×3	95	1116	417	4...6	1700
M-6010-XI40-3×4	95	1488	556	4...6	1700

Performance curve of M6010 large flow type vacuum generator

Vacuum degree at different pressure



Air consumption at different pressure

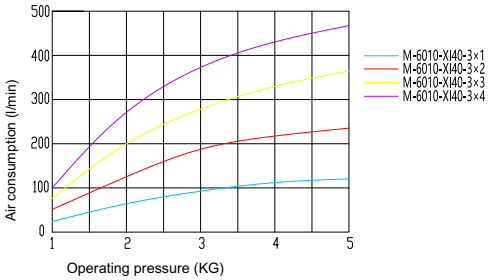


Large flow type vacuum generator

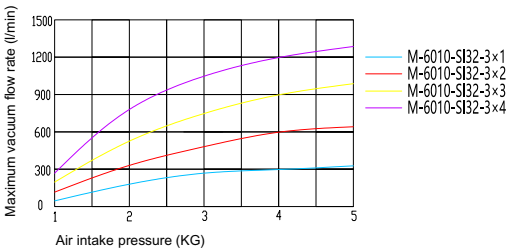
Large flow type vacuum generator M6010

Performance curve of M6010 large flow type vacuum generator

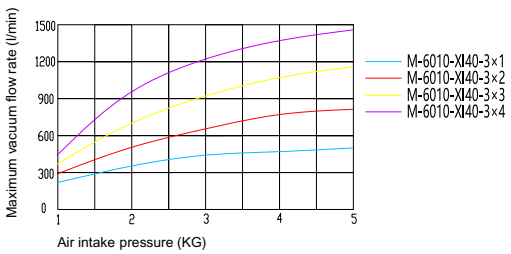
Air consumption at different pressure



Maximum vacuum flow rate at different pressure

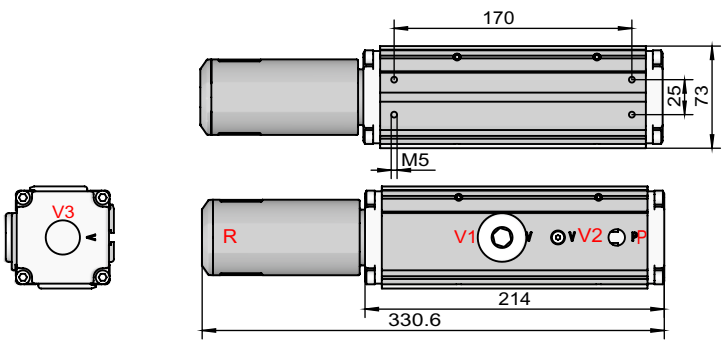


Maximum vacuum flow rate at different pressure



Design parameters of M6010 large flow type vacuum generator

M6010

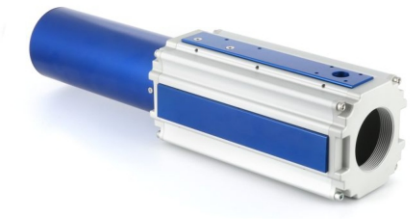


P: Compressed air inlet (G1/4)
R: Exhaust port
V1: Vacuum port (G3/4)
V2: Vacuum port (G1/8)
V3: Vacuum port (G3/4)

Large flow type vacuum generator

Large flow type vacuum generator M6040

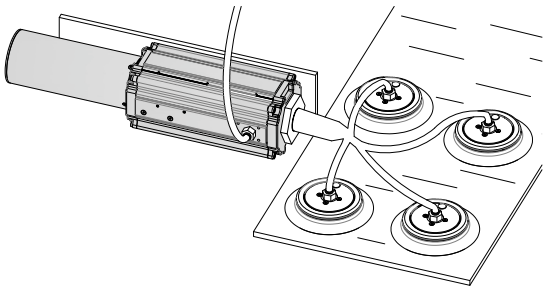
General -purpose | 3C product | Packaging | Injection molding



Introduction

- Vacuum port with G2 1/2 thread
- A plurality of specifications can be customized to meet your specific needs. The SI vacuum tube can provide a high vacuum flow rate and the XI vacuum tube a high vacuum degree.
- Easy installation, easy maintenance; replacement can be carried out by customer
- Higher vacuum flow rate in comparison with M6010 vacuum generator

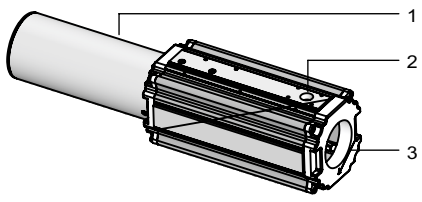
Application of M6040 large flow type vacuum generator



Application

- Multi-station vacuum gripping
- Vacuum evacuation in the pharmaceutical and food industries

System design of M6040 large flow type vacuum generator



Structure

- (1) Silencer
- (2) Compressed air inlet
- (3) Vacuum port

Large flow type vacuum generator

Large flow type vacuum generator M6040

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M6040 large flow type vacuum generator purchase guide

M-6040 - SI32 3×5

① ② ③

① Product series	②Vacuum tube type	③Number of vacuum tube stages × quantity		
M-6040	SI32	3×5	3×9	3×13
	XI40	3×6	3×10	3×14
		3×7	3×11	3×15
		3×8	3×12	3×16

Technical parameters of M6040 large flow type vacuum generator

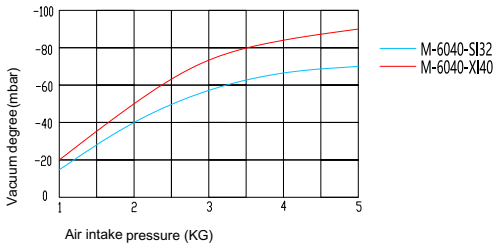
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
M-6040-SI32-3X5	75	1800	525	4...6	4900
M-6040-SI32-3X6	75	2160	630	4...6	4900
M-6040-SI32-3X7	75	2520	735	4...6	4900
M-6040-SI32-3X8	75	2880	840	4...6	4900
M-6040-SI32-3X9	75	3240	945	4...6	4900
M-6040-SI32-3X10	75	3600	1050	4...6	4900
M-6040-SI32-3X11	75	3960	1155	4...6	4900
M-6040-SI32-3X12	75	4320	1260	4...6	4900
M-6040-SI32-3X13	75	4680	1365	4...6	4900
M-6040-SI32-3X14	75	5040	1470	4...6	4900
M-6040-SI32-3X15	75	5400	1575	4...6	4900
M-6040-SI32-3X16	75	5760	1680	4...6	4900
M-6040-XI40-3X5	95	1860	695	4...6	4900
M-6040-XI40-3X6	95	2232	834	4...6	4900
M-6040-XI40-3X7	95	2604	973	4...6	4900
M-6040-XI40-3X8	95	2976	1112	4...6	4900
M-6040-XI40-3X9	95	3348	1251	4...6	4900
M-6040-XI40-3X10	95	3720	1390	4...6	4900
M-6040-XI40-3X11	95	4092	1529	4...6	4900
M-6040-XI40-3X12	95	4464	1668	4...6	4900
M-6040-XI40-3X13	95	4836	1807	4...6	4900
M-6040-XI40-3X14	95	5208	1946	4...6	4900
M-6040-XI40-3X15	95	5580	2085	4...6	4900
M-6040-XI40-3X16	95	5952	2224	4...6	4900

Large flow type vacuum generator

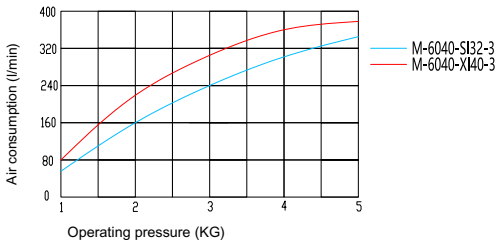
Large flow type vacuum generator M6040

Performance curve of M6040 large flow type vacuum generator

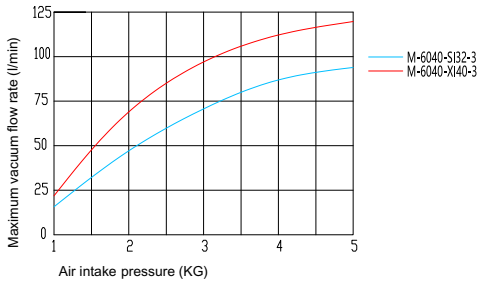
Vacuum degree at different pressure



Air consumption at different pressure



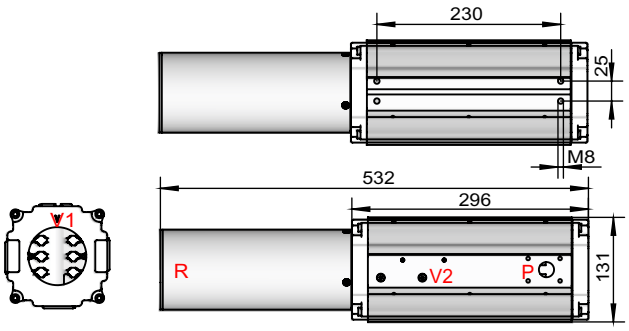
Maximum vacuum flow rate at different pressure



Note: This is the value for a single vacuum tube. For multiple tubles, please calculate the flow by summing up the values.

Design parameters of M6040 large flow type vacuum generator

M6040...

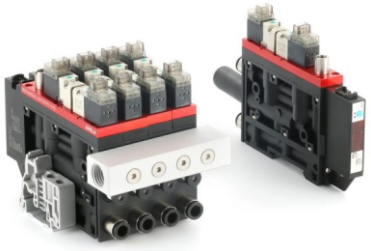


P: Compressed air inlet (G1/2)
R: Exhaust port
V1: Vacuum port (G2" 1/2)
V2: Vacuum port (G1/4)

Integrated vacuum generator

Integrated vacuum generator MS2

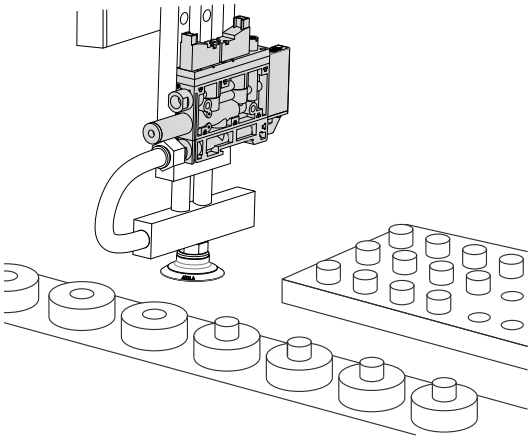
3C product | Packaging | Injection molding



Introduction

- Used in electronic, electronic engineering, packaging, robotic and automotive industries
- "RD" represents energy-saving vacuum switch. The air consumption of energy-saving vacuum generator is reduced by 90%. (Compared with the non-energy-saving type) the energy-saving digital vacuum switch turns off air supply after the set vacuum value is reached.
- Integrated DIN rail installed and concentrated air intake

Application of MS2 integrated vacuum generator

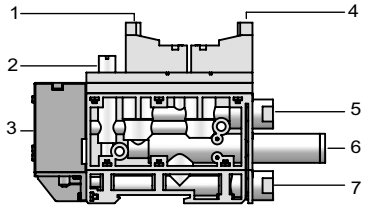


Application

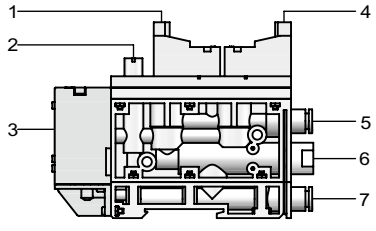
- Integrated vacuum generator used to handle airtight and slightly breathable workpieces
- Generation and monitoring of vacuum in automatic systems
- Used for robot handling and linear shafts
- Fast-paced gripping and releasing
- Used for systems needing workpieces to be gripped very quickly in limited space
- Usually used for automatic handling of small parts

System design of MS2 integrated vacuum generator

Integrated vacuum generator type



Integrated vacuum pump type



Structure

- (1) Vacuum generation control valve
- (2) Flow breakage adjusting nut
- (3) Digital vacuum switch
- (4) Vacuum breakage control valve
- (5) Compressed air inlet
- (6) Silencer/vacuum port
- (7) Vacuum port

Integrated vacuum generator

Integrated vacuum generator MS2

MS2 integrated vacuum generator purchase guide

MS2 10 S NC D VN B - 2 - Q - 06

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

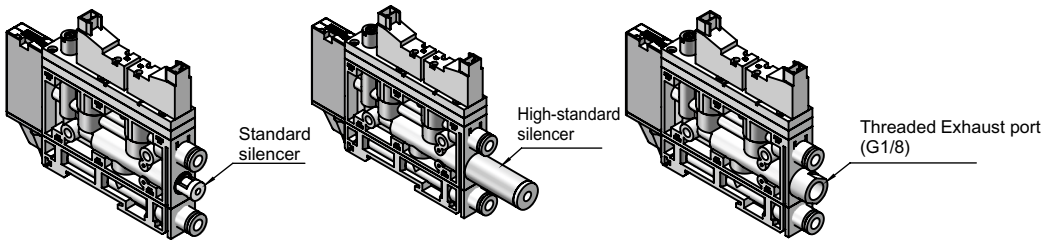
① Product series	② Nozzle size	③ Vacuum degree at rated air supply pressure	④ Initial state of suction valve	⑤ One-way valve
MS2	07 10 15 XI10 PI12 — Vacuum generator type P - Vacuum pump	S - 0.5 MPa R - 0.35 MPa Corresponding vacuum degree: -85 Kpa / -85 Kpa	NC - Normally closed NO - Normally open	Null - No one-way valve D - One-way valve Note: The one-way valve has a vacuum holding function.

Note: When 15 and X110 can only match S. and P112 can only match R. When P (vacuum pump) is selected, "③Vacuum degree at rated air supply pressure" and "⑦Silencing selection" will be disabled.

⑥ Vacuum switch	⑦ Silencing selection	⑧ Number of products combined	⑨ Concentrated air supply	⑩ Vacuum port size
Null - No vacuum switch VN—NPN digital vacuum switch VP—PNP digital vacuum switch RN—NPN energy-saving vacuum switch RP—PNP energy-saving vacuum switch Note: RN and RP must match "D" of the item "⑤ One-way valve".	Null—Standard silencing B - High-standard silencing C - Threaded Exhaust port (G1/8) Note: Nozzle 15 can only match B or C	Null - Single 2 - Duplex 3-Triple 4-Quadruple 5-Quintuple 6-Sixtuple 7-Septuple 8-Octuple	Null - Concentraded air supply not needed Q - Concentrated air supply Note: When the vacuum generator type is selected, there will be concentrated air supply. When the vacuum pum type is selected, there will be concentrated compressed air supply and concentrated vacuum supply.	04 - φ4mm 06 - φ6mm 08 - φ8mm Note: When vacuum port 08 is selected, only ② nozzle size 15 can be selected. When vacuum port 04 is selected, ②nozzle size 15 will be disabled.

As shown in the figure:

Note: When "Null" is selected, there will be no need to make a choice for "⑨Concentrated air supply".



Integrated vacuum generator

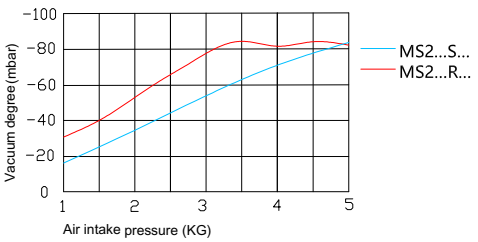
Integrated vacuum generator MS2

Technical parameters of MS2 integrated vacuum generator

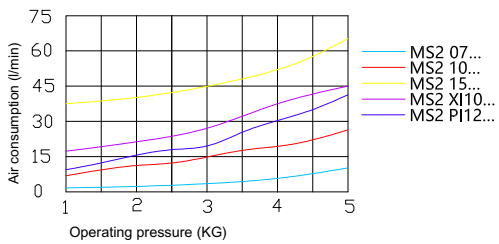
Model	Nozzle size mm	Vacuum degree %	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure bar	Weight g
MS2 07 S ···	0.7	85	11	22.5	5	130
MS2 07 R ···	0.7	85	9	22.5	3.5	130
MS2 10 S ···	1.0	85	27	44	5	130
MS2 10 R ···	1.0	85	25	44	3.5	130
MS2 15 S ···	1.5	85	63	100	5	130
MS2 XI10 S ···	0.8	85	45	28	5	130
MS2 PI12 R ···	0.9	85	41	32	3.5	130
MS2 P···	-	-	44	-	5	130

Performance curve of MS2 integrated vacuum generator

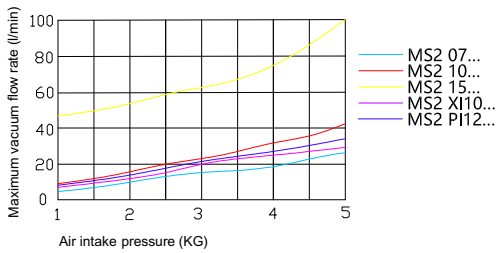
Vacuum degree at different pressure



Air consumption at different pressure



Maximum vacuum flow rate at different pressure



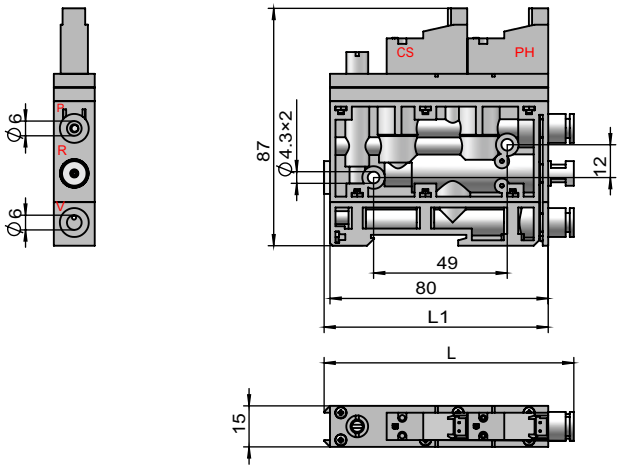
Integrated vacuum generator

Integrated vacuum generator MS2

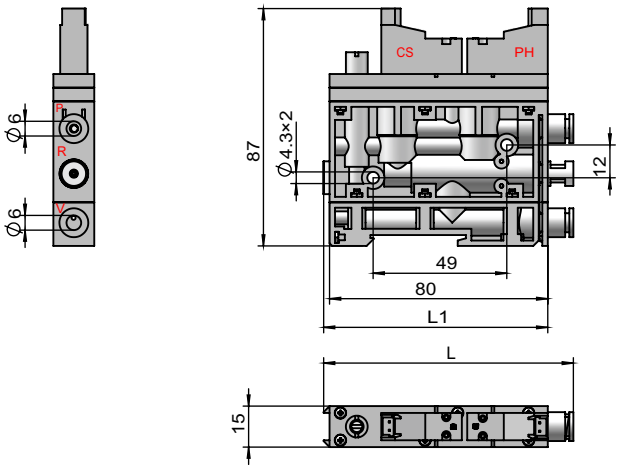
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Design parameters of MS2 integrated vacuum generator

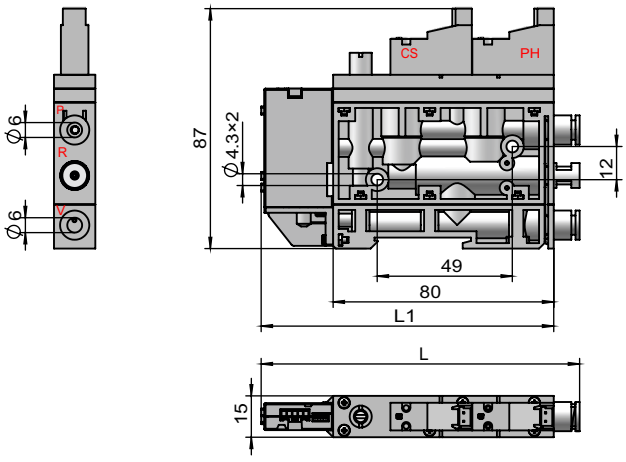
MS2...NC...standard silencer



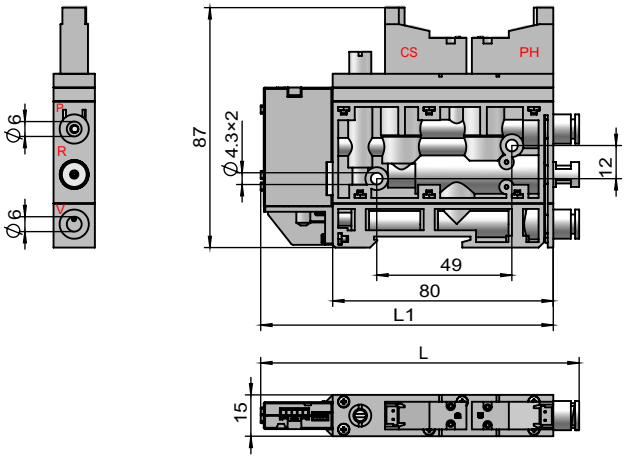
MS2...NO...standard silencer



MS2...NC...V/R standard silencer



MS2...NC...V/R standard silencer



P: Compressed air inlet
R: Exhaust port
V: Vacuum port
CS: Vacuum generation control valve
PH: Vacuum breakage control valve

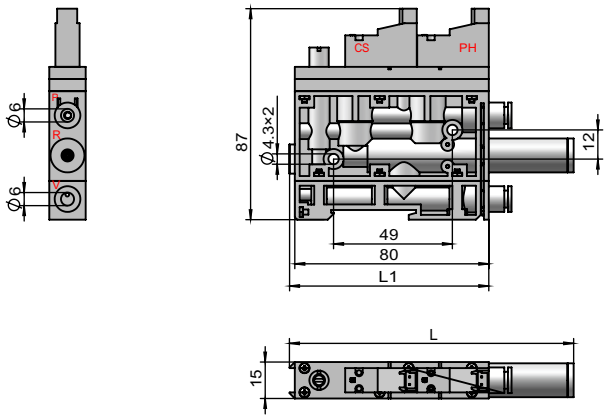
Model	Size (mm)	
	L	L1
MS2...NC/NO...(standard silencer)	93.5	83
MS2...NC/NO...V/R(standard silencer)	115.5	105

Integrated vacuum generator

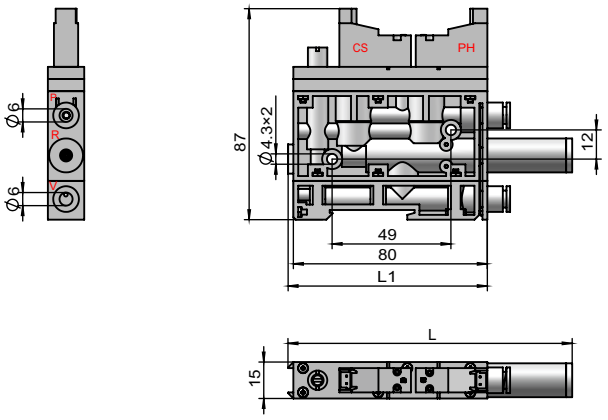
Integrated vacuum generator MS2

Design parameters of MS2 integrated vacuum generator

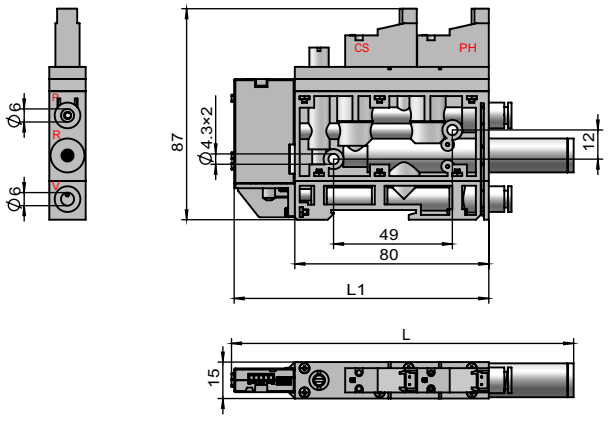
MS2...NC...(Type-B standard silencer)



