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Focused vacuum technology

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完整的 真空配套解决方案

Complete vacuum solution

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销售代理商 Sales agent

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CN
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为您提供最佳 自动化设备配套解决方案

To provide you with the best
automation equipment supporting solutions

Booka真空元件全部采用符合欧盟标准的进口材料，以及高品质的制造工艺生产出标准耐用的真空元件。

主要提供机器人末端抓取系统，柏卡是将创新技术和解决方案应用于产品，并销售至各地的国内领先真空品牌。从汽车制造、3C电子到新能源、物流等行业都充斥着柏卡的身影，依靠先进的技术、优质的产品和完善的服务，柏卡已成为国内知名的真空方案解决商之一。

柏卡专注研发、不断创新，以市场为导向，以技术为根本、以服务为战略，始终坚持主推高品质产品和服务，贯彻品质铸就品牌，技术占领市场的理念，为用户提供最优的真空解决方案。

Booka vacuum components are made from imported materials that meet EU standards and high quality manufacturing processes to produce standard and durable vacuum components.

Mainly providing robotic end gripping system, Booka is a leading domestic vacuum brand that applies innovative technologies and solutions to products and sells them all over the world. From automobile manufacturing, 3C electronics to new energy, logistics and other industries are full of cypress, relying on advanced technology, quality products and perfect services, Booka has become one of the well-known vacuum solution providers in China.

Booka focuses on R&D, continuous innovation, market-oriented, technology-based, service-oriented strategy, always insists on promoting high-quality products and services, implements the concept of quality-building brand and technology to occupy the market, and provides users with optimal vacuum solution. Program.

关于柏卡

About
BOOKA



Booka真空元件，前期致力于气动元件的代理及销售，后主力推真空技术生产、研发及销售，主要生产真空吸盘、真空发生器、集成式海绵吸具等真空部件。

随着国内真空技术发展，自动化搬运普及，BOOKA公司致力于提供高质量产品、最佳的自动化设备配套解决方案及高水平的现场服务为一体，与多家大型制造商成为合作伙伴。

展望未来，我们将以生产管理制度的精进追求，充分满足客户的最高需求，持续品质提升的自我要求，做为我们企业永续经营的指导原则，希望能使客户、协力厂商及公司全体员工创造更大的福祉及贡献回馈社会。对于使用客户我们将本着积极主动的精神，提供客户最佳的售后服务，并以产品多样化、制程合理化，提供客户价格适中、品质精美的产品，提升客户在市场上的竞争力，与客户一起打拼，共同成长。

柏卡一直著力于自动化的拓展、制造能力的提升、生产营运规模的扩大，但是，我们不会以此成就为满足而停止前进的步伐，在自动化工业广泛的领域上，我们将继续开发更多多样化的产品、更多功能的应用设计，提供国内外客户更好的品质与服务。

Booka vacuum components, in the early stage dedicated to the agent and sales of pneumatic components, the main force of vacuum technology production, research and development and sales, mainly produces vacuum suction cups, vacuum generators, integrated sponge suction and other vacuum components.

With the development of domestic vacuum technology and the popularization of automatic handling, BOOKA is committed to providing high-quality products, the best automation equipment supporting solutions and high-level on-site services, and has become a partner with many large manufacturers.

Looking forward to the future, we will continue to meet the highest demands of our customers and continue to meet the highest demands of our customers. We will serve as the guiding principle for our company's sustainable operation and hope to create customers, partners and employees. Greater well-being and contribution to the community. For the use of customers, we will provide customers with the best after-sales service in a spirit of initiative, and diversify products and process rationalization, provide customers with moderate price and exquisite quality products, and enhance customers' competitiveness in the market. Customers start to work hard and grow together.

Berkshire is directly focused on the expansion of automation, the improvement of manufacturing capabilities, and the expansion of production operations. However, we will not stop this progress as a result of satisfaction. In the broad field of automation industry, we will continue to develop more. The diversified products and more functional application design provide better quality and service for domestic and foreign customers.



企业荣誉

Enterprise honor

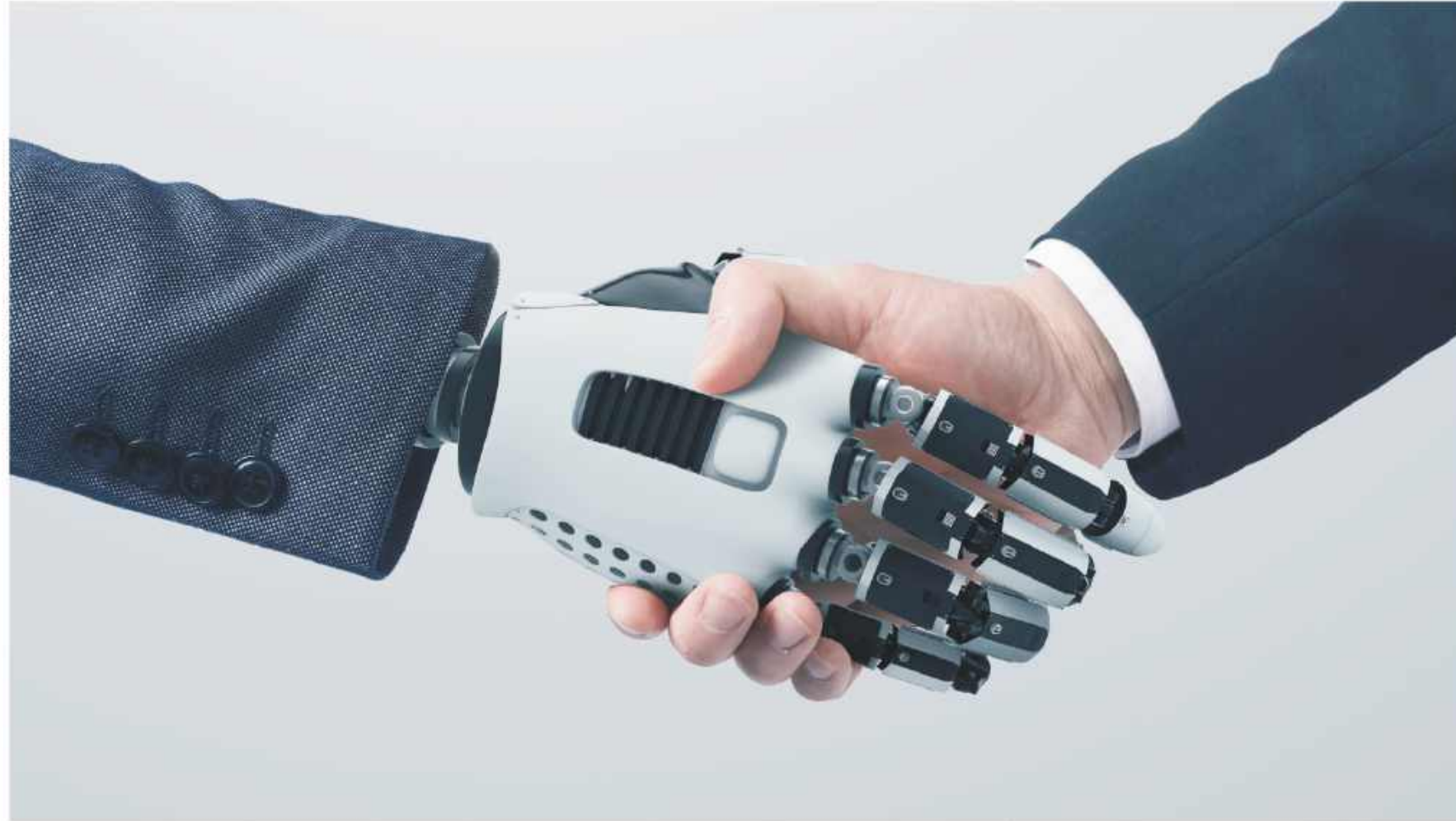
资质和荣誉见证了公司的成长历程，也见证了自动化行业发展的一个趋势和过程。但在企业的历史使命中，未来的岁月中，我们将继续高举科技创新的大旗，不断为社会和客户创造价值，争取更多更高的荣誉。

Qualification and honor witness company growth process and Also witnessed a trend and process in the development of the automation industry. But in the enterprise's historical mission, coming years, we will continue holding the banner of science and technology innovation, constantly creating value for society and customers, strive for higher honor.



企业理念

Corporate philosophy



柏，读 bo 时意通伯，康熙字典曾记载：(伯)长也，有大、长首位的含义；
字通柏 bai,常绿乔木，材质地坚硬。《荀子·大略》曾写到：岁不寒无以知松柏，事不难无
以知君子；

卡，有工具和要塞的含义；

“柏卡”不仅诠释了我公司诚信经营的企业文化和产品质量过硬的生产标准，也蕴含著我公司
如百木之长丛林首，傲骨峥嵘，庄重肃穆，四季长青，历严冬而不衰。更饱含对我公司的股
股期许，希望柏卡有松柏之寿，成为真空行业的百年品牌。

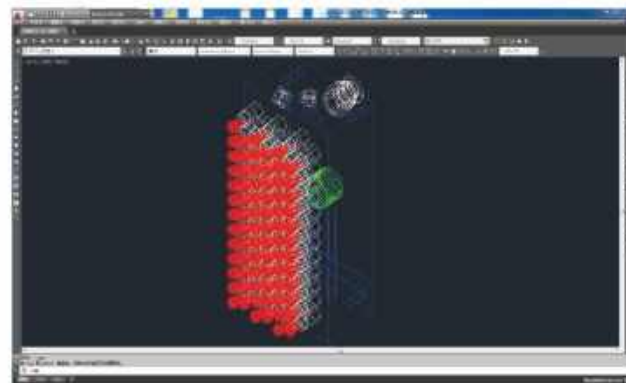
Bai, read bo when Yi Tongbo, Kangxi dictionary has recorded: (Bao) Chang also, the
meaning of the big, long first; The word baibai bai, evergreen trees, hard material.
"Xunzi-Luolu" once wrote: "It's not too cold to know the pines and cypresses, it's not
difficult to know the gentleman;

Card, with the meaning of tools and fortresses;

"BOOKA" not only interprets the company's corporate culture of honesty and integrity,
but also the production standards of excellent product quality. It also contains the
longest jungle of our company, such as Baimu. It is proud and solemn, solemn and
solemn, and has a long history. decline. More full of the company's enthusiasm, I hope
that Baika has the life of pine and cypress, becoming a century-old brand in the
vacuum industry.

企业经营理念 Business philosophy

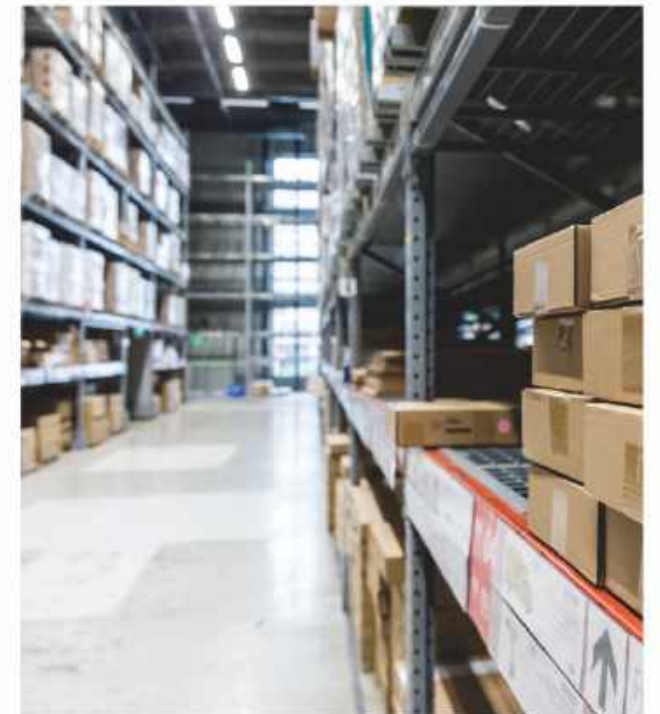
以市场为导向，以技术为根本，以服务为灵魂
Market-oriented, technology-based,
service-oriented



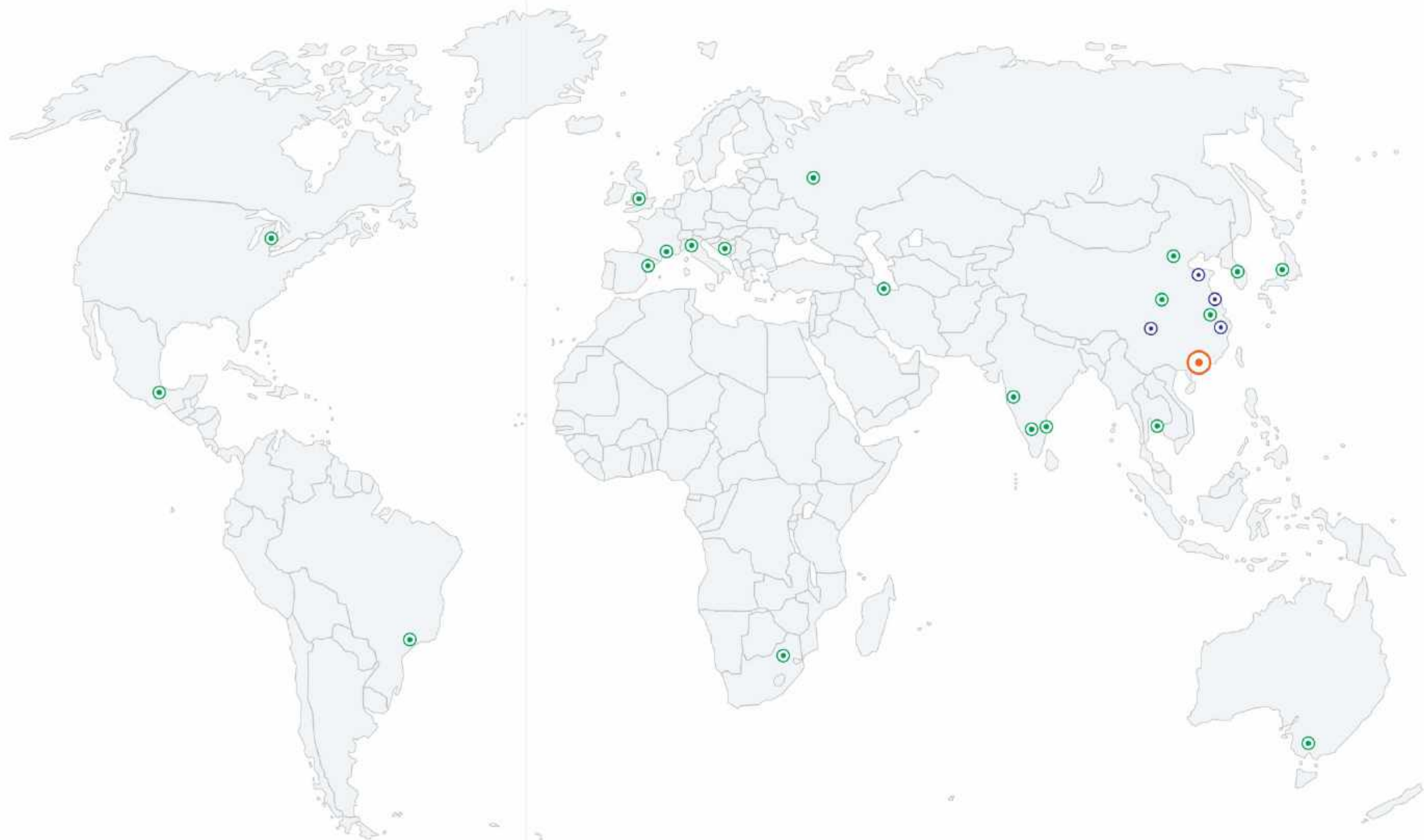
仓储保证 Warehousing guarantee

仓库所有储存产品都做有明确的数据记录，保证
出货的准确和高效性。完备的产品储存量保证了
正常产品的供货需求。

All storage products in the warehouse are
clearly recorded to ensure accurate and
efficient shipment. Complete product storage
guarantees the supply of normal products.



- 生产基地
Production base
- 地区服务点
Regional Service Point
- 未来合作服务点
Service points for future cooperation



全球化服务 未来发展

Global service
future development

无论您的位置如何，我们建立了国内国际销售网络体系，专业的国内外销售团队，打开了国内外市场，并在欧洲、美洲和亚洲拥有众多合作伙伴著力拓展业务。为客户提供全球的服务与支持。

Regardless of your location, we have established a domestic and international sales network system, professional sales teams at home and abroad has opened the domestic and foreign markets, and have many partners in Europe, the Americas and Asia to expand their business and provide customers with global services and support.

4000+

多种产品
Products category

20,000+

日产量
Daily production capacity

30th

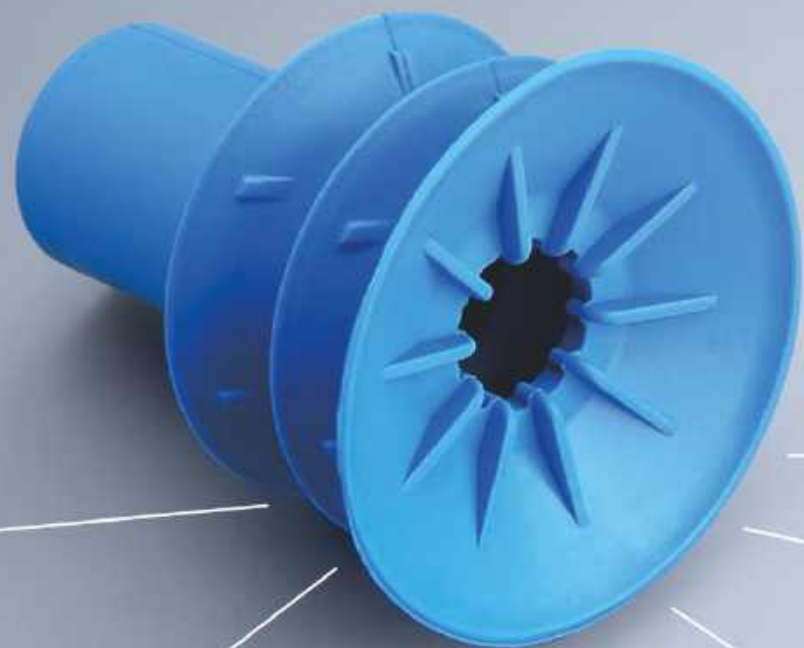
行业经验
Industry experience

300+

全球多家企业的选择
Companies' choice

产品在各行业中的应用

Application of products in various industries



注塑行业
Injection molding industry



汽车行业
Automobile industry



电子行业
Electronics industry



电气行业
Electrical industry



食品行业
Food industry



物流行业
Logistics industry



冶金行业
Metallurgical industry

产品导航 Product navigation

<p>真空技术 Vacuum technology</p> <p>P.001 P.016</p>	<p>Description P.001</p> 	
<p>吸盘配件 Suction cup fittings</p> <p>P.018 P.122</p>	<p>B-ZP2-MU P.019</p> 	<p>B-ZP2-MU P.020</p> 
<p>B-ZP2-AN P.022</p>	<p>B-ZP2-MT P.023</p>	<p>B-ZP2-MB P.025</p>
		
<p>B-ZP2-EU P.027</p>	<p>B-ZP2-UT P.029</p>	<p>B-ZP2-ZJ P.031</p>
		
<p>B-ZP3-U/UM/B P.033</p>	<p>B-ZP3E-UM P.047</p>	<p>B-ZP3E-BM P.054</p>
		
<p>B-ZP P.061</p>	<p>B-ZPT P.063</p>	<p>B-ZPR P.067</p>
		


<p>B-PK P.069</p>	<p>B-VP-P P.073</p>	<p>B-VP-R P.075</p>
		
<p>B-VP-A P.081</p>	<p>B-VP-B P.083</p>	<p>B-VP-E P.087</p>
		
<p>B-VP-L P.091</p>	<p>B-VP-LB P.093</p>	<p>B-VP-S P.095</p>
		
<p>SR P.097</p>	<p>PF P.100</p>	<p>PA P.106</p>
		
<p>PJ P.112</p>	<p>BPT P.119</p>	<p>BPF P.121</p>
		

产品导航 Product navigation

真空吸盘系列 Vacuum suction cup series P.124 P.218	FUF P.124	VF P.130
		
VB P.140	FCF series P.150	BK series P.156
		
BGA series P.164	VBF series P.172	BSG series P.180
		
VBU series P.188	BGR series P.194	BG series P.198
		
VBL series P.202	PU series P.208	UF series P.212
		
UH series P.216		
		

真空发生器系列 Vacuum generator series P.220 P.268	VTMZ series P.221	VK series P.225
		
VTN series P.233	VTM series P.235	VTX series P.237
		
BCV series P.239	VG series P.241	VTML series P.243
		
VTA series P.245	VY series P.247	VZH series P.249
		
VAC series P.253	VBH series P.255	VCV series P.257
		
VM series P.261	VUH series P.263	VZU series P.265
		

产品导航 Product navigation

VCH series P.267		
真空抓取系統 Vacuum grab system P.270 P.273	BCG(X) series P.270	
集成式真空吸具系統 Integrated vacuum suction device series P.274 P.304	BMX series P.277	BMSG series P.287
		
BMOX series P.293	BMB/BMSG series P.295	BMF series P.299
		
BF series P.301	BMK series P.303	
		

真空配件 Vacuum fitting P.306 P.350	SF series P.307	LT/LR series P.309
		
ZP3-T/ZP3-Y series P.313	ZP3E series P.319	SRK/SRKN series P.323
		
VP series P.325	VPA/VPT series P.331	BVC/BVCK series P.335
		
VPCK series P.336	VPG series P.337	ZFC series P.339
		
VFR series P.341	FH series P.342	PC series P.343
		
KP series P.345	KTDL series P.349	BK-SF series P.350
		

型号选定方法 Model selection method

1 真空吸著方式的特长 Advantages of vacuum suction

作为工件夹持方法的真空吸著，有以下特点：

As a vacuum suction of the workpiece clamping method, it has the following characteristics:

- 构造简单 • Simple construction
- 只要有可能吸著的面，即可对应 • As long as it is possible to suck the surface, you can
- 不需要定位 • No need to locate
- 可对应柔软易变形的工件 • Corresponding to soft and deformable workpieces

但，必须要注意以下几点 But must pay attention to the following points:

- 将工件吸著搬运，根据其条件的不同有落下的可能。 • The workpiece is sucked and transported, and there is a possibility of falling depending on the conditions.
- 会将工件周围的液体以及异物吸入。 • Inhalation of liquid and foreign matter around the workpiece.
- 为了得到更大的夹持力，有必要利用更大的吸著面积。 • In order to get a bigger central force, it is necessary to use a larger sorption area.
- 有必要注意真空吸盘(橡胶)的劣化。 • It is necessary to pay attention to the deterioration of the vacuum chuck (rubber).

上述特点充分理解后，根据使用条件使用。上述特点充分理解后，根据使用条件使用。

After fully understanding the above characteristics, use them according to the conditions of use.

2 真空吸盘的选定方法 Vacuum suction cup selection method

● 真空吸盘的选定顺序 Selected order of vacuum chucks

- 1) 充分考虑工件的平衡，明确吸著部位以及吸盘的个数以及吸盘直径（或吸盘的面积）。
- 2) 由已知的吸著面积（吸盘的面积×个数）和真空压力，求得理论吸吊力。吸盘的实际吊力应考虑吸吊方法以及移动条件和安全率。
- 3) 工件的质量与吸吊力进行比较，为了要使用吸吊力 > 工件质量，计算出必要且充分的吸盘直径（吸盘面积）。
- 4) 由使用环境以及工件的形状，材质，确认吸盘的形状、材质以及要不要缓冲器。

上述顺序表示的是一般的真空吸盘选定顺序，并非全部适用。最终结果根据客户的要求进行试验，并基于此结果，根据吸著条件决定使用吸盘。

- 1) Fully consider the balance of the workpiece, and specify the number of suction points and the number of suction cups and the diameter of the suction cup (or the area of the suction cup).
- 2) The theoretical suction force is obtained from the known sorption area (area of the suction cup x number) and the vacuum pressure. The actual lifting force of the suction cup should take into account the suction method as well as the moving conditions and safety rate.
- 3) The mass of the workpiece is compared with the suction force. In order to use the suction force > the workpiece quality, the necessary and sufficient suction cup diameter (suction cup area) is calculated.
- 4) Check the shape, material, and buffer of the suction cup from the use environment and the shape and material of the workpiece.

The above sequence shows the general vacuum chuck selection sequence, not all of which apply. The final result is tested according to the customer's requirements and based on this result. The suction cup is determined according to the sorption conditions.

● 真空吸盘选定时的要点 Key points when vacuum chucks are selected

A. 理论吸吊力 Theoretical suction

- 理论吸吊力由真空压力以及真空吸盘的吸著面积决定。
- 理论吸吊力是在静的条件下得出的数值，贵际使用的场合，还应根据使用状态，给予足够的余量以确保安全。
- 真空压力并不是越高越好，真空压力高时会发生意外情况。
- The theoretical suction force is determined by the vacuum pressure and the suction area of the vacuum chuck.
- The theoretical suction force is a value obtained under static conditions. In the occasion of use, it should be given a sufficient amount according to the state of use to ensure safety.
- The vacuum pressure is not as high as possible, and an unexpected situation occurs when the vacuum pressure is high.
- 当真空压力在必要以上时，吸盘的磨损量增加，容易引龟裂，使吸盘寿命变短。
- 真空压力为2倍，理论吸吊力也为2倍，吸盘直径为2倍，理论吸吊力则为4倍。
- 真空压力（设定压力）设定过高，不但响应时间会变长，发生真空必要的能量也会增大。
- When the vacuum pressure is more than necessary, the wear amount of the suction cup is increased, and cracking is easily caused, so that the life of the suction cup is shortened.
- The vacuum pressure is 2 times, the theoretical suction force is also 2 times, the suction cup diameter is 2 times, and the theoretical suction force is 4 times.
- When the vacuum pressure (set pressure) is set too high, not only will the response time become longer, but the energy necessary to generate vacuum will also increase.

例) 理论吸吊力=压力×面积 Example) theoretical suction force = pressure × area

吸盘直径 Suction cup diameter	面积 Area (cm ²)	真空压力 Vacuum pressure [40-kPa]	真空压力 Vacuum pressure [80-kPa]
Ø20	3.14	理论吸吊力 Theoretical suction pressure 12.56N	理论吸吊力 Theoretical suction pressure 25.11N
Ø40	12.56	理论吸吊力 Theoretical suction pressure 50.23N	理论吸吊力 Theoretical suction pressure 100.45N

2倍

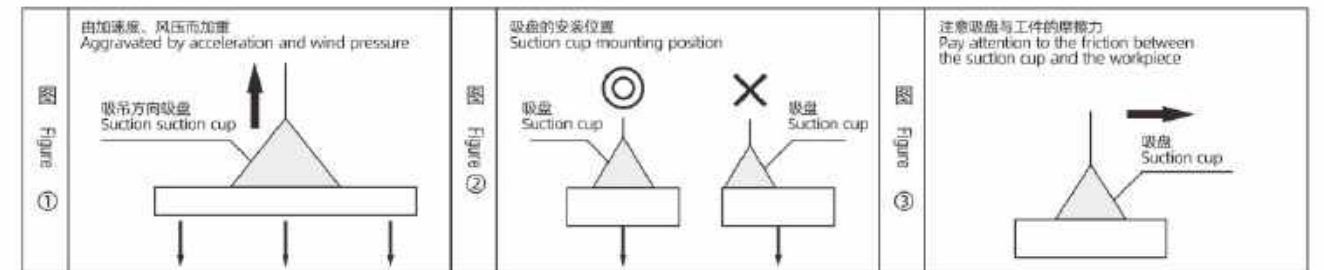
4倍

B. 关于真空吸盘的剪切力和力矩 About the shear force and torque of the vacuum chuck

- 真空吸盘的剪切力（吸著面和平行方向的力）与力矩都不强。
- 考虑工件的重心位置，使真空吸盘收到的力矩最小。
- 不但要使移动时的加速度尽可能小，还要充分考虑风压以及冲击力。如果在移动时的加速度缓和，则工件落下防止的安全性能就变高。
- 应尽量避免真空吸盘吸著工件垂直方向的面向上提升(垂直吊)，不得已的情况下请考虑安全率。
- The shearing force of the vacuum chuck (the force of the absorbing surface and the parallel direction) and the moment are not strong.
- Consider the position of the center of gravity of the workpiece to minimize the torque received by the vacuum chuck.
- Not only should the acceleration during movement be as small as possible, but also the wind pressure and impact force should be fully considered. If the acceleration at the time of movement is relaxed, the safety performance of the workpiece falling prevention becomes high.
- The vacuum suction cup should be avoided to raise the vertical direction of the workpiece in the vertical direction (vertical suspension). Please consider the safety rate if it is unavoidable.

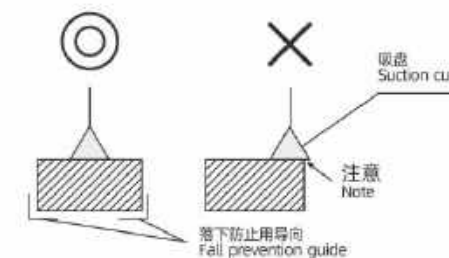
吸吊力、力矩、水平力 Suction force, torque, horizontal force

- 上方吸吊的场合，不光要考虑工件的质量，还应考虑加速度、风压、冲击等。（参照图①）
- 为了不使吸盘的力矩变弱，安装时请不要让工件产生力矩。（参照图②）
- 进行水平吸吊作业的场合，向横向移动时，会由加速度以及吸盘与工件间的摩擦系数的大小，使工件产生偏移。故请控制平移速度。（参照图③）
- In the case of suctioning above, not only the quality of the workpiece but also the acceleration, wind pressure, impact, etc. should be considered. (Refer to Figure ①)
- In order not to weaken the torque of the suction cup, do not let the workpiece generate torque during installation. (Refer to Figure ②)
- In the case of horizontal suction work, when moving in the lateral direction, the workpiece is offset by the acceleration and the coefficient of friction between the suction cup and the workpiece. So please control the translation speed. (Refer to Figure ③)



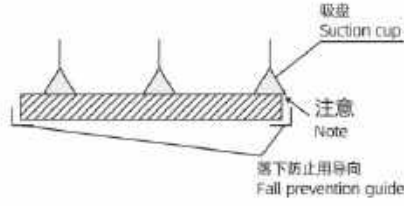
① 吸盘与工件的平衡 Balance between the suction cup and the workpiece

请不要使吸盘的吸著面积超过工件的表面。如果发生真空泄漏，则吸著不稳。
Do not allow the suction area of the suction cup to exceed the surface of the workpiece. If a vacuum leak occurs, the suction is unstable.



型号选定方法 Model selection method

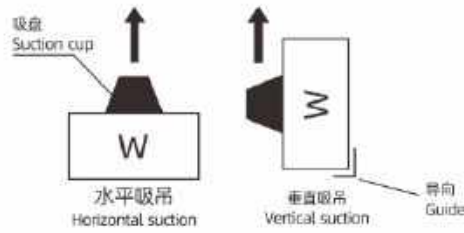
面积大的板材使用多个吸盘进行搬送の場合，要合理布置吸盘位置，增强吸吊平稳性，特别是周边部位，请确定好位置后进行配管。
Where large-area plates are transported using multiple suction cups, the position of the suction cups should be reasonably arranged to enhance the stability of the suction and suspension. Especially for the surrounding area, please confirm the position and carry out piping.



另外，如有必要，请配置防止工件落下的辅助工具(例:落下防止用导向)
In addition, if necessary, configure an auxiliary tool to prevent the workpiece from falling (example: drop prevention guide)

安装方式 Installation method

基本上水平安装。尽量避免倾斜以及垂直安装。不得已的情况下，使用导向以确保安全率。
Basically installed horizontally. Try to avoid tilting and vertical mounting. Use a guide to ensure a safe rate if it is a last resort.



● 求吸吊力和真空吸盘的直径 Suction suction and diameter of vacuum chuck

① 求理论吸吊力 Seeking theoretical suction

- 真空压力请设定在吸着稳定后的压力以下。
- 但工件有透气性的场合、工件表面粗糙容易吸入空气的场合。由于吸入大气，会使真空压力下降，必须考虑此点。此类场合，需根据进行的吸着测试来确定。
- 使用真空发生器的场合，真空压力大约为-60kPa左右。
- Set the vacuum pressure below the pressure after the suction is stabilized.
- However, when the workpiece has gas permeability, the surface of the workpiece is rough and it is easy to take in air. This must be considered as the vacuum pressure drops due to inhalation into the atmosphere. Such occasions need to be determined based on the sorption test performed.
- When a vacuum generator is used, the vacuum pressure is about -60 kPa.

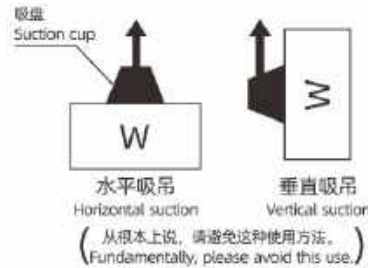
吸盘的吸吊力，根据计算式以及表①理论吸吊力表即可求出。
The suction force of the suction cup can be obtained according to the calculation formula and the theoretical suction force table of Table ①.

根据计算式 According to the calculation formula

$$W = P \times S \times 0.1 \times \frac{1}{t}$$

W: 吸吊力 Suction force (N)
P: 真空压力 Vacuum pressure (kPa)
S: 吸盘面积 Suction cup area (cm²)
T: 安全率 Security rate

水平吊起 Horizontal lifting: 4以上 the above
垂直吊起 Vertical lifting: 8以上 the above



根据理论吸吊力表 According to the theoretical suction force table

- 根据吸盘直径、真空压力、不含安全率可算出理论吸吊力。
- 理论吸吊力除以安全率t,可得出吸吊力。
- 吸吊力=理论吸吊力÷t
- The theoretical suction force can be calculated according to the diameter of the suction cup, the vacuum pressure, and the safety rate.
- The theoretical suction force is divided by the safety rate t, and the suction force can be obtained.
- Suction lifting force = theoretical suction force ÷ t

① 理论吸吊力表 Theoretical suction table (理论吸吊力 Theoretical suction=P×S×0.1)

吸盘尺寸 Suction cup size (φ2~φ50)

单位 unit: N

吸盘尺寸 Suction cup size	mm	φ2	φ4	φ6	φ8	φ10	φ13	φ16	φ20	φ25	φ32	φ40	φ50
S吸盘尺寸的面积 S suction cup size area	cm ²	0.03	0.13	0.28	0.50	0.79	1.33	2.01	3.14	4.91	8.04	12.6	19.6
真空压力 Vacuum pressure kPa	-85	0.27	1.07	2.40	4.27	6.67	11.3	17.1	26.7	41.7	68.3	107	167
	-80	0.25	1.00	2.26	4.02	6.28	10.6	16.1	25.1	39.3	64.3	101	157
	-75	0.24	0.94	2.12	3.77	5.89	10.0	15.1	23.6	36.8	60.3	95	147
	-70	0.22	0.88	1.98	3.52	5.50	9.3	14.1	22.0	34.3	56.3	88	137
	-65	0.20	0.82	1.84	3.27	5.10	8.6	13.1	20.4	31.9	52.2	82	127
	-60	0.19	0.75	1.70	3.01	4.71	8.0	12.1	18.8	29.4	48.2	76	118
	-55	0.17	0.69	1.55	2.76	4.32	7.3	11.1	17.3	27.0	44.2	69	108
	-50	0.16	0.63	1.41	2.51	3.93	6.7	10.0	15.7	24.5	40.2	63	98
	-45	0.14	0.57	1.27	2.26	3.53	6.0	9.0	14.1	22.1	36.2	57	88
	-40	0.13	0.50	1.13	2.01	3.14	5.3	8.0	12.6	19.6	32.2	50	78

吸盘尺寸 Suction cup size (φ63~φ340)

单位 unit: N

吸盘尺寸 Suction cup size	mm	φ63	φ80	φ100	φ125	φ150	φ250	φ300	φ340
S吸盘尺寸的面积 S suction cup size area	cm ²	31.2	50.2	78.5	122.7	176.6	490.6	706.5	907.5
真空压力 Vacuum pressure kPa	-85	265	427	667	1043	1501	4170	6005	7714
	-80	250	402	628	982	1413	3925	5652	7280
	-75	234	377	589	920	1325	3680	5299	6806
	-70	218	351	550	859	1236	3434	4946	6353
	-65	203	326	510	798	1148	3189	4592	5899
	-60	187	301	471	736	1060	2944	4239	5445
	-55	172	276	432	675	971	2698	3886	4991
	-50	156	251	393	614	883	2453	3533	4538
	-45	140	226	353	552	795	2208	3179	4084
	-40	125	201	314	491	706	1962	2826	3630

椭圆型吸盘 Elliptical suction cup (2×4~8×30)

单位 unit: N

吸盘尺寸 Suction cup size	mm	2×4	3.5×7	4×10	5×10	6×10	4×20	5×20	6×20	8×20	4×30	5×30	6×30	8×30
S吸盘尺寸的面积 S suction cup size area	cm ²	0.07	0.21	0.36	0.44	0.52	0.76	0.94	1.12	1.46	1.16	1.44	1.72	2.26
真空压力 Vacuum pressure kPa	-85	0.60	1.79	3.06	3.74	4.42	6.46	7.99	9.52	12.41	9.86	12.24	14.62	19.21
	-80	0.56	1.68	2.88	3.52	4.16	6.08	7.52	8.96	11.68	9.28	11.52	13.76	18.08
	-75	0.53	1.58	2.70	3.30	3.90	5.70	7.05	8.40	10.95	8.70	10.80	12.90	16.95
	-70	0.49	1.47	2.52	3.08	3.64	5.32	6.58	7.84	10.22	8.12	10.08	12.04	15.82
	-65	0.46	1.37	2.34	2.86	3.38	4.94	6.11	7.28	9.49	7.54	9.36	11.18	14.69
	-60	0.42	1.26	2.16	2.64	3.12	4.56	5.64	6.72	8.76	6.96	8.64	10.32	13.56
	-55	0.39	1.16	1.98	2.42	2.86	4.18	5.17	6.16	8.03	6.38	7.92	9.46	12.43
	-50	0.35	1.05	1.80	2.20	2.60	3.80	4.70	5.60	7.30	5.80	7.20	8.60	11.30
	-45	0.32	0.95	1.62	1.98	2.34	3.42	4.23	5.04	6.57	5.22	6.48	7.74	10.17
	-40	0.28	0.84	1.44	1.76	2.08	3.04	3.76	4.48	5.84	4.64	5.76	6.88	9.04

● 真空吸盘的形状 Vacuum cup shape

- 真空吸盘有平型、深型、风琴型、薄型、带肋平型、椭圆型等。请根据工件以及使用环境选择最合适的形状。另外，关于样本上没有记录的形状，请咨询本公司。
- The vacuum chuck has a flat type, a deep type, an organ type, a thin type, a ribbed flat type, an elliptical type, and the like. Please select the most suitable shape according to the workpiece and the environment. In addition, please refer to the company about the shape that is not recorded on the sample.

型号选定方法 Model selection method

形状类别 Shape category

吸盘形状 Suction cup shape	用途 Use	吸盘形状 Suction cup shape	用途 Use
 <p>平型 Flat type</p>	表面平整不变形的场合。 The surface is flat and does not deform.	 <p>头可摆动型 Head swingable</p>	工件的吸着面不水平的场合。 When the suction surface of the workpiece is not horizontal.
 <p>带肋平型 Ribbed fet</p>	易变形的场合，想进行工件彻底脱离的场合。 In the case of easy deformation, it is desirable to completely remove the workpiece.	 <p>长行程缓冲器 Long stroke buffer</p>	工件高度不一的场合，以及需要缓冲的场合。 When the workpiece is short and the buffer is needed.
 <p>深型 Deep type</p>	工件呈曲面形状的场合。 Where the workpiece has a curved shape.	 <p>大型吸盘 Large suction cup</p>	重的工件。 Heavy workpiece.
 <p>风琴型吸盘 Organ sucker</p>	没有安装缓冲的空间，工件吸着面倾斜的场合。 There is no buffer space installed, and the workpiece suction surface is inclined.	 <p>导电性吸盘 Conductive suction cup</p>	作为静电对策的一种方式，使用了电阻率下降的橡胶。 防止带静电。 As one method of countermeasure against static electricity, a rubber having a decreased electrical resistivity is used. Prevent charging.
 <p>椭圆形吸盘 Elliptical suction cup</p>	吸着面少的工件，以及长工件上要进行定位的场合。 A workpiece with a small suction surface and a position where a long workpiece is to be positioned.		

真空吸盘的材质 Vacuum suction cup material

- 根据工件的形状、使用环境和对适合性、吸着痕迹的影响、导电性等各方面考虑后，有必要确定真空吸盘的材质。
- 参考各类材质类别的搬运工件的例子，确认橡胶的特性（适合性）后再选择。
- According to the shape of the workpiece, the environment of use, and the effects on suitability, sorption traces, and conductivity, it is necessary to determine the material of the vacuum chuck.
- Refer to the examples of handling workpieces in various material categories and confirm the characteristics (suitability) of the rubber before selecting.

真空吸盘/搬运工件例 Vacuum chuck / handling workpiece example

材质类别 Material category

材质 Material	用途 USE
NBR	瓦楞纸板、胶合板、铁板以及其他一般性的工件 Corrugated board, plywood, iron sheets and other general workpieces
硅橡胶 Silicone Rubber	半导体、金属模具的取出/薄型工件、食品相关 Semiconductor, metal mold removal / thin workpiece, food related
聚氨酯橡胶 Polyurethane rubber	瓦楞纸板、铁板、胶合板 Corrugated cardboard, iron plate, plywood
FKM	化学性的工件 Chemical workpiece
导电性NBR Conductive NBR	半导体的一般工件（静电对策） General workpiece of semiconductor (static countermeasures)
导电性硅橡胶 Conductive NBR	半导体（静电对策） Semiconductor (static countermeasures)

橡胶材质识别 Rubber material identification

一般名 General name	NBR丁腈橡胶 NBR nitrile rubber	硅橡胶 Silicone Rubber	聚氨酯橡胶 Polyurethane rubber	FKM氟橡胶 FKM fluororubber	Lh无痕 LH No trace	EPR乙丙橡胶 EPR ethylene propylene rubber	导电性NBR丁腈橡胶 Conductive NBR nitrile rubber	导电性硅橡胶 SE Conductive silicone rubber	导电性硅橡胶海绵 Conductive CR sponge	导电性CR海绵 丁腈海绵 Conductive CR sponge neoprene sponge
橡胶色 Rubber color	黑 Black	白/红 White Red	橙 Orange	灰 Ash	黑 Black	黑 Black	黑 Black	黑 Black	黑 Black	黑 Black
识别（点或压痕） Identification (point or indentation)	-	-	-	Ⓢ	红色1点 red 1 point Ⓢ	Ⓢ	银色1点 Silver 1 point	白色1点 White 1 point	-	-

橡胶材质与特性 Rubber material and characteristics

一般名 General name	NBR丁腈橡胶 NBR nitrile rubber	硅橡胶 Silicone Rubber	聚氨酯橡胶 Polyurethane rubber	FKM氟橡胶 FKM fluororubber	Cr氯丁橡胶 CR neoprene	EPR乙丙橡胶 EPR ethylene propylene rubber	导电性NBR丁腈橡胶 Conductive NBR nitrile rubber	导电性硅橡胶 Conductive silicone rubber	导电性硅橡胶海绵 Conductive CR sponge	导电性CR海绵 丁腈海绵 Conductive CR sponge neoprene sponge
主要特点 Main feature	耐油性、耐老化性、耐老化性良 Good oil resistance, wear resistance and aging resistance	耐热性与耐寒性优良 Excellent heat resistance and cold resistance	机械强度高 Excellent mechanical strength	最高的耐热性与耐化学性 Highest heat resistance and chemical resistance	拥有耐候性、耐臭氧性、耐化学品的性质 Weather resistant, ozone resistant, chemical resistant	耐老化性耐臭氧性、电气的性质良 Aging resistance, ozone resistance, electrical properties	耐油性、耐老化性、耐老化性良 Good oil resistance, wear resistance and aging resistance. 具有导电性 Conductive.	高耐热性与耐老化性 High heat resistance and aging resistance. 具有导电性 Conductive.	耐热性、绝缘性优良 Thermal insulation and resistance	耐油性、耐老化性、耐老化性良 Excellent resistance and aging resistance. 具有导电性 Conductive.
纯橡胶的性质（比重） The nature of pure rubber (specific gravity)	1.00-1.20	0.95-0.98	1.00-1.30	1.80-1.82	1.15-1.25	0.85-0.87	1.00-1.20	0.95-0.98	0.4g/cm ³	1.16g/cm ³
回弹性 Resilience	○	⊙	⊙	△	⊙	○	○	⊙	×~△	×~△
耐疲劳性 Wear resistance	⊙	×~△	⊙	⊙	⊙	○	⊙	×~△	×	×
撕裂阻抗 Tear impedance	○	×~△	⊙	○	○	△	○	×~△	×	×
耐弯曲龟裂性 Bending resistance	○	×~○	⊙	○	○	○	○	×~○	×	×
最高使用温度℃ Maximum use temperature ℃	120	200	60	250	150	150	100	200	180	120
最低使用温度℃ Minimum use temperature ℃	0	-30	0	0	-40	-20	0	-10	-30	-20
体积固有阻抗cm Volume inherent impedance cm	-	-	-	-	-	-	10'以下	10'以下	4.8×10'	3.8×10'
热老化性 Heat aging	○	⊙	△	⊙	○	○	○	⊙	△	△
耐候性 Weather resistance	○	⊙	⊙	⊙	⊙	○	○	⊙	△	△
耐臭氧性 Ozone resistance	△	⊙	⊙	⊙	○	⊙	△	⊙	△	△
耐气体透过性 Gas permeability resistance	○	×~△	×~△	×~△	○	×~△	○	×~△	×	×
汽油/轻油 Gasoline/light oil	⊙	×~△	⊙	⊙	○	×	⊙	×~△	×	×
苯/甲苯 Benzene/toluene	×~△	×	×~△	⊙	×~△	×	×~△	×	×	×
乙醇 Ethanol	⊙	⊙	△	△~⊙	⊙	⊙	⊙	⊙	△	△
乙醇 Ether	×~△	×~△	×	×~△	×~△	○	×~△	×~△	×	×
酮类 Ketone MEK	×	○	×	×	△~○	⊙	×	○	×	×
醇类 Ethyl alcohol	×~△	△	×~△	×	×~△	⊙	×~△	△	×	×
水 Water	⊙	○	△	⊙	⊙	⊙	⊙	○	○	○
有机酸 Organic acid	×~△	○	×	△~○	×~△	×	×~△	○	×	×
高浓度有机酸 High concentration organic acid	△~○	△	×	⊙	○	○	△~○	△	×	×
低浓度有机酸 Low concentration organic acid	○	○	△	⊙	⊙	⊙	○	○	×	×
强碱 Strong base	○	⊙	×	○	⊙	⊙	○	⊙	△	△
弱碱 Weak base	○	⊙	×	○	⊙	⊙	○	⊙	△	△

- ⊙=优...完全、或几乎没有影响。
- =良...有若干影响，根据条件可充分使用。
- △=可...尽量不要使用
- ×=不可...有强烈的影响，不适合使用。
- ※记载的特性、耐化学性以及其它数值非保证值。
- 因使用环境的不同会有很大的出入，本公司不作任何保证，请充分调查确认使用。
- ⊙=Excellent...complete, or almost no effect.
- =Good... There are several effects that can be fully used depending on the conditions.
- △=Can't... have a strong influence and are not suitable for use.
- ×=not...has a strong influence and is not suitable for use.
- ※The stated physical properties, chemical resistance, and other numerical values are not guaranteed.
- The company does not guarantee any difference due to the different use environment. Please fully investigate and confirm the use.

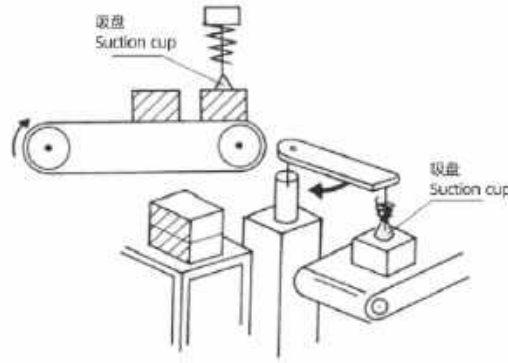
型号选定方法 Model selection method

● 缓冲的有无 Buffering presence or absence

- 在工件的高度上有差别的场合，弱冲击的工件的吸着（对工件的缓冲）的场合应带缓冲。还有，需要定位的场合，可选择带不可回转的缓冲。
- Where there is a difference in the height of the workpiece, the suction of the weakly impacted workpiece (buffering of the workpiece) should be buffered. Also, if positioning is required, a buffer with no rotation can be selected.

吸盘和工件间的距离不一定的场合 Where the distance between the suction cup and the workpiece is not constant

- 高度不齐的工件的吸着等、吸盘和工件的位置不确定的场合，使用内置弹簧型的带缓冲的吸盘。吸盘和工件能缓冲。再需要定位的场合，带不可回转的缓冲。
- In the case where the height of the workpiece is sucked, etc., and the position of the suction cup and the workpiece is uncertain, a built-in spring type buffered suction cup is used. Suction cups and workpieces can be cushioned. In the case where positioning is required again, there is a buffer that cannot be rotated.



● 适应工件的对应例 Corresponding examples of adapting to workpieces

- 以下所示工件的场合应注意。
- Note the following for the workpiece shown below.

① 工件上有通气性孔的场合 Where there is a venting hole in the workpiece

- 多孔质的工件和纸等有通气性的工件吸着的场合，吸起工件时，应选取十分小的直径的吸盘。另外，空气泄漏量多的场合，因吸着力低，真空发生器和真空泵的能力应提高，配管通路的流通能力应大等对策是必要的。
- When a porous workpiece or a ventilating workpiece such as paper is sucked, a suction cup of a very small diameter should be selected when sucking up the workpiece. In addition, when there is a large amount of air leakage, it is necessary to reduce the capacity of the vacuum generator and the vacuum pump due to the low suction force, and to increase the flow capacity of the piping passage.



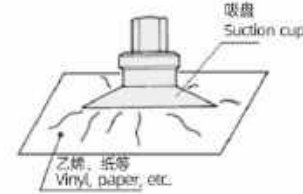
② 平板工件的场合 Flat workpiece occasion

- 面积大的玻璃板、基板等吊起的场合，由于风压加有大的力，由于冲击，有起波现象。考虑吸盘的配置和大小是必要的。
- When a large glass plate or a substrate is lifted, a large force is applied to the wind pressure, and a wave phenomenon occurs due to the impact. It is necessary to consider the configuration and size of the suction cup.



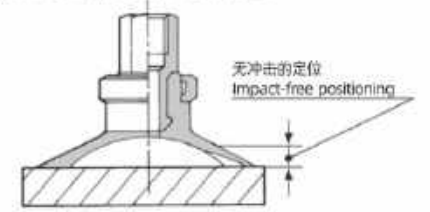
① 柔软工件的场合 Soft workpiece

- 吸着乙烯·纸·薄板等柔软的工件时，由于真空压力，工件会变形，因有折皱，应使用小型的吸盘和带肋吸盘，而且真空压力低是必要的。
- When a soft workpiece such as vinyl paper or sheet is sucked, the workpiece may be deformed due to vacuum pressure. Due to wrinkles, a small suction cup and a ribbed suction cup should be used, and a low vacuum pressure is necessary.



② 关于吸盘受冲击 About sucker shock

- 吸盘压紧在工件上的场合，不要加冲击和大的力。吸盘的变形、龟裂、磨损快。吸盘的按压在唇部的变形范围内，肋部等轻压。特别是小径吸盘，定位要正确。
- When the suction cup is pressed against the workpiece, do not add impact and large force. The suction cup is deformed, cracked and worn quickly. The pressing of the suction cup is within the deformation range of the lip, and the ribs and the like are lightly pressed. Especially the small diameter suction cup, the positioning should be correct.



● 真空吸盘的耐久性 Vacuum chuck durability

- 对真空吸盘(橡胶)的劣化的注意是必要的。
- 使用真空吸盘，吸着面磨损、外形慢慢变小。由于吸盘直径减少，吸吊力也减少，但吸着是可能的。
- 真空吸盘的更换期大大受使用条件的影响，推定更换期是非常困难的。客户应依据实际的使用状况来判断。
- Attention to the deterioration of the vacuum chuck (rubber) is necessary.
- Using a vacuum chuck, the suction surface wears and the shape gradually becomes smaller. As the diameter of the suction cup is reduced, the suction force is also reduced, but sorption is possible.
- The replacement period of the vacuum chuck is greatly affected by the conditions of use, and it is very difficult to estimate the replacement period. Customers should judge based on the use of the situation.

3 工件吸着时的泄漏量 The amount of leakage when the workpiece is sucked

根据工件的种类，吸盘吸有些工件也会吸入大气，使吸盘内达不到吸着工件所必须的真空度。吸着这样的工件时，要考虑工件的泄漏量来选定真空发生器、真空切换阀的尺寸。

Depending on the type of the workpiece, some of the workpiece sucked into the atmosphere will be sucked into the atmosphere, so that the vacuum inside the suction cup cannot be reached. When absorbing such a workpiece, the size of the vacuum generator and the vacuum switching valve should be selected in consideration of the amount of leakage of the workpiece.



● 已知工件流导的场合，求泄漏量的方法 When the workpiece conductance is known, the method of obtaining the leakage amount

泄漏量 $QL=11.1 \times 5 \times CL$

QL: 泄漏量 L/min(ANR)

CL: 工件和吸盘的间隙或工件开口处的流导 [dm³/(S·bar)]

Leakage $QL=11.1 \times 5 \times CL$

QL: Leakage L/min(ANR)

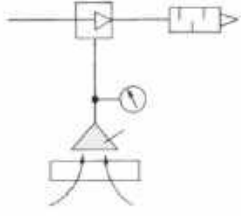
CL: The gap between the workpiece and the suction cup or the conductance at the opening of the workpiece [dm³/(S·bar)]

● 根据吸着实验求泄漏量的方法 Method for obtaining leakage according to sorption experiment

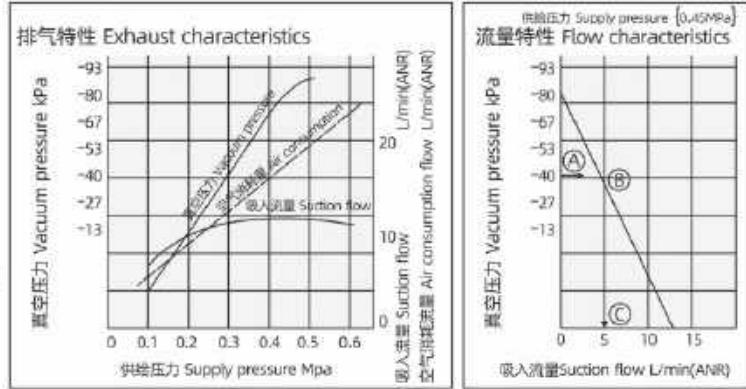
- 如下图所示，将工件用真空发生器、吸盘、真空表进行吸着。
- 由真空表读出真空压力P1，查真空发生器的流量特性表，其吸入流量即为工件的泄漏量。

- As shown in the figure below, the workpiece is sucked with a vacuum generator, a suction cup, and a vacuum gauge.
- The vacuum pressure P1 is read from the vacuum gauge, and the flow characteristic table of the vacuum generator is checked. The suction flow rate is the leakage amount of the workpiece.

型号选定方法 Model selection method



VZU07S



例题：供给压力为0.45MPa时，真空发生器（VZU□S）吸着有泄漏的工件的情况下，真空表压力为-53kPa，求工件的泄漏量。

查VZU□S的流量特性表，在-53kPa真空度下的吸入流量为5L/min(ANR)(A→B→c) 泄漏量=吸入流量5L/min(ANR)

Example: When the supply pressure is 0.45MPa, when the vacuum generator (VZU□S) sucks the leaked workpiece, the vacuum gauge pressure is -53kPa, and the leakage of the workpiece is obtained.

Check the flow characteristics of the VZU□S. The suction flow rate at -53 kPa vacuum is 5 L/min (ANR) (A→B→c). Leakage = Intake flow rate 5L/min (ANR)

4 求吸著响应时间 Sucking response time

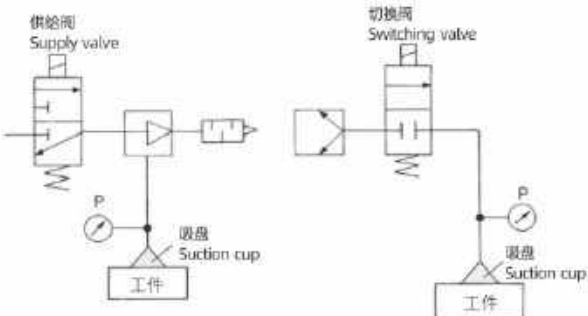
- 用吸盘吸着工件搬运的情况，从供给阀或真空切换阀动作后到吸盘内真空压力达到吸著所必须的真空度的时间，称为吸著响应时间。
吸著响应时间可使用算法或图解法大致求出。
When the workpiece is transported by the suction cup, the time from when the supply valve or the vacuum switching valve is actuated to when the vacuum pressure in the suction cup reaches the vacuum required for the suction is called the suction response time.
The sorption response time can be roughly determined using a calculation method or a graphic method.

供给阀(切换阀)动作后的真空压力和响应时间的关系 Relationship between vacuum pressure and response time after the supply valve (switching valve) is actuated

供给阀(切换阀)动作后的真空压力和响应时间的关系如下。 The relationship between the vacuum pressure and the response time after the supply valve (switching valve) operates is as follows.

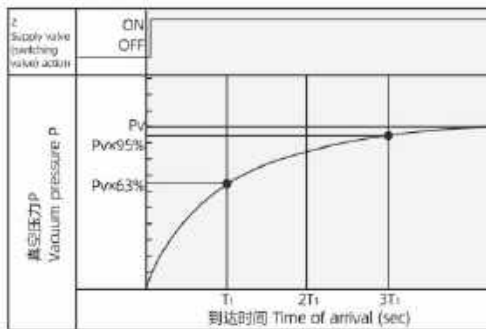
真空系统回路 Vacuum system circuit

- 吸着乙烯·纸·薄板等柔软的工件时，由于真空压力，工件会变形，因有折皱，应使用小型的吸盘和带肋吸盘，而且真空压力低是必要的。
When a soft workpiece such as vinyl paper or sheet is sucked, the workpiece may be deformed due to vacuum pressure. Due to wrinkles, a small suction cup and a ribbed suction cup should be used, and a low vacuum pressure is necessary.



供给阀(切换阀)动作后的真空压力与响应时间 Vacuum pressure and response time after the supply valve (switching valve) is actuated

- 吸盘压紧在工件上的场合，不要加冲击和大的力。吸盘的变形、龟裂、磨损快。吸盘的按压在唇部的变形范围内，肋部等轻压。特别是小径吸盘，定位要正确。
When the suction cup is pressed against the workpiece, do not add impact and large force. The suction cup is deformed, cracked and worn quickly. The pressing of the suction cup is within the deformation range of the lip, and the ribs and the like are lightly pressed. Especially the small diameter suction cup, the positioning should be correct.



Pv: 最终真空压力 Final vacuum pressure
T1: 最终真空Pv的63%的到达时间 63% arrival time of the final vacuum Pv (sec)
T2: 最终真空Pv的95%的到达时间 95% arrival time of the final vacuum Pv (sec)

根据计算式求吸著响应时间的方法 Method for absorbing response time according to calculation formula

吸著响应时间T1,T2由下式求。 The suction response time T1, T2 is obtained by the following equation.

Equations for T1, T2, and piping volume V. Includes definitions for T1, T2, Q1, Q2, D, L, V, and C.

关于配管的流导由6.资料「管各内径流导(选定表e)」中求得。 The conductance of the piping is obtained from the data "tube inner diameter conductance (selected table e)".

5 真空用元件选定上的注意事项以及本公司建议 Precautions for the selection of components for vacuum and our company's recommendations

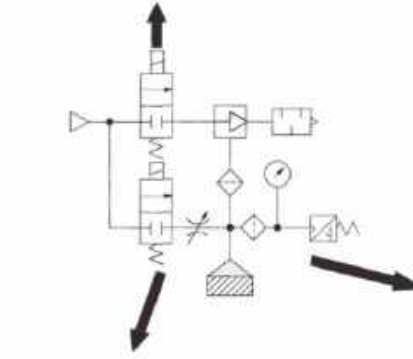
安全对策 Safety countermeasure

- 考虑到停电、空气源停止时对于真空压力降低时的安全设计。
特别是考虑到工件落下的危险，必须设计防止落下的安全对策。
Consider the safety design when the vacuum pressure is reduced when the power is off and the air source is stopped.
In particular, it is necessary to consider the danger of the falling of the workpiece, and it is necessary to design a safety countermeasure against falling.

真空元件选定上的注意 Vacuum component selection

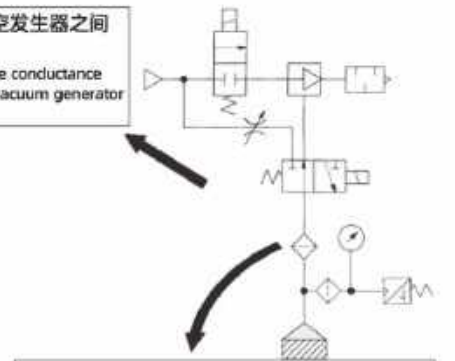
考虑到停电，供给阀应选用常通式或带自我保持功能的阀。 In view of the power outage, the supply valve should be a conventional or self-holding valve.

使用真空切换阀，吸盘与真空发生器之间的流导不能小。 With a vacuum switching valve, the conductance between the suction cup and the vacuum generator cannot be small.



破坏阀应选用低真空规格的2.3通阀。为了调节破坏流量，应使用针阀。 The destruction valve should be a 2.3-way valve with a low vacuum specification. In order to regulate the damage flow, a needle valve should be used.

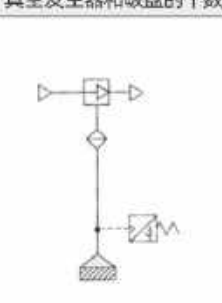
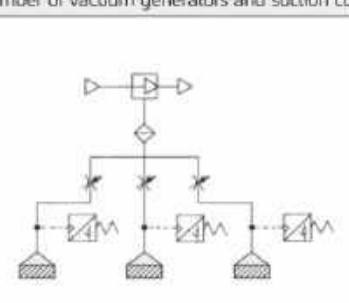
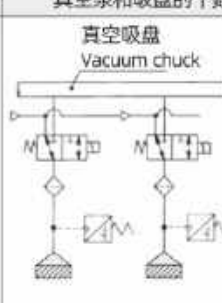
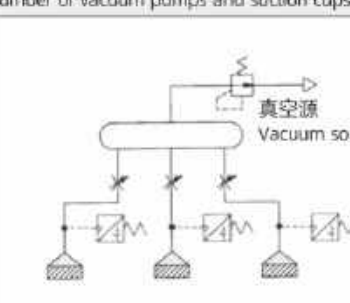
- 工件的吸著和搬送，由真空压力开关确定。
吸吊重物及危险时，应并用真空表进行目视确认。
用小孔口吸着搬运小件，宜选用ZSP1型开关。
真空在环境恶劣的氛围，压力开关前应加装真空过滤器。
When lifting heavy objects and dangers, use a vacuum gauge for visual confirmation.
Use a small hole to suck and carry small parts, you should choose ZSP1 type switch.
Vacuum in a harsh environment, vacuum filters (ZFA, ZFB, ZFC series) should be installed before the pressure switch.



- 为保护切换阀，防止滤芯堵塞，应使用真空过滤器。此外，在灰尘多的环境中使用时，请与真空过滤器一起使用。
否则，组件的滤芯会过早堵塞。
To protect the switching valve and prevent clogging of the filter element, vacuum filters (ZFA, ZFB, ZFC series) should be used.
Also, when using it in a dusty environment, use it with a vacuum filter.
Otherwise, the filter element of the assembly will block prematurely.

型号选定方法 Model selection method

真空发生器、泵和吸盘的个数 Number of vacuum generators, pumps and suction cups

真空发生器和吸盘的个数 Number of vacuum generators and suction cups	真空泵和吸盘的个数 Number of vacuum pumps and suction cups
 <ul style="list-style-type: none"> 一个真空发生器带一个吸盘是理想的。 A vacuum generator with a suction cup is ideal. 	 <ul style="list-style-type: none"> 一个真空发生器带多个吸盘的情况，1个工件脱落，则真空压力下降，其它工件也会脱落，可采取如下措施： 使用针阀，使吸着和未吸着的真空度变化减小。 每个吸盘都设有真空切换阀，吸着失效时切换不影响其它吸盘的工作。 When a vacuum generator has multiple suction cups, if one workpiece falls off, the vacuum pressure drops and other workpieces fall off. The following measures can be taken: The use of a needle valve reduces the change in vacuum pressure between sucked and unsucked. Each suction cup is provided with a vacuum switching valve, and the valve switching does not affect the operation of other suction cups when the suction fails.
 <ul style="list-style-type: none"> 一个真空管路带一个吸盘。 A vacuum line with a suction cup. 	 <ul style="list-style-type: none"> 一个真空管路带多个吸盘的情况，可采取如下对策。 使用针阀，使吸着和未吸着的真空度变化减小。 利用真空罐及真空减压阀，调压回来（稳定气）源压力。 每个吸盘都没有真空切换阀，吸着失效时切换不影响其它吸盘的工作。 When a vacuum line has multiple suction cups, the following measures can be taken: The needle valve is used to reduce the change in vacuum of the sucked and unsucked. The vacuum tank and the vacuum pressure reducing valve and the pressure regulating valve are used to stabilize the vacuum pressure. Each suction cup is provided with a vacuum switching valve, and the valve switching does not affect the operation of other suction cups when the suction fails.

6 真空用元件的选定例 Selected examples of components for vacuum

半导体芯片的搬运 Handling of semiconductor chips

选定条件：①工件：半导体芯片
尺寸：8mm×8mm×1mm、质量：1g
②真空侧配管长：1m
③吸着响应时间：300msec以下

Selected condition: ①Workpiece: semiconductor chip
Size: 8mm×8mm×1mm, Quality: 1g
②Vacuum side piping length: 1m
③Sucking response time: 300msec the following

1. 真空吸盘的选定 Selection of vacuum chucks

- 由工件的大小，吸盘直径选4mm(1个)
- 由前附(P17页)的计算式，确认吸力。

$$W = P \times S = 0.1 \times 1 / t$$

$$0.0098 = P \times 0.13 \times 0.1 / 1 / 4$$

$$P = 3.0 \text{ kPa}$$

由计算结果，在 +3.0kPa 以上的真空度可以判断工件可吸着。

- 由工件的形状及种类
选吸盘形状：平型
吸盘材质：硅

- 由以上的结果，真空吸盘的型号为VPA40VFS-□□□。
(真空取出口□□□，由吸盘的安装状态决定)

2. 真空发生器的选定 Selection of vacuum generator

- 求真空侧配管容积。

假定管子内径为2mm，配管容积则为。
 $V = \pi / 4 \times D \times l / 1000 = \pi / 4 \times 2 \times 1 \times 1 / 1000$
 $= 0.0031 \text{ L}$

- 吸着时无泄漏(QL)，由前附17的计算式，求达到吸着响应时间的平均吸入流量。

$Q = (V \times 60) / T1 + QL = (0.0031 \times 60) / 0.3 + 0 = 0.62 \text{ L}$
由前附17的计算式，最大吸入流量Qmax为
 $Q_{max} = (2 \sim 3) \times Q = (2 \sim 3) \times 0.62$
 $= 1.24 \sim 1.86 \text{ L/min(ANR)}$

- by the size of the workpiece, the diameter of the suction cup is 4mm (1)

- Confirm the suction force from the calculation formula in the previous section 17.

$$W = 1g = 0.0098 \text{ N}$$

$$S = \pi r^2 / 4 \times (0.4)^2 = 0.13 \text{ cm}^2$$

$$t = 4 \text{ (水平吊上 Horizontal hanging)}$$

From the calculation results, it is judged that the workpiece can be sucked at a degree of vacuum of +3.0 kPa or more.

- by the shape and type of the workpiece
Selection of suction cup shape: flat type
Suction cup material: silicon

- From the above results, the model number of the vacuum chuck is VPA40VFS-□□□.
(vacuum take-out □□□, determined by the installation state of the suction cup)

- Find the vacuum side piping volume.

Assume that the inner diameter of the pipe is 2 mm and the pipe volume is .
 $V = \pi / 4 \times D \times l / 1000 = \pi / 4 \times 2 \times 1 \times 1 / 1000$
 $= 0.0031 \text{ L}$

- No leakage (QL) when sucking, the average suction flow rate of the sorption response time is obtained by the calculation formula of the above.

$Q = (V \times 60) / T1 + QL = (0.0031 \times 60) / 0.3 + 0 = 0.62 \text{ L}$
According to the calculation formula of the foregoing, the maximum suction flow rate Qmax is
 $Q_{max} = (2 \sim 3) \times Q = (2 \sim 3) \times 0.62$
 $= 1.24 \sim 1.86 \text{ L/min(ANR)}$

- 由真空发生器的最大吸入流量，判断喷嘴直径0.5可使用。
- (配合使用条件，决定使用的真空发生器的完整型号。)

- From the maximum suction flow rate of the vacuum generator, it is judged that the nozzle diameter of 0.5 can be used.
- (In accordance with the conditions of use, determine the full model of the vacuum generator used.)