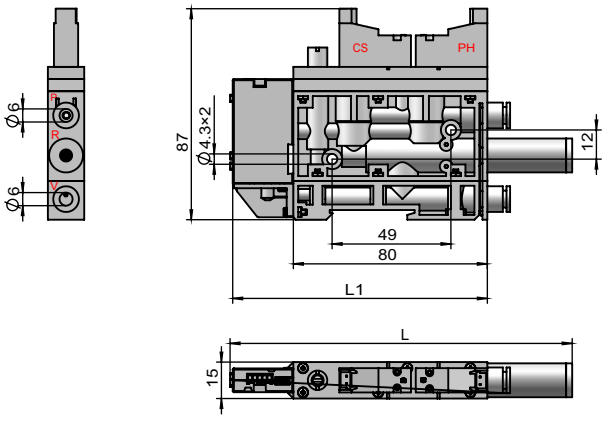
MS2...NO...(Type-B standard silencer)



MS2...NC...V/R (Type-B high-standard silencer)



MS2...NO...V/R (Type-B high-standard silencer)



P: Compressed air inlet
R: Exhaust port
V: Vacuum port
CS: Vacuum generation control valve
PH: Vacuum breakage control valve

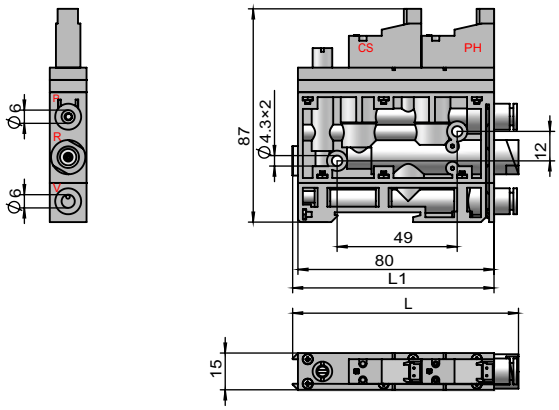
Model	Size (mm)	
	L	L1
MS2...NC/NO...(high-standard silencer)	119.1	83
MS2...NC/NO...V/R(high-standard silencer)	141.1	105

Integrated vacuum generator

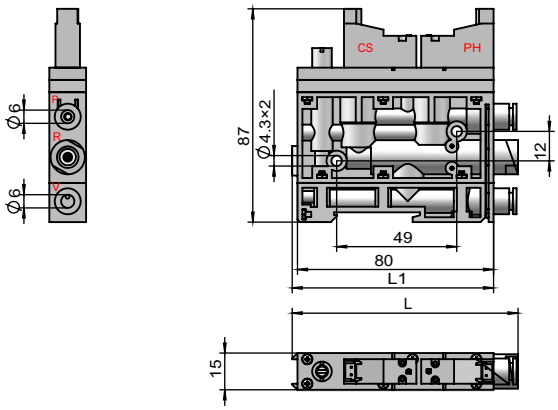
Integrated vacuum generator MS2

Design parameters of MS2 integrated vacuum generator

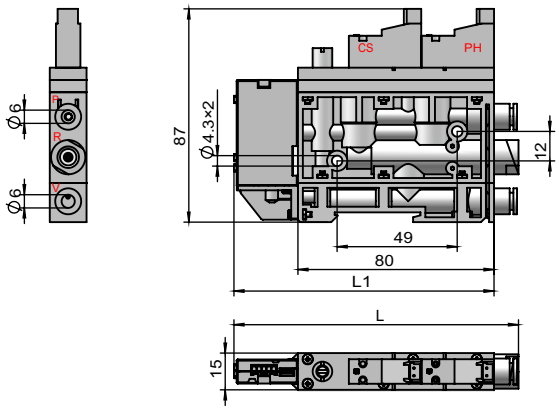
MS2...NC...(Type-C G1/8 threaded Exhaust port)



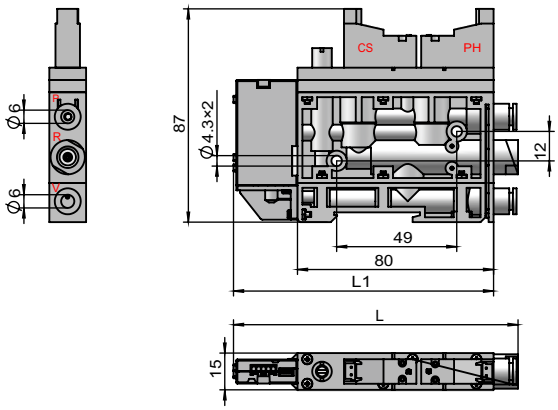
MS2...NO...(Type-C G1/8 threaded Exhaust port)



MS2...NC...V/R (Type-C G1/8 threaded Exhaust port)



MS2...NO...V/R (Type-C G1/8 threaded Exhaust port)



P: Compressed air inlet
R: Exhaust port
V: Vacuum port
CS: Vacuum generation control valve
PH: Vacuum breakage control valve

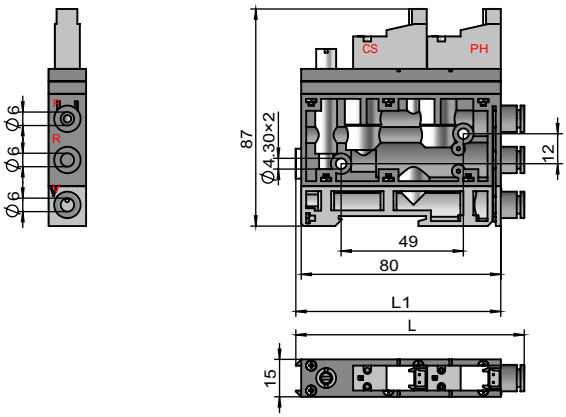
Model	Size (mm)	
	L	L1
MS2...NC/NO...(G1/8 threaded Exhaust port)	94.1	83
MS2...NC/NO...V/R(G1/8 threaded Exhaust port)	116.1	105

Integrated vacuum generator

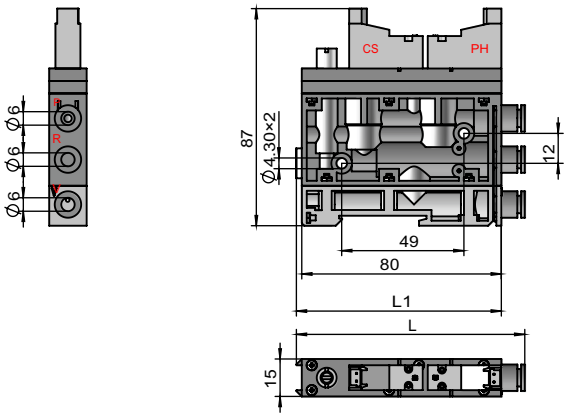
Integrated vacuum generator MS2

Design parameters of MS2 integrated vacuum generator

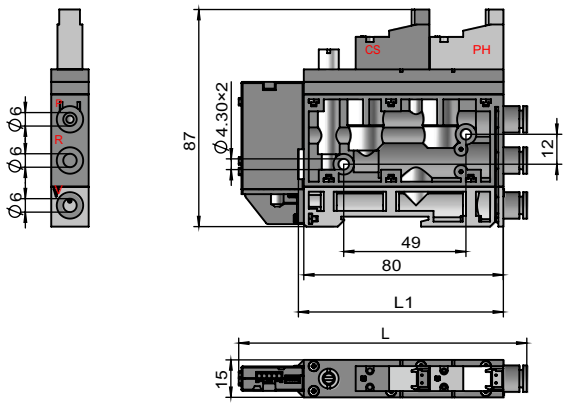
MS2 P NO...



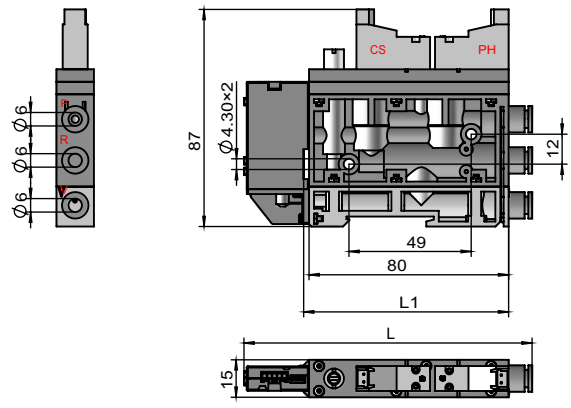
MS2 P NC...



MS2 P NO...V/R



MS2 P NC...V/R



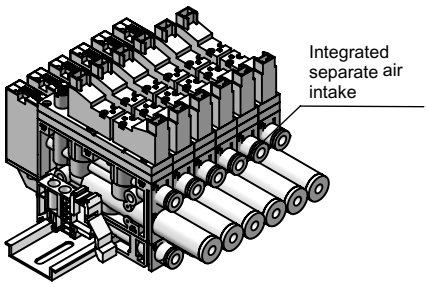
P: Compressed air inlet
R: Exhaust port
V: Vacuum port
CS: Vacuum generation control valve
PH: Vacuum breakage control valve

Model	Size (mm)	
	L	L1
MS2PNO/NC...	94.1	83
MS2PNO/NC...V/R	116.1	105

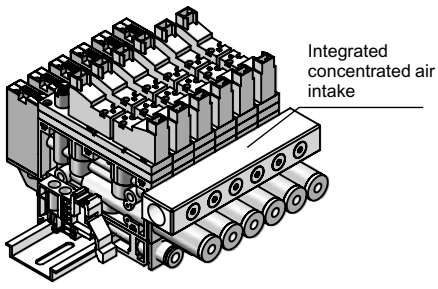
Integrated vacuum generator
Integrated vacuum generator MS2

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Installation illustration of MS2 integrated vacuum generator

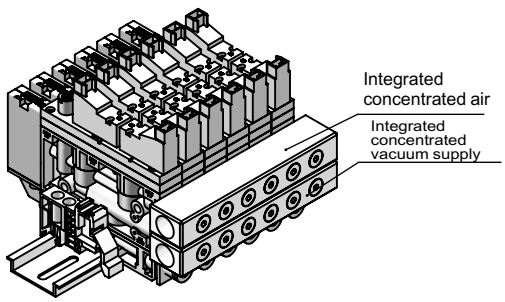


Separate air intake in combination



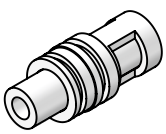
Concentrated air intake in combination

Installation illustration of MS2 integrated vacuum generator



Combined vacuum pump type

Models of MS2 integrated vacuum generator fittings and elements



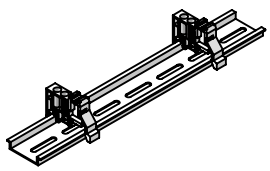
Standard
silencer type



High-standard
silencer



G1/8 threaded Exhaust port



Rail diagram

Model	Standard silencer (null)	High-standard silencer (B)	Threaded Exhaust port (C)	Solenoid valve terminal cable	Energy-saving plug-in cable of solenoid valve	Vacuum switch
MS2□S/RNO/NC ...	MS2-XYQ	MS2-GXYXYQ	MS2- LWPQ G1/8	KC-25	-	MP-30
MS2□S/RNO/NC □ V...	MS2-XYQ	MS2-GXYXYQ	MS2- LWPQ G1/8	KC-25	-	MP-30
MS2□S/RNO/NC □ R...	MS2-XYQ	MS2-GXYXYQ	MS2- LWPQ G1/8	-	MP40-KCJNX	MP-40
MS2 P NO/NC □ V...	-	-	-	KC-25	-	MP-30
MS2 P NO/NC □ R...	-	-	-	KC-25	MP40-KCJNX	MP-40

Name	Model	Length
Rail mounting (2-3pcs)	MS2-2-D	Length: 130mm
Rail mounting (4-5pcs)	MS2-4-D	Length: 165mm
Rail mounting (6-7pcs)	MS2-6-D	Length: 200mm
Rail mounting (8pcs)	MS2-8-D	Length: 235mm

Integrated vacuum generator

Integrated vacuum generator MS3

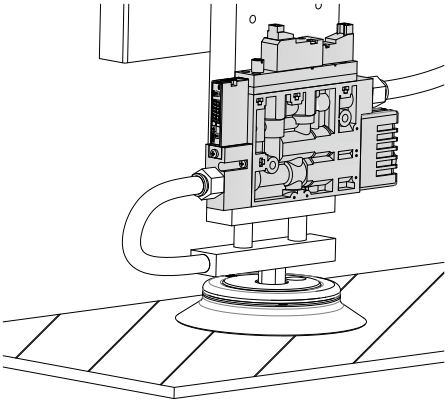
General -purpose | Sheet metal | Packaging | Robot



Introduction

- The integrated vacuum generator is applicable to handling non-breathable workpieces.
- Applicable to handling metal sheets, packaging machinery and industrial robots in the automotive industry
- Suitable for very short workpiece suction and release cycles (with a strong blowing function to enable the workpiece to be released quickly)
- High vacuum breakage capacity (optional)

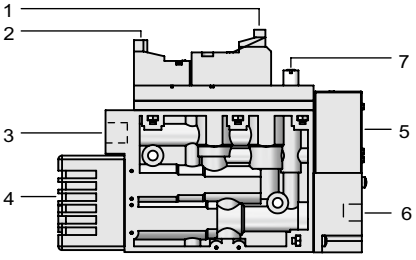
Application of MS3 integrated vacuum generator



Application

- Fast-paced cycles, applications needing fast release, e.g. automotive stamping line

System design of MS3 integrated vacuum generator



Structure

- (1) Suction valve
- (2) Blowing valve
- (3) Compressed air inlet
- (4) Silencer
- (5) Digital vacuum switch
- (6) Vacuum port
- (7) Flow breakage adjusting nut

Integrated vacuum generator

Integrated vacuum generator MS3

AMILA

MS3 integrated vacuum generator purchase guide

MS3 20 H S NC AS VD NPN

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①Product series	②Nozzle size	③Maximum vacuum pressure	④Rated air supply pressure	⑤Initial state of suction valve
MS3	15 - 1.5mm 20 - 2.0mm 25 - 2.5mm 30 - 3.0mm	H - -85 Kpa	S - 0.5 Mpa R - 0.35 Mpa	NC - Normally closed NO - Normally open

Note: Nozzle size 25 and 30 can only match HS.

⑥Blowing valve	⑦System monitoring control	⑧Switch output mode
AS - Blowing valve (Normal vacuum breakage) ASD - Blowing valve and one-way safety valve (High vacuum breakage capacity)	Null - No vacuum switch VD - Digital vacuum switch RD - Energy-saving vacuum switch Note: ⑦When item is "Null", there will be no need to make a choice for item⑧.	NPN PNP

Technical parameters of MS3 integrated vacuum generator

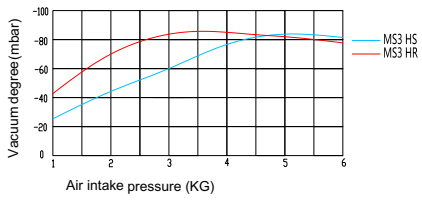
Model	Nozzle size mm	Vacuum degree %	Maximum vacuum flow rate l/min	Air consumption l/min	Air intake pressure bar	Weight g
MS3 15 HS…	1.5	85	63	100	5	280
MS3 15 HR…	1.5	85	54	100	3.5	280
MS3 20 HS…	2.0	85	110	180	5	280
MS3 20 HR…	2.0	85	88	180	3.5	280
MS3 25 HS…	2.5	85	160	265	5	280
MS3 30 HS…	3.0	85	225	385	5	280

Integrated vacuum generator

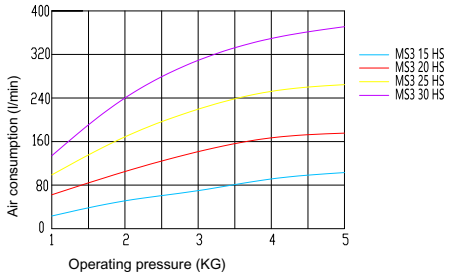
Integrated vacuum generator MS3

Performance curve of MS3 integrated vacuum generator

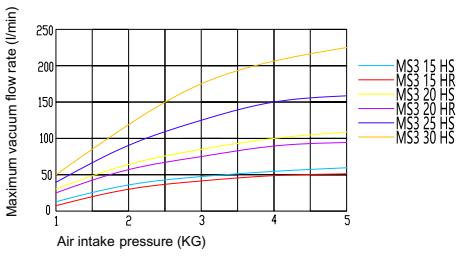
Vacuum degree at different pressure



Air consumption at different pressure

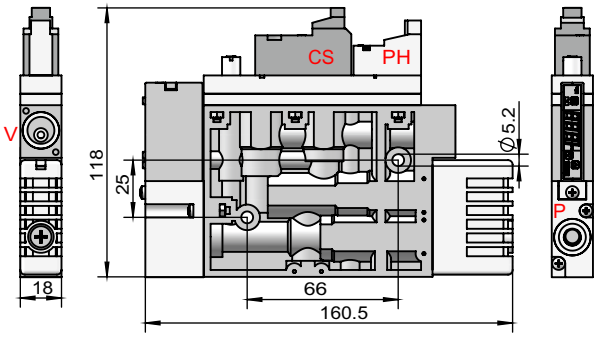


Maximum vacuum flow rate at different pressure



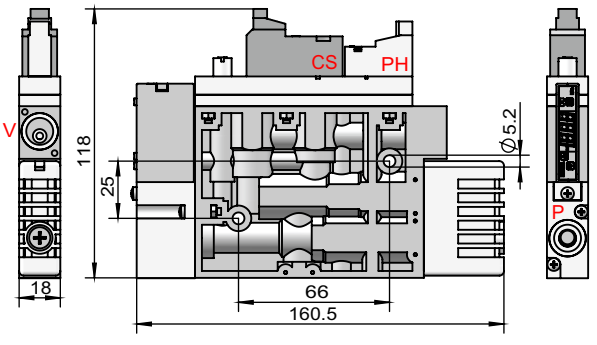
Design parameters of MS3 integrated vacuum generator

MS3...NC...



P: Compressed air inlet (G1/4)
V: Vacuum port (G1/4)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

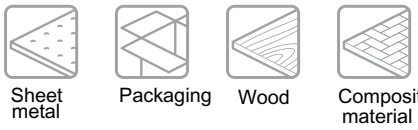
MS3...NO...

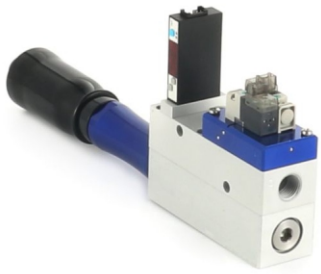


P: Compressed air inlet (G1/4)
V: Vacuum port (G1/4)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Integrated vacuum generator

M-ECO integrated vacuum generator

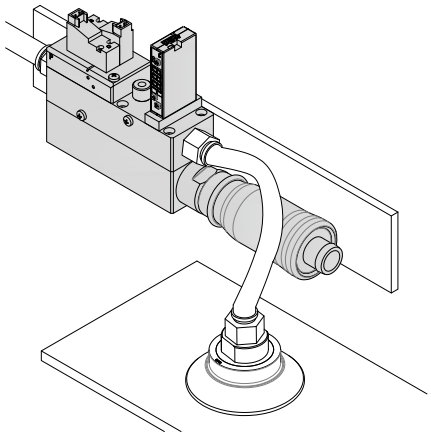




Introduction

- With an extremely high suction capacity, the vacuum generator can quickly and safely handle all breathable workpieces.
- Efficient multistage nozzles, quick evacuation in a vacuum of low vacuum degree, less cost, shorter working cycle
- Integrated with solenoid valve and vacuum switch to form a space-saving integral structure
- Optional air saving function enables less compressed air consumed for handling airtight workpieces.

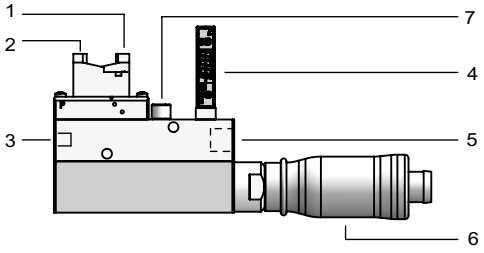
Application of M-ECO integrated vacuum generator



Application

- Integrated with solenoid valve and vacuum switch, the multistage vacuum generator is used to handle cardboards, packaging materials, sound insulating materials and other porous materials.

System design of M-ECO integrated vacuum generator



Structure

- (1) Blowing valve
- (2) Suction valve
- (3) Compressed air inlet
- (4) Vacuum switch
- (5) Gripper connecting port
- (6) Silencer
- (7) Flow breakage adjusting nut

Integrated vacuum generator

M-ECO integrated vacuum generator

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M-ECO integrated vacuum generator purchase guide

M-ECO - 25 - 2 NC VN

① ② ③ ④ ⑤

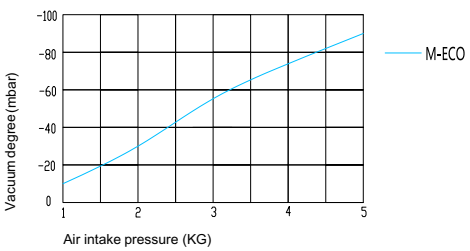
① Product series	② Vacuum tube	③ Number of vacuum tube stages	④ Initial state of suction valve	⑤ System monitoring control
M-ECO	25 – Vacuum tube type - XI40	2 - 2-stage vacuum tube 3 - 3-stage vacuum tube	NC - Normally closed NO - Normally open Note: Initial state of suction valve: NC - constantly on; NO - constantly off.	Null - No digital vacuum switch VN - NPN digital vacuum switch VP - PNP digital vacuum switch RN- NPN energy-saving digital vacuum switch RP - PNP energy-saving digital vacuum switch

Technical parameters of M-ECO integrated vacuum generator

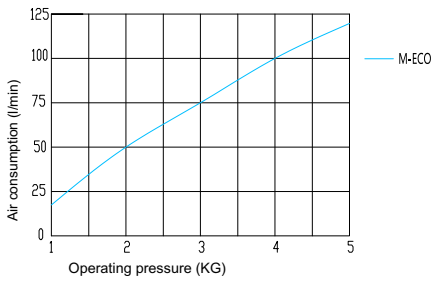
Model	Maximum vacuum degree %	Maximum vacuum flow rate l/min	Maximum air consumption l/min	Air intake pressure bar	Weight g
M-ECO-25-2...	95	168	139	4...6	571.5
M-ECO-25-3...	95	372	139	4...6	597.5

Performance curve of M-ECO integrated vacuum generator

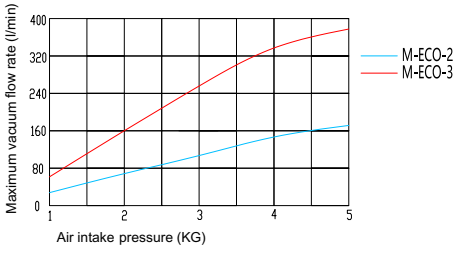
Vacuum degree at different pressure



Air consumption at different pressure



Maximum vacuum flow rate at different pressure

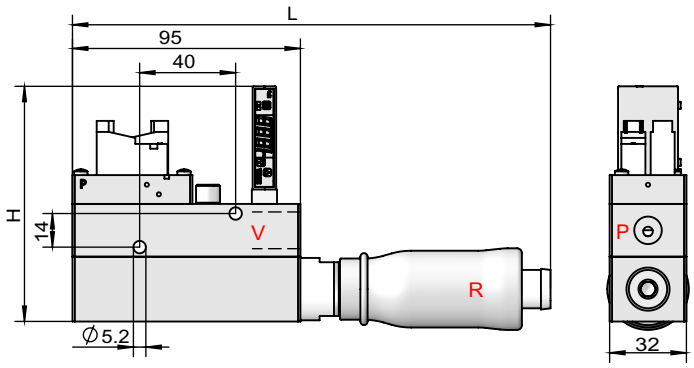


Integrated vacuum generator

M-ECO integrated vacuum generator

Design parameters of M-ECO integrated vacuum generator

M-ECO...



P: Compressed air inlet (G1/4)
R: Exhaust port
V: Vacuum port (G3/8)

Model	Size (mm)	
	H	L
M-ECO-25-2 NC(NO)	90.5	199
M-ECO-25-3 NC(NO)	90.5	245
M-ECO-25-2 NC(NO) □	98	199
M-ECO-25-3 NC(NO) □	98	245

Integrated vacuum generator

MCP integrated vacuum generator

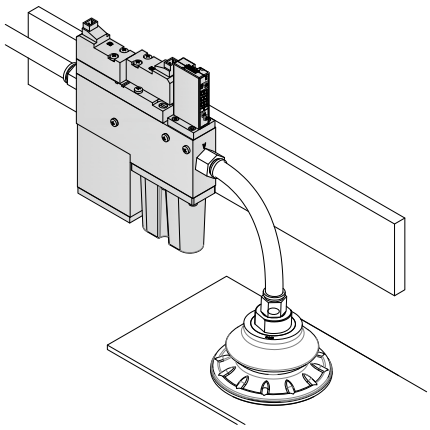
Sheet metal | Packaging | Injection molding | New energy | glass



Introduction

- Nozzle size ranges from 1.0 to 3.0mm, offering a full range of suction capacity and optimal air consumption.
- A plurality of modular structures flexibly meet customer needs.
- Automatic air saving function (optional) offers operation economy for continuous operation.
- Digital vacuum switch (optional) can be easily adjusted and displayed through an LED screen.