3. 吸着响应时间的确认 Smoking response time confirmation

由选定的真空发生器的特性，进行响应时间的确认。

- 如真空发生器的最大吸入流量是5L/min，由前附18的计算式，平均吸入流量Q1为

$$Q1 = (1/2 \sim 1/3) \times \text{真空发生器的最大吸入流量}$$

$$= (1/2 \sim 1/3) \times 5 = 2.5 \sim 1.7 \text{ L/min}$$

- 其次，按配管最大流量Q2。配管的流导C由选定图③求，C=0.22。由前附18的计算式，配管的最大流量如下

$$Q2 = 5 \times C \times 11.1 = 5 \times 0.22 \times 11.1 = 12.2 \text{ L/min}$$

- 因Q1比Q2小，故选Q=Q1

因此，吸着响应时间由前附18的计算式

$$T = (V \times 60) / Q = (0.0031 \times 60) / 1.7 = 0.109 \text{ 秒}$$

$$= 109 \text{ msec}$$

确认要求规格满足300msec。

The response time is confirmed by the characteristics of the selected vacuum generator.

- Because the maximum suction flow rate of the vacuum generator 5L/min, the calculation formula of the previous 18, the average suction flow rate Q1 is

$$Q1 = (1/2 \sim 1/3) \times \text{maximum suction flow rate of vacuum generator}$$

$$= (1/2 \sim 1/3) \times 5 = 2.5 \sim 1.7 \text{ L/min}$$

- Next, the maximum flow rate Q2 is obtained according to the piping. The conductance C of the piping is determined by the selected Fig. 3, C = 0.22. According to the calculation formula of the previous 18, the maximum flow rate of the piping is as follows

$$Q2 = 5 \times C \times 11.1 = 5 \times 0.22 \times 11.1 = 12.2 \text{ L/min}$$

- Because Q1 is smaller than Q2, choose Q=Q1

Therefore, the sorption response time is calculated by the previous 18

$$T = (V \times 60) / Q = (0.0031 \times 60) / 1.7 = 0.109 \text{ seconds}$$

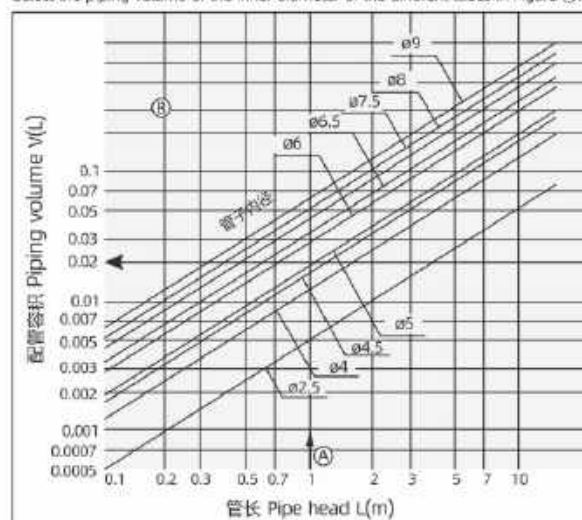
$$= 109 \text{ msec}$$

Confirm that the required specifications meet 300msec.

7 资料 Data

选定用图 Selected map

选定图②不同管子内径的配管容积
Select the piping volume of the inner diameter of the different tubes in Figure ②.



查图方法 Search method

例：求管径ø5。(管长1m的管子的容积的场合。)

<选定步骤>

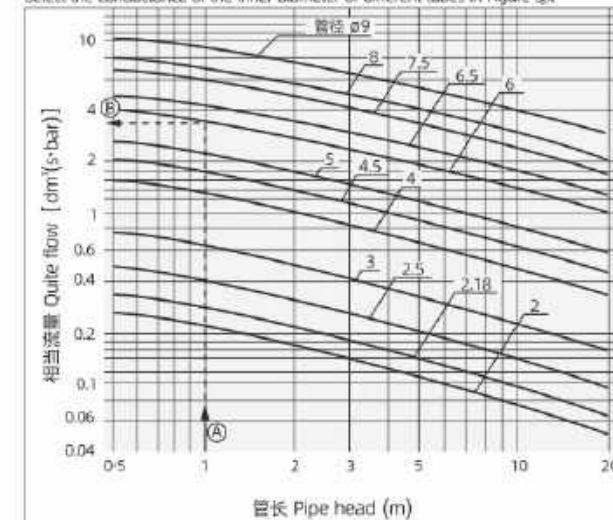
从横轴管长1m和管径ø5的线的交点，向左延长至纵轴的配管容积0.02L=配管容积=0.02L

Example: Find the pipe diameter ø5. (When the volume of the tube is 1 m long.)

<selected step>

From the intersection of the line of the horizontal axis tube length of 1 m and the pipe diameter of ø5, the pipe volume extending to the left to the vertical axis is 0.02 L = the pipe volume = 0.02 L

选定图③不同管子内径的流导
Select the conductance of the inner diameter of different tubes in Figure ③.



查图方法 Search method

例：求管尺寸ø8/ø6，1m的场合

<选定步骤>

从横轴管长1m和管径ø6的线的交点，向左延长至纵轴的相当流导与3.6 [dm³(s·bar)]

Example: For the case of tube size ø8/ø6, 1m

<selected step>

From the intersection of the line of the horizontal axis tube length of 1 m and the pipe diameter of ø6, the equivalent flow conductance to the left is extended to the left to 3.6 [dm³(s·bar)]

型号选定方法 Model selection method

真空吸着系统存在问题的对策(故障分析) Countermeasures for problems with vacuum suction system (fault analysis)

状态、改善内容 Status, improve content	要因 Factor	对策 Countermeasures
初期的吸着不良 (试运转时) Initial malabsorption (during trial operation)	吸着面积小 (与工件的重量比, 吸吊力小) Small suction area (the weight ratio to the workpiece, the suction force is small)	再确认工件的重量与吸吊力的关系 • 使用吸着面积大的真空吸盘 • 增加真空吸盘的个数 Confirm the relationship between the weight of the workpiece and the suction force • Use a vacuum suction cup with a large suction area • Increase the number of vacuum chucks
	真空度低 (从吸着面有泄漏) (有通气性的工件) Low vacuum (Leakage from the suction side) (airy workpiece)	从吸着面无泄漏(减少) • 真空吸盘的形状的重新评估 确认真空发生器的吸入流量与到达压力的关系 • 使用吸入流量大的真空发生器 • 增加吸着面积 No leakage from the absorbing surface (reduced) • Reevaluation of the shape of the vacuum chuck Confirm the relationship between the suction flow rate of the vacuum generator and the arrival pressure • Use a vacuum generator with a large suction flow • Increase the sorption area
	真空度低 Low vacuum (从真空配管漏 leak from vacuum piping)	修理泄漏处 Repair the leak
	真空回路的内容积大 The internal volume of the vacuum circuit	确认真空回路的内容积和真空发生器吸入流量的关系 • 减小真空回路的内容积 • 使用吸入流量大的真空发生器 Confirm the relationship between the inner volume of the vacuum circuit and the suction flow rate of the vacuum generator • Reduce the internal volume of the vacuum circuit • Use a vacuum generator with a large suction flow
	真空配管的压力降大 Vacuum piping has a large pressure drop	真空配管的重新评估 • 管子变短、变粗 (适合管径) Reevaluation of vacuum piping • The pipe becomes shorter and thicker (suitable for pipe diameter)
	真空发生器的供给压力不足 Insufficient supply pressure of the vacuum generator	测定真空发生状态的供给压力 • 使用标准供给压力 压缩空气回路(管路)的重新评估 Measuring the supply pressure of the vacuum generation state • Use standard supply pressure Reevaluation of compressed air circuits (pipes)
	喷嘴、扩压段的孔眼阻塞 (配管时的异物混入) Nozzle obstruction of nozzle and diffuser section (Incorporated foreign matter during piping)	除去异物 Remove foreign matter
供给阀(切换阀)不动作 Supply valve (switching valve) does not operate	用万用表测定电磁阀的供给电压 • 电气回路、配线、插口的重新评估 • 在额定电压范围内使用 Use a multimeter to measure the supply voltage of the solenoid valve • Reevaluation of electrical circuits, wiring, and sockets • Use within the rated voltage range	
吸着时工件变形 Workpiece deformation when sucking	由于工件薄, 变形而泄漏 • 使用薄物吸着用吸盘 Leaked due to thin workpiece and deformation • Use a thin object to suck the suction cup	
真空到达时间慢 (响应时间缩短) Vacuum arrival time is slow (reduced response time)	真空回路的内容积大 The internal volume of the vacuum circuit	确认真空回路的内容积和真空发生器吸入流量的关系 • 减小真空回路的内容积 • 使用吸入流量大的真空发生器 Confirm the relationship between the inner volume of the vacuum circuit and the suction flow rate of the vacuum generator • Reduce the internal volume of the vacuum circuit • Use a vacuum generator with a large suction flow

状态、改善内容 Status, improve content	要因 Factor	对策 Countermeasures
真空到达时间慢 (响应时间缩短) Vacuum arrival time is slow (reduced response time)	真空配管的压力降大 Vacuum piping has a large pressure drop	真空配管的重新评估 • 管子变短、变粗(适合管径) Reevaluation of vacuum piping • The pipe becomes shorter and thicker (suitable for pipe diameter)
	必要的真空度过高 The necessary vacuum is too high	按吸盘直径的最优化, 真空度为必要最低限值。 真空发生器真空度高、吸入量多, 让吸盘直径大1号, 以降低必要真空度、增加吸入量。 According to the optimum diameter of the suction cup, the vacuum is the minimum necessary limit. The vacuum generator has a high degree of vacuum and a large amount of suction, so that the diameter of the suction cup is larger. In order to reduce the necessary vacuum and increase the amount of inhalation.
	真空压力开关的设定过高 Vacuum pressure switch setting is too high	适合的设定压力 Suitable set pressure
真空度的变动 Change in vacuum	供给压力的变动 Supply pressure change	压缩空气回路(气路)的重新评估 (追加气容等) Reevaluation of compressed air circuits (air lines) (additional gas capacity, etc.)
	真空发生器的特性上, 在一定的条件下, 真空度会变动。 The characteristics of the vacuum generator vary under certain conditions.	供给压力稍许升降点, 在真空度不变动的供给压力范围内使用。 The supply pressure is slightly raised and lowered, and is used within a supply pressure range in which the degree of vacuum does not change.
真空发生器的排气 有异声(间歇声)发生 Vacuum generator exhaust There is a strange sound (intermittent sound)	真空发生器的特性上, 在一定的条件下, 会发生间歇声。 In the characteristics of the vacuum generator, intermittent sound occurs under certain conditions.	供给压力稍许升降点, 在不发生间歇声的供给压力范围内使用。 The supply pressure is slightly raised and lowered, and is used within the supply pressure range where intermittent sound does not occur.
对集装型的真空发生器, 从真空口漏气 For the manifold type vacuum generator, leaking from the vacuum port	真空发生器的排气空气、停止中的其他的真空发生器的真空口回流。 The exhaust air of the vacuum generator and the vacuum port of the other vacuum generators that are stopped are recirculated.	使用带单向阀的规格的真空发生器 (带单向阀的真空发生器的型号向本公司询问) Use a vacuum generator with a check valve size (The model of the vacuum generator with check valve asks the company)
常时的吸着不良 (试运转时能吸着) Frequent sucking (It can be sucked during trial operation)	真空过滤器的孔眼阻塞 Obstruction of the vacuum filter	更换真空过滤器 Replace the vacuum filter 设置环境的改善 Setting environment improvement
	吸声材料的孔眼阻塞 Hole blocking of sound absorbing material	吸声材料的更换 的供给(压缩)空气回路上追加过滤器 追加设置真空过滤器 Replacement of sound absorbing materials Additional filter on the supply (compression) air circuit Additional vacuum filter
喷嘴、扩压段的阻塞 Nozzle, expansion of the diffuser	除去异物 在供给(压缩)空气回路上追加过滤器 追加设置真空过滤器 Remove foreign matter Add a filter to the supply (compression) air circuit Additional vacuum filter	
真空吸盘(橡胶)的劣化、磨损 Deterioration and wear of vacuum chuck (rubber)	真空吸盘的更换 真空吸盘材质和工件的适合性确认 Vacuum cup replacement Confirmation of suitability of vacuum chuck material and workpiece	
破坏流量不足 Insufficient flow of damage	破坏流量调整针阀开啓 Destruction flow adjustment needle valve open	

型号选定方法 Model selection method

真空吸著系统存在问题的对策(故障分析) Countermeasures for problems with vacuum suction system (fault analysis)

状态、改善内容 Status, improve content	要因 Factor	对策 Countermeasures
工件不能脱离 The workpiece cannot be separated	因真空吸盘(橡胶)的磨损, 粘著性增加 Increased adhesion due to abrasion of vacuum chuck (rubber)	真空吸盘的更换 真空吸盘材质和工件的适合性确认 Vacuum cup replacement Confirmation of suitability of vacuum chuck material and workpiece
	真空度过高 Vacuum is too high	让真空压力在必要最低限值 Let the vacuum pressure be at the minimum necessary limit
	静电的影响 Electrostatic effect	使用导电性吸盘 Use conductive suction cup

不适合事例 Not suitable for the case

■ 调试时没有问题, 开始运行后吸著变不稳定。

There is no problem during debugging, and the suction becomes unstable after starting the operation.

【发生要因 Cause】

- 真空开关的设定不合适, 供给压力不稳定, 使真空度未达设定值。
- 工件和真空吸盘间有泄漏。

- The setting of the vacuum switch is not suitable. The supply pressure is unstable, so that the vacuum does not reach the set value.
- There is a leak between the workpiece and the vacuum chuck.

【处置 Disposal】

- 1) (真空发生器的场合、供给压力) 设定在必要的真空度; 让真空开关的设定压力, 设定在吸著必要的真空度。
- 2) 调试时有泄漏, 要考虑到吸著时不是引起故障的因素。真空发生器、真空吸盘形状、直径、材质等要进行重新评估。进行真空吸盘的重新评估。

- 1) (In the case of a vacuum generator, supply pressure), the required vacuum degree is set; and the set pressure of the vacuum switch is set to the required vacuum degree.

- 2) There is a leak during commissioning, taking into account the factors that cause damage when absorbing. The vacuum generator, vacuum chuck shape, diameter, material, etc. should be re-evaluated. Perform a reassessment of the vacuum chuck.

■ 更换吸盘后, 吸著变得不稳定。

After the suction cup is replaced, the suction becomes unstable.

【发生要因 Cause】

- 初期的设定条件被变更(真空压力、真空开关的设定、吸盘的高度方向的位置等)。对于使用环境, 吸盘上产生磨损/失效等, 要进行设定变更。
- 吸盘更换时, 从螺纹连接部及吸盘与连接件的接合部产生泄漏。

- The initial setting conditions are changed (vacuum pressure, vacuum switch setting, position of the suction cup in the height direction, etc.). In the use environment, wear/failure occurs on the suction cup, and the setting is changed.
- When the suction cup is replaced, a leak occurs from the threaded connection portion and the joint portion between the suction cup and the connector.

【处置 Disposal】

- 1) 使用条件(真空压力、真空开关的设定压力、吸盘的高度方向设定位置等)要进行重新评估。
- 2) 再次, 接合部要进行重新审核。

- 1) The conditions of use (vacuum pressure, set pressure of the vacuum switch, height setting direction of the suction cup, etc.) are to be re-evaluated.
- 2) Again, the joint is subject to re-audit.

■ 相同工件用相同的吸盘吸著, 有不能被吸著的场所。

The same workpiece is sucked with the same suction cup, and there is a place where it cannot be sucked.

【发生要因 Cause】

- 工件和真空吸盘间有泄漏。
- 对气动回路, 气缸·电磁阀等, 与真空发生器的供给回路是同一系统, 同时使用时供给压力降低。(真空度达不到)
- 从螺纹连接部及吸盘与连接件的接合部产生泄漏。

- There is a leak between the workpiece and the vacuum chuck.

- For pneumatic circuits, cylinders, solenoid valves, etc., the same system as the supply circuit of the vacuum generator, and the supply pressure is reduced at the same time. (The degree of vacuum is not reached)

- Leakage occurs from the threaded connection and the mating portion of the suction cup and the connector.

【处置 Disposal】

- 1) 吸盘直径、形状、材质、真空发生器(吸入流量)等应重新评估。
- 2) 气动回路进行重新评估。
- 3) 再次连接部进行重新评估。

※真空吸盘原则上是用金属模具制作的。因此, 产品的误差几乎没有, 产品是稳定的。

- 1) Suction cup diameter, shape, material, vacuum generator (suction flow rate), etc. should be re-evaluated.
- 2) The pneumatic circuit is re-evaluated.
- 3) Reconnect the unit for reassessment.

※ Vacuum suction cups are in principle made of metal molds. Therefore, the product has almost no error and the product is stable.

■ 工件和吸盘不能脱离, 风琴型吸盘存在橡胶的粘附现象。

The workpiece and the suction cup cannot be separated, and the organ type suction cup has rubber adhesion.

【发生要因 Cause】

- 橡胶的一般特性有粘著性。依据使用环境(吸盘的磨损)等, 粘著性会增大。
- 使用必要以上的真空度, 设想以上的力(橡胶自身的粘著性+真空压力上的推压力)产生在吸盘(橡胶)部上。

- The general properties of rubber are tacky. Adhesion increases depending on the use environment (wearing of the suction cup).
- Using the necessary degree of vacuum, it is assumed that the above force (adhesiveness of the rubber itself + pressing force on the vacuum pressure) is generated on the suction cup (rubber) portion.

【处置 Disposal】

- 1) 真空吸盘的形状、材质、数量等进行重新评估。
- 2) 降低真空度。由于真空度下降, 吸吊力不足, 工件搬送时产生故障的场合, 可增加吸盘数量, 加大吸盘直径等进行重新评估。

- 1) Re-evaluate the shape, material, and quantity of the vacuum chuck.

- 2) Reduce the vacuum. Since the degree of vacuum is lowered, the suction force is insufficient, and the failure of the workpiece is conveyed, the number of suction cups can be increased, and the diameter of the suction cup can be increased for reevaluation.

■ 若用螺母安装, 缓冲的动作不平顺, 没有滑动现象产生。

If it is installed with a nut, the buffering action is not smooth and there is no slippage.

【发生要因 Cause】

- 安装缓冲时, 螺母紧固力矩值高。
- 滑动部上, 灰尘的附着或产生伤痕。
- 活塞杆上加横向负载, 产生偏磨。
- When the buffer is installed, the nut tightening torque value is high.
- On the sliding part, dust adheres or causes scratches.
- A lateral load is applied to the piston rod to produce a partial wear.

【处置 Disposal】

用推荐紧固力矩进行组装。

按使用条件·使用环境, 螺母有松动的场合, 要进行定期地维护。

Assembly with the recommended tightening torque.

Depending on the conditions of use and use environment, the nut may be loose. Regular maintenance is required.

真空吸盘的更换期 Vacuum cup replacement period

- 因真空吸盘是消耗品, 要定期进行更换。
- 经常使用真空吸盘时, 吸著面磨损, 外形部慢慢变小。由于吸盘直径变小, 吸吊力减少, 吸著是可能的。
- 推测真空吸盘的更换期有很大的困难。这受表面粗糙度、使用环境(温度、湿度、臭氧、溶剂等)、使用条件(真空度、工件重量、真空吸盘向工件的压紧力、缓冲的有无等)等的影响。
- 因此, 真空吸盘的更换期是指初次使用的状况下, 客户可按真空吸盘的更换期判断。
- 另外, 根据使用条件·使用环境, 螺母有松动的场合, 要定期进行维护。

- Since the vacuum chuck is a consumable item, it must be replaced periodically.

- When the vacuum chuck is often used, the suction surface is worn and the shape is gradually reduced. Since the diameter of the suction cup becomes smaller, the suction force is reduced, and suction is possible.

- It is speculated that the replacement period of the vacuum chuck has great difficulty. This is affected by surface roughness, use environment (temperature, humidity, ozone, solvent, etc.), use conditions (vacuum degree, workpiece weight, pressing force of the vacuum chuck to the workpiece, presence or absence of buffering, etc.).

- Therefore, the replacement period of the vacuum chuck refers to the condition of the initial use, and the customer can judge according to the replacement period of the vacuum chuck.

- In addition, depending on the conditions of use and the environment of use, the screws may be loose. Regular maintenance is required.

一般用 General use

产品规格 Product specifications		安装螺纹径 Nut tightening torque
吸盘直径 Suction cup diameter	安装螺纹径 Mounting thread diameter	
Ø2~Ø16 2004~4010	M8X1	1.5~2.0N.m
Ø10~Ø32	M10X1	2.5~3.5N.m
Ø20~Ø50	M14X1	6.5~7.5N.m

高负载吸盘更换时的推荐螺钉的紧固力矩

Tightening torque of recommended screws when replacing high load suction cups

产品规格 Product specifications		螺钉紧固力矩 Screw tightening torque
吸盘直径 Suction cup diameter	螺钉 Screw	
Ø40~Ø50	M3X8	0.7~0.9N.m
Ø63~Ø80	M4X8	0.9~1.1N.m
Ø100~Ø125	M5X10	2.3~2.7N.m

请用推荐的紧固力矩进行组装。
Please assemble with the recommended tightening torque.

B-ZP series

吸盘配件

Suction cup fittings

- 019 · B-ZP2-MU 低吸力吸盘 Low suction cup
- 022 · B-ZP2-AN 喷嘴吸盘 Nozzle suction cup
- 023 · B-ZP2-MT 扁平吸盘 Flat sucker Suction cup
- 025 · B-ZP2-MB 圆筒吸盘 Organ type cup
- 027 · B-ZP2-EU 扁平吸盘 Flat suction cup
- 029 · B-ZP2-UT 扁平吸盘 Flat suction cup
- 031 · B-ZP2-ZI 圆筒吸盘 Organ type cup
- 033 · B-ZP3-U/UM/B 小吸盘 Small suction cup
- 042 · B-ZP3-T/Y 连接器配件 Connector model
- 047 · B-ZP3-UM 各轴配件 Suction cup monitor
- 054 · B-ZP3-BM 各轴配件 Suction cup monitor
- 061 · B-ZP 垂直吸盘 Vacuum cup
- 063 · B-ZPT 垂直吸盘 Vertical vacuum nozzle type
- 067 · B-ZPP 连接器配件 Connector model



B-ZP2-MU series

Ø2, Ø3.5, Ø4, Ø5, Ø6, Ø8, Ø10, Ø15

Low suction cup - Suction cup monomer

MU(平型 Flat type)

低矮型吸盘-吸盘单体

- 用于高度方向的省空间化。
- It is used to save space in height direction.



型号表示方式 Model representation

B-ZP2 - 035 MU N

① 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter	真空吸附量 Suction capacity
B02	Ø2	●
B035	Ø3.5	●
B04	Ø4	●
B05	Ø5	●
B06	Ø6	●
B08	Ø8	●
B10	Ø10	●
B15	Ø15	●

* 吸盘规格：工件吸盘性增强。 Suctioning specifications: the suction of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

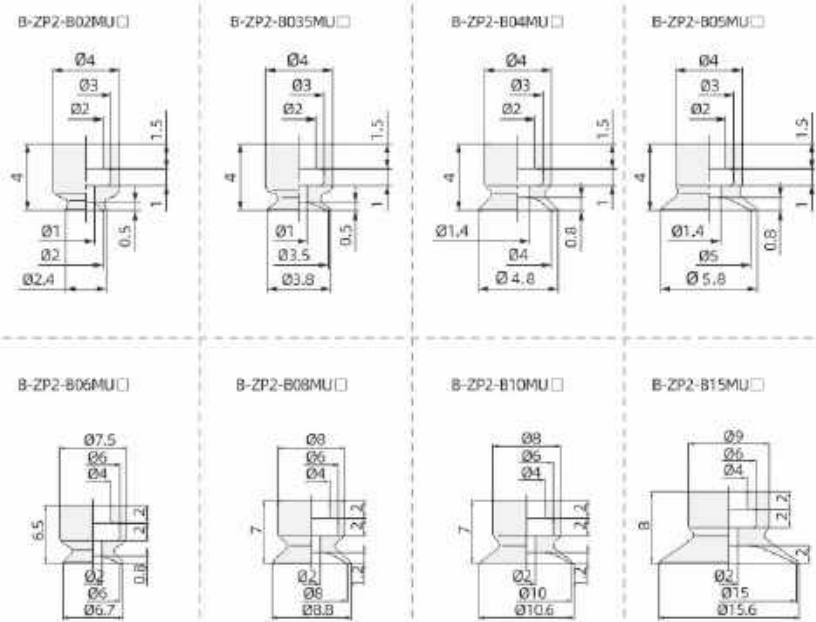
代号 Code	形状 Shape
MU	平型 Flat type

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电橡胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶 / 灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无氟定吸附衬垫 No-fluoro adsorption countermeasure

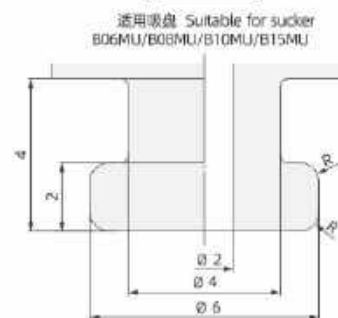
* N/S为常规材料，防静电、其他材料为特殊材料，起订量 100pcs。
* N/S is standard material, static-free, other material is special material, starting order quantity: 100pcs.

尺寸图表 Dimensional chart



④ 连接器安装部尺寸 Dimensions of connector mounting part

客户安装制作连接器的场合，请参考下记尺寸。 Please refer to the size below for the occasion where the connector is installed and manufactured by customer.



注) R部制作成倒圆角。(Note) R part is made into fillet.

Ø2, Ø3.5, Ø4, Ø5, Ø6, Ø8, Ø10, Ø15

Low suction cup - With connector

MU(平型 Flat type)

低矮型吸盘-吸盘单体

- 用于高度方向的省空间化。
- It is used to save space in height direction.



型号表示方式 Model representation

B-ZP2 - T B02 MU N - A3

① 真空引出方向 Vacuum suction direction

代号 Code	方向 Direction
T	垂直 Vertical

② 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter	真空吸附量 Suction capacity
B02	Ø2	●
B035	Ø3.5	●
B04	Ø4	●
B05	Ø5	●
B06	Ø6	●
B08	Ø8	●
B10	Ø10	●
B15	Ø15	●

* 吸盘规格：工件吸盘性增强。 Suctioning specifications: the suction of the workpiece is strengthened.

③ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
MU	平型 Flat type

④ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电橡胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶 / 灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无氟定吸附衬垫 No-fluoro adsorption countermeasure

* N/S为常规材料，防静电、其他材料为特殊材料，起订量 1000G。
* N/S is standard material, static-free, other material is special material, starting order quantity: 1000G.

⑤ 安装连接 Installation connection

代号 Code	AS系列1件规格 (AS series 1 piece specification)	HS系列1件规格 (HS series 1 piece specification)	HS系列2件规格 (HS series 2 piece specification)
B02	●	-	-
B035	●	-	-
B04	●	-	-
B05	●	-	-
B06	-	●	●
B08	-	●	●
B10	-	●	●
B15	-	●	●

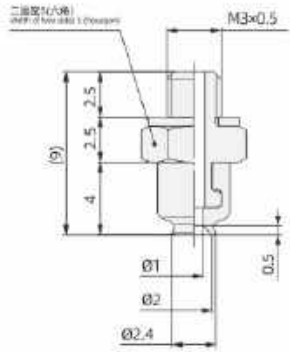
⑥ 安装型号 Installation model

型号 Model	平盘型号 Sucker model	接头型号 Connector model
B-ZP2-TB02MU□-A3	BZ-P2-B02MU□	DY10048
B-ZP2-TB035MU□-A3	B-ZP2-B035MU□	DY10048
B-ZP2-TB04MU□-A3	B-ZP2-B04MU□	DY10048
B-ZP2-TB05MU□-A3	B-ZP2-B05MU□	DY10048
B-ZP2-TB06MU□-H5	B-ZP2-B06MU□	T11-M5M
B-ZP2-TB08MU□-H5	B-ZP2-B08MU□	T11-M5M
B-ZP2-TB10MU□-H5	B-ZP2-B10MU□	T11-M5M
B-ZP2-TB15MU□-H5	B-ZP2-B15MU□	T11-M5M
B-ZP2-TB06MU□-B5	B-ZP2-B06MU□	T11-M5F
B-ZP2-TB08MU□-B5	B-ZP2-B08MU□	T11-M5F
B-ZP2-TB10MU□-B5	B-ZP2-B10MU□	T11-M5F
B-ZP2-TB15MU□-B5	B-ZP2-B15MU□	T11-M5F

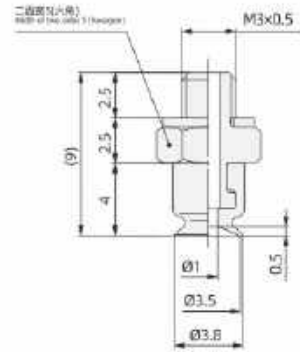
注) 表中：●表示适用材料。 Head in the table: ● The material of suction cup is indicated.

尺寸图表 Dimensional chart

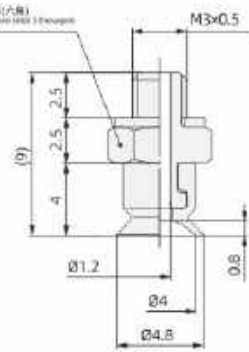
B-ZP2-TB02MU□-A3



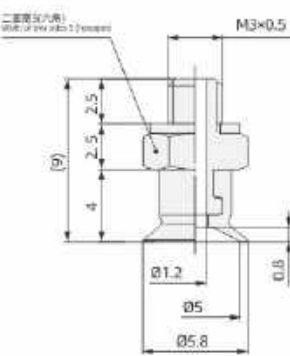
B-ZP2-TB035MU□-A3



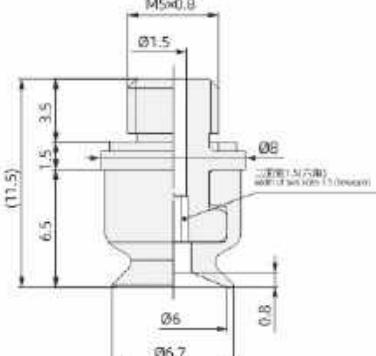
B-ZP2-TB04MU□-A3



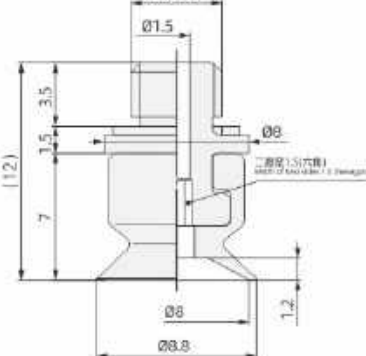
B-ZP2-TB05MU□-A3



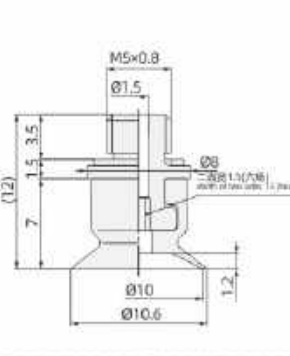
B-ZP2-TB06MU□-H5



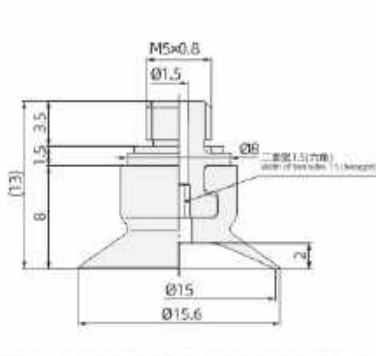
B-ZP2-TB08MU□-H5



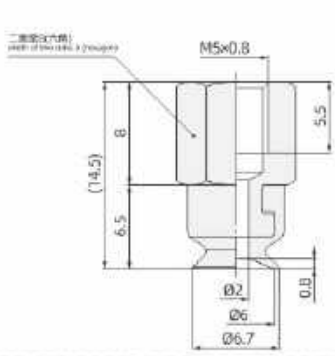
B-ZP2-TB10MU□-H5



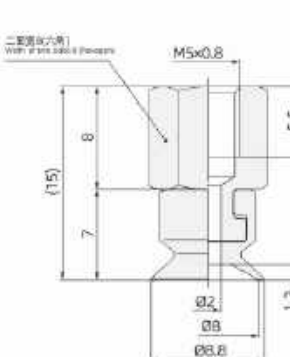
B-ZP2-TB15MU□-H5



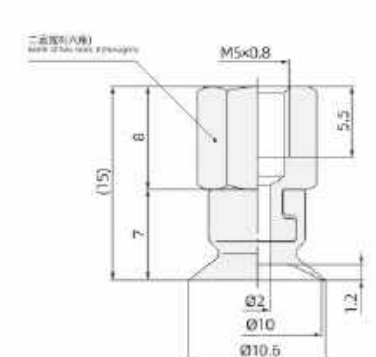
B-ZP2-TB06MU□-B5



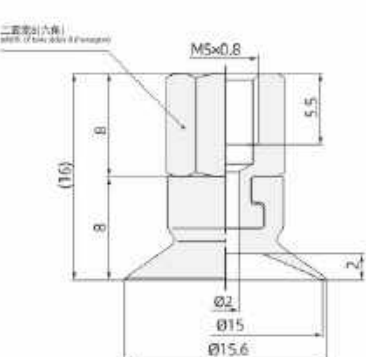
B-ZP2-TB08MU□-B5



B-ZP2-TB10MU□-B5



B-ZP2-TB15MU□-B5



B-ZP2-AN series

Ø0.8, Ø1.1

Nozzle suction cup-Sucker unit / with connector

AN(喷嘴型 Nozzle type)

喷嘴吸盘-吸盘单体

• 用于IC芯片等的小型零件的吸着。
• It's used for IC parts.



喷嘴吸盘-带连接器



型号表示方式(吸盘单体) Model representation (Suction cup monomer)

B-ZP2 - 08 AN N

① 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
08	Ø0.8
11	Ø1.1

② 吸盘形状 Suction cup shape

代码 Code	形状 Shape
AN	喷嘴型 Nozzle type

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NL	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟橡胶 Fluoro rubber
LH	防静电吸盘 防静电吸盘 防静电吸盘 Anti-static suction countermeasure

* N/S为常用材料, 其余材料为特殊材料, 起订量: 100pcs.
* FS为防静电材料, 防静电材料为特殊材料, 起订量: 100pcs.
* LH为防静电材料, 防静电材料为特殊材料, 起订量: 100pcs.

型号表示方式(带连接器) Model representation (With connector)

B-ZP2 - T B08 A N - A5

① 真空引出方向 Vacuum suction direction

代码 Code	方向 Direction
T	SA Vertical

② 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
08	Ø0.8
11	Ø1.1

③ 吸盘形状 Suction cup shape

代码 Code	形状 Shape
AN	喷嘴型 Nozzle type

④ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟橡胶 Fluoro rubber
LH	防静电吸盘 防静电吸盘 防静电吸盘 Anti-static suction countermeasure

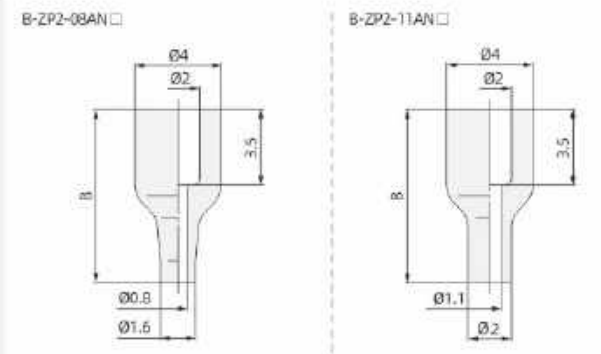
* N/S为常用材料, 其余材料为特殊材料, 起订量: 100pcs.
* FS为防静电材料, 防静电材料为特殊材料, 起订量: 100pcs.
* LH为防静电材料, 防静电材料为特殊材料, 起订量: 100pcs.

⑤ 安装连接 Fixation connector

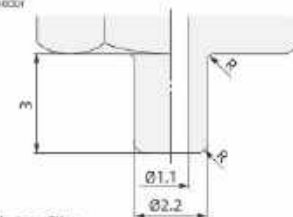
型号 Model	吸盘直径 Suction cup diameter	连接部 Fixation connector
B-ZP2-TB08AN□-A5	B-ZP2-08AN□	T62-M5M
B-ZP2-TB11AN□-A5	B-ZP2-11AN□	T62-M5M

注: 表中: 表示常用材料, Note in the table: □ Material of suction cup is indicated.

尺寸图表(吸盘单体) Dimensional chart (Suction cup monomer)

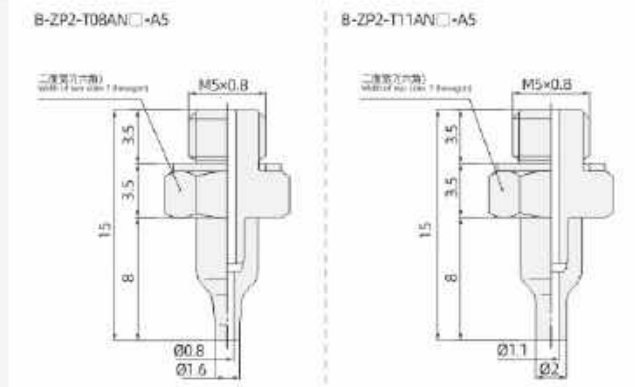


连接器安装部尺寸
Dimensions of connector mounting part
客户安装制作连接器的场合, 请参考下记尺寸。
Please refer to the size below for the occasions where the connector is enabled and manufactured by customer.



注) R部制作成倒圆角, Note) R part is made into fillet.

尺寸图表(带连接器) Dimensional chart (With connector)



B-ZP2-MT series

Ø10, Ø15, Ø20, Ø25, Ø30

Flat sucker Suction cup - Suction cup monomer

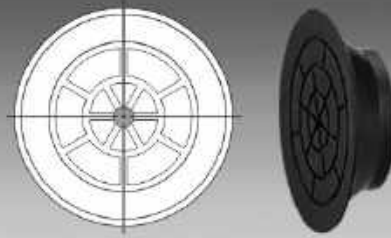
MT(薄型带沟 Thin groove)

扁平型吸盘-吸盘单体

- 吸着面带沟
- 用于薄片、薄膜等的吸着。
- 吸着时可抑制工件平面的变形
- Sulcus with suction
- It is used for the absorption of thin film.
- The deformation of the workpiece plane can be restrained during suction.



注1) 不適用於平面吸着工件的固定。
 注2) 增加吸力時，不可加壓至破裂，使用時請確認。
 Note 1) Not applicable to the fixing of curved workpieces.
 Note 2) Working may occur according to the thickness of the sheet. Please confirm before use.



型号表示方式 Model representation

B-ZP2 - B10 MT N

① 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter	吸力范围 Suction force range
B10	Ø10	●
B15	Ø15	●
B20	Ø20	●
B25	Ø25	●
B30	Ø30	●

※ 吸力规格：工件吸着性增强。Suction Specifications: the separation of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

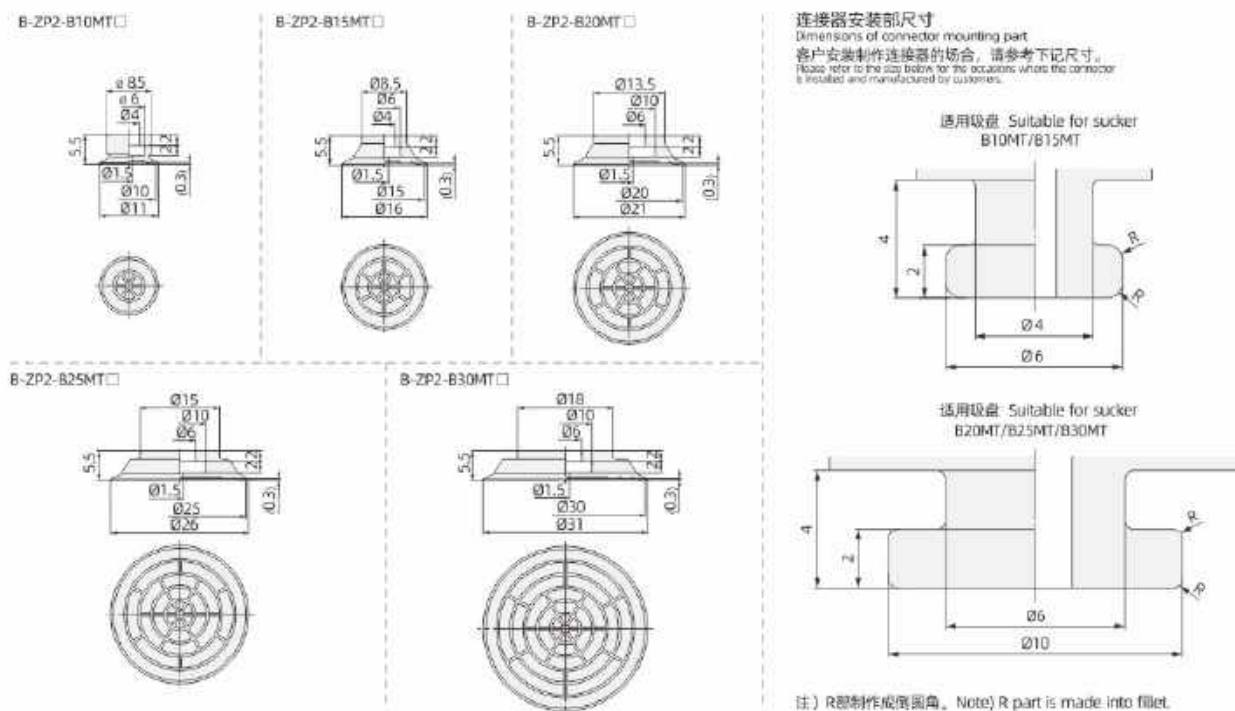
代码 Code	形状 Shape
MT	薄型带沟 Thin groove

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	防静电硅胶防静电橡胶 Fluoro silicone rubber
LH	无氟防静电硅胶 No fluorine antistatic silicone

* N/S为常用材质，防静电、防静电防静电材料，起订量 100pcs。
 * N/S is standard material, antistatic, other material is special material, starting order quantity: 100pcs.

尺寸图表 Dimensional chart



Ø10, Ø15, Ø20, Ø25, Ø30

Flat sucker Suction cup - With connector

MT(薄型带沟 Thin groove)

扁平型吸盘-带连接器



型号表示方式 Model representation

B-ZP2 - T B10 MT N - H5

① 真空引出方向 Vacuum extraction direction

代码 Code	方向 Direction
T	垂直 Vertical

② 吸盘形状 Suction cup shape

代码 Code	形状 Shape
MT	薄型带沟 Thin groove

③ 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter	吸力范围 Suction force range
B10	Ø10	●
B15	Ø15	●
B20	Ø20	●
B25	Ø25	●
B30	Ø30	●

④ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	防静电硅胶防静电橡胶 Fluoro silicone rubber
LH	无氟防静电硅胶 No fluorine antistatic silicone

* N/S为常用材质，防静电、防静电防静电材料，起订量 100pcs。
 * N/S is standard material, antistatic, other material is special material, starting order quantity: 100pcs.

⑤ 安装连接 Installation connection

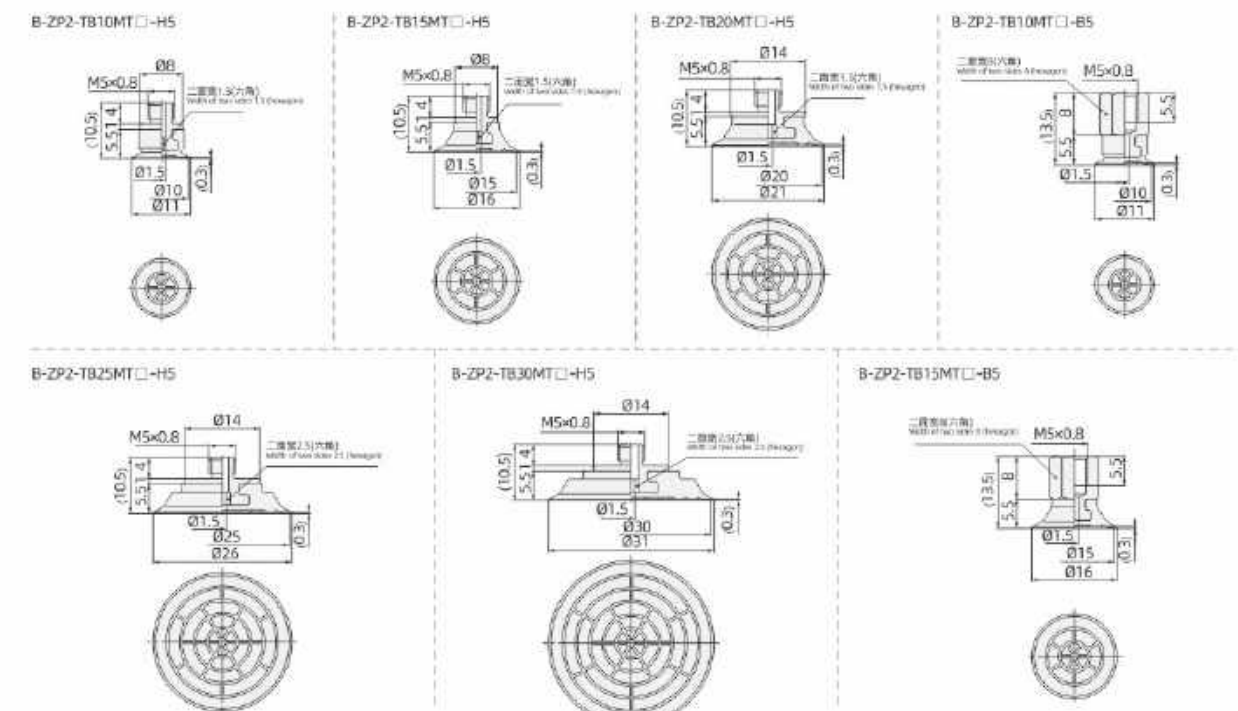
代码 Code	外部直径 External thread	内部直径 Internal thread
B10	●	●
B15	●	●
B20	●	-
B25	●	-
B30	●	-

⑥ 安装型号 Installation model

型号 Model	吸盘型号 Sucker model	连接器型号 Connector model
B-ZP2-TB10MT□-H5	B-ZP2-B10MT□	T11-M5M
B-ZP2-TB15MT□-H5	B-ZP2-B15MT□	T11-M5M
B-ZP2-TB20MT□-H5	B-ZP2-B20MT□	T56-M5M
B-ZP2-TB25MT□-H5	B-ZP2-B25MT□	T56-M5M
B-ZP2-TB30MT□-H5	B-ZP2-B30MT□	T56-M5M
B-ZP2-TB10MT□-B5	B-ZP2-B10MT□	T11-M5F
B-ZP2-TB15MT□-B5	B-ZP2-B15MT□	T11-M5F

注) 表中□为吸盘材质。Note) In the table □, the material of suction cup is indicated.

尺寸图表 Dimensional chart



B-ZP2-MB series

Ø4, Ø6, Ø8, Ø10, Ø15, Ø20

Organ type cup - Suction cup monomer

MB(风琴型 Organ type cup)

风琴型吸盘-吸盘单体

- 没有安装缓冲器的空间(弹簧方式)
- 吸着面倾斜的场合。
- No space for buffer installation (spring mode)
- Where the suction surface is inclined.



型号表示方式 Model representation

B-ZP2 - B04 MB N

① 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter	真空度 Vacuum
B04	Ø4	●
B06	Ø6	●
B08	Ø8	●
B10	Ø10	●
B15	Ø15	●
B20	Ø20	●

※ 吸盘规格：工件表面性加强，Sanding specifications: the separation of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

代号 Code	形状 Shape
MB	风琴型 Organ type cup

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟橡胶/黑 Fluoro rubber / black
LH	无氟防静电硅胶 No fluorine antistatic silicone

* N/S为常用材料，供货充足，其他材料为特殊材料，起订量100PCS。
* N/S is standard material, stocking stock, other material is special material, starting order quantity: 100PCS.

尺寸图表 Dimensional chart

连接器安装部尺寸
Dimensions of connector mounting part
客户安装制作连接器的场合，请参考下記尺寸。
Please refer to the size below for the occasions when the connector is installed and manufactured by customers.

通用吸盘 Suitable for sucker B04M B

通用吸盘 Suitable for sucker B06MB/B08M B

通用吸盘 Suitable for sucker B10MB/B15M B

通用吸盘 Suitable for sucker B20M B

注) R部制作成倒圆角。 Note) R part is made into fillet.

Ø4, Ø6, Ø8, Ø10, Ø15, Ø20

Organ type cup - With connector

MB(风琴型 Organ type cup)

风琴型吸盘-带连接器



型号表示方式 Model representation

B-ZP2 - T B04 MB N - A3

① 真空引出方向 Vacuum extraction direction

代号 Code	方向 Direction
T	垂直 Vertical

② 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter	真空度 Vacuum
B04	Ø4	●
B06	Ø6	●
B08	Ø8	●
B10	Ø10	●
B15	Ø15	●
B20	Ø20	●

③ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
MB	风琴型 Organ type cup

④ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟橡胶/黑 Fluoro rubber / black
LH	无氟防静电硅胶 No fluorine antistatic silicone

* N/S为常用材料，供货充足，其他材料为特殊材料，起订量100PCS。
* N/S is standard material, stocking stock, other material is special material, starting order quantity: 100PCS.

⑤ 安装连接 Installation connection

代号 Code	安装方式 Installation	是否适用 Is applicable	是否适用 Is applicable
B04	●	●	●
B06	●	●	●
B08	●	●	●
B10	●	●	●
B15	●	●	●
B20	●	●	●

⑥ 安装型号 Installation model

型号 Model	吸盘型号 Sucker model	连接器型号 Connector model
B-ZP2-TB04MB□-A3	B-ZP2-B04MB□	DY1004B
B-ZP2-TB06MB□-H5	B-ZP2-B06MB□	T11-M5M
B-ZP2-TB08MB□-H5	B-ZP2-B08MB□	T11-M5M
B-ZP2-TB10MB□-H5	B-ZP2-B10MB□	T9-M5M
B-ZP2-TB15MB□-H5	B-ZP2-B15MB□	T9-M5M
B-ZP2-TB20MB□-H5	B-ZP2-B20MB□	T8-M5M
B-ZP2-TB06MB□-B5	B-ZP2-B06MB□	T11-M5F
B-ZP2-TB08MB□-B5	B-ZP2-B08MB□	T11-M5F

※ 表中□为可选或省略，(Refer to the table.) The Material of suction cup is included.

尺寸图表 Dimensional chart

连接器安装部尺寸
Dimensions of connector mounting part
客户安装制作连接器的场合，请参考下記尺寸。
Please refer to the size below for the occasions when the connector is installed and manufactured by customers.

通用吸盘 Suitable for sucker B04M B

通用吸盘 Suitable for sucker B06MB/B08M B

通用吸盘 Suitable for sucker B10MB/B15M B

通用吸盘 Suitable for sucker B20M B

注) R部制作成倒圆角。 Note) R part is made into fillet.

B-ZP2-EU series

Ø2, Ø4, Ø6, Ø8, Ø10, Ø15

Flat suction cup - Suction cup monomer

EU(扁平型 Flat suction cup)

扁平型吸盘-吸盘单体



型号表示方式 Model representation

B-ZP2 - B02 EU N

① 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
B02	Ø02
B04	Ø04
B06	Ø06
B08	Ø08
B15	Ø15

* 喷沙规格: 工件表面有加强, sandblasting specifications, the separation of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

代码 Code	形状 Shape
EU	扁平型 Flat

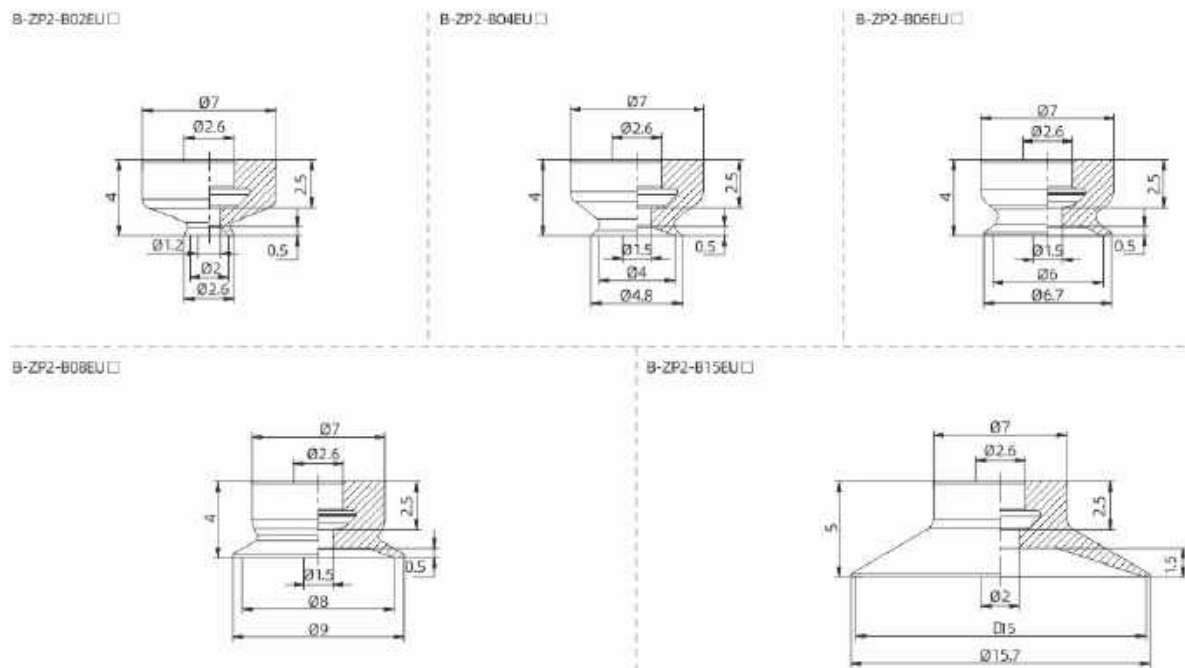
③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Antistatic silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无吸附回弹效果 No back adsorption countermeasure

* N/S为特殊材质, 标准供货, 其他特殊材料, 起订量: 100PCS.

* N/S为特殊材质, 标准供货, 其他特殊材料, 起订量: 100PCS.

尺寸图表 Dimensional chart



Ø2, Ø4, Ø6, Ø8, Ø10, Ø15

Flat suction cup - Suction cup monomer

EU(扁平型 Flat suction cup)

扁平型吸盘-吸盘单体



型号表示方式 Model representation

B-ZP2 - T B02 EU N - H5

① 真空引出方向 Vacuum extraction direction

代号 Code	方向 Direction
T	垂直 Vertical

② 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
B02	Ø02
B04	Ø04
B06	Ø06
B08	Ø08
B15	Ø15

* 喷沙规格: 工件表面有加强, sandblasting specifications, the separation of the workpiece is strengthened.

③ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
EU	扁平型 Flat

④ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Antistatic silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无吸附回弹效果 No back adsorption countermeasure

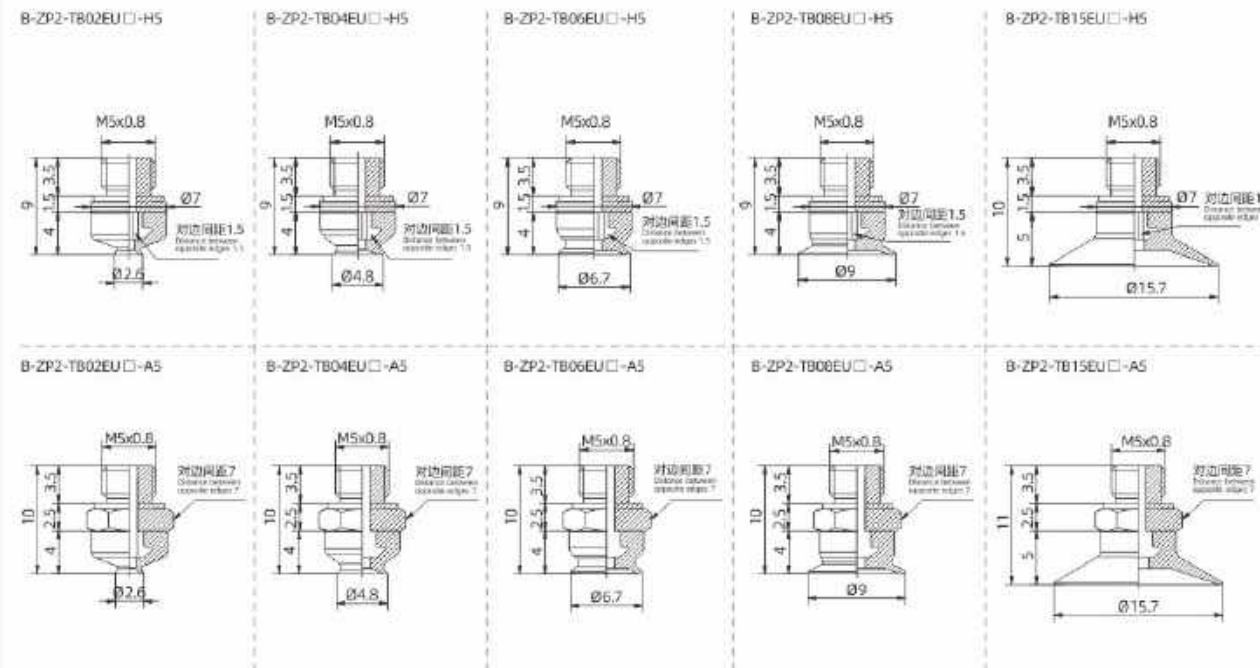
* N/S为特殊材质, 标准供货, 其他特殊材料, 起订量: 100PCS.

* N/S为特殊材质, 标准供货, 其他特殊材料, 起订量: 100PCS.

⑤ 安装连接 Installation connection

代号 Code	螺纹 Thread
H5	M5x0.8(外螺纹 External thread)
A5	M5x0.8(内螺纹 Internal thread)

尺寸图表 Dimensional chart



B-ZP2-UT series

Ø5, Ø6, Ø11, Ø14, Ø18, Ø20

Flat suction cup - Suction cup monomer

UT(扁平型 Flat suction cup)

扁平型吸盘-吸盘单体



型号表示方式 Model representation

B-ZP2 - B05 UT N

① 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
B05	Ø05
B06	Ø06
B11	Ø11
B14	Ø14
B18	Ø18
B20	Ø20

* 部分规格：工件或柔性加强，Sanctifying specifications: the separation of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

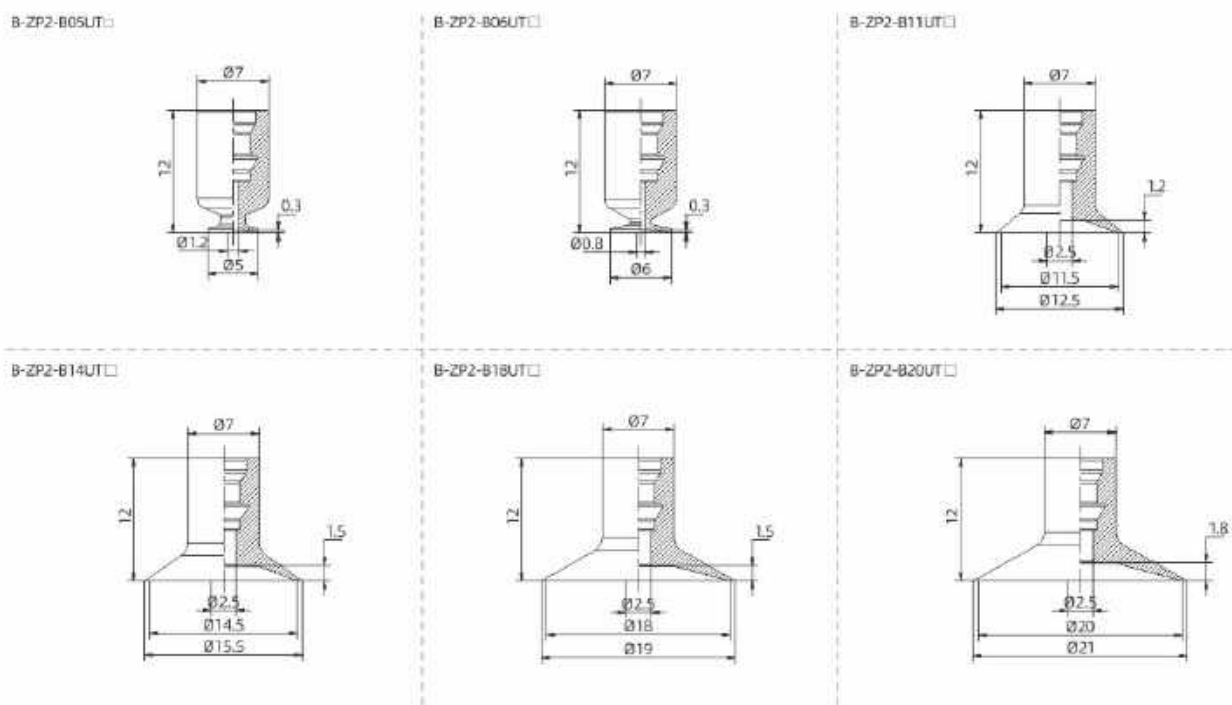
代码 Code	形状 Shape
UT	扁平型 Flat

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Antistatic silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无吸附密封衬套 No trace adsorption countermeasures

* N/S为常用材质，其余材质为特殊材质，起订量：100PCS。
* N/S is standard material, standing stock, other material is special material, starting order quantity: 100PCS.

尺寸图表 Dimensional chart



Ø5, Ø6, Ø11, Ø14, Ø18, Ø20

Flat suction cup - Suction cup monomer

UT(扁平型 Flat suction cup)

扁平型吸盘-吸盘单体



型号表示方式 Model representation

B-ZP2 - T B05 UT N - A5

① 真空引出方向 Vacuum extraction direction

代号 Code	方向 Direction
T	垂直 Vertical

② 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
B05	Ø05
B06	Ø06
B11	Ø11
B14	Ø14
B18	Ø18
B20	Ø20

* 部分规格：工件或柔性加强，Sanctifying specifications: the separation of the workpiece is strengthened.

③ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
UT	扁平型 Flat type

④ 吸盘材质 Suction cup Material

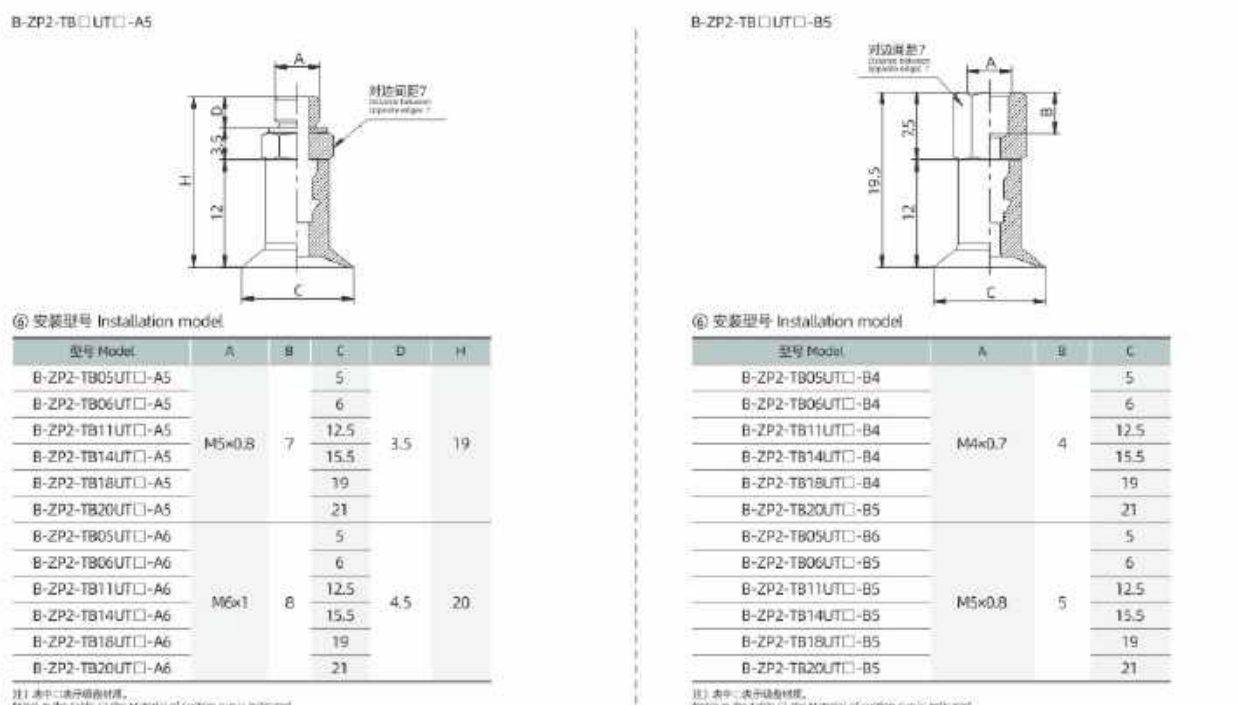
代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Antistatic silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无吸附密封衬套 No trace adsorption countermeasures

* N/S为常用材质，其余材质为特殊材质，起订量：100PCS。
* N/S is standard material, standing stock, other material is special material, starting order quantity: 100PCS.

⑤ 安装连接 Installation connection

代号 Code	螺纹 Thread
A5	M5x0.8(外螺纹 External thread)
A6	M6x1(外螺纹 External thread)
B4	M6x0.7(内螺纹 Internal thread)
B5	M5x0.8(内螺纹 Internal thread)

尺寸图表 Dimensional chart



B-ZP2-ZJ series

Ø2, Ø4, Ø5, Ø6

Organ type cup - Suction cup monomer

ZJ(风琴型 Organ type cup)

风琴型吸盘-吸盘单体



型号表示方式 Model representation

B-ZP2 - B02 ZJ N

① 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
B02	Ø02
B04	Ø04
B05	Ø05
B06	Ø06

※ 吸盘规格：工件抓握性加强。
Suctioning Specifications: the reinforcement of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

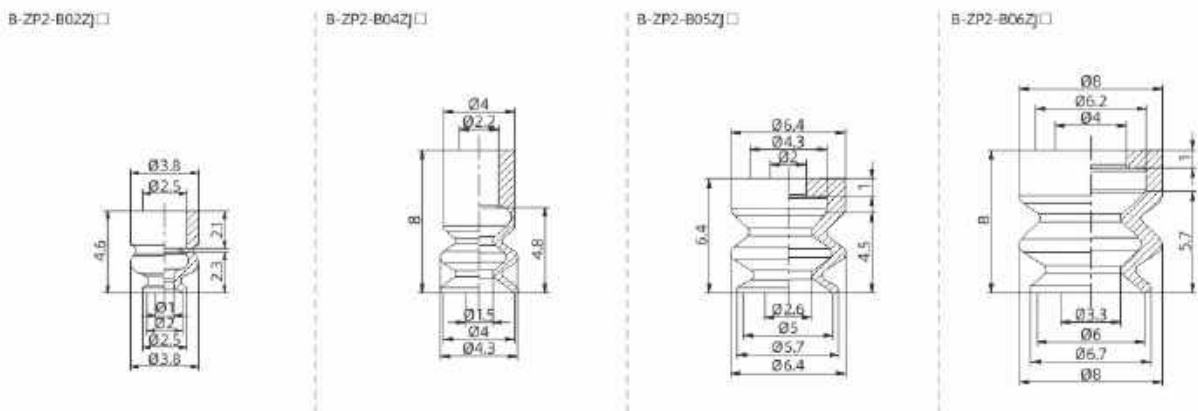
代码 Code	形状 Shape
ZJ	风琴型 Organ type

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Antistatic silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无吸附残留对策 No trace adsorption countermeasure

* N/S/S/GS/NE/F/FS 为特殊材质，请备注，其他材质为特殊材质，请备注。
* N/S/S/GS/NE/F/FS is a special material, please specify, other material is special material, please specify.

尺寸图表 Dimensional chart



Ø2, Ø4, Ø5, Ø6

Organ type cup - With connector

ZJ(风琴型 Organ type cup)

风琴型吸盘-带连接器



型号表示方式 Model representation

B-ZP2 - T B02 ZJ N - A3

① 真空引出方向 Vacuum extraction direction

代号 Code	真空引出方向 Vacuum extraction direction
T	垂直 Vertical

② 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
B02	Ø02
B04	Ø04
B05	Ø05
B06	Ø06

※ 吸盘规格：工件抓握性加强。
Suctioning Specifications: the reinforcement of the workpiece is strengthened.

③ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
ZJ	风琴型 Organ type

④ 吸盘材质 Suction cup Material

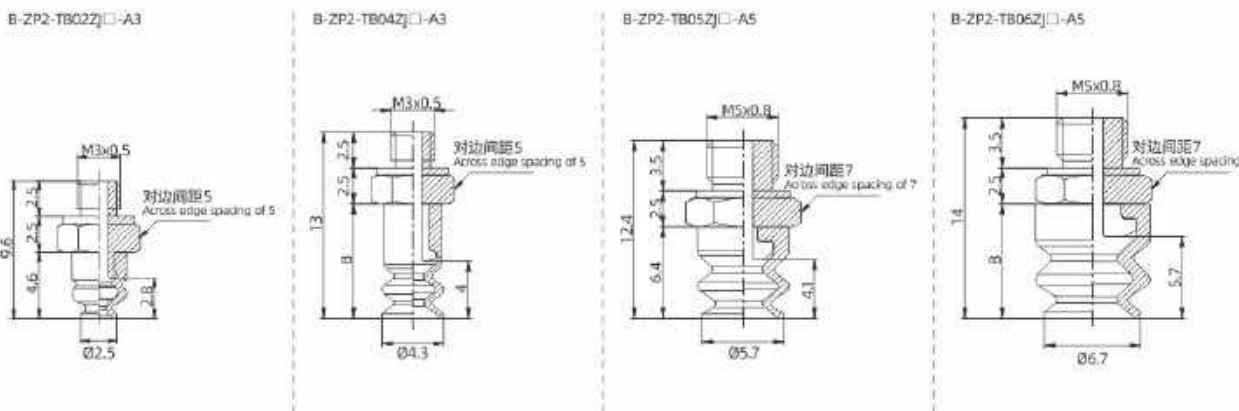
代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Antistatic silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluorosilicone rubber
LH	无吸附残留对策 No trace adsorption countermeasure

* N/S/S/GS/NE/F/FS 为特殊材质，请备注，其他材质为特殊材质，请备注。
* N/S/S/GS/NE/F/FS is a special material, please specify, other material is special material, please specify.

⑤ 安装连接 Installation connection

代号 Code	螺纹 Thread
A3	M3x0.5(外螺纹 External thread)
A5	M3x0.5(内螺纹 External thread)

尺寸图表 Dimensional chart



B-ZP3-U/UM/B series

Ø1.5, Ø2, Ø3.5, Ø4, Ø6, Ø8, Ø10, Ø13, Ø16

Small suction cup - Suction cup monomer

小型吸盘-吸盘单体



U(平型 Flat)
UM(带沟平型 Flat with groove)
B(风琴型 Organ)

型号表示方式 Model representation

B-ZP3 - 015 U N

① 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter
015	Ø1.5
02	Ø2
035	Ø3.5
04	Ø4
06	Ø6
08	Ø8
10	Ø10
13	Ø13
16	Ø16

* 设计规格: 工作精度性较差, 建议按图标注, 否则无法保证精度。
* Design specification: Work accuracy is poor, it is recommended to refer to the drawing for annotation, otherwise the accuracy cannot be guaranteed.

② 吸盘形状 Suction cup shape

代码 Code	015	02	035	04	06	08	10	13	16
U(平型 Flat)	●	●	●	●	●	●	●	●	●
UM(带沟平型 Flat with groove)	-	-	-	●	●	●	●	●	●
B(风琴型 Organ)	-	-	-	-	●	●	●	●	●

* 销售单位: Ø1.5-Ø8:10个 Ø10-Ø16:5个
* Sales unit: Ø1.5-Ø8:10individual Ø10-Ø16:5individual

③ 吸盘材质 Suction cup Material

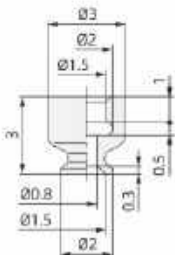
代号 Sign	材料 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/胶 Fluoro rubber / gasket
FS	氟硅橡胶 Fluorosilicone rubber
LH	无卤素阻燃材料 Halogen free flame retardant material

* 如无特殊材料, 请备注, 其他材料为特殊材料, 起订量: 1000个。
* If no special material, please specify, other materials are special materials, starting order quantity: 1000pcs.

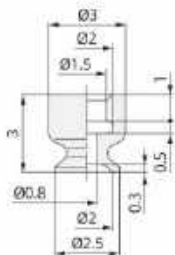
尺寸图表 Dimensional chart

平型 Flat

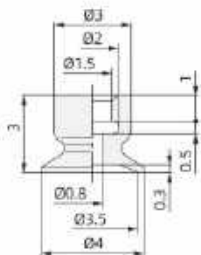
B-ZP3-015U □ [质量 Quality: 0.1g]



B-ZP3-02U □ [质量 Quality: 0.1g]

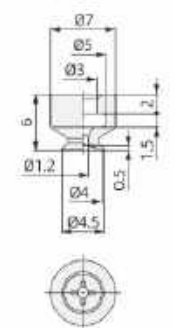


B-ZP3-035U □ [质量 Quality: 0.1g]

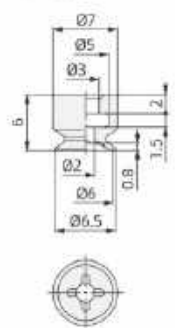


带沟平型 Flat with groove

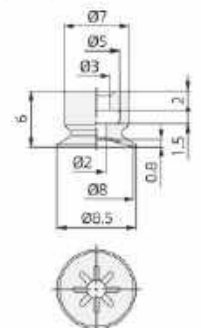
B-ZP3-04UM □ [质量 Quality: 0.3g]



B-ZP3-06UM □ [质量 Quality: 0.3g]



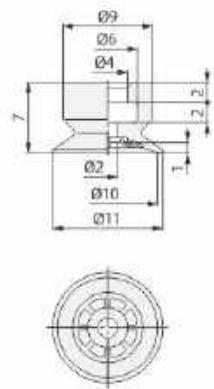
B-ZP3-08UM □ [质量 Quality: 0.3g]



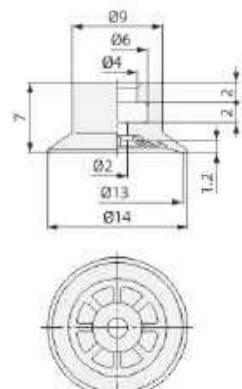
尺寸图表 Dimensional chart

带沟平型 Flat with groove

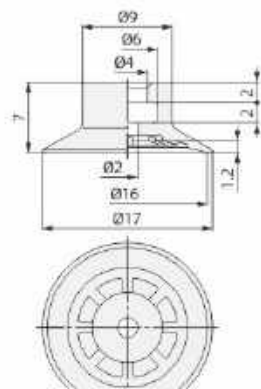
B-ZP3-10UM □ [质量 Quality: 0.6g]



B-ZP3-13UM □ [质量 Quality: 0.7g]

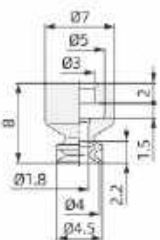


B-ZP3-16UM □ [质量 Quality: 0.8g]

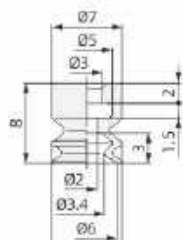


风琴型 Organ

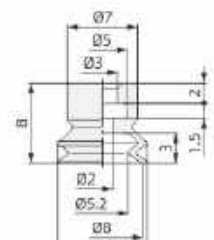
B-ZP3-04B □ [质量 Quality: 0.3g]



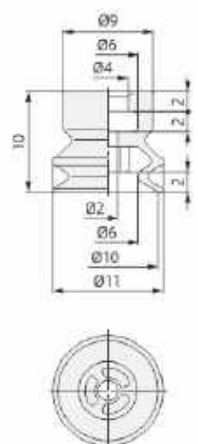
B-ZP3-06B □ [质量 Quality: 0.3g]



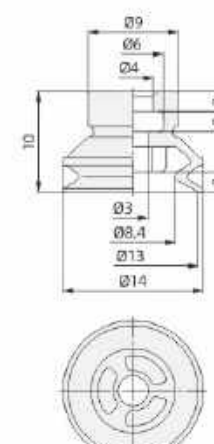
B-ZP3-08B □ [质量 Quality: 0.4g]



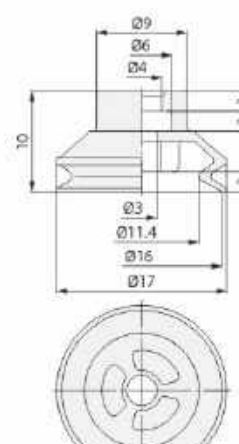
B-ZP3-10B □ [质量 Quality: 0.8g]



B-ZP3-13B □ [质量 Quality: 1.0g]



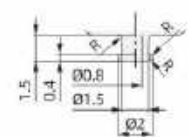
B-ZP3-16B □ [质量 Quality: 1.1g]



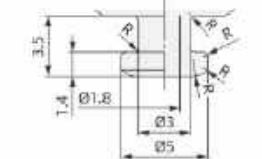
连接器安装部尺寸
Dimensions of connector mounting part

客户安装制作连接器的场合, 请参考下记尺寸。
Please refer to the size below for the occasion when the connector is installed and manufactured by customer.

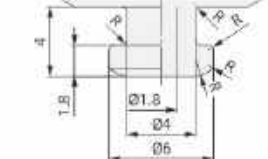
适合吸盘 Suitable for sucker
015U/02U/035U



适合吸盘 Suitable for sucker
04UM/06UM/08UM/04B/06B/08B



适合吸盘 Suitable for sucker
10UM/13UM/16UM/10B/13B/16B



注) R部制作成倒圆角。 Note) R part is made into fillet.

B-ZP3-U/UM/B series

Ø1.5, Ø2, Ø3.5, Ø4, Ø6, Ø8, Ø10, Ø13, Ø16

Small suction cup - Longitudinal vacuum extraction type / with connector

小型吸盘-纵向真空引出型/带连接器

U(平型 Flat)
UM(带沟平型 Flat with groove)
B(凤琴型 Organ)



型号表示方式 Model representation

B-ZP3-T 015 U N-A3

<p>① 真空引出方向 Vacuum extraction direction</p> <p>代码 Code: T 纵向 Vertical</p>	<p>② 吸盘直径 Suction cup diameter</p> <p>代码 Code: 015, 02, 035, 04, 06, 08, 10, 13, 16</p> <p>直径 Diameter: Ø1.5, Ø2, Ø3.5, Ø4, Ø6, Ø8, Ø10, Ø13, Ø16</p>	<p>③ 吸盘形状 Suction cup shape</p> <p>代码 Code: 015, 02, 035, 04, 06, 08, 10, 13, 16</p> <p>U(平型 Flat), UM(带沟平型 Flat with groove), B(凤琴型 Organ)</p>	<p>④ 安装螺纹直径 Installation thread diameter</p> <p>代码 Code: A3, A5, B3, B5</p> <p>螺纹 Thread: M3x0.5, M5x0.8, M3x0.5, M5x0.8</p>
---------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

※ 销售单位: Ø1.5-Ø8:10个 Ø10-Ø16:5个
Sales unit: Ø1.5-Ø8:10 individual Ø10-Ø16:5 individual

※ 吸盘材质: 工作温度: 0~100℃
Suction cup material: Operating temperature: 0~100°C

代号 Sign	材料 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶 / 胶 Fluoro rubber / gilly
FS	氟硅橡胶 Fluoro silicone rubber
LH	无粘接材料对等 No-stick adhesion counter-material

* N/S为特殊材料, 质量证明, 材料标准为材料证明, 数量: 10000。
* N/S is special material, quality certificate, other material is special material, please order quality 10000.

更换型号吸盘直径: Ø1.5-Ø3.5 Change model suction cup diameter: Ø1.5-Ø3.5

型号 Model	吸盘型号 Sucker model	接头型号 Connector model
B-ZP3-T(015/02/035)U□-A3	B-ZP3-T(015/02/035)U□-B3	B-ZP3A-T1-A3
B-ZP3-T(015/02/035)U□-B3		B-ZP3A-T1-B3

注1) 表中□表示吸盘材质, 注2) 表中□表示真空引出口, 注3) 接头型号行连接, 型式代码见注(1) U: M-SAU-2, UM: M-SAU-4, B: M-SAU-6, GS: M-SAU-8, NE: M-SAU-10, F: M-SAU-12, FS: M-SAU-14, LH: M-SAU-16
Note 1) □ in the table indicates the material of suction cup, Note 2) □ in the table, denotes vacuum outlet, Note 3) the connector should be provided separately, Mark at the end of type (1) U: M-SAU-2, UM: M-SAU-4, B: M-SAU-6, GS: M-SAU-8, NE: M-SAU-10, F: M-SAU-12, FS: M-SAU-14, LH: M-SAU-16

更换型号吸盘直径: Ø4-Ø8 Change model suction cup diameter: Ø4-Ø8

型号 Model	吸盘型号 Sucker model	接头型号 Connector model
B-ZP3-T(04/06/08)UM□-A5	B-ZP3-T(04/06/08)UM□	B-ZP3A-T2-A5
B-ZP3-T(04/06/08)B□-A5	B-ZP3-T(04/06/08)B□	
B-ZP3-T(04/06/08)UM□-B5	B-ZP3-T(04/06/08)UM□	B-ZP3A-T2-B5
B-ZP3-T(04/06/08)B□-B5	B-ZP3-T(04/06/08)B□	

注1) 表中□表示吸盘材质, 注2) 表中□表示真空引出口, 注3) 接头型号行连接, 型式代码见注(1) U: M-SAU-2, UM: M-SAU-4, B: M-SAU-6, GS: M-SAU-8, NE: M-SAU-10, F: M-SAU-12, FS: M-SAU-14, LH: M-SAU-16
Note 1) □ in the table indicates the material of suction cup, Note 2) □ in the table, denotes vacuum outlet, Note 3) the connector should be provided separately, Mark at the end of type (1) U: M-SAU-2, UM: M-SAU-4, B: M-SAU-6, GS: M-SAU-8, NE: M-SAU-10, F: M-SAU-12, FS: M-SAU-14, LH: M-SAU-16

更换型号吸盘直径: Ø10-Ø16 Change model suction cup diameter: Ø10-Ø16

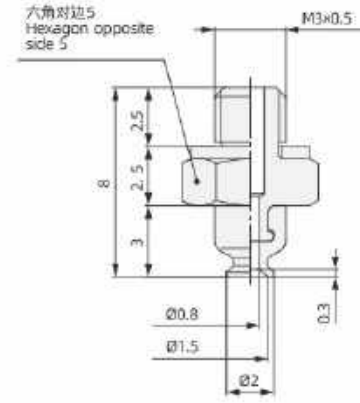
型号 Model	吸盘型号 Sucker model	接头型号 Connector model
B-ZP3-T(10/13/16)UM□-A5	B-ZP3-T(10/13/16)UM□	B-ZP3A-T3-A5
B-ZP3-T(10/13/16)B□-A5	B-ZP3-T(10/13/16)B□	
B-ZP3-T(10/13/16)UM□-B5	B-ZP3-T(10/13/16)UM□	B-ZP3A-T3-B5
B-ZP3-T(10/13/16)B□-B5	B-ZP3-T(10/13/16)B□	

注1) 表中□表示吸盘材质, 注2) 表中□表示真空引出口, 注3) 接头型号行连接, 型式代码见注(1) U: M-SAU-2, UM: M-SAU-4, B: M-SAU-6, GS: M-SAU-8, NE: M-SAU-10, F: M-SAU-12, FS: M-SAU-14, LH: M-SAU-16
Note 1) □ in the table indicates the material of suction cup, Note 2) □ in the table, denotes vacuum outlet, Note 3) the connector should be provided separately, Mark at the end of type (1) U: M-SAU-2, UM: M-SAU-4, B: M-SAU-6, GS: M-SAU-8, NE: M-SAU-10, F: M-SAU-12, FS: M-SAU-14, LH: M-SAU-16

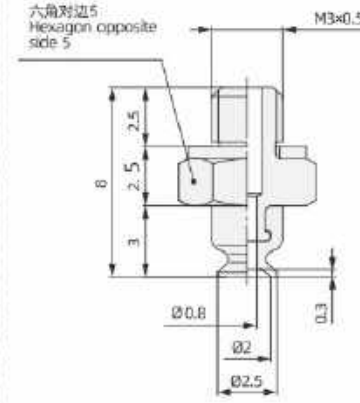
吸盘直径: Ø1.5~Ø3.5 吸盘形状: 平型
Suction cup diameter: Ø1.5~Ø3.5 suction cup shape: Flat type

尺寸图表 Dimensional chart

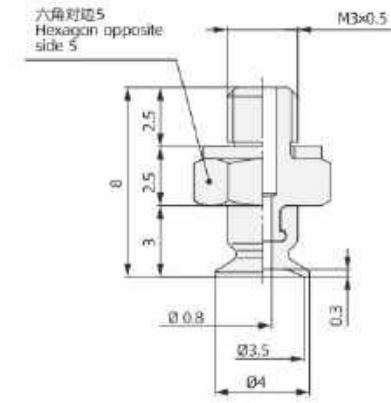
B-ZP3-T015U□-A3
[质量 Quality:0.6g]



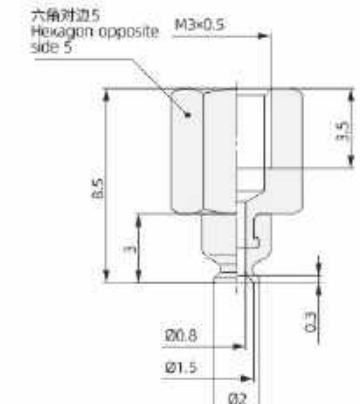
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[质量 Quality:0.6g]



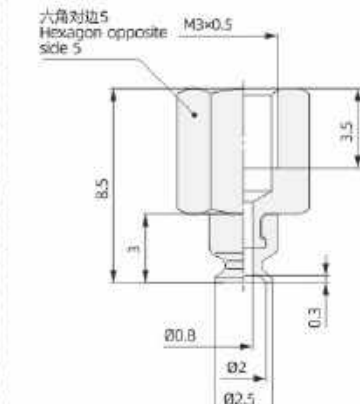
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[质量 Quality:0.6g]



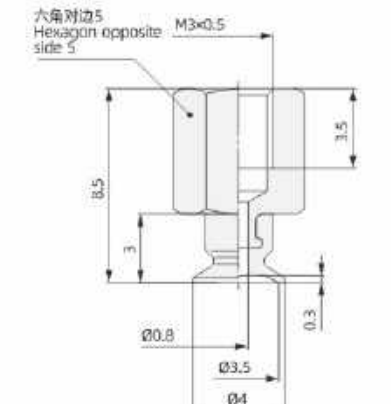
B-ZP3-T015U□-B3
[质量 Quality:0.9g]



B-ZP3-T02U□-B3
[质量 Quality:0.9g]



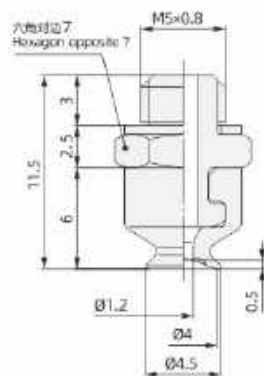
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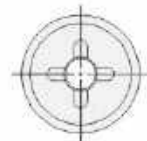
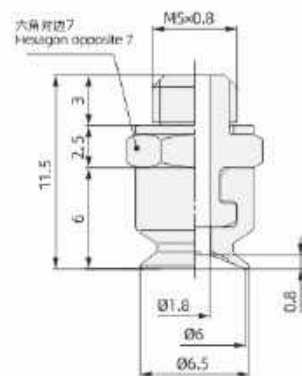
吸盘直径: Ø4~Ø8 吸盘形状: 带沟平型
Suction cup diameter: Ø4~Ø8 suction cup shape: Flat type with groove

尺寸图表 Dimensional chart

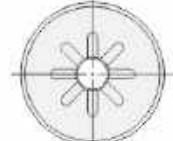
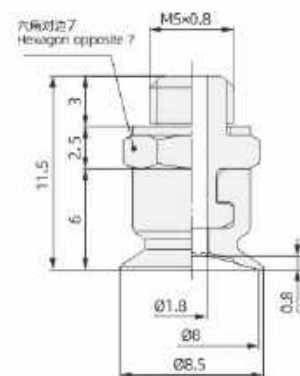
B-ZP3-T04UM□-A5
[质量 Quality:1.7g]



B-ZP3-T06UM□-A5
[质量 Quality:1.7g]



B-ZP3-T08UM□-A5
[质量 Quality:1.7g]



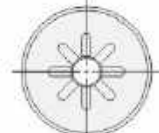
B-ZP3-T04UM□-B5
[质量 Quality:2.3g]



B-ZP3-T06UM□-B5
[质量 Quality:2.3g]



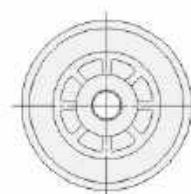
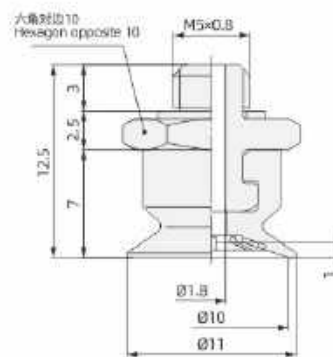
B-ZP3-T08UM□-B5
[质量 Quality:2.3g]



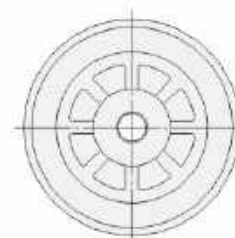
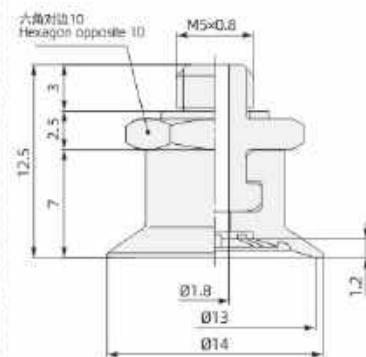
吸盘直径: Ø10~Ø16 吸盘形状: 带沟平型
Suction cup diameter: Ø10~Ø16 suction cup shape: Flat type with groove

尺寸图表 Dimensional chart

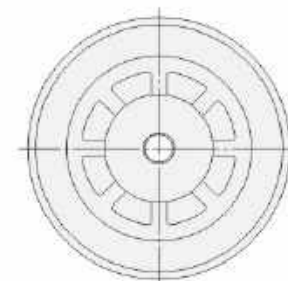
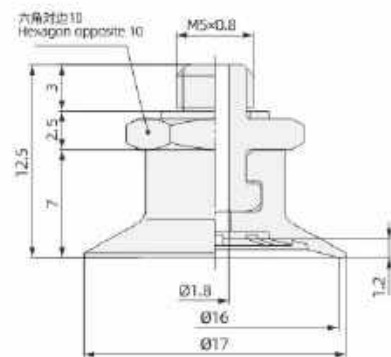
B-ZP3-T10UM□-A5
[质量 Quality:3.0g]



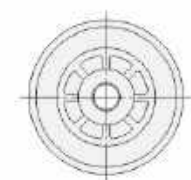
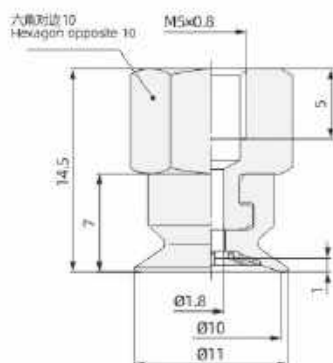
B-ZP3-T13UM□-A5
[质量 Quality:3.1g]



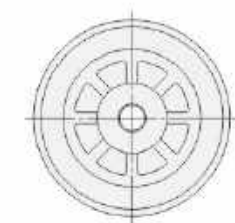
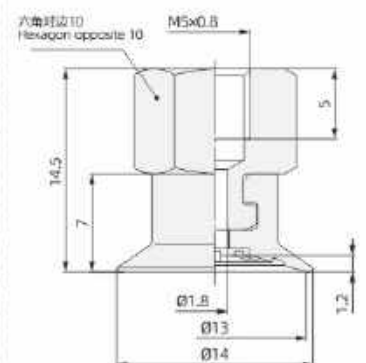
B-ZP3-T16UM□-A5
[质量 Quality:3.2g]



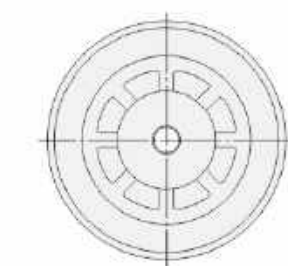
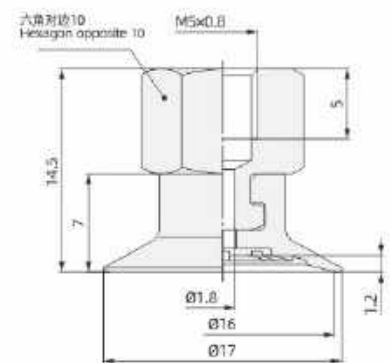
B-ZP3-T10UM□-B5
[质量 Quality:5.7g]



B-ZP3-T13UM□-B5
[质量 Quality:5.8g]

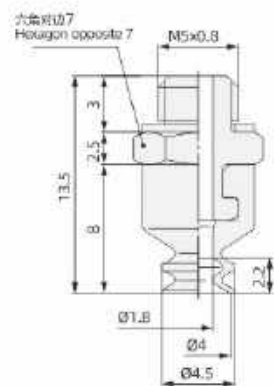


B-ZP3-T16UM□-B5
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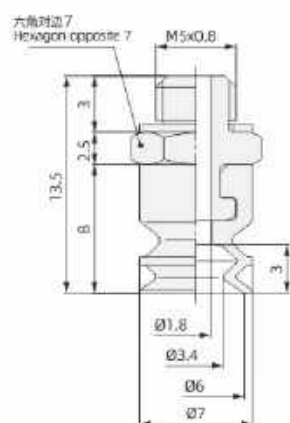


尺寸图表 Dimensional chart

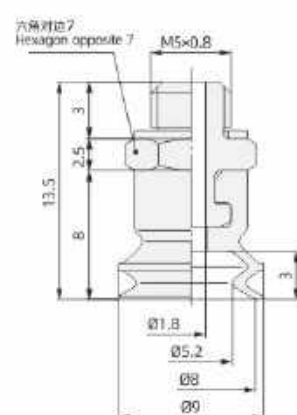
B-ZP3-T04B□-A5
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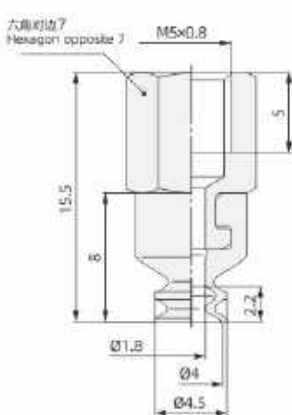
B-ZP3-T06B□-A5
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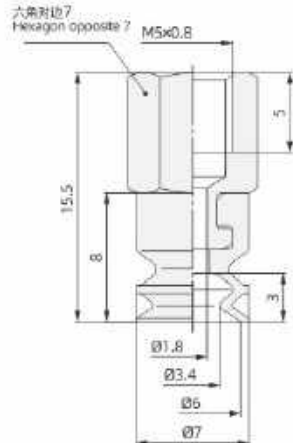
B-ZP3-T08B□-A5
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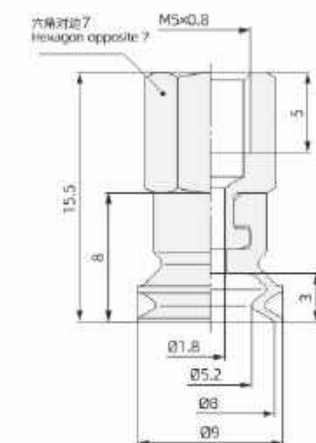
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[质量 Quality:2.3g]



B-ZP3-T06B□-B5
[质量 Quality:2.3g]

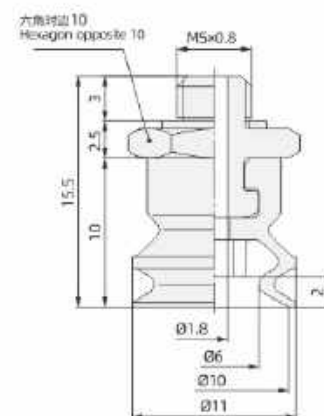


B-ZP3-T08B□-B5
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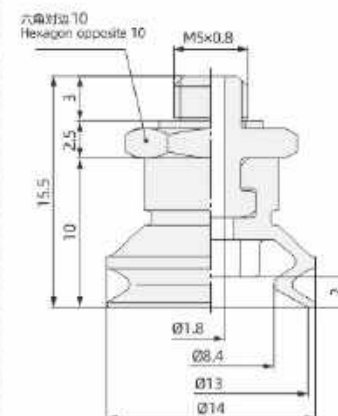


尺寸图表 Dimensional chart

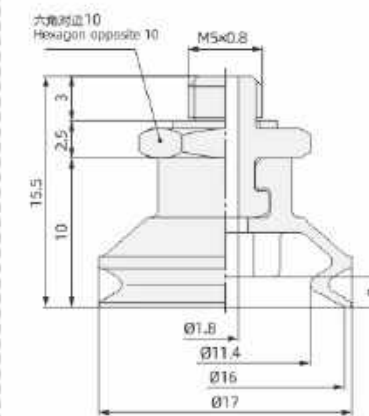
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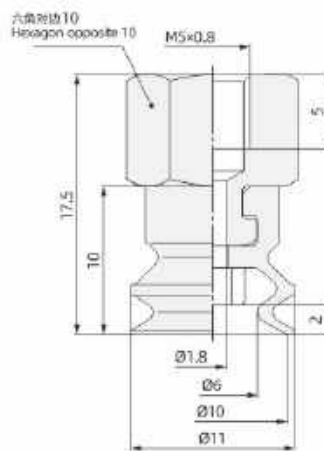
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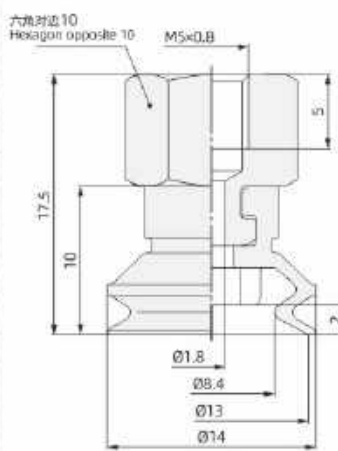
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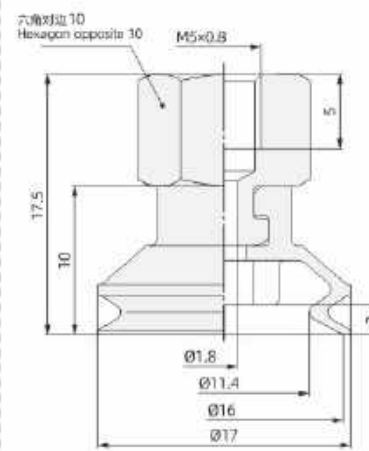
B-ZP3-T10B□-B5
[质量 Quality:5.9g]



B-ZP3-T13B□-B5
[质量 Quality:6.1g]



B-ZP3-T16B□-B5
[质量 Quality:6.2g]



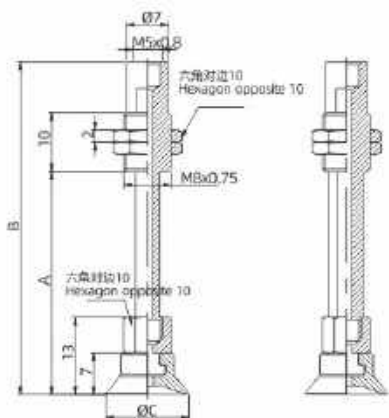
B-ZP3-T/Y series

安装用连接器型号 Connector model for installation

B-ZP3-T-10~16UM

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	15	B-ZP3-T2J15-B5
	20	B-ZP3-T2J20-B5
可回转 Anti rotation	15	B-ZP3-T2K15-B5
	20	B-ZP3-T2K20-B5



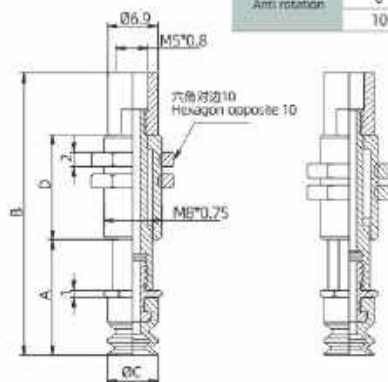
尺寸表 Dimension table

型号 Model	A	B	C
B-ZP3-T10UM□□15-B5	37.5	56	11
B-ZP3-T10UM□□20-B5	45	63.5	11
B-ZP3-T13UM□□15-B5	37.5	56	14
B-ZP3-T13UM□□20-B5	45	63.5	14
B-ZP3-T16UM□□15-B5	37.5	56	17
B-ZP3-T16UM□□20-B5	45	63.5	17

B-ZP3-T-04~08B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	3	B-ZP3-T2AJ3-B5
	6	B-ZP3-T2AJ6-B5
	10	B-ZP3-T2AJ10-B5
可回转 Anti rotation	3	B-ZP3-T2AK3-B5
	6	B-ZP3-T2AK6-B5
	10	B-ZP3-T2AK10-B5



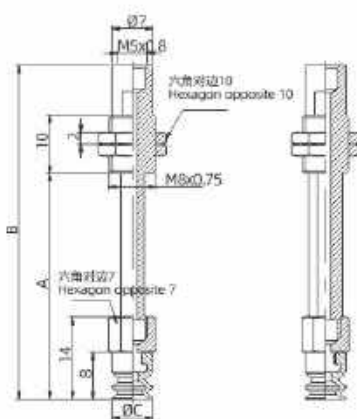
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZP3-T04B□□3-B5	13	32.5		11
B-ZP3-T04B□□6-B5	16	39	4.5	14.5
B-ZP3-T04B□□10-B5	20	49		20.5
B-ZP3-T06B□□3-B5	13	32.5		11
B-ZP3-T06B□□6-B5	16	39	7	14.5
B-ZP3-T06B□□10-B5	20	49		20.5
B-ZP3-T08B□□3-B5	13	32.5		11
B-ZP3-T08B□□6-B5	16	39	9	14.5
B-ZP3-T08B□□10-B5	20	49		20.5

B-ZP3-T-04~08B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	15	B-ZP3-T2AJ15-B5
	20	B-ZP3-T2AJ20-B5
可回转 Anti rotation	15	B-ZP3-T2AK15-B5
	20	B-ZP3-T2AK20-B5



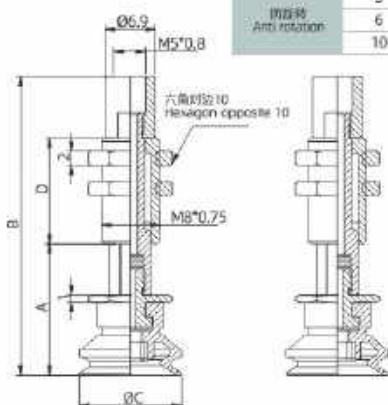
尺寸表 Dimension table

型号 Model	A	B	C
B-ZP3-T04B□□15-B5	38.5	57	4.5
B-ZP3-T04B□□20-B5	46	64.5	4.5
B-ZP3-T06B□□15-B5	38.5	57	7
B-ZP3-T06B□□20-B5	46	64.5	7
B-ZP3-T08B□□15-B5	38.5	57	9
B-ZP3-T08B□□20-B5	46	64.5	9

B-ZP3-T-10~16B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	3	B-ZP3-T2BJ3-B5
	6	B-ZP3-T2BJ6-B5
	10	B-ZP3-T2BJ10-B5
可回转 Anti rotation	3	B-ZP3-T2BK3-B5
	6	B-ZP3-T2BK6-B5
	10	B-ZP3-T2BK10-B5



尺寸表 Dimension table

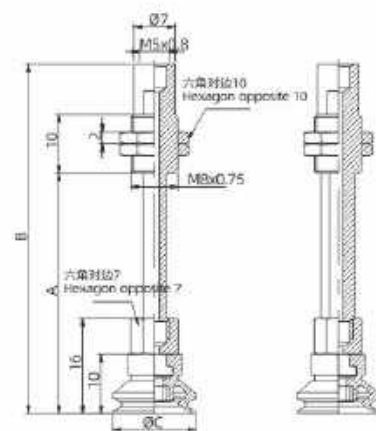
型号 Model	A	B	C	D
B-ZP3-T10B□□3-B5	15	34.5		11
B-ZP3-T10B□□6-B5	18	41	11	14.5
B-ZP3-T10B□□10-B5	22	51		20.5
B-ZP3-T13B□□3-B5	15	34.5		11
B-ZP3-T13B□□6-B5	18	41	14	14.5
B-ZP3-T13B□□10-B5	22	51		20.5
B-ZP3-T16B□□3-B5	15	34.5		11
B-ZP3-T16B□□6-B5	18	41	17	14.5
B-ZP3-T16B□□10-B5	22	51		20.5

安装用连接器型号 Connector model for installation

B-ZP3-T-10~16B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	15	B-ZP3-T2BJ15-B5
	20	B-ZP3-T2BJ20-B5
可回转 Anti rotation	15	B-ZP3-T2BK15-B5
	20	B-ZP3-T2BK20-B5



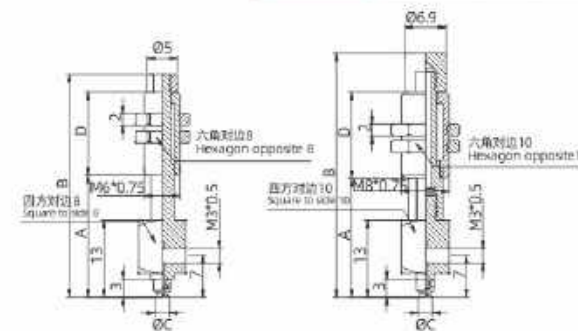
尺寸表 Dimension table

型号 Model	A	B	C
B-ZP3-T10B□□15-B5	40.5	59	
B-ZP3-T10B□□20-B5	48	66.5	11
B-ZP3-T13B□□15-B5	40.5	59	14
B-ZP3-T13B□□20-B5	48	66.5	14
B-ZP3-T16B□□15-B5	40.5	59	17
B-ZP3-T16B□□20-B5	48	66.5	17

B-ZP3-Y-015~035U

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	3	B-ZP3-Y1J3-B3
	6	B-ZP3-Y1J6-B3
可回转 Anti rotation	3	B-ZP3-Y1K3-B3
	6	B-ZP3-Y1K6-B3



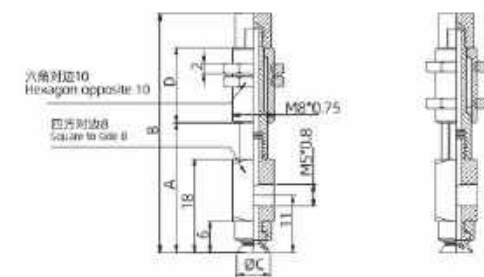
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZP3-Y015U□□3-B3	17	30		10
B-ZP3-Y015U□□6-B3	20	37	2	14
B-ZP3-Y020U□□3-B3	17	30	2.5	10
B-ZP3-Y020U□□6-B3	20	37		14
B-ZP3-Y035U□□3-B3	17	30		10
B-ZP3-Y035U□□6-B3	20	37	4	14
B-ZP3-Y015U□□K3-B3	17	34	2	11
B-ZP3-Y015U□□K6-B3	20	40.5		14.5
B-ZP3-Y020U□□K3-B3	17	34.5	2.5	11
B-ZP3-Y020U□□K6-B3	20	40.5		14.5
B-ZP3-Y035U□□K3-B3	17	34	4	11
B-ZP3-Y035U□□K6-B3	20	40.5		14.5

B-ZP3-Y-04~08UM

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	3	B-ZP3-Y2AJ3-B5
	6	B-ZP3-Y2AJ6-B5
	10	B-ZP3-Y2AJ10-B5
可回转 Anti rotation	3	B-ZP3-Y2AK3-B5
	6	B-ZP3-Y2AK6-B5
	10	B-ZP3-Y2AK10-B5



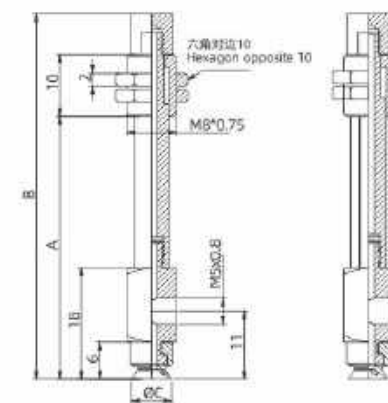
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZP3-Y04UM□□3-B5	22.5	40		11
B-ZP3-Y04UM□□6-B5	25	46	4.5	14.5
B-ZP3-Y04UM□□10-B5	29	56		20.5
B-ZP3-Y06UM□□3-B5	22.5	40		11
B-ZP3-Y06UM□□6-B5	25	46	6.5	14.5
B-ZP3-Y06UM□□10-B5	29	56		20.5
B-ZP3-Y08UM□□3-B5	22.5	40		11
B-ZP3-Y08UM□□6-B5	25	46	8.5	14.5
B-ZP3-Y08UM□□10-B5	29	56		20.5

B-ZP3-Y-04~08UM

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	可回转型号 Rotating model
不回转 Not anti rotation	15	B-ZP3-Y2AJ15-B5
	20	B-ZP3-Y2AJ20-B5
可回转 Anti rotation	15	B-ZP3-Y2AK15-B5
	20	B-ZP3-Y2AK20-B5



尺寸表 Dimension table

型号 Model	A	B	C
B-ZP3-Y04UM□□15-B5	42.5	59	4.5
B-ZP3-Y04UM□□20-B5	50	66.5	4.5
B-ZP3-Y06UM□□15-B5	42.5	59	6.5
B-ZP3-Y06UM□□20-B5	50	66.5	6.5
B-ZP3-Y08UM□□15-B5	42.5	59	8.5
B-ZP3-Y08UM□□20-B5	50	66.5	8.5

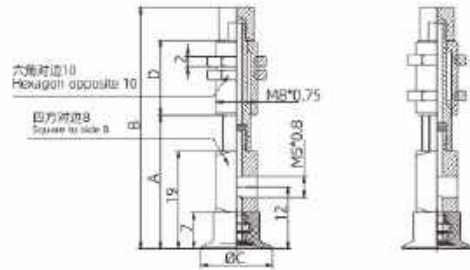
B-ZP3-T/Y series

安装用连接器型号 Connector model for installation

B-ZP3-Y-10~16UM

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	缓冲托架型号 Buffering model
不防旋转 Not anti rotation	3	B-ZP3-Y2B13-B5
	6	B-ZP3-Y2B16-B5
	10	B-ZP3-Y2B10-B5
防旋转 Anti rotation	3	B-ZP3-Y2BK3-B5
	6	B-ZP3-Y2BK6-B5
	10	B-ZP3-Y2BK10-B5



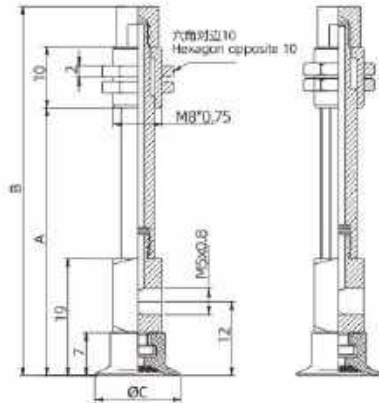
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZP3-Y10UM□□3-B5	23.5	41		11
B-ZP3-Y10UM□□6-B5	26	47	11	14.5
B-ZP3-Y10UM□□10-B5	30	57		20.5
B-ZP3-Y13UM□□3-B5	23.5	41		11
B-ZP3-Y13UM□□6-B5	26	47	14	14.5
B-ZP3-Y13UM□□10-B5	30	57		20.5
B-ZP3-Y16UM□□3-B5	23.5	41		11
B-ZP3-Y16UM□□6-B5	26	47	17	14.5
B-ZP3-Y16UM□□10-B5	30	57		20.5

B-ZP3-Y-10~16UM

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	缓冲托架型号 Buffering model
不防旋转 Not anti rotation	15	B-ZP3-Y2B15-B5
	20	B-ZP3-Y2B20-B5
	15	B-ZP3-Y2BK15-B5
防旋转 Anti rotation	20	B-ZP3-Y2BK20-B5



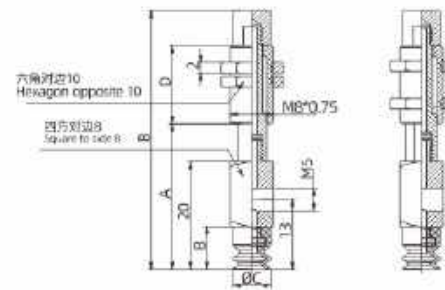
尺寸表 Dimension table

型号 Model	A	B	C
B-ZP3-Y10UM□□15-B5	43.5	60	
B-ZP3-Y10UM□□20-B5	51	67.5	11
B-ZP3-Y13UM□□15-B5	43.5	60	14
B-ZP3-Y13UM□□20-B5	51	67.5	
B-ZP3-Y16UM□□15-B5	43.5	60	17
B-ZP3-Y16UM□□20-B5	51	67.5	

B-ZP3-Y-04-08B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	缓冲托架型号 Buffering model
不防旋转 Not anti rotation	3	B-ZP3-Y2A13-B5
	6	B-ZP3-Y2A16-B5
	10	B-ZP3-Y2A10-B5
防旋转 Anti rotation	3	B-ZP3-Y2AK3-B5
	6	B-ZP3-Y2AK6-B5
	10	B-ZP3-Y2AK10-B5



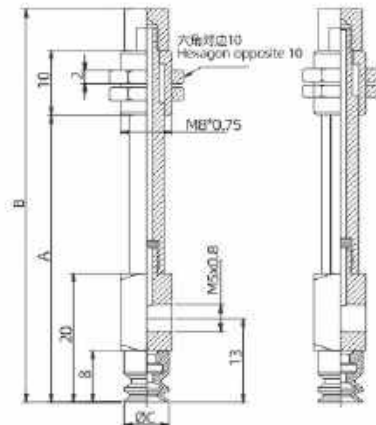
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZP3-Y04B□□3-B5	24.5	42		11
B-ZP3-Y04B□□6-B5	27	48	4.5	14.5
B-ZP3-Y04B□□10-B5	31	58		20.5
B-ZP3-Y06B□□3-B5	24.5	42		11
B-ZP3-Y06B□□6-B5	27	48	7	14.5
B-ZP3-Y06B□□10-B5	31	58		20.5
B-ZP3-Y08B□□3-B5	24.5	42		11
B-ZP3-Y08B□□6-B5	27	48	9	14.5
B-ZP3-Y08B□□10-B5	31	58		20.5

B-ZP3-Y-04-08B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	缓冲托架型号 Buffering model
不防旋转 Not anti rotation	15	B-ZP3-Y2A15-B5
	20	B-ZP3-Y2A20-B5
	15	B-ZP3-Y2AK15-B5
防旋转 Anti rotation	20	B-ZP3B-Y2AK20-B5



尺寸表 Dimension table

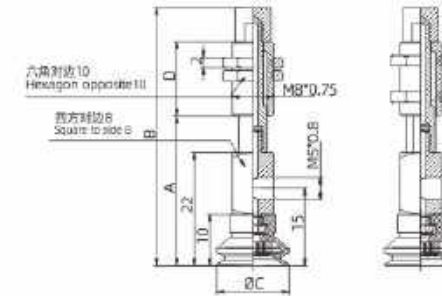
型号 Model	A	B	C
B-ZP3-Y04B□□15-B5	44.5	61	4.5
B-ZP3-Y04B□□20-B5	52	68.5	
B-ZP3-Y06B□□15-B5	44.5	61	7
B-ZP3-Y06B□□20-B5	52	68.5	
B-ZP3-Y08B□□15-B5	44.5	61	9
B-ZP3-Y08B□□20-B5	52	68.5	

安装用连接器型号 Connector model for installation

B-ZP3-Y-10~16B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	缓冲托架型号 Buffering model
不防旋转 Not anti rotation	3	B-ZP3-Y2B13-B5
	6	B-ZP3-Y2B16-B5
	10	B-ZP3-Y2B10-B5
防旋转 Anti rotation	3	B-ZP3-Y2BK3-B5
	6	B-ZP3-Y2BK6-B5
	10	B-ZP3-Y2BK10-B5



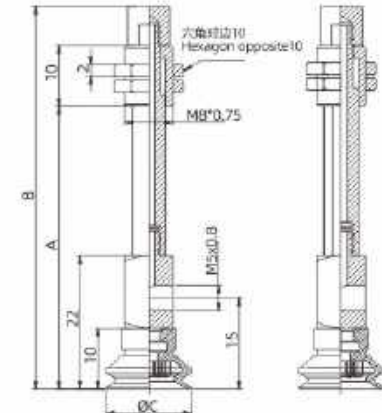
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZP3-Y10B□□3-B5	26.5	44		11
B-ZP3-Y10B□□6-B5	29	50	11	14.5
B-ZP3-Y10B□□10-B5	33	60		20.5
B-ZP3-Y13B□□3-B5	26.5	44		11
B-ZP3-Y13B□□6-B5	29	50	14	14.5
B-ZP3-Y13B□□10-B5	33	60		20.5
B-ZP3-Y16B□□3-B5	26.5	44		11
B-ZP3-Y16B□□6-B5	29	50	17	14.5
B-ZP3-Y16B□□10-B5	33	60		20.5

B-ZP3-Y-10~16B

对应缓冲托架型号
Corresponding buffer bracket model

类型 Type	行程 Stroke	缓冲托架型号 Buffering model
不防旋转 Not anti rotation	15	B-ZP3-Y2B15-B5
	20	B-ZP3-Y2B20-B5
	15	B-ZP3-Y2BK15-B5
防旋转 Anti rotation	20	B-ZP3-Y2BK20-B5



尺寸表 Dimension table

型号 Model	A	B	C
B-ZP3-Y10B□□15-B5	46.5	63	11
B-ZP3-Y10B□□20-B5	54	70.5	
B-ZP3-Y13B□□15-B5	46.5	63	14
B-ZP3-Y13B□□20-B5	54	70.5	
B-ZP3-Y16B□□15-B5	46.5	63	17
B-ZP3-Y16B□□20-B5	54	70.5	

B-ZP3E-UM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Suction cup monomer

吸盘单体

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)



型号表示方式 Model representation

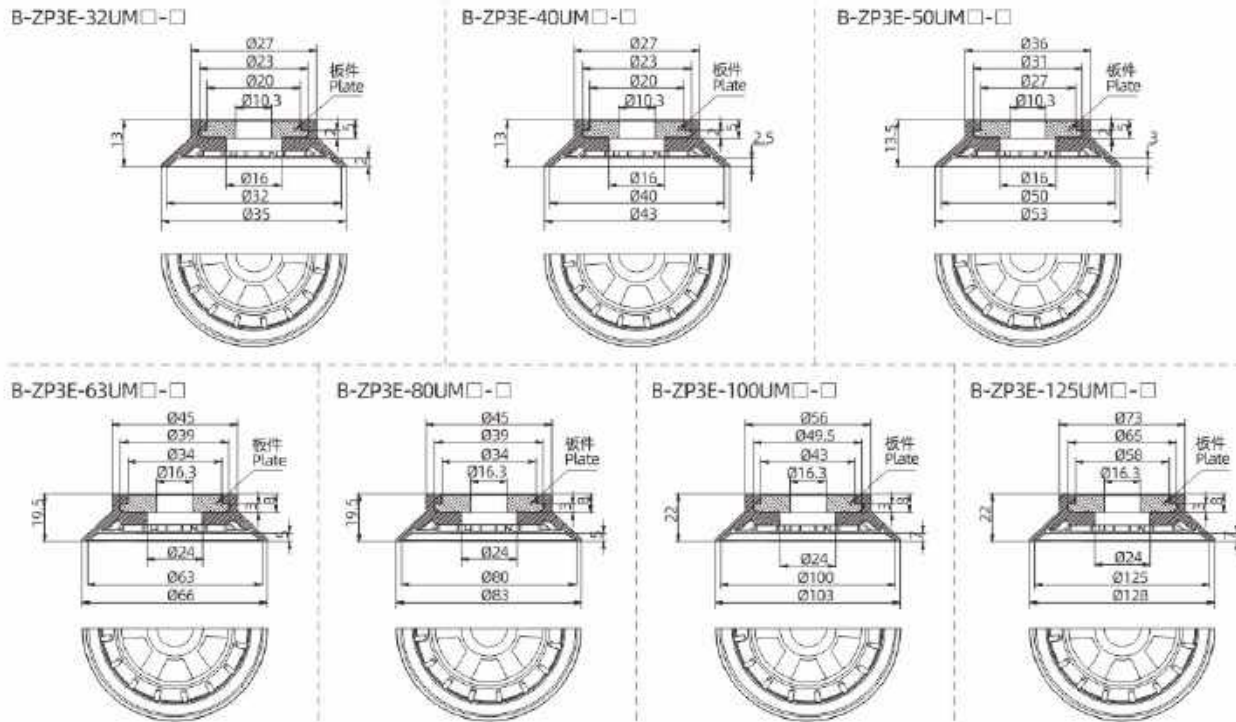
B-ZP3E - 32 UM N - P

① 吸盘直径 Suction cup diameter		② 吸盘形状 Suction cup shape		③ 吸盘材质 Suction cup Material		④ 是否带板件 is there a board included	
序号 Code	直径 Diameter	代号 Code	形状 Shape	代号 Sign	材质 Material	空白 Blank	不带 Without
32	Ø32	UM	平型带肋 Flat ribbed	N	丁腈橡胶 Nitrile rubber	P	带板件 With plate components
40	Ø40			S	硅橡胶 Silicone rubber		
50	Ø50			GS	防静电硅胶 Anti-static silicone		
63	Ø63			NE	导电丁腈橡胶 Conductive nitrile rubber		
80	Ø80			F	氟橡胶/灰 Fluoro rubber / grey		
100	Ø100			FS	氟硅橡胶 Fluorosilicone rubber		
125	Ø125			LH	无卤阻燃聚丙烯 No halogen antipolym chlorinated polypropylene		

* 带肋规格：工件刚性加强，Sandribbed Specifications: the reinforcement of the workpiece is strengthened.

* N/S为防静电、防静电、其他材质为特殊材料，起订量 100pcs. * N/S is antistatic material, sandribbed, other materials is special material, starting order quantity: 100pcs.

尺寸图表 Dimensional chart



Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum extraction-With connector

纵向真空引出-带连接器

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)



型号表示方式 Model representation

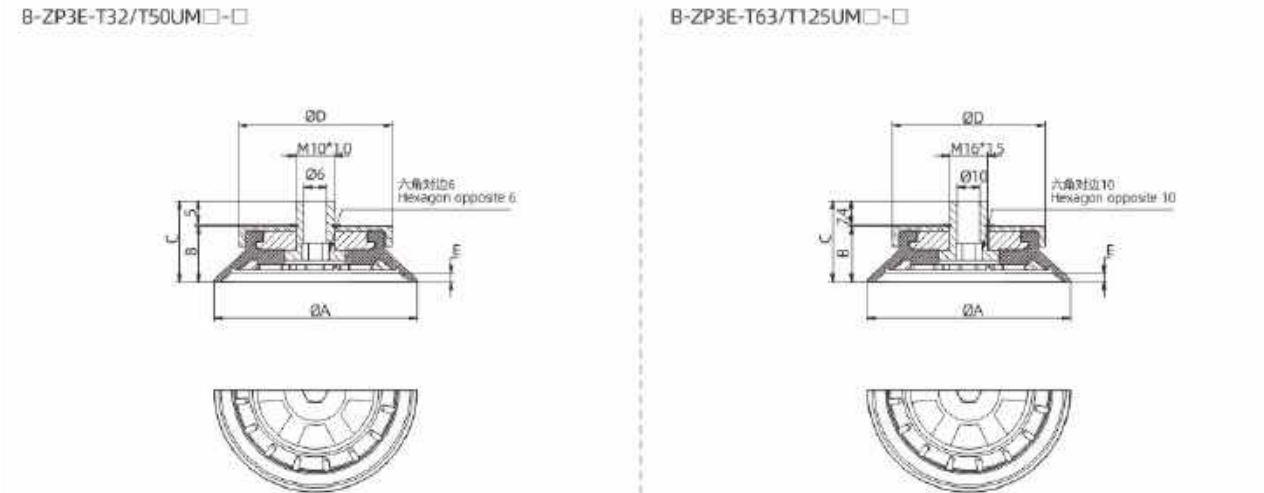
B-ZP3E - T 32 UM N - A10

① 吸盘直径 Suction cup diameter		② 吸盘形状 Suction cup shape		③ 吸盘材质 Suction cup Material		④ 安装方式 Installation method			
序号 Code	直径 Diameter	代号 Code	形状 Shape	代号 Sign	材质 Material	代号 Code	螺母规格 Installation connection thread diameter	Ø32-Ø50	Ø63-Ø125
32	Ø32	UM	平型带肋 Flat ribbed	N	丁腈橡胶 Nitrile rubber	A10	M10x1	●	-
40	Ø40			S	硅橡胶 Silicone rubber	A16	M16x1.5	-	●
50	Ø50			GS	防静电硅胶 Anti-static silicone				
63	Ø63			NE	导电丁腈橡胶 Conductive nitrile rubber				
80	Ø80			F	氟橡胶/灰 Fluoro rubber / grey				
100	Ø100			FS	氟硅橡胶 Fluorosilicone rubber				
125	Ø125			LH	无卤阻燃聚丙烯 No halogen antipolym chlorinated polypropylene				

* 带肋规格：工件刚性加强，Sandribbed Specifications: the reinforcement of the workpiece is strengthened.

* N/S为防静电、防静电、其他材质为特殊材料，起订量 100pcs. * N/S is antistatic material, sandribbed, other materials is special material, starting order quantity: 100pcs.

尺寸图表 Dimensional chart



尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZP3E-T32UM□-A10	35	14.5	21	31	2
B-ZP3E-T40UM□-A10	43	14.5	21	31	2.5
B-ZP3E-T50UM□-A10	53	15	21.5	40	3

尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZP3E-T63UM□-A16	66	21	30.5	49	5
B-ZP3E-T80UM□-A16	83	21	30.5	49	5
B-ZP3E-T100UM□-A16	103	23.6	33	60	7
B-ZP3E-T125UM□-A16	128	23.6	33	77.8	7

B-ZP3E-UM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum nozzle type-Buffered

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)

垂直真空接管型-带缓冲



型号表示方式 Model representation

B-ZP3E - T 32 UM N JB 10

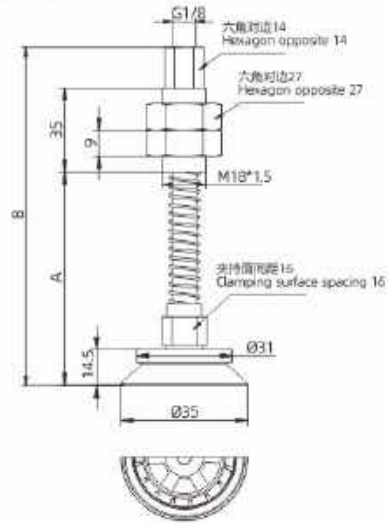
① 吸盘直径 Suction cup diameter		② 吸盘形状 Suction cup shape		③ 吸盘材质 Suction cup Material		④ 回转方式 Swing method		⑤ 缓冲行程 Buffer stroke	
代号 Code	直径 Diameter	代号 Code	形状 Shape	代号 Sign	材质 Material	代号 Code	行程 Stroke	代号 Code	行程 Stroke
32	Ø32	UM	平型带肋 Flat ribbed	N	丁腈橡胶 Nitrile rubber	JB	10	10	10
40	Ø40			S	硅橡胶 Silicone rubber		30	30	30
50	Ø50			GS	防静电硅胶 Anti-static silicone		50	50	50
63	Ø63			NE	导电丁腈橡胶 Conductive nitrile rubber				
80	Ø80			F	氟橡胶 / 灰 Fluoro rubber / grey				
100	Ø100			FS	氟硅橡胶 Fluoro silicone rubber				
125	Ø125			LH	无卤阻燃材料 For trace absorption equipment				

※ 请参照规格书，了解详细性能。
※ Please refer to the specification for detailed performance.

* 如无特殊说明，重量按此，其他材料按材料表。重量按此。
* If no special material, weight according to material table. Weight according to this.

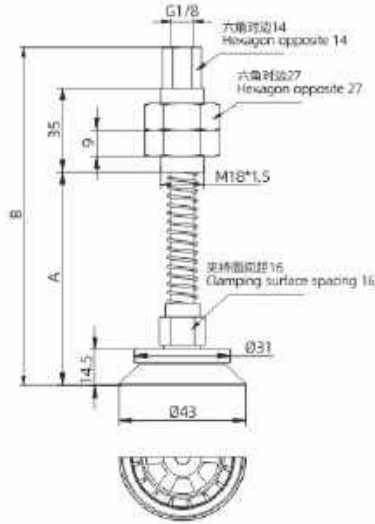
尺寸图表 Dimensional chart

B-ZP3E-T32UM□JB□



型号 Model	A	B
B-ZP3E-T32UM□JB50	63.6	115.6
B-ZP3E-T32UM□JB50	88.6	140.6
B-ZP3E-T32UM□JB50	108.6	160.6

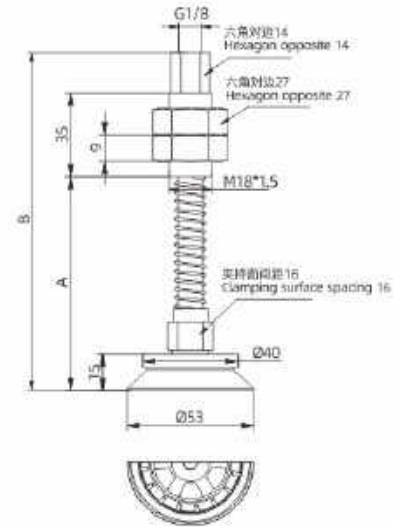
B-ZP3E-T40UM□JB□



型号 Model	A	B
B-ZP3E-T40UM□JB10	63.6	115.6
B-ZP3E-T40UM□JB30	88.6	140.6
B-ZP3E-T40UM□JB50	108.6	160.6

安装用连接器型号 Connector model for installation

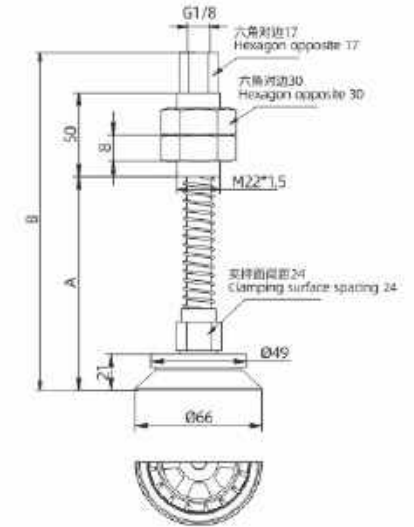
B-ZP3E-T50UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T50UM□JB10	64	116
B-ZP3E-T50UM□JB30	89	141
B-ZP3E-T50UM□JB50	109	161

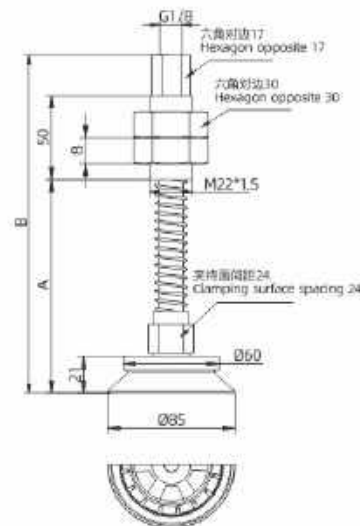
B-ZP3E-T63UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T63UM□JB10	81	151
B-ZP3E-T63UM□JB30	106	176
B-ZP3E-T63UM□JB50	126	196

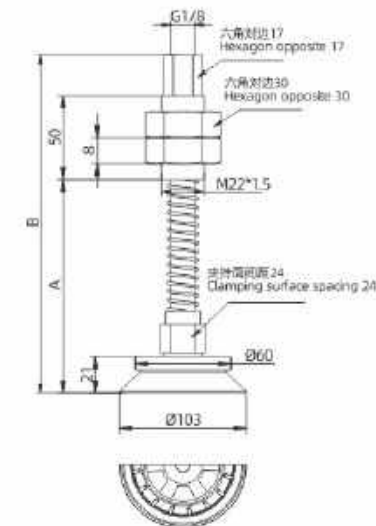
B-ZP3E-T80UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T80UM□JB10	81	151
B-ZP3E-T80UM□JB30	106	176
B-ZP3E-T80UM□JB50	126	196

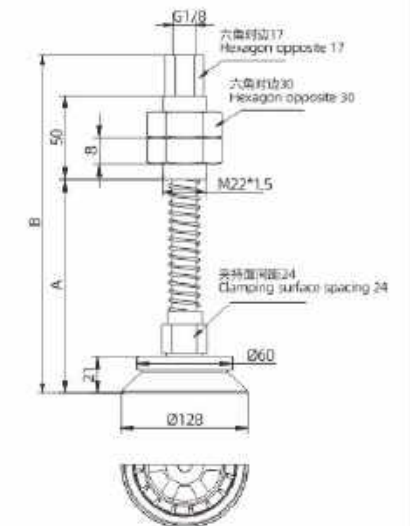
B-ZP3E-T100UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T100UM□JB10	83.6	153.6
B-ZP3E-T100UM□JB30	108.6	178.6
B-ZP3E-T100UM□JB50	128.6	198.6

B-ZP3E-T125UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T125UM□JB10	83.6	153.6
B-ZP3E-T125UM□JB30	108.6	178.6
B-ZP3E-T125UM□JB50	128.6	198.6

B-ZP3E-UM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum extraction-Head swinging connector

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)

纵向真空引出-带头可摆动连接器

万向型
偏摆角度30°
Universal type
with a 30°
deflection angle



型号表示方式 Model representation

B-ZP3E - TF 32 UM N - AL6

① 真空引出方向 Vacuum extraction direction

记号 Sign	规格 Specifications
F	头可摆动 Head can swing

② 吸盘形状 Suction cup shape

代码 Code	形状 Shape
UM	平型带肋 Flat ribbed

④ 吸盘材质 Suction cup Material

记号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluoro silicone rubber
LH	无铅达灵顿对苯 Tin free adaption countermeasure

③ 安装方式 Installation method

代码 Code	记号 Sign	安装连接 Installation connection	Ø32-Ø50	Ø63-Ø125
AL6		M6x1	●	-
AL12		M12x1.25	-	●

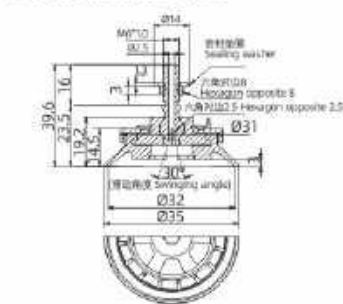
代码 Code	直径 Dia.
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80
100	Ø100
125	Ø125

* 备注说明：工件表面有加强，密封量 100µm。
* Note: Workpiece surface is strengthened, the separation of the workpiece is strengthened.

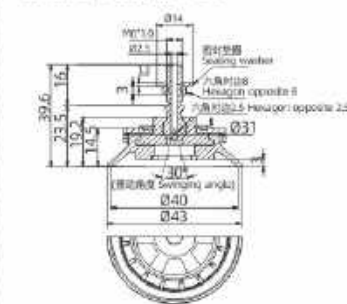
* N/S为特殊材质，密封量增加，密封量为100µm。
* N/S is special material, sealing amount, other material is special material, sealing order quantity: 100µm.

尺寸图表 Dimensional chart

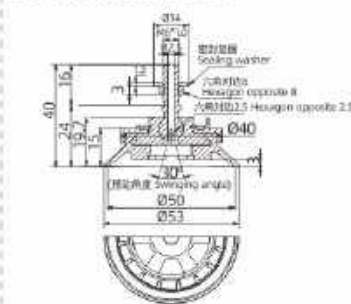
B-ZP3E-TF32UM□-AL6



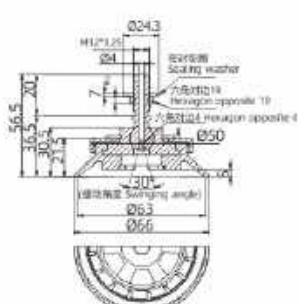
B-ZP3E-TF40UM□-AL6



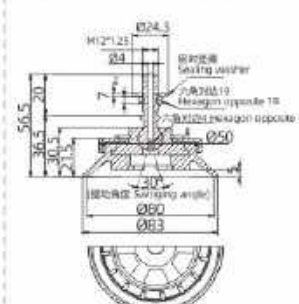
B-ZP3E-TF50UM□-AL6



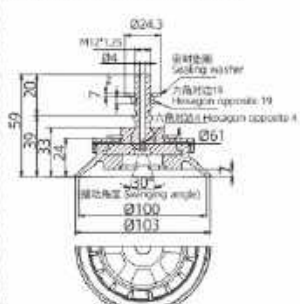
B-ZP3E-TF63UM□-AL12



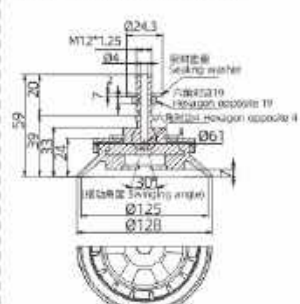
B-ZP3E-TF80UM□-AL12



B-ZP3E-TF100UM□-AL12



B-ZP3E-TF125UM□-AL12



Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum nozzle type-Buffered

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)

垂直真空接管型-带缓冲

万向型
偏摆角度30°
Universal type
with a 30°
deflection angle



型号表示方式 Model representation

B-ZP3E - TF 32 UM N JB 10

① 真空引出方向 Vacuum extraction direction

记号 Sign	规格 Specifications
F	头可摆动 Head can swing

② 吸盘形状 Suction cup shape

代码 Code	形状 Shape
UM	平型带肋 Flat ribbed

④ 吸盘材质 Suction cup Material

记号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluoro silicone rubber
LH	无铅达灵顿对苯 Tin free adaption countermeasure

⑤ 回转方式 Swing method

代码 Code	规格 Specifications
JB	缓冲行程, 缓冲行程 10mm

⑥ 缓冲行程 Buffer stroke

代码 Code	行程 Stroke
10	10mm
30	30mm
50	50mm

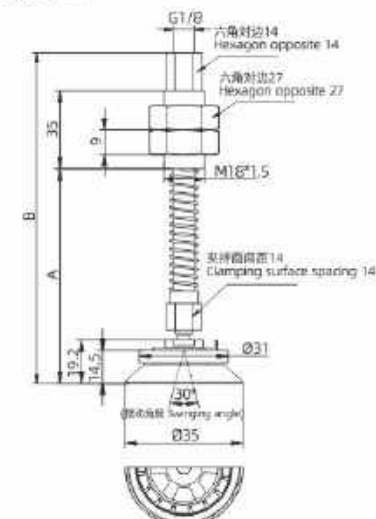
代码 Code	直径 Dia.
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80
100	Ø100
125	Ø125

* 备注说明：工件表面有加强，密封量 100µm。
* Note: Workpiece surface is strengthened, the separation of the workpiece is strengthened.