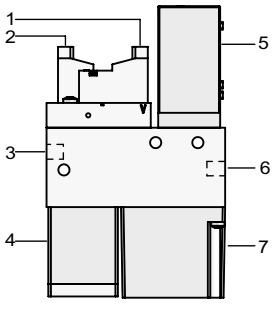
Application of MCP integrated vacuum generator



Application

- Used to handle airtight and slightly breathable workpieces in electronic, electronic engineering, packaging, robotic and automotive industries

System design of MCP integrated vacuum generator



Structure

- (1) Blowing valve
- (2) Suction valve
- (3) Compressed air inlet
- (4) Silencer
- (5) Vacuum switch
- (6) Vacuum port
- (7) Filter

Integrated vacuum generator
MCP integrated vacuum generator

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MCP integrated vacuum generator purchase guide

MCP 11 NO AS VD NPN

① ② ③ ④ ⑤ ⑥

① Product series	② Nozzle size	③ Initial state of suction valve	④ Blowing valve	⑤ System monitoring control	⑥ Switch output mode
MCP	11 - 1.0mm 16 - 1.5mm 20 - 2.0mm 25 - 2.5mm 30 - 3.0mm	NC - Normally closed NO - Normally open	AS - Blowing valve	Null - No vacuum switch VD - Digital vacuum switch RD - Energy-saving vacuum switch Note: When "Null" is selected, there will be no need to make a choice for "⑥Switch output mode".	NPN PNP

Models of MCP integrated vacuum generator fittings and elements

Model	Solenoid valve plug	Substitute silencer	Substitute filter element
MCP 11 NO/NC AS	KC-25	MCP 10-XYQ	MCP 10-GLG
MCP 11 NO/NC AS VD	KC-25	MCP 10-XYQ	MCP 10-GLG
MCP 16 NO/NC AS	KC-25	MCP 10-XYQ	MCP 10-GLG
MCP 16 NO/NC AS VD	KC-25	MCP 10-XYQ	MCP 10-GLG
MCP 20 NO/NC AS	KC-25	MCP-CXYQ	MCP-GLG
MCP 20 NO/NC AS VD	KC-25	MCP-CXYQ	MCP-GLG
MCP 25 NO/NC AS	KC-25	MCP-CXYQ	MCP-GLG
MCP 25 NO/NC AS VD	KC-25	MCP-CXYQ	MCP-GLG
MCP 30 NO/NC AS	KC-25	MCP-CXYQ	MCP-GLG
MCP 30 NO/NC AS VD	KC-25	MCP-CXYQ	MCP-GLG

Technical parameters of MCP integrated vacuum generator

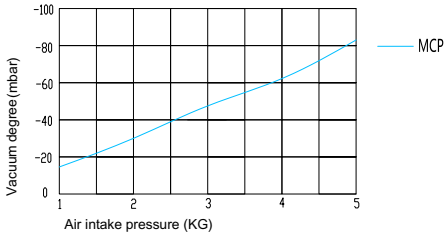
Model	Nozzle size mm	Vacuum degree %	Maximum vacuum flow rate l/min	Suction air consumption l/min	Maximum blowing air consumption l/min	Air intake pressure bar	Weight g
MCP 11...	1.0	85	37	53	200	5	275
MCP 16...	1.5	85	65	117	200	5	275
MCP 20...	2.0	85	116	190	200	5...6	465
MCP 25...	2.5	85	161	310	200	5...6	485
MCP 30...	3.0	85	200	420	200	5...6	485

Integrated vacuum generator

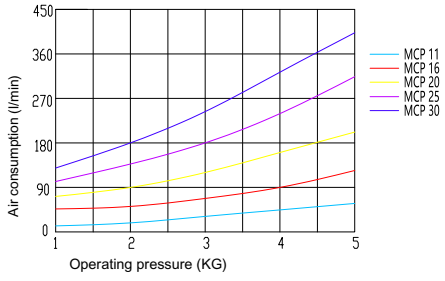
MCP integrated vacuum generator

Performance curve of MCP integrated vacuum generator

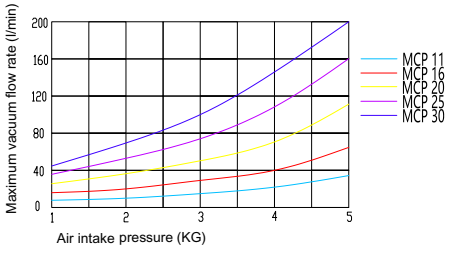
Vacuum degree at different pressure



Air consumption at different pressure

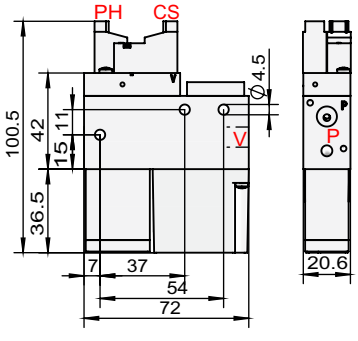


Maximum vacuum flow rate at different pressure



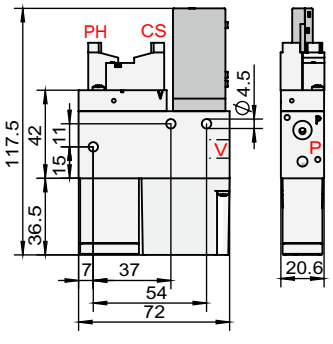
Design parameters of MCP integrated vacuum generator

MCP 11to16 NC/NO AS



P: Compressed air inlet (G1/8)
V: Vacuum port (G1/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

MCP 11to16 NC/NO AS VD



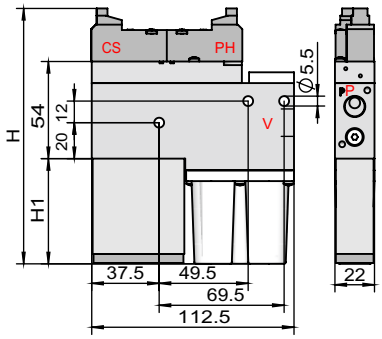
P: Compressed air inlet (G1/8)
V: Vacuum port (G1/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Integrated vacuum generator

MCP integrated vacuum generator

Design parameters of MCP integrated vacuum generator

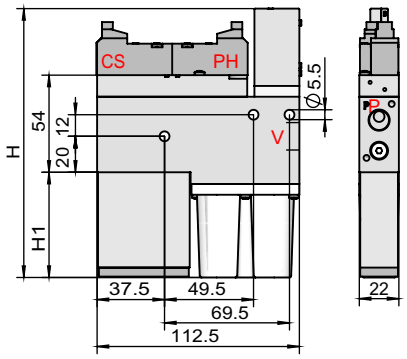
MCP 20to30 NC/NO AS



P: Compressed air inlet (G1/4)
V: Vacuum port (G3/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Model	Size (mm)	
	H	H1
MCP 20 NC(NO) AS	142.5	58.5
MCP 25 NC(NO) AS	157.5	73.5
MCP 30 NC(NO) AS	157.5	73.5

MCP 20to30 NC/NO AS VD

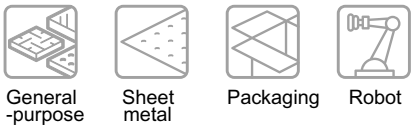


P: Compressed air inlet (G1/4)
V: Vacuum port (G3/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Model	Size (mm)	
	H	H1
MCP 20 NC(NO) AS VD	149.5	58.5
MCP 25 NC(NO) AS VD	164.5	73.5
MCP 30 NC(NO) AS VD	164.5	73.5

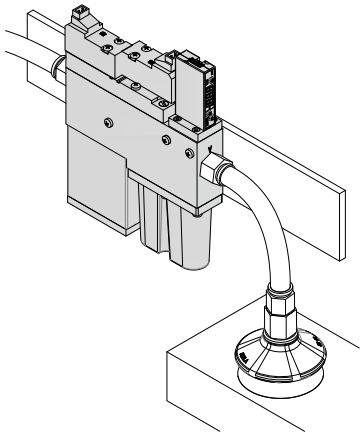
Integrated vacuum generator

MMP integrated vacuum generator

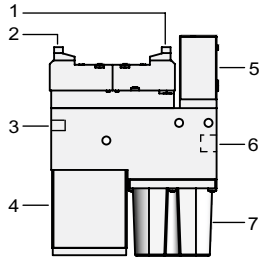




Application of MMP integrated vacuum generator



System design of MMP integrated vacuum generator



Introduction

- High suction and blowing capacity, extremely quick suction and release of workpieces to ensure minimum working cycle
- Different suction flow rates to meet various operation requirements
- Automatic air saving function (optional) offers operation economy for continuous operation.
- A plurality of modular structures flexibly meet customer needs.
- Digital vacuum switch (optional) can be easily adjusted and displayed through an LED screen.

Application

- The integrated vacuum generator is applicable to handling non-breathable workpieces.
- Applicable to handling metal sheets, packaging machinery and industrial robots in the automotive industry
- Suitable for very short workpiece suction and release cycles (with a strong blowing function to enable the workpiece to be released quickly)

Structure

- (1) Blowing valve
- (2) Suction valve
- (3) Compressed air inlet
- (4) Silencer
- (5) Vacuum switch
- (6) Vacuum port
- (7) Filter

Integrated vacuum generator

MMP integrated vacuum generator

AMILA

MMP integrated vacuum generator purchase guide

MMP C 15 NO AS VD NPN

① ② ③ ④ ⑤ ⑥ ⑦

① Product series	② Product type	③ Nozzle size	④ Initial state of suction valve
MMP	Null - Basic type C - Dedicated for automotive industry	15 - 1.5mm 20 - 2.0mm 25 - 2.5mm 30 - 3.0mm	NC - Normally closed NO - Normally open
	⑤ Blowing valve	⑥ System monitoring control	⑦ Switch output mode
	AS - Blowing valve	Null - No vacuum switch VD - Digital vacuum switch RD - Energy-saving vacuum switch	NPN PNP

Note: When "Null" is selected, there will be no need to make a choice for "⑦Switch output mode".

Models of MMP integrated vacuum generator fittings and elements

Model	Solenoid valve plug	Substitute silencer	Substitute filter element
MMP 15 NO/NC AS (VD)	KC-25	MCP-DXYQ	MCP-GLG
MMP 20 NO/NC AS (VD)	KC-25	MCP-DXYQ	MCP-GLG
MMP 25 NO/NC AS (VD)	KC-25	MCP-CXYQ	MCP-GLG
MMP 30 NO/NC AS (VD)	KC-25	MCP-CXYQ	MCP-GLG
MMPC 15 NO/NC AS (VD)	KC-26	MCP-DXYQ	MCP-GLG
MMPC 20 NO/NC AS (VD)	KC-26	MCP-DXYQ	MCP-GLG
MMPC 25 NO/NC AS (VD)	KC-26	MCP-CXYQ	MCP-GLG
MMPC 30 NO/NC AS (VD)	KC-26	MCP-CXYQ	MCP-GLG

Technical parameters of MMP integrated vacuum generator

Model	Nozzle size mm	Vacuum degree %	Maximum vacuum flow rate l/min	Suction air consumption l/min	Maximum blowing air consumption l/min	Air intake pressure bar	Weight g
MMP□ 15...	1.5	85	65	117	220	5...6	465
MMP□ 20...	2.0	85	116	190	220	5...6	465
MMP□ 25...	2.5	85	161	310	220	5...6	485
MMP□ 30...	3.0	85	200	420	220	5...6	485

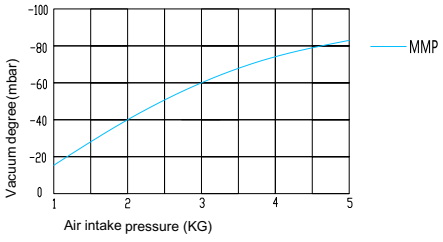
Integrated vacuum generator

MMP integrated vacuum generator

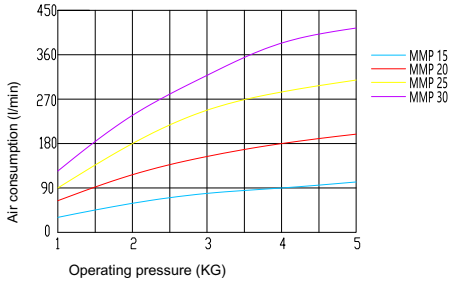
AMILA

Performance curve of MMP integrated vacuum generator

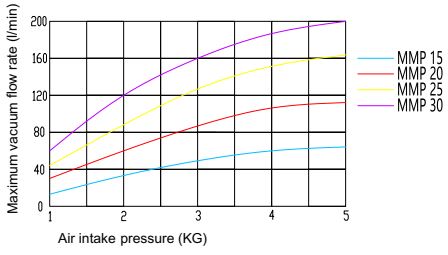
Vacuum degree at different pressure



Air consumption at different pressure

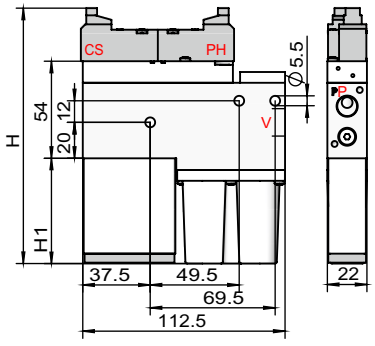


Maximum vacuum flow rate at different pressure



Design parameters of MMP integrated vacuum generator

MMP15 to 30 NC/NO AS



P: Compressed air inlet (G1/4)
V: Vacuum port (G3/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

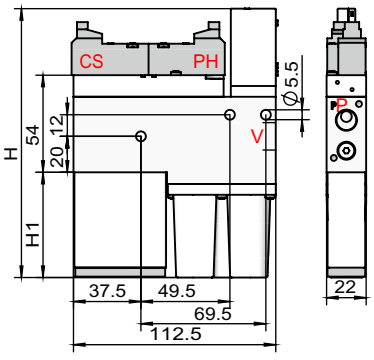
Model	Size (mm)	
	H	H1
MMP 15 NO(NC) AS	142.5	58.5
MMP 20 NO(NC) AS	142.5	58.5
MMP 25 NO(NC) AS	157.5	73.5
MMP 30 NO(NC) AS	157.5	73.5

Integrated vacuum generator

MMP integrated vacuum generator

Design parameters of MMP integrated vacuum generator

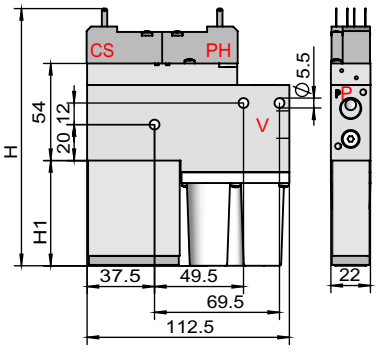
MMP15 to 30 NC/NO AS VD



P: Compressed air inlet (G1/4)
V: Vacuum port (G3/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Model	Size (mm)	
	H	H1
MMP 15 NO(NC) AS VD	149.5	58.5
MMP 20 NO(NC) AS VD	149.5	58.5
MMP 25 NO(NC) AS VD	164.5	73.5
MMP 30 NO(NC) AS VD	164.5	73.5

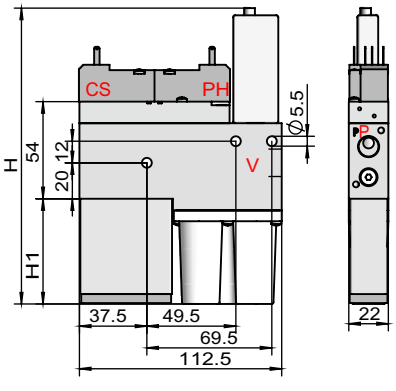
MMPC15 to 30 NC/NO AS



P: Compressed air inlet (G1/4)
V: Vacuum port (G3/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Model	Size (mm)	
	H	H1
MMPC 15 NC(NO) AS	143	58.5
MMPC 20 NC(NO) AS	143	58.5
MMPC 25 NC(NO) AS	158	73.5
MMPC 30 NC(NO) AS	158	73.5

MMPC15 to 30 CN/NO AS VD



P: Compressed air inlet (G1/4)
V: Vacuum port (G3/8)
PH: Vacuum breakage control valve
CS: Vacuum generation control valve

Model	Size (mm)	
	H	H1
MMPC 15 NC(NO) AS VD	150	58.5
MMPC 20 NC(NO) AS VD	150	58.5
MMPC 25 NC(NO) AS VD	165	73.5
MMPC 30 NC(NO) AS VD	165	73.5

Energy-saving mechanical vacuum generator

MCP-RP energy-saving mechanical vacuum generator


Sheet metal


Glass

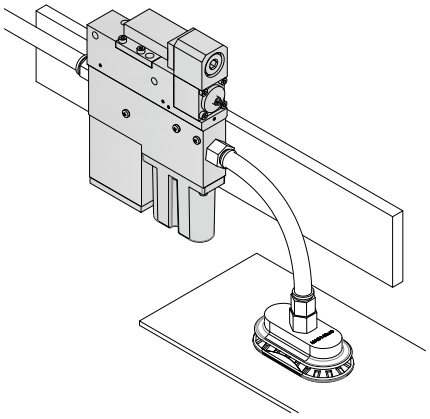

Automobile manufacture



Introduction

- Mechanical energy-saving mode: When the vacuum degree reaches the set value, the generator will automatically start its energy saving function to stop air supply.
- Can adapt to various operating conditions; can work in dusty and moist environments
- Equipped with a filter to protect the product from being affected by dust and particles
- Contamination resistance

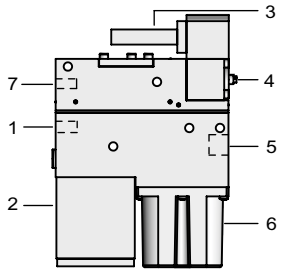
Application of MCP-RP energy-saving mechanical vacuum generator



Application

- Multi-station vacuum gripping
- Applicable to operating stations in automotive welding workshop

System design of MCP-RP energy-saving mechanical vacuum generator



Structure

- (1) Compressed air inlet
- (2) Silencer
- (3) Vacuum switch
- (4) Adjustment screw
- (5) Vacuum port
- (6) Filter
- (7) Back-blowing port

Energy-saving mechanical vacuum generator

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MCP-RP energy-saving mechanical vacuum generator

MCP-RP energy-saving mechanical vacuum generator purchase guide

MCP 20 RP VN

① ② ③ ④

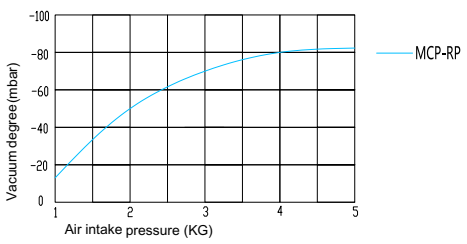
① Product series	② Nozzle size	③ System monitoring	④ System monitoring control
MCP-RP	20 - 2.0mm 25 - 2.5mm 30 - 3.0mm	RP - With pneumatic vacuum switch to achieve air saving	Null - No digital vacuum switch VN - NPN digital vacuum switch VP - PNP digital vacuum switch

Technical parameters of MCP-RP energy-saving mechanical vacuum generator

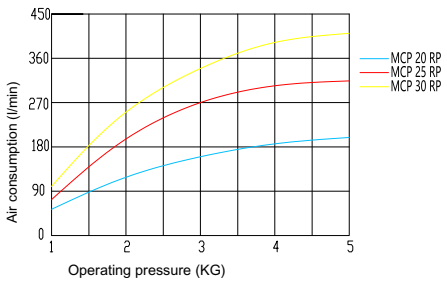
Model	Nozzle size mm	Vacuum degree %	Maximum vacuum flow rate l/min	Suction air consumption l/min	Maximum blowing air consumption l/min	Air intake pressure bar	Weight g
MCP 20 RP	2.0	85	116	190	200	5...6	0.39
MCP 25 RP	2.5	85	161	310	200	5...6	0.41
MCP 30 RP	3.0	85	200	420	200	5...6	0.41

Performance curve of MCP-RP energy-saving mechanical vacuum generator

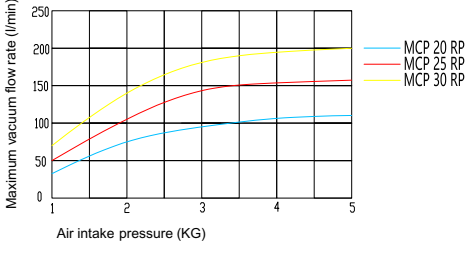
Vacuum degree at different pressure



Air consumption at different pressure



Maximum vacuum flow rate at different pressure

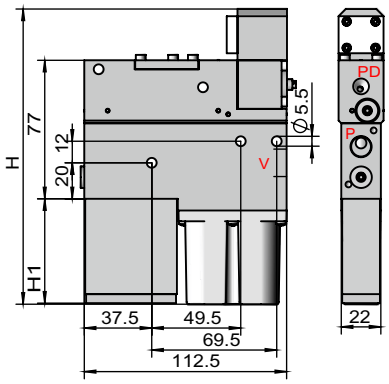


Energy-saving mechanical vacuum generator

MCP-RP energy-saving mechanical vacuum generator

Design parameters of MCP-RP energy-saving mechanical vacuum generator

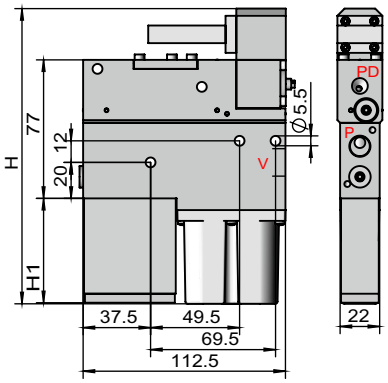
MCP 20 to30 RP



P: Compressed air inlet (G1/4)
PD:Back-blowing port (G1/8)
V: Vacuum port (G3/8)

Model	Size (mm)	
	H	H1
MCP 20 RP	164	58.5
MCP 25 RP	179	73.5
MCP 30 RP	179	73.5

MCP 20 to30 RP □



P: Compressed air inlet (G1/4)
PD:Back-blowing port (G1/8)
V: Vacuum port (G3/8)

Model	Size (mm)	
	H	H1
MCP 20 RP□	164	58.5
MCP 25 RP□	179	73.5
MCP 30 RP□	179	73.5

Conveying vacuum generator

MEC conveying vacuum generator

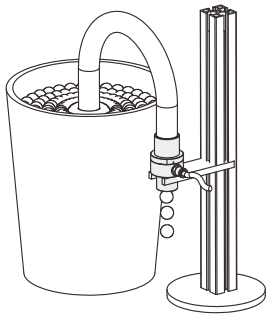
Biopharm aceutical | Food industry | Packaging



Introduction

- Suction highly breathable workpieces such as powder, fabric, paper or various regenerated materials
- Convey various tiny granules such as polystyrene granules, plastic granules, rice grains or other filling materials
- Remove non-corrosive steam and gases

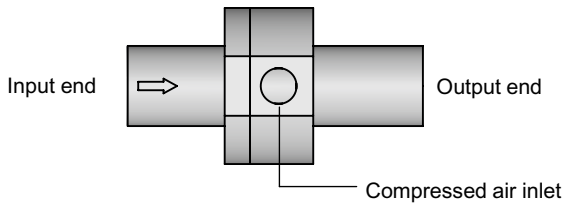
Application of MEC conveying vacuum generator



Application

- Handle loose materials such as textiles, paper, etc.
- Convey grains such as wheat, corn, etc.
- Convey granular powder such as laundry powder, plastic granules, etc.
- Remove the cuttings generated in the process of machining.
- Draw non-corrosive wastewater and gas produced in industrial production

System design of MEC conveying vacuum generator



Structure

- The straight through structure can continuously suction and convey materials of different kinds.
- Compressed air enters from the annular part on the side.