* N/S为特殊材质，密封量增加，密封量为100µm。
* N/S is special material, sealing amount, other material is special material, sealing order quantity: 100µm.

尺寸图表 Dimensional chart

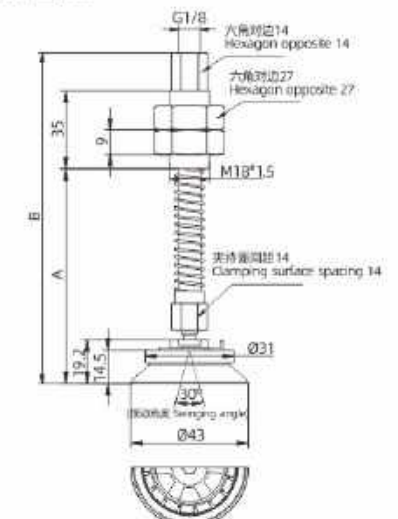
B-ZP3E-TF32UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF32UM□JB10	71	123
B-ZP3E-TF32UM□JB30	96	148
B-ZP3E-TF32UM□JB50	116	168

B-ZP3E-TF40UM□JB□

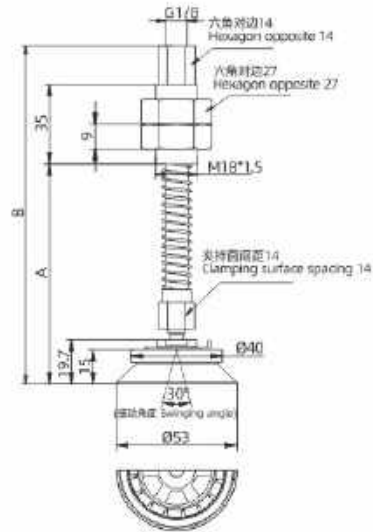


尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF40UM□JB10	71	123
B-ZP3E-TF40UM□JB30	96	148
B-ZP3E-TF40UM□JB50	116	168

安装用连接器型号 Connector model for installation

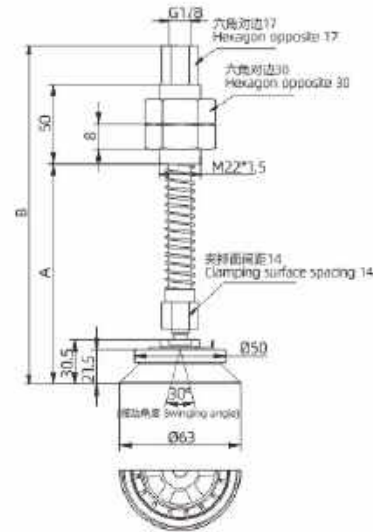
B-ZP3E-TF50UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF50UM□JB10	71.5	123.6
B-ZP3E-TF50UM□JB30	96.5	148.6
B-ZP3E-TF50UM□JB50	116.5	168.6

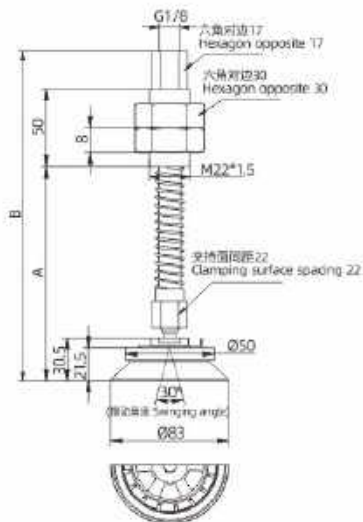
B-ZP3E-TF63UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF63UM□JB10	98.5	168.5
B-ZP3E-TF63UM□JB30	123.5	193.5
B-ZP3E-TF63UM□JB50	143.5	213.5

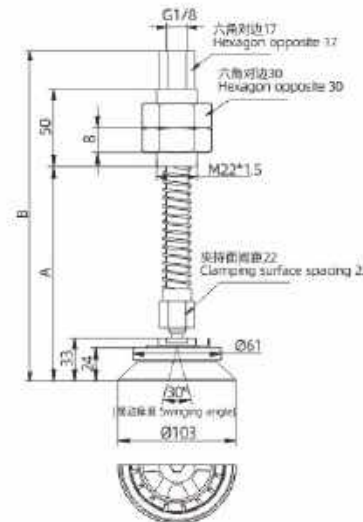
B-ZP3E-TF80UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF80UM□JB10	98.5	168.5
B-ZP3E-TF80UM□JB30	123.5	193.5
B-ZP3E-TF80UM□JB50	143.5	213.5

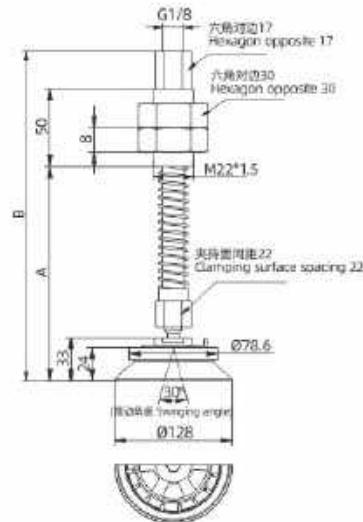
B-ZP3E-TF100UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF100UM□JB10	101	171
B-ZP3E-TF100UM□JB30	126	196
B-ZP3E-TF100UM□JB50	146	216

B-ZP3E-TF125UM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF125UM□JB10	101	171
B-ZP3E-TF125UM□JB30	126	196
B-ZP3E-TF125UM□JB50	146	216

B-ZP3E-BM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Suction cup monomer

UM(平型带肋 Flat ribbed)
BM(凤琴型带肋 organ shaped ribbed)

吸盘单体



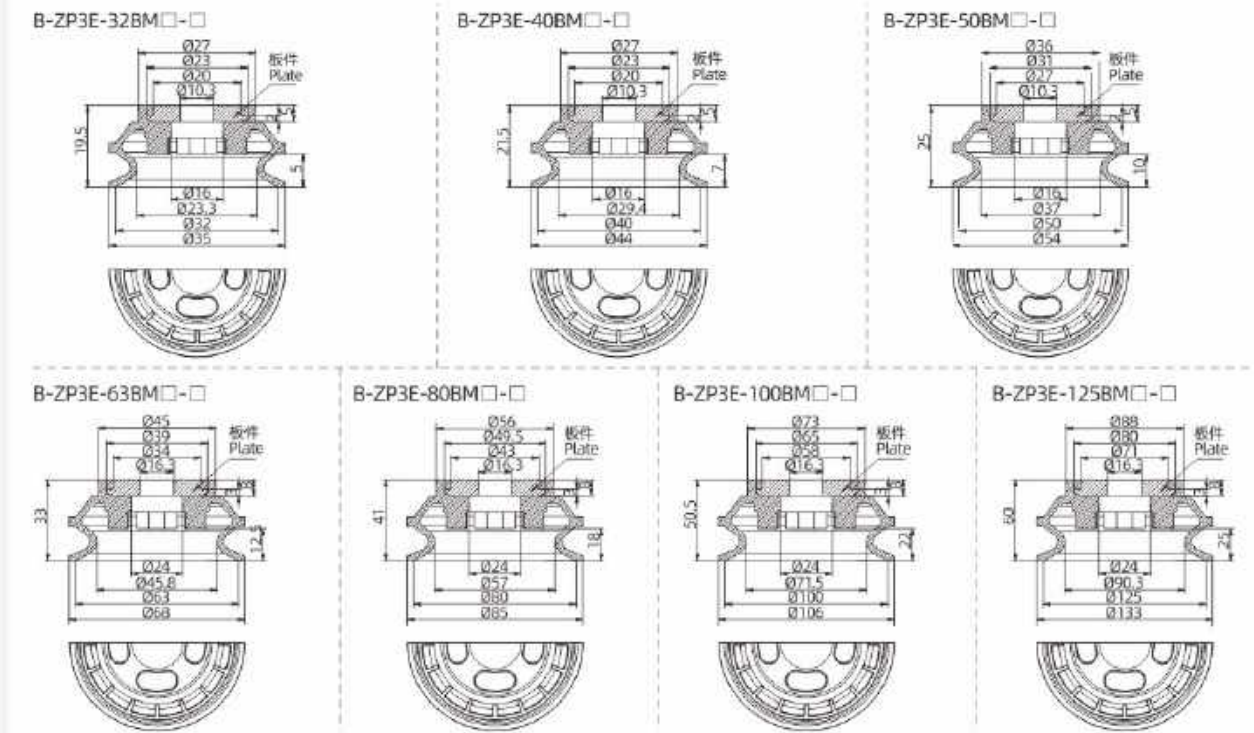
型号表示方式 Model representation

B-ZP3E - 32 BM N - P

① 吸盘直径 Suction cup diameter		② 吸盘形状 Suction cup shape		③ 吸盘材质 Suction cup Material		④ 是否带板件 is there a board included	
序号 Code	直径 Diameter	代码 Code	形状 Shape	代号 Sign	材质 Material	空白 Blank	不带 Without
32	Ø32	BM	凤琴型带肋 Organ shaped ribbed	N	丁腈橡胶 Nitrile rubber	P	带板件 With plate components
40	Ø40			S	硅橡胶 Silicone rubber		
50	Ø50			GS	防静电硅胶 Anti-static silicone		
63	Ø63			NE	导电丁腈橡胶 Conductive nitrile rubber		
80	Ø80			F	氟橡胶/灰 Fluoro rubber / grey		
100	Ø100			FS	氟硅橡胶 Fluorosilicone rubber		
125	Ø125			LH	无氟达灵胶对嘴 No fluor elastomer countermeasure		

* N/A为任意材质，需备注，其他材质为特殊材质，起订量：100pcs.
* N/A is optional material, standing stock, the material is special material, starting stock quantity: 100pcs.

尺寸图表 Dimensional chart



B-ZP3E-BM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum extraction-With connector

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)

纵向真空引出-带连接器



型号表示方式 Model representation

B-ZP3E-T 32 BM N - A10

① 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80
100	Ø100
125	Ø125

* 最少规格：工件刚性加强，
Satisfying Specifications, the separation
of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

代号 Code	形状 Shape
BM	风琴型带肋 Organ shaped ribbed

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluoro silicone rubber
LH	无氟边吸盘对单 No fluorine adsorption countermeasure

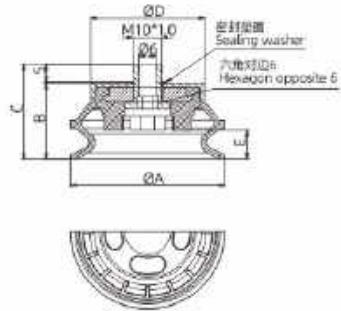
* N/S为通用材料，特等硅胶，密封时请涂密封胶，
打打量：100µm。
* N/S is standard material, during work, other material
is special material, using only quantity: 100µm.

④ 安装方式 Installation method

代号 Code	记号 Sign	安装连接 Installation connection	螺紋口径 Thread diameter	Ø32-Ø50	Ø63-Ø125
直插安装 For direct insertion	AL10	M10x1	●	-	-
	AL16	M16x1.5	-	●	-

尺寸图表 Dimensional chart

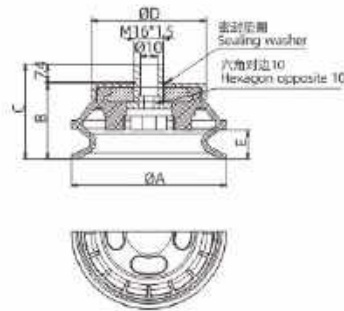
B-ZP3E-TØ32-Ø50BM□-□



尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZP3E-T32BM□-A10	35	21	27.5	31	5
B-ZP3E-T40BM□-A10	44	23	29.5	31	7
B-ZP3E-T50BM□-A10	54	26.5	33	40	10

B-ZP3E-TØ63-Ø125BM□-□



尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZP3E-T63BM□-A16	68	34.6	44	49	12.5
B-ZP3E-T80BM□-A16	85	42.6	52	60	18
B-ZP3E-T100BM□-A16	106	52	61.5	77.8	22
B-ZP3E-T125BM□-A16	133	61.6	71	93	25

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum nozzle type-Buffered

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)

垂直真空接管型-带缓冲



型号表示方式 Model representation

B-ZP3E-T 32 BM N JB 10

① 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80
100	Ø100
125	Ø125

* 最少规格：工件刚性加强，
Satisfying Specifications, the separation
of the workpiece is strengthened.

② 吸盘形状 Suction cup shape

代号 Code	形状 Shape
BM	风琴型带肋 Organ shaped ribbed

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluoro silicone rubber
LH	无氟边吸盘对单 No fluorine adsorption countermeasure

* N/S为通用材料，特等硅胶，密封时请涂密封胶，
打打量：100µm。
* N/S is standard material, during work, other material
is special material, using only quantity: 100µm.

④ 回转方式 Swing method

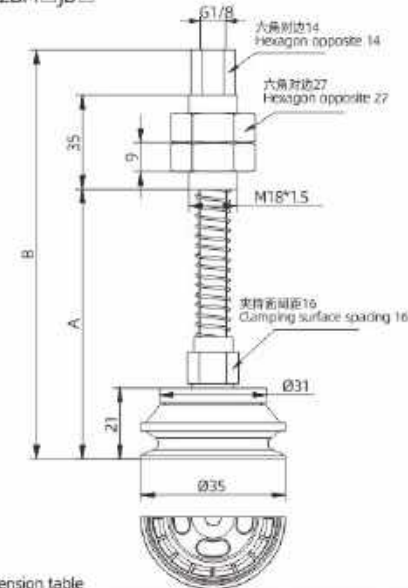
代号 Code	行程 Stroke
JB	10
	30
	50

⑤ 缓冲行程 Buffer stroke

代号 Code	行程 Stroke
10	10mm
30	30mm
50	50mm

尺寸图表 Dimensional chart

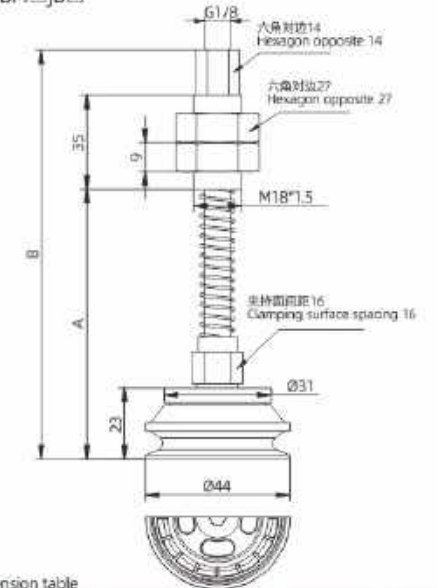
B-ZP3E-T32BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T32BM□JB10	70	122
B-ZP3E-T32BM□JB10	95	147
B-ZP3E-T32BM□JB10	115	167

B-ZP3E-T40BM□JB□

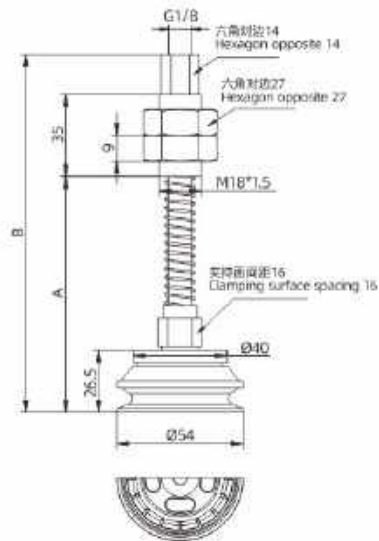


尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T40BM□JB10	72	124
B-ZP3E-T40BM□JB10	97	149
B-ZP3E-T40BM□JB10	117	169

安装用连接器型号 Connector model for installation

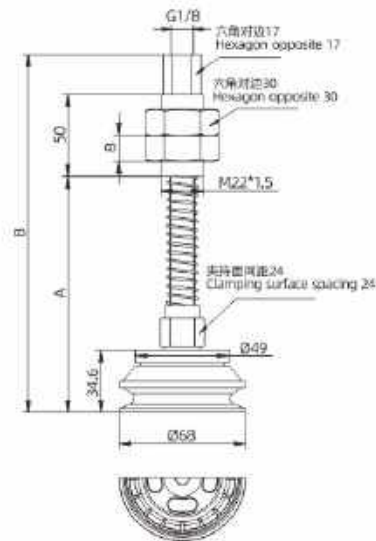
B-ZP3E-T50BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T50BM□JB10	75.6	127.6
B-ZP3E-T50BM□JB30	100.6	152.6
B-ZP3E-T50BM□JB50	120.6	172.6

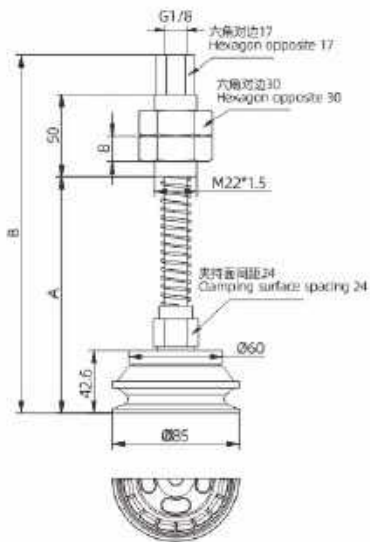
B-ZP3E-T63BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T63BM□JB10	94.6	164.6
B-ZP3E-T63BM□JB30	119.6	189.6
B-ZP3E-T63BM□JB50	139.6	209.6

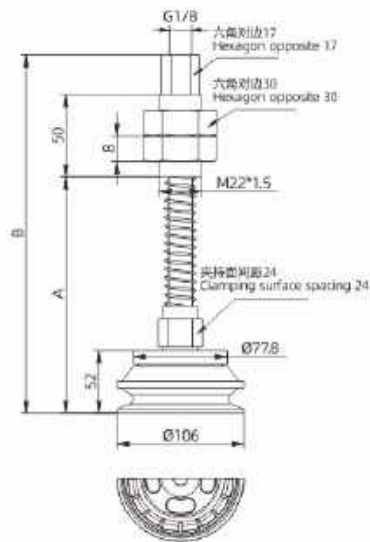
B-ZP3E-T80BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T80BM□JB10	102.6	172.6
B-ZP3E-T80BM□JB30	127.6	197.6
B-ZP3E-T80BM□JB50	147.6	217.6

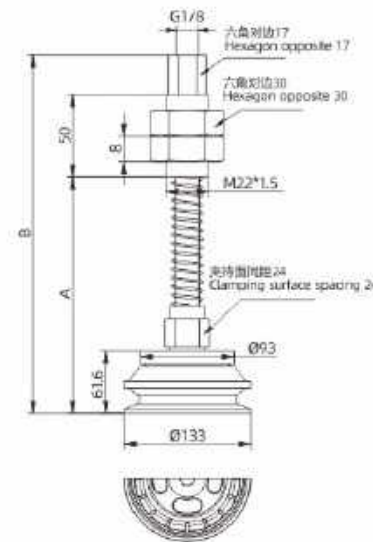
B-ZP3E-T100BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T100BM□JB10	112	182
B-ZP3E-T100BM□JB30	137	207
B-ZP3E-T100BM□JB50	157	227

B-ZP3E-T125BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-T125BM□JB10	121.6	191.6
B-ZP3E-T125BM□JB30	146.6	216.6
B-ZP3E-T125BM□JB50	166.6	236.6

B-ZP3E-BM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum extraction-Head swinging connector

UM(平型带肋 Flat ribbed)
BM(凤琴型带肋 organ shaped ribbed)

纵向真空引出-带头可摆动连接器

万向型
偏摆角度30°
Universal type
with a 30°
deflection angle



型号表示方式 Model representation

B-ZP3E - TF 32 BM N - AL6

① 真空引出方向 vacuum extraction direction

代号 Sign 规格 Specifications
F 头可摆动 Head can swing

② 吸盘形状 Suction cup shape

代号 Code 形状 Shape
BM 凤琴型带肋 Organ shaped ribbed

③ 吸盘材质 Suction cup Material

代号 Sign 材质 Material
N 丁腈橡胶 Nitrile rubber
S 硅橡胶 Silicone rubber
GS 防静电硅胶 Anti-static silicone
NE 氟丁基橡胶 Fluorocarbon rubber
F 氟橡胶/聚氟橡胶 Fluoro rubber / polyfluoro rubber
PS 氟硅橡胶 Fluorosilicone rubber
LH 无氟低硫材料 Non-fluoro ultra-low sulfur material

④ 安装方式 Installation method

代号 Code	代号 Sign	安装连接 螺紋口径 Thread diameter	Ø32-Ø50	Ø63-Ø125
AL6	AL6	M6x1	●	-
AL12	AL12	M12x1.25	-	●

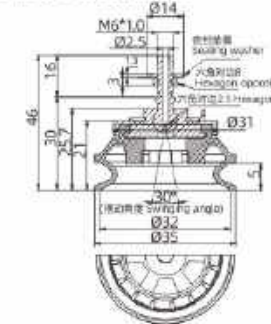
代号 Code	直径 Diameter
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80
100	Ø100
125	Ø125

※ 逐步规格：工件表面性加强。
Stepped Specifications: the vibration of the vibrator is strengthened.

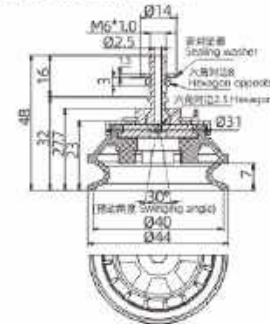
* Nitrile rubber material, standard size, other material is special material, please order number 10000.

尺寸图表 Dimensional chart

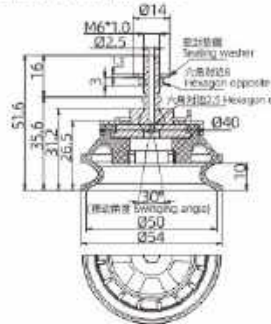
B-ZP3E-TF32BM□-AL6



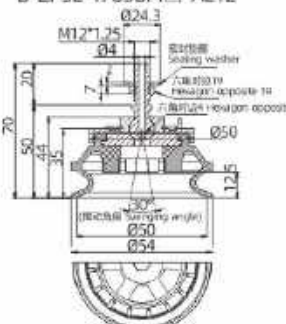
B-ZP3E-TF40BM□-AL6



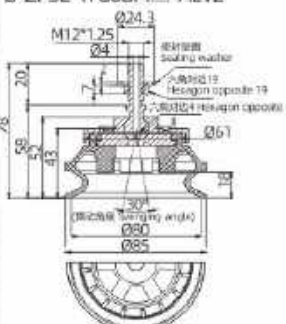
B-ZP3E-TF50BM□-AL6



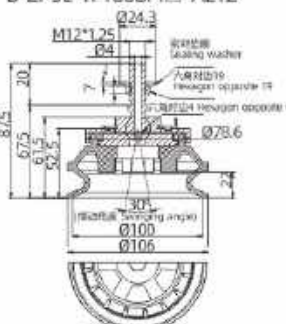
B-ZP3E-TF63BM□-AL12



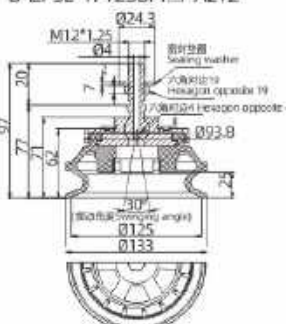
B-ZP3E-TF80BM□-AL12



B-ZP3E-TF100BM□-AL12



B-ZP3E-TF125BM□-AL12



B-ZP3E-BM series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Vertical vacuum nozzle type-Buffered

垂直真空接管型-带缓冲

UM(平型带肋 Flat ribbe)
BM(风琴型带肋 organ shaped ribbed)

万向型
偏摆角度30°
Universal type
with a 30°
deflection angle



型号表示方式 Model representation

B-ZP3E - TF 32 BM N JB 10

① 真空引出方向 Vacuum suction direction

代号 Sign	规格 Specifications
F	头可摆动 Head can swing

② 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80
100	Ø100
125	Ø125

③ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
BM	风琴型带肋 Organ shaped ribbed

④ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶 / 灰 Fluoro rubber / grey
PS	聚砜橡胶 Polysulfone rubber
LH	无摩擦吸盘衬套 No trace adsorption countermeasure

⑤ 回转方式 Swing method

代号 Code	行程 Stroke
10	10mm
30	30mm
50	50mm

⑥ 缓冲行程 Buffer stroke

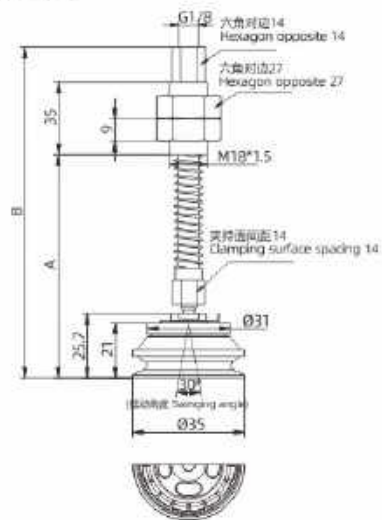
代号 Code	行程 Stroke
10	10mm
30	30mm
50	50mm

* 吸盘为吸盘材料，吸盘材质，其他材料为材料，吸盘：100cc。
* 40° is non-trace material, standing track other material is special material working under gravity, 100cc.

注：缓冲行程：工作位置控制距离，缓冲行程：100cc。
Note: Buffering specifications: the separation of the workpiece is strengthened.

尺寸图表 Dimensional chart

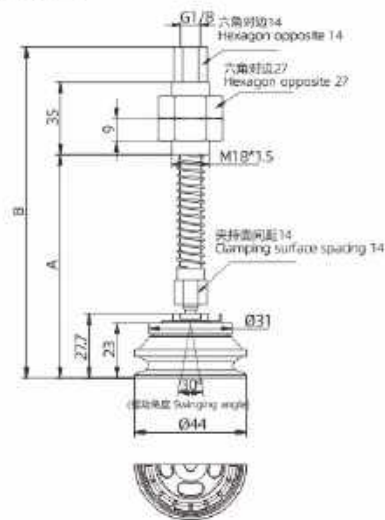
B-ZP3E-TF32BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF32UM□JB10	77.6	129.6
B-ZP3E-TF32UM□JB30	102.6	154.6
B-ZP3E-TF32UM□JB50	122.6	174.6

B-ZP3E-TF40BM□JB□

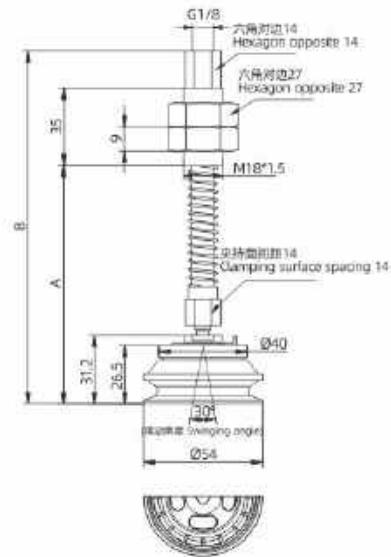


尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF40UM□JB10	79.6	131.6
B-ZP3E-TF40UM□JB30	104.6	156.6
B-ZP3E-TF40UM□JB50	124.6	176.6

安装用连接器型号 Connector model for installation

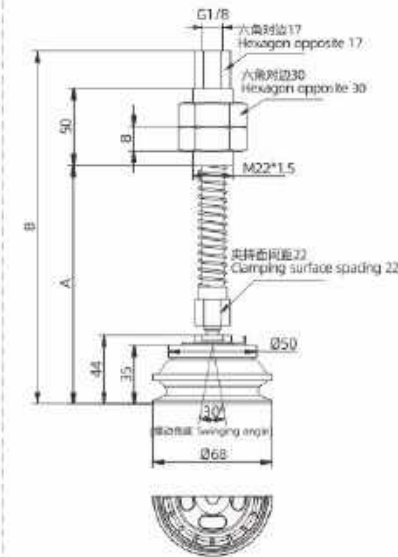
B-ZP3E-TF50BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF50BM□JB10	83	135
B-ZP3E-TF50BM□JB30	108	160
B-ZP3E-TF50BM□JB50	128	180

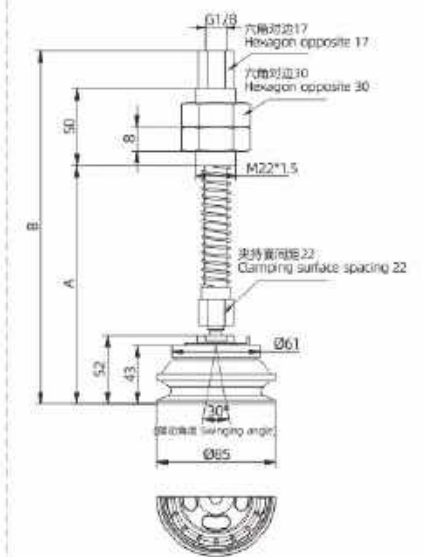
B-ZP3E-TF63BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF63BM□JB10	112	182
B-ZP3E-TF63BM□JB30	137	207
B-ZP3E-TF63BM□JB50	157	227

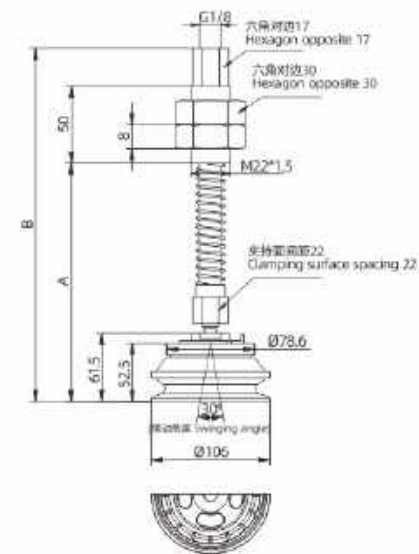
B-ZP3E-TF80BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF80BM□JB10	120	190
B-ZP3E-TF80BM□JB30	145	215
B-ZP3E-TF80BM□JB50	165	235

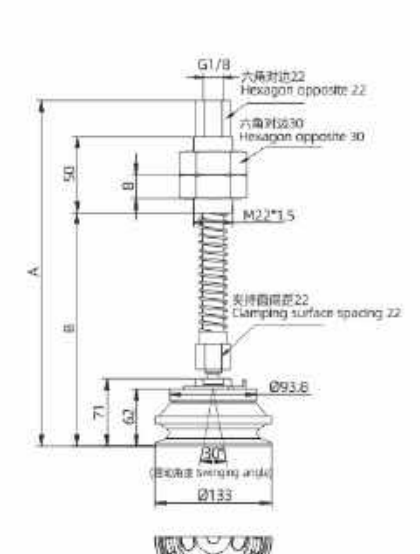
B-ZP3E-TF100BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF100BM□JB10	129.5	199.5
B-ZP3E-TF100BM□JB30	154.5	224.5
B-ZP3E-TF100BM□JB50	174.5	244.5

B-ZP3E-TF125BM□JB□



尺寸表 Dimension table

型号 Model	A	B
B-ZP3E-TF125BM□JB10	139	209
B-ZP3E-TF125BM□JB30	164	234
B-ZP3E-TF125BM□JB50	184	254

B-ZP series

Ø2, Ø4, Ø6, Ø8, Ø10, Ø13, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50

Vacuum cup - cup shape/cup size

真空吸盘 - 吸盘形状/吸盘大小

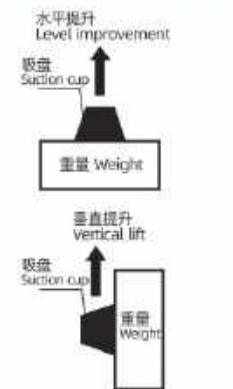


吸盘直径 Diameter of suction cup	Ø2	Ø4	Ø6	Ø8	Ø10	Ø13	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50
U (平型 Flat type)	●	●	●	●	●	●	●	●	●	●	●	●
C (平肋带肋 Flat ribbed)	-	-	-	-	●	●	●	●	●	●	●	●
G (风琴型 Organ type)	-	-	●	●	●	●	●	●	●	●	●	●

● 可供选购 Available for purchase

吸盘材料 Suction cup material:	丁腈橡胶 (黑色) nitrile rubber (black) (N)	硅橡胶 (白色) silicone rubber (white) (S)	聚氨酯橡胶 (棕色) polyurethane rubber (brown) (U)	氟化橡胶 (带绿色标记的黑色) fluorinated rubber (black with green mark) (F)
----------------------------	--------------------------------------	--------------------------------------	--------------------------------------------	----------------------------------------------------------------

吸盘水平提升力表 Suction cup horizontal lift meter



直径 D	面积 A	Ø2	Ø4	Ø6	Ø8	Ø10	Ø13	Ø16	Ø20	Ø25	Ø32
吸盘直径 Diameter of suction cup (mm)	吸盘面积 Suction cup area (cm²)	0.03	0.13	0.28	0.50	0.79	1.33	2.01	3.14	4.91	8.04
-85	0.27	1.07	2.40	4.27	6.67	11.3	17.1	26.7	41.7	68.3	
-80	0.25	1.00	2.26	4.02	6.28	10.6	16.1	25.1	39.3	64.3	
-75	0.24	0.94	2.12	3.77	5.89	10.0	15.1	23.6	36.8	60.3	
-70	0.22	0.88	1.98	3.52	5.50	9.3	14.1	22.0	34.3	56.3	
-65	0.20	0.82	1.84	3.27	5.10	8.6	13.1	20.4	31.9	52.2	
-60	0.19	0.75	1.70	3.01	4.71	8.0	12.1	18.8	29.4	48.2	
-55	0.17	0.69	1.55	2.76	4.32	7.3	11.1	17.3	27.0	44.2	
-50	0.16	0.63	1.41	2.51	3.93	6.7	10.0	15.7	24.5	40.2	
-45	0.14	0.57	1.27	2.26	3.53	6.0	9.0	14.1	22.1	36.2	
-40	0.13	0.50	1.13	2.01	3.14	5.3	8.0	12.6	19.6	32.2	

注) 吸盘水平提升力=所需提升力
Note) suction cup horizontal lifting force = required lifting force

重量×安全系数 Weight × safety factor 安全系数: 水平提升=4 垂直提升=8
Safety factor: horizontal lifting = 4 Vertical lift = 8

型号表示方式 Model representation

B-ZP 10 U N

① 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter	内径 Inner dia	直径 Diameter
Ø2	Ø2	16	Ø16
Ø4	Ø4	20	Ø20
Ø6	Ø6	25	Ø25
Ø8	Ø8	32	Ø32
Ø10	Ø10	40	Ø40
Ø13	Ø13	50	Ø50

※ 吸盘规格、工作温度等详细规格请参照规格书。
※ Detailed specifications such as suction cup specifications and working temperature are described in the specification.

② 吸盘形状 Suction cup shape

代号 Code	形状 Shape
U	平型 Flat
C	平肋带肋 Flat ribbed
B	风琴型 Organ type

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 nitrile rubber
S	硅橡胶 silicone rubber
GS	防静电硅胶 anti-static silicone
NE	导电丁腈橡胶 conductive nitrile rubber
F	氟橡胶/灰 fluoro rubber / grey
FS	防静电氟橡胶 anti-static fluoro rubber
LH	无摩擦及静电吸盘 no friction absorption electrostatic suction cup

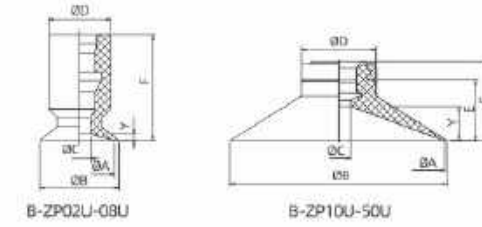
* S为防静电、防静电、防静电材料，其他材料为普通材料，请订购时注明。
* L is antistatic material, antistatic, antistatic material, other material is special material, please specify quantity, X000.

订货举例 Ordering example

- Ø10平肋带肋吸盘，真空压力为100kPa，额定提升力为10N，安全系数为4，型号为：ZP10C5 (Ø10平肋带肋吸盘安全系数为4)。
- Ø10平肋带肋吸盘，真空压力为100kPa，额定提升力为10N，安全系数为4，型号为：ZP10C5 (Ø10平肋带肋吸盘安全系数为4)。
- Ø10平肋带肋吸盘，真空压力为100kPa，额定提升力为10N，安全系数为4，型号为：ZP10C5 (Ø10平肋带肋吸盘安全系数为4)。

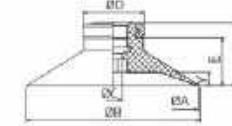
尺寸图表 Dimensional chart

平形吸盘 Flat sucker



型号 Model	ØA	ØB	ØC	ØD	E	F	Y
B-ZP02U○	2	2.6	1.2	7	-	12	0.5
B-ZP04U○	4	4.8	1.6	7	-	12	0.8
B-ZP06U○	6	7	2.5	7	-	12	0.8
B-ZP08U○	8	9	2.5	7	-	12	1
B-ZP10U○	10	12	4	13	7.7	12	3
B-ZP13U○	13	15	4	13	7.7	12	3
B-ZP16U○	16	18	4	13	8.2	12.5	3.5
B-ZP20U○	20	23	4	15	9.5	14	4
B-ZP25U○	25	28	4	15	9.5	14	4
B-ZP32U○	32	35	4	15	10	14.5	4.5
B-ZP40U○	40	43	7	18	13.7	18.5	6.5
B-ZP50U○	50	53	7	18	14.7	19.5	6.5

平形带肋吸盘 Flat ribbed sucker B-ZP10C~50C



型号 Model	ØA	ØB	ØC	ØD	E	F	Y
B-ZP10C○	10	12	4	13	7.7	12	1.7
B-ZP13C○	13	15	4	13	7.7	12	1.8
B-ZP16C○	16	18	4	13	8.2	12.5	1.2
B-ZP20C○	20	23	4	15	9.5	14	1.7
B-ZP25C○	25	28	4	15	9.5	14	1.8
B-ZP32C○	32	35	4	15	10	14.5	2.3
B-ZP40C○	40	43	7	18	13.7	18.5	3.3
B-ZP50C○	50	53	7	18	14.7	19.5	3.8

风琴形吸盘 Organ shaped sucker B-ZP10B~40B○



型号 Model	ØA	ØB	ØC	ØD	ØK	ØL	ØY
B-ZP06B○	6	7	2.5	13	3.3	9.1	4
B-ZP08B○	8	9	2.5	13	4.7	10.1	4
B-ZP10B○	10	12	2.5	16	5.5	13.8	5.5
B-ZP13B○	13	15	2.5	18.5	8.7	19	7.5
B-ZP16B○	16	18	2.5	20.8	9.9	21	8.5
B-ZP20B○	20	22	3.5	23.5	12.4	25	10.5
B-ZP25B○	25	27	3.5	24	15.6	28	10.5
B-ZP32B○	32	34	3.5	29	18.9	37	14
B-ZP40B○	40	43	9	34	24	48	16
B-ZP50B○	50	53	9	38	33.4	57.5	18.8

B-ZPT series

Ø2~Ø8, Ø10~Ø16, Ø20~Ø32, Ø40~Ø50

Vertical vacuum nozzle type-Without buffer

U(平型 Flat type)
C(平型带肋 Flat ribbed)
B(扁琴型 Organ type)

垂直真空接管型-不带缓冲



- 接管方式: 外螺纹
- 真空入口: 垂直方向
- 安装连接方式: 利用真空接管
- Connection mode: external thread
- Vacuum inlet: vertical direction
- Installation and connection mode: use vacuum connection pipe



- 接管方式: 内螺纹
- 真空入口: 垂直方向
- 安装连接方式: 利用真空接管
- Connection mode: internal thread
- Vacuum inlet: vertical direction
- Installation and connection mode: use vacuum connection pipe

型号表示方式 Model representation

B-ZPT 02 U N - A5 - PEEK

请参照吸盘型号B-ZP系列之外型尺寸图
Please refer to the dimension drawing of suction cup model B-ZP series

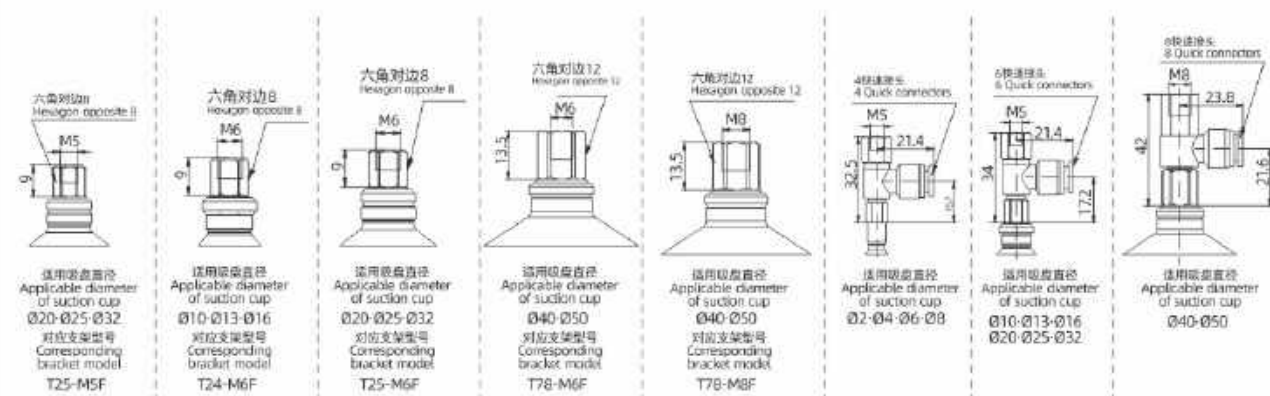
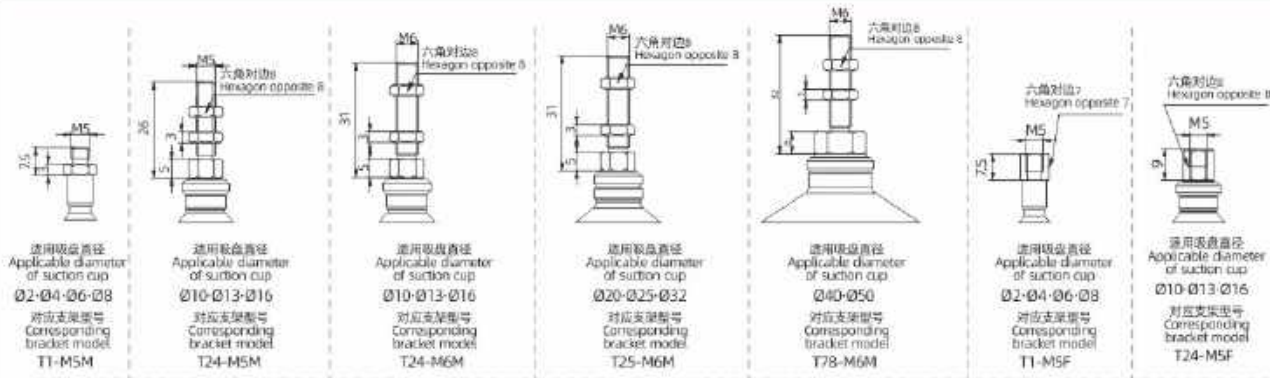
真空入口
(见右表)
Vacuum inlet
(see right table)

无痕吸附处理
(详情参阅B-PC尺寸图)
Traceless adsorption treatment
(Please refer to B-PC dimension diagram for details)

代码 Code	真空口螺纹 Vacuum inlet thread	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
A5	M5x0.8	●	●	-	-
A6	M6x1	●	●	●	●
B5	M5x0.8	●	●	●	-
B6	M6x1	-	●	●	●
B8	M8x1.25	-	-	●	●

(●-可供选择指示 Optional indication)

尺寸图表 Dimensional chart



Ø2~Ø8, Ø10~Ø16, Ø20~Ø32

Vertical vacuum nozzle type-With buffer

J(旋转型 Rotary type)
K(不旋转型 Non rotating type)

垂直真空接管型-带缓冲



- 接管方式: 外螺纹
- 真空入口: 垂直方向
- 安装连接方式: 缓冲外部
- Connection mode: external thread
- Vacuum inlet: vertical direction
- Installation and connection mode: Buffer outside

型号表示方式 Model representation

B-ZPT 02 U N J 6 - B5 - A8 - PEEK

真空引出方向
Vacuum outlet direction
FOR Code
T 垂直 Vertical
R 水平 Horizontal

请参照吸盘型号B-ZP系列之外型尺寸图
Please refer to the dimension drawing of suction cup model B-ZP series

真空入口
(见右表)
Vacuum inlet
(see right table)

码位
(见右表)
Code point
(see right table)

无痕吸附处理
(详情参阅B-PC尺寸图)
Traceless adsorption treatment
(Please refer to B-PC dimension diagram for details)

缓冲 Buffer

代号 Sign	缓冲 Buffer
6	缓冲行程6mm (Ø2-Ø8吸盘适用) Buffer stroke 6mm (applicable to Ø2-Ø8 sucker)
10	缓冲行程10mm (Ø2-Ø50吸盘适用) Buffer stroke 10mm (applicable to Ø2-Ø50 sucker)
15	缓冲行程15mm (Ø2-Ø8吸盘适用) Buffer stroke 15mm (applicable to Ø2-Ø8 sucker)
20	缓冲行程20mm (Ø10-Ø50吸盘适用) Buffer stroke 20mm (applicable to Ø10-Ø50 sucker)
25	缓冲行程25mm (Ø2-Ø8吸盘适用) Buffer stroke 25mm (applicable to Ø2-Ø8 sucker)
30	缓冲行程30mm (Ø10-Ø50吸盘适用) Buffer stroke 30mm (applicable to Ø10-Ø50 sucker)
40	缓冲行程40mm (Ø10-Ø32吸盘适用) Buffer stroke 40mm (applicable to Ø10-Ø32 sucker)
50	缓冲行程50mm (Ø10-Ø50吸盘适用) Buffer stroke 50mm (applicable to Ø10-Ø50 sucker)

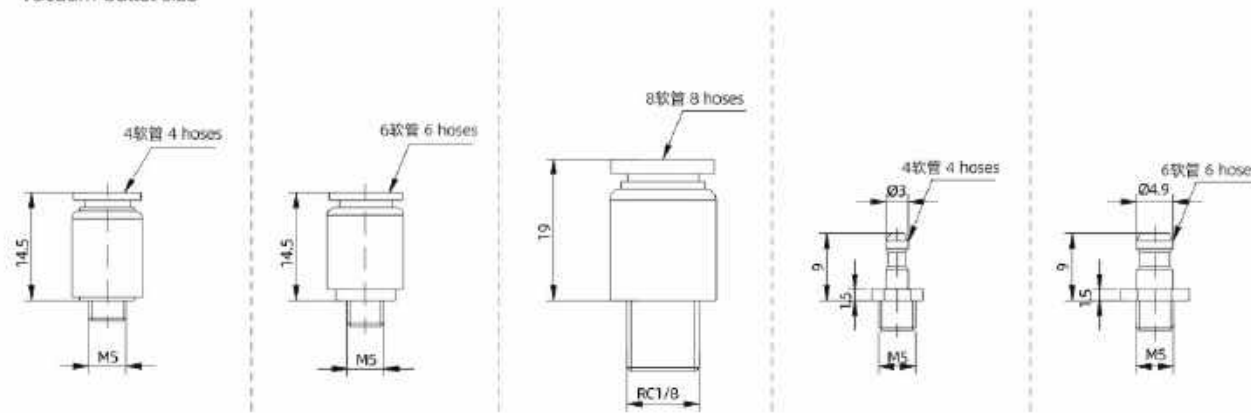
缓冲规格(☆)
Buffer specification(☆)
J 可回转 Rotatable
K 不可回转 No turning

代码 Code	真空口螺纹 Vacuum inlet thread	Ø2~Ø8	Ø10~Ø16	Ø20~Ø32	Ø40~Ø50
B5	M5x0.8	●	●	●	●
B01	1/8	-	-	-	●
N4	Ø4尼龙管 Nylon tube	●	-	-	-
N6	Ø6尼龙管 Nylon tube	-	●	-	-
U6	Ø6PU软管 PU hose	-	●	●	●
A8	M8x1	●	-	-	-
A10	M10x1	-	●	●	-
A14	M14x1	-	-	-	●

(●-可供选择指示 Optional indication)

尺寸图表 Dimensional chart

真空进出口尺寸
Vacuum outlet size

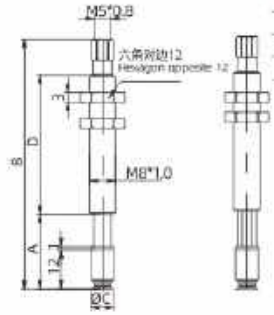


安装用连接器型号 Connector model for installation

B-ZPT02U-08U

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
6	LT0220-6	LTK0220-6
10	LT0220-10	LTK0220-10
15	LT0220-15	LTK0220-15
25	LT0220-25	LTK0220-25



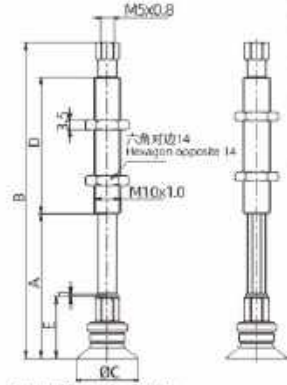
尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT02U□□6-B5-A8	19.5	45.5	2.6	15	43
B-ZPT02U□□10-B5-A8	23	77			
B-ZPT02U□□15-B5-A8	28	82			
B-ZPT02U□□25-B5-A8	38	92			
B-ZPT04U□□6-B5-A8	19.5	45.5	4.8	15	43
B-ZPT04U□□10-B5-A8	23	77			
B-ZPT04U□□15-B5-A8	28	82			
B-ZPT04U□□25-B5-A8	38	92			
B-ZPT06U□□6-B5-A8	19.5	45.5	7	15	43
B-ZPT06U□□10-B5-A8	23	77			
B-ZPT06U□□15-B5-A8	28	82			
B-ZPT06U□□25-B5-A8	38	92			
B-ZPT08U□□6-B5-A8	19.5	45.5	9	15	43
B-ZPT08U□□10-B5-A8	23	77			
B-ZPT08U□□15-B5-A8	28	82			
B-ZPT08U□□25-B5-A8	38	92			

B-ZPT10U-16C/10C-16C

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
10	LT1030A-10	LTK1030A-10
20	LT1030A-20	LTK1030A-20
30	LT1030A-30	LTK1030A-30
40	LT1030A-40	LTK1030A-40
50	LT1030A-50	LTK1030A-50



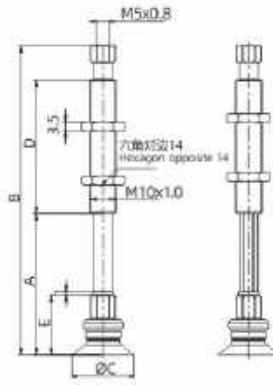
尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT10□□□□10-B5-A10	32.5	68.5	12	23	21
B-ZPT10□□□□20-B5-A10	42.5	106.5			
B-ZPT10□□□□30-B5-A10	52.5	116.5			
B-ZPT10□□□□40-B5-A10	62.5	152.5			
B-ZPT10□□□□50-B5-A10	72.5	162.5	15	23	21
B-ZPT13□□□□10-B5-A10	32.5	68.5			
B-ZPT13□□□□20-B5-A10	42.5	106.5			
B-ZPT13□□□□30-B5-A10	52.5	116.5			
B-ZPT13□□□□40-B5-A10	62.5	152.5	18	23	21.5
B-ZPT13□□□□50-B5-A10	72.5	162.5			
B-ZPT16□□□□10-B5-A10	33	69			
B-ZPT16□□□□20-B5-A10	43	107			
B-ZPT16□□□□30-B5-A10	53	117	77	21.5	
B-ZPT16□□□□40-B5-A10	63	153			
B-ZPT16□□□□50-B5-A10	73	163			

B-ZPT20U-32U/20C-32C

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
10	LT1030B-10	LTK1030B-10
20	LT1030B-20	LTK1030B-20
30	LT1030B-30	LTK1030B-30
40	LT1030B-40	LTK1030B-40
50	LT1030B-50	LTK1030B-50



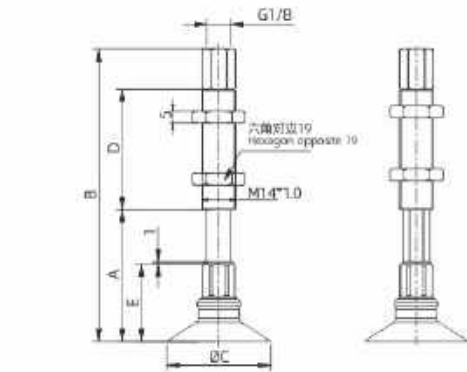
尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT20□□□□10-B5-A10	34.5	70.5	23	23	23
B-ZPT20□□□□20-B5-A10	44.5	108.5			
B-ZPT20□□□□30-B5-A10	54.5	118.5			
B-ZPT20□□□□40-B5-A10	64.5	154.5			
B-ZPT20□□□□50-B5-A10	74.5	164.5	28	23	23
B-ZPT25□□□□10-B5-A10	34.5	70.5			
B-ZPT25□□□□20-B5-A10	44.5	108.5			
B-ZPT25□□□□30-B5-A10	54.5	118.5			
B-ZPT25□□□□40-B5-A10	64.5	154.5	77	23	23.5
B-ZPT25□□□□50-B5-A10	74.5	164.5			
B-ZPT32□□□□10-B5-A10	35	71			
B-ZPT32□□□□20-B5-A10	45	109			
B-ZPT32□□□□30-B5-A10	55	119	35	51	
B-ZPT32□□□□40-B5-A10	65	155			
B-ZPT32□□□□50-B5-A10	75	165			

B-ZPT40U/C-50U/C

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
10	LT3060-10	LTK3060-10
20	LT3060-20	LTK3060-20
30	LT3060-30	LTK3060-30
40	LT3060-40	LTK3060-40
50	LT3060-50	LTK3060-50



尺寸表 Dimension table

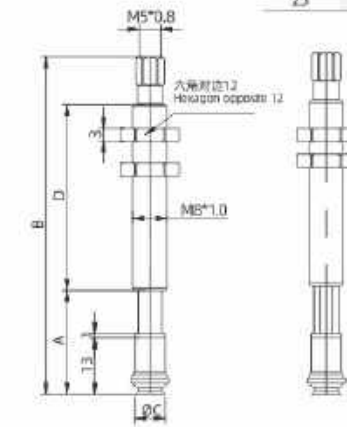
型号 Model	A	B	C	D	E
B-ZPT40□□□□10-B01-A14	44	110.5	43	50	32
B-ZPT40□□□□20-B01-A14	54.5	121			
B-ZPT40□□□□30-B01-A14	64	130.5			
B-ZPT40□□□□50-B01-A14	83.5	175			
B-ZPT50□□□□10-B01-A14	45	111.5	53	50	33
B-ZPT50□□□□20-B01-A14	55.5	122			
B-ZPT50□□□□30-B01-A14	65	131.5			
B-ZPT50□□□□50-B01-A14	84.5	176			

安装用连接器型号 Connector model for installation

B-ZPT06B-08B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
6	LT0220-6	LTK0220-6
10	LT0220-10	LTK0220-10
15	LT0220-15	LTK0220-15
25	LT0220-25	LTK0220-25



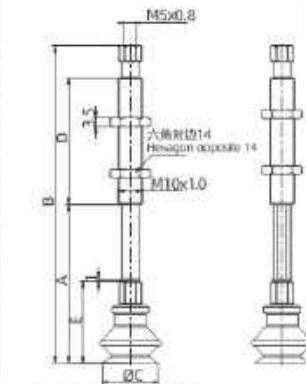
尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT06B□□6-B5-A8	20.5	46.5	7	15	43
B-ZPT06B□□10-B5-A8	24	78			
B-ZPT06B□□15-B5-A8	29	83			
B-ZPT06B□□25-B5-A8	39	93			
B-ZPT08B□□6-B5-A8	20.5	46.5	9	15	43
B-ZPT08B□□10-B5-A8	24	78			
B-ZPT08B□□15-B5-A8	29	83			
B-ZPT08B□□25-B5-A8	39	93			

B-ZPT10B-16B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
10	LT1030A-10	LTK1030A-10
20	LT1030A-20	LTK1030A-20
30	LT1030A-30	LTK1030A-30
40	LT1030A-40	LTK1030A-40
50	LT1030A-50	LTK1030A-50



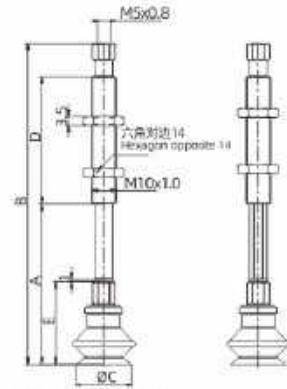
尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT10B□□□□10-B5-A10	36.5	72.5	12	23	25
B-ZPT10B□□□□20-B5-A10	46.5	110.5			
B-ZPT10B□□□□30-B5-A10	56.5	120.5			
B-ZPT10B□□□□40-B5-A10	66.5	156.5			
B-ZPT10B□□□□50-B5-A10	76.5	166.5	15	23	27.5
B-ZPT13B□□□□10-B5-A10	39	75			
B-ZPT13B□□□□20-B5-A10	49	113			
B-ZPT13B□□□□30-B5-A10	59	123			
B-ZPT13B□□□□40-B5-A10	69	159	77	23	29
B-ZPT13B□□□□50-B5-A10	79	169			
B-ZPT16B□□□□10-B5-A10	40.5	76.5			
B-ZPT16B□□□□20-B5-A10	50.5	114.5			
B-ZPT16B□□□□30-B5-A10	60.5	124.5	18	51	
B-ZPT16B□□□□40-B5-A10	70.5	160.5			
B-ZPT16B□□□□50-B5-A10	80.5	170.5			

B-ZPT20B-32B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
10	LT1030B-10	LTK1030B-10
20	LT1030B-20	LTK1030B-20
30	LT1030B-30	LTK1030B-30
40	LT1030B-40	LTK1030B-40
50	LT1030B-50	LTK1030B-50



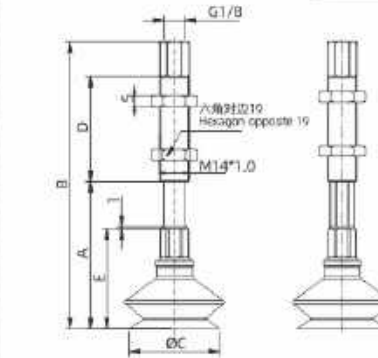
尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT20B□□□□10-B5-A10	44	80	23	23	32.5
B-ZPT20B□□□□20-B5-A10	54	118			
B-ZPT20B□□□□30-B5-A10	64	128			
B-ZPT20B□□□□40-B5-A10	74	164			
B-ZPT20B□□□□50-B5-A10	84	174	28	23	33
B-ZPT25B□□□□10-B5-A10	44.5	80.5			
B-ZPT25B□□□□20-B5-A10	54.5	118.5			
B-ZPT25B□□□□30-B5-A10	64.5	128.5			
B-ZPT25B□□□□40-B5-A10	74.5	164.5	77	23	38
B-ZPT25B□□□□50-B5-A10	84.5	174.5			
B-ZPT32B□□□□10-B5-A10	49.5	85.5			
B-ZPT32B□□□□20-B5-A10	59.5	123.5			
B-ZPT32B□□□□30-B5-A10	69.5	133.5	35	51	
B-ZPT32B□□□□40-B5-A10	79.5	169.5			
B-ZPT32B□□□□50-B5-A10	89.5	179.5			

B-ZPT40B-50B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可拆卸型号 removable model	不可拆卸型号 non-removable model
10	LT3060-10	LTK3060-10
20	LT3060-20	LTK3060-20
30	LT3060-30	LTK3060-30
40	LT3060-40	LTK3060-40
50	LT3060-50	LTK3060-50



尺寸表 Dimension table

型号 Model	A	B	C	D	E
B-ZPT40B□□□□10-B01-A14	59.5	126	43	50	47.5
B-ZPT40B□□□□20-B01-A14	70	136.5			
B-ZPT40B□□□□30-B01-A14	79.5	146			
B-ZPT40B□□□□50-B01-A14	99	190.5			
B-ZPT50B□□□□10-B01-A14	63.5	130	53	50	51.5
B-ZPT50B□□□□20-B01-A14	74	140.5			
B-ZPT50B□□□□30-B01-A14	83.5	150			
B-ZPT50B□□□□50-B01-A14	103	194.5			

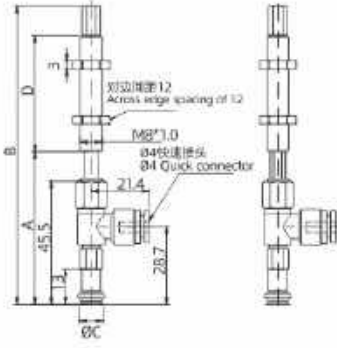
B-ZPR series

安装用连接器型号 Connector model for installation

B-ZPR06B~08B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
6	LR0220-6-04	LRK0220-6-04
10	LR0220-10-04	LRK0220-10-04
15	LR0220-15-04	LRK0220-15-04
25	LR0220-25-04	LRK0220-25-04



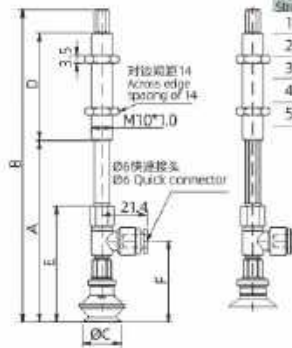
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZPR06B□□□□6-04-A8	53	79	7	15
B-ZPR06B□□□□10-04-A8	56.5	110.5		43
B-ZPR06B□□□□15-04-A8	61.5	115.5	9	43
B-ZPR06B□□□□25-04-A8	71.5	125.5		
B-ZPR08B□□□□6-04-A8	53	79	7	15
B-ZPR08B□□□□10-04-A8	56.5	110.5		43
B-ZPR08B□□□□15-04-A8	61.5	115.5	9	43
B-ZPR08B□□□□25-04-A8	71.5	125.5		

B-ZPR10B~16B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
10	LR1030A-10-06	LRK1030A-10-06
20	LR1030A-20-06	LRK1030A-20-06
30	LR1030A-30-06	LRK1030A-30-06
40	LR1030A-40-06	LRK1030A-40-06
50	LR1030A-50-06	LRK1030A-50-06



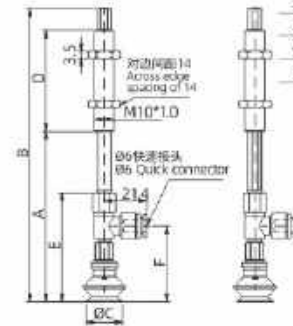
尺寸表 Dimension table

型号 Model	A	B	C	D	E	F
B-ZPR10B□□□□10-06-A10	61	95	12	23	25	33.2
B-ZPR10B□□□□20-06-A10	71	133		51		
B-ZPR10B□□□□30-06-A10	81	143	15	77	27.5	35.7
B-ZPR10B□□□□40-06-A10	91	179				
B-ZPR10B□□□□50-06-A10	101	189	18	77	29	37.2
B-ZPR13B□□□□10-06-A10	63.5	97.5				
B-ZPR13B□□□□20-06-A10	73.5	135.5	15	77	27.5	35.7
B-ZPR13B□□□□30-06-A10	83.5	145.5				
B-ZPR13B□□□□40-06-A10	93.5	181.5	18	77	29	37.2
B-ZPR13B□□□□50-06-A10	103.5	191.5				
B-ZPR16B□□□□10-06-A10	65	99	12	77	25	33.2
B-ZPR16B□□□□20-06-A10	75	137				
B-ZPR16B□□□□30-06-A10	85	147	15	77	27.5	35.7
B-ZPR16B□□□□40-06-A10	95	183				
B-ZPR16B□□□□50-06-A10	105	193	18	77	29	37.2
B-ZPR20B□□□□10-06-A10	75	137				

B-ZPR20B~32B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
10	LR1030B-10-06	LRK1030B-10-06
20	LR1030B-20-06	LRK1030B-20-06
30	LR1030B-30-06	LRK1030B-30-06
40	LR1030B-40-06	LRK1030B-40-06
50	LR1030B-50-06	LRK1030B-50-06



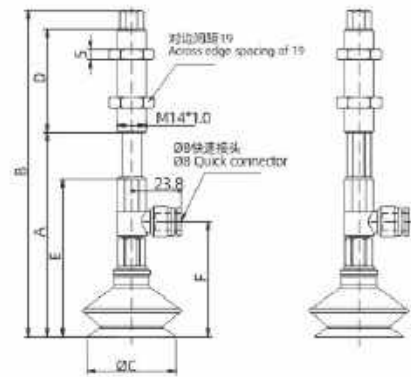
尺寸表 Dimension table

型号 Model	A	B	C	D	E	F
B-ZPR20B□□□□10-06-A10	68.5	102.5	23	51	32.5	40.7
B-ZPR20B□□□□20-06-A10	78.5	140.5				
B-ZPR20B□□□□30-06-A10	88.5	150.5	28	77	33	41.2
B-ZPR20B□□□□40-06-A10	99	187				
B-ZPR20B□□□□50-06-A10	108.5	196.5	35	77	38	46.2
B-ZPR25B□□□□10-06-A10	69	103				
B-ZPR25B□□□□20-06-A10	79	141	28	77	33	41.2
B-ZPR25B□□□□30-06-A10	89	151				
B-ZPR25B□□□□40-06-A10	99.5	187.5	35	77	38	46.2
B-ZPR25B□□□□50-06-A10	109	197				
B-ZPR32B□□□□10-06-A10	74	108	23	77	33	41.2
B-ZPR32B□□□□20-06-A10	84	146				
B-ZPR32B□□□□30-06-A10	94	156	28	77	33	41.2
B-ZPR32B□□□□40-06-A10	104.5	192.5				
B-ZPR32B□□□□50-06-A10	114	202	35	77	38	46.2
B-ZPR40B□□□□10-06-A10	79	141				

B-ZPR40B~50B

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
10	LR3060-10-08	LRK3060-10-08
20	LR3060-20-08	LRK3060-20-08
30	LR3060-30-08	LRK3060-30-08
50	LR3060-50-08	LRK3060-50-08



尺寸表 Dimension table

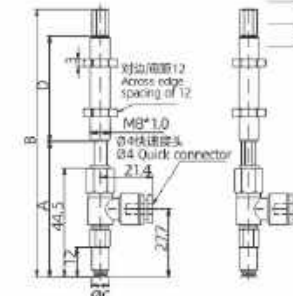
型号 Model	A	B	C	D	E	F
B-ZPR40B□□□□10-08-A14	88.5	147.5	43	50	47.5	55.5
B-ZPR40B□□□□20-08-A14	98.5	157.5				
B-ZPR40B□□□□30-08-A14	108	167	53	75	51.5	59.5
B-ZPR40B□□□□50-08-A14	127.5	211.5				
B-ZPR50B□□□□10-08-A14	92.5	151.5	43	50	47.5	55.5
B-ZPR50B□□□□20-08-A14	102.5	161.5				
B-ZPR50B□□□□30-08-A14	112	171	53	75	51.5	59.5
B-ZPR50B□□□□50-08-A14	131.5	215.5				

安装用连接器型号 Connector model for installation

B-ZPR02U~08U

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
6	LR0220-6-04	LRK0220-6-04
10	LR0220-10-04	LRK0220-10-04
15	LR0220-15-04	LRK0220-15-04
25	LR0220-25-04	LRK0220-25-04



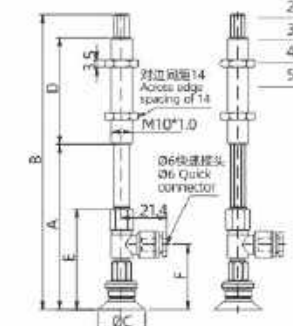
尺寸表 Dimension table

型号 Model	A	B	C	D
B-ZPR02U□□□□6-04-AB	52.5	78.5	2.6	15
B-ZPR02U□□□□10-04-AB	55.5	109.5		43
B-ZPR02U□□□□15-04-AB	60.5	114.5	4.8	43
B-ZPR02U□□□□25-04-AB	70.5	124.5		
B-ZPR04U□□□□6-04-AB	52.5	78.5	7	15
B-ZPR04U□□□□10-04-AB	55.5	109.5		43
B-ZPR04U□□□□15-04-AB	60.5	114.5	9	43
B-ZPR04U□□□□25-04-AB	70.5	124.5		
B-ZPR06U□□□□6-04-AB	52.5	78.5	7	15
B-ZPR06U□□□□10-04-AB	55.5	109.5		43
B-ZPR06U□□□□15-04-AB	60.5	114.5	9	43
B-ZPR06U□□□□25-04-AB	70.5	124.5		
B-ZPR08U□□□□6-04-AB	52.5	78.5	9	15
B-ZPR08U□□□□10-04-AB	55.5	109.5		43
B-ZPR08U□□□□15-04-AB	60.5	114.5	9	43
B-ZPR08U□□□□25-04-AB	70.5	124.5		

B-ZPR10U~16C/10C~16C

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
10	LR1030A-10-06	LRK1030A-10-06
20	LR1030A-20-06	LRK1030A-20-06
30	LR1030A-30-06	LRK1030A-30-06
40	LR1030A-40-06	LRK1030A-40-06
50	LR1030A-50-06	LRK1030A-50-06



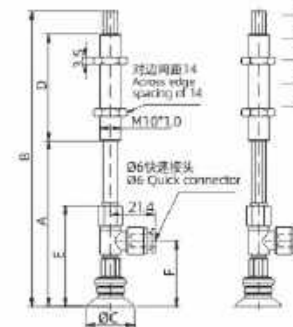
尺寸表 Dimension table

型号 Model	A	B	C	D	E	F
B-ZPR10□□□□10-06-A10	57	91	12	23	21	29.2
B-ZPR10□□□□20-06-A10	67	129		51		
B-ZPR10□□□□30-06-A10	77	139	15	77	21	29.2
B-ZPR10□□□□40-06-A10	87	175				
B-ZPR10□□□□50-06-A10	97	185	18	77	21.5	29.7
B-ZPR13□□□□10-06-A10	57	91				
B-ZPR13□□□□20-06-A10	67	129	15	77	21	29.2
B-ZPR13□□□□30-06-A10	77	139				
B-ZPR13□□□□40-06-A10	87	175	18	77	21.5	29.7
B-ZPR13□□□□50-06-A10	97	185				
B-ZPR16□□□□10-06-A10	57.5	91.5	12	23	21	29.2
B-ZPR16□□□□20-06-A10	67.5	129.5		51		
B-ZPR16□□□□30-06-A10	77.5	139.5	15	77	21	29.2
B-ZPR16□□□□40-06-A10	87.5	175.5				
B-ZPR16□□□□50-06-A10	97.5	185.5	18	77	21.5	29.7
B-ZPR16□□□□60-06-A10	107.5	195.5				

B-ZPR20U~32U/20C~32C

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
10	LR1030B-10-06	LRK1030B-10-06
20	LR1030B-20-06	LRK1030B-20-06
30	LR1030B-30-06	LRK1030B-30-06
40	LR1030B-40-06	LRK1030B-40-06
50	LR1030B-50-06	LRK1030B-50-06



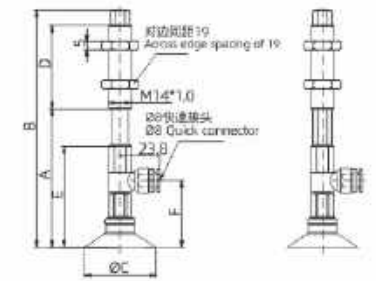
尺寸表 Dimension table

型号 Model	A	B	C	D	E	F
B-ZPR20□□□□10-06-A10	59	93	23	51	23	31.2
B-ZPR20□□□□20-06-A10	69	131				
B-ZPR20□□□□30-06-A10	79	141	28	77	23	31.2
B-ZPR20□□□□40-06-A10	89	177				
B-ZPR20□□□□50-06-A10	99	187	35	77	23.5	31.7
B-ZPR25□□□□10-06-A10	59	93				
B-ZPR25□□□□20-06-A10	69	131	28	77	23	31.2
B-ZPR25□□□□30-06-A10	79	141				
B-ZPR25□□□□40-06-A10	89	177	35	77	23.5	31.7
B-ZPR25□□□□50-06-A10	99	187				
B-ZPR32□□□□10-06-A10	59.5	93.5	23	51	23	31.2
B-ZPR32□□□□20-06-A10	69.5	131.5				
B-ZPR32□□□□30-06-A10	79.5	141.5	28	77	23	31.2
B-ZPR32□□□□40-06-A10	89.5	177.5				
B-ZPR32□□□□50-06-A10	99.5	187.5	35	77	23.5	31.7
B-ZPR32□□□□60-06-A10	109.5	197.5				

B-ZPR40U/C~50U/C

对应缓冲托架型号
Corresponding buffer bracket model

行程 Stroke	可回装型号 Reusing model	不可回装型号 Non reusable models
10	LR3060-10-08	LRK3060-10-08
20	LR3060-20-08	LRK3060-20-08
30	LR3060-30-08	LRK3060-30-08
50	LR3060-50-08	LRK3060-50-08



尺寸表 Dimension table

型号 Model	A	B	C	D	E	F
B-ZPR40□□□□10-08-A14	73	132	43	50	32	40
B-ZPR40□□□□20-08						

B-PK series

Ø6, Ø8, Ø10, Ø13, Ø16, Ø20, Ø25, Ø32

Resin accessories

树脂附件

工件上不会残留吸着痕（橡胶成份）
There will be no suction marks left on the workpiece (rubber composition)

- 因为风琴型的橡胶吸盘上安装有PEEK材质的附件，故可规避工件与橡胶材之间的接触，防止橡胶成份的溢出。
- Because the rubber sucker of organ type is equipped with PEEK material accessories, it can avoid the contact between the workpiece and the rubber material and prevent the overflow of rubber components.