Conveying vacuum generator
MEC conveying vacuum generator

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MEC conveying vacuum generator purchase guide

MEC 60 A2

① ② ③

① Product series	② Nozzle size	③ Material
MEC	60 - 6.0mm 100 - 10.0mm 200 - 20.0mm 400 - 40.0mm 750 - 75.0mm	Null - Aluminum oxide A2 - Stainless steel

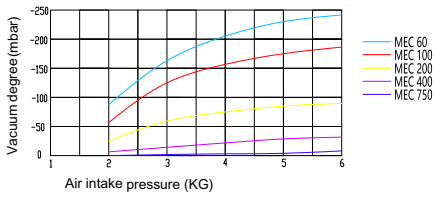
Note: The nozzle size 75.0mm can only match the material aluminum oxide.

Technical parameters of MEC conveying vacuum generator

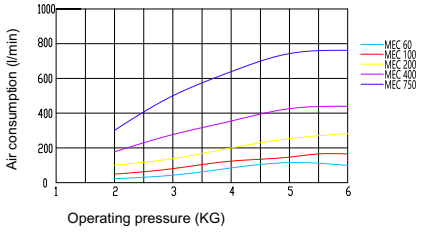
Model	Nozzle diameter mm	Maximum vacuum degree mbar	Maximum suction capacity l/min	Suction air consumption l/min	Air intake pressure bar	Weight Kg
MEC 60	6	-245	215	110	2.0...5.0	0.040
MEC 60 A2	6	-245	215	110	2.0...5.0	0.091
MEC 100	10	-185	610	135	2.0...6.0	0.070
MEC 100 A2	10	-185	610	135	2.0...6.0	0.206
MEC 200	20	-85	1375	290	2.0...6.0	0.180
MEC 200 A2	20	-85	1375	290	2.0...6.0	0.511
MEC 400	40	-35	2250	445	2.0...6.0	0.525
MEC 400 A2	40	-35	2250	445	1.9...5.9	1.475
MEC 750	75	-5	8640	770	2.0...6.0	2.350

Performance curve of MEC conveying vacuum generator

Vacuum degree at different pressure



Air consumption at different pressure



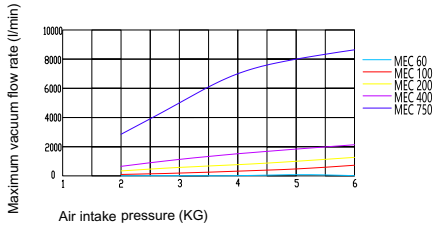
Conveying vacuum generator

MEC conveying vacuum generator

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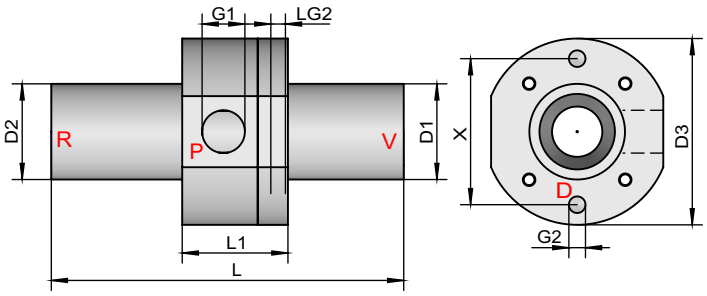
Performance curve of MEC conveying vacuum generator

Maximum vacuum flow rate at different pressure



Design parameters of MEC conveying vacuum generator

MEC 60 to 750...



Model	Size (mm)								
	D1	D2	D3	L	L1	LG2	X	G1	G2
MEC 60	12.5	12.5	32	44	14	5	25	M5-IG	M3-IG
MEC 60 A2	12.5	12.5	32	44	14	5	25	M5-IG	M3-IG
MEC 100	19	19	37	70	21	8	29	G1/8-IG	M4-IG
MEC 100 A2	19	19	37	70	21	8	29	G1/8-IG	M4-IG
MEC 200	38	32	50	90	30	12	42	G1/4-IG	M4-IG
MEC 200 A2	38	32	50	90	30	12	42	G1/4-IG	M4-IG
MEC 400	75	52	84	95	35	14	72	G3/8-IG	M4-IG
MEC 400 A2	75	52	84	95	35	14	72	G3/8-IG	M4-IG
MEC 750	125	100	140	180	65	6	126	G1/2-IG	M6-IG

Vacuum pump
AE-SR vacuum pump

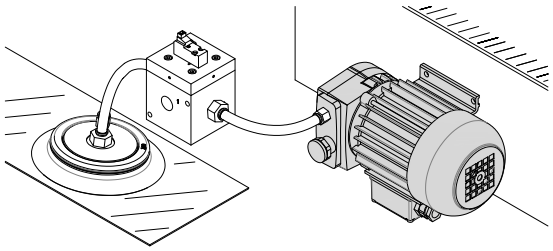
General -purpose



Introduction

- Dry (oil-free) vacuum pump, robust and durable, almost maintenance-free
- Quality and efficient carbon graphite rotary-vane pump with low power consumption
- Rotary-vane pump based on multi-chamber compression principle, operating without vibration, and outputting continuously almost without interruption
- Permanently lubricated bearing, powerful cooling fan with a good cooling function

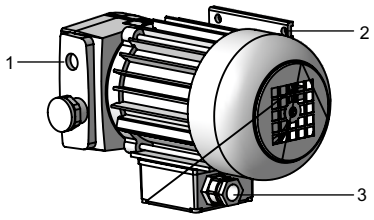
System design of AE-SR vacuum pump



Application

- The highly adaptable vacuum pump can be used for manual or automatic handling
- Handles airtight workpieces
- Quickly evacuates the air in a vacuum system

System design of AE-SR vacuum pump



Structure

- (1) Gripper connecting port
- (2) Mounting base
- (3) Power port

Vacuum pump
AE-SR vacuum pump

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AE-SR vacuum pump purchase guide

AE-SR 4 AC

① ② ③

① Product series	② Specification		③ Power supply
AE-SR	4 - 4m³/h	60 - 60m³/h	AC - Single-phase
	8 - 8m³/h	80 - 80m³/h	AC3 - Three-phase
	10 - 10m³/h	100 - 100m³/h	
	16 - 16m³/h	140 - 140m³/h	
	25 - 25m³/h	250 - 250m³/h	
	40 - 40m³/h		

Model specifications of AE-SR vacuum pump

Model	AC	AC3
AE-SR 4 ☐	●	●
AE-SR 8 ☐	●	●
AE-SR 10 ☐	●	●
AE-SR 16 ☐	●	●
AE-SR 25 ☐	-	●
AE-SR 40 ☐	-	●
AE-SR 60 ☐	-	●
AE-SR 80 ☐	-	●
AE-SR 100 ☐	-	●
AE-SR 140 ☐	-	●
AE-SR 250 ☐	-	●

Technical parameters of AE-SR vacuum pump

Model	Maximum vacuum degree mbar	Maximum suction rate m³/h		Protection level	Weight kg	Noise level dB(A) At 50 Hz
		At 50 Hz	At 60 Hz			
AE-SR 4 AC(AC3)	−850	4.1	4.7	IP 54	7	59
AE-SR 8 AC(AC3)	−850	7.6	8.7	IP 54	12	58
AE-SR 10 AC(AC3)	−850	10	12	IP 54	16	60
AE-SR 16 AC(AC3)	−850	16	19	IP 54	23	61
AE-SR 25 AC3	−850	25	30	IP 55	26	62
AE-SR 40 AC3	−850	40	48	IP 55	39	67
AE-SR 60 AC3	−850	58	69	IP 55	71	72
AE-SR 80 AC3	−920	67	80	IP 54	78	72
AE-SR 100 AC3	−920	98	112	IP 54	100	75
AE-SR 140 AC3	−920	129	154	IP 54	111	76
AE-SR 250 AC3	−800	244	286	IP 55	222	77

Vacuum pump
AE-SR vacuum pump

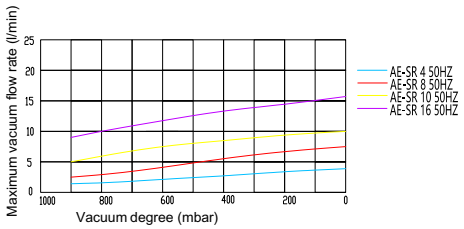
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Technical parameters of AE-SR vacuum pump

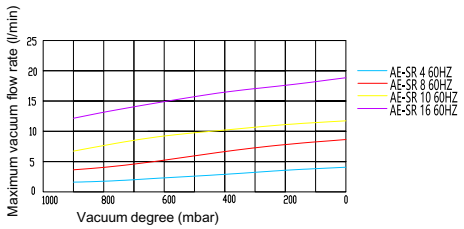
Model	Power supply Voltage	Voltage V		Current range A		Power KW	
		At 50 Hz	At 60 Hz	At 50 Hz	At 60 Hz	At 50 Hz	At 60 Hz
AE-SR 4 AC	Single-phase	230 ± 10%	230 ± 10%	1.65	1.65	0.18	0.22
AE-SR 4 AC3	Three-phase	175-260/300-450	200-300/350-520	1.08/0.62	1.08/0.62	0.18	0.22
AE-SR 8 AC	Single-phase	230 ± 10%	230 ± 10%	3.90	3.40	0.35	0.42
AE-SR 8 AC3	Three-phase	170-260/300-450	200-300/350-520	2.35/1.36	2.4/1.4	0.35	0.42
AE-SR 10 AC	Single-phase	230 ± 10%	230 ± 10%	3.00	3.40	0.37	0.45
AE-SR 10 AC3	Three-phase	175-260/300-450	200-300/350-520	2.3/1.33	2.35/1.36	0.37	0.45
AE-SR 16 AC	Single-phase	230 ± 10%	230 ± 10%	4.60	5.20	0.55	0.70
AE-SR 16 AC3	Three-phase	175-260/300-450	200-300/350-520	3.8/2.2	3.9/2.25	0.55	0.7
AE-SR 25 AC3	Three-phase	190-255/330-440	190-290/330-500	4.2-3.5/2.4-2.0	4.0-3.6/2.3-2.1	0.75	0.9
AE-SR 40 AC3	Three-phase	190-255/330-440	190-290/330-500	6.9/4.0	6.9/4.0	1.25	1.5
AE-SR 60 AC3	Three-phase	230/400	230-265/400-460	9.30/5.36	9.8-11.4/5.7-6.6	2.4	3.0
AE-SR 80 AC3	Three-phase	230/400	230-265/400-460	9.30/5.36	9.8-11.4/5.7-6.6	2.4	3.0
AE-SR 100 AC3	Three-phase	230/400	230-265/400-460	11.1/6.44	10.9-11.8/6.3-6.8	3.0	3.6
AE-SR 140 AC3	Three-phase	230/400	230-265/400-460	15.1/18.7	14.7-17.0/8.4-9.8	4.0	4.8
AE-SR 250 AC3	Three-phase	230/400	265/400-460	22.2/12.8	21.8/12.6-13.5	5.5	6.6

Design parameters of AE-SR vacuum pump

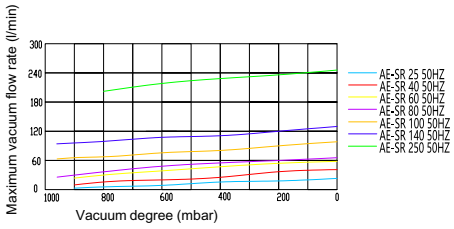
Maximum vacuum flow rate at different pressure



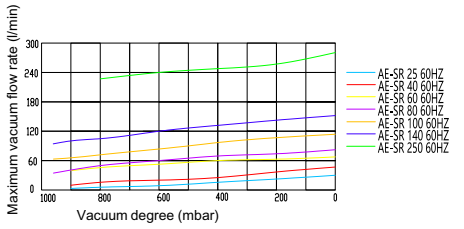
Maximum vacuum flow rate at different pressure



Maximum vacuum flow rate at different pressure



Maximum vacuum flow rate at different pressure

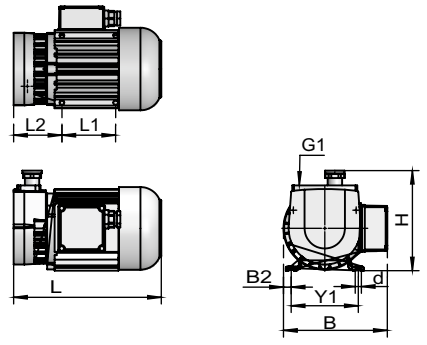


Vacuum pump
AE-SR vacuum pump

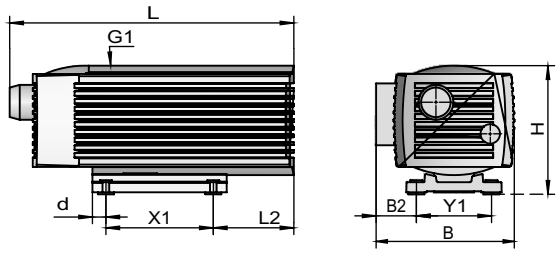
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Design parameters of AE-SR vacuum pump

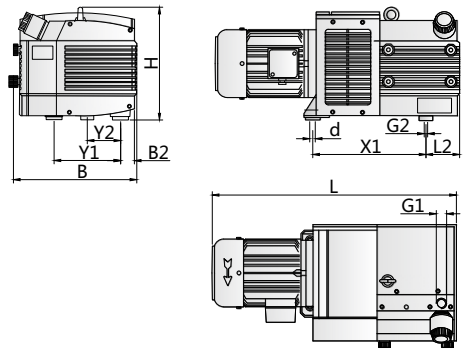
AE-SR-4 to 8



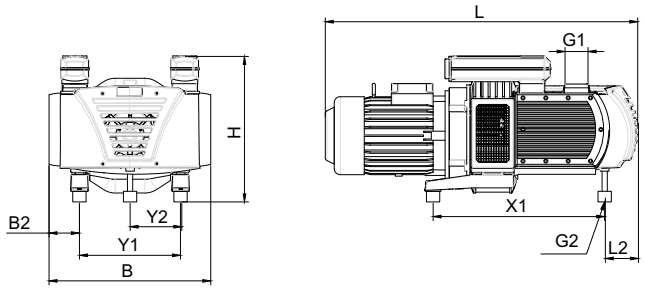
AE-SR-10 to 40



AE-SR-60 to 140



AE-SR-250...



Model	Size (mm)										
	B	B2	d	G1	G2	H	L	L2	X1	Y1	Y2
AE-SR-4-...	155	–	7	G1/4-IG	–	148	222	–	80	100	–
AE-SR-8-...	155	11. 5	7	G3/8-IG	–	172	251	80	80	100	–
AE-SR-10-...	206	60	7	G1/2-IG	–	195	429	108	160	112	–
AE-SR-16-...	231	60	7	G1/2-IG	–	211	452	73	202	125	–
AE-SR-25-...	260	40	7	G3/4-IG	–	290	505	96	220	190	–
AE-SR-40-...	280	51	7	G3/4-IG	–	290	572	131	220	190	–
AE-SR-60-...	353	48	12	G1-IG	M8-IG	328	709	96	326	190	95
AE-SR-80-...	353	48	12	G1-IG	M8-IG	328	709	96	326	190	95
AE-SR-100-...	470	110	12	G1-1/2-IG	M8-IG	336	835	140	398	245	123
AE-SR-140-...	470	110	12	G1-1/2-IG	M8-IG	336	873	140	398	245	123
AE-SR-250-...	644	126	–	G2-1/2-IG	M10-IG	527	1192	124	645	360	180

Vacuum blower

MAH vacuum blower

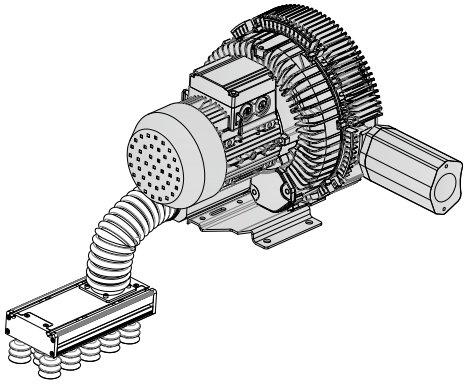
General -purpose



Introduction

- Handles cartons, foam materials, heat-insulating materials, regenerated materials and other highly breathable materials
- High suction capacity, easy leakage compensation

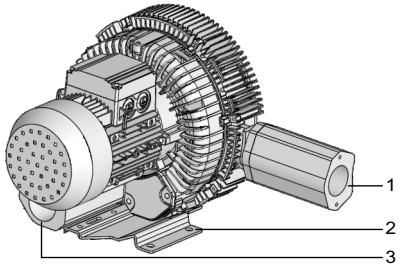
System design of MAH vacuum pump



Application

- Used in logistics, palletized goods suction, foam gripper used stacking systems

System design of MAH vacuum pump



Structure

- (1) Exhaust port
- (2) Mounting hole
- (3) Vacuum port

Vacuum blower
MAH vacuum blower

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MAH vacuum blower purchase guide

MAH - 01

① ②

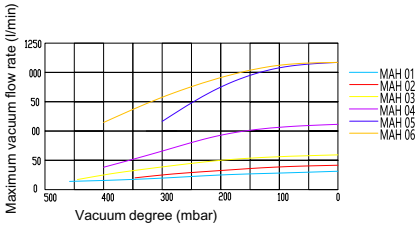
① Product series	② Specification
MAH	01 02 03 04 05 06

Technical parameters of MAH vacuum blower

Model	Power KW	Maximum vacuum degree -mbar	Maximum vacuum flow rate m^3/h	Weight kg
MAH 01	3.3	460	165	48
MAH 02	4.0	390	230	44
MAH 03	5.5	440	320	70
MAH 04	7.5	400	520	88
MAH 05	12.5	300	1110	187
MAH 06	16.5	410	1110	197

Performance curve of MAH vacuum blower

Maximum vacuum flow rate at different pressure

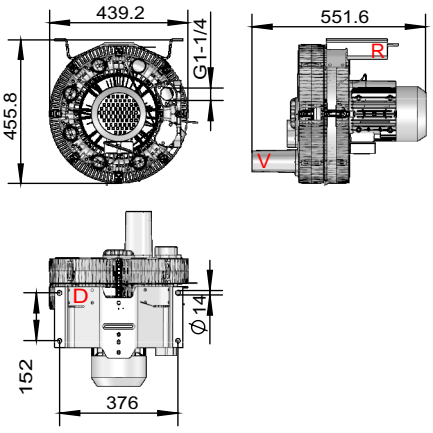


Vacuum blower
MAH vacuum blower

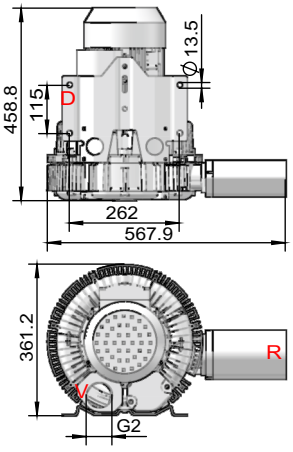
AMILA

Design parameters of MAH vacuum blower

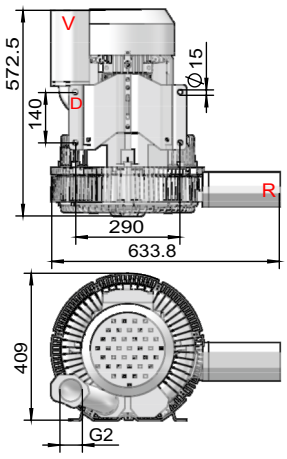
MAH 01



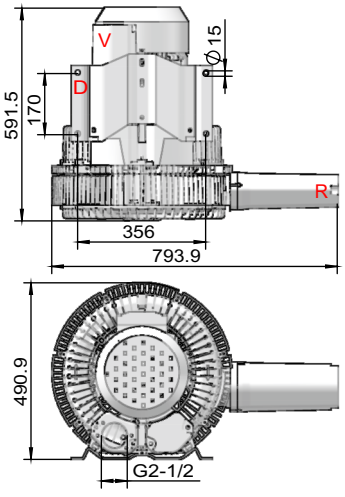
MAH 02



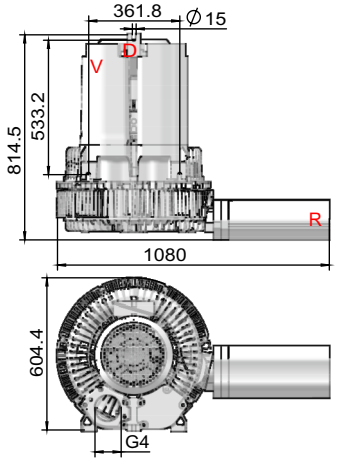
MAH 03



MAH 04



MAH 05/06



Valve technology series
Product overview

AMILA

Valve technology



477 MVV series

Two-position three-way external pilot vacuum switching valve

◇ Maximum flow rate: 6 to 230m3/h

◇ Connecting thread: G1/4 to G11/2

General -purpose



495 ISV series

Check valve

◇ Pressure range: -0.95-0bar

◇ Connection specification: M5-G3/8

General -purpose



481 MO series

Two-position three-way direct acting vacuum switching valve

◇ Maximum flow rate: 20 to 230 m³/h

◇ Connecting thread: G1/ 2 to G11/2

General -purpose



497 SW series

Throttle valve

◇ Nominal diameter: 0.25-2.0mm

◇ Connection specification: G1/8-G1/4

General -purpose



484 MPV series

Large flow vacuum switching valve system

◇ Connection specification: 32–60mm

◇ Maximum vacuum flow rate: 1110 m³/h

General -purpose



500 RSV series

Non-Return valve

◇ Nominal diameter: 14 to 54mm

◇ Connecting thread: G3/8 to G2

General -purpose



488 MP2V series

Logic valve

◇ Minimum acting flow rate: 3 to 16NL/min

◇ Connecting thread: M5-G1/8

General -purpose



503 IRV series

Vacuum pressure regulating valve

◇ Pressure range: -100–-1.3kPa

◇ Maximum flow rate: 240L/min

General -purpose



492 SVK series

Check valve

◇ Maximum blowing rate: 38.3-620 l/min

◇ Connection specification: M5-G1/2

General -purpose



506 MVRV series

Large flow vacuum regulating valve

◇ Maximum flow rate: 20 to 160m³/h

◇ Connecting thread: G1/ 2 to G11/2

General -purpose

Valve technology series
Product overview

AMILA

Valve technology



508 MTV series

Touch valve

◇ Connecting thread: G1/4 G1/2

General -purpose



512 MPVS series

Small pneumatic vacuum switch

◇ Air supply pressure: 2–8bar

◇ Connecting thread: G1/8

General -purpose



510 ZVS series

Quick blowing valve

◇ Maximum blowing rate: 160NL/min

◇ Connecting thread: G1/8 G1/4

General -purpose

Two-position three-way external pilot vacuum switching valve

MVV two-position three-way external pilot vacuum switching valve

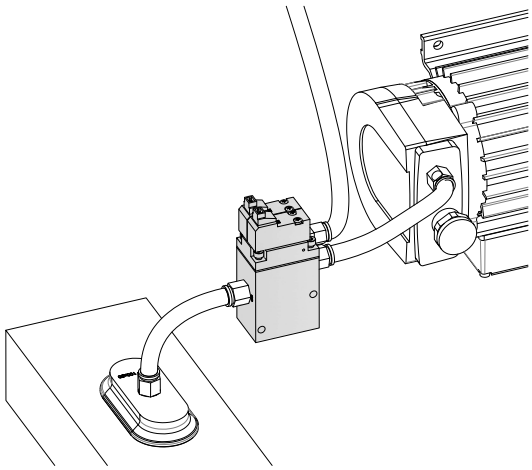
General -purpose



Introduction

- This valve is a two-position three-way pneumatic conical valve of constantly-on type or Normally closed type.
- This valve is applicable to the vacuum system needing quick air intake so as to restore to the atmospheric pressure.
- External pilot air pressure needed

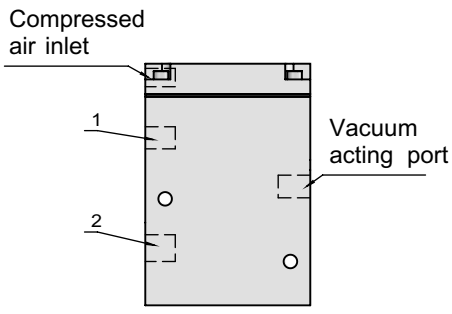
Application of MVV two-position three-way external pilot vacuum switching valve



Application

- Applicable to quickly-switched vacuum pump systems, e.g. robot-operated stacking, suctioning for bag opening, etc.

System design of MVV two-position three-way external pilot vacuum switching valve



Structure

- Normally open:Port 1 is vacuum pump port and port 2 pressure relief port
- Normally closed: Port 2 is vacuum pump port and port 1 pressure relief port

Two-position three-way external pilot vacuum switching valve

MVV two-position three-way external pilot vacuum switching valve

MVV two-position three-way external pilot vacuum switching valve purchase guide

MVV G1/4 - S

① ② ③

① Product series	② Vacuum port	③Solenoid valve type
MVV	G1/4-IG - G1/4 female thread G3/8-IG - G3/8 female thread G1/2-IG - G1/2 female thread G3/4-IG - G3/4 female thread G1-IG - G1 female thread G1 1/2-IG - G1 1/2 female thread Note: IG female thread	Null - No solenoid valve (controlled by external pneumatic valve) D - Single-coil solenoid valve S - Bistable solenoid valve

Technical parameters of MVV two-position three-way external pilot vacuum switching valve

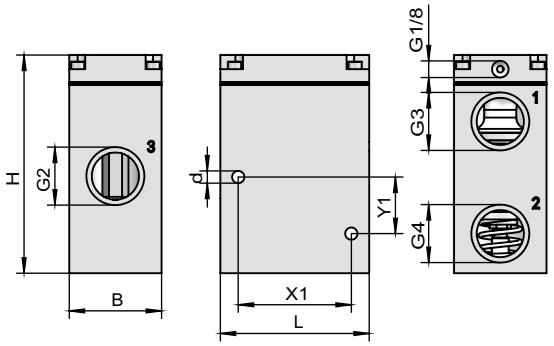
Model	Maximum flow rate m^3/h	Through-hole area mm^2	Control pressure bar	Weight Kg
MVV G1/4□	6	56.8	4…7	0.32
MVV G3/8□	10	103.8	4…7	0.31
MVV G1/2□	20	176	6…8	0.49
MVV G3/4□	40	314	6…8	1.06
MVV G1□	90	490	6…8	0.96
MVV G1 1/2□	230	1256	6…8	4.46

Two-position three-way external pilot vacuum switching valve

MVV two-position three-way external pilot vacuum switching valve

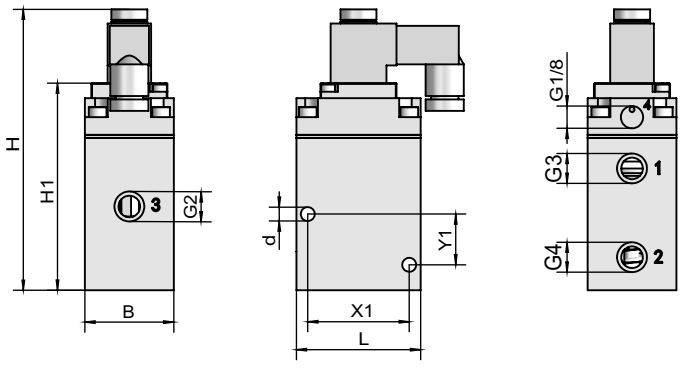
Design parameters of MVV two-position three-way external pilot vacuum switching valve

MVV □



Model	Size (mm)								
	B	d	G2	G3	G4	H	L	X1	Y1
MVV G1/4	35	5.5	G1/4-IG	G1/4-IG	G1/4-IG	75	49	40	20
MVV G3/8	35	5.5	G3/8-IG	G3/8-IG	G3/8-IG	75	49	40	20
MVV G1/2	39	6.5	G1/2-IG	G1/2-IG	G1/2-IG	91	62	45	20
MVV G3/4	49	6.5	G3/4-IG	G3/4-IG	G3/4-IG	115	79	60	30
MVV G1	49	6.5	G1-IG	G1-IG	G1-IG	115	79	60	30
MVV G1 1/2	90	8.5	G1 1/2-IG	G1 1/2-IG	G1 1/2-IG	175	130	100	49

MVV □ D



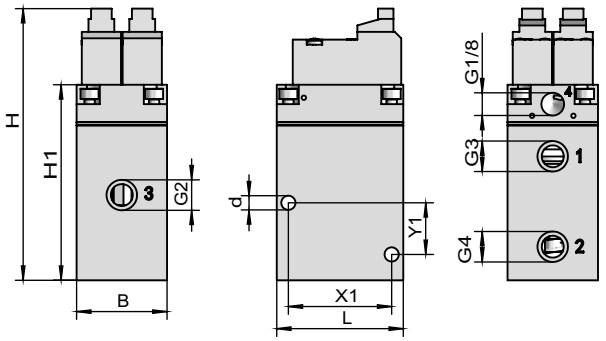
Model	Size (mm)									
	B	d	G2	G3	G4	H	H1	L	X1	Y1
MVV G1/4 D	35	5.5	G1/4-IG	G1/4-IG	G1/4-IG	110.7	81.6	49	40	20
MVV G3/8 D	35	5.5	G3/8-IG	G3/8-IG	G3/8-IG	110.7	81.6	49	40	20
MVV G1/2 D	39	6.5	G1/2-IG	G1/2-IG	G1/2-IG	126.7	97.6	62	45	20
MVV G3/4 D	49	6.5	G3/4-IG	G3/4-IG	G3/4-IG	150.7	121.6	79	60	30
MVV G1 D	49	6.5	G1-IG	G1-IG	G1-IG	150.7	121.6	79	60	30
MVV G1 1/2 D	90	8.5	G1 1/2-IG	G1 1/2-IG	G1 1/2-IG	210.7	181.6	130	100	49

Two-position three-way external pilot vacuum switching valve

MVV two-position three-way external pilot vacuum switching valve

Design parameters of MVV two-position three-way external pilot vacuum switching valve

MVV □ S



Model	Size (mm)									
	B	d	G2	G3	G4	H	H1	L	X1	Y1
MVV G1/4 S	35	5.5	G1/4-IG	G1/4-IG	G1/4-IG	105.2	75	49	40	20
MVV G3/8 S	35	5.5	G3/8-IG	G3/8-IG	G3/8-IG	105.2	75	49	40	20
MVV G1/2 S	39	6.5	G1/2-IG	G1/2-IG	G1/2-IG	121.5	91	62	45	20
MVV G3/4 S	49	6.5	G3/4-IG	G3/4-IG	G3/4-IG	145.2	115	79	60	30
MVV G1 S	49	6.5	G1-IG	G1-IG	G1-IG	145.2	115	79	60	30
MVV G1 1/2 S	90	8.5	G1 1/2-IG	G1 1/2-IG	G1 1/2-IG	205.2	175	130	100	49

Two-position three-way direct acting vacuum switching valve

MO two-position three-way direct acting vacuum switching valve

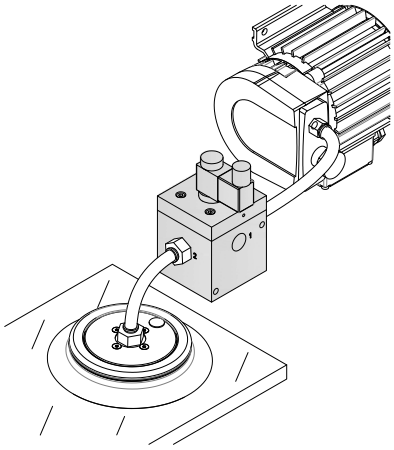
General -purpose



Introduction

- This two-position three-way vacuum switching valve is a two-position direct acting valve with conical valve element and of constantly-on type or Normally closed type.
- Since the valve cannot shift the hole position normally at small pressure difference, it cannot be used for low-vacuum applications.
- Without friction and internal dynamic stress, this valve has fast response speed and long life
- Direct acting valve element without external pilot pressure

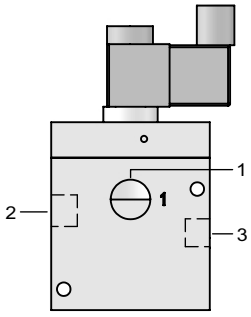
Application of MO two-position three-way direct acting vacuum switching valve



Application

- This valve is usually used to turn off the vacuum for a feeder and used for suction gripper equipped stackers, robots, bag openers and other applications needing quick response at the interval between suction and release, and can ensure the vacuum connection even in the event of power failure or no air pressure.
- Applicable to turning off the vacuum for a feeder and used for vacuum pump systems such as suction gripper equipped stackers, robot systems, bag openers, etc.

System design of MO two-position three-way direct acting vacuum switching valve



Structure

- Constantly-on type: Port 1 is pressure relief port, port 2 vacuum acting port, and port 3 vacuum pump port
- Normally closed type: Port 3 is pressure relief port, port 2 vacuum acting port, and port 1 vacuum pump port

Two-position three-way direct acting vacuum switching valve

MO two-position three-way direct acting vacuum switching valve

MO two-position three-way direct acting vacuum switching valve purchase guide

MO G1/2 NO

① ② ③

① Product series	② Vacuum port	③ Valve type
MO	G1/2-IG - G1/2 female thread G3/4-IG - G3/4 female thread G1-IG - G1 female thread G1 1/2-IG - G1 1/2 female thread Note: IG=Female thread	NO - Normally open NC - Normally closed

Technical parameters of MO two-position three-way direct acting vacuum switching valve

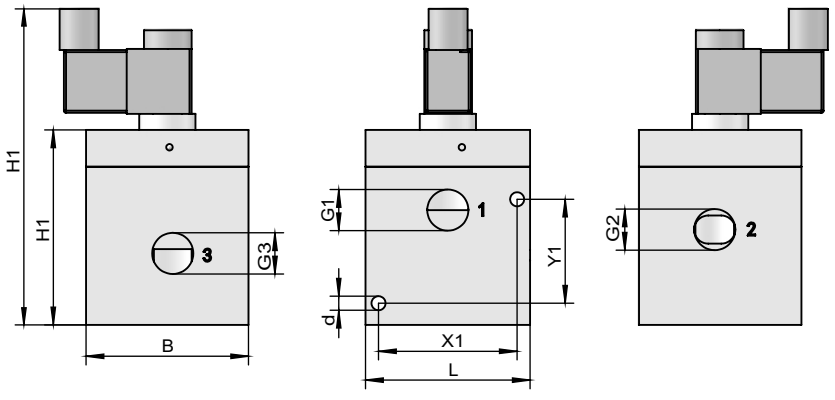
Model	Maximum flow rate m^3/h	Through-hole area mm^2	Range of application mbar abs	Weight Kg
MO G1/2 NC	20	176	850~0.5	1.53
MO G1/2 NO	20	176	850~0.5	1.53
MO G3/4 NC	40	314	850~0.5	1.5
MO G3/4 NO	40	314	850~0.5	1.5
MO G1 NC	90	490	850~0.5	1.91
MO G1 NO	90	490	850~0.5	1.91
MO G1 1/2 NC	230	1256	850~0.5	5.9
MO G1 1/2 NO	230	1256	850~0.5	5.9

Two-position three-way direct acting vacuum switching valve

MO two-position three-way direct acting vacuum switching valve

Design parameters of MO two-position three-way direct acting vacuum switching valve

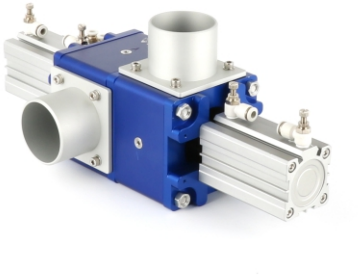
MO...



Model	Size (mm)									
	B	d	G1	G2	G3	H	H1	L	X1	Y1
MO G1/2 NC/NO	75	6.5	G1/2-IG	G1/2-IG	G1/2-IG	145.9	90	76	64	48
MO G3/4 NC/NO	75	6.5	G3/4-IG	G3/4-IG	G3/4-IG	145.9	90	76	64	48
MO G1 NC/NO	79	6.5	G1-IG	G1-IG	G1-IG	155.9	100	89	75	50
MO G1 1/2NC/NO	142	10.5	G1 1/2-IG	G1 1/2-IG	G1 1/2-IG	225.9	170	170	94	–

Large flow vacuum switching valve system
MPV vacuum switching valve system

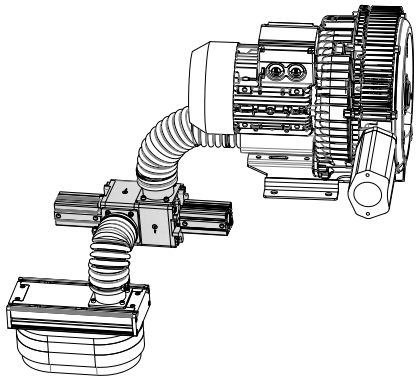
General -purpose



Introduction

- F3: Two-position three-way vacuum switching valve
- F4, 5 or 6: Switching valve with vacuum source pressure relief and vacuum acting port pressure relief functions
- F7: Combined switching valve with vacuum source pressure relief and vacuum acting port pressure relief functions
- F8: Large flow vacuum breaking port switching valve

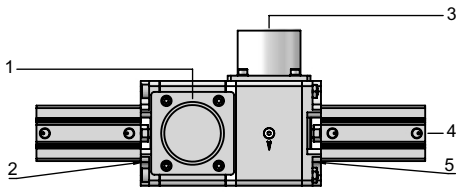
Application of MPV vacuum switching valve



Application

- Applicable to switching of large-area suction grippers and vacuum blower control systems

System design of MPV vacuum switching valve



Structure

- (1) Vacuum acting port
- (2) Vacuum acting pressure relief port
- (3) Vacuum source port
- (4) Cylinder
- (5) Vacuum source pressure relief port

MPV vacuum switching valve system purchase guide

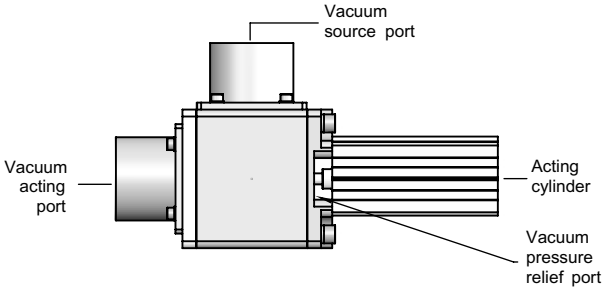
MPV D32 F4

① ② ③

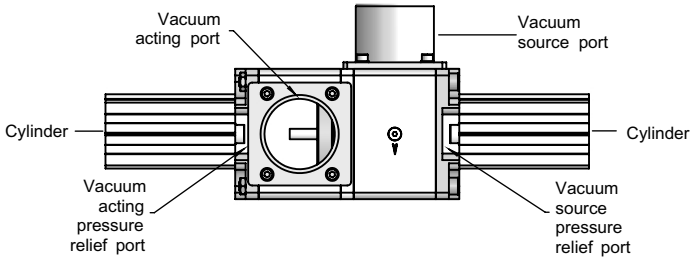
① Product series	② Vacuum port	③ Vacuum valve type
MPV	D32 - Nominal diameter:32 D60 - Nominal diameter:60	F3 F4 F5 F6 F7 F8

MPV vacuum switching valve system structure description

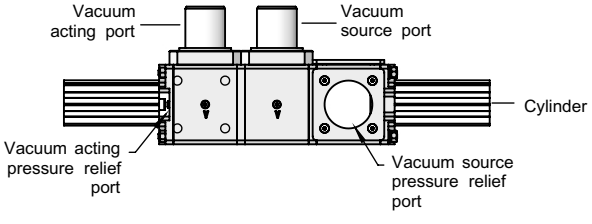
MPV-D32/60-F3



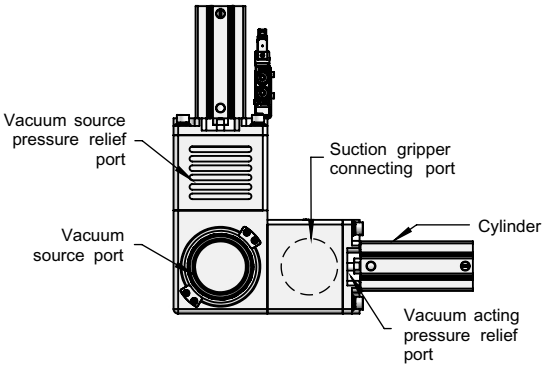
MPV-D32/60-F4



MPV-D32/60-F5

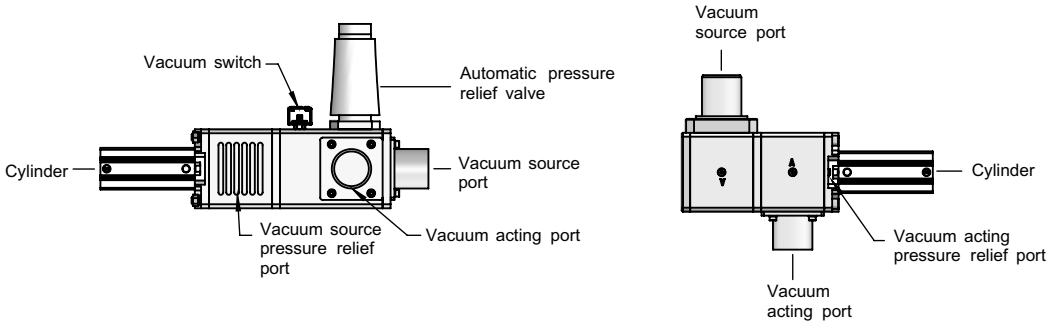


MPV-D32/60-F6

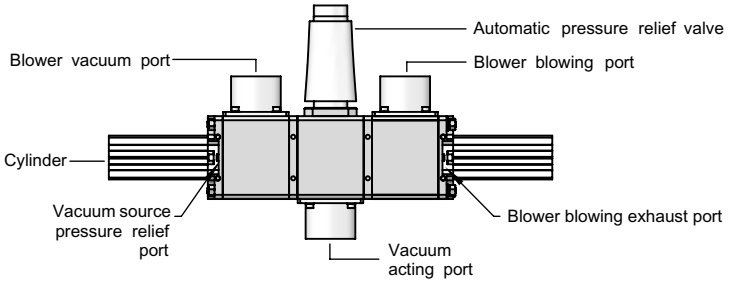


MPV vacuum switching valve system structure description

MPV-D32/60-F7

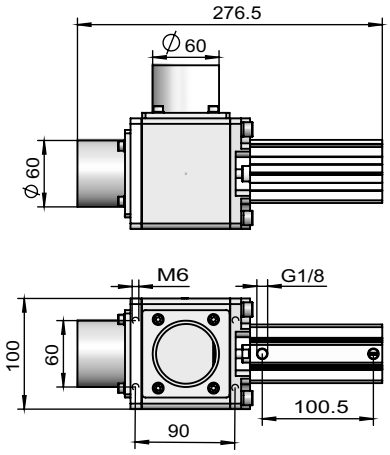


MPV-D32/60-F8

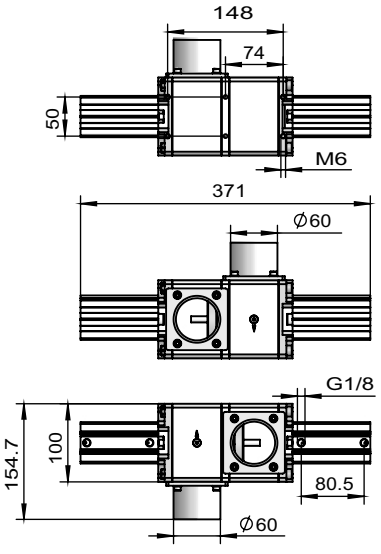


Design parameters of MPV vacuum switching valve system

MPV-D32/60-F3

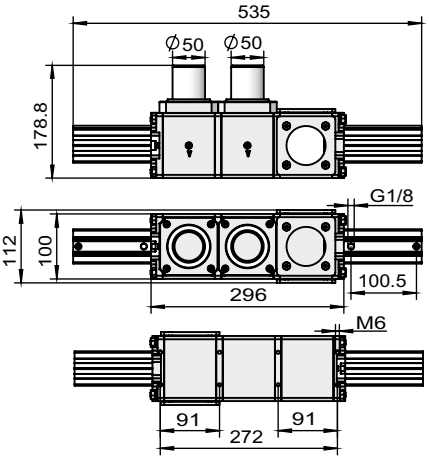


MPV-D32/60-F4

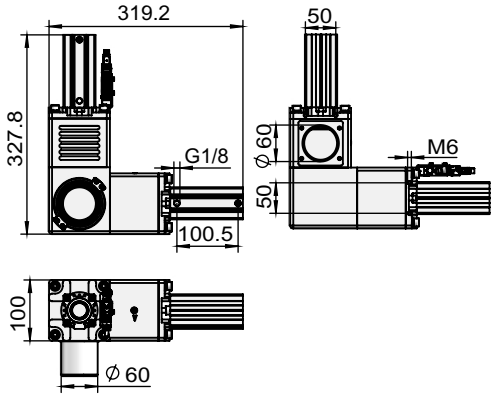


Design parameters of MPV vacuum switching valve system

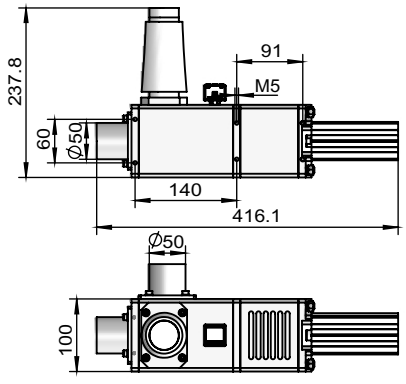
MPV-D32/60-F5

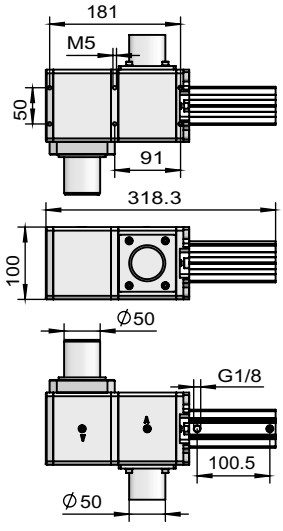


MPV-D32/60-F6

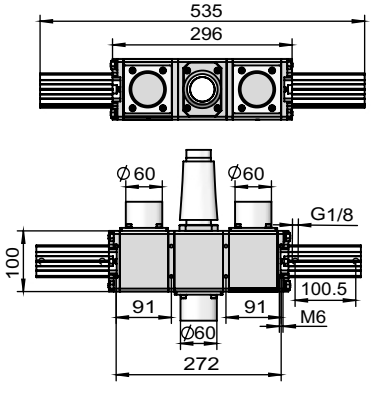


MPV-D32/60-F7





MPV-D32/60-F8



Logic valve
Logic valve MP2V

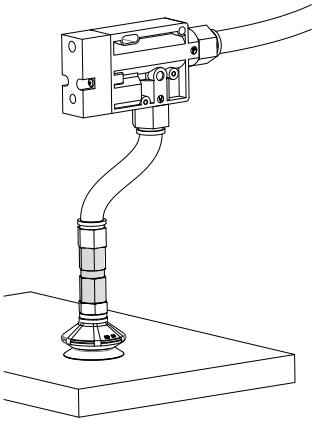
General -purpose



Introduction

- Avoids the influence on the whole vacuum system caused by that suction cup fails to grip the workpiece
- In the same vacuum system, workpieces of different sizes can be gripped repeatedly
- Spring loaded check valve not falling while the workpiece is suctioned.

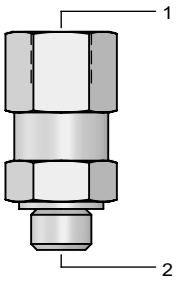
Application of MP2V logic valve



Application

- Applicable to handling electronic products with porous, uneven surfaces, such as circuit boards, electronic elements, etc.

System design of MP2V logic valve



Structure

- (1) Vacuum source port
- (2) Suction cup connecting port

AMILA

MP2V logic valve purchase guide

MP2V - A5 - 03
① ② ③

①Product series	② Thread size		③ Fixing hole size
MP2V	A5 - M5X0.8 female/male thread	B5 - M5X0.8 male/female thread	03 - 0.3mm
	A8 - M8X1.25 female/male thread	B6 - M6X1.0 male/female thread	05 - 0.5mm
	A01 -R1/8 female/male thread	B01 -R1/8 male/female thread	07 - 0.7mm
	AG1 -G1/8 female/male thread	BG1 - G1/8 male/female thread	10 - 1.0mm
	A5A5 - M5X0.8 male thread	B5B5 - M5X0.8 female thread	
	A01A01 - R1/8 male thread	B01B01 - R1/8 female thread	
	AG1AG1- G1/8 male thread	BG1BG1- G1/8 female thread	

Note: The thread sizes corresponding to the fixing hole sizes are shown in the table below.