工件上附着吸盘橡胶成份。
The rubber component of suction cup is attached to the workpiece.

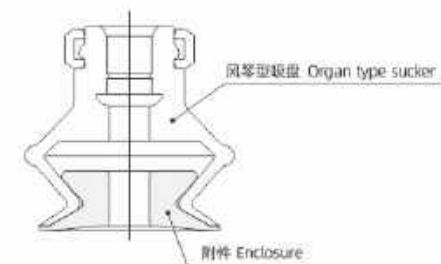
ZP系列风琴型（Ø6~Ø32）上最适用。
ZP series organ type (Ø 6 ~ Ø 32) is the most suitable.



型号表示方式 Model representation



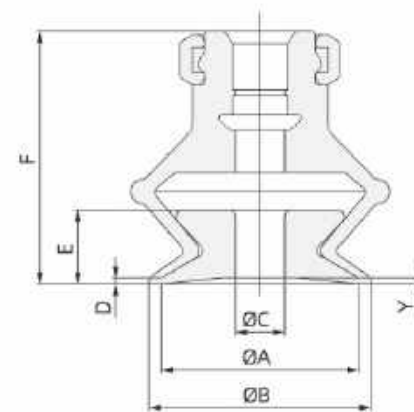
订货方法（与吸盘同时订货の場合） Ordering method (when ordering with sucker)



- 与吸盘同时订货の場合，根据下记要领，在吸盘型号的下面标注*并记。另外，出厂时未组装，请了解。
- 附件仅可在本公司标准品风琴型吸盘上安装，请注意。
- 附件为导电性PEEKの場合，吸盘也要使用导电性材质。
- When ordering with suction cup at the same time, mark * under the suction cup model according to the following key points. In addition, it is not assembled at the factory, please understand.
- Accessories can only be installed on our standard organ type sucker, please note.
- When the accessories are conductive peek, the sucker should also use conductive material.

订货例 Ordering example B-ZPT06BNJ10-B5-A8 ← 风琴型吸盘的型号 The model of organ type sucker
 * B-ZP2-06KP ← 树脂附件的型号 Model of resin accessories

尺寸图表 Dimensional chart



尺寸表 Dimension table

型号 Model	适合吸盘 Suitable for sucker	A	B	C	D	E	F	Y
B-ZP2-06K ■	B-ZP06B □	6	7	1.6	0.5	3	13.5	0.5
B-ZP2-08K ■	B-ZP08B □	8	9	3				
B-ZP2-10K ■	B-ZP10B □	10	12	3.5	1	5.5	19	1
B-ZP2-13K ■	B-ZP13B □	13	15	4				
B-ZP2-16K ■	B-ZP16B □	16	18	8	1	6	20.5	1
B-ZP2-20K ■	B-ZP20B □	20	22			8		
B-ZP2-25K ■	B-ZP25B □	25	27	10	1	8.5	24.5	1
B-ZP2-32K ■	B-ZP32B □	32	34			10		

注1) 表中■表示附件材质。Note 1) in the table, ■ refers to the material of accessories.
 注2) 表中□表示吸盘材质。Note 2) in the table, □ indicates the material of sucker.

《注意事项》

附件使用前,必须先进行洗净。
 本产品经加工后并没有进行洗净。故如果在出厂状态下使用时可能会在工件上留下残留物。使用前,请进行适当的洗净。
 如有不明,请与本公司联系。

Notes

Accessories must be cleaned before use.
 This product is not cleaned after processing. Therefore, if it is used in the factory, it may leave residue on the workpiece. Please wash properly before use.
 If you have any questions, please contact us.

- 与硬质材料接触可能会出现问题的场合,请勿使用。
- Do not use when contacting with hard materials which may cause problems.
- PEEK材质及其切削加工品为输出贸易管理条例的对象品。
- PEEK material and its cutting products are the objects of export trade regulations.

MEMO

B-VP series

真空吸盘

Vacuum suction cup

- 073 · B-VP-P 薄板用真空吸盘 Vacuum sucker for thin objects
- 075 · B-VP-R 标准吸盘标准型 Vacuum sucker standard
- 081 · B-VP-A 真空吸盘深凹型 Vacuum suction cup deep concave type
- 083 · B-VP-B 波纹管真空吸盘 Bellows type vacuum sucker
- 087 · B-VP-E 椭圆形真空吸盘 Elliptical vacuum sucker
- 091 · B-VP-L 楔形真空吸盘 Vacuum sucker for thin objects
- 093 · B-VP-LB 柔性波纹管真空吸盘 Flexible bellows vacuum sucker
- 095 · B-VP-S 海绵真空吸盘 Sponge type vacuum suction cup
- 097 · SR 轻真空吸盘 Rippled light vacuum suction cup



B-VP-P series

Ø8, Ø10, Ø15, Ø20

Vacuum sucker for thin objects - Vacuum sucker with quick coupling

薄物用型真空吸盘 -带快速接头真空吸盘

P(薄物用型 Thin material type)

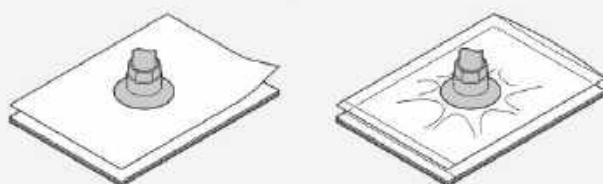


特性 Characteristic

- 最适合于输送薄的制品，如纸、乙烯片材。
- 由于舌片制得更薄，不仅提高了与制品的粘附，而且重叠粘附降低到最小。
- 吸盘直径: Ø8mm到Ø20mm → 吸盘托架形状: 5种
- It is most suitable for conveying thin products, such as paper and vinyl sheet.
- Because the tongue piece is thinner, the adhesion with the product is improved, and the overlapping adhesion is minimized.
- Diameter of suction cup: Ø8mm to Ø20mm → Sucker bracket shape: 5 kinds

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

- 通过改变材质使得吸盘托架更加小型化，并且重量更轻。
- 现有的吸盘托架(A、B、C和D型)尺寸进一步缩小，以达到节约空间的目的。
- 与以往不同的是，更换吸盘时不必再拆吸盘托架从设备上取下来了。
- 吸盘直径: Ø8mm到Ø20mm → 吸盘托架形状: 5种
- 吸盘的材料: 亚硝橡胶、氟橡胶
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A, B, C and D) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Diameter of suction cup: Ø8mm to Ø20mm → Sucker bracket shape: 5 kinds
- Materials of suction cup: nitrile rubber, fluororubber



型号表示方式 Model representation

B-VPA 10 P N 6J

① 吸盘托架的类型
Types of suction cup bracket

② 吸盘直径
Suction cup diameter

代码 Code	直径 Diameter	英寸英寸 Inches
8	Ø8	0.31in
10	Ø10	0.39in
15	Ø15	0.59in
20	Ø20	0.79in

③ 吸盘形状
Suction cup shape

代码 Code	形状 Shape	薄物用型 Thin material type
P	薄物用型	是

④ 吸盘材质
Suction cup Material

字母 Letter	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	聚氨酯橡胶 Polyurethane rubber
F	氟橡胶/氟 氟橡胶/氟 Fluoro rubber / grey
PS	氟硅橡胶 Fluoro silicone rubber
LH	无氟防粘剂效果 No fluorine adhesion countermeasure

⑤ 接头尺寸和形状
Joint size and shape

代码 Code	接头尺寸 Joint size	接头形状 Joint shape	接头间距 (L) (mm)
4J	Ø8-Ø20	快速接头 Quick coupling	4x2.5(mm)

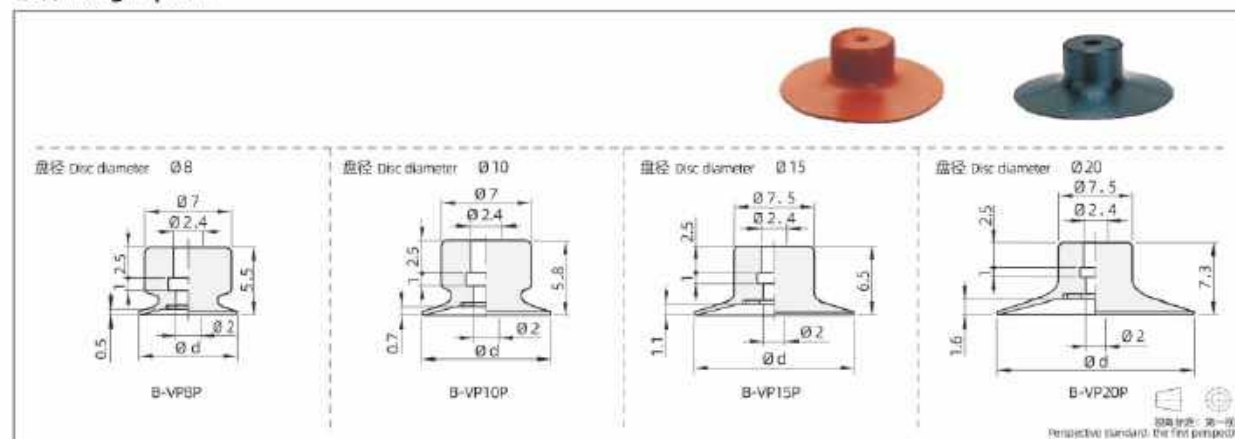
※ 排沙结构 - 工件轻重控制强， suctioning lips fixures, the operation of the workpiece is strengthened.

* N为防静电型，防静电，材料为防静电，起订量：100个。
* N is a standard model, static electricity, other material is special material, starting order quantity: 100pcs.

吸盘直径: Ø8-Ø20 吸盘形状: 薄物用型
Suction cup diameter: Ø8-Ø20 Suction cup shape: Thin material type

薄物用型真空吸盘(单件/组件) Vacuum sucker for thin objects (single piece / component)

单件 Single piece



直径 Disc diameter	订购型号 Order model
8	B-VP8P□
10	B-VP10P□
15	B-VP15P□
20	B-VP20P□

组件 Components



代号 Code	类型 Type	接管方式 Mode of taking over
B-VPA	固定式顶部真空端口 Fixed top vacuum port	快速接头型 Quick coupling type
B-VPC	弹簧式顶部真空端口 Spring top vacuum port	快速接头型 Quick coupling type
B-VPD	弹簧式侧面真空端口 Spring type side vacuum port	快速接头型 Quick coupling type
B-VPF	弹簧式直接安装型 Spring type direct mount type	螺纹型 Screw thread type

固定式顶部真空端口
Fixed top vacuum port

B-VPA

弹簧式顶部真空端口
Spring top vacuum port

B-VPC

弹簧式侧面真空端口
Spring type side vacuum port

B-VPD

弹簧式直接安装型
Spring type direct mount type

B-VPF

B-VPA 固定式顶部真空端口 Fixed top vacuum port						
直径 d Disc diameter (mm)	B	L ₁	L ₂	重量 Weight (g)	订购型号 Order model	
8	30.3	5.5	8	10.2	B-VPA8P□6J	
10	30.6	5.8	8.3	10.2	B-VPA10P□6J	
15	31.3	6.5	9	10.3	B-VPA15P□6J	
20	32.1	7.3	9.8	10.4	B-VPA20P□6J	

B-VPC 弹簧式顶部真空端口 Spring top vacuum port						
直径 d Disc diameter (mm)	B	L ₁	L ₂	最大弹簧力 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
8	42.2	5.5	16.5	1.0~1.9	8.9	B-VPC8P□6J
10	42.5	5.8	16.8		8.9	B-VPC10P□6J
15	43.2	6.5	17.5		9	B-VPC15P□6J
20	44	7.3	18.3		9.1	B-VPC20P□6J

B-VPD 弹簧式侧面真空端口 Spring type side vacuum port						
直径 d Disc diameter (mm)	B	L ₁	L ₂	最大弹簧力 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
8	39.5	5.5	23.5	1.0~1.9	14.2	B-VPD8P□6J
10	39.8	5.8	23.8		14.2	B-VPD10P□6J
15	40.5	6.5	24.5		14.3	B-VPD15P□6J
20	41.3	7.3	25.3		14.4	B-VPD20P□6J

B-VPF 弹簧式直接安装型 Spring type direct mount type						
直径 d Disc diameter (mm)	B	L ₁	L ₂	最大弹簧力 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
8	30.5	5.5	21	2.3~3.9	14.2	B-VPF8P□
10	30.8	5.8	21.3		14.2	B-VPF10P□
15	31.5	6.5	22		14.3	B-VPF15P□
20	32.3	7.3	22.8		14.4	B-VPF20P□

B-VP-R series

Ø0.7, Ø1, Ø1.5, Ø2, Ø3, Ø4, Ø6, Ø8, Ø10, Ø15, Ø20, Ø25, Ø30, Ø40, Ø50

Vacuum sucker standard - Vacuum sucker with quick coupling

真空吸盘标准型 -带快速接头真空吸盘

R(常规型 Conventional type)
RM(小型 Small type)



特性 Characteristic

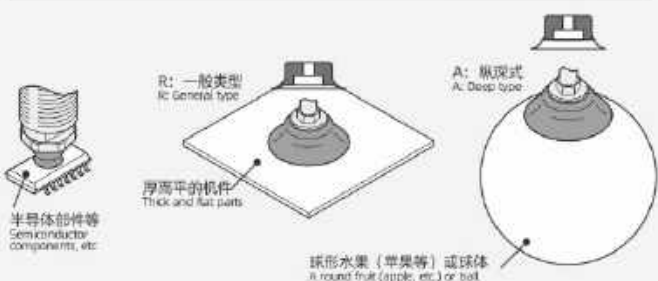
- 可供适合厚和平的制品的常规型吸盘。用于球形果子（如苹果等）或球。
- 吸盘直径：Ø2mm到Ø200mm → 吸盘的形状：2种类型（常规型和深凹型）→ 托架的形状：6种类型
- Can supply suitable for thick and flat products of conventional sucker. Used for ball-shaped fruits (such as apples) or balls.
- Suction cup diameter: Ø2mm to Ø200mm → suction cup shape: 2 types (conventional type and deep concave type) → bracket shape: 6 types

尺寸较小的真空吸盘 Smaller vacuum cups

- 引入了新的吸盘尺寸 (Ø.D×L.D) 0.7×0.2, 1.0×0.4和1.5×0.7mm.
- 适用于半导体部件。
- 对直径在0.7至4mm范围内的吸盘而言，其安装方法已由常规的插入式变成了覆盖式。
- 专为直径的6至30mm直径范围内的真空吸盘重新设计了更小型化的吸盘托架。
- New sucker sizes (Ø.D × L.D) 0.7 × 0.2, 1.0 × 0.4 and 1.5 × 0.7mm were introduced.
- Suitable for semiconductor components.
- For suction cups with diameters ranging from 0.7 to 4 mm, the installation method has changed from conventional plug-in type to covered type.
- A smaller suction cup bracket has been redesigned for conventional real suction cups in the diameter range of 6 to 30mm.

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

- 通过改变材料使得吸盘托架更加小型化，并且重量减轻了。
- 现有的吸盘托架 (A, B, C, D和E式) 尺寸进一步缩小，以达到节约空间的目的。
- 与以往不同的是，更换吸盘时不必再将吸盘托架从设备上取下来了。
- 可以选择摆动式吸盘托架和直接安装型过滤器吸盘托架。
- 吸盘材质：硅胶、氟橡胶、聚氨酯、氟橡胶、防静电橡胶、抗静电橡胶（低电阻型）以及符合食品卫生的NBR。 → 吸盘托架的形状：5种类型
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A, B, C, D and E) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Swing type suction cup bracket and direct mounted filter suction cup brackets can be selected.
- Suction cup material: nitrile rubber, silica gel, polyurethane rubber, fluororubber, antistatic rubber, antistatic rubber (low resistance) and NBR suitable for food hygiene activities.
- The shape of sucker bracket: 5 types



半导体部件等
Semiconductor components, etc.

R: 一般类型
R: General type

A: 深凹式
A: Deep type

厚而平的机件
Thick and flat parts

球形水果（苹果等）或球
A round fruit (apple, etc.) or ball

型号表示方式 Model representation

B-VPA 40 R N 6J

① 吸盘托架的类型 Types of suction cup bracket



代码 Code	直径 Diameter	壁厚 Wall thickness
0.7	Ø0.7	0.03in
1	Ø1	0.04in
1.5	Ø1.5	0.06in
2	Ø2	0.08in
3	Ø3	0.12in
4	Ø4	0.16in
6	Ø6	0.24in
8	Ø8	0.31in
10	Ø10	0.39in
15	Ø15	0.59in
20	Ø20	0.79in
25	Ø25	0.98in
30	Ø30	1.18in
40	Ø40	1.57in
50	Ø50	1.97in

※ 吸盘规格：工件的刚性加强。
Suctioning Specifications: The separation of the workpiece is strengthened.

② 吸盘直径 Suction cup diameter

代码 Code	形状 Shape
R	常规型 Conventional type
RM	小型 Small type

③ 吸盘形状 Suction cup shape

代码 Code	吸盘尺寸 Suction cup size	连接尺寸 Connector size	直径 Diameter (Ø.D×L.D)
4j	Ø2-Ø4	快速接头 Quick coupling	4×2.5(mm)
6j	Ø6-Ø50	快速接头 Quick coupling	6×4(mm)

④ 吸盘材质 Suction cup Material

代码 Code	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	防静电氟橡胶 Conductive nitrile rubber
F	氟橡胶/灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluoro silicone rubber
LH	无氟防静电橡胶 No fluorine antistatic countermeasure

* N/S为常用材料，其余材料，请参照材料规格书。
* N/S is standard material, other material, please refer to the material specification book.

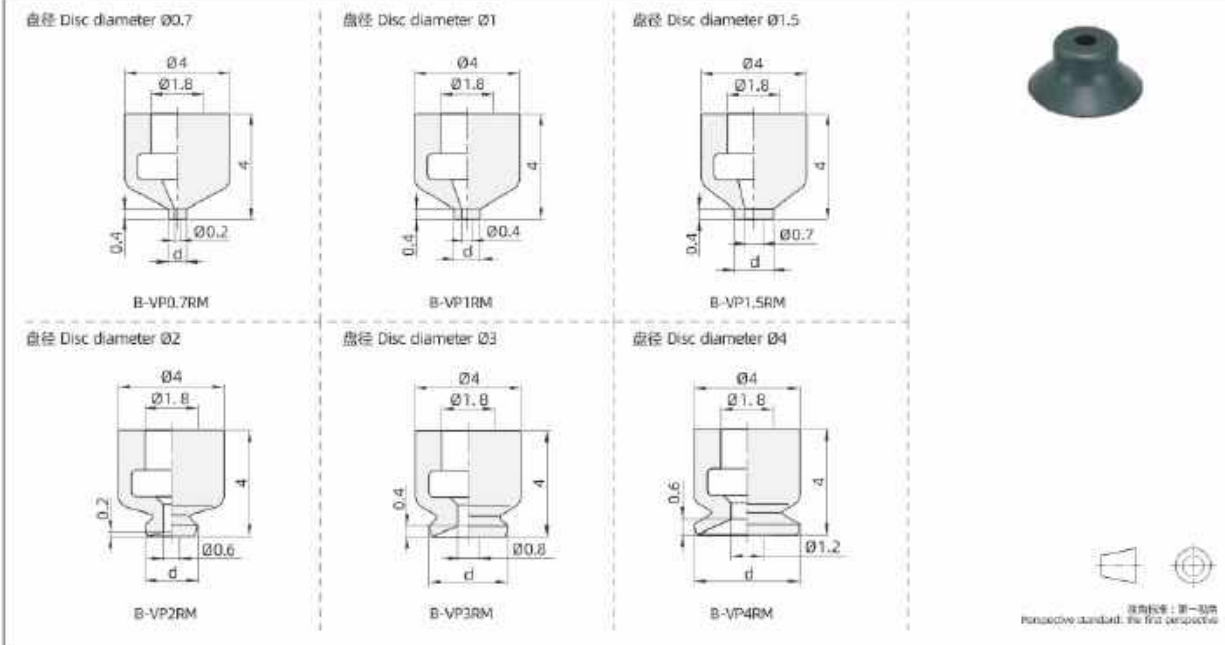
⑤ 接头尺寸和形状 Joint size and shape

代码 Code	类型 Type	主体 Subject	吸盘 Suction cup	颜色 Color
B-VPME	固定式顶部真空吸口 Fixed top vacuum port	材质 Material: 氟橡胶 Fluoro rubber	表面处理 Surface treatment: 无氟防静电 (No fluorine antistatic)	材料 Material: 丁腈橡胶 Nitrile rubber

吸盘直径: Ø0.7~Ø4 吸盘形状: 常规型、小型
Suction cup diameter: Ø0.7~Ø4 Suction cup shape: Conventional, small

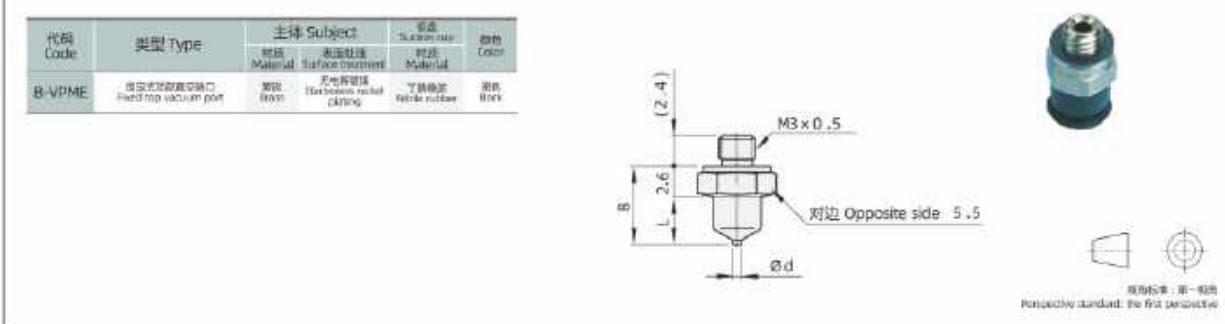
小型真空吸盘 Small vacuum sucker

吸盘单体 Sucker monomer

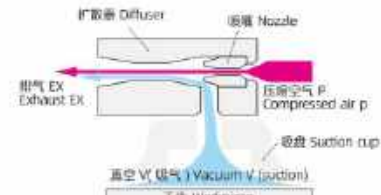


直径 Disc diameter Ø	订购型号 Order model
0.7	B-VP0.7RM□
1	B-VP1RM□
1.5	B-VP1.5RM□
2	B-VP2RM□
3	B-VP3RM□
4	B-VP4RM□

小型真空吸盘组件(B-VPME) Small vacuum cup assembly (B-VPME)



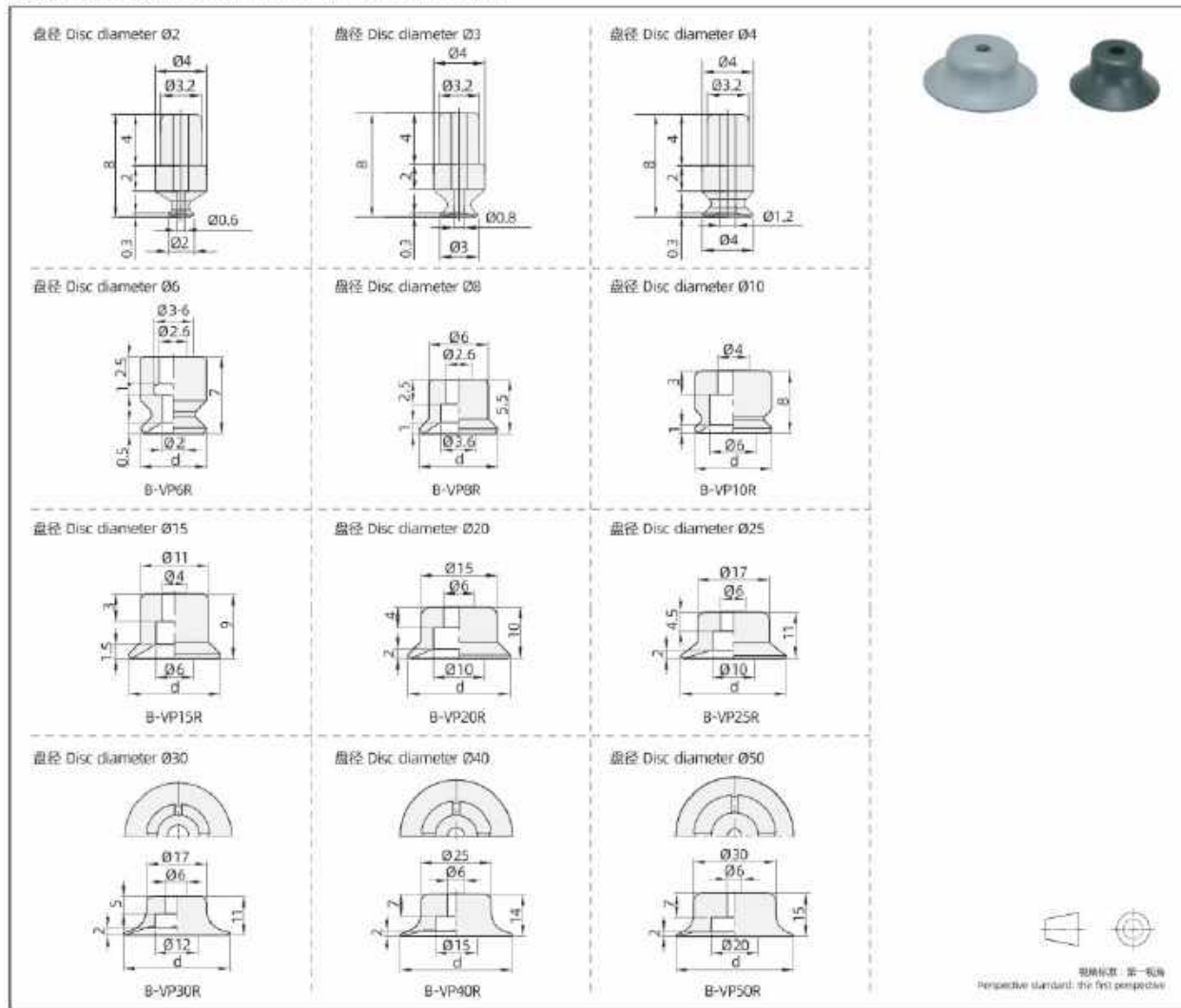
直径 Disc diameter Ø	B	L	重量 Weight (g)	订购型号 Order model
0.7				B-VPME0.7RM□
1				B-VPME1RM□
1.5				B-VPME1.5RM□
2	6.6	4	1	B-VPME2RM□
3				B-VPME3RM□
4				B-VPME4RM□



吸盘直径: Ø2~Ø50 吸盘形状: 常规型、小型
Suction cup diameter: Ø2~Ø50 Suction cup shape: Conventional, small

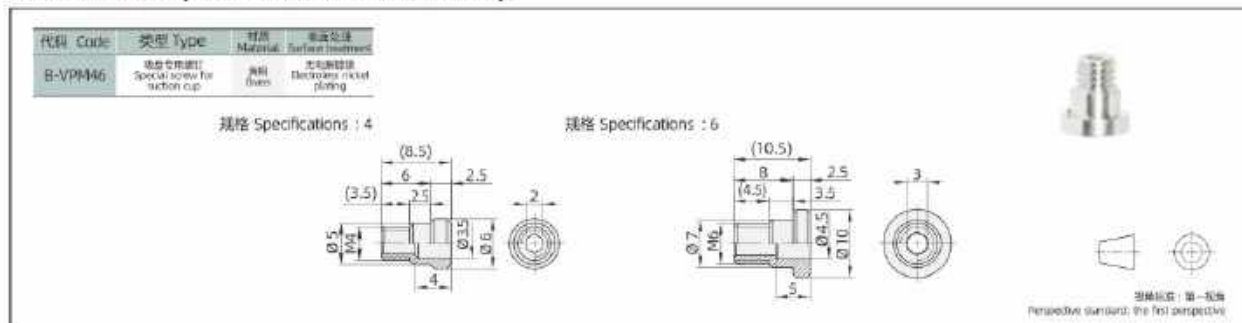
常规型真空吸盘 吸盘专用螺钉 Conventional vacuum sucker special screw

常规型真空吸盘 Conventional vacuum sucker



Disc diameter Ø	2	3	4	6	8	10	15	20	25	30	40	50
Order model	B-VP2R□	B-VP3R□	B-VP4R□	B-VP6R□	B-VP8R□	B-VP10R□	B-VP15R□	B-VP20R□	B-VP25R□	B-VP30R□	B-VP40R□	B-VP50R□

吸盘专用螺钉 Special screw for suction cup



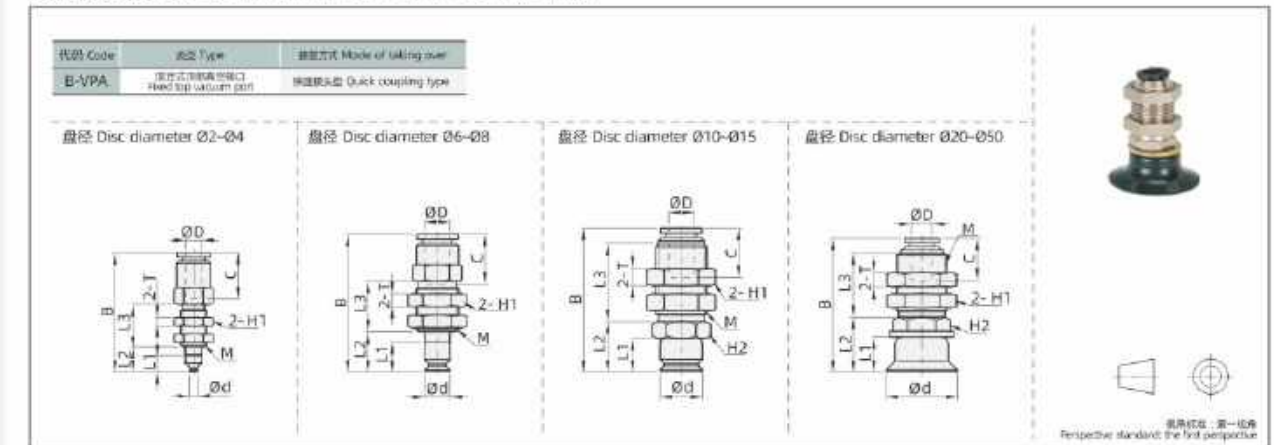
规格 Specifications	重量 Weight (g)	适用吸盘 Suitable for sucker	订购型号 Order model
4	1.1	Ø11, Ø15	B-VPM46-4
6	3	Ø11, Ø15, Ø25	B-VPM46-6

适用常规型、深凹型、波纹真空吸盘。
Suitable for conventional, deep concave and corrugated vacuum sucker.

吸盘直径: Ø2~Ø50 吸盘形状: 常规型、小型
Suction cup diameter: Ø2~Ø50 Suction cup shape: Conventional, small

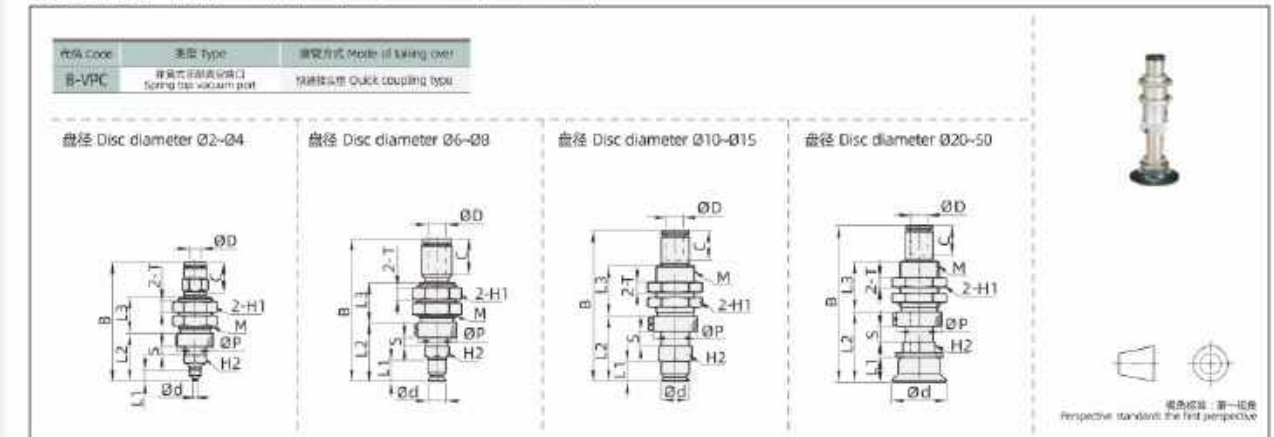
常规型真空吸盘(组件) Conventional vacuum sucker (assembly)

固定式顶部真空端口(B-VPA) Fixed top vacuum port (B-VPA)



Disc diameter Ø	B	D	M	L1	L2	L3	C	对边 Opposite side (H)	对边 Opposite side (h)	T	重量 Weight (g)	订购型号 Order model
2							11.7	8	-	2	4.5	B-VPA2R□4J
3	29	4	M6x0.75	4	6	10	11.7	12	-	3	12.5	B-VPA3R□4J
4						B-VPA4R□4J						
6	32.6	6	M10x1	7	9.5	12	11.7	14	-	4	37	B-VPA6R□6J
8	31.1			5.5	8							B-VPA8R□6J
10	34.1		M12x1	8	12	18.5						B-VPA10R□6J
15	35.1			9	13							B-VPA15R□6J
20	37.7		M14x1	10	15.6	18						B-VPA20R□6J
25	38.7			11	16.6							
30	38.7	11	16.6			B-VPA30R□6J						
40	41.7	14	19.6			B-VPA40R□6J						
50	42.7	15	20.6			B-VPA50R□6J						

弹簧式顶部真空端口(B-VPC) Spring top vacuum port (B-VPC)



Disc diameter Ø	B	D	M	L1	L2	L3	P	C	行程 Stroke (mm)	对边 Opposite side (H)	对边 Opposite side (h)	T	弹簧最大行程 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
2								11.7	3	14	8	3.5	0.2-0.3	9.5	B-VPC2R□4J
3	45	4	M12x1	4	17.5	13	13	11.7	3	14	8	3	0.9-1.9	18.5	B-VPC3R□4J
4							B-VPC4R□4J								
6	47.1	6	M12x1	7	19.5	13	13	11.7	6	17	12	4	7.0-12.6	35.5	B-VPC6R□6J
8	45.6			5.5	18		B-VPC8R□6J								
10	60.1		M14x1	8	26	20	16								B-VPC10R□6J
15	61.1			9	27										
20	62.1		M14x1	10	28	20	16								B-VPC20R□6J
25	63.1			11	29										
30	63.1	11	29				B-VPC30R□6J								
40	66.1	14	32				B-VPC40R□6J								
50	67.1	15	33				B-VPC50R□6J								

吸盘直径: Ø2~Ø50 吸盘形状: 常规型、小型
Suction cup diameter: Ø2~Ø50 Suction cup shape: Conventional, small

常规型真空吸盘(组件) Conventional vacuum sucker (assembly)

弹簧式侧面真空端口(B-VPD) Spring type side vacuum port (B-VPD)


代码 Code	类型 Type	接管方式 Mode of taking over
B-VPD	弹簧式侧面真空端口 Spring type side vacuum port	快接接头 Quick coupling type

直径 Disc diameter Ø2-Ø4

直径 Disc diameter Ø6-Ø8

直径 Disc diameter Ø10-Ø15

直径 Disc diameter Ø20-Ø50



图例标准：第一视角
Perspective standard: the first perspective

直径 d Disc diameter d	B	D	M	L ₁	L ₂	L ₃	P	行程 S Stroke s	行程 Stroke s ₁	行程 Stroke s ₂	T	吸力最大值(N) Maximum suction load (N)	重量 Weight (g)	订货型号 Order model
2														B-VPD2R□□
3	39.5	4	M8×0.75	4	24	13	10	3	18	12.5	10	0.2~0.3	7.5	B-VPD3R□□
4														B-VPD4R□□
6	41		M8×0.75	7	25								15.5	B-VPD6R□□
8	39.5			5.5	23.5	13	13	3	18.1	13	10	0.9~1.9	15.5	B-VPD8R□□
10	58.1			8	35								47.5	B-VPD10R□□
15	59.1			9	36								48	B-VPD15R□□
20	60.1	6		10	37								51.5	B-VPD20R□□
25	61.1		M14×1	11	38	20	16	6	20.1	18.5	17		52	B-VPD25R□□
30	61.1			11	38								54	B-VPD30R□□
40	64.1			14	41							7.0~12.6	61	B-VPD40R□□
50	65.1			15	42								67	B-VPD50R□□

弹簧式直接安装型(B-VPF) Spring type direct mount (B-VPF)


代码 Code	类型 Type	接管方式 Mode of taking over
B-VPF	弹簧式直接安装型 Spring type direct mount type	螺紋型 Screw thread type

直径 Disc diameter Ø2-Ø4

直径 Disc diameter Ø6-Ø8

直径 Disc diameter Ø10-Ø15

直径 Disc diameter Ø20-Ø50



图例标准：第一视角
Perspective standard: the first perspective

直径 d Disc diameter d	B	M	A	L ₁	L ₂	P	行程 S Stroke s	行程 Stroke s ₁	行程 Stroke s ₂	吸力最大值(N) Maximum suction load (N)	重量 Weight (g)	订货型号 Order model
2												B-VPF2R□
3	32		8.7	4	23.3	14	3	12	-	0.2~0.3	6.5	B-VPF3R□
4		M10×1										B-VPF4R□
6	32			7	22.5						14.5	B-VPF6R□
8	30.5		9.5	5.5	21	14	3	12	-	2.3~3.9	14.5	B-VPF8R□
10	51			8	39.3						55.5	B-VPF10R□
15	52			9	40.3						56	B-VPF15R□
20	54			10	42.3						58.5	B-VPF20R□
25	55	M14×1	11.7	11	43.3	19	5.8	17	12	7.9~15.0	59	B-VPF25R□
30	55			11	43.3						61	B-VPF30R□
40	58			14	46.3						68	B-VPF40R□
50	59			15	47.3						74	B-VPF50R□

MEMO



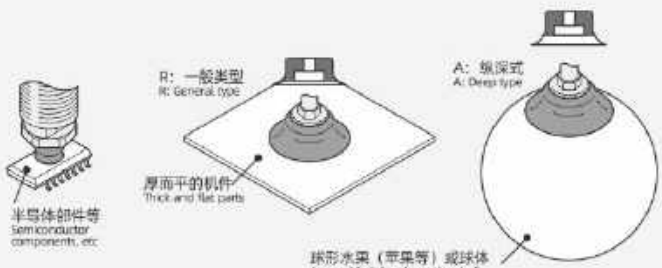
B-VP-A series

Ø15, Ø20, Ø25, Ø30, Ø40, Ø50

Vacuum suction cup deep concave type-Vacuum suction cup with quick connection

真空吸盘深凹型 -带快速接头真空吸盘

R(常规型 Conventional type)



特性 Characteristic

- 可供应适合厚和平的制品的常规型吸盘。用于球型果子(如苹果等)或球。
- 吸盘直径: Ø2mm到Ø200mm > 吸盘的形状: 2种类型(常规型和深凹型) > 托架的形状: 6种类型
- Can supply suitable for thick and flat products of conventional sucker. Used for ball shaped fruits (such as apples) or balls.
- Suction cup diameter: Ø2mm to Ø200mm > suction cup shape: 2 types (conventional type and deep concave type) > bracket shape: 6 types

尺寸较小的真空吸盘 Smaller vacuum cups

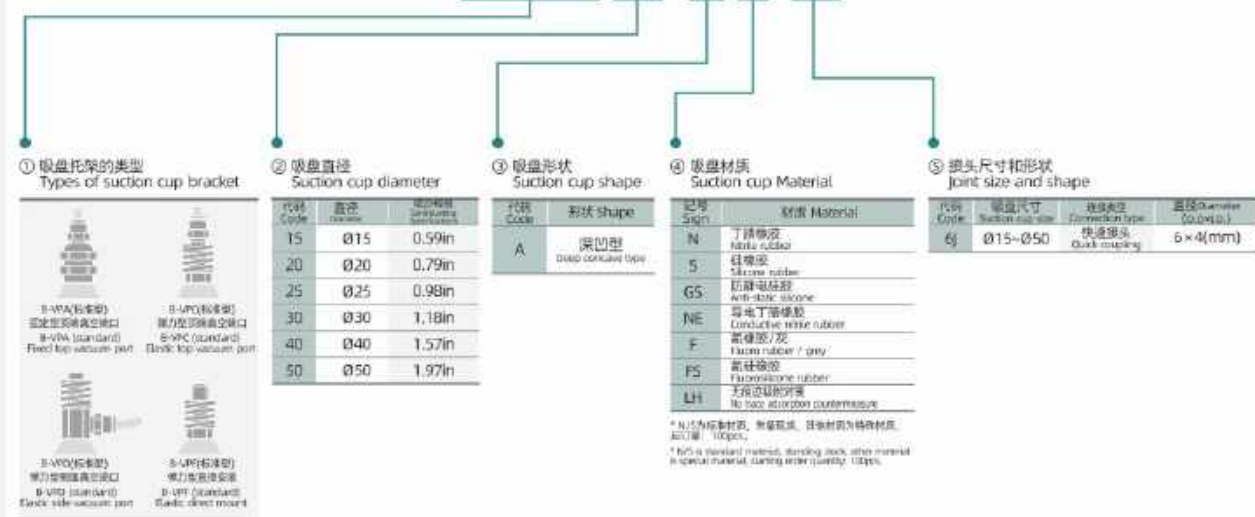
- 引入了新的吸盘尺寸 (O.D×I.D) 0.7×0.2, 1.0×0.4和1.5×0.7mm。
- 适用于半导体部件。
- 对直径在0.7至4mm范围内的吸盘而言, 其安装方法已由常规的插入式变成了覆盖式。
- 专为常规的6至30mm直径范围内的真空吸盘重新设计了更小型化的吸盘托架。
- New sucker sizes (O.D × I.D) 0.7 × 0.2, 1.0 × 0.4 and 1.5 × 0.7mm were introduced.
- Suitable for semiconductor components.
- For suction cups with diameters ranging from 0.7 to 4 mm, the installation method has changed from conventional plug-in type to covered type.
- A smaller suction cup bracket has been redesigned for conventional real suction cups in the diameter range of 6 to 30mm.

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

- 通过改变材质使得吸盘托架更加小型化, 并且重量更轻了。
- 原有的吸盘托架(A, B, C, D和E式)尺寸进一步缩小, 以达到节约空间的目的。
- 与以往不同的是, 更换吸盘时不必再将吸盘托架从设备上取下来了。
- 可以选择磁吸式吸盘托架和直接安装型过滤器吸盘托架。
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A, B, C, D and E) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Saving type suction cup bracket and direct mounted filter suction cup bracket can be selected.
- Suction cup material: nitrile rubber, silica gel, polyurethane rubber, fluororubber, antistatic rubber, antistatic rubber (low resistance) and NBR suitable for food hygiene activities.
- The shape of sucker bracket: 5 types

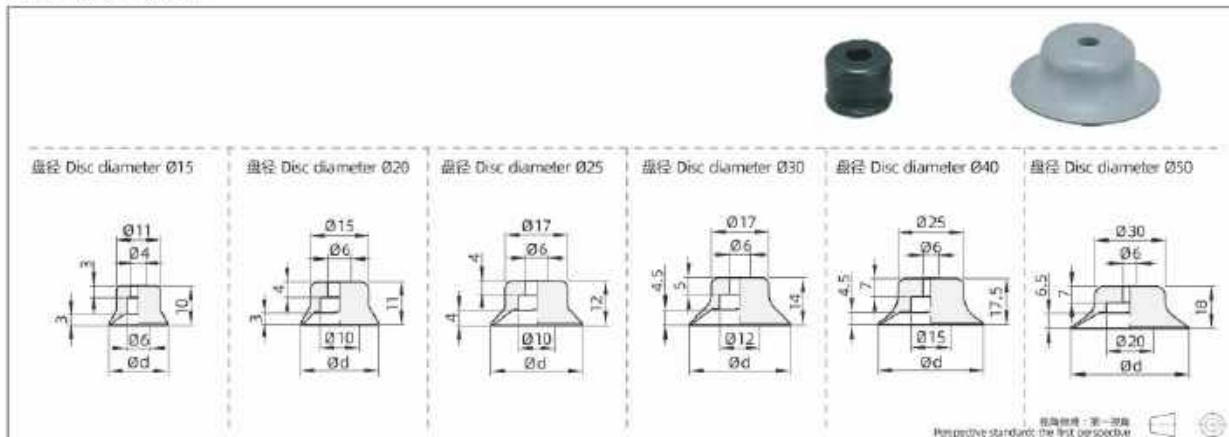
型号表示方式 Model representation

B-VPA 40 A N 6J



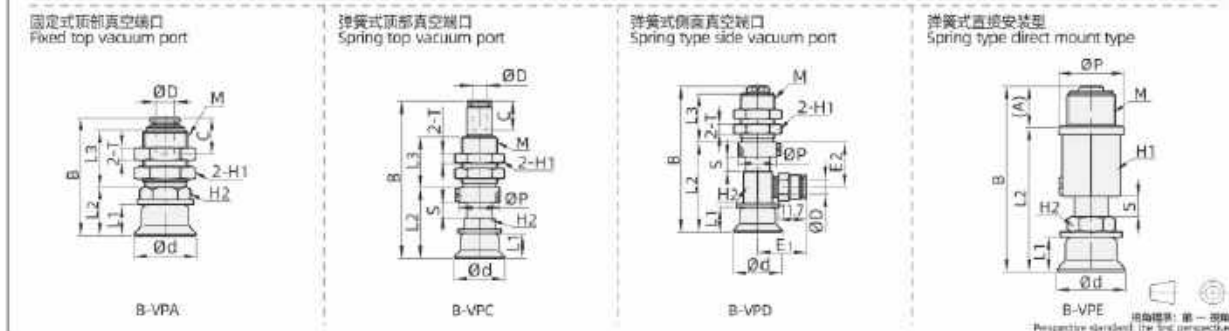
深凹型真空吸盘(单件/组件) Deep concave vacuum sucker (single piece / assembly)

单件 Single piece



直径 d Disc diameter Ø	订购型号 Order model
15	B-VP15A□
20	B-VP20A□
25	B-VP25A□
30	B-VP30A□
40	B-VP40A□
50	B-VP50A□

组件 Components



B-VPA 固定式顶部真空接口 Fixed top vacuum part														B-VPC 弹簧式顶部真空接口 Spring top vacuum part													
直径 d	B	D	M	L1	L2	L3	C	行程 S	行程 T	重量 W	订购型号 Order model	直径 d	B	D	M	L1	L2	L3	P	C	行程 S	行程 T	重量 W	订购型号 Order model			
15	36.1		M12×1	10	14	18.5	14			21.5	B-VPA15AR□6J	15	62.1			10	28					4.0-7.1	36	B-VPC15A□6J			
20	38.7			11	16.6					36.5	B-VPA20AR□6J	20	63.1			11	29						39.5	B-VPC20A□6J			
25	39.7			12	17.6					37	B-VPA25AR□6J	25	64.1			12	30						40	B-VPC25A□6J			
30	41.7		M14×1	14	19.6	18	11.7	17	12	4	B-VPA30AR□6J	30	66.1	6	M14×1	14	32	20	16	11.7	6	17	12	4	7.0-12.6	42.5	B-VPC30A□6J
40	45.2			17.5	23.1					47	B-VPA40AR□6J	40	69.6			17.5	35.5							50.5	B-VPC40A□6J		
50	45.7			18	23.6					53.5	B-VPA50AR□6J	50	70.1			18	36							56.5	B-VPC50A□6J		

B-VPF 弹簧式侧面真空接口 Spring type side vacuum part														B-VPD 弹簧式直接安装型 Spring type direct mount type																	
直径 d	B	M	A	L1	L2	P	行程 S	行程 T	行程 E	行程 F	行程 G	重量 W	订购型号 Order model	直径 d	B	D	M	L1	L2	L3	P	行程 S	行程 T	行程 E	行程 F	行程 G	重量 W	订购型号 Order model			
15	53			10	41.3								56	B-VPF15A□	15	60.1			10	37								4.0-7.1	48	B-VPD15A□6J	
20	55			11	43.3								58.5	B-VPF20A□	20	61.1			11	38									51	B-VPD20A□6J	
25	56			12	44.3								59	B-VPF25A□	25	62.1			12	39									52	B-VPD25A□6J	
30	58		M14×1	14	46.3	19	5.8	17	12	7.9-15.0			61	B-VPF30A□	30	64.1			14	41	20	16	6	20	118.5	17	12	4	7.0-12.6	54	B-VPD30A□6J
40	61.5			17.5	49.8								69	B-VPF40A□	40	67.6			17.5	44.5									62	B-VPD40A□6J	
50	62			18	50.3								75.5	B-VPF50A□	50	68.1			18	45									68.5	B-VPD50A□6J	

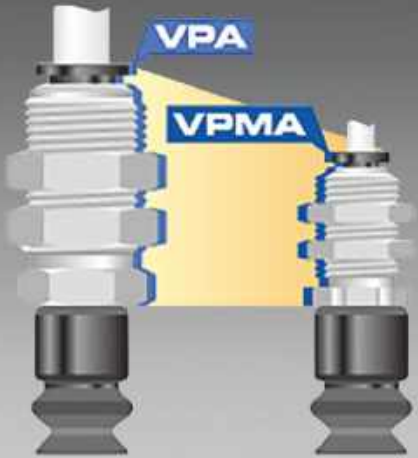
B-VP-B series

Ø10, Ø20, Ø30, Ø40, Ø50

Bellows type vacuum sucker - Vacuum sucker with quick coupling

波纹风箱型真空吸盘 -带快速接头真空吸盘

B(波纹风箱型 Bellows type)

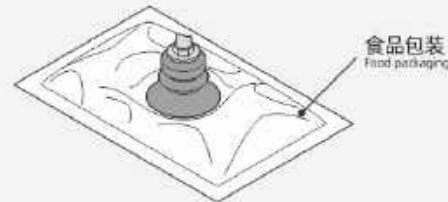


特性 Characteristic

- 能吸附纸张、食品包装袋等柔软制品，亦可吸有倾斜度产品之功能。
- >吸盘直径: Ø10mm到Ø80mm >吸盘托架形状: 5种
- It can absorb paper, food packaging bags and other soft products, and can also absorb inclined products.
- >Diameter of suction cup: Ø10mm to Ø80mm >Sucker bracket shape: 5 kinds

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

- 通过改变材质能使吸盘托架更加小型化，并且重量更轻了。
- 现有的吸盘托架 (A, B, C和D型) 尺寸进一步缩小，以达到节约空间的目的。
- 与以往不同的是，更换吸盘时不必再将吸盘托架从设备上取下来了。
- 可以选择滑动式吸盘托架和直接安装型过滤器吸盘托架。
- >吸盘直径: Ø10mm到Ø30mm >吸盘托架形状: 4种
- >吸盘的材料: 亚硝酸酯橡胶, 硅橡胶, 低阻抗防静电橡胶
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A, B, C and D) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Materials of suction cup: nitrite rubber, silicone rubber, low impedance antistatic rubber



型号表示方式 Model representation

B-VPA 10 B N 6J

① 吸盘托架的类型 Types of suction cup bracket

② 吸盘直径 Suction cup diameter

代号 Code	直径 Diameter	英寸 Inching
10	Ø10	0.39in
20	Ø25	0.79in
30	Ø30	1.18in
40	Ø40	1.57in
50	Ø50	1.97in

③ 吸盘材质 Suction cup Material

代号 Sign	材质 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶 / 聚四氟乙烯 Fluoro rubber / gey
PS	聚四氟乙烯 Fluoroteflon rubber
LH	无卤阻燃聚丙烯 Halofree antistatic flame-retardant

* N/S为特殊材料，数量有限，其他材料为材料标准。
 起订量: 100PCS.
 * LH is standard material, quantity stock, other material is special material, starting order quantity: 100PCS.

④ 吸盘形状 Suction cup shape

代号 Code	形状 Shape
B	波纹风箱型 Bellows type

⑤ 接头尺寸和形状 Joint size and shape

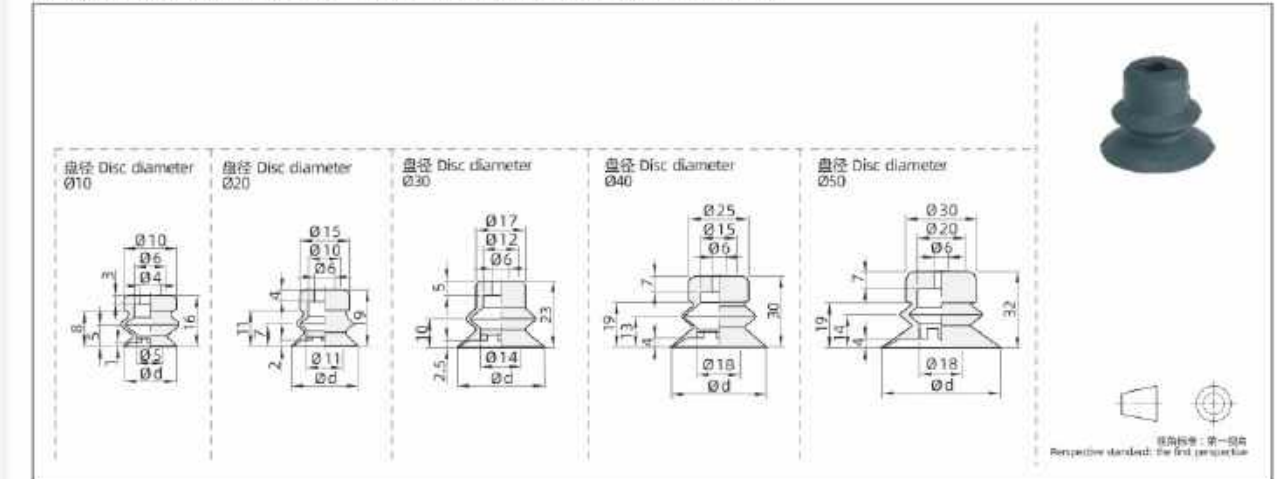
代号 Code	吸盘尺寸 Suction cup size	连接形式 Connection type	直径 Diameter (cup side)
6J	Ø10-Ø50	快速接头 Quick coupling	6×4(mm)

* 只提供尺寸较小的托架。
 Only smaller brackets are available.

吸盘直径: Ø10~Ø50 吸盘形状: 波纹风箱型
 Suction cup diameter: Ø10~Ø50 Suction cup shape: Bellows type

波纹型真空吸盘(组件) Corrugated vacuum sucker (assembly)

波纹型真空吸盘(单件) Corrugated vacuum sucker (single piece)



B-VP	订购型号 Order model
10	B-VP10B□
20	B-VP20B□
30	B-VP30B□
40	B-VP40B□
50	B-VP50B□

波纹型真空吸盘组件(B-VPA) Corrugated vacuum sucker assembly (B-VPA)

代号 Code	类型 Type	连接方式 Made of being used
B-VPA	带快速接头的真空吸盘 Head tip vacuum port	快速接头型 Quick coupling type

① 吸盘直径 Disc diameter Ø10

② 吸盘直径 Disc diameter Ø20-50

③ 吸盘形状 Suction cup shape

④ 接头尺寸和形状 Joint size and shape

直径 d Disc diameter d	B	M	L ₁	L ₂	L ₃	对边 Opposite side H	对边 Opposite side H	T	重量 Weight (g)	订购型号 Order model
10	42.1	M12×1	16	20	16.5	14	12	4	21.5	B-VPA10B□6J
20	46.7	M14×1	19	24.6	18	17	14		36.5	B-VPA20B□6J
30	50.7		23	28.6					40	B-VPA30B□6J
40	57.7		30	35.6					48.5	B-VPA40B□6J
50	59.7		32	37.6					54.5	B-VPA50B□6J

吸盘直径: Ø10~Ø50 吸盘形状: 波纹风箱型
Suction cup diameter: Ø10~Ø50 Suction cup shape: Bellows type

波纹型真空吸盘(组件) Corrugated vacuum sucker (assembly)

弹簧式顶部真空端口(B-VPC) Spring top vacuum port (B-VPC)

代码 Code	类型 Type	连接方式 Mode of taking over	直径 Disc diameter Ø10	直径 Disc diameter Ø20-50
B-VPC	弹簧式顶部真空端口 Spring top vacuum port	快速耦合型 Quick coupling type		

图例说明: 第一视角
Perspective standard: the first perspective

B-VPC													
直径 Ø Disc diameter Ø	B	M	L1	L2	L3	P	行程 S Stroke s	对边 Opposite side H1	对边 Opposite side H2	T	弹簧最大负载 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
10	60.1	M14x1	16	34	20	16	6	17	12	4	4.2~7.1	36	B-VPC10B □□□
20	71.1		19	37									
30	75.1		23	41									
40	82.1		30	48									
50	84.1		32	50									

弹簧式侧面真空口(B-VPD) Spring type side vacuum port (B-VPD)

代码 Code	类型 Type	连接方式 Mode of taking over	直径 Disc diameter Ø10	直径 Disc diameter Ø20-50
B-VPD	弹簧式侧面真空口 Spring type side vacuum port	快速耦合型 Quick coupling type		

图例说明: 第一视角
Perspective standard: the first perspective

B-VPD													
直径 Ø Disc diameter Ø	B	M	L1	L2	L3	行程 S Stroke s	E	对边 Opposite side H1	对边 Opposite side H2	T	弹簧最大负载 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
10	66.1	M14x1	16	43	20	6	18.5	17	12	4	4.2~7.1	48	B-VPD10B □□□
20	69.1		19	46									
30	73.1		23	50									
40	80.1		30	57									
50	82.1		32	59									

弹簧式直接安装型(B-VPF) Spring type direct mount (B-VPF)

代码 Code	类型 Type	连接方式 Mode of taking over	直径 Disc diameter Ø10	直径 Disc diameter Ø20-50
B-VPF	弹簧式直接安装型 Spring type direct mount type	螺线型 Screw thread type		

图例说明: 第一视角
Perspective standard: the first perspective

B-VPF						
直径 Ø Disc diameter Ø	B	L1	L2	弹簧最大负载 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
10	59	16	47.3	7.0~15.0	56	B-VPF10B □□
20	63	19	51.3		58.5	B-VPF20B □□
30	67	23	55.3		62	B-VPF30B □□
40	74	30	62.3		70.5	B-VPF40B □□
50	76	32	64.3		76.5	B-VPF50B □□

MEMO

B-VP-E series

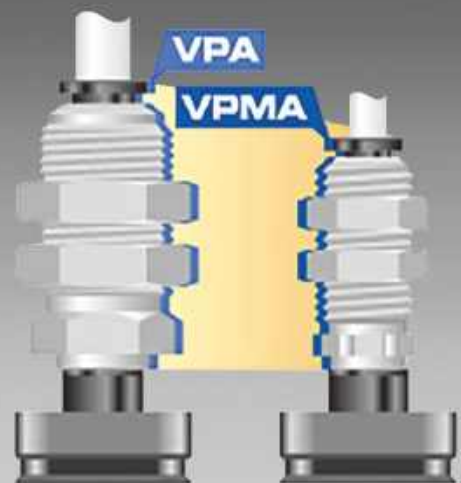
吸盘直径: X×Y 吸盘形状: 椭圆形
Suction cup diameter: X×Y Suction cup shape: Elliptic type

XXY

Elliptical vacuum sucker - Vacuum sucker with quick coupling

椭圆形真空吸盘 -带快速接头真空吸盘

E(椭圆形 Elliptic type)

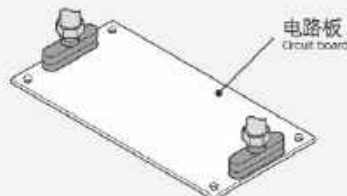


特性 Characteristic

- 最适合于如吸附圆棒等需多个小吸盘的工作件。
- > 吸盘托架形状: 7种
- > Sucker bracket shape: 7 kinds
- It is most suitable for the work pieces that need many small suction cups, such as adsorption round bar.

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

- 通过改变材质使得吸盘托架更加小型化, 并且重量更轻了。
- 现有的吸盘托架(A, B, C和D型)尺寸进一步缩小, 以达到节约空间的目的。
- 与以往不同的是, 更换吸盘时不必再拆吸盘托架从设备上取下来了。
- 可以选择摆动式吸盘托架和直接安装型过滤器吸盘托架。
- > 吸盘直径: 11种 > 吸盘托架形状: 4种
- > 吸盘的材料: 亚硝基橡胶, 硅橡胶, 低阻抗防静电橡胶
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A, B, C and D) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Swing type suction cup bracket and direct mounted filter suction cup bracket can be selected.
- > Sucker diameter: 11 kinds > Sucker bracket shape: 4 kinds
- > Materials of suction cup: nitrile rubber, silicone rubber, low impedance antistatic rubber



型号表示方式 Model representation

B-VPA 4×10 E N 6J

① 吸盘托架的类型 Types of suction cup bracket



② 吸盘直径 Suction cup diameter

代码 Code	X	Y
2×4	2mm(0.08in)	4mm(0.16in)
3.5×7	3.5mm(0.14in)	7mm(0.28in)
4×10	4mm(0.16in)	10mm(0.39in)
5×10	5mm(0.20in)	10mm(0.39in)
6×10	6mm(0.24in)	10mm(0.39in)
4×20	4mm(0.16in)	20mm(0.79in)
5×20	5mm(0.20in)	20mm(0.79in)
6×20	6mm(0.24in)	20mm(0.79in)
8×20	8mm(0.31in)	20mm(0.79in)
4×30	4mm(0.16in)	30mm(1.18in)
5×30	5mm(0.20in)	30mm(1.18in)
6×30	6mm(0.24in)	30mm(1.18in)
8×30	8mm(0.31in)	30mm(1.18in)



③ 吸盘材质 Suction cup Material

代号 Code	材料 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电硅胶 Anti-static silicone
NE	导电硅胶 Conductive silicone rubber
F	氟橡胶/灰 Fluoro rubber / gray
PS	氟硅橡胶 Fluorosilicone rubber
LH	无卤素防静电材料 Halogen-free antistatic material

* 如无特殊说明, 标准颜色, 其他特殊颜色材料, 起订量: 100pcs.
* No special material, standard color, other material is special material, starting order quantity: 100pcs.

④ 接头尺寸和形状 Joint size and shape

代号 Code	吸盘尺寸 Suction cup size	接头类型 Joint type	接头尺寸和形状 Joint size and shape
6J	4×10-8×30	快速接头 Quick coupling	6×4(mm)

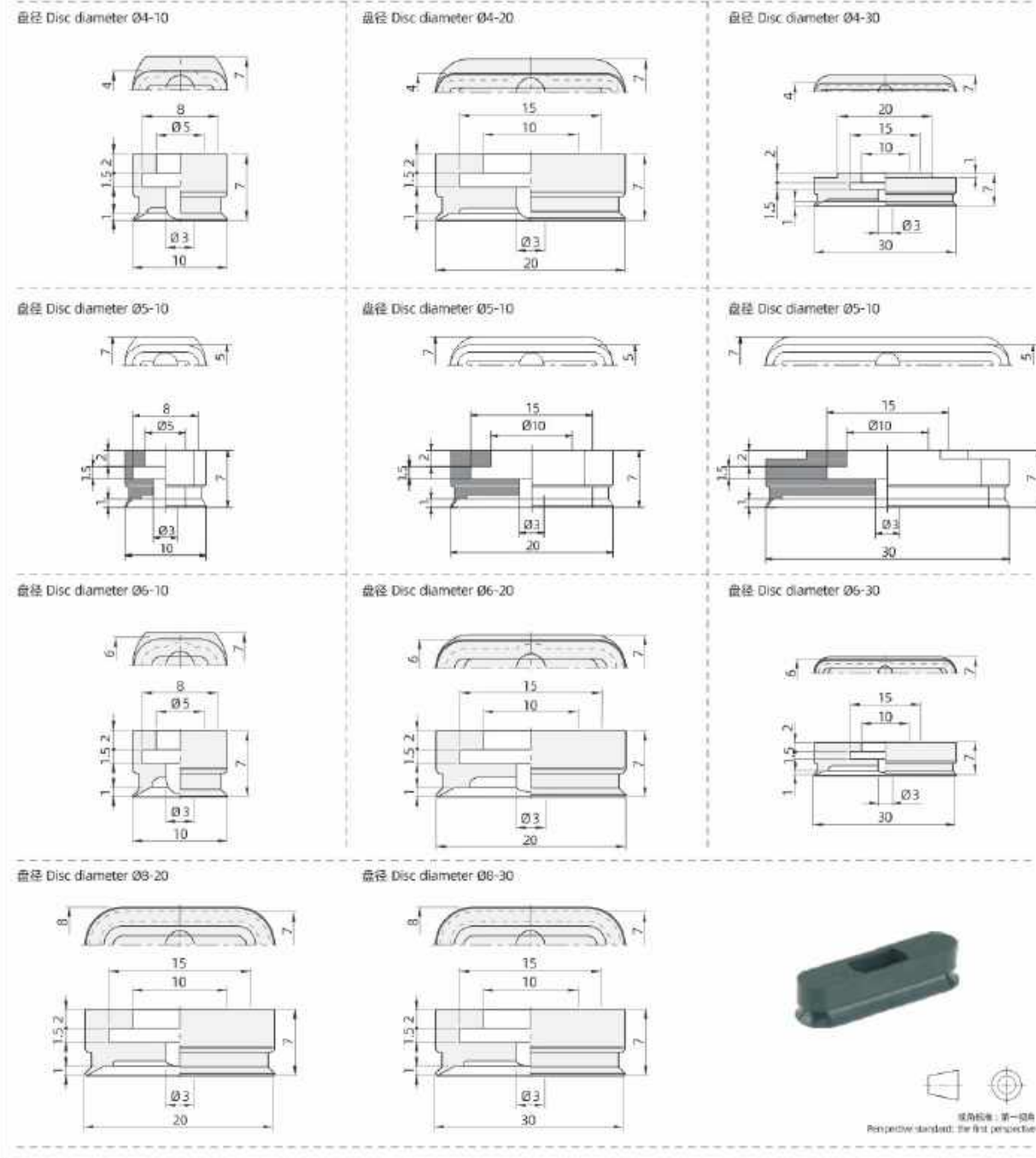
• 只提供尺寸较小的托架。
Only smaller brackets are available.

⑤ 吸盘形状 Suction cup shape

代码 Code	形状 Shape
E	椭圆形 Elliptic type

椭圆形真空吸盘 Elliptical vacuum sucker

椭圆形真空吸盘单件(单件) Single piece of elliptical vacuum sucker (Single piece)



B-VP	吸盘直径 d	订购型号 Order model
	4×10	B-VP4×10E□
	4×20	B-VP4×20E□
	4×30	B-VP4×30E□
	5×10	B-VP5×10E□
	5×20	B-VP5×20E□
	5×30	B-VP5×30E□

B-VP	吸盘直径 d	订购型号 Order model
	6×10	B-VP6×10E□
	6×20	B-VP6×20E□
	6×30	B-VP6×30E□
	8×20	B-VP8×20E□
	8×30	B-VP8×30E□



视图标准: 第一视角
Perspective standard: the first perspective

吸盘直径: X×Y 吸盘形状: 椭圆形
Suction cup diameter: X×Y Suction cup shape: Elliptic type

椭圆形真空吸盘(组件) Elliptical vacuum sucker (assembly)

固定式顶部真空端口(B-VPA) Fixed top vacuum port (B-VPA)

代码 Code	类型 Type	接管方式 Mode of taking over
B-VPA	固定式顶部真空端口 Fixed top vacuum port	快接接头型 Quick coupling type

视图标准: 第一视角
Perspective standard: the first perspective

B-VPA		
直径 d Disc diameter d	重量 Weight (g)	订购型号 Order model
4×10	31.5	B-VPA4×10E□6
4×20	32	B-VPA4×20E□6
4×30	32.5	B-VPA4×30E□6
5×10	31.5	B-VPA5×10E□6
5×20	32	B-VPA5×20E□6
5×30	32.5	B-VPA5×30E□6
6×10	31.5	B-VPA6×10E□6
6×20	32	B-VPA6×20E□6
6×30	32.5	B-VPA6×30E□6
8×20	32	B-VPA8×20E□6
8×30	32.5	B-VPA8×30E□6

弹簧式顶部真空端口(B-VPC) Spring top vacuum port (B-VPC)

代码 Code	类型 Type	接管方式 Mode of taking over
B-VPC	弹簧式顶部真空端口 Spring top vacuum port	快接接头型 Quick coupling type

视图标准: 第一视角
Perspective standard: the first perspective

B-VPC			
直径 d Disc diameter d	弹簧最大负载 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
4×10	7.9-12.6	35	B-VPC4×10E□6
4×20		35.5	B-VPC4×20E□6
4×30		36	B-VPC4×30E□6
5×10		35	B-VPC5×10E□6
5×20		35.5	B-VPC5×20E□6
5×30		36	B-VPC5×30E□6
6×10		35	B-VPC6×10E□6
6×20		35.5	B-VPC6×20E□6
6×30		36	B-VPC6×30E□6
8×20		35	B-VPC8×20E□6
8×30		36	B-VPC8×30E□6

弹簧式侧面真空端口(B-VPD) Spring type side vacuum port (B-VPD)

代码 Code	类型 Type	接管方式 Mode of taking over
B-VPD	弹簧式侧面真空端口 Spring type side vacuum port	快接接头型 Quick coupling type

视图标准: 第一视角
Perspective standard: the first perspective

B-VPD			
直径 d Disc diameter d	弹簧最大负载 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
4×10	7.0-12.6	46.5	B-VPD4×10E□6
4×20		47	B-VPD4×20E□6
4×30		47.5	B-VPD4×30E□6
5×10		46.5	B-VPD5×10E□6
5×20		47	B-VPD5×20E□6
5×30		47.5	B-VPD5×30E□6
6×10		46.5	B-VPD6×10E□6
6×20		47	B-VPD6×20E□6
6×30		47.5	B-VPD6×30E□6
8×20		47	B-VPD8×20E□6
8×30		47.5	B-VPD8×30E□6

弹簧式直接安装型(B-VPF) Spring type direct mount (B-VPF)

代码 Code	类型 Type	接管方式 Mode of taking over
B-VPF	弹簧式直接安装型 Spring type direct mount type	螺钉 M 螺孔型 Screw thread type

视图标准: 第一视角
Perspective standard: the first perspective

B-VPF			
直径 d Disc diameter d	弹簧最大负载 (N) Maximum spring load (N)	重量 Weight (g)	订购型号 Order model
4×10	7.0-12.6	54	B-VPF4×10E□
4×20		54.5	B-VPF4×20E□
4×30		55	B-VPF4×30E□
5×10		54	B-VPF5×10E□
5×20		54.5	B-VPF5×20E□
5×30		55	B-VPF5×30E□
6×10		54	B-VPF6×10E□
6×20		54.5	B-VPF6×20E□
6×30		55	B-VPF6×30E□
8×20		54	B-VPF8×20E□
8×30		54.5	B-VPF8×30E□

MEMO

B-VP-L series

Ø4, Ø6, Ø8, Ø10, Ø15, Ø20, Ø30, Ø40

Vacuum sucker for thin objects - Vacuum sucker with quick coupling

柔软型真空吸盘 -带快速接头真空吸盘

L (柔软型 Soft type)

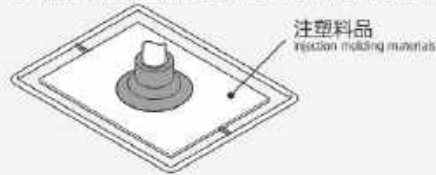


特性 Characteristic

- 最适用于易碎的制品或塑料制品。
- > 吸盘托架形状: 7种 > Pad直径: Ø4mm到Ø40mm
- 新推出的双边搭扣吸盘托架可以实现多个吸盘连接在一起, 从而使用一个真空气源就可以实现过吸盘的同时工作。
- Most suitable for fragile products or plastic products.
- > Suction cup bracket shape: 7 kinds > Pad diameter: Ø4mm to Ø40mm
- The newly introduced double side imbrication suction cup bracket can realize the connection of multiple suction cups, so that the suction cup can work at the same time by using a vacuum air source.

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

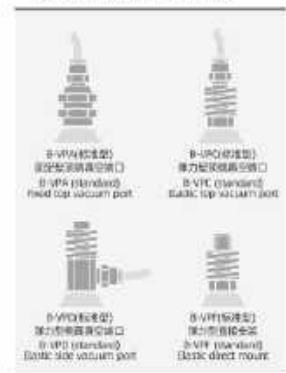
- 通过改变材质使得吸盘托架更加小型化, 并且重量更轻了。
- 现有的吸盘托架 (A和B型) 尺寸进一步缩小, 以达到节约空间的目的。
- 与以往不同的是, 更换吸盘时不必再拆吸盘托架从设备上取下来了。
- 可以选择摆动式吸盘托架和直接安装型过滤器吸盘托架。
- > 吸盘直径: Ø4mm到Ø30mm > 吸盘托架形状: 4种
- > 吸盘的材料: 亚硝酸盐橡胶, 硅橡胶, 氟硅橡胶, 防静电橡胶
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A and B) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Swing type suction cup bracket and direct mounted filter suction cup bracket can be selected.
- > Suction cup diameter: Ø4mm to Ø30mm > Sucker bracket shape: 4 kinds
- > Suction cup materials: nitrile rubber, silicone rubber, fluorosilicone rubber, antistatic rubber



型号表示方式 Model representation

B-VPA 40 L N 6J

① 吸盘托架的类型 Types of suction cup bracket



② 吸盘直径 Suction cup diameter

代码 Code	直径 Diameter	英寸 Inches
4	Ø4	0.16in
6	Ø6	0.24in
8	Ø8	0.31in
10	Ø10	0.39in
15	Ø15	0.59in
20	Ø20	0.79in
30	Ø30	1.18in
40	Ø40	1.57in

④ 吸盘材质 Suction cup Material

符号 Sign	材料 Material
N	丁腈橡胶 Nitrile rubber
S	硅橡胶 Silicone rubber
GS	防静电橡胶 Anti-static silicone
NE	导电丁腈橡胶 Conductive nitrile rubber
F	氟橡胶 / 灰 Fluoro rubber / grey
FS	氟硅橡胶 Fluoro silicone rubber
LH	无痕迹吸盘材料 No trace adhesion countermeasures

* N/S 与标准不同, 需要说明, 其他材料为特殊材料, 需订做。
* GS 是防静电材料, 防静电橡胶, 其他材料为特殊材料, 需订做。

⑤ 接头尺寸和形状 Joint size and shape

符号 Code	吸盘尺寸 Suction cup size	接头类型 Connection type	直径 Diameter (Ø)
6J	Ø4-Ø40	快速接头 Quick coupling	6x4(mm)

* 只提供尺寸较小的托架。
* Only smaller brackets are available.

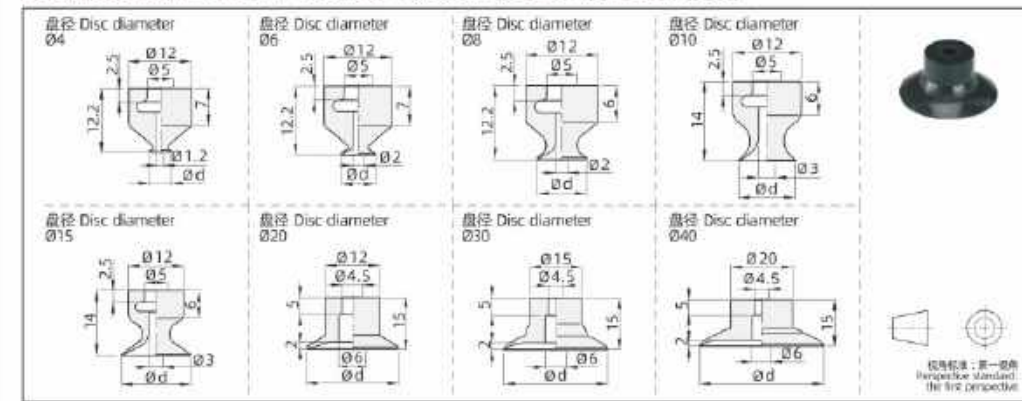
③ 吸盘形状 Suction cup shape

代码 Code	形状 Shape
L	柔软型 Soft type

吸盘直径: Ø4~Ø40 吸盘形状: 柔软型
Suction cup diameter: Ø4-Ø40 Suction cup shape: Soft type

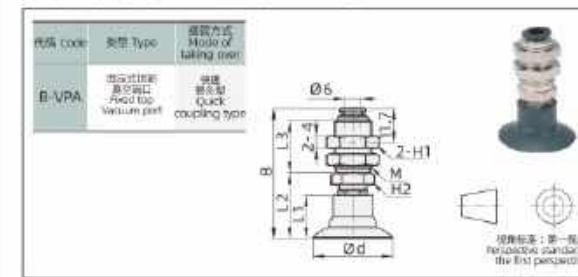
柔软型真空吸盘 (单件/组件) Flexible vacuum sucker (single piece / component)

柔软型真空吸盘 (单件) Flexible vacuum sucker (single piece)



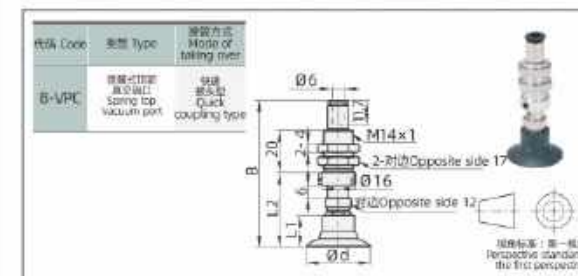
B-VP	
吸盘直径 Suction diameter	订货型号 Order model
4	B-VP4L□
6	B-VP6L□
8	B-VP8L□
10	B-VP10L□
15	B-VP15L□
20	B-VP20L□
30	B-VP30L□
40	B-VP40L□

柔软型真空吸盘组件 (B-VPA) Flexible vacuum sucker assembly (B-VPA)



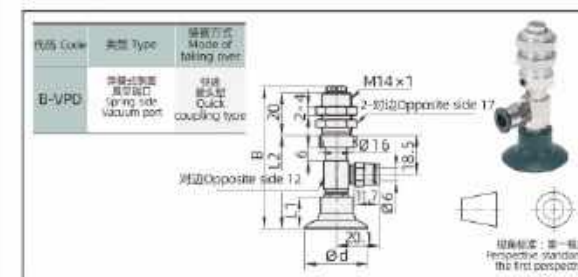
B-VPA									
吸盘直径 Suction diameter	B	M	L1	L2	L3	最大吸力 (N) Max. suction force	最大行程 (mm) Max. stroke	重量 Weight	订货型号 Order model
4	40.4	M12x1	12.2	18.3		9.5		9.5	B-VPA4L□6J
6	40.4	M12x1	12.2	18.3		16		16	B-VPA6L□6J
8	40.4	M12x1	12.2	18.3	18.5	14	12	16	B-VPA8L□6J
10	42.2		14	20.1		24.5		24.5	B-VPA10L□6J
15	42.2		14	20.1		24.5		24.5	B-VPA15L□6J
20	44.8		15	22.7		40.5		40.5	B-VPA20L□6J
30	44.8	M14x1	15	22.7	18	43.5		43.5	B-VPA30L□6J
40	44.8		15	22.7		50		50	B-VPA40L□6J

柔软型真空吸盘组件 (B-VPC) Flexible vacuum cup assembly (B-VPC)



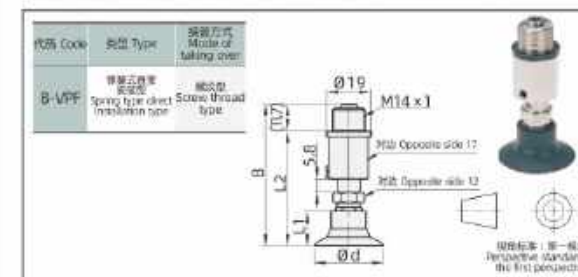
B-VPC							
吸盘直径 Suction diameter	B	L1	L2	最大吸力 (N) Maximum suction force	重量 Weight	订货型号 Order model	
4	66.4	12.2	32.3	20.5	20.5	B-VPC4L□6J	
6	66.4	12.2	32.3	4.0-7.1	22	B-VPC6L□6J	
8	66.4	12.2	32.3	22	22	B-VPC8L□6J	
10	68.2	14	34.1	39	39	B-VPC10L□6J	
15	68.2	14	34.1	39	39	B-VPC15L□6J	
20	69.2	15	35.1	7.0-12.6	43.5	B-VPC20L□6J	
30	69.2	15	35.1	47	47	B-VPC30L□6J	
40	69.2	15	35.1	53.5	53.5	B-VPC40L□6J	

柔软型真空吸盘组件 (B-VPD) Flexible vacuum cup assembly (B-VPD)



B-VPD						
吸盘直径 Suction diameter	B	L1	L2	最大吸力 (N) Maximum suction force	重量 Weight	订货型号 Order model
4	66.4	12.2	41.3	17	17	B-VPD4L□6J
6	66.4	12.2	41.3	4.0-7.1	19	B-VPD6L□6J
8	66.4	12.2	41.3	19	19	B-VPD8L□6J
10	66.2	14	43.1	51	51	B-VPD10L□6J
15	66.2	14	43.1	51	51	B-VPD15L□6J
20	67.2	15	44.1	7.0-12.6	55.5	B-VPD20L□6J
30	67.2	15	44.1	58.5	58.5	B-VPD30L□6J
40	67.2	15	44.1	65	65	B-VPD40L□6J

柔软型真空吸盘组件 (B-VPF) Flexible vacuum cup assembly (B-VPF)



B-VPF						
吸盘直径 Suction diameter	B	L1	L2	最大吸力 (N) Maximum suction force	重量 Weight	订货型号 Order model
4	57.3	12.2	45.6	18	18	B-VPF4L□
6	57.3	12.2	45.6	4.0-7.1	18	B-VPF6L□
8	57.3	12.2	45.6	18	18	B-VPF8L□
10	59.1	14	47.4	7.9-15.0	59	B-VPF10L□
15	59.1	14	47.4	59	59	B-VPF15L□
20	61.1	15	49.4	62.5	62.5	B-VPF20L□
30	61.1	15	49.4	62.5	62.5	B-VPF30L□
40	61.1	15	49.4	72	72	B-VPF40L□

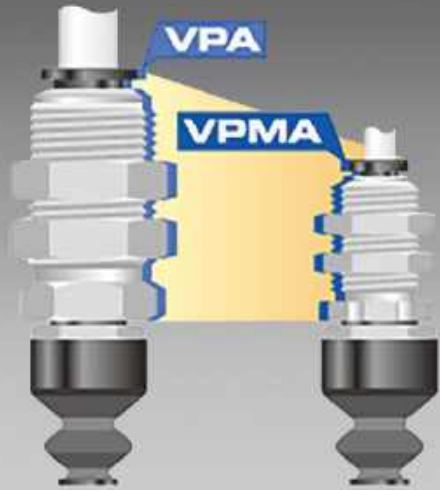
B-VP-LB series

Ø6, Ø8, Ø10, Ø15, Ø20

Flexible bellows vacuum sucker - Vacuum sucker with quick coupling

柔软波纹风箱型真空吸盘 -带快速接头真空吸盘

LB(柔软波纹风箱型 Soft bellows)

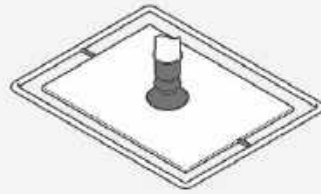


特性 Characteristic

- 最适用于易碎的制品或塑料制品。
- 吸盘直径: Ø6mm到Ø20 >吸盘托架形状: 8种
- 新推出的吸盘托架, 可以连接多个吸盘到一个真空源上。
- Most suitable for fragile products or plastic products.
- Diameter of suction cup: Ø6mm to Ø20mm >Sucker bracket shape: 8 kinds
- The newly introduced suction cup bracket can connect multiple suction cups to a vacuum source.

尺寸较小的真空吸盘托架 Smaller vacuum cup bracket

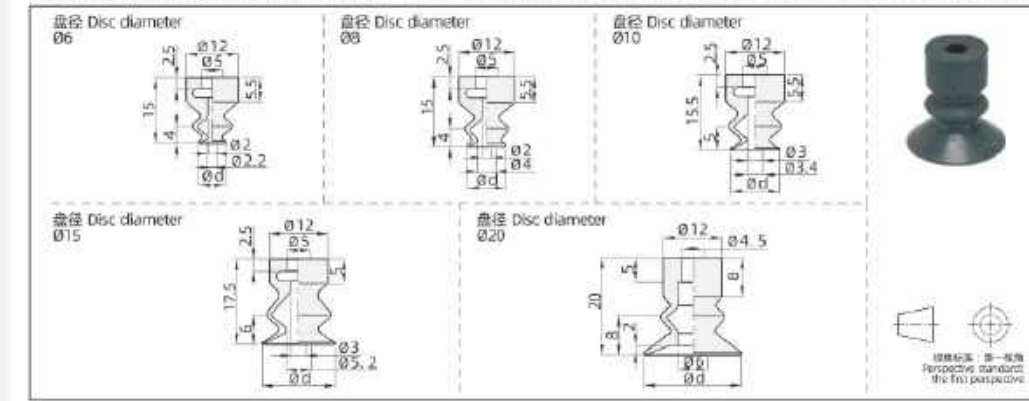
- 通过改变材料而使吸盘托架更加小型化, 并且重量更轻了。
- 现有的吸盘托架 (A, B, C和D型) 尺寸进一步缩小, 以达到节约空间的目的。
- 与以往不同的是, 更换吸盘时不必再拆吸盘托架从设备上取下来了。
- 可以选择滑动式吸盘托架和直接安装型过滤器吸盘托架。
- 吸盘直径: Ø6mm到Ø20 >吸盘托架形状: 4种
- 吸盘的材料: 亚精耐油橡胶, 硅橡胶
- By changing the material, the suction cup bracket becomes smaller and lighter.
- The size of the existing suction cup bracket (type A, B, C and D) is further reduced to achieve the purpose of saving space.
- Different from the past, when replacing the suction cup, it is no longer necessary to remove the suction cup bracket from the equipment.
- Diameter of suction cup: 6mm to 20mm > Sucker bracket shape: 4 kinds
- Material of suction cup: nitrile rubber, silicone rubber



吸盘直径: Ø6~Ø20 吸盘形状: 柔软波纹风箱型
Suction cup diameter: Ø6~Ø20 Suction cup shape: Soft bellows

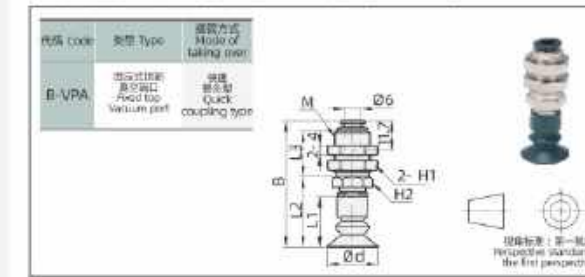
柔软波纹风箱型真空吸盘 (单件/组件) Soft corrugated bellows type vacuum suction cup (single piece / component)

柔软波纹风箱型真空吸盘 (单件) Soft corrugated bellows type vacuum suction cup (single piece)



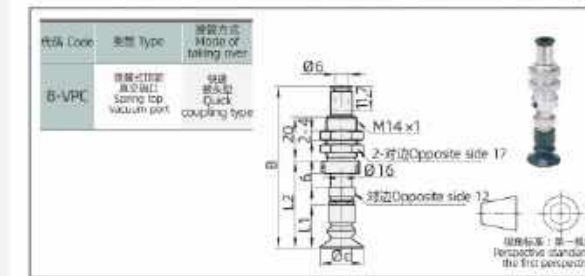
吸盘直径 Suction diameter Ø	订货型号 (Order model)
6	B-VP6LB□
8	B-VP8LB□
10	B-VP10LB□
15	B-VP15LB□
20	B-VP20LB□

柔软波纹风箱型真空吸盘组件 (B-VPA) Soft corrugated bellows type vacuum suction cup assembly (B-VPA)



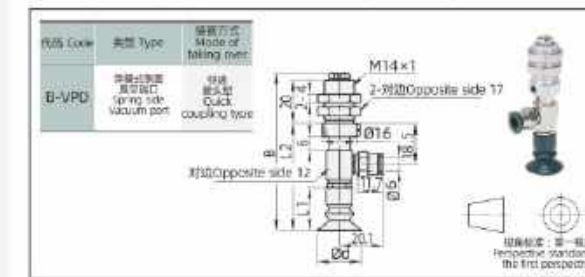
吸盘直径 (Suction diameter)	B	M	L ₁	L ₂	L ₃	最大弹簧力 (N) Max. spring load (N)	重量 (Weight)	订货型号 (Order model)	
6	43.2		15	21.1			16	B-VPA6LB□6J	
8	43.2		15	21.1	18.5	14	12	16	B-VPA8LB□6J
10	43.7	M12×1	15.5	21.6				24.5	B-VPA10LB□6J
15	45.7		17.5	23.6				25	B-VPA15LB□6J
20	49.8	M14×1	20	27.7	18	17	14	40.5	B-VPA20LB□6J

柔软波纹风箱型真空吸盘组件 (B-VPC) Soft corrugated bellows type vacuum suction cup assembly (B-VPC)



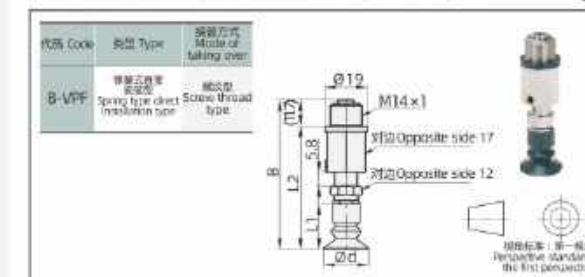
吸盘直径 (Suction diameter)	B	L ₁	L ₂	最大弹簧力 (N) Max. spring load (N)	重量 (Weight)	订货型号 (Order model)
6	69.2	15	35.1		22	B-VPC6LB□6J
8	69.2	15	35.1	4.0-7.1	22	B-VPC8LB□6J
10	69.7	15.5	35.6		39	B-VPC10LB□6J
15	71.7	17.5	37.6		39.5	B-VPC15LB□6J
20	74.2	20	40.1	7.0-12.6	43.5	B-VPC20LB□6J

柔软波纹风箱型真空吸盘组件 (B-VPD) Soft corrugated bellows type vacuum suction cup assembly (B-VPD)



吸盘直径 (Suction diameter)	B	L ₁	L ₂	最大弹簧力 (N) Max. spring load (N)	重量 (Weight)	订货型号 (Order model)
6	67.2	15	44.1		19	B-VPD6LB□6J
8	67.2	15	44.1	4.0-7.1	19	B-VPD8LB□6J
10	67.7	15.5	44.6		51	B-VPD10LB□6J
15	69.7	17.5	46.6		51.5	B-VPD15LB□6J
20	72.2	20	49.1	7.0-12.6	55.5	B-VPD20LB□6J

柔软波纹风箱型真空吸盘组件 (B-VPF) Soft corrugated bellows type vacuum suction cup assembly (B-VPF)



吸盘直径 (Suction diameter)	B	L ₁	L ₂	最大弹簧力 (N) Max. spring load (N)	重量 (Weight)	订货型号 (Order model)
6	61.1	15	48.4		18	B-VPF6LB□
8	60.1	15	48.4	7.9-15.0	18	B-VPF8LB□
10	60.6	15.5	48.9		59	B-VPF10LB□
15	62.6	17.5	50.9		59.5	B-VPF15LB□
20	66.1	20	54.4		62.5	B-VPF20LB□

型号表示方式 Model representation

B-VPA 10 LB N 6J

- 吸盘托架的类型
Types of suction cup bracket
- 吸盘直径
Suction cup diameter
- 吸盘形状
Suction cup shape
- 吸盘材质
Suction cup Material
- 接头尺寸和形状
Joint size and shape

代码 Code	吸盘直径 Suction diameter	吸盘形状 Suction cup shape	材料 Material	接头尺寸 Suction cup size	接头类型 Connection type	接头直径 Joint diameter (Quick coupling)
6	Ø6	柔软波纹风箱型 Soft bellows	N 丁腈橡胶 Nitrile rubber	6J	快速接头 Quick coupling	6x4(mm)
8	Ø8		S 硅橡胶 Silicone rubber			
10	Ø10		GS 防静电硅胶 Anti-static silicone			
15	Ø15		NE 导电硅胶 Conductive silicone rubber			
20	Ø20		F 氟橡胶/聚 氟橡胶/聚 醚橡胶/聚 酰亚胺橡胶 Fluoro rubber / poly ether ether ether rubber / polyimide rubber			
			PS 氟橡胶 Fluoro rubber			
			LH 亚精耐油橡胶 Nitrile rubber			

* N: 5号增加材料, 标准库存, 起订量为1000件。
* PS: 1000件。
* NS: 标准材料, 标准库存, 起订量为1000件。
* LH: 特殊材料, 起订量为1000件。

B-VP-S series

Ø10, Ø15, Ø20, Ø25, Ø30, Ø35, Ø50

Sponge type vacuum suction cup

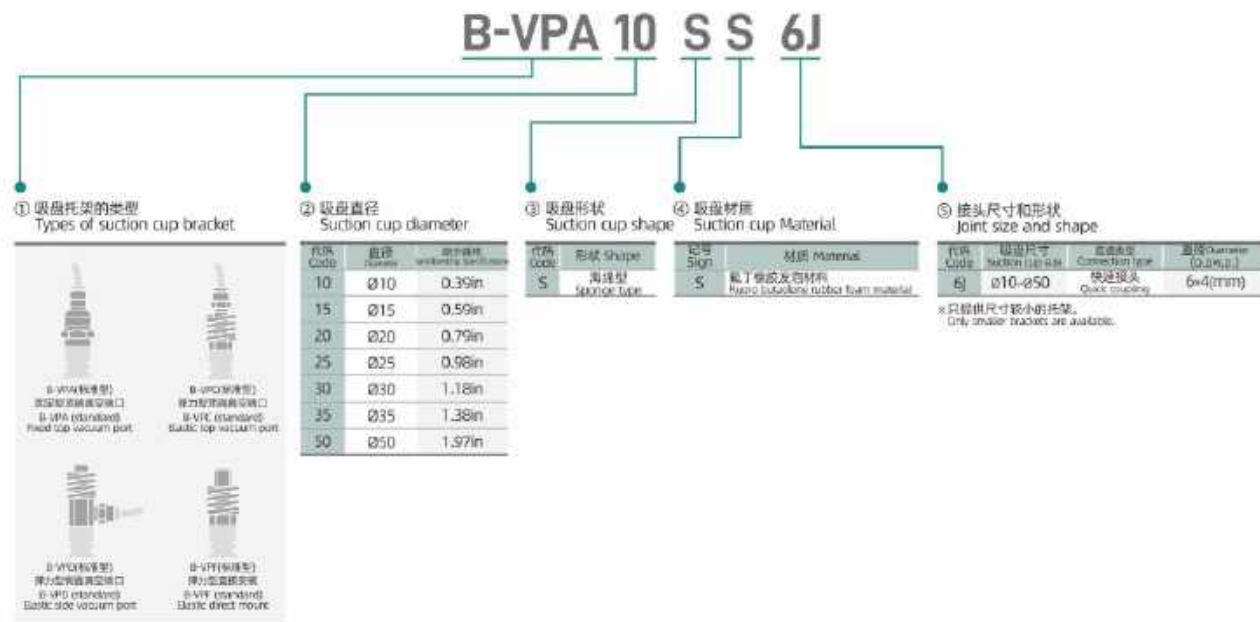
海绵型真空吸盘



特性 Characteristic

- 最适合于表面凹凸不平的工作件。
- >吸盘尺寸: Ø10mm~50mm
- Most suitable for workpieces with uneven surfaces.
- > Suction cup size: Ø10mm~50mm
- 尺寸较小的真空吸盘托架 Smaller vacuum cup bracket
- 通过改变材质使得吸盘托架更加小型化, 并且重量更轻了。
- 现有的吸盘托架 (A,BC和D型)尺寸进一步缩小。以达到节约空间的目的。
- 与以往不同的是,更换吸盘时不必再将吸盘托架从设备上取下来了。
- 可以选择摆动式吸盘托架和直接安装型过滤器吸盘托架。
- >吸盘直径: Ø10mm到Ø50 >吸盘托架形状: 4种
- >吸盘的材料: 亚硝酸盐橡胶, 硅橡胶
- By changing the material, the suction cup holder has become smaller and lighter in weight.
- The size of the existing suction cup brackets (A,BC and D-type) has been further reduced. To achieve the goal of saving space.
- Unlike before, there is no need to remove the suction cup holder from the device when replacing the suction cup.
- You can choose between a swinging suction cup bracket and a direct installation filter suction cup bracket.
- > Diameter of suction cup: Ø10mm to Ø50mm >Sucker bracket shape: 4 kinds
- > Material of suction cup: nitrite rubber, silicone rubber

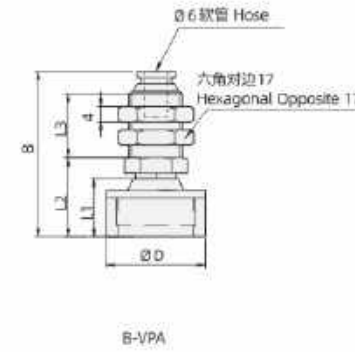
型号表示方式 Model representation



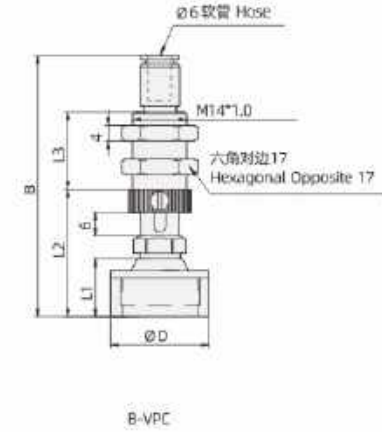
吸盘直径: Ø10~Ø50 吸盘形状: 海绵型
Suction cup diameter: Ø10-Ø50 Suction cup shape: Sponge type

海绵型真空吸盘 (单件/组件) Sponge type vacuum suction cup (single piece / component)

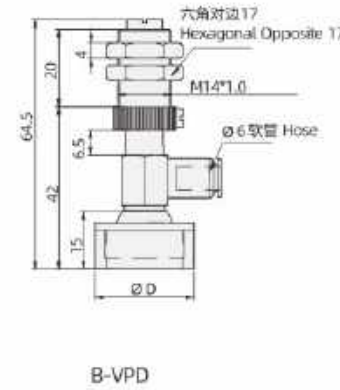
固定式顶部真空端口 Fixed top vacuum port



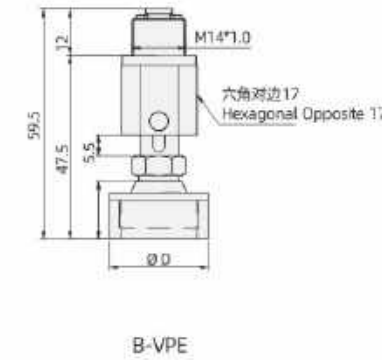
弹簧式顶部真空端口 Spring top vacuum port



弹簧式侧面真空端口 Spring type side vacuum port



弹簧式直接安装型 Spring type direct mount type



B-VPA 固定式顶部真空端口 Fixed top vacuum port

直径 Ø Disc diameter (mm)	B	L1	L2	订购型号 Order model
10	36.7	9	14.5	B-VPA10S □6J
15	36.7	9	14.5	B-VPA15S □6J
20	42.7	15	20.5	B-VPA20S □6J
25	42.7	15	20.5	B-VPA25S □6J
30	42.7	15	20.5	B-VPA30S □6J
35	57.1	29.4	34.9	B-VPA35S □6J
50	57.1	29.4	34.9	B-VPA50S □6J

B-VPC 弹簧式顶部真空端口 Spring top vacuum port

直径 Ø Disc diameter (mm)	B	L1	L2	订购型号 Order model
10	61.5	9	27	B-VPC10S □6J
15	61.5	9	27	B-VPC15S □6J
20	67.5	15	33	B-VPC20S □6J
25	67.5	15	33	B-VPC25S □6J
30	67.5	15	33	B-VPC30S □6J
35	81.9	29.4	47.4	B-VPC35S □6J
50	81.9	29.4	47.4	B-VPC50S □6J

B-VPD 弹簧式侧面真空端口 Spring type side vacuum port

直径 Ø Disc diameter (mm)	B	L1	L2	订购型号 Order model
10	58.5	9	36	B-VPD10S □6J
15	58.5	9	36	B-VPD15S □6J
20	64.5	15	42	B-VPD20S □6J
25	64.5	15	42	B-VPD25S □6J
30	64.5	15	42	B-VPD30S □6J
35	78.9	29.4	56.4	B-VPD35S □6J
50	78.9	29.4	56.4	B-VPD50S □6J

B-VPF 弹簧式直接安装型 Spring type direct mount type

直径 Ø Disc diameter (mm)	B	L1	L2	订购型号 Order model
10	53.5	9	41.5	B-VPF10S □
15	53.5	9	41.5	B-VPF15S □
20	59.5	15	47.5	B-VPF20S □
25	59.5	15	47.5	B-VPF25S □
30	59.5	15	47.5	B-VPF30S □
35	73.9	29.4	61.9	B-VPF35S □
50	73.9	29.4	61.9	B-VPF50S □

SR series

Ø6, Ø9, Ø12, Ø15, Ø20, Ø30, Ø40

Ripple light vacuum suction cup

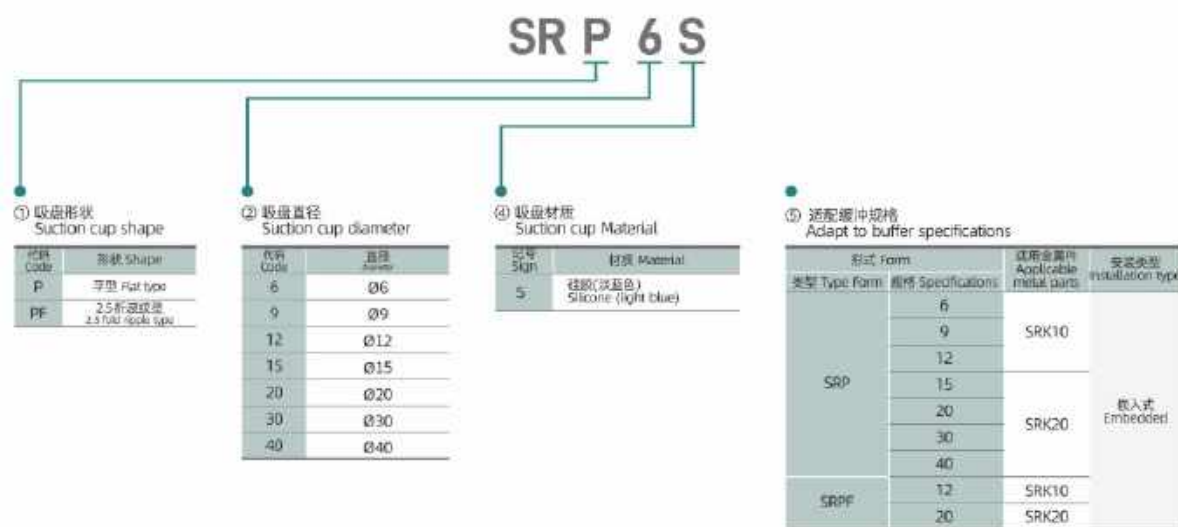
波纹轻型真空吸盘



特性 Characteristic

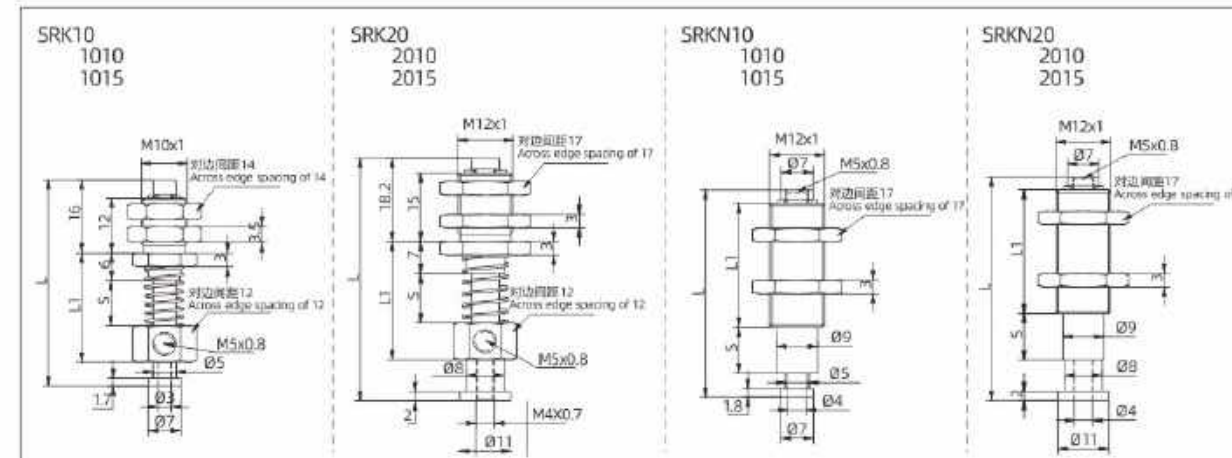
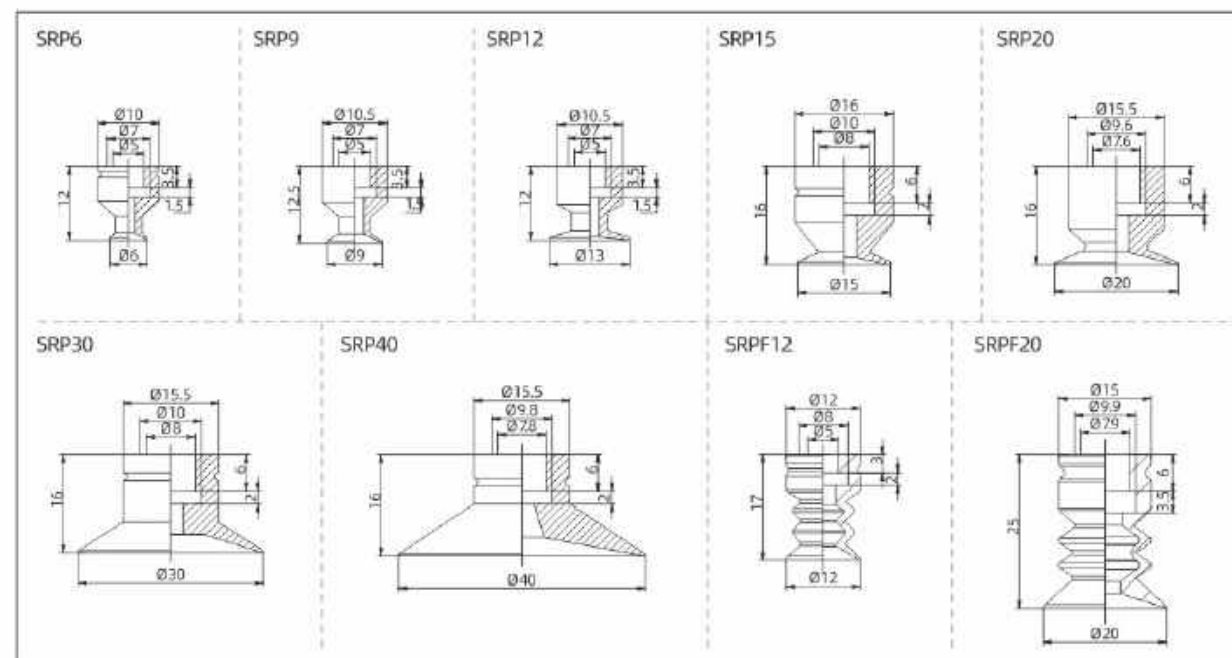
- 最适合于表面凹凸不平的工作件。
- >吸盘尺寸: Ø10mm~50mm
- Most suitable for workpieces with uneven surfaces.
- >Suction cup size: Ø10mm~50mm
- 尺寸较小的真空吸盘托架 Smaller vacuum cup bracket
- 通过改变材质使得吸盘托架更加小型化, 并且重量更轻了。
- 现有的吸盘托架 (A,BC和D型)尺寸进一步缩小。以达到节约空间的目的。
- 与以往不同的是,更换吸盘时不必再将吸盘托架从设备上取下来了。
- 可以选择摆动式吸盘托架和直接安装型过滤器吸盘托架。
- >吸盘直径: Ø10mm到Ø50mm >吸盘托架形状: 4种
- >吸盘的材料: 亚硝酸盐橡胶, 硅橡胶
- By changing the material, the suction cup holder has become smaller and lighter in weight.
- The size of the existing suction cup brackets (A,BC and D-type) has been further reduced. To achieve the goal of saving space.
- Unlike before, there is no need to remove the suction cup holder from the device when replacing the suction cup.
- You can choose between a swinging suction cup bracket and a direct installation filter suction cup bracket.
- > Diameter of suction cup: Ø10mm to Ø50mm >Sucker bracket shape: 4 kinds
- > Material of suction cup: nitrite rubber, silicone rubber

型号表示方式 Model representation



吸盘直径: Ø6~Ø40 吸盘形状: 波纹轻型
Suction cup diameter: Ø6~Ø40 Suction cup shape: Ripple light

波纹轻型真空吸盘 (单件/组件) Ripple light vacuum suction cup (single piece / component)



形式 Form		行程 Stroke S	L	L1	弹簧 Spring		适用吸盘 Applicable suction cups
类型 Type	规格 Specifications				弹簧常数 Spring constant	最大负荷 Maximum load	
SRK	10	5	40	19	0.55kgf	SRP6~12 SRPF12	
	1010	10	45	24			
	1015	15	50	29			
	20	5.8	48	20.8			SRP15~40 SRPF20
	2010	10.8	53	25.8			
	2015	15.8	58	30.8			
SRKN	10	5	35	22	0.55kgf	SRP6~12 SRPF12	
	1010	10	45	27			
	1015	15	55	32			
	20	5	39	22			SRP15~40 SRPF20
	2010	10	49	27			
	2015	15	59	32			

MEMO



PF series

深凹型真空吸盘

Deep concave vacuum suction cup

000 · PF 深凹型真空吸盘 Deep concave vacuum suction cup



PF series

Ø2, Ø3.5, Ø6, Ø8, Ø10, Ø15, Ø20, Ø25, Ø30, Ø35, Ø40

Deep concave vacuum suction cup

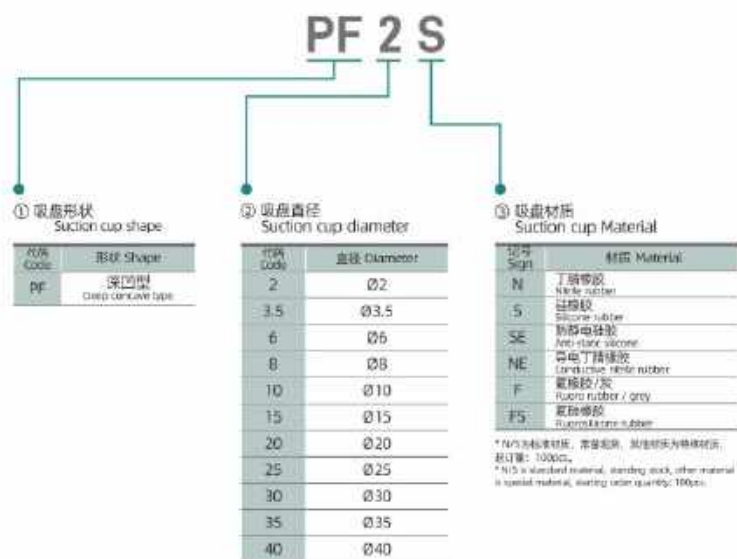
深凹型真空吸盘



特性 Characteristic

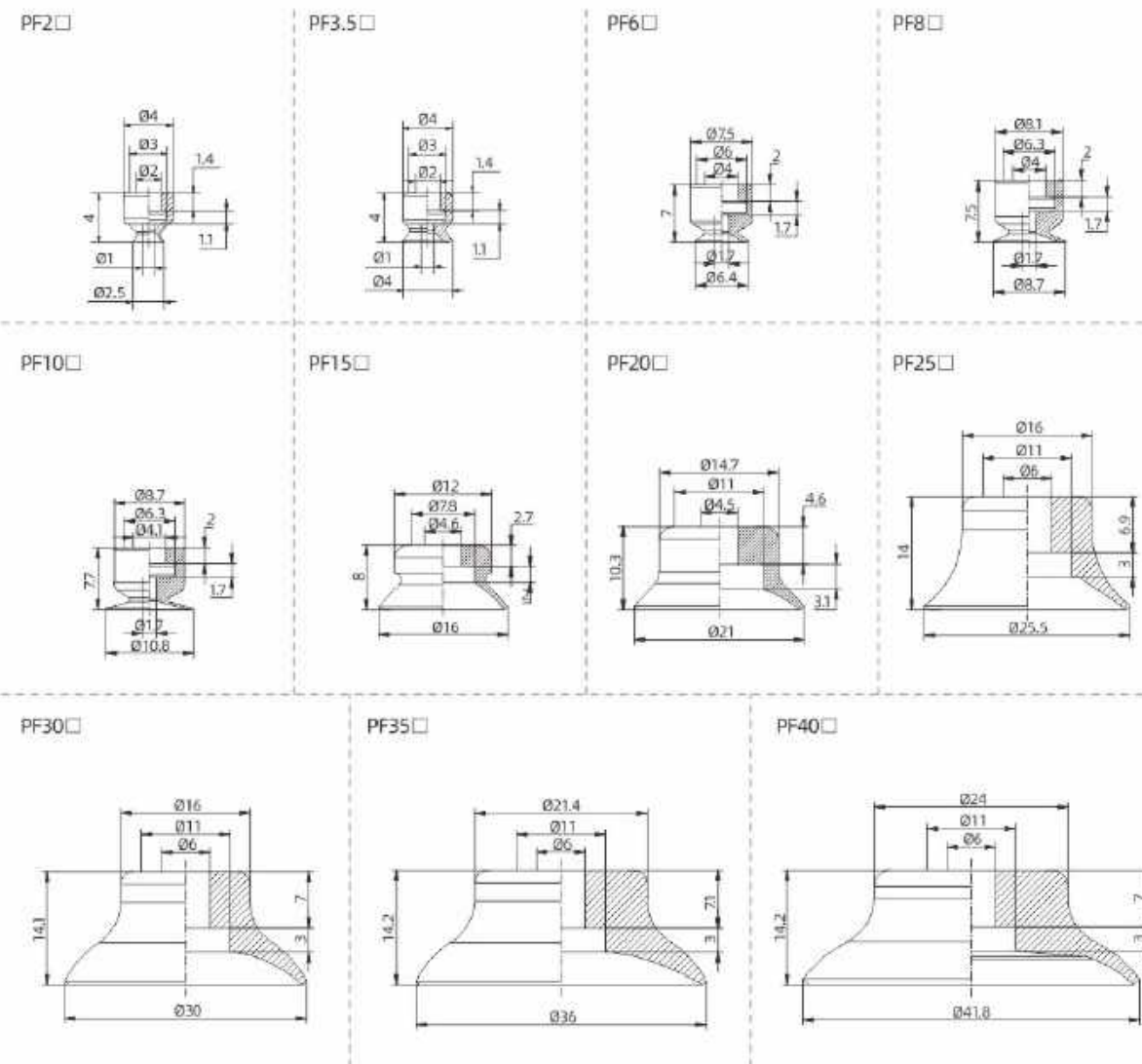
- 适用各种表面光滑不变形的产品;
- 能进行无痕处理, 消除产品表面吸盘印, 提高产品外观一致性;
- 能进行防静电处理, 适用于多种特殊工况;
- Suitable for various products with smooth and non deformable surfaces;
- Can perform traceless processing, eliminate suction cup marks on the surface of the product, and improve product appearance consistency;
- Capable of anti-static treatment, suitable for various special working conditions;

型号表示方式 Model representation



吸盘直径: Ø2~Ø40 吸盘形状: 深凹型
 Suction cup diameter: Ø2~Ø40 Suction cup shape: Deep concave type

深凹型真空吸盘 (单件/组件) Deep concave vacuum suction cup (single piece / component)



PF series

Ø2, Ø3.5, Ø6, Ø8, Ø10, Ø15, Ø20, Ø25, Ø30, Ø35, Ø40

Deep concave vacuum suction cup

深凹型真空吸盘

特性 Characteristic

- 适用各种表面光滑不变形的产品;
 - 能进行无痕处理, 消除产品表面吸盘印, 提高产品外观一致性;
 - 能进行防静电处理, 适用于多种特殊工况;
- Suitable for various products with smooth and non deformable surfaces;
 - Can perform traceless processing, eliminate suction cup marks on the surface of the product, and improve product appearance consistency;
 - Capable of anti-static treatment, suitable for various special working conditions;

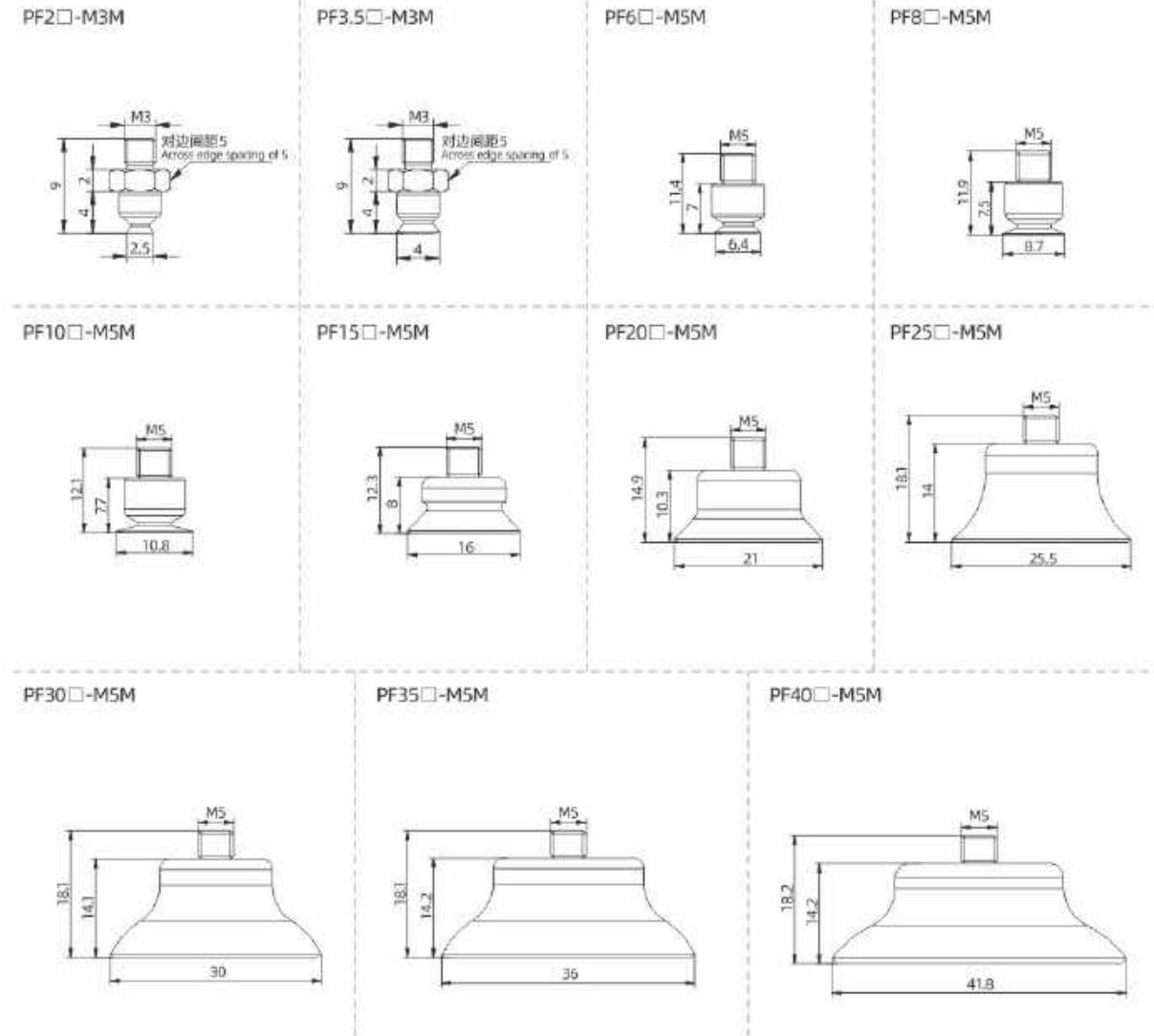


型号表示方式 Model representation



吸盘直径: Ø2~Ø40 吸盘形状: 深凹型
Suction cup diameter: Ø2~Ø40 Suction cup shape: Deep concave type

深凹型真空吸盘 (单件/组件) Deep concave vacuum suction cup (single piece / component)



MEMO



PA series

薄物型真空吸盘

Thin vacuum suction cup

107 · PA 薄物型真空吸盘 Thin vacuum suction cup



PA series

Ø10, Ø15, Ø20, Ø25

Thin vacuum suction cup

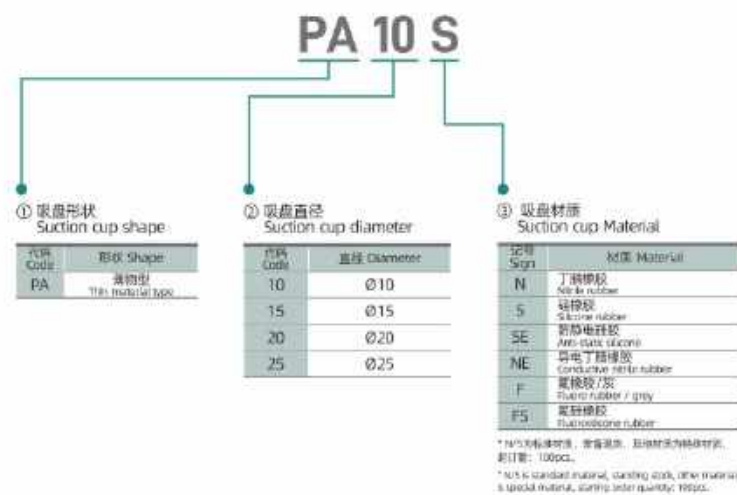
薄物型真空吸盘



特性 Characteristic

- 底部采用纹路设计，可在吸附时有支撑作用，使得工件不易变形；
- 能进行无痕处理，消除产品表面吸盘印，提高产品外观一致性；
- 能进行防静电处理，适用于多种特殊工况；
- 主要适用于薄型工件，如注塑件等产品。
- The bottom adopts a patterned design, which can provide support during adsorption, making the workpiece less prone to deformation;
- Can perform traceless processing, eliminate suction cup marks on the surface of the product, and improve product appearance consistency;
- Capable of anti-static treatment, suitable for various special working conditions;
- Mainly suitable for thin workpieces, such as injection molded parts and other products.

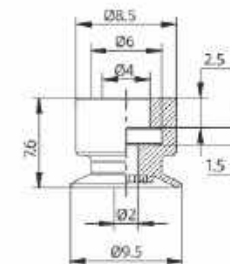
型号表示方式 Model representation



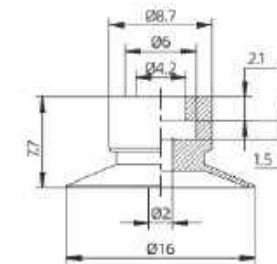
吸盘直径: Ø10~Ø25 吸盘形状: 薄物型
Suction cup diameter: Ø10~Ø25 Suction cup shape: Thin material type

薄物型真空吸盘 (单件/组件) Thin vacuum suction cup (single piece / component)

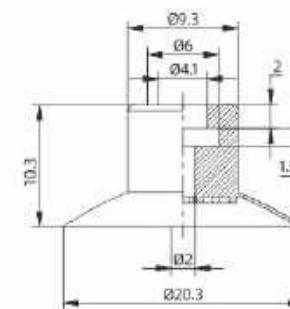
PA10□



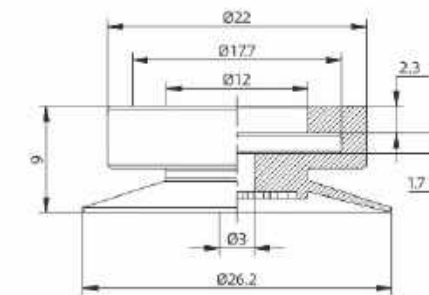
PA15□



PA20□



PA25□



PA series

Ø10, Ø15, Ø20, Ø25

Thin vacuum suction cup

薄物型真空吸盘

特性 Characteristic

- 底部采用纹路设计，可在吸附时有支撑作用，使得工件不易变形；
 - 能进行无痕处理，消除产品表面吸盘印，提高产品外观一致性；
 - 能进行防静电处理，适用于多种特殊工况；
 - 主要适用于薄型工件，如注塑件等产品。
- The bottom adopts a patterned design, which can provide support during adsorption, making the workpiece less prone to deformation;
 - Can perform traceless processing, eliminate suction cup marks on the surface of the product, and improve product appearance consistency;
 - Capable of anti-static treatment, suitable for various special working conditions;
 - Mainly suitable for thin workpieces, such as injection molded parts and other products.



型号表示方式 Model representation



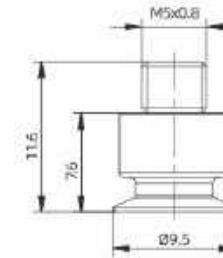
* PA15为防静电型，防静电型，防静电型为防静电型，防静电型。 * It is a static material, static type, other material is special material, static type is not applicable. * It is a static material, static type, other material is special material, static type is not applicable. * It is a static material, static type, other material is special material, static type is not applicable.

吸盘直径: Ø10~Ø25 吸盘形状: 薄物型

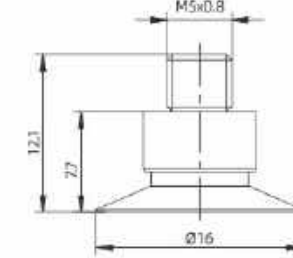
Suction cup diameter: Ø10~Ø25 Suction cup shape: Thin material type

薄物型真空吸盘 (单件/组件) Thin vacuum suction cup (single piece / component)

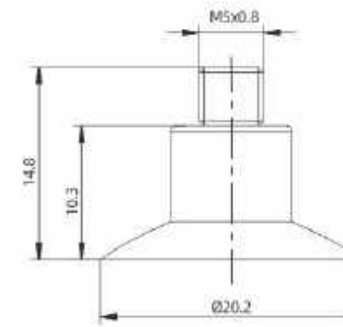
PA10□-M5M



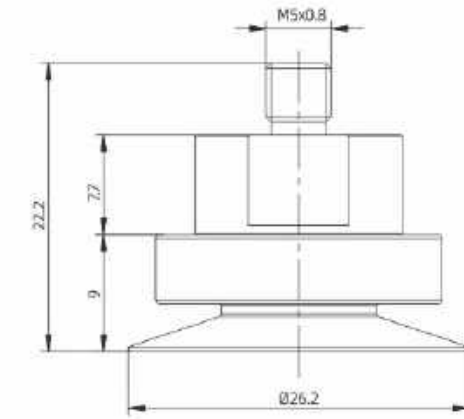
PA15□-M5M



PA20□-M5M



PA25□-M5M



MEMO



PJ series

风琴型真空吸盘

Organ type vacuum suction cup

113 · PJ 风琴型真空吸盘 Organ type vacuum suction cup



PJ series

Ø4, Ø6, Ø8, Ø10, Ø15, Ø20, Ø25, Ø30, Ø35, Ø40

Organ type vacuum suction cup

风琴型真空吸盘

特性 Characteristic

- 1.5折结构, 适用吸附面倾斜的产品;
 - 能进行无痕处理, 消除产品表面吸盘印, 提高产品外观一致性;
 - 能进行防静电处理, 适用于多种特殊工况;
 - 盘底唇边较薄, 适用吸柔软制品。
- 1.5 fold structure, suitable for products with tilted adsorption surfaces;
 - Can perform traceless processing, eliminate suction cup marks on the surface of the product, and improve product appearance consistency;
 - Capable of anti-static treatment, suitable for various special working conditions;
 - The bottom lip edge of the plate is relatively thin, suitable for absorbing soft products.

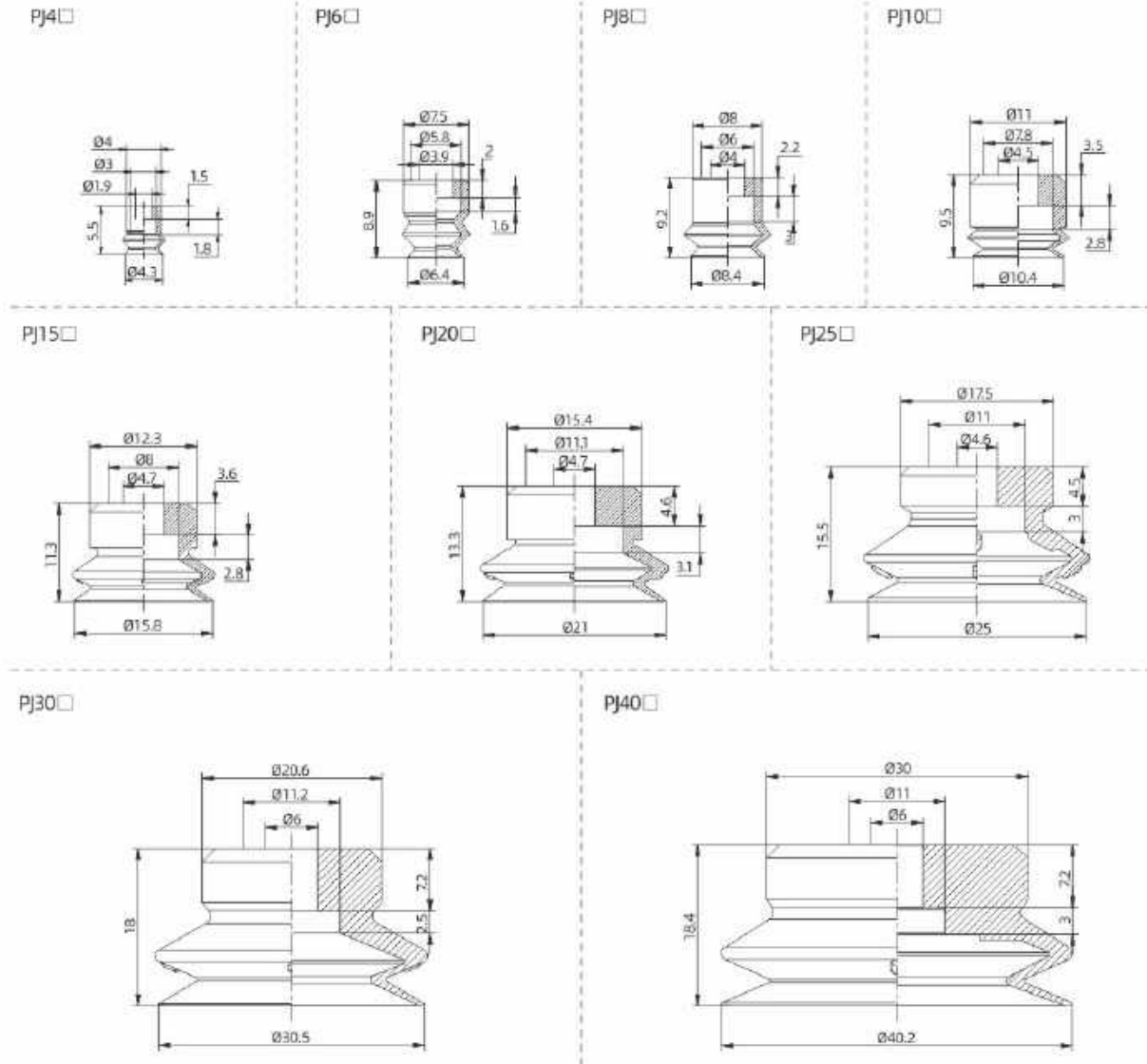


型号表示方式 Model representation



吸盘直径: Ø4~Ø40 吸盘形状: 风琴型
Suction cup diameter: Ø4~Ø40 Suction cup shape: Organ type

风琴型真空吸盘 (单件/组件) Organ type vacuum suction cup (single piece / component)



PJ series

Ø4, Ø6, Ø8, Ø10, Ø15, Ø20, Ø25, Ø30, Ø35, Ø40

Organ type vacuum suction cup

风琴型真空吸盘



特性 Characteristic

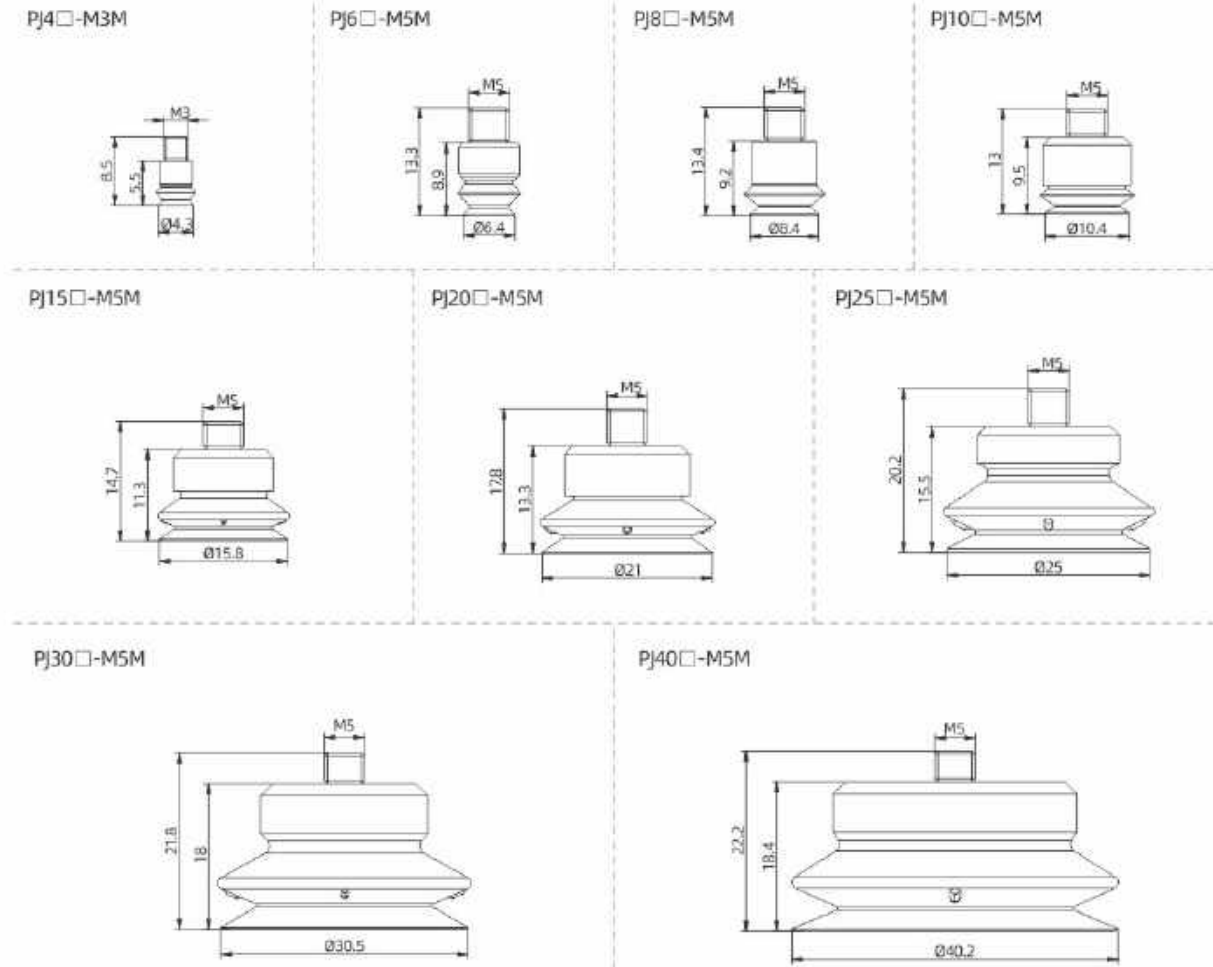
- 1.5折结构, 适用吸附面倾斜的产品;
 - 能进行无痕处理, 消除产品表面吸盘印, 提高产品外观一致性;
 - 能进行防静电处理, 适用于多种特殊工况;
 - 盘底唇边较薄, 适用吸柔软制品。
- 1.5 fold structure, suitable for products with tilted adsorption surfaces;
 - Can perform traceless processing, eliminate suction cup marks on the surface of the product, and improve product appearance consistency;
 - Capable of anti-static treatment, suitable for various special working conditions;
 - The bottom lip edge of the plate is relatively thin, suitable for absorbing soft products.