Model specifications of MP2V logic valve

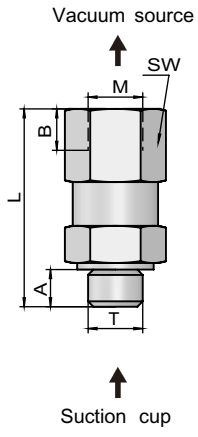
Model	Fixing hole size			
	03 - 0.3mm	05 - 0.5mm	07 - 0.7mm	10 - 1.0mm
MP2V-A5(B5)-□	●	●	●	-
MP2V-A8(B6)-□	-	●	●	●
MP2V-A01(B01)-□	-	●	●	●
MP2V-AG1(BG1)-□	-	●	●	●
MP2V-A5A5(B5B5)-□	●	●	●	-
MP2V-A01A01(B01B01)-□	-	●	●	●
MP2V-AG1AG1(BG1BG1)-□	-	●	●	●

Technical parameters of MP2V logic valve

Suction gripper connection size	Fixed throttling hole diameter mm	Pressure range MPa	Vacuum pressure range KPa	Operating temperature ℃	Filtration precision μm	Minimum acting flow rate NL/min	Connected suction gripper diameter mm
M5,M6	0.3	0~0.7	-100~0	5~60	40	3	≤25
	0.5	0~0.7	-100~0	5~60	40	5	
	0.7	0~0.7	-100~0	5~60	40	8	
M8,R1/8,Rc1/8, G1/8	0.5	0~0.7	-100~0	5~60	40	5	32~50
	0.7	0~0.7	-100~0	5~60	40	8	
	1.0	0~0.7	-100~0	5~60	40	16	

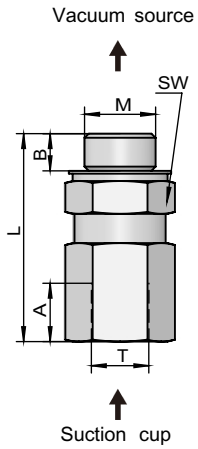
Design parameters of MP2V logic valve

Female thread –male thread



Model	Size (mm)						
	A	B	SW	M	L	T	Weight g
MP2V-A5-□	3.4	4.5	8	M5×0.8	18.1	M5×0.8	6
MP2V-A8-□	5.9	8	12	M8×1.25	26	M8×1.25	18
MP2V-A01-□	3.1	6.2	12	R1/8	25.7	Rc1/8	18
MP2V-AG1-□	5.1	8	13	G1/8	27.6	G1/8	23

Male thread –female thread

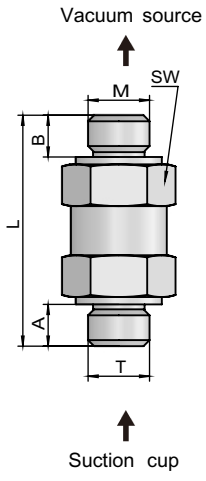


Model	Size (mm)						
	A	B	SW	M	L	T	Weight g
MP2V-B5-□	5.5	3.4	8	M5×0.8	20	M5×0.8	7
MP2V-B6-□	5	4.5	8	M6×1.0	20.7	M6×1.0	7
MP2V-B01-□	6.2	3.1	12	Rc1/8	26.6	R1/8	19
MP2V-BG1-□	8	5.1	13	G1/8	28.5	G1/8	24

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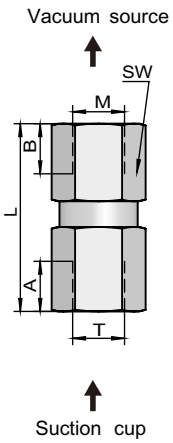
Design parameters of MP2V logic valve

Male thread –male thread



Model	Size (mm)						
	A	B	SW	M	L	T	Weight g
MP2V-A5A5-□	3.4	3.4	8	M5×0.8	18.1	M5×0.8	6
MP2V-A01A01-□	3.1	3.1	12	R1/8	26.4	R1/8	19
MP2V-AG1AG1-□	5.1	5.1	13	G1/8	26.2	G1/8	22

Female thread –female thread



Model	Size (mm)						
	A	B	SW	M	L	T	Weight g
MP2V-B5B5-□	5.5	5.5	8	M5×0.8	19.3	M5×0.8	7
MP2V-B01B01-□	6.2	6.2	12	Rc1/8	26	Rc1/8	17
MP2V-BG1BG1-□	8	8	13	G1/8	30	G1/8	24

Check valve
SVK check valve

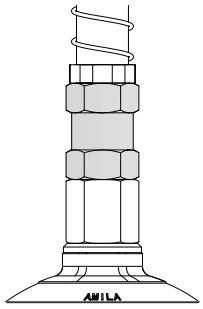
General -purpose



Introduction

- Ball valve, which is used to turn off the unused suction cup, and can hold system vacuum but cannot be turned over
- Acting according to volume flow changes, the bypass balancing function can compensate for small leakage
- A full range of sizes suitable for high-flow applications
- The top male thread type is applicable to various ordinary suction cups
- The top male thread type (SVK) or bottom male thread type (SVKG) are applicable to various ordinary suction cups

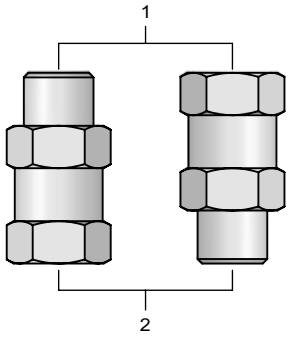
Application of SVK check valve



Application

- Used for applications with multiple suction cups in a vacuum system so as to preExhaust port the influence on the system caused by that suction cup fails to grip the workpiece or is unexpectedly detached from the workpiece
- Isolate the suction cup not suctioning the workpiece from the vacuum system so as to hold the vacuum degree of the system
- The same gripping system can be used to handle workpieces in different shapes and of different sizes and therefore can be repeatedly used for different applications.

System design of SVK check valve



Structure

- (1) Vacuum source port
- (2) Suction cup connecting port

Check valve
SVK check valve

AMILA

SVK check valve purchase guide

SVK G M5-IG

① ② ③

① Product series	② Top thread type	③ Bottom thread specification	
SVK	Null – Top male thread G - Top female thread Note: When null is selected, the "③Bottom thread specification" item can only be "female thread". When "G" is selected, the "③Bottom thread specification" item can only be "male thread".	M5-IG - M5 female thread G1/8-IG - G1/8 female thread G1/4-IG - G1/4 female thread G3/8-IG - G3/8 female thread G1/2-IG - G1/2 female thread Note: IG female thread; AG male thread	M5-AG - M5male thread G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1/2-AG - G1/2 male thread

Model specifications of SVK check valve

Model	Bottom thread specification									
	M5-IG	G1/8-IG	G1/4-IG	G3/8-IG	G1/2-IG	M5-AG	G1/8-AG	G1/4-AG	G3/8-AG	G1/2-IG
SVK□	●	●	●	●	●	-	-	-	-	-
SVKG□	-	-	-	-	-	●	●	●	●	●

Technical parameters of SVK check valve

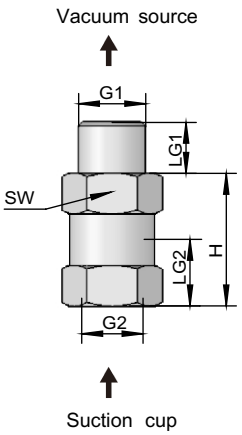
Model	Suction flow rate required for 0.3bar l/min	Suction flow rate required for 0.6bar l/min	Maximum blowing flow rate l/min	Weight g
SVK M5-IG	2.0	3.7	38.3	2.2
SVK G1/8-IG	3.7	7.2	261.7	11.2
SVK G1/4-IG	4.0	7.8	365.0	17.5
SVK G3/8-IG	11.7	23.3	620.0	30.3
SVK G1/2-IG	11.7	23.3	616.7	47.4
SVKG M5-AG	2.0	3.7	38.3	2.2
SVKG G1/8-AG	3.7	7.2	261.7	11.2
SVKG G1/4-AG	4.0	7.8	365.0	17.5
SVKG G3/8-AG	11.7	23.3	620.0	30.3
SVKG G1/2-AG	11.7	23.3	616.7	47.4

Check valve
SVK check valve

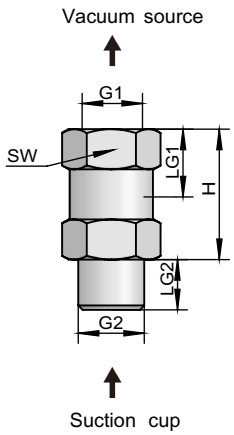
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Design parameters of SVK check valve

SVK M5 to G1/2 IG



SVKG M5 to G1/2 IG



Model	Size (mm)					
	G1	**G2**	**H**	**LG1**	**LG2**	**SW**
SVK M5-IG	M5-AG	M5-IG	15.5	4.5	4.5	8
SVK G1/8-IG	G1/8-AG	G1/8-IG	26.0	8.0	8.5	14
SVK G1/4-IG	G1/4-AG	G1/4-IG	26.0	10.0	11.0	17
SVK G3/8-IG	G3/8-AG	G3/8-IG	29.0	10.0	12.0	22
SVK G1/2-IG	G1/2-AG	G1/2-IG	29.0	12.0	14.0	27
SVKG M5-AG	M5-IG	M5-AG	20.0	4.5	4.5	8
SVKG G1/8-AG	G1/8-IG	G1/8-AG	26.0	8.5	8.0	14
SVKG G1/4-AG	G1/4-IG	G1/4-AG	26.0	11.0	10.0	17
SVKG G3/8-AG	G3/8-IG	G3/8-AG	29.0	12.0	10.0	22
SVKG G1/2-AG	G1/2-IG	G1/2-AG	29.0	14.0	12.0	27

Check valve
ISV check valve

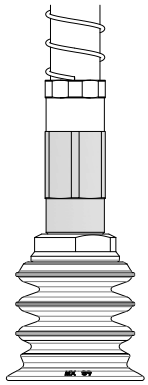
General -purpose



Introduction

- Use to arrange multiple suction cups in parallel so as to preExhaust port vacuum dissipation due to one or a number of suction grippers in inadequate contact
- Grip products placed randomly
- Compressed air and energy saving; suction can only be achieved through 100% contact
- Can be turned over by 180°
- keep vacuum

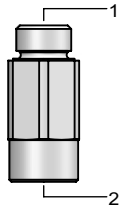
Application of ISV check valve



Application

- Use to handle porous workpieces such as PCBs
- Turn off a single suction cup unused so as to keep the vacuum degree of the whole suction gripping system

System design of ISV check valve



Structure

- (1) Vacuum source port
- (2) Suction cup connecting port

Check valve
ISV check valve

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ISV check valve purchase guide

ISV M5-IG

① ②

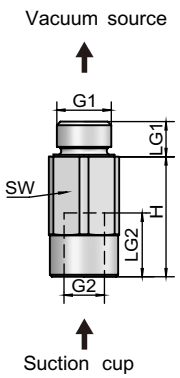
① Product series	② Bottom thread	
ISV	M5-IG - M5 female thread	G1/8-IG - G1/8 female thread
	M6-IG - M6 female thread	G1/4-IG - G1/4 female thread
	M10-IG - M10 female thread	G3/8-IG - G3/8 female thread
	Note: IG female thread	

Technical parameters of ISV check valve

Model	Suction flow rate required for 0.5bar l/min	Available jet pulse bar	Operating pressure bar	Weight g
ISV M5-IG	1.0	≤8	-0.95...0	4.0
ISV M6-IG	2.0	≤8	-0.95...0	14
ISV M10-IG	2.0	≤8	-0.95...0	18
ISV G1/8-IG	2.0	≤8	-0.95...0	9.0
ISV G1/4-IG	1.6	≤8	-0.95...0	16
ISV G3/8-IG	1.5	≤8	-0.95...0	33

Design parameters of ISV check valve

ISV M5 to G3/8



Model	Size (mm)					
	G1	**G2**	**LG1**	**LG2**	**H**	**SW**
ISV M5-IG	M5	M5	4.3	5.5	10.7	8
ISV M6-IG	M6	M6	5	6	18	14
ISV M10-IG	M10	M10	4.7	10	18.5	17
ISV G1/8-IG	G1/8	G1/8	6.5	16.7	29.5	13
ISV G1/4-IG	G1/4	G1/4	8	15.2	29.5	17
ISV G3/8-IG	G3/8	G3/8	9	16.9	33	22

Throttle valve
SW throttle valve

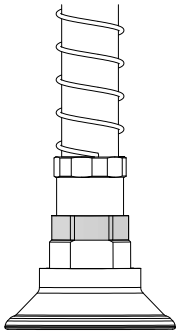
General -purpose



Introduction

- No movable element, robust structure, long service life
- Shrinks cross section to achieve throttling; can automatically shrink the cross section of vacuum channel; especially applicable to handling breathable workpieces
- Small-sized and applicable to narrow space

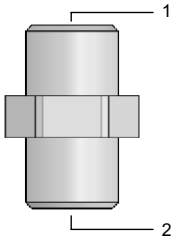
Application of SW throttle valve



Application

- Used to handle breathable workpieces
- Reduces the volume flow rate of the suction gripper not in contact with the workpiece so as to hold the vacuum degree of the system

System design of SW throttle valve



Structure

- (1) Vacuum source port
- (2) Suction cup connecting port

Throttle valve
SW throttle valve

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SW throttle valve purchase guide

SW 25 G1/8-AG
① ② ③

① Product series	② Nominal diameter		③ Top male thread
SW	25 - 0.25mm	90 - 0.9mm	G1/8-AG - G1/8 male thread
	40 - 0.4mm	100 - 1.0mm	G1/4-AG - G1/4 male thread
	50 - 0.5mm	110 - 1.1mm	Note: AG male thread
	60 - 0.6mm	120 - 1.2mm	
	70 - 0.7mm	150 - 1.5mm	
	80 - 0.8mm	200 - 2.0mm	

Model specifications of SW throttle valve

Model	Top thread specification	
	G1/8-AG	G1/4-AG
SW25□	●	-
SW40□	●	●
SW50□	●	●
SW60□	●	●
SW70□	●	●
SW80□	●	●
SW90□	●	●
SW100□	●	●
SW110□	●	●
SW120□	●	●
SW150□	-	●
SW200□	-	●

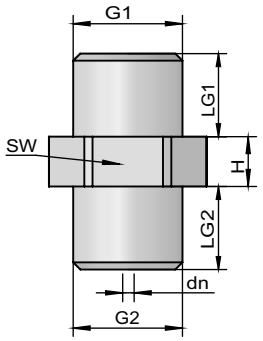
Technical parameters of SW throttle valve

Model	Nominal diameter mm	Suction flow rate required for 0.3bar l/min	Suction flow rate required for 0.6bar l/min
SW25□	0.25	0.2	0.3
SW40□	0.4	1.0	1.3
SW50□	0.5	2.2	2.5
SW60□	0.6	3.0	3.1
SW70□	0.7	4.0	4.3
SW80□	0.8	4.9	5.3
SW90□	0.9	6.5	7.0
SW100□	1.0	7.8	8.4
SW110□	1.1	10.3	10.5
SW120□	1.2	12.3	12.7
SW150□	1.5	22.0	23.4
SW200□	2.0	34.1	36.4

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Design parameters of SW throttle valve

SW 25 to 200



Model	Size (mm)						
	dn	G1	G2	H	LG1	LG2	SW
SW 25 G1/8-AG	0.25	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 40 G1/8-AG	0.4	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 50 G1/8-AG	0.5	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 60 G1/8-AG	0.6	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 70 G1/8-AG	0.7	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 80 G1/8-AG	0.8	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 90 G1/8-AG	0.9	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 100 G1/8-AG	1	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 110 G1/8-AG	1.1	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 120 G1/8-AG	1.2	G1/8-AG	G1/8-AG	6	9.5	9.5	14
SW 40 G1/4-AG	0.4	G1/4-AG	G1/4-AG	6	10	10	17
SW 50 G1/4-AG	0.5	G1/4-AG	G1/4-AG	6	10	10	17
SW 60 G1/4-AG	0.6	G1/4-AG	G1/4-AG	6	10	10	17
SW 70 G1/4-AG	0.7	G1/4-AG	G1/4-AG	6	10	10	17
SW 80 G1/4-AG	0.8	G1/4-AG	G1/4-AG	6	10	10	17
SW 90 G1/4-AG	0.9	G1/4-AG	G1/4-AG	6	10	10	17
SW 100 G1/4-AG	1	G1/4-AG	G1/4-AG	6	10	10	17
SW 110 G1/4-AG	1.1	G1/4-AG	G1/4-AG	6	10	10	17
SW 120 G1/4-AG	1.2	G1/4-AG	G1/4-AG	6	10	10	17
SW 150 G1/4-AG	1.5	G1/4-AG	G1/4-AG	5	9	9	17
SW 200 G1/4-AG	2	G1/4-AG	G1/4-AG	5	9	9	17

Non-Return valve

RSV Non-Return valve

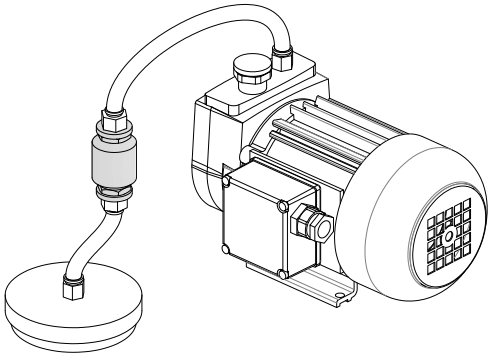
General -purpose



Introduction

- Non-Return valve as valve seat, used to turn off vacuum piping, e.g. holds the vacuum degree of the system during unexpected power failure
- Wide nominal diameter range; extremely low to extremely high flow rate
- Small-sized and applicable to narrow space

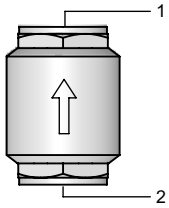
Application of RSV Non-Return valve



Application

- Can hold the vacuum degree of the whole handling system during power failure or vacuum generator failure
- Energy saving function for handling non-breathable workpieces
- Mounted at any position

System design of RSV Non-Return valve



Structure

- (1) Vacuum source port
- (2) Suction cup connecting port

RSV Non-Return valve purchase guide

RSV G3/8-IG
① ②

① Product series	② Vacuum port	
RSV	G3/8-IG	- G3/8 female thread
	G1/2-IG	- G1/2 female thread
	G3/4-IG	- G3/4 female thread
	G1-IG	- G1 female thread
	G1-1/4-IG	- G1-1/4 female thread
	G1-1/2-IG	- G1-1/2 female thread
	G2-IG	- G2 female thread

Note: IG=Female thread

Technical parameters of RSV Non-Return valve

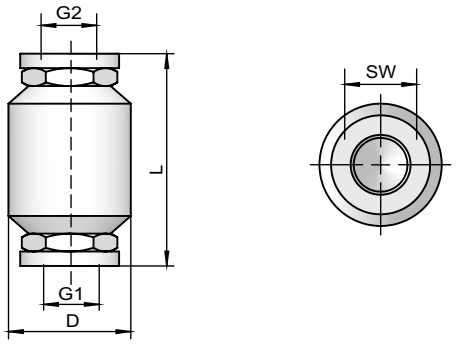
Model	Nominal diameter mm	Nominal flow rate l/min	Operating pressure mbar	Operating temperature °C	Weight g
RSV-G3/8-IG	14	333	20	-20…100	180
RSV-G1/2-IG	18	433	20	-20…100	190
RSV-G3/4-IG	20	750	20	-20…100	270
RSV-G1-IG	28	1250	20	-20…100	490
RSV-G1-1/4-IG	36	2083	20	-20…100	740
RSV-G1-1/2-IG	42	3333	20	-20…100	980
RSV-G2-IG	54	5833	20	-20…100	1100

Non-Return valve
RSV Non-Return valve

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Design parameters of RSV Non-Return valve

RSV □



Model	Size (mm)				
	D	**G1**	**G2**	**L**	**SW**
RSV-G3/8-IG	34	G3/8-IG	G3/8-IG	59	23
RSV-G1/2-IG	34	G1/2-IG	G1/2-IG	62	27
RSV-G3/4-IG	41	G3/4-IG	G3/4-IG	69	33
RSV-G1-IG	52	G1-IG	G1-IG	84	40
RSV-G1-1/4-IG	63	G1-1/4-IG	G1-1/4-IG	88	50
RSV-G1-1/2-IG	71	G1-1/2-IG	G1-1/2-IG	96	50
RSV-G2-IG	87	G2-IG	G2-IG	100	70

Vacuum pressure regulating valve

IRV vacuum pressure regulating valve

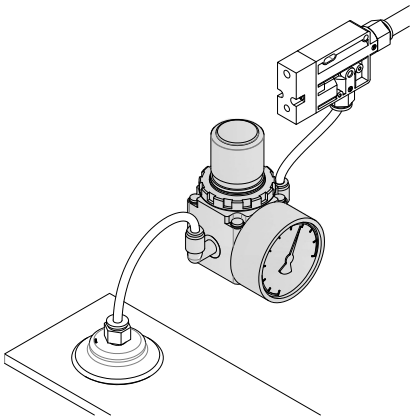
General -purpose



Introduction

- Lightweight, applicable to operating stations with limited installation position
- Integrated with plug-in joint
- Simple settings, high repetition precision

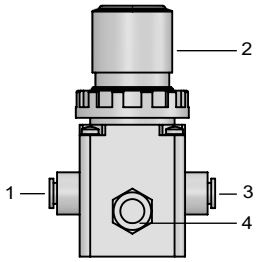
Application of IRV vacuum pressure regulating valve



Application

- Used to regulating the pressure of vacuum piping, e.g. solar cell suction station

System design of MPV vacuum pressure regulating valve



Structure

- (1) Vacuum port
- (2) Pressure regulating knob
- (3) Operating port
- (4) Rc1/8 Vacuum meter port

Vacuum pressure regulating valve

IRV vacuum pressure regulating valve

AMILA

IRV vacuum pressure regulating valve purchase guide

IRV 10 - L - C08 B G

① ② ③ ④ ⑤ ⑥

① Product series	② Specification	③ Plug-in joint type	④ Connected pipe diameter
IRV	10 - Maximum flow: 140L/min 20 - Maximum flow: 240 L/min Note: Specification 10 can only match connected pipe C06 and C08	H - Straight joint L - Right angle elbow	C06 - φ6mm C08 - φ8mm C10 - φ10mm
	⑤ Optional holder	⑥ Vacuum meter	
	Null - No holder B - Holder-equipped L - Base-equipped	Null - No vacuum meter G - Vacuum meter (mechanical) equipped	

Model specifications of vacuum pressure regulating valve fittings

Model	Plug-in joint type		Connected pipe diameter		
			C06 - Φ6mm	C08 - Φ8mm	C10 - Φ10mm
IRV 10...	●	●	●	●	-
IRV 20...	●	●	●	●	●

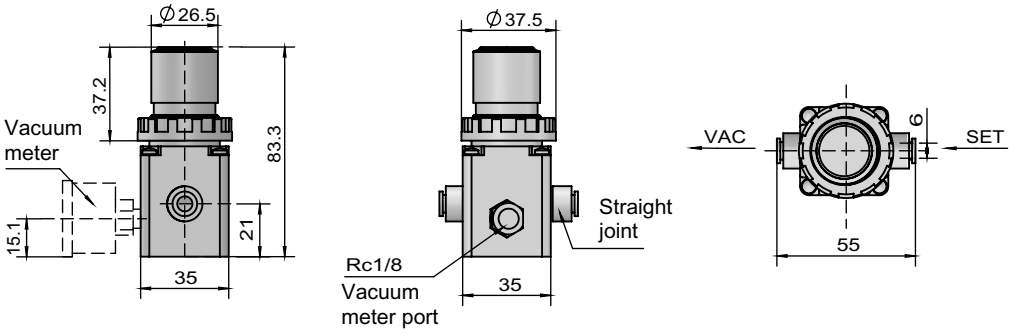
Plug-in joint model		Applicable vacuum pressure regulating valve
H - Straight joint	L - Right angle elbow	
KQ10H-C6	KQ10L-C6	IRV 10...
KQ10H-C8	KQ10L-C8	IRV 10...
KQ20H-C6	KQ20L-C6	IRV 20...
KQ20H-C8	KQ20L-C8	IRV 20...
KQ20H-C10	KQ20L-C10	IRV 20...