型号表示方式 Model representation



吸盘直径: Ø4~Ø40 吸盘形状: 风琴型
Suction cup diameter: Ø4~Ø40 Suction cup shape: Organ type

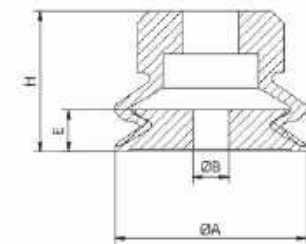
风琴型真空吸盘 (单件/组件) Organ type vacuum suction cup (single piece / component)



J-PK型号表示方式 J-PK Model representation



J-PK尺寸图表 J-PK Dimensional chart



型号 Model	适合设备 Suitable for sucker	A	B	C	D
PJ4□-□-PEEK	PJ4	4.6	1.5	1.9	5.8
PJ6□-□-PEEK	PJ6	6	3	2.6	8.9
PJ8□-□-PEEK	PJ8	9	3	2.5	9.2
PJ10□-□-PEEK	PJ10	10.5	3	2.5	9.5
PJ15□-□-PEEK	PJ15	16	3	3.5	11.8
PJ20□-□-PEEK	PJ20	20	4.5	4	13.8
PJ25□-□-PEEK	PJ25	25	4.5	5	16
PJ30□-□-PEEK	PJ30	31	4.2	5	18.5
PJ40□-□-PEEK	PJ40	40	5.9	6	18.9

MEMO



BP series

1.5折波纹型真空吸盘

1.5 fold corrugated vacuum suction cup



BPT series

Ø10, Ø16

1.5 fold corrugated vacuum suction cup

1.5折波纹型真空吸盘



特性 Characteristic

- 底部轻微弧面以及分布式气孔设计，能防止轻薄类工件变形；
 - 消除产品表面吸盘印，提高产品外观一致性；
 - 1.5折的波纹结构设计，具有一定的缓冲作用；
 - 主要适用于锂电池、薄膜等表面无痕要求高的产品。
- The bottom is designed with a slight curved surface and distributed pores, which can prevent deformation of lightweight workpieces;
 - Eliminating suction cup marks on the surface of the product and improving product appearance consistency;
 - The 1.5 fold corrugated structure design has a certain buffering effect;
 - Mainly suitable for products with high surface scratch requirements such as lithium batteries and thin films.

型号表示方式 Model representation

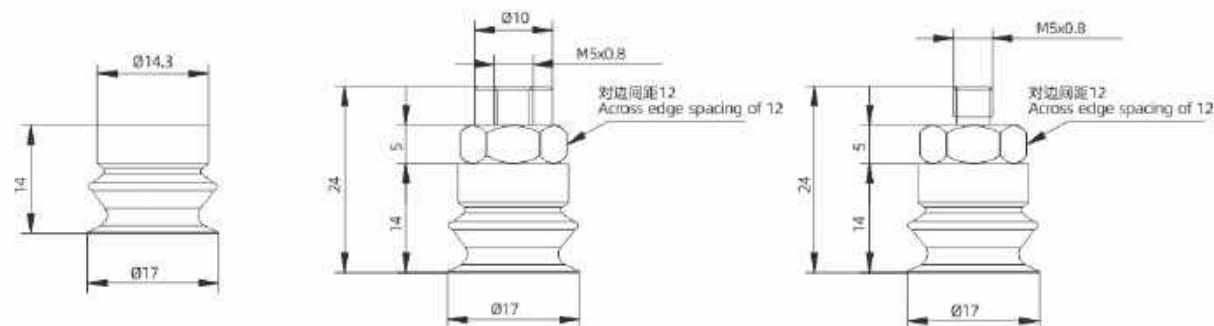


* NCS为定制规格，单独订货，其他规格为特殊材料，起订量：100PCS。
 * NCS is special material, ordering stock, other material is special material, marking order quantity: 100PCS.

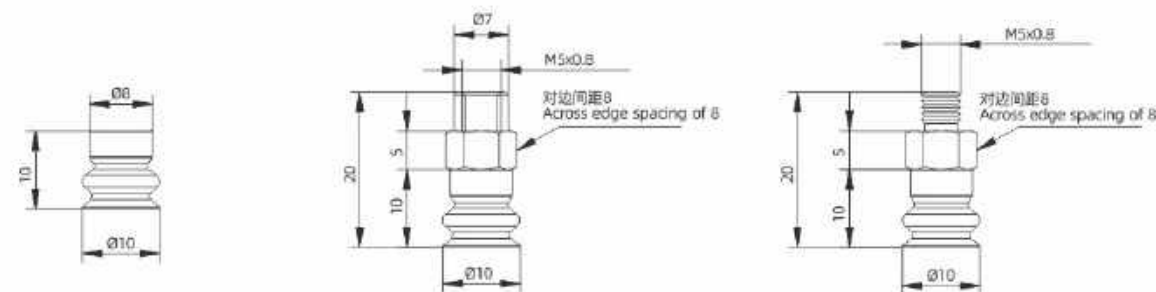
吸盘直径: Ø10~Ø16 吸盘形状: 波纹型
 Suction cup diameter: Ø10~Ø16 Suction cup shape: Corrugated type

1.5折波纹型真空吸盘 (单件/组件) 1.5 fold corrugated vacuum suction cup (single piece / component)

BPT16



BPT10



类型 Type	规格 Specifications	拉托力 Lattoric force N	内部体积 Internal volume cm ³	单重 Single weight R
BPT	10	5	< 0.1	0.5
	16	8	< 0.1	1.3

BPF series

Ø10, Ø15, Ø20, Ø25, Ø30, Ø40

1.5 fold corrugated vacuum suction cup

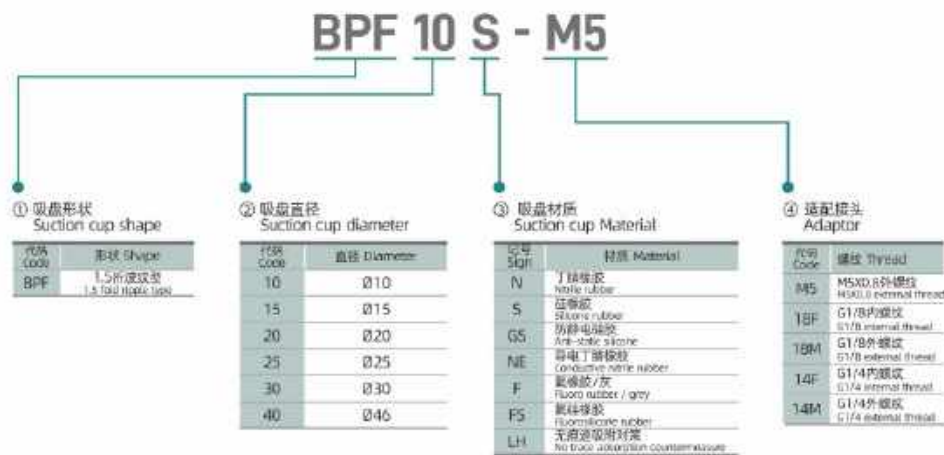
1.5折波纹型真空吸盘



特性 Characteristic

- 底部轻微弧面以及分布式气孔设计，能防止轻薄类工件变形；
- 消除产品表面吸盘印，提高产品外观一致性；
- 1.5折的波纹结构设计，具有一定的缓冲作用；
- 主要适用于锂电池、薄膜等表面无痕要求高的产品。
- The bottom is designed with a slight curved surface and distributed pores, which can prevent deformation of lightweight workpieces;
- Eliminating suction cup marks on the surface of the product and improving product appearance consistency;
- The 1.5 fold corrugated structure design has a certain buffering effect;
- Mainly suitable for products with high surface scratch requirements such as lithium batteries and thin films.

型号表示方式 Model representation

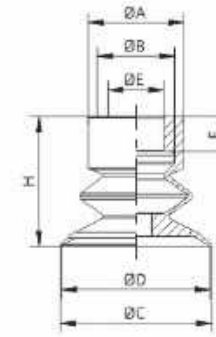


* N/S为常用材料，数量见注，其他材料为特殊材料，数量见注。 100pcs.
 * N/S is standard material, quantity as note, other material is special material, quantity as note. 100pcs.

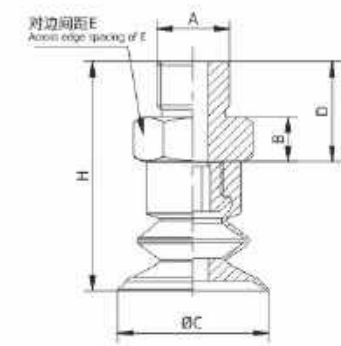
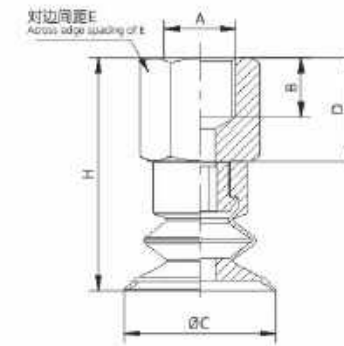
吸盘直径: Ø10~Ø40 吸盘形状: 波纹型

Suction cup diameter: Ø10~Ø40 Suction cup shape: Corrugated type

1.5折波纹型真空吸盘 (单件/组件) 1.5 fold corrugated vacuum suction cup (single piece / component)

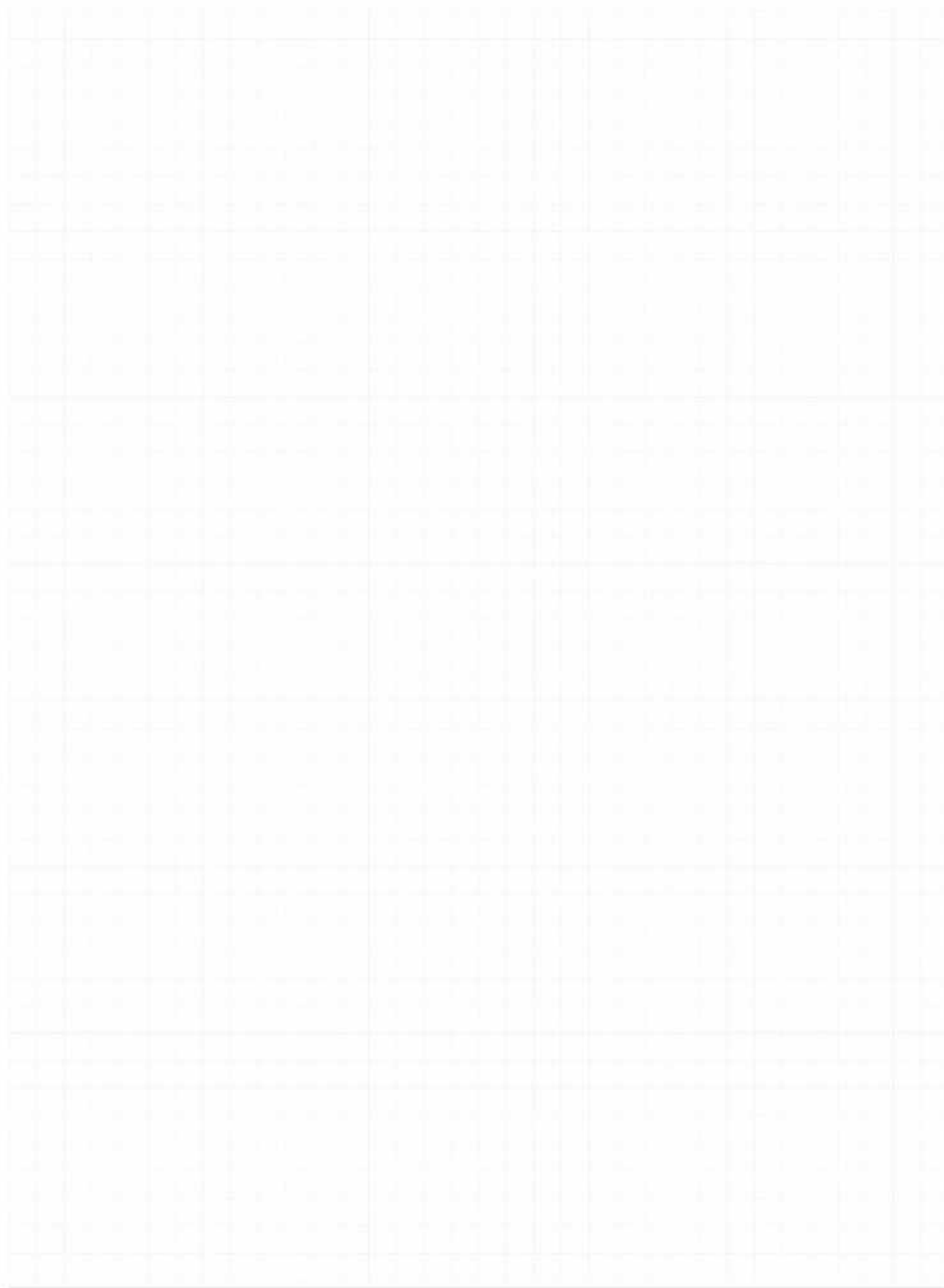


型号 Model	A	B	C	D	E	F	H
BPF10□	8.7	7.3	11	10	5.5	4.2	12.3
BPF15□	12.8	10.4	16	15	7.5	4.7	16
BPF20□			21	20			17.5
BPF25□	13	10.4	26.5	25	7.5	4.7	19.2
BPF30□			31.5	30			20.4
BPF40□	20	17	42	40	11.4	6.6	29.7



型号 Model	A	B	C	D	E	H
BPF10□-M5	M5	5	11	9.7	8	22
BPF15□-M5			16			25.7
BPF15□-1/8F	G1/8	8	16	14	14	30
BPF15□-1/8M				13.5		29.5
BPF20□-1/8F			8	14		31.5
BPF20□-1/8M			6	13.5		31
BPF25□-1/8F	G1/4	8	26.5	14	17	33.2
BPF25□-1/8M				13.5		32.7
BPF30□-1/4F			12	17.3		37.7
BPF30□-1/4M			6	16		36.4
BPF40□-1/4F	G1/4	12	42	17.2	17	46.9
BPF40□-1/4M				16		45.7

MEMO



FUF series

平型带肋吸盘

Flat ribbed suction cup

主要优势 Main advantage

- 可满足高夹持力高剪力要求的高速吸盘，用于快速搬运金属板材和车身零件；
 - 搬运表面涂油的工作；
 - 用于CNC金属和激光切割机的装卸料；
 - 用于拆包机空料搬运；
 - 搬运凸表面工件。
- High-speed suction cups for high clamping force and high shear force for fast handling of sheet metal and body parts;
 - Handling surfaces with oiled workpieces;
 - Used for loading and unloading of CNC metal and laser cutting machines;
 - Used for empty material handling of unpacking machine;
 - Handle convex surface workpieces.



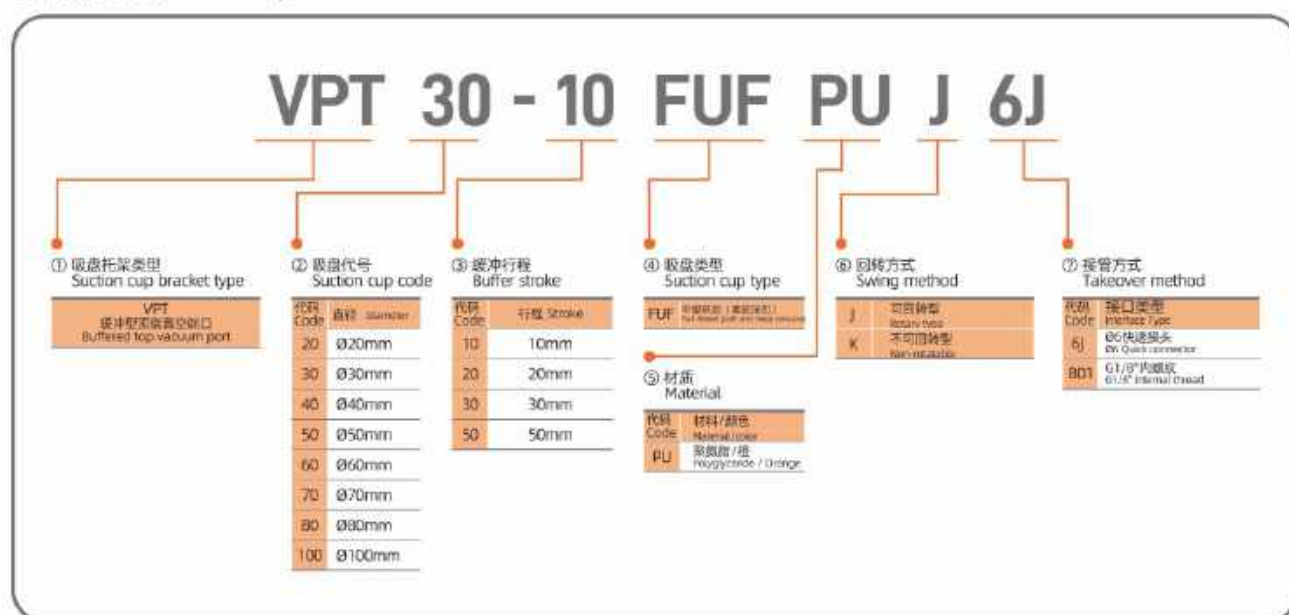
FUF series

Flat ribbed suction cup-Suction cup bracket with cushion type (upright)

平型带肋吸盘-吸盘托架附缓冲型（直立）

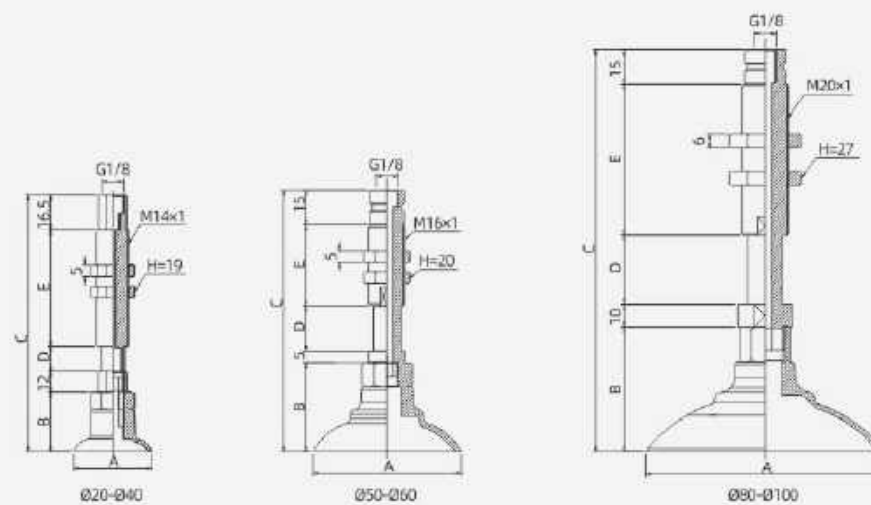


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPT

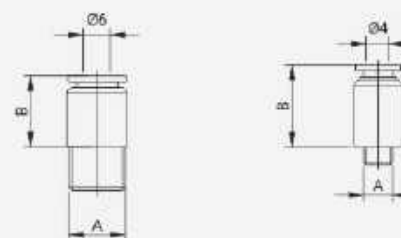


订货代号 Order code							尺寸 Parameter									
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model				
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材料 Material	回转方式 Swing method	接管方式 Takeover method										
VPT	20	10	FUF	PU	J K	6J 8J 8D1	23.5	24.3	113.8	11	50	VPT 20-10 FUF PU ⑥⑦				
		123.8							21	50	VPT 20-20 FUF PU ⑥⑦					
		133.8							31	50	VPT 20-30 FUF PU ⑥⑦					
	30	10					178.8	51	75	VPT 20-50 FUF PU ⑥⑦						
		20					114.5	11	50	VPT 30-10 FUF PU ⑥⑦						
		30					124.5	21	50	VPT 30-20 FUF PU ⑥⑦						
	40	50					134.5	31	50	VPT 30-30 FUF PU ⑥⑦						
		10					179.5	51	75	VPT 30-50 FUF PU ⑥⑦						
		20					116.5	11	50	VPT 40-10 FUF PU ⑥⑦						
	50	30					126.5	21	50	VPT 40-20 FUF PU ⑥⑦						
		50					136.5	31	50	VPT 40-30 FUF PU ⑥⑦						
		10					181.5	51	75	VPT 40-50 FUF PU ⑥⑦						
	60	20					102	10	35	VPT 50-10 FUF PU ⑥⑦						
		30					112	20	35	VPT 50-20 FUF PU ⑥⑦						
		50					135	30	48	VPT 50-30 FUF PU ⑥⑦						
	80	10					173	50	66	VPT 50-50 FUF PU ⑥⑦						
		20					105	10	35	VPT 60-10 FUF PU ⑥⑦						
		30					115	20	35	VPT 60-20 FUF PU ⑥⑦						
	100	50					138	30	48	VPT 60-30 FUF PU ⑥⑦						
		10					176	50	66	VPT 60-50 FUF PU ⑥⑦						
		30					84	46	65	VPT 80-30 FUF PU ⑥⑦						
											103	54	174	30	65	VPT 100-30 FUF PU ⑥⑦

* 单独吸盘托架订购：将材料部分更换为 ()，如：VPT20-10FUF(J)6J
 * Individual suction cup bracket order: replace the material part with (), such as: VPT20-10FUF(J)6J

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-MSC	Ø4	M5	14.5

FUF series

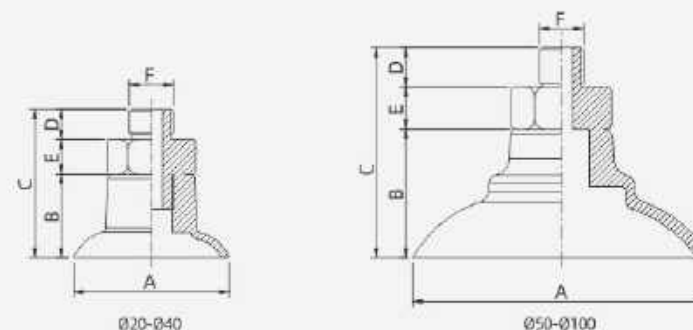
Flat ribbed suction cup-Attached type

平型带肋吸盘-附接头型



尺寸图表(外螺纹) Dimensional chart (external thread)

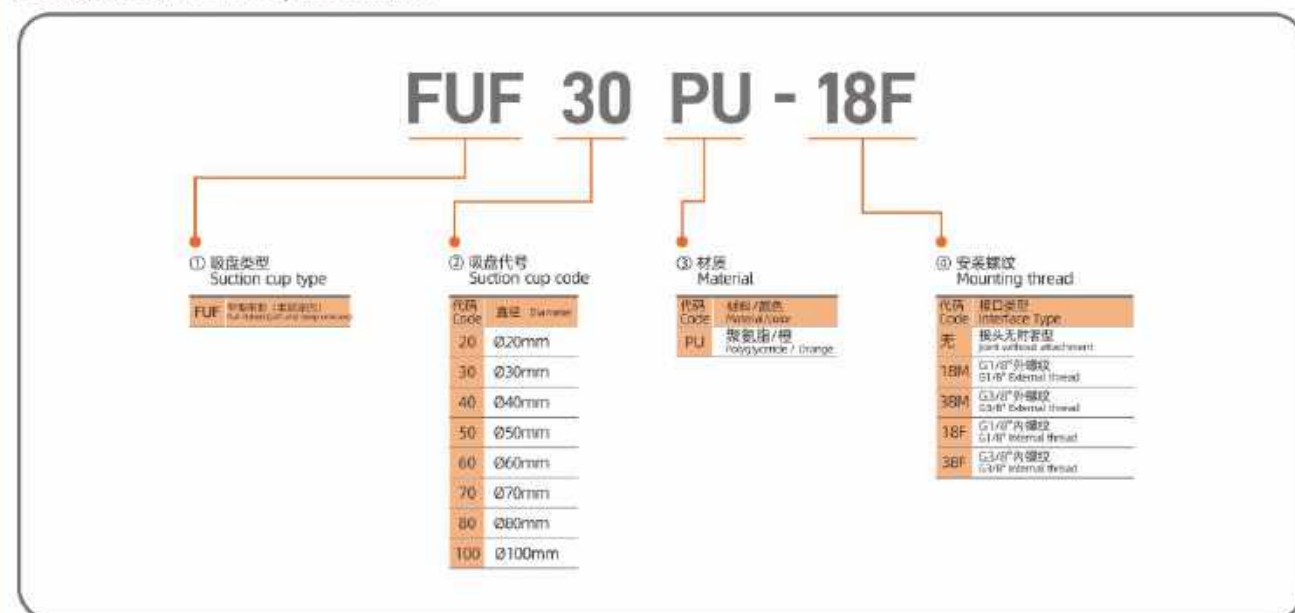
FUF



订购代号 Order code				参数 Parameter						
①	②	③	④	A	B	C	D	E	F	型号 Model
吸盘类型 Suction cup type	吸盘代号 Suction cup code	材质 Material	选配接头 Optional connector							
FUF	20	PU	18M	23.5	16.8	30.8	6.5	7.5	G1/8	FUF20PU-18M
	30			33.5	18	32				FUF30PU-18M
	40			43.5	20.8	34.8				FUF40PU-18M
	50			53	25.8	39.8				FUF50PU-18M
	60			64	27.7	41.7				FUF60PU-18M
	80			84	30.3	44.3				FUF80PU-18M
	100		103	38.5	52.5	10	FUF100PU-18M			
			38M	56.5	G3/8		FUF100PU-38M			

* 单独吸盘托架订购: 将材质部分更换为 (), 如: FUF30()-18M
 * Separate connector order: replace the material part with (), such as: FUF30()-18M

型号表示方式 Model representation



VF series

平型带肋吸盘

Flat ribbed suction cup

131 · 带肋平型吸盘 (无肋) Suction cup braced unbraced

133 · 带肋平型吸盘 (带肋) Suction cup braced with cushion type (unright)

137 · 带肋平型吸盘 (带肋) Suction cup braced with cushion type (unright)

主要优势 Main advantage

- 用于多班生产、节拍时间极短工况下的圆形扁平吸盘；
- 搬运涂油金属板材（汽车制造）、硬纸板和木板；
- 搬运粗糙硬纸板等表面极为粗糙的工件。
- Round flat suction cup for multi-shift production and extremely short cycle time;
- Handling oiled metal sheets (car made), cardboard and wood boards;
- Handles extremely rough surfaces such as rough cardboard.



VF series

Flat ribbed suction cup-Suction cup bracket unbuffered

平型带肋吸盘-吸盘托架无缓冲型



型号表示方式 Model representation

VPA 20 VF N - 6J

① 吸盘托架类型
Suction cup bracket type

VPA
固定型吸盘真空接口
Fixed too vacuum port

② 吸盘代号
Suction cup code

代码 Code	直径 Diameter	代码 Code	直径 Diameter
10	Ø10mm	50	Ø50mm
15	Ø15mm	75	Ø75mm
20	Ø20mm	110	Ø110mm
25	Ø25mm	150	Ø150mm
30	Ø30mm	200	Ø200mm
40	Ø40mm	250	Ø250mm

③ 吸盘类型
Suction cup type

VF 平型带肋 (前半)
Flat ribbed (1st)

④ 材质
Material

代码 Code	材料/颜色 Material/Color
N	丁腈橡胶/黑 Nitrile rubber / black
S	硅胶/红 Silicone / red
SE	防静电硅胶/黑 Anti-static silicone / black
LH	黑色/黑 No mark / black
XN	高强度耐热橡胶/黑 High strength heat resistant rubber / black

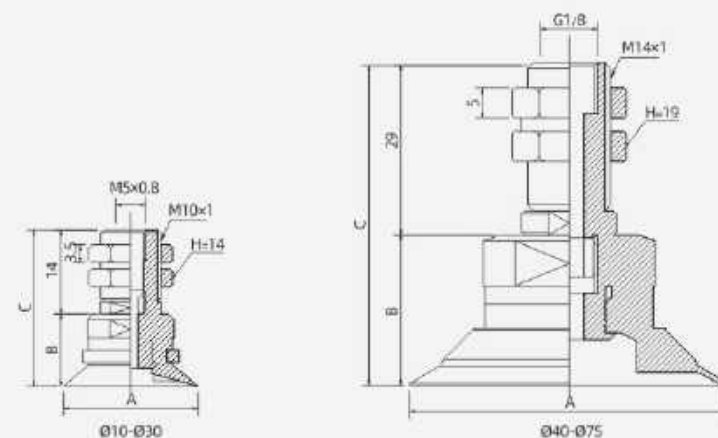
* N/S为普通材质, 常规供货, 其他材质为特殊材料, 起订量: 1000pcs.
* N/S is standard material, standard stock, other material is special material, starting order quantity 1000.

⑤ 接管方式
Takeover method

代码 Code	接口类型 Interface Type
6J	Ø4快速接头 Ø4 quick connector
6K	Ø6快速接头 Ø6 quick connector
B5	M5内螺纹 M5 internal thread
B01	G1/8内螺纹 G1/8 internal thread

尺寸图表 Dimensional chart

VPA

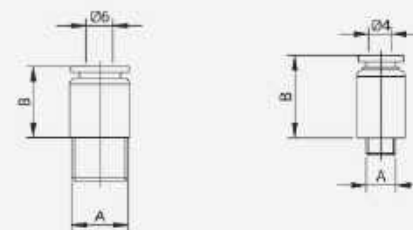


订购代号 Order code					BET Parameter			
① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code A	③ 吸盘类型 Suction cup type	④ 材质 Material	⑤ 接管方式 Takeover method	A	B	C	型号 Model
VPA	10	VF	N	6J	10.8	8	22	VPA 10 VF ④⑤
	15				16	15	29	VPA 15 VF ④⑤
	20				22	12	26	VPA 20 VF ④⑤
	25				27	13	27	VPA 25 VF ④⑤
	30				31.5	14	28	VPA 30 VF ④⑤
	40				42	21	50	VPA 40 VF ④⑤
	50				53	24	53	VPA 50 VF ④⑤
	75				75	27	56	VPA 75 VF ④⑤
	110				-	-	-	-
	150				-	-	-	-
	200				-	-	-	-
	250				-	-	-	-

* 单独吸盘托架订购: 将材质部分替换为 (), 如: VPA30VF(6)
* Individual suction cup bracket order: replace the material part with (), such as: VPA30VF(6)

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-M5C	Ø4	M5	14.5

VF series

Flat ribbed suction cup-Suction cup bracket with cushion type (upright)

平型带肋吸盘-吸盘托架附缓冲型（直立）



型号表示方式 Model representation

VPT 20 - 6 VF N J 6J

① 吸盘托架类型
Suction cup bracket type

VPT
缓冲型顶部真空端口
Buffered top vacuum port

② 吸盘代号
Suction cup code

代码 Code	直径 Diameter	代码 Code	直径 Diameter
10	Ø10mm	50	Ø50mm
15	Ø15mm	75	Ø75mm
20	Ø20mm	110	Ø110mm
25	Ø25mm	150	Ø150mm
30	Ø30mm	200	Ø200mm
40	Ø40mm	250	Ø250mm

③ 缓冲行程
Buffer stroke

代码 Code	行程 Stroke
6	6mm
10	10mm
15	15mm
20	20mm
25	25mm
30	30mm
50	50mm

④ 吸盘类型
Suction cup type

VF 平型带肋 (扁平)
Flat ribbed (flat)

⑤ 材质
Material

代码 Code	材料/颜色 Material/color
N	丁腈橡胶/黑 Nitrile rubber / black
S	硅胶/红 Silicone/red
SE	防静电硅胶/黑 Anti-static silicone / black
LH	无油/黑 No trace / black
XN	高硬度耐磨橡胶/黑 High strength wear-resistant rubber / black

⑥ 回转方式
Swing method

J	可回转型 Rotary type
K	不可回转型 Non-rotary

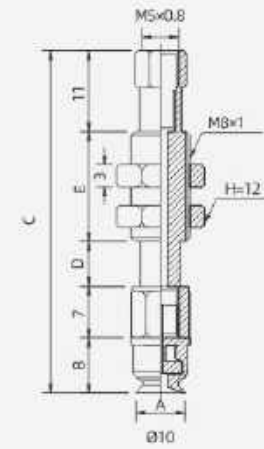
⑦ 接管方式
Takeover method

代码 Code	接口类型 Interface type
04	快接接头 04 quick connector
6J	Ø6快接接头 Ø6 quick connector
BS	M5内螺纹 M5 internal thread
001	G1/8内螺纹 G1/8 internal thread

* M5为特殊订货，数量有限，请及时订货。
* M5 is a special order, limited stock, please order in time.
* Ø6为特殊订货，数量有限，请及时订货。
* Ø6 is a special order, limited stock, please order in time.

尺寸图表 Dimensional chart

VPT



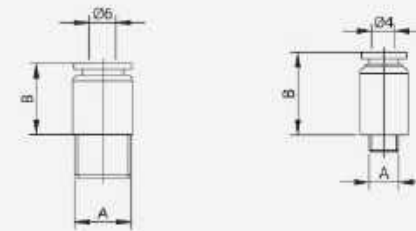
订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材质 Material	回转方式 Swing method	接管方式 Takeover method						
VPT	10	6	VF	N S SE LH XN	J K	6J 6B BS	10.6	8	47	6	15	VPT 10-6 VF ①⑥⑦
		79							10	43	VPT 10-10 VF ①⑥⑦	
		84							15	43	VPT 10-15 VF ①⑥⑦	
		94							25	43	VPT 10-25 VF ①⑥⑦	

* 单独吸盘托架订购：将材质部分更换为 ()，如：VPT1-3VF[6B]

* Individual suction cup bracket order: replace the material part with (), such as: VPT1-3VF[6B]

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

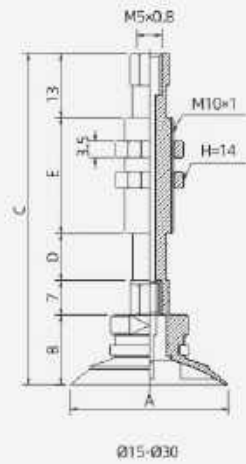
VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01	Ø6	G1/8	12
POC4-MSC	Ø4	M5	14.5

尺寸图表 Dimensional chart

VPT

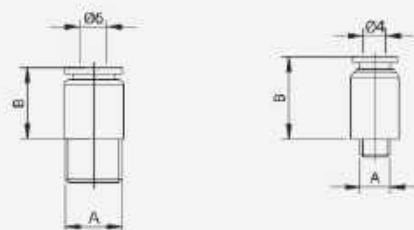


订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材质 Material	回转方式 Swing method	接管方式 Takeover method						
VPT	15	10	VF	N S SE UH XN	J K	G 68 85	16	15	68	10	23	VPT 15-10 VF (S)(K)
		106							20	51	VPT 15-20 VF (S)(K)	
		116							30	51	VPT 15-30 VF (S)(K)	
		162							50	77	VPT 15-50 VF (S)(K)	
		65							10	23	VPT 20-10 VF (S)(K)	
		103							20	51	VPT 20-20 VF (S)(K)	
	20	113	30	51	VPT 20-30 VF (S)(K)							
		159	50	77	VPT 20-50 VF (S)(K)							
		66	10	23	VPT 25-10 VF (S)(K)							
		104	20	51	VPT 25-20 VF (S)(K)							
		114	30	51	VPT 25-30 VF (S)(K)							
		160	50	77	VPT 25-50 VF (S)(K)							
	25	67	10	23	VPT 30-10 VF (S)(K)							
		105	20	51	VPT 30-20 VF (S)(K)							
		115	30	51	VPT 30-30 VF (S)(K)							
		161	50	77	VPT 30-50 VF (S)(K)							

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPT15-20VF(J)68
* Individual suction cup bracket order: replace the material part with (), such as: VPT15-20VF(J)68

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

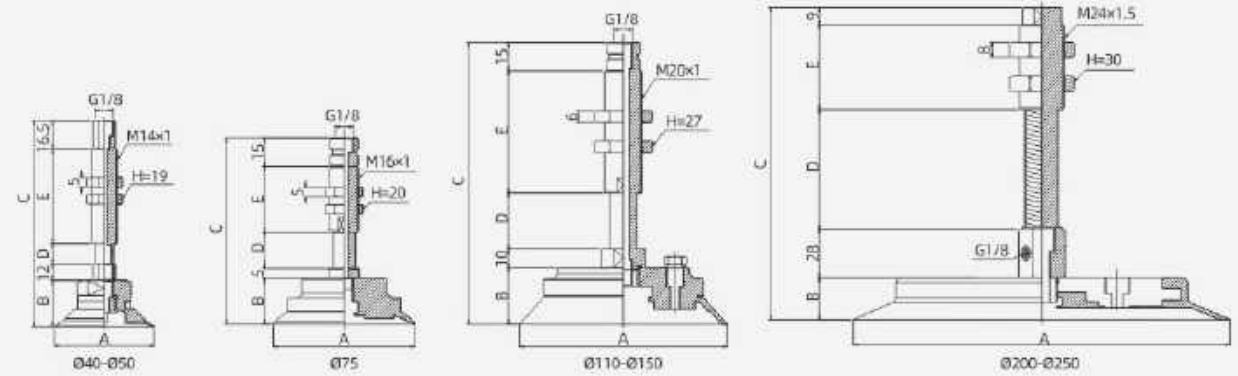
VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-MSC	Ø4	M5	14.5

尺寸图表 Dimensional chart

VPT

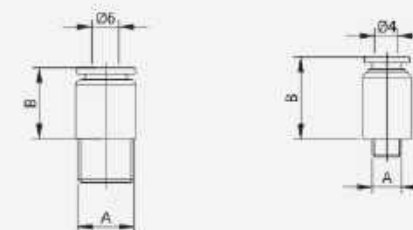


订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材质 Material	回转方式 Swing method	接管方式 Takeover method						
VPT	40	10	VF	N S SE UH XN	J K	G 68 801	42	18	107.5	11	50	VPT 40-10 VF (S)(K)
		117.5							21	50	VPT 40-20 VF (S)(K)	
		127.5							31	50	VPT 40-30 VF (S)(K)	
		172.5							51	75	VPT 40-50 VF (S)(K)	
		111.4							11	50	VPT 50-10 VF (S)(K)	
		121.4							21	50	VPT 50-20 VF (S)(K)	
	50	131.4	31	50	VPT 50-30 VF (S)(K)							
		176.4	51	75	VPT 50-50 VF (S)(K)							
		92	10	35	VPT 75-10 VF (S)(K)							
		102	20	35	VPT 75-20 VF (S)(K)							
		125	30	48	VPT 75-30 VF (S)(K)							
		163	50	66	VPT 75-50 VF (S)(K)							
	75	112	28.5	151.5	30	68	VPT 110-30 VF (S)(K)					
		152	38	181	20	68	VPT 150-50 VF (S)(K)					
		199.6	22.9	167.9	63	45	VPT 200-50 VF (S)(K)					
		249.6	22.9	167.9	63	45	VPT 250-50 VF (S)(K)					

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPT50-30VF(J)801
* Individual suction cup bracket order: replace the material part with (), such as: VPT50-30VF(J)801

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-MSC	Ø4	M5	14.5

VF series

Flat ribbed suction cup-Attached type

平型带肋吸盘-附接头型



型号表示方式 Model representation

VF 15 S - 18M

① 吸盘类型
Suction cup type

VF 平型带肋 (高平)
Flat ribbed (flat)

② 吸盘代号
Suction cup code

代码 Code	直径 Diameter	代码 Code	直径 Diameter
10	Ø10mm	50	Ø50mm
15	Ø15mm	75	Ø75mm
20	Ø20mm	110	Ø110mm
25	Ø25mm	150	Ø150mm
30	Ø30mm	200	Ø200mm
40	Ø40mm	250	Ø250mm

③ 材质
Material

代码 Code	材料/颜色 Material/color
N	丁腈橡胶 / 黑 Nitrile rubber / black
S	硅橡胶 / 红 Silicone / red
SE	防静电硅胶 / 黑 Anti-static silicone / black
LH	光面 / 黑 No base / black
XN	高强度防静电硅胶 / 黑 High-strength anti-static silicone

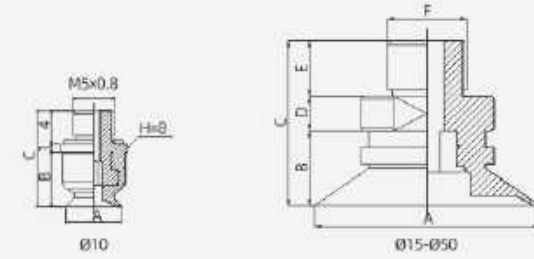
* N/S为标配材质，单独订货，其他材质另议材料，起订量：100pcs。
* N/S is standard material, standing stock, other material is special material, standing order quantity 100pcs.

④ 选配接头
Optional connector

代码 Code	接口类型 Interface type
无	接头无附件 No additional attachment
M5	M5X0.8 外螺纹 M5X0.8 external thread
18M	G1/8" 外螺纹 G1/8" external thread
18F	G1/8" 内螺纹 G1/8" internal thread
38F	G3/8" 内螺纹 G3/8" internal thread
12F	G1/2" 内螺纹 G1/2" internal thread

尺寸图表(外螺纹) Dimensional chart (external thread)

VF

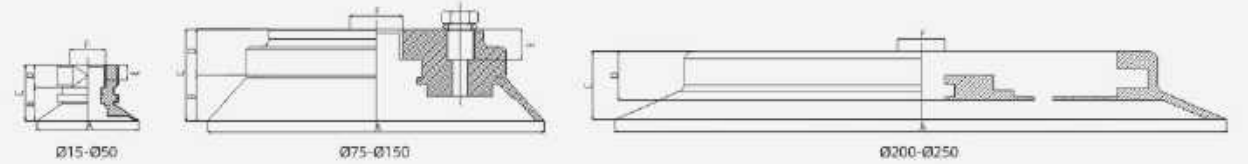


订购代号 Order code				参数 Parameter							
①	②	③	④	A	B	C	D	E	F	型号 Model	
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code a	材质 Material	选配接头 Optional connector								
VF	10	N S SE LH XN	M5	10.8	7	12.5	-	-	-	-	VF 10 ③-M5
	15			16	11	19.7	-	4.5	M5	VF 15 ③-M5	
	20			16M	16.5	8	18.5	4	6.5	G1/8	VF 20 ③-M5
					17.5				6.5	G1/8	VF 20 ③-18M
	25			18M	18.5	9	19.5	4.5	M5	VF 25 ③-M5	
					18.5				6.5	G1/8	VF 25 ③-18M
	30			18M	20.5	10	20.5	4.5	M5	VF 30 ③-M5	
					22.5				6.5	G1/8	VF 30 ③-18M
	40			18M	24.5	12	24.5	6.5	M5	VF 40 ③-M5	
					28.9				6.5	G1/8	VF 40 ③-18M
	50			18M	28.9	15.9	28.9	7	G1/8	VF 50 ③-18M	

* 单独吸盘托架订购：将材质部分更改为 ()，如：VF30()-18M
* Separate connector order: replace the material part with (), such as: VF30()-18M

尺寸图表(内螺纹) Dimensional chart (internal thread)

VF



订购代号 Order code				参数 Parameter							
①	②	③	④	A	B	C	D	E	F	型号 Model	
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code a	材质 Material	选配接头 Optional connector								
VF	20	N S SE LH XN	18F	22	8	17	-	-	-	-	VF 20 ③-18F
	25			27	9	18	-	8	G1/8	VF 25 ③-18F	
	30			18F	19	9	13	8	G1/8-G3/8-G1/2	VF 30 ③-18F	
					21					VF 40 ③-18F	
	50			18F	23.9	15.9	23.9	8	G3/8-G1/2	VF 50 ③-18F	
					27					VF 75 ③-④	
	110			18F	14.5	14	31.5	14.5	9.5	G3/8-G1/2	VF 110 ③-④
					17						VF 150 ③-④
	200			18F	22.9	21	38	17	12	G1/2	VF 200 ③-38F
					249.6						VF 200 ④-38F

* 单独吸盘托架订购：将材质部分更改为 ()，如：VF30()-18F
* Separate connector order: replace the material part with (), such as: VF30()-18F

VB series

1.5折波纹型 1.5 fold corrugated

主要优势 Main advantage

- 1.5折圆形波纹吸盘，用于高动态化搬运最高250 °C的高温金属板材；
 - 搬运预成型金属板材零件，波纹外形可保证最佳适应能力；
 - 零件成型后卸料；
 - 搬运薄铝，不产生变形及拉深；
 - 用于汽车行业冲压线送料系统等应用领域。
- 1.5 fold round corrugated suction cup for high dynamic handling of high temperature metal sheets up to 250 °C;
 - Handling pre-formed sheet metal parts with a corrugated shape for optimum adaptability;
 - Unloading after forming the part;
 - Carrying thin aluminum without deformation and deep drawing;
 - Used in automotive industry, such as press line feeding systems.



VB series

1.5 fold corrugated-Suction cup bracket unbuffered

1.5折波纹型-吸盘托架无缓冲型



型号表示方式 Model representation

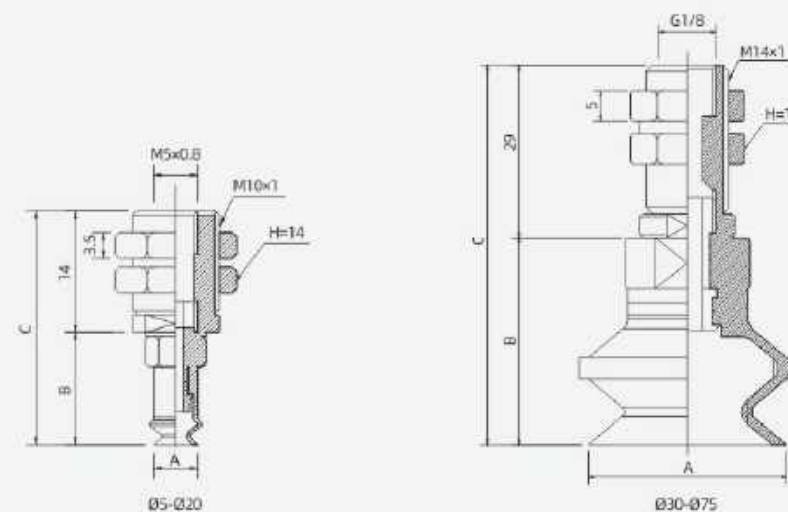
VPA 20 VB N 6J

- ① 吸盘托架类型 Suction cup bracket type: VPA 固定型顶部真空接口 Fixed top vacuum port
- ② 吸盘代号 Suction cup code: 直径 Diameter: 5 (Ø5mm), 6 (Ø6mm), 8 (Ø8mm), 10 (Ø10mm), 12 (Ø12mm), 15 (Ø15mm); 筒径 Dimension: 20, 30, 40, 50, 75, 110; 吸盘 Ø20mm, Ø30mm, Ø40mm, Ø50mm, Ø75mm, Ø110mm
- ③ 吸盘类型 Suction cup type: VB 1.5折波纹型(集液) 1.5-fold corrugated (collection)
- ④ 材质 Material: N 丁腈橡胶/黑 nitrile rubber / black; S 硅胶/红 silicone / red; SE 防静电硅胶/黑 anti-static silicone / black; LH 无铅/黑 Pb free / black; XN 高强度防静电硅胶/黑 high strength anti-static silicone / black
- ⑤ 真空接口 Vacuum interface: B5 MSVC.8内螺纹 MSVC.8 internal thread; B01 G1/8内螺纹 G1/8 internal thread; 6J Ø6快速接头 Ø6 quick connector; 6B Ø6钩型接头 Ø6 hook part

* N/S为材料代码，单独订购，数量较大时特殊材料，起订量：100PCS。
* N/S is material code, standing stock, other material is special material, starting order quantity: 100PCS.

尺寸图表 Dimensional chart

VPA



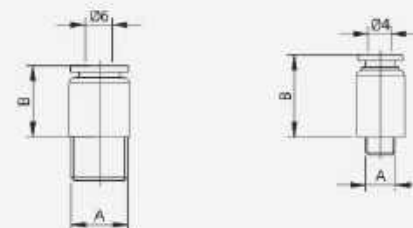
订购代号 Order code					参数 Parameter			
① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code	③ 吸盘类型 Suction cup type	④ 材质 Material	⑤ 真空接口 Vacuum interface	A	B	C	型号 Model
VPA	5	VB	N S SE LH XN	6J 6B	5.5	12.5	26.5	VPA 5 VB ④⑤
	6				7.2	16.5	30.5	VPA 6 VB ④⑤
	8				9	16.5	30.5	VPA 8 VB ④⑤
	10				11	20.5	34.5	VPA 10 VB ④⑤
	12				12	20.5	34.5	VPA 12 VB ④⑤
	15				16	23.5	37.5	VPA 15 VB ④⑤
	20				21.5	23.5	37.5	VPA 20 VB ④⑤
	30			33.8	34.5	63.5	VPA 30 VB ④⑤	
	40			42	38.5	67.5	VPA 40 VB ④⑤	
	50			53	40.5	69.5	VPA 50 VB ④⑤	
	75			77.5	49	78	VPA 75 VB ④⑤	
	110			-	-	-	-	

* 单独接头订购：将材质部分替换为 ()，如：VPA30VB()-6J

* Separate connector order: replace the material part with (), such as: VPA30VB()-6J

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-MSVC	Ø6	M5	14.5
POC6-G1		G1/8	12
POC4-MSVC	Ø4	M5	14.5

VB series

1.5 fold corrugated-suction cup bracket with cushion type (upright)

1.5折波纹型-吸盘托架附缓冲型(直立)



型号表示方式 Model representation

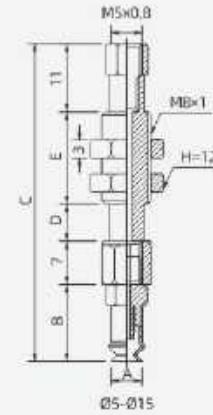
VPT 20 - 6 VB N J 6J

① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code	③ 缓冲行程 Buffer stroke	④ 材质 Material	⑤ 回转方式 Swing method	⑥ 真空接口 Vacuum interface
VPT 缓冲型顶部真空接口 Buffered top vacuum port	代号 Code 直径 Diameter	行程 Code 行程 Stroke	PCN Code 材料/颜色 Material/color	J 可旋转型 Rotary type K 不可旋转型 Non-rotary type	代号 Code 接口类型 Interface type
	5 Ø5mm 6 Ø6mm 8 Ø8mm 10 Ø10mm 12 Ø12mm 15 Ø15mm 20 Ø20mm 30 Ø30mm 40 Ø40mm 50 Ø50mm 75 Ø75mm 110 Ø110mm	10 10mm 20 20mm 30 30mm 50 50mm	N 丁腈橡胶/黑 NBR rubber / black S 硅胶/红 Silicone / red SE 防静电硅胶/黑 Anti-static silicone / black LH 无铅/黑 Lead free / black XN 高导热树脂橡胶/黑 High-thermal-conductivity rubber / black	* VPT10-25 系列标准型 10/20/30 mm 行程 * VPT10-25 系列标准型 10/20/30 mm 行程 * VPT10-25 系列标准型 10/20/30 mm 行程	6J Ø6快速接头 6J Quick connector 6B Ø6螺母接头 6B Hex nut joint B5 M5x0.8内螺纹 M5x0.8 internal thread B01 1x8内螺纹 1x8 internal thread

⑥ 吸盘类型 Suction cup type
VB 1.5折波纹型(标准)
1.5 fold corrugated (standard)

尺寸图表 Dimensional chart

VPT

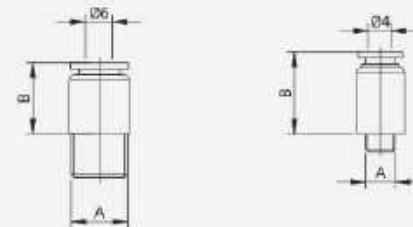


订购代号 Order code							参数 Parameter					
① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code	③ 缓冲行程 Buffer stroke	④ 吸盘类型 Suction cup type	⑤ 材质 Material	⑥ 回转方式 Swing method	⑦ 接管方式 Takeover method	A	B	C	D	E	型号 Model
VPT	5	6	VB	N S SE LH XN	J K	6J 6B B5	5.5	12.5	51.5	6	15	VPT 5-6 VB (J)(K)
		10							83.5	10	43	VPT 5-10 VB (J)(K)
		15							88.5	15	43	VPT 5-15 VB (J)(K)
		25							98.5	25	43	VPT 5-25 VB (J)(K)
		50							110	50	43	VPT 5-50 VB (J)(K)
	6	6					55.5	6	15	VPT 6-6 VB (J)(K)		
		10					87.5	10	43	VPT 6-10 VB (J)(K)		
		15					92.5	15	43	VPT 6-15 VB (J)(K)		
		25					102.5	25	43	VPT 6-25 VB (J)(K)		
		50					110	50	43	VPT 6-50 VB (J)(K)		
	8	6					55.5	6	15	VPT 8-6 VB (J)(K)		
		10					87.5	10	43	VPT 8-10 VB (J)(K)		
		15					92.5	15	43	VPT 8-15 VB (J)(K)		
		25					102.5	25	43	VPT 8-25 VB (J)(K)		
		50					110	50	43	VPT 8-50 VB (J)(K)		
	10	6					59.5	6	15	VPT 10-6 VB (J)(K)		
		10					91.5	10	43	VPT 10-10 VB (J)(K)		
		15					96.5	15	43	VPT 10-15 VB (J)(K)		
		25					106.5	25	43	VPT 10-25 VB (J)(K)		
		50					110	50	43	VPT 10-50 VB (J)(K)		
	12	6					59.5	6	15	VPT 12-6 VB (J)(K)		
		10					91.5	10	43	VPT 12-10 VB (J)(K)		
		15					96.5	15	43	VPT 12-15 VB (J)(K)		
		25					107	25	43	VPT 12-25 VB (J)(K)		
50		110	50	43	VPT 12-50 VB (J)(K)							
15	6	62.5	6	15	VPT 15-6 VB (J)(K)							
	10	94.5	10	43	VPT 15-10 VB (J)(K)							
	15	99.5	15	43	VPT 15-15 VB (J)(K)							
	25	110	25	43	VPT 15-25 VB (J)(K)							
	50	110	50	43	VPT 15-50 VB (J)(K)							

* 单独吸盘托架订购: 将材质部分替换为 (), 如: VPT20-10VB (J)6B
* Individual suction cup bracket order: replace the material part with (), such as: VPT20-10VB (J)6B

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

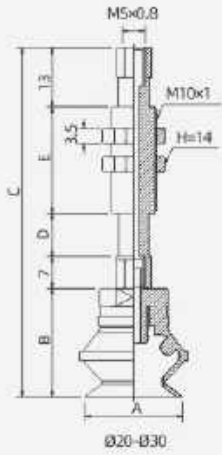
VPT



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-MSC	Ø4	M5	14.5

尺寸图表 Dimensional chart

VPT

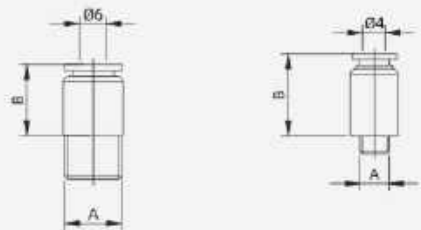


订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材质 Material	回装方式 Swing method	接管方式 Takeover method						
VPT	20	10	VB	N S SE LH XN	J K	G 6B B5	21.5	23.5	76.5	10	23	VPT 20-10 VB (S)(X)(Z)
		20							114.5	20	51	VPT 20-20 VB (S)(X)(Z)
		30							124.5	30	51	VPT 20-30 VB (S)(X)(Z)
		50							170.5	50	77	VPT 20-50 VB (S)(X)(Z)
		10							82.5	10	23	VPT 30-10 VB (S)(X)(Z)
		20							120.5	20	51	VPT 30-20 VB (S)(X)(Z)
	30	30	130.5	30	51	VPT 30-30 VB (S)(X)(Z)						
		50	176.5	50	77	VPT 30-50 VB (S)(X)(Z)						

* 单独吸盘托架订购：将材质部分更换为 ()，如：VPT40-10VB (J)6B
 * Individual suction cup bracket order: replace the material part with (), such as: VPT40-10VB (J)6B

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

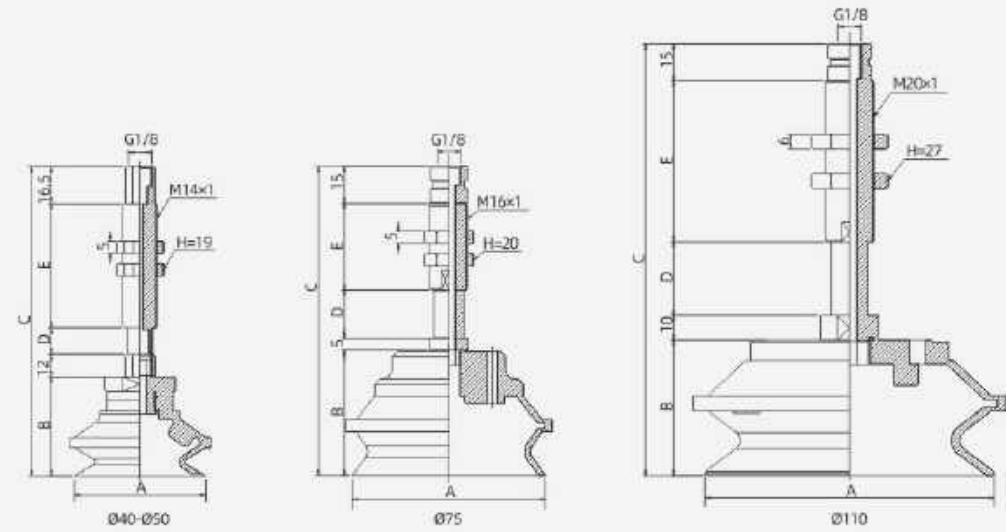
VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
		G1/8	12
POC4-M5C	Ø4	M5	14.5

尺寸图表 Dimensional chart

VPT

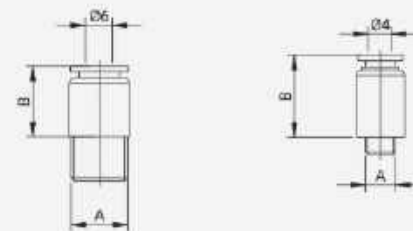


订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材质 Material	回装方式 Swing method	接管方式 Takeover method						
VPT	40	10	VB	N S SE LH XN	J K	G 6B B01	42	35.5	125	11	50	VPT 40-10 VB (S)(X)(Z)
		20							135	21	50	VPT 40-20 VB (S)(X)(Z)
		30							145	31	50	VPT 40-30 VB (S)(X)(Z)
		50							190	51	75	VPT 40-50 VB (S)(X)(Z)
		10							121.5	11	50	VPT 50-10 VB (S)(X)(Z)
		20							140	21	50	VPT 50-20 VB (S)(X)(Z)
	50	30	150	31	50	VPT 50-30 VB (S)(X)(Z)						
		50	195	51	75	VPT 50-50 VB (S)(X)(Z)						
		10	114	10	35	VPT 75-10 VB (S)(X)(Z)						
		20	124	20	35	VPT 75-20 VB (S)(X)(Z)						
		30	147	30	48	VPT 75-30 VB (S)(X)(Z)						
		50	185	50	66	VPT 75-50 VB (S)(X)(Z)						
	75	10	114	10	35	VPT 75-10 VB (S)(X)(Z)						
		20	124	20	35	VPT 75-20 VB (S)(X)(Z)						
		30	147	30	48	VPT 75-30 VB (S)(X)(Z)						
		50	185	50	66	VPT 75-50 VB (S)(X)(Z)						
		10	114	10	35	VPT 110-10 VB (S)(X)(Z)						
		30	147	30	48	VPT 110-30 VB (S)(X)(Z)						
	110	50	185.5	50	66	VPT 110-50 VB (S)(X)(Z)						

* 单独吸盘托架订购：将材质部分更换为 ()，如：VPT40-10VB (J)6B
 * Individual suction cup bracket order: replace the material part with (), such as: VPT40-10VB (J)6B

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
		G1/8	12
POC4-M5C	Ø4	M5	14.5

VB series

1.5 fold corrugated-Attached type

1.5折波纹型-附接头型



型号表示方式 Model representation

VB 15 S - 18M

① 吸盘类型 Suction cup type: VB (1.5折波纹型/附接头) 1.5 fold corrugated/attached

② 吸盘代号 Suction cup code: 15 (直径 Diameter: Ø15mm)

③ 材质 Material: S (材料/颜色: 丁腈橡胶/黑 Nitrile rubber / black)

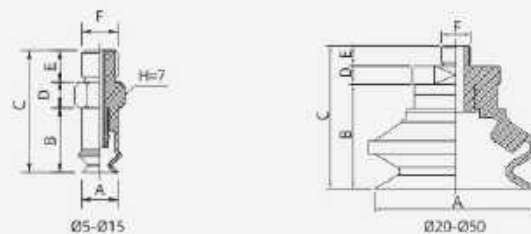
④ 选配接头 Optional connector: 18M (接口类型 Interface type: 接头无附接头 joint without attachment)

代码 Code	材料/颜色 Material/Color
N	丁腈橡胶/黑 Nitrile rubber / black
S	硅胶/红 Silicone/rub
SE	耐静电压硅胶/黑 Anti-static silicone / black
LH	无卤/黑 Hal-free / black
XN	高温耐静电压硅胶/黑 High-temperature anti-static silicone

* N: 丁腈橡胶, 李洛型, 其他特殊材料, 起订量: 1000个。
 * N: S: standard material, standard color, other material is special material, starting order quantity: 1000.

尺寸图表(外螺纹) Dimensional chart (external thread)

VB

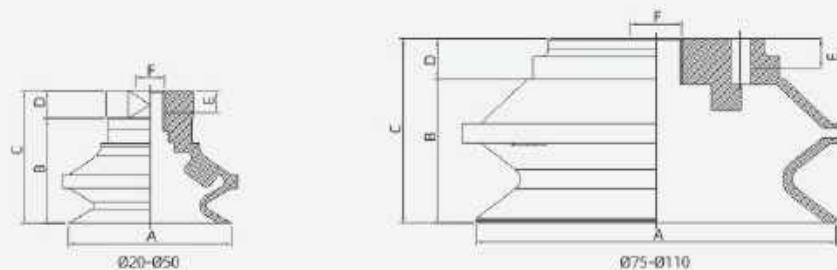


订购代号 Order code				参数 Parameter						
①	②	③	④	A	B	C	D	E	F	型号 Model
吸盘类型 Suction cup type	吸盘代号 Suction cup code a	材质 Material	选配接头 Optional connector							
VB	5	N S SE LH XN	M5	5.5	9	16	3.5	3.5	M5x0.8	VB 5 ①-M5
	6			7.2	13	20.5	3	4.5	M5x0.8	VB 6 ①-M5
	8			9	12.8	19.8	3.5	3.5	M5x0.8	VB 8 ①-M5
	10			11	16	24.5	4	4.5	M5x0.8	VB 10 ①-M5
	12			12	16.5	25	4	4.5	M5x0.8-G1/8	VB 12 ①-④
	15			16	19.5	28	4	4.5	M5x0.8-G1/8	VB 15 ①-④
	20		21.5	19.5	28	4	4.5	M5x0.8-G1/8	VB 20 ①-④	
	30		33.8	25.5	36	6	4.5	G1/8	VB 30 ①-18M	
	40		42	29.5	40	6	4.5	G1/8	VB 40 ①-18M	
	50		53	33	45.5	6	6.5	G1/8	VB 50 ①-18M	

* 单独接头订购: 将材质部分更换为 (), 如: VB30()-18M
 * Separate connector order: replace the material part with (), such as: VB30()-18M

尺寸图表(内螺纹) Dimensional chart (internal thread)

VB



订购代号 Order code				参数 Parameter						
①	②	③	④	A	B	C	D	E	F	型号 Model
吸盘类型 Suction cup type	吸盘代号 Suction cup code a	材质 Material	选配接头 Optional connector							
VB	20	N S SE LH XN	18F	21.5	19.5	20.5	9	8	G1/8	VB 20 ①-18F
	30			33.8	25.5	34.5	9	8		VB 30 ①-18F
	40			42	29.5	38.5	9	8		VB 40 ①-18F
	50			53	33	41	8	8		VB 50 ①-18F
	75		77.5	31	49	18	12	G1/8-G3/8	VB 75 ①-③	
	110		117	49	63.5	14.5	12	G3/8	VB 110 ①-38F	

* 单独接头订购: 将材质部分更换为 (), 如: VB30()-18M
 * Separate connector order: replace the material part with (), such as: VB30()-18M

FCF series

平型带肋吸盘

Flat ribbed suction cup

主要优势 Main advantage

- 圆形扁平吸盘，用于动态化短节拍时间工况下搬运金属板材；
 - 搬运金属薄板及铝板，不产生变形；
 - 用于汽车行业冲压线送料系统；
 - 吸盘底部特殊沟槽可防止涂油金属板材滑落，确保冲压等工艺中精确定位。
- Round flat suction cup for dynamic handling of metal sheet in extremely short cycle time conditions;
 - Carrying metal sheets and aluminum sheets without deformation;
 - Used in the automotive industry press line feeding system;
 - The special groove at the bottom of the suction cup prevents the oiled metal sheet from slipping off, ensuring precise positioning in the stamping process.