Technical parameters of IRV vacuum pressure regulating valve

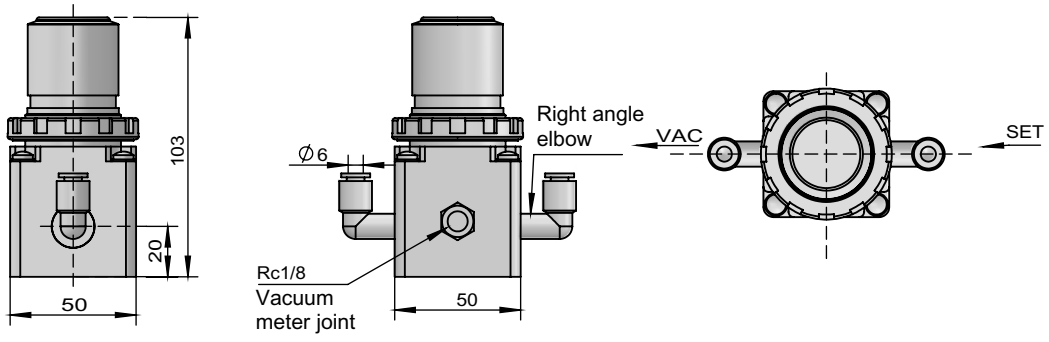
Model	Pressure range	Operating temperature	Knob adjustment precision	Air suction flow rate
	kPa	℃	kPa	L/min
IRV...	-100~-1.3	5~60	Less than 0.13	0.6

IRV vacuum pressure regulating valve purchase guide

IRV 10...



IRV 20...



Large flow vacuum regulating valve

MVRV vacuum regulating valve

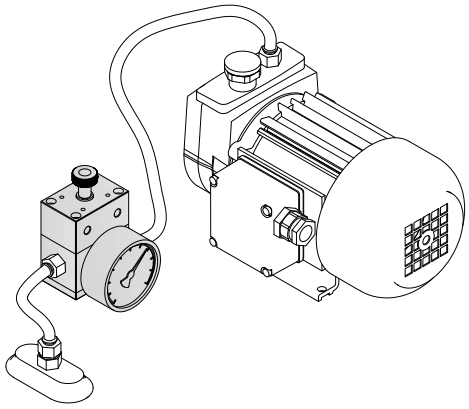
General -purpose



Introduction

- The product is mainly used in central control type factories with workshops needing different vacuum degree, or for applications needing the pressure at each suctioning position to be regulated.

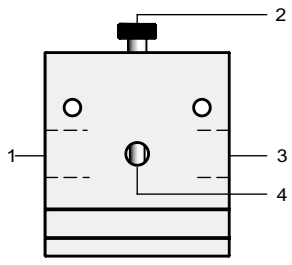
Application of MVRV vacuum regulating valve



Application

- Mainly used for applications needing different vacuum degree for the same air source and requiring adjustment in accordance with different vacuum needs

System design of MVRV vacuum regulating valve



Structure

- (1) Vacuum pump port
- (2) Adjustment screw
- (3) Suction gripper connecting port
- (4) Vacuum detection port

Large flow vacuum regulating valve
MVRV vacuum regulating valve

AMILA

MVRV vacuum regulating valve purchase guide

MVRV G1/2
① ②

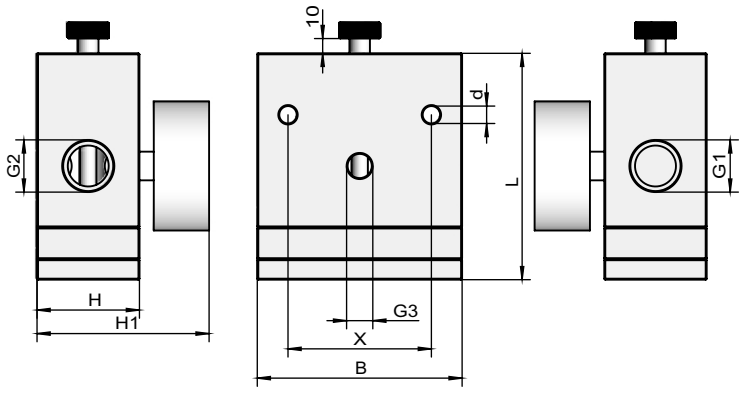
① Product series	② Vacuum port
MVRV	G1/2-IG - G1/2 female thread G1-IG - G1 female thread G1 1/2-IG - G1 1/2 female thread Note: IG female thread

Technical parameters of MVRV vacuum regulating valve

Model	Maximum flow rate m³/h	Adjustment range -mbar	Operating temperature ℃	Weight kg
MVRV G1/2	20	980~1	-10~80	2.07
MVRV G1	80	980~1	-10~80	3.74
MVRV G1 1/2	160	980~1	-10~80	5.54

Design parameters of MVRV vacuum regulating valve

MVRV □



Model	Size (mm)								
	B	d	G1	G2	G3	H	H1	L	X
MVRV G1/2	120	8.5	G1/2-IG	G1/2-IG	G1/4-IG	60	96	105	90
MVRV G1	120	8.5	G1-IG	G1-IG	G1/4-IG	100	136	118	90
MVRV G1 1/2	160	8.5	G1 1/2-IG	G1 1/2-IG	G1/4-IG	99	135	131.5	130

Touch valve

MTV touch valve

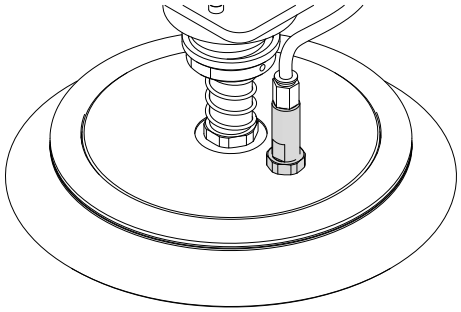
General -purpose



Introduction

- Can sense whether or not the product is in contact with the workpiece; If not, a vacuum system cannot be formed.

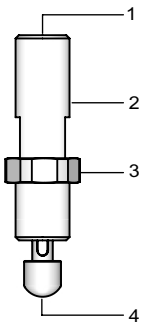
Application of MTV sensitive touch valve



Application

- Used for applications with suction cups not always be in contact with workpieces
- Mechanical sensing, through which the vacuum loop can only be turned on when the suction gripper is in contact with the workpiece
- Can be mounted at any position

Structure of MTV sensitive touch valve



Structure

- (1) Vacuum source port
- (2) Main body
- (3) Locking nut
- (4) Contact point

Touch valve
MTV touch valve

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MTV sensitive touch valve purchase guide

MTV - G1/4-AG
① ②

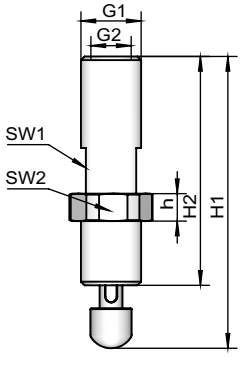
① Product series	② Specification
MTV	G1/4-AG - G1/4 male thread G1/2-AG - G1/2 male thread Note: AG male thread

Technical parameters of MTV sensitive touch valve

Model	Mounting nut	Start elastic force N	Unit weight g
MTV-G1/4-AG	G1/4	5	41.5
MTV-G1/2-AG	G1/2	6.6	96.5

Design parameters of MTV sensitive touch valve

MTV-□



Model	Size (mm)						
	G1	**G2**	**H1**	**H2**	**h**	**SW1**	**SW2**
MTV-G1/4-AG	G1/4	G1/8	64	50	6	11	17
MTV-G1/2-AG	G1/2	G3/8	68.5	54.5	8	18	27

Quick blowing valve

ZVS quick blowing valve

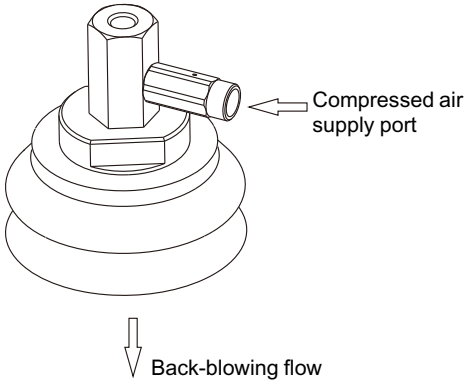
General -purpose



Introduction

- Can be mounted to the end of the suction cups to ffeectively seal vacuum or break vacuum under positive pressure inputted
- Low start pressure, stable and quick blowing even when multiple products are simultaneously used on-site
- Mounted to the end of vacuum system; quick vacuum breaking response

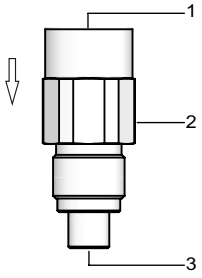
Application of ZVS quick blowing valve



Application

- Can quickly blow air into the vacuum system so as to break vacuum
- Mounted to the end of the vacuum system, while the back-blowing flow can clean the suction cups

Structure of ZVS quick blowing valve



Structure

- (1) Compressed air inlet
- (2) Main body
- (3) Exhaust port

Quick blowing valve
ZVS quick blowing valve

AMILA

ZVS quick blowing valve purchase guide

ZVS - G1/4-IG

① ②

① Product series	②Air supply port connection specification	③ Vent connection specification
ZVS	G1/8-IG - G1/8 Female thread G1/4-IG - G1/4 Female thread	G1/8 male thread G1/4 male thread

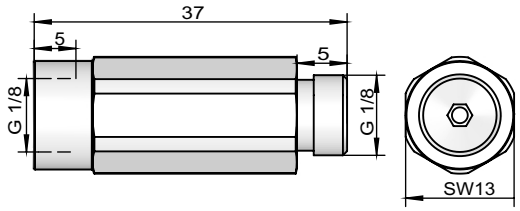
Note: IG female thread

Technical parameters of ZVS quick blowing valve

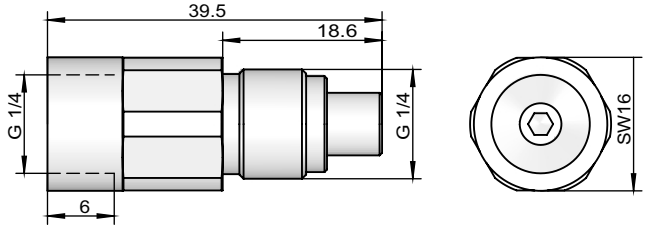
Model	Air supply pressure range bar	Maximum blowing flow rate NL/min	Operating temperature ℃	weight g
ZVS-G1/8-IG	3.0~7.0	90~160	-10~80	12.9
ZVS-G1/4-IG	3.0~7.0	90~160	-10~80	15.1

Design parameters of ZVS quick blowing valve

ZVS-G1/8-IG



ZVS-G1/4-IG



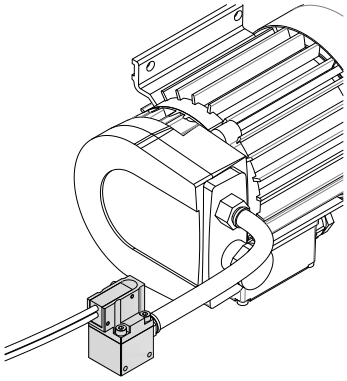
Small pneumatic vacuum switch

MPVS small pneumatic vacuum switch

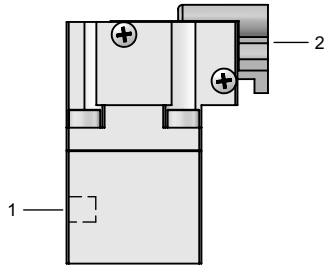
General -purpose



Application of MPVS small pneumatic vacuum switch



System design of MPVS small pneumatic vacuum switch



Introduction

- Can convert a vacuum model into a pneumatic model
- Can set different vacuum ranges with the adjustment screw on the valve

Application

- Applicable to fully pneumatic handling, e.g. spreader, suction crane, etc.

Structure

- (1) Vacuum port
- (2) Compressed air inlet

Small pneumatic vacuum switch

MPVS small pneumatic vacuum switch

MPVS vacuum regulating valve purchase guide

MPVS G1/8 NO

① ② ③

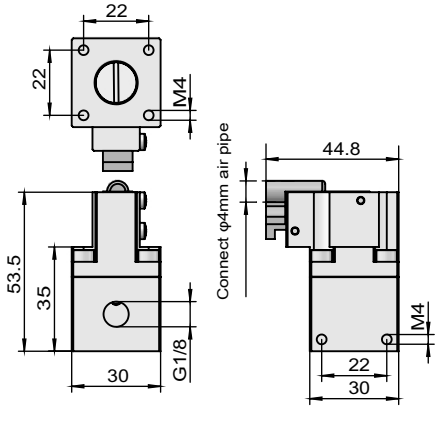
① Product series	② Vacuum joint	③ Valve type
MPVS	G1/8-IG - G1/8 female thread Note: IG female thread	NO - Normally open NC - Normally closed

Technical parameters of MPVS vacuum regulating valve

Model	Adjustment range mbar abs	Fixed pressure difference mbar	Repeatability mbar	Static signal	Air supply pressure bar	Air consumption at 6bar NL/S	Operating temperature °C	Weight g
MPVS G1/8 NO	900…40	70	±5	Normally open	2…8	1.2	-10…60	102
MPVS G1/8 NC	930…50	70	±5	Normally closed	2…8	1.2	-10…60	104

Design parameters of MPVS vacuum regulating valve

MPVS...



Vacuum accessory series

Product overview

Vacuum accessories



515 Vacuum filter
◇ Nominal: 45-350 l/min
◇ Filtration precision: 5μm

General -purpose



518 VVF series
Vacuum filter
◇ Nominal flow rate: 27-49N/min
◇ Filtration precision: 10μm

General -purpose | 3C product (Display film) | 3C product (PCBs)



520 MDF series
Vacuum filter
◇ Nominal: 150--5100 l/min
◇ Filtration precision: 10μm



523 MTF series
Vacuum filter
◇ Nominal flow rate: 32-300m3/h
◇ Filtration precision: 10μm

General -purpose



526 MP20 series
Vacuum switch
◇ Pressure range: -100.0-100.0kPa
◇ Output type: 1NPN/PNP

General -purpose



530 ZPMR series
Manometer
◇ Pressure range: Type-V-100-0kPa

General -purpose



532 ZSA series
Silencer
◇ Connection specification: G1/8-G1

General -purpose



534 VSL series
Vacuum/compressed air hose
◇ Operating pressure range: 0.2-7.0bar
◇ Minimum inner diameter of hose: 32mm

General -purpose



536 SSD series
Stainless steel hose clamp
◇ Band width: 12mm
◇ Band thickness: 0.68mm

General -purpose

Vacuum filter
ZFC vacuum filter

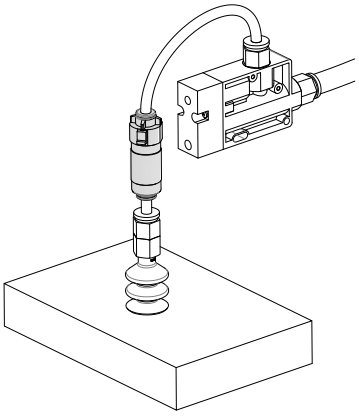
General -purpose



Introduction

- It is tube-shaped and holder-equipped and can be mounted easily. A hose can be directly inserted into it.
- Small size, light weight
- Customers can purchase filter elements separately and carry out replacement by themselves
- Applicable to positive pressure and vacuum systems of low or medium contamination level

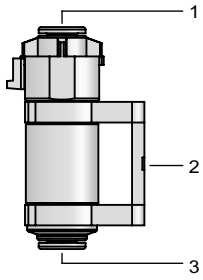
Application of ZFC vacuum filter



Application

- Applicable to operating stations with limited installation space, e.g. electronic and solar energy equipment, etc.

Structure of ZFC vacuum filter



Structure

- (1) Suction cup connecting port
- (2) Mounting bracket
- (3) Vacuum source port

Vacuum filter
ZFC vacuum filter

AMILA

ZFC vacuum filter purchase guide

ZFC 5 4 B

① ② ③ ④

① Product series	② Filtration specification	③ Hose diameter	④ Mounting bracket
ZFC	5 - Filtration area: 750mm^2 7 - Filtration area: 1260mm^2 Note: When "5" is selected, ③hose diameter 8, 10 and 12 will be disabled. When "7" is selected, ③hose diameter 4 will be disabled.	3 - ϕ4 hose 4 - ϕ6 hose 5 - ϕ8 hose 6 - ϕ10 hose 7 - ϕ12 hose	Null - No mounting bracket B - Mounting bracket–equipped

Model specifications of ZFC vacuum filter

Model	Hose diameter				
	3 - ϕ4 hose	4 - ϕ6 hose	5 - ϕ8 hose	6 - ϕ10 hose	7 - ϕ12 hose
ZFC 5...	●	●	-	-	-
ZFC 7...	-	●	●	●	●

Technical parameters of ZFC vacuum filter

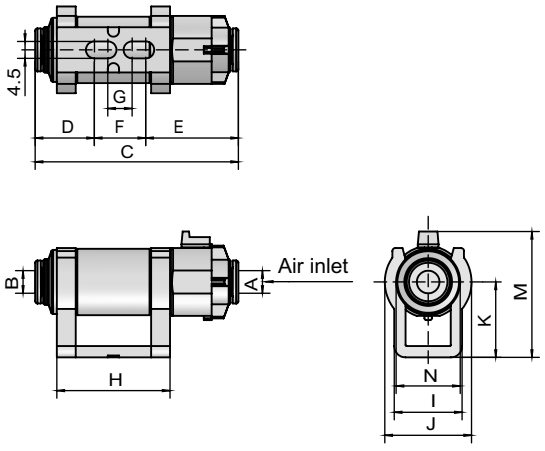
Model	Connecting port diameter mm	Pressure range kPa	Operating temperature °C	Test withstanding pressure MPa	Flow rate (positive pressure) l/min	Flow rate (negative pressure) l/min	Filtration precision μm	Net weight (including the bracket) g
ZFC53-□	ø4	-100~1000	0 ~ 60	1.5	45	10	5	10.5
ZFC54-□	ø6	-100~1000	0 ~ 60	1.5	100	20	5	10.5
ZFC74-□	ø6	-100~1000	0 ~ 60	1.5	120	30	5	20
ZFC75-□	ø8	-100~1000	0 ~ 60	1.5	250	70	5	20
ZFC76-□	ø10	-100~1000	0 ~ 60	1.5	300	80	5	25
ZFC77-□	ø12	-100~1000	0 ~ 60	1.5	350	100	5	25

Vacuum filter
ZFC vacuum filter

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Design parameters of ZFC vacuum filter

ZFC...



Model	A	B	C	D	E	F	G	H	I	J	K	M	N
ZFC53-□	4	4	53.9	15.7	24.7	13.5	6.4	30	18	23	20	33.4	19
ZFC54-□	6	6	53.9	15.7	24.7	13.5	6.4	30	18	23	20	33.4	19
ZFC74-□	6	6	68.4	20.7	28.5	19.2	8.7	34	20	27.3	24	39.8	23.6
ZFC75-□	8	8	68.4	20.7	28.5	19.2	8.7	34	20	27.3	24	39.8	23.6
ZFC76-□	10	10	79.7	26.7	33.8	19.2	8.7	34	20	27.3	24	39.8	23.6
ZFC77-□	12	12	79.7	26.7	33.8	19.2	8.7	34	20	27.3	24	39.8	23.6

Vacuum filter
VVF vacuum filter


General -purpose


3C product (Display film)

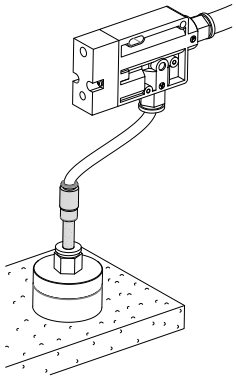

(PCBs) 3C product



Introduction

- Filters dust and other impurities suctioned through the vacuum port
- Transparent casing through which the contamination degree of the filter can be observed directly
- Can be directly connected to the vacuum port of the generator, e.g. VY product series
- It is tube-shaped and a hose can be directly inserted into it.
- Compact, small-sized, lightweight, economical and environment-friendly

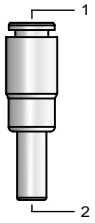
Application of VVF vacuum filter



Application

- Applicable to transition from a vacuum generator to piping

Structure of VVF vacuum filter



Structure

- (1) Vacuum source port
- (2) Suction cup connecting end

Vacuum filter
VVF vacuum filter

AMILA

VVF vacuum filter purchase guide

VVF 04
① ②

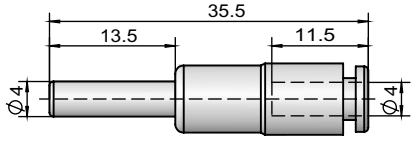
① Product series	② Connection specification
VVF	04 - ϕ4 hose 06 - ϕ6 hose

Technical parameters of VVF vacuum filter

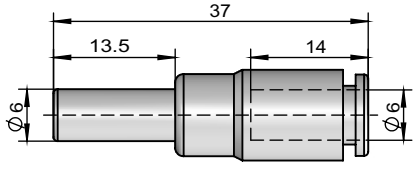
Model	Pressure range KPa	Nominal flow rate NL/min	Filtration precision μm	Operating temperature °C	weight g
VVF04	-100~0	27	10	0~60	1.5
VVF06	-100~0	49	10	0~60	2.5

Design parameters of VVF vacuum filter

VVF 04



VVF 06



Vacuum filter
MDF vacuum filter

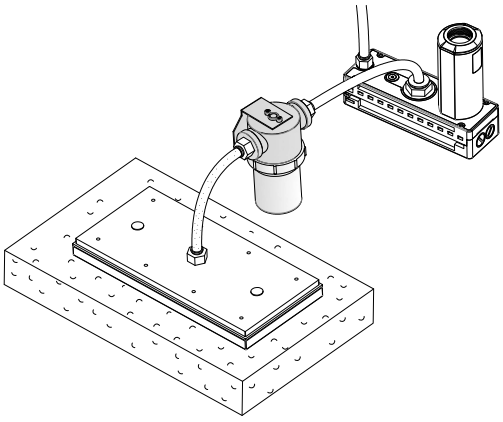
General -purpose



Introduction

- Filters dust and other impurities suctioned through the vacuum port
- Transparent casing through which the contamination degree of the filter can be observed directly
- Customers can purchase filter elements separately and carry out replacement by themselves
- Customers can select different nominal flow rates

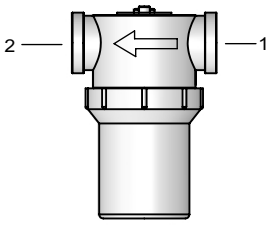
Application of MDF vacuum filter



Application

- Applicable to vacuum systems of low or medium contamination level
- Can be used for pre-filtration and can effectively filter dust of different degrees

Structure of MDF vacuum filter



Structure

- (1) Suction cup connecting port
- (2) Vacuum source port

Vacuum filter
MDF vacuum filter

AMILA

MDF vacuum filter purchase guide

MDF 10
① ②

① Product series	② Corresponding thread specification
MDF	10 - G3/8 female thread 15 - G1/2 female thread 20 - G3/4 female thread 25 - G1 female thread 40 - G1 1/2 female thread

Models of MDF vacuum filter spare fittings and elements

Name	Model Specification	Size	Applicable filter model
Filter element	MDF 10-FE	15 × 26 × L35	MDF 10
	MDF 20-FE	27.5 × 39 × L90	MDF 15、20
	MDF 25-FE	45 × 57 × L104	MDF 25
	MDF 40-FE	45 × 57 × L136	MDF 40

Technical parameters of MDF vacuum filter

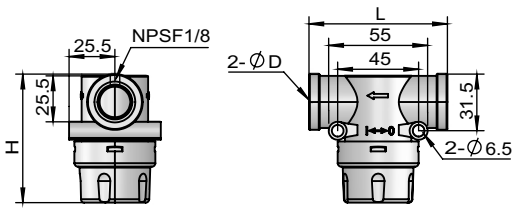
Model	Connecting port diameter mm	Operating pressure range KPa	Operating temperature °C	Test withstanding pressure MPa	Nominal flow rate l/min	Filtration area m^2	Filtration precision μm	Weight g
MDF10	G3/8	-100~0	-20~ 60	1.5	150	0.003	10	70
MDF15	G1/2	-100~0	-20~ 60	1.5	900	0.01	10	168
MDF20	G3/4	-100~0	-20~ 60	1.5	900	0.01	10	170
MDF25	G1	-100~0	-20~ 60	1.5	2520	0.019	10	424
MDF40	G1 1/2	-100~0	-20~ 60	1.5	5100	0.023	10	550

Vacuum filter
MDF vacuum filter

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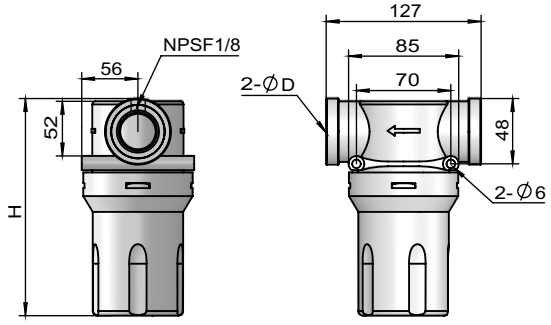
Design parameters of MDF vacuum filter

MDF10(15-20)B



Model	Size (mm)		
	H	L	D
MDF10	74.5	76.5	2-G3/8
MDF15	136.3	98.5	2-G1/2
MDF20	136.3	98.5	2-G3/4

MDF25(40)B



Model	Size (mm)	
	H	D
MDF25	169.5	2-G1
MDF40	212.5	2-G1 1/2

Design parameters of MDF filter element

Filter element

Name	Model	Size specification	Applicable filter model
Filter element	MDF10-FE	15×26×L35	MDF10
	MDF20-FE	27.5×39×L90	MDF15、20
	MDF25-FE	45×57×L104	MDF25
	MDF40-FE	45×57×L136	MDF40

Vacuum filter
MTF vacuum filter

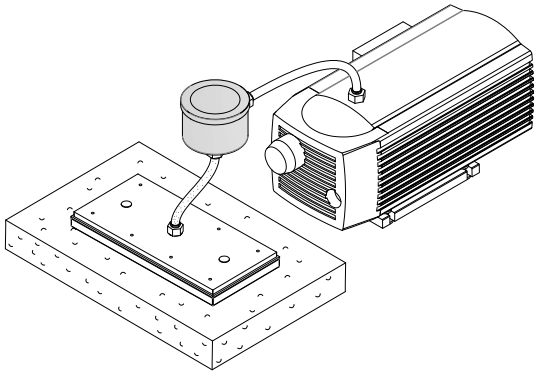
General -purpose



Introduction

- Can effectively prevent solid particles or dust from being suctioned into a vacuum pump or system, reduce pump abrasion, improve the operation reliability of the pump and prolong the service life of the pump, and can effectively protect the elements (such as vacuum valves, vacuum meter, etc.) of the vacuum system.
- Robust and durable fully steel structure applicable to industrial large load requirements, seamless metal casing, soldered joints, high airtightness, large dirt accommodation, which can be cleaned easily, easy replacement of filter element, convenient threaded inlet and outlet.
- Customers can select different nominal flow rates

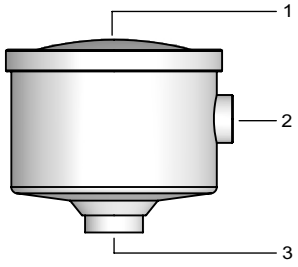
Application of MTF vacuum filter



Application

- Effectively filtering the entering air and protecting vacuum generating devices (such as vacuum pump and blower), the vacuum filter is used in dusty environments and can achieve 100% filtration.

Structure of MTF vacuum filter



Structure

- (1) Top cover
- (2) Vacuum source port
- (3) Suction cup connecting port

Vacuum filter
MTF vacuum filter

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MTF vacuum filter purchase guide

MTF 002
① ②

① Product series	② Nominal flow rate
MTF	002 - 32 m³/h 002-1 - 42 m³/h 004 - 100 m³/h 003 - 120 m³/h 006 - 300 m³/h

Models of MTF vacuum filter spare fittings and elements

Name	Model Specification	Applicable filter model
Filter element	FE002	MTF 002、MTF 002-1
	FE004	MTF 004
	FE003	MTF 003
	FE006	MTF 006

Technical parameters of MTF vacuum filter

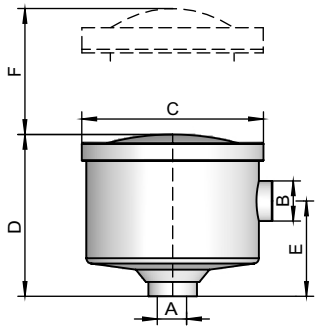
Model	Pressure range kPa	Nominal flow rate m³/h	Internal volume cm³	Filtration area cm²	Filtration precision μm	Operating temperature °C	Weight kg
MTF002	-100~0	32	45	30	10	-15~90	1
MTF002-1	-100~0	42	195	100	10	-15~90	1
MTF004	-100~0	100	205	100	10	-15~90	1.4
MTF003	-100~0	120	495	190	10	-15~90	2.3
MTF006	-100~0	300	675	230	10	-15~90	6.9

Vacuum filter
MTF vacuum filter

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Design parameters of MTF vacuum filter

MTF□

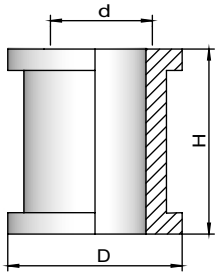


Model	Size (mm)					
	A	B	C	D	E	F
MTF002	G1/2	G1/2	101	90	53	70
MTF002-1	G3/4	G3/4	101	90	53	70
MTF004	G1 1/4	G1 1/4	146	110	70	75
MTF003	G1 1/4	G1 1/4	185	170	115	130
MTF006	G2	G2	222	258	125	240

Note: Sizes A an B mean G tube thread. NP is USA standard and BSP UK standard.

Design parameters of MTF filter element

MTF filter element



Model	Size (mm)		
	Outer diameter DΦ	Inner diameter d Φ	Height H
MTF002	65	38	69
MTF002-1	65	38	69
MTF004	98	60	70
MTF003	128	64	125
MTF006	150	88	222

Vacuum switch

MP20 high-precision pressure switch with digital display

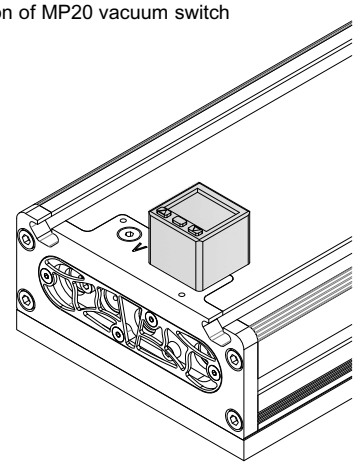
General -purpose



Introduction

- Pressure switch with digital display
- 4-digit 7-segment LED display with letters displayed
- Reference values can be directly displayed on the letters
- Pressure unit can be converted and displayed on the letters
- Actions of the system can be monitored clearly. The settings can be changed freely and the backlighted display mode can be switched freely.
- Set pressure is displayed on the letter so that the user can easily know the setting.
- Symbols of units are clearly displayed to facilitate operations.

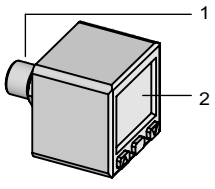
Application of MP20 vacuum switch



Application

- Used to monitor the state of vacuum system and optimize working cycle
- Adjusts the system loop and improves the economical benefit of vacuum system
- Cubic design more appropriate to being mounted to a panel
- Applicable to all automatic handling

Structure of MP20 vacuum switch



Structure

- (1) Connecting thread
- (2) Display

Vacuum switch

MP20 high-precision pressure switch with digital display

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MP20 vacuum switch purchase guide

MP20 - C NPN - BT-14

① ② ③ ④

① Product series	② Pressure type	③ Output type	④ Installation fittings
MP20	C- Compound pressure (pressure range: -100.0–100.0kPa) P - Positive pressure (pressure range: -0.100–1.000MPa)	NPN - 1NPN output PNP - 1PNP output	Null - No mounting fittings BT-14 -Holder BT-15 -Holder PA-C -Panel adapter assembly PA-D -Panel adapter assembly + front cover

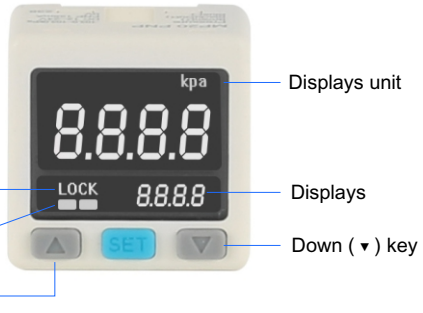
Model specifications of MP20 vacuum switch

Model	Installation fittings			
	BT-14	**BT-15**	**PA-C**	**PA-D**
MP20-C...	●	●	●	●
MP20-P...	●	●	●	●

Model specifications of MP20 vacuum switch fittings

Name	Model
Holder	BT-14
Holder	BT-15
Panel adapter assembly	PA-C
Front cover + panel adapter assembly	PA-D

Description of MP20 vacuum switch display panel



Vacuum switch

MP20 high-precision pressure switch with digital display

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Technical parameters of MP20 vacuum switch

Model		MP20-C (compound pressure)	MP20-P (positive pressure)
Rated pressure range		-100.0~100.0kPa	-0.100~1.000MPa
Set pressure range		-103.0~103.0kPa	-0.103~1.030MPa
Withstanding pressure		500kPa	1.5MPa
General gases		Air, non-corrosive, inflammable	Air, non-corrosive, inflammable
Unit of pressure	kPa	0.1	1
Minimum reading	MPa	-	-
	kgf/cm²	0.001	0.01
	bar	0.001	0.01
	psi	0.01	0.1
	inHg	0.1	-
	mmHg	1	-
Power supply voltage		12 to 24V DC±10%; ripple peak: less than 10%	
Current consumption		≤ 40mA (no-load)	
Switch output	Output type	Open collector output (NPN/PNP)	
	Load current	Max.125mA	
	Internal pressure drop	⩽1.0V	
	Response time	≤2.5ms (mis-action prevention function: 25ms, 100ms, 250ms, 500ms, 1000ms and1500ms available)	
Display	Display	Display in white (sampling rate: 0.2 times/s, 0.5 times/s and 1 times/s available)	
	Display precision	±1%F.S.±1 digit (at ambient temperature: 25±3°C)	
	Repetition precision	±0.3%F.S.±1 digit	
	Action indicator	White (indicator 1) OUT1	
Withstanding conditions	Protection level	IP40	
	Ambient temperature	0~50℃	
	Specific temperatures	±2%F.S. rated ambient temperature: 25OC (temperature range: 0–50C)	
	Storage temperature	Storage: -10-60C (under the conditions of no condensation and freezing)	
	Ambient humidity	Action and storage: 35-85%HR (no condensation)	
	Withstanding voltage	1000VAC for 1 min (between the lead and the plastic casing)	
	Insulation impedance	More than 50MQ (500VDC) (between the lead and the plastic casing)	
	Withstanding vibration	Complex amplitude: 1.5mm or 10G; 10Hz–150Hz–10Hz /min; 2 hours in X, Y and Z direction respectively	
	Withstanding impact	100m/s²(10G); 3 times in X, Y and Z direction respectively	
Connected pipe diameter		Rc1/8,M5	
Cable specification		φ4 oil-resistant PVC (0.15mm²) – 3-core	
Weight		67g (including a cable of 2m long)	

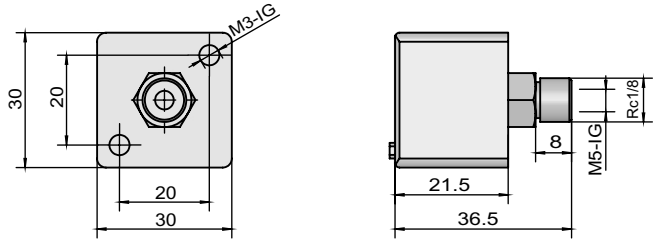
Vacuum switch

MP20 high-precision pressure switch with digital display

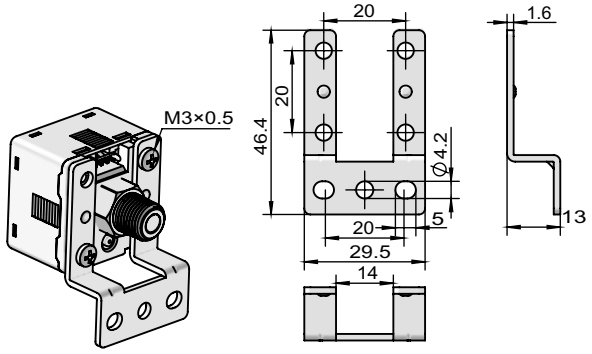
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Design parameters of MP20 vacuum switch

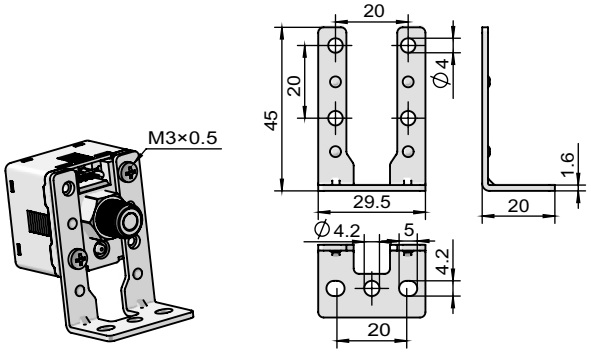
MP20...



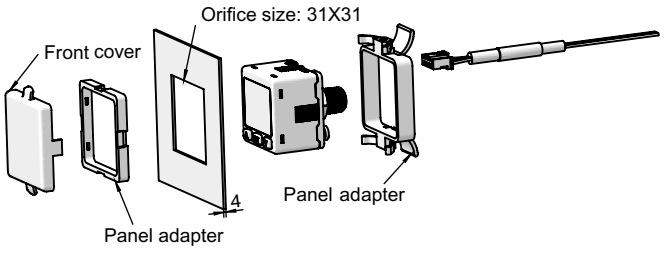
BT-14 holder



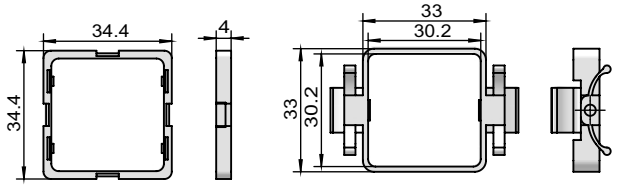
BT-15 holder



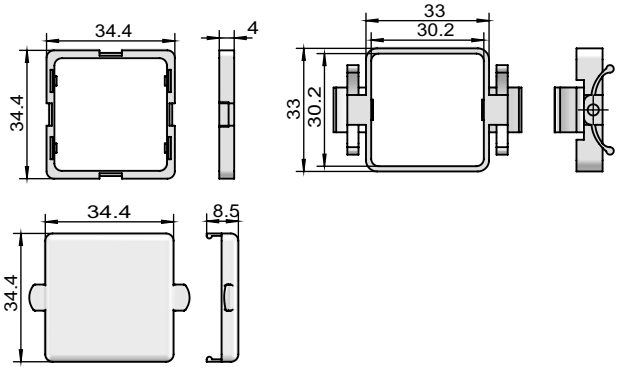
Display panel type



PA-C panel adapter assembly



PA-D panel adapter assembly + front cover



Model specifications of MP20 vacuum switch fittings

Name	Model
Holder	BT-14
Holder	BT-15
Panel adapter assembly	PA-C
Front cover + panel adapter assembly	PA-D

Manometer
ZPMR Manometer

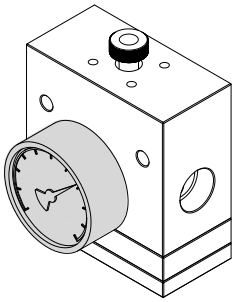
General
-purpose



Introduction

- Manometer with a panel made of acrylic organic glass and a casing made of ABS black plastic
- Axial installation, universal specifications, easy use

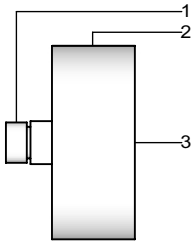
Application of ZPMR manometer



Application

- Applications in vacuum and without power supply on-site

Structure of ZPMR manometer



Structure

- (1) Thread
- (2) Main body
- (3) Meter surface

Manometer
ZPMR Manometer

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ZPMR manometer purchase guide

ZPMR - V - G1/8-AG

① ② ③

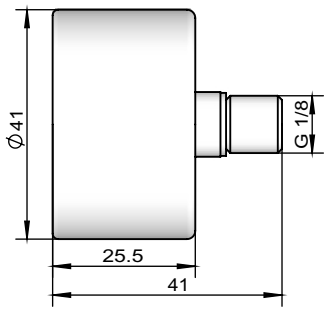
① Product series	② Pressure type	③ Connecting thread
ZPMR	V – Negative pressure type (G1/8 male thread)	G1/8-AG - G1/8 male thread

Technical parameters of ZPMR manometer

Model	Pressure range kPa	Meter face size inch	Joint material	Connecting thread	Weight g
ZPMR-V-G1/8-AG	-100~0	1.5	Copper alloy	G1/8	57

Design parameters of ZPMR manometer

ZPMR-V-G1/8-AG

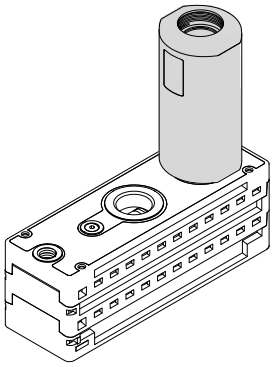


Silencer
ZSA Silencer

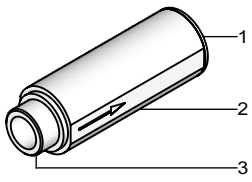
General -purpose



Application of ZSA silencer



Structure of ZSA silencer



Introduction

- Applicable to various standard vacuum generators, the silencer can significantly reduce noise produced during evacuation and can be purchased separately.

Application

- Applicable to silencing the vacuum evacuation

Structure

- (1) Top cover
- (2) Main body
- (3) Thread

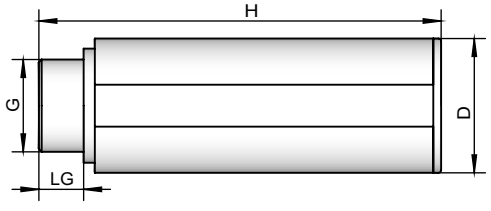
ZSA silencer purchase guide

ZSA G1/8-AG
① ②

① Product series	② Connecting thread
ZSA	G1/8-AG - G1/8 male thread G1/4-AG - G1/4 male thread G3/8-AG - G3/8 male thread G1-AG - G1 male thread

Design parameters of ZSA silencer

ZSA□



Model	Size (mm)			
	H	D	LG	G
ZSA G1/8-AG	41.6	15.7	7	G1/8
ZSA G1/4-AG	53	19.5	9	G1/4
ZSA G3/8-AG	71.9	24	8	G3/8
ZSA G1-AG	126.9	54	10.3	G1

Vacuum hose

VSL vacuum/compressed air hoses

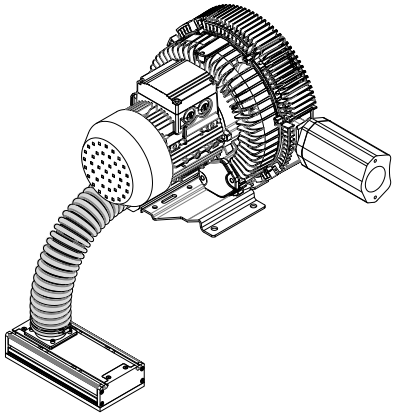
General
-purpose



Introduction

- With a highly elastic spiral steel wire integrated into the tube wall, the product has high axial strength.
  With smooth interior and exterior of its wall, the product can with stand high pressure and vacuum compression.

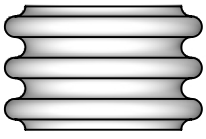
Application of VSL connecting hose



Application

- Usually used as suction and conveying hose, e.g. solid powder, debris or granules, etc., as well as gas or liquid media, etc.

Structure of VSL connecting hose



Structure

- The vacuum hose is made of PU and has wires integrated inside

Vacuum hose

VSL vacuum/compressed air hoses

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VSL connecting hose purchase guide

VSL - D32

① ②

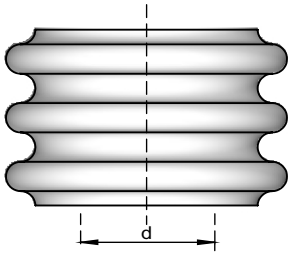
①Product series	②Specification	
VSL	D20 - ϕ20mm	D65 - ϕ65mm
	D25 - ϕ25mm	D70 - ϕ70mm
	D32 - ϕ32mm	D75 - ϕ75mm
	D40 - ϕ40mm	D80 - ϕ80mm
	D50 - ϕ50mm	D90 - ϕ90mm
	D60 - ϕ60mm	D102- ϕ102mm

Technical parameters of VSL connecting hose

Model	Operating pressure range bar	Inner diameter mm	Wall thickness mm	Bending radius (center line of hose) mm	Net weight kg/m
VSL-D20	0.2~7.0	20	1.4	35	0.28
VSL-D25	0.2~7.0	25	1.4	38	0.30
VSL-D32	0.2~7.0	32	1.4	48	0.38
VSL-D40	0.2~7.0	40	1.4	60	0.56
VSL-D50	0.2~7.0	50	1.4	75	0.67
VSL-D60	0.2~7.0	60	1.4	90	0.79
VSL-D65	0.2~7.0	65	1.4	100	0.85
VSL-D70	0.2~7.0	70	1.4	105	0.92
VSL-D75	0.2~7.0	75	1.4	115	0.98
VSL-D80	0.2~7.0	80	1.4	120	1.09
VSL-D90	0.2~7.0	90	1.4	135	1.23
VSL-D102	0.2~7.0	102	1.4	150	1.36

Design parameters of VSL connecting hose

VSL...



Model	d mm
VSL-D20	20
VSL-D25	25
VSL-D32	32
VSL-D40	40
VSL-D50	50
VSL-D60	60
VSL-D65	65
VSL-D70	70
VSL-D75	75
VSL-D80	80
VSL-D90	90
VSL-D102	102

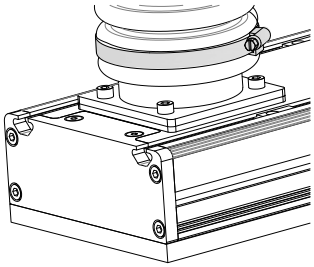
Stainless steel hose clamp

SSD stainless steel hose clamp

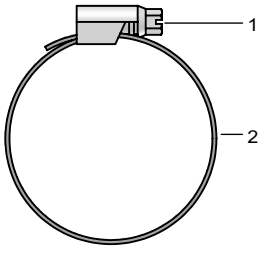
General
-purpose



Application of SSD stainless steel hose clamp



Structure of SSD stainless steel hose clamp



Introduction

- Using quality stainless steel and perforation process; firm and tight locking, large adjustment range, twist-proof and well-wearing

Application

- Applicable to connecting and fastening various hoses and rigid pipes; aesthetically pleasing and durable

Structure

- (1) Locking screw
- (2) Hose clamp

Stainless steel hose clamp
SSD stainless steel hose clamp

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SSD stainless steel hose clamp purchase guide

SSD - 30-50

① ②

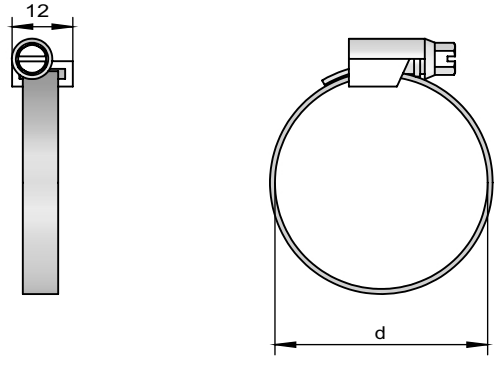
① Product series	② Specification
SSD	30-50 50-70 70-90 80-100 90-110

Technical parameters of SSD stainless steel hose clamp

Model	Band width mm	Band thickness mm	Applicable outer diameter of hose mm
SSD-30-50	12	0.68	30-50
SSD-50-70	12	0.68	50-70
SSD-70-90	12	0.68	70-90
SSD-80-100	12	0.68	80-100
SSD-90-110	12	0.68	90-110

Design and technical parameters of SSD stainless steel hose clamp

SSD...



Model	d mm
SSD-30-50	30-50
SSD-50-70	50-70
SSD-70-90	70-90
SSD-80-100	80-100
SSD-90-110	90-110

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