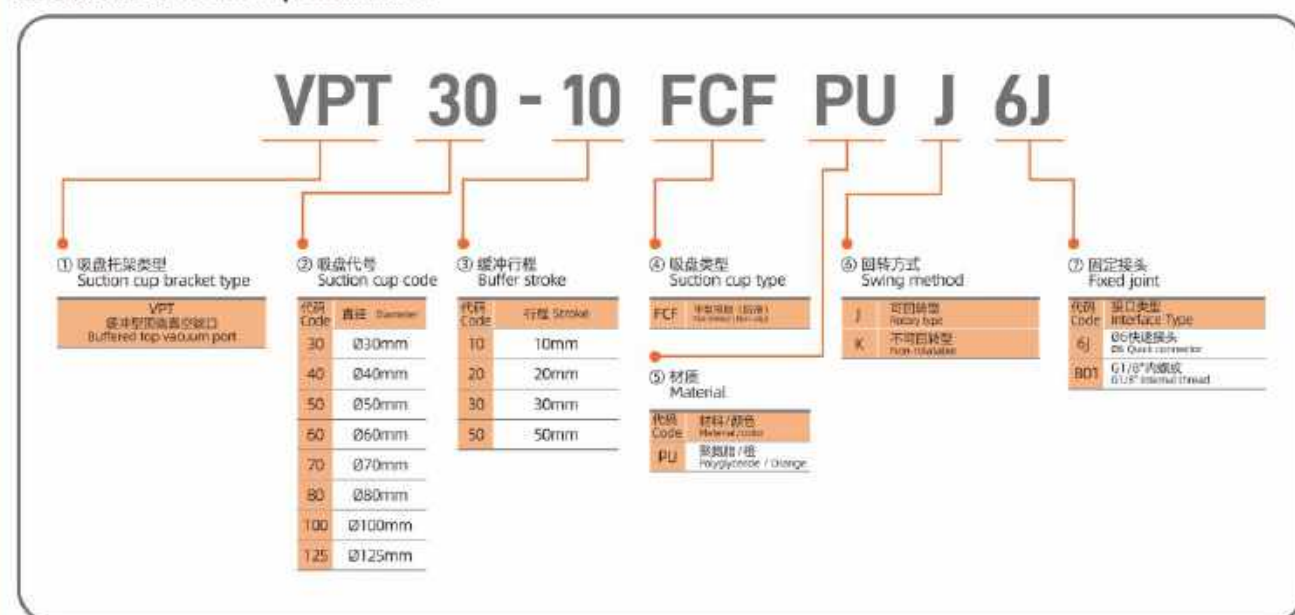
FCF series

Flat ribbed suction cup-Suction cup bracket with cushion type (upright)

平型带肋吸盘-吸盘托架附缓冲型(直立)

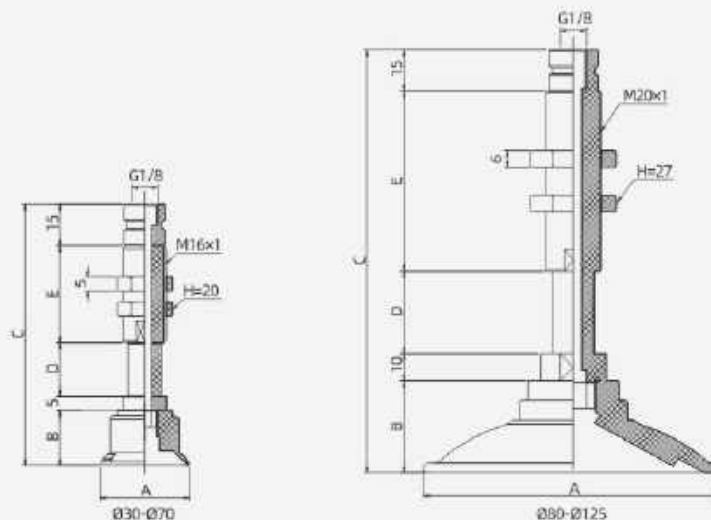


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPT

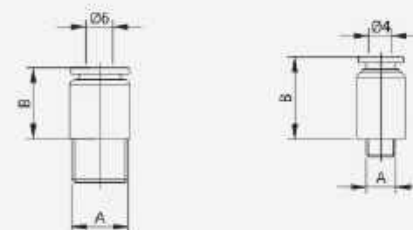


订购序号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
VPT	30	10	FCF	PU	J	6J	33	20	85	10	35	VPT 30-10 FCF @⑦
		20							20	35	VPT 30-20 FCF @⑦	
		30							30	46	VPT 30-30 FCF @⑦	
		50							50	66	VPT 30-50 FCF @⑦	
		10							87.5	10	35	VPT 40-10 FCF @⑦
		20							97.5	20	35	VPT 40-20 FCF @⑦
	40	30	120.5	30	46	VPT 40-30 FCF @⑦						
		50	158.5	50	66	VPT 40-50 FCF @⑦						
		10	94.5	10	35	VPT 50-10 FCF @⑦						
		20	104.5	20	35	VPT 50-20 FCF @⑦						
		30	125.5	30	46	VPT 50-30 FCF @⑦						
		50	165.5	50	66	VPT 50-50 FCF @⑦						
	50	10	96	10	35	VPT 60-10 FCF @⑦						
		20	106	20	35	VPT 60-20 FCF @⑦						
		30	129	30	46	VPT 60-30 FCF @⑦						
		50	167	50	66	VPT 60-50 FCF @⑦						
		10	98	10	35	VPT 70-10 FCF @⑦						
		20	108	20	35	VPT 70-20 FCF @⑦						
	60	30	129	30	46	VPT 70-30 FCF @⑦						
		50	169	50	66	VPT 70-50 FCF @⑦						
		10	86	33	153	30	65	VPT 80-30 FCF @⑦				
		20	108	33	153	30	65	VPT 100-30 FCF @⑦				
		30	131	39.5	159.5	30	65	VPT 125-30 FCF @⑦				

* 单独吸盘托架订购: 将材质部分更改为 (), 如: VPT50-10FCF(J)6B
 * Individual suction cup bracket order: replace the material part with (), such as: VPT50-10FCF(J)6B

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POCS-MSC	Ø6	M5	14.5
POCS-01		G1/8	12

FCF series

Flat ribbed suction cup-Fixed connector type

平型带肋吸盘-固定接头型



型号表示方式 Model representation

FCF 30 PU - 18F

① 吸盘类型
Suction cup type

FCF 平型带肋 (固定) PU-肋 (固定)

② 吸盘代号
Suction cup code

代号 Code	直径 Diameter
30	Ø30mm
40	Ø40mm
50	Ø50mm
60	Ø60mm
70	Ø70mm
80	Ø80mm
100	Ø100mm
125	Ø125mm

③ 材质
Material

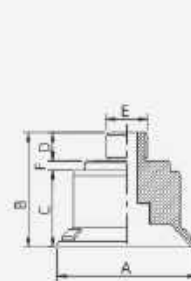
代码 Code 材料/颜色 Material/color
PU 聚氨酯/橙 Polyurethane / Orange

④ 选配接头
Optional connector

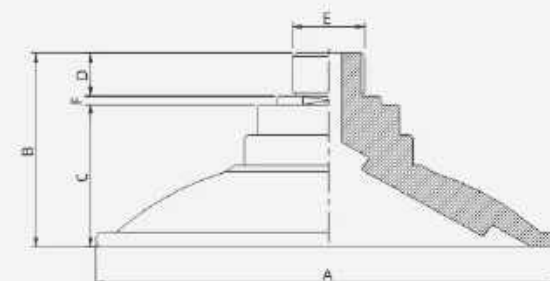
代码 Code	接口类型 Interface type
18M	G1/8"外螺纹 G1/8" External thread
38M	G3/8"外螺纹 G3/8" External thread
18F	G1/8"内螺纹 G1/8" Internal thread
38F	G3/8"内螺纹 G3/8" Internal thread

尺寸图表(外螺纹) Dimensional chart (external thread)

FCF



Ø30-Ø70

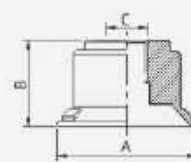


Ø80-Ø125

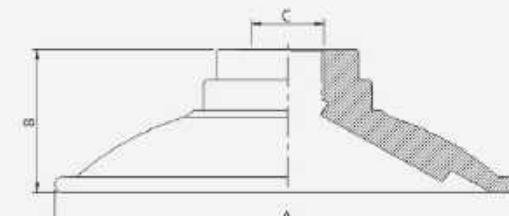
订购代号 Order code				参数 Parameter						型号 Model	
① 吸盘类型 Suction cup type	② 吸盘代号 Suction cup code a	③ 材质 Material	④ 选配接头 Optional connector	A	B	C	D	E	F		
FCF	30	PU	18M	33	28	20	6.5	G1/8	1.5	FCF30PU - 18M	
	40			42.5	30.5	22.5				FCF40PU - 18M	
	50			53.5	37.5	29.5				FCF50PU - 18M	
	60			63.5	40.5	31				FCF60PU - 18M	
	70			73.5	42.5	33				FCF70PU - 18M	
	80			86	44.5	33				FCF80PU - 38M	
		100	38M		108	44.5	33	8.5	G3/8	3	FCF100PU - 38M
		125			131	51	39.5				FCF125PU - 38M

尺寸图表(内螺纹) Dimensional chart (internal thread)

FCF



Ø30-Ø70



Ø80-Ø125

订购代号 Order code				参数 Parameter			型号 Model		
① 吸盘类型 Suction cup type	② 吸盘代号 Suction cup code a	③ 材质 Material	④ 选配接头 Optional connector	A	B	C			
FCF	30	PU	18F	33	20	G1/8	FCF30PU - 18F		
	40			42.5	22.5		FCF40PU - 18F		
	50			53.5	29.5		FCF50PU - 18F		
	60			63.5	31		FCF60PU - 18F		
	70			73.5	33		FCF70PU - 18F		
	80			86	33		FCF80PU - 38F		
			100	38F		108	33	G3/8	FCF100PU - 38F
			125			131	39.5		FCF125PU - 38F

BK series

平型带肋吸盘 Flat ribbed suction cup

157 · 带肋平型带肋吸盘 (带肋) Suction cup braced with cushion type (with rib)

159 · 带肋平型带肋吸盘 (带肋) Suction cup braced with cushion type (with rib)

161 · 带肋平型带肋吸盘 (带肋) Suction cup braced with cushion type (with rib)

主要优势 Main advantage

- 圆形，扁平吸盘，用于处理木质粘面，硅片和太阳能电池；
- 处理各种包装材料，例如 塑料薄膜，纸，泡罩包装；
- 由于扁平的长锥形密封唇和内部支撑，可以轻柔地处理塑料薄膜和纸张。
- Round, flat suction cup for handling wooden veneers, crepe and solar cells;
- Handling various packaging materials such as plastic film, paper, blister packaging;
- Thanks to the flat long tapered lip and internal support, plastic film and paper can be handled gently.



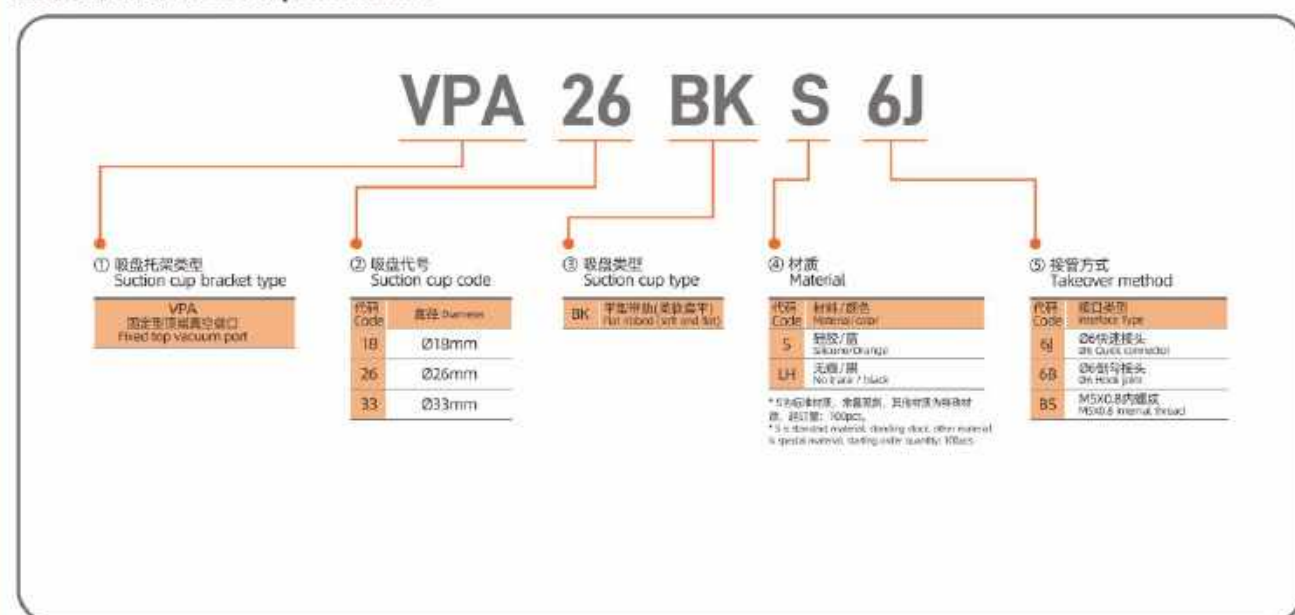
BK series

Flat ribbed suction cup-Suction cup bracket with cushion type

平型带肋吸盘-吸盘托架无缓冲型

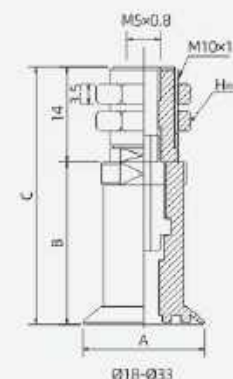


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA



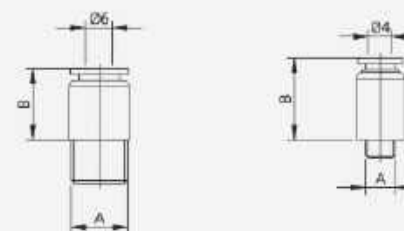
订购代号 Order code					参数 Parameter			
①	②	③	④	⑤	A	B	C	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	吸盘类型 Suction cup type	材质 Material	接管方式 Takeover method				
VPA	18	BK	S LH	6J	18	27.5	41.5	VPA 18 BK ③⑤
	26			6B	VPA 26 BK ③⑤			
	33			BS	VPA 33 BK ③⑤			

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPA18BK(J)

* Individual sucker bracket order: Replace material part with (), e.g. VPA18BK(J)

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
POC6-Ø1		G1/8	12
POC4-M5C	Ø4	M5	14.5

BK series

Flat ribbed suction cup-Suction cup bracket with cushion type (upright)

平型带肋吸盘-吸盘托架附缓冲型（直立）



型号表示方式 Model representation

VPT 26 - 10 BK S J 6J

- ① 吸盘托架类型 Suction cup bracket type
 - VPT 内置缓冲型真空吸盘口 Built-in buffer top vacuum port
- ② 吸盘代号 Suction cup code

代码 Code	直径 Diameter
18	Ø18mm
26	Ø26mm
33	Ø33mm
- ③ 缓冲行程 Buffer stroke

代码 Code	行程 Stroke
10	10mm
20	20mm
30	30mm
50	50mm
- ④ 材质 Material

代码 Code	材料/颜色 Material/Color
S	硅胶/Silicone
LH	光面/黑 Flat topz / Black

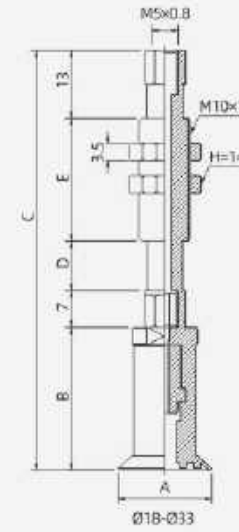
* S为硅橡胶, 其余为硅胶, 其他材料为特制, 需定制, 100pcs.
* S is standard material, other material is special material, starting order quantity: 100pcs.
- ⑤ 吸盘类型 Suction cup type
 - BK 平型带肋(平型带肋) Flat ribbed (flat and flat)
- ⑥ 回转方式 Swing method

代码 Code	可回转型 Rotary type
J	可回转型 Rotary type
K	不可回转型 Non-rotatable
- ⑦ 接管方式 Takeover method

代码 Code	接口类型 Interface type
6J	快接接头 Quick connector
6B	钩型接头 Hook joint
B5	M5X0.8内螺纹 M5X0.8 internal thread

尺寸图表 Dimensional chart

VPT

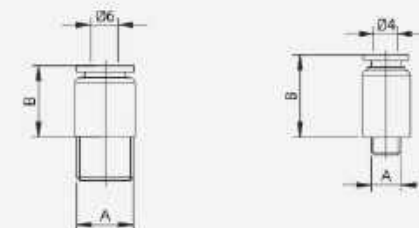


订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	缓冲行程 Buffer stroke	吸盘类型 Suction cup type	材质 Material	回转方式 Swing method	接管方式 Takeover method						
VPT	18	10	BK	S LH	J K	6J 6B B5	18	27.5	80.5	10	23	VPT 18-10 BK ⑤⑥⑦
		20					118.5		20	51	VPT 18-20 BK ⑤⑥⑦	
		30					128.5		30	51	VPT 18-30 BK ⑤⑥⑦	
		50					174.5		50	77	VPT 18-50 BK ⑤⑥⑦	
		10					26		80.5	10	23	VPT 26-10 BK ⑤⑥⑦
	26	20					118.5		20	51	VPT 26-20 BK ⑤⑥⑦	
		30					128.5		30	51	VPT 26-30 BK ⑤⑥⑦	
		50					174.5		50	77	VPT 26-50 BK ⑤⑥⑦	
		10					33		80.5	10	23	VPT 33-10 BK ⑤⑥⑦
		33					20		118.5	20	51	VPT 33-20 BK ⑤⑥⑦
	30						128.5		30	51	VPT 33-30 BK ⑤⑥⑦	
	50						174.5		50	77	VPT 33-50 BK ⑤⑥⑦	

* 单独吸盘托架订购: 将材质部分更改为 (), 如: VPT26-10BK(J)G
* Separate sucker carrier orders: replace material parts with (), such as: VPT26-10BK(J)G

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
POC6-Ø1		G1/8	12
POC4-M5C	Ø4	M5	14.5

BK series

Flat ribbed suction cup-Attached type

平型带肋吸盘-附接头型



型号表示方式 Model representation

BK 26 S - 18M

① 吸盘类型
Suction cup type

BK 平型带肋(带肋带平)
Flat ribbed (with ribs and flat)

② 吸盘代号
Suction cup code

代码 Code	直径 Diameter
18	Ø18mm
26	Ø26mm
33	Ø33mm

③ 材质
Material

代码 Code	材料/颜色 Material/Color
S	硅胶/蓝 Silicone/Blue
LH	无铅/滑 Lead-free / slick

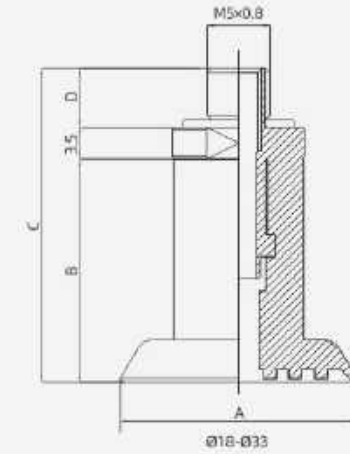
* S为特殊材料, 防静电, 其他材料均有库存, 起订量: 100pcs.
* S is special material, anti-static, other materials in stock, order quantity: 100pcs.

④ 适配接头
Optional connector

代码 Code	接口类型 Interface type
无	接头无附类型 Joint without attachment
M5	外螺纹/M5x0.8 External thread/M5x0.8
18M	外螺纹/G1/8" External thread/G1/8"

尺寸图表 Dimensional chart

BK



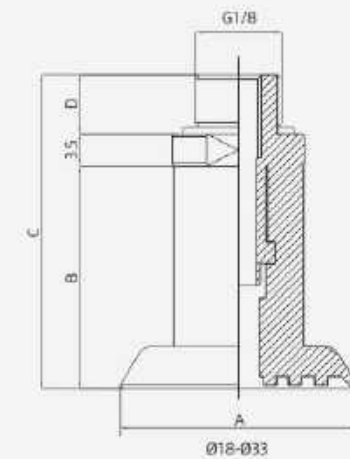
订购代号 Order code				参数 Parameter				
①	②	③	④	A	B	C	D	型号 Model
吸盘类型 Suction cup type	吸盘代号 Suction cup code a	材质 Material	适配接头 Optional connector					
BK	18	S LH	M5	18	24	32	4.5	BK 18 ③-M5
	26			BK 26 ③-M5				
	33			BK 33 ③-M5				

* 单独接头订购: 将材质部分替换为 (), 如: BK26()-M5

* Separate connector order: replace the material part with (), such as: BK26()-M5

尺寸图表 Dimensional chart

BK



订购代号 Order code				参数 Parameter				
①	②	③	④	A	B	C	D	型号 Model
吸盘类型 Suction cup type	吸盘代号 Suction cup code a	材质 Material	适配接头 Optional connector					
BK	18	S LH	18M	18	24	34.5	7	BK 18 ③-18M
	26			BK 26 ③-18M				
	33			BK 33 ③-18M				

* 单独接头订购: 将材质部分替换为 (), 如: BK26()-M5

* Separate connector order: replace the material part with (), such as: BK26()-M5

BGA series

1.5折波纹型 1.5 fold corrugated

主要优势 Main advantage

- 1.5折圆形波纹吸盘，适用于节拍极短的多班运行严苛工况；
 - 搬运粗糙硬纸板等表面极为粗糙的工作；
 - 带特殊沟槽吸盘：用于搬运涂油金属板材（抗侧向力能力更强）；
 - 无特殊沟槽吸盘：用于搬运纸箱、木材和其他类似材料。
- 1.5 fold round corrugated suction cup, suitable for severe operation with extremely short cycle times;
 - Handling extremely rough surfaces such as rough cardboard;
 - Special grooved suction cup: for handling oiled metal sheets (more resistant to lateral forces);
 - No special grooved suction cups: used to carry cardboard boxes, wood and other similar materials.



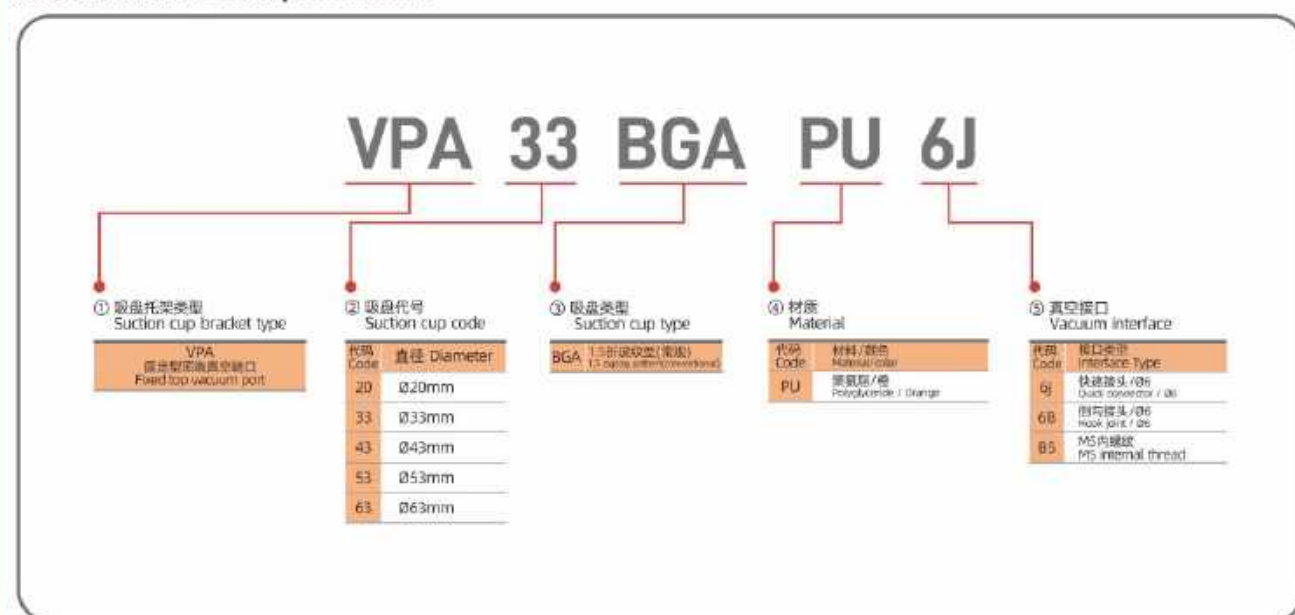
BGA series

1.5 fold corrugated-Suction cup bracket unbuffered

1.5折波纹型-吸盘托架无缓冲型

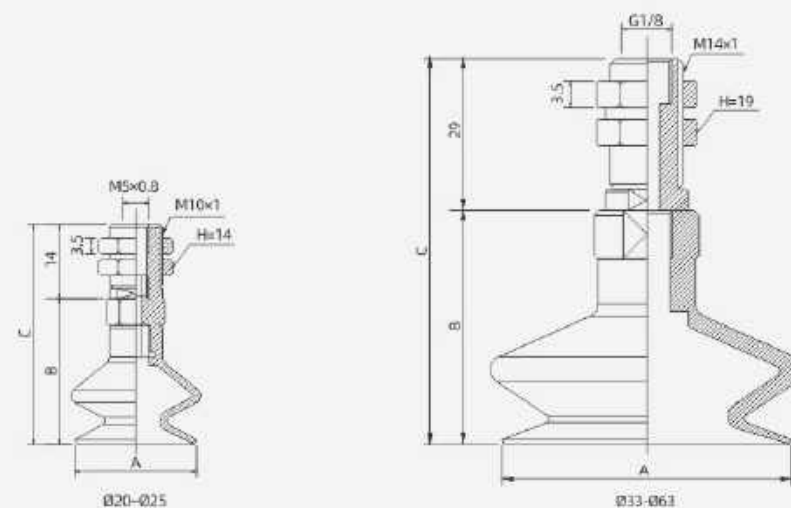


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA



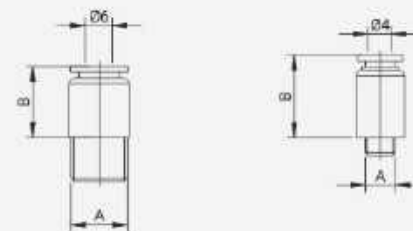
订货号 Order code					参数 Parameter			
① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code	③ 吸盘类型 Suction cup type	④ 材质 Material	⑤ 接管方式 Takeover method	A	B	C	型号 Model
VPA	20	BGA	PU	6J	18.5	19	33	VPA 20 BGAPU ⑤
	25			6B	23	26.5	40.5	VPA 25 BGAPU ⑤
	33			6J	33	41.5	70.5	VPA 33 BGAPU ⑤
	43			6B	44	42	71	VPA 43 BGAPU ⑤
	53			6S	54.5	49	78	VPA 53 BGAPU ⑤
	63			6S	65	49	78	VPA 63 BGAPU ⑤

* 单独吸盘托架订购: 将材质部分替换为 (), 如: VPA30BGA(6)

* Individual suction cup bracket order: replace the material part with (), such as: VPA30BGA(6)

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-MSC	Ø4	M5	14.5

BGA series

1.5 fold corrugated-suction cup bracket with cushion type (upright)

1.5折波纹型-吸盘托架附缓冲型(直立)



型号表示方式 Model representation

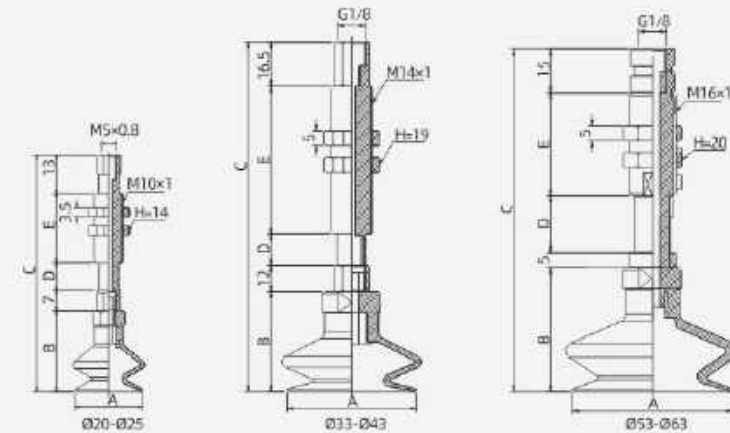
VPT 33 - 10 BGA PU J 6J

① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code	③ 缓冲行程 Buffer stroke	④ 吸盘类型 Suction cup type	⑤ 材料 Material	⑥ 回转方式 Swing method	⑦ 真空接口 Vacuum interface
VPT 固定顶部真空接口 Fixed top vacuum port	代码 Code 直径 Diameter	代码 Code 行程 Stroke	BGA 1.5折波纹型(常规) 1.5 fold corrugated	代码 Code 材料/颜色 Material/Color	J 可回转型 Rotary type	代码 Code 接口类型 Interface Type
	20 Ø20mm	10 10mm		PU 聚氨酯/橙 Polyurethane / Orange	K 不可回转型 Non-rotatable	6J Ø6快速接头 Ø6 Quick connector
	33 Ø33mm	20 20mm				6B Ø6带钩接头 Ø6 Hook joint
	43 Ø43mm	30 30mm				B5 内螺纹 M5x0.8 Internal thread
	53 Ø53mm	50 50mm				B01 内螺纹 G1/8 Internal thread
	63 Ø63mm					

* BGA 1.5折波纹型(常规) 1.5 fold corrugated (standard)
* BGA 1.5折波纹型(加厚) 1.5 fold corrugated (thickened)

尺寸图表 Dimensional chart

VPT



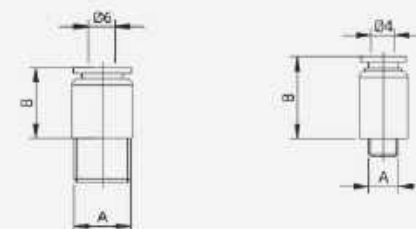
订购代号 Order code							参数 Parameters					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
VPT	20	10	BGA	PU	J	6J	18.5	19	72	10	23	VPT 20-10 BGAPU @⑦
		20							110	20	51	VPT 20-20 BGAPU @⑦
		30							120	30	51	VPT 20-30 BGAPU @⑦
		50							166	50	77	VPT 20-50 BGAPU @⑦
		10							79.5	10	23	VPT 25-10 BGAPU @⑦
		20							117.5	20	51	VPT 25-20 BGAPU @⑦
	30	127.5				30	51	VPT 25-30 BGAPU @⑦				
	50	173.5				50	77	VPT 25-50 BGAPU @⑦				
	10	124				11	50	VPT 33-10 BGAPU @⑦				
	20	134				21	50	VPT 33-20 BGAPU @⑦				
	30	144				31	50	VPT 33-30 BGAPU @⑦				
	50	189				51	75	VPT 33-50 BGAPU @⑦				
	10	124.5				11	50	VPT 43-10 BGAPU @⑦				
	20	134.5				21	50	VPT 43-20 BGAPU @⑦				
	30	144.5				31	50	VPT 43-30 BGAPU @⑦				
	50	189.5				51	75	VPT 43-50 BGAPU @⑦				
	10	114				10	35	VPT 53-10 BGAPU @⑦				
	20	124				20	35	VPT 53-20 BGAPU @⑦				
	30	147				30	40	VPT 53-30 BGAPU @⑦				
	50	185				50	66	VPT 53-50 BGAPU @⑦				
	10	114				10	35	VPT 63-10 BGAPU @⑦				
	20	124				20	35	VPT 63-20 BGAPU @⑦				
	30	147				30	48	VPT 63-30 BGAPU @⑦				
	50	185				50	66	VPT 63-50 BGAPU @⑦				

* 单独吸盘托架订购: 将材质部分替换为 (), 如: VPT50-10BGA(J)6B

* Separate sucker carrier orders: replace material parts with(), such as: VPT50-10BGA(J)6B

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
PDC6-MSC	Ø6	M5	14.5
PDC6-01		G1/8	12
PDC4-MSC	Ø4	M5	14.5

BGA series

1.5 fold corrugated-Fixed connector type

1.5折波纹型-固定接头型



型号表示方式 Model representation

BGA 33 PU - 18M

① 吸盘类型
Suction cup type

BGA (1.5折波纹型/固定型)
1.5 fold corrugated / fixed

② 吸盘代号
Suction cup code

代号 Code	直径 Diameter
20	Ø20mm
33	Ø33mm
43	Ø43mm
53	Ø53mm
63	Ø63mm

③ 材质
Material

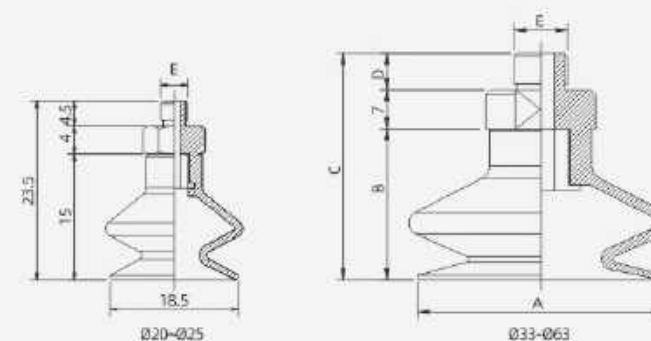
PU 聚氨酯/橙
Polyurethane / Orange

④ 选配接头
Optional connector

代号 Code	接口类型 Interface type
无	接头无附件 Joint without attachment
M5	外螺纹/M5x0.8 External thread/M5x0.8
18M	外螺纹/G1/8 External thread/G1/8
18F	内螺纹/G1/8 Internal thread/G1/8

尺寸图表(外螺纹) Dimensional chart (external thread)

BGA



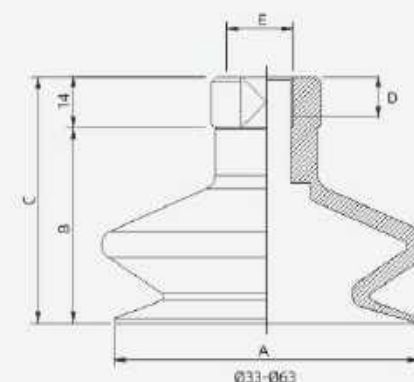
订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
BGA	20	PU	M5	-	-	-	-	M5×0.8-G1/8	BGA20PU - ④
	25			23	22.5	31	4.5	M5×0.8-G1/8	BGA25PU - ④
	33			33	27.5	41	6.5	G1/8	BGA33PU - 18M
	43			44	28	41.5			BGA43PU - 18M
	53			54.5	35	48.5			BGA53PU - 18M
	63			65	35	48.5			BGA63PU - 18M

* 单独接头订购: 将材质部分更改为(), 如: BGA33()-18M

* Separate connector order: replace the material part with (), such as: BGA33() -18M

尺寸图表(内螺纹) Dimensional chart (internal thread)

BGA



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
BGA	20	PU	18F	-	-	-	-	-	-
	25			-	-	-	-	-	-
	33			33	27.5	41.5	B	G1/8	BGA33PU - 18F
	43			44	28	42			BGA43PU - 18F
	53			54.5	35	49			BGA53PU - 18F
	63			65	35	49			BGA63PU - 18F

* 单独接头订购: 将材质部分更改为(), 如: BGA33()-18F

* Separate connector order: replace the material part with (), such as: BGA33() -18F

VBF series

1.5折波纹型 1.5 fold corrugated

主要优势 Main advantage

- 1.5折圆形波纹吸盘，用于高动态化搬运最高250 °C的高温金属板材；
 - 搬运预成型金属板材零件，波纹外形可保证最佳适应能力；
 - 零件成型后卸料；
 - 搬运薄铝，不产生变形及拉深；
 - 用于汽车行业冲压线送料系统等应用领域。
- 1.5 fold round corrugated suction cup for high dynamic handling of high temperature metal sheets up to 250 °C;
 - Handling pre-formed sheet metal parts with a corrugated shape for optimum adaptability;
 - Unloading after forming the part;
 - Carrying thin aluminum without deformation and deep drawing;
 - Used in automotive industry, such as press line feeding systems.



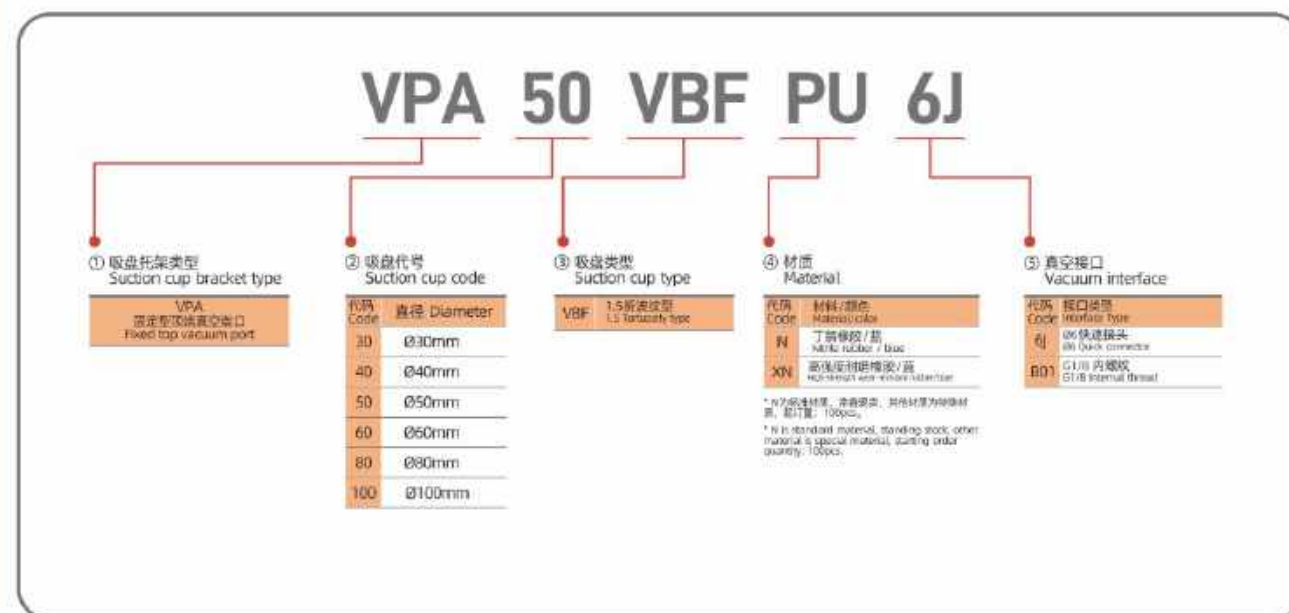
VBF series

1.5 fold corrugated-Suction cup bracket unbuffered

1.5折波纹型-吸盘托架无缓冲型

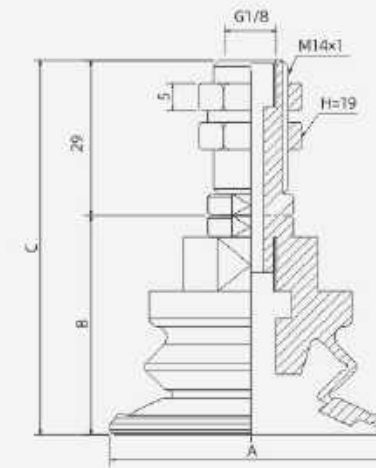


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA

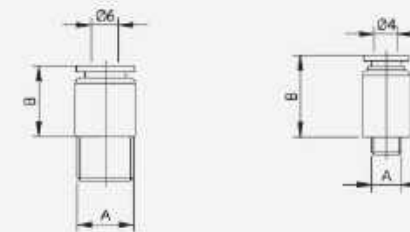


订货代号 Order code					参数 Parameter			
① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code	③ 吸盘类型 Suction cup type	④ 材质 Material	⑤ 真空接口 Vacuum interface	A	B	C	型号 Model
VPA	30	VBF	N	6J	32	30	59	VPA 30 VBF ④ ⑤
	40				41	31	60	VPA 40 VBF ④ ⑤
	50				54	39	68	VPA 50 VBF ④ ⑤
	60				64	43	72	VPA 60 VBF ④ ⑤
	80				-	-	-	-
	100				-	-	-	-

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPA30VBF(6)
* Individual suction cup bracket order: replace the material part with (), such as: VPA30VBF(6)

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-MSC	Ø4	M5	14.5

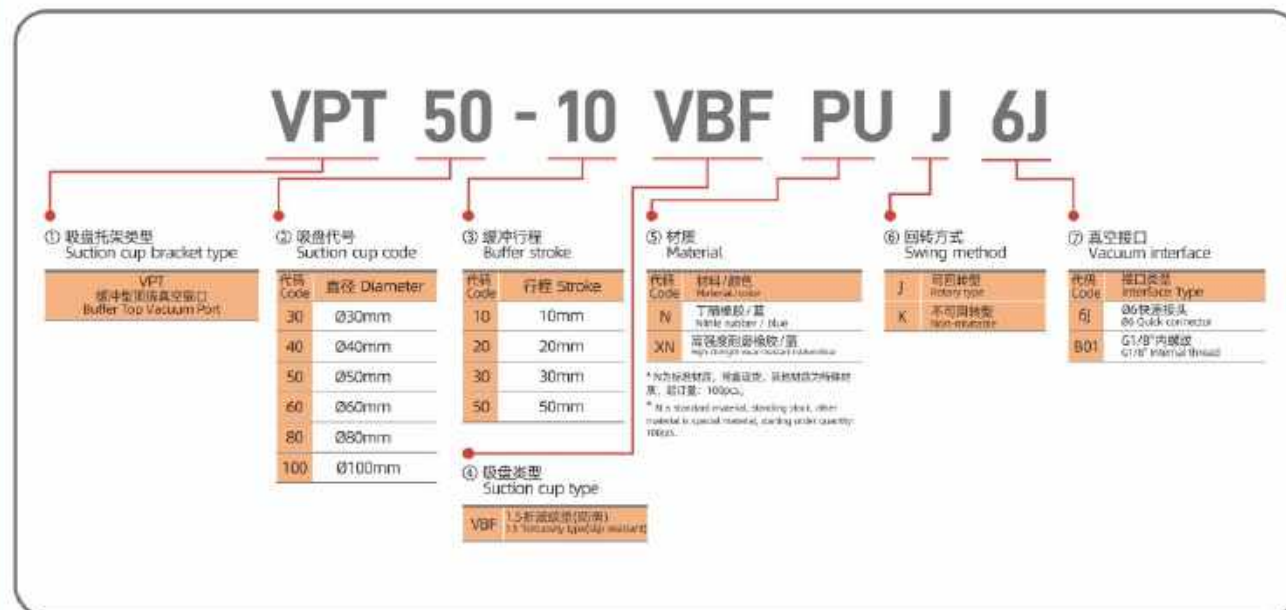
VBF series

1.5 fold corrugated-suction cup bracket with cushion type (upright)

1.5折波纹型-吸盘托架附缓冲型(直立)

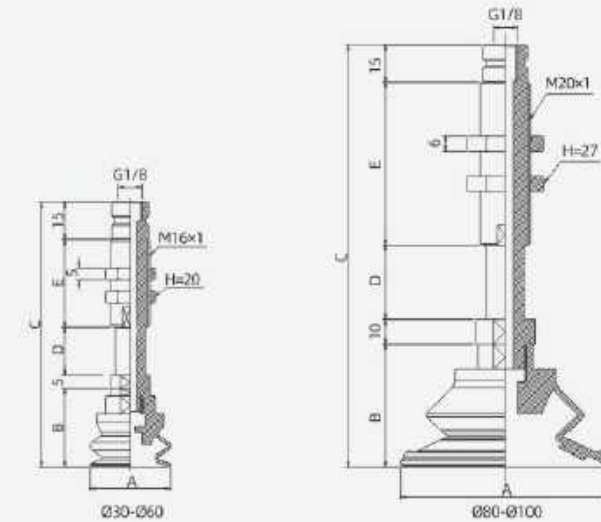


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPT

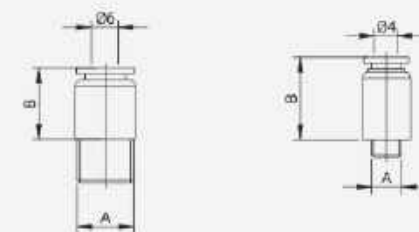


订货代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
VPT	30	10	VBF	N XN	J K	6J B01	32	30	95	10	35	VPT 30-10 VBF ①②⑦
		105							20	35	VPT 30-20 VBF ①②⑦	
		128							30	48	VPT 30-30 VBF ①②⑦	
		166							50	66	VPT 30-50 VBF ①②⑦	
	40	10					41	31	96	10	35	VPT 40-10 VBF ①②⑦
		106							20	35	VPT 40-20 VBF ①②⑦	
		129							30	48	VPT 40-30 VBF ①②⑦	
		167							50	66	VPT 40-50 VBF ①②⑦	
	50	10					54	39	104	10	35	VPT 50-10 VBF ①②⑦
		114							20	35	VPT 50-20 VBF ①②⑦	
		137							30	48	VPT 50-30 VBF ①②⑦	
		175							50	66	VPT 50-50 VBF ①②⑦	
	60	10					64	43	108	10	35	VPT 60-10 VBF ①②⑦
		118							20	35	VPT 60-20 VBF ①②⑦	
		141							30	48	VPT 60-30 VBF ①②⑦	
		179							50	66	VPT 60-50 VBF ①②⑦	
	80	30					83	50	173	30	68	VPT 80-50 VBF ①②⑦
	100	30					102	57	180	30	68	VPT 100-50 VBF ①②⑦

* 单独吸盘托架订购: 将材质部分替换为 (), 如: VPT50-10VBF()6J
* Separate sucker carrier orders: replace material parts with(), such as: VPT50-10VBF()6J

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPT



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
PDC6-MSC	Ø6	M5	14.5
PDC6-01		G1/8	12
PDC4-MSC	Ø4	M5	14.5

VBF eries

1.5 fold corrugated-Fixed connector type

1.5折波纹型-固定接头型



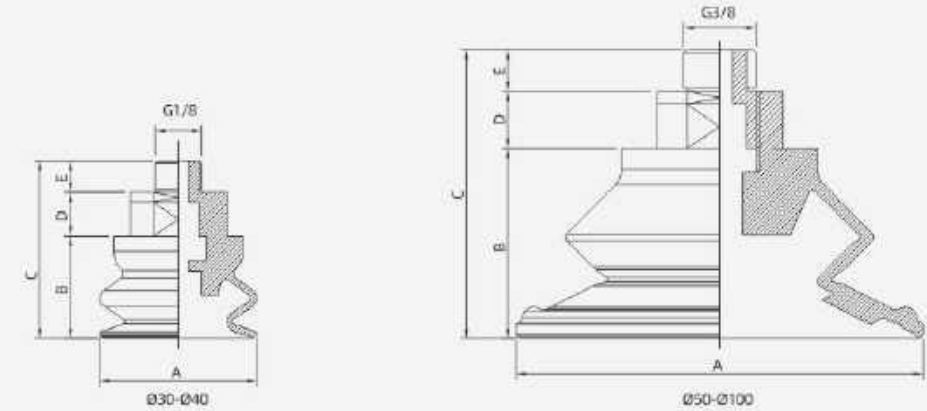
型号表示方式 Model representation

VBF 50 PU - 18M

① 吸盘类型 Suction cup type	② 吸盘代号 Suction cup code	③ 材质 Material	④ 固定接头 Fixed joint																														
VBF 1.5折波纹型(标准) 1.5 Fold corrugated (standard)	<table border="1"> <tr><th>代号 Code</th><th>直径 Diameter</th></tr> <tr><td>30</td><td>Ø30mm</td></tr> <tr><td>40</td><td>Ø40mm</td></tr> <tr><td>50</td><td>Ø50mm</td></tr> <tr><td>60</td><td>Ø60mm</td></tr> <tr><td>80</td><td>Ø80mm</td></tr> <tr><td>100</td><td>Ø100mm</td></tr> </table>	代号 Code	直径 Diameter	30	Ø30mm	40	Ø40mm	50	Ø50mm	60	Ø60mm	80	Ø80mm	100	Ø100mm	<table border="1"> <tr><th>代号 Code</th><th>材料/颜色 Material/Color</th></tr> <tr><td>N</td><td>丁腈橡胶/蓝 Nitrile rubber / Blue</td></tr> <tr><td>XN</td><td>高强度耐油橡胶/蓝 High-strength oil resistant rubber/Blue</td></tr> </table> <p>*N为标准材质, 其他材质为特殊材料, 起订量: 100pcs. *N is standard material, other material is special material, starting order quantity: 100pcs.</p>	代号 Code	材料/颜色 Material/Color	N	丁腈橡胶/蓝 Nitrile rubber / Blue	XN	高强度耐油橡胶/蓝 High-strength oil resistant rubber/Blue	<table border="1"> <tr><th>代号 Code</th><th>接口类型 Interface Type</th></tr> <tr><td>18M</td><td>G1/8"外螺纹 G1/8" External thread</td></tr> <tr><td>38M</td><td>G3/8"外螺纹 G3/8" External thread</td></tr> <tr><td>18F</td><td>G1/8"内螺纹 G1/8" Internal thread</td></tr> <tr><td>38F</td><td>G3/8"内螺纹 G3/8" Internal thread</td></tr> </table>	代号 Code	接口类型 Interface Type	18M	G1/8"外螺纹 G1/8" External thread	38M	G3/8"外螺纹 G3/8" External thread	18F	G1/8"内螺纹 G1/8" Internal thread	38F	G3/8"内螺纹 G3/8" Internal thread
代号 Code	直径 Diameter																																
30	Ø30mm																																
40	Ø40mm																																
50	Ø50mm																																
60	Ø60mm																																
80	Ø80mm																																
100	Ø100mm																																
代号 Code	材料/颜色 Material/Color																																
N	丁腈橡胶/蓝 Nitrile rubber / Blue																																
XN	高强度耐油橡胶/蓝 High-strength oil resistant rubber/Blue																																
代号 Code	接口类型 Interface Type																																
18M	G1/8"外螺纹 G1/8" External thread																																
38M	G3/8"外螺纹 G3/8" External thread																																
18F	G1/8"内螺纹 G1/8" Internal thread																																
38F	G3/8"内螺纹 G3/8" Internal thread																																

尺寸图表(外螺纹) Dimensional chart (external thread)

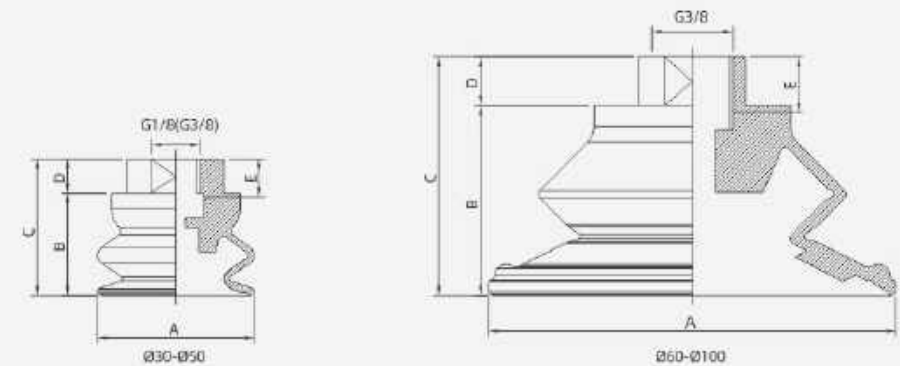
VBF



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
VBF	30	N	18M	32	21	38.5	10.5	6.5	VBF30PU - 18M
	40			41	22	37.5			VBF40PU - 18M
	50			54	27	47			VBF50PU - 18M
	60			64	31	51	12	9	VBF60PU - 18M
	80			83	40	60			VBF80PU - 38M
	100			102	47	67			VBF100PU - 38M

尺寸图表(内螺纹) Dimensional chart (internal thread)

VBF



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
VBF	30	PU	18F	32	21	28	7	9	VBF30PU - ④
	40			41	22	29			VBF40PU - ④
	50			54.8	27	37			VBF50PU - ④
	60			64	31	41	10	12	VBF60PU - ③
	80			83	40	50			VBF80PU - 38F
	100		101	47	57	VBF100PU - 38F			

BSG series

2.5折波纹型 2.5 fold corrugated

主要优势 Main advantage

- 2.5折圆形波纹吸盘，适用于搬运极敏感工件（缓冲效果最佳）；
 - 搬运管材等表面较为不平的工件（适应凹凸表面能力最佳）；
 - 内部支撑（直径52mm起）可防止工件吸入；
 - 折叠的特殊设计可实现极短节拍系统中的使用。
- 2.5 fold round corrugated suction cup for handling extremely sensitive workpieces (best cushioning effect);
 - Handling workpieces with extremely uneven surfaces such as pipes (the ability to adapt to uneven surfaces);
 - Internal support (from 52mm diameter) prevents the workpiece from being sucked in;
 - The special design of the fold allows for use in very short beat systems.



BSG series

2.5 fold corrugated-Suction cup bracket unbuffered

2.5折波纹型-吸盘托架无缓冲型

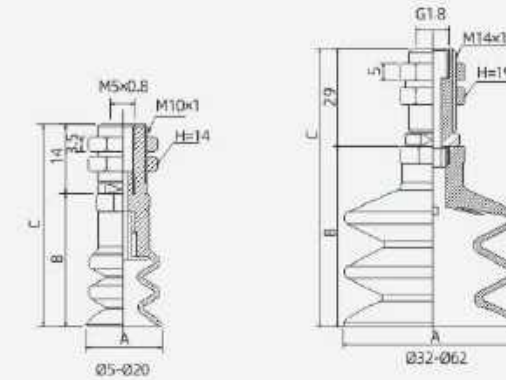


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA



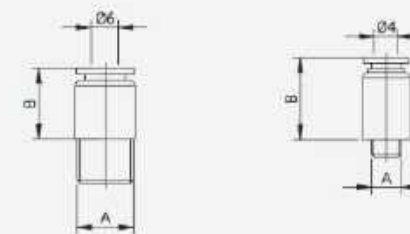
订货代码 Order code					参数 Parameter			
①	②	③	④	⑤	A	B	C	型号 Model
VPA	5	BSG	N S SE LH	6J	5.8	18.5	32.5	VPA 5 BSG @⑤
	7				7.2	12.5	26.5	VPA 7 BSG @⑤
	9				9	19.2	33.2	VPA 8 BSG @⑤
	15				15	26.7	40.7	VPA 14 BSG @⑤
	20				20	26.5	40.5	VPA 20 BSG @⑤
	32			32.8	46	75	VPA 5 BSG @⑤	
	42			42.5	55	84	VPA 8 BSG @⑤	
	52			52.5	57	86	VPA 14 BSG @⑤	
	62			62	91	91	VPA 20 BSG @⑤	

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPA3BSG(J)

* Individual suction cup bracket order: replace the material part with (), such as: VPA30BSG(J)

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connector specification	气管直径 Pipe diameter	A	B
POC6-MSC	Ø6	M5	14.5
POC6-Ø1		G1/8	12
POC4-MSC	Ø4	M5	14.5

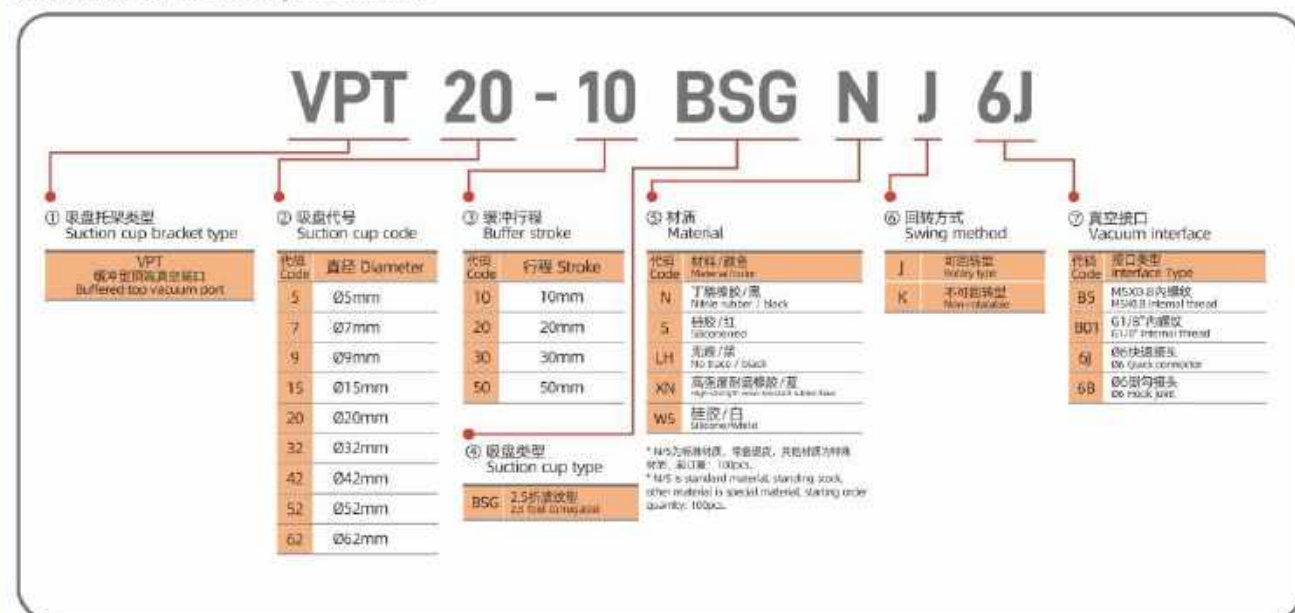
BSG series

2.5 fold corrugated-Suction cup bracket with cushion type (upright)

2.5折波纹型-吸盘托架附缓冲型(直立)

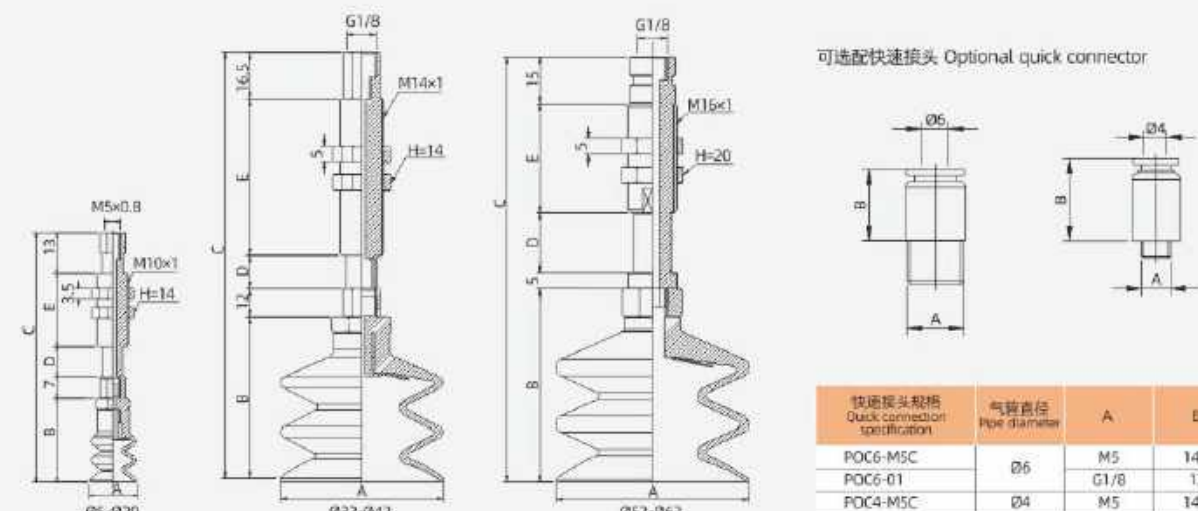


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA



订购代号 Order code							参数 Parameter					
①	②	③	④	⑤	⑥	⑦	A	B	C	D	E	型号 Model
VPT	5	10	BSG	N S LH XN	J K	6J 6B 6S	5.8	18.5	71.5	10	23	VPT 5-10 BSG ⑥⑥⑦
		20							20	51	VPT 5-20 BSG ⑥⑥⑦	
		30							30	51	VPT 5-30 BSG ⑥⑥⑦	
		50							50	77	VPT 5-50 BSG ⑥⑥⑦	
		10							65.5	10	23	VPT 7-10 BSG ⑥⑥⑦
		20							103.5	20	51	VPT 7-20 BSG ⑥⑥⑦
	7	30					113.5	30	51	VPT 7-30 BSG ⑥⑥⑦		
		50					159.5	50	77	VPT 7-50 BSG ⑥⑥⑦		
		10					72.2	10	23	VPT 9-10 BSG ⑥⑥⑦		
		20					110.2	20	51	VPT 9-20 BSG ⑥⑥⑦		
		30					120.2	30	51	VPT 9-30 BSG ⑥⑥⑦		
		50					166.2	50	77	VPT 9-50 BSG ⑥⑥⑦		
	9	10					79.7	10	23	VPT 15-10 BSG ⑥⑥⑦		
		20					117.7	20	51	VPT 15-20 BSG ⑥⑥⑦		
		30					127.7	30	51	VPT 15-30 BSG ⑥⑥⑦		
		50					173.7	50	77	VPT 15-50 BSG ⑥⑥⑦		
		10					79.5	10	23	VPT 20-10 BSG ⑥⑥⑦		
		20					117.5	20	51	VPT 20-20 BSG ⑥⑥⑦		
	20	30					127.5	30	51	VPT 20-30 BSG ⑥⑥⑦		
		50					173.5	50	77	VPT 20-50 BSG ⑥⑥⑦		
		10					131.5	11	50	VPT 32-10 BSG ⑥⑥⑦		
		20					141.5	21	50	VPT 32-20 BSG ⑥⑥⑦		
		30					151.5	31	50	VPT 32-30 BSG ⑥⑥⑦		
		50					196.5	51	75	VPT 32-50 BSG ⑥⑥⑦		
32	10	140.5	11	50	VPT 42-10 BSG ⑥⑥⑦							
	20	150.5	21	50	VPT 42-20 BSG ⑥⑥⑦							
	30	160.5	31	50	VPT 42-30 BSG ⑥⑥⑦							
	50	205.5	51	75	VPT 42-50 BSG ⑥⑥⑦							
	10	122	10	35	VPT 52-10 BSG ⑥⑥⑦							
	20	132	20	35	VPT 52-20 BSG ⑥⑥⑦							
42	30	155	30	48	VPT 52-30 BSG ⑥⑥⑦							
	50	193	50	66	VPT 52-50 BSG ⑥⑥⑦							
	10	127	10	35	VPT 62-10 BSG ⑥⑥⑦							
	20	137	20	35	VPT 62-20 BSG ⑥⑥⑦							
	30	160	30	48	VPT 62-30 BSG ⑥⑥⑦							
	50	198	50	66	VPT 62-50 BSG ⑥⑥⑦							

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPT5-10BSG(J)6B

* Individual suction cup bracket order: replace the material part with (), such as: VPT5-10BSG(J)6B

BSG series

2.5 fold corrugated-Attached type

2.5折波纹型-附接头型



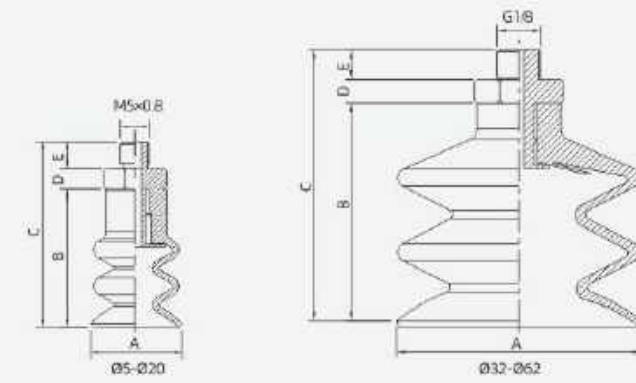
型号表示方式 Model representation

BSG 20 S - 18M

① 吸盘类型 Suction cup type		② 吸盘代号 Suction cup code		③ 材质 Material		④ 选配接头 Optional connector	
代码 Code	形状 Shape	代码 Code	直径 Diameter	代码 Code	材料/颜色 Material/Color	代码 Code	接口类型 Interface Type
BSG	2.5折波纹型 2.5 fold corrugated type	5	Ø5mm	N	丁腈橡胶/黑 Nitrile rubber / black	M5	M5x0.8 外螺纹 M5x0.8 External thread
		7	Ø7mm	S	硅胶/红 Silicone / red	18M	G1/8分螺纹 G1/8 External thread
		9	Ø9mm	LH	无规/黑 No mark / black	18F	G1/8内螺纹 G1/8 Internal thread
		15	Ø15mm	XN	高强度耐撕裂胶/蓝 High strength tear-resistant rubber / blue		
		20	Ø20mm	WS	硅胶/白 Silicone / white		
		32	Ø32mm				
		42	Ø42mm				
		52	Ø52mm				
		62	Ø62mm				

* 18F为高透明材质，重量增加，其他材料为橡胶材质，耐用量：100PCS。
* 18S is standard material, standard stock, other material is special material, standard order quantity: 100pcs.

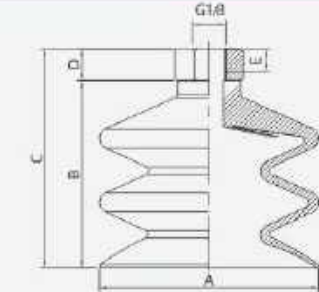
尺寸图表(外螺纹) Dimensional chart (external thread) BSG



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
BSG	5	N S SE LH XN	M5	5.8	14	22.5	4.5	4	BSG 5 ③ - M5
	7			7.2	9.5	17	3	4.5	BSG 7 ③ - M5
	9			9	15.2	23.7	4	4.5	BSG 9 ③ - M5
	15			15	22.7	31.2			BSG 15 ③ - M5
	20			20	22.5	31	5	6.5	BSG 20 ③ - M5
	32			32.8	37	48.5			BSG 32 ③ - 18M
	42			42.5	46	57.5			BSG 42 ③ - 18M
	52			52.5	48	59.5			BSG 52 ③ - 18M
	62			62	53	64.5	BSG 62 ③ - 18M		

* 单独接头订购：将材质部分替换为 ()，如：BSG32()-18M
* Separate connector order: replace the material part with (), such as: BSG32()-18M

尺寸图表(内螺纹) Dimensional chart (internal thread) BSG



订购代号 Order code				参数 Parameter							
①	②	③	④	A	B	C	D	E	型号 Model		
BSG	5	-	-	-	-	-	-	-	-		
	9			-	-	-	-	-	-		
	15			-	-	-	-	-	-		
	20			-	-	-	-	-	-		
	32			N	18F	32.8	37	46	9	8	BSG 32 ③ - 18F
	42			S		42.5	46	55			BSG 42 ③ - 18F
	52			SE		52.5	48	57			BSG 52 ③ - 18F
	52			LH		52.5	48	57			BSG 52 ③ - 18F
	62			XN		62	53	62			BSG 62 ③ - 18F

* 单独接头订购：将材质部分替换为 ()，如：BSG32()-18M
* Separate connector order: replace the material part with (), such as: BSG32()-18M



VBU series

2.5折波纹型 2.5 fold corrugated

主要优势 Main advantage

- 1.5折圆形波纹吸盘，用于纸板和托盘成型机；
- 用于在顶部装载和侧面装载设备中搬运纸板和刚性包装材料；
- 要求吸盘密封能力强的应用。
- 1.5 fold round corrugated suction cup for cardboard boxes and pallet forming machines;
- Used to carry cardboard and rigid packaging materials in top loading and side loading equipment;
- Applications requiring strong suction cup sealing.



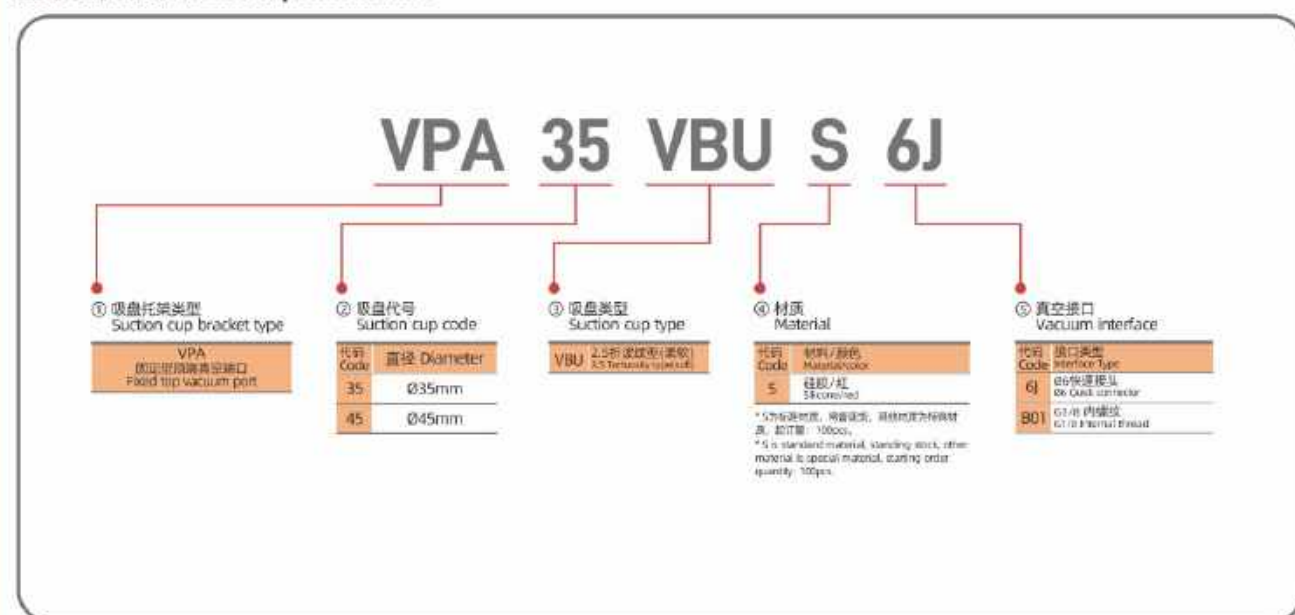
VBU series

2.5 fold corrugated-Suction cup bracket without buffering type

2.5折波纹型-吸盘托架无缓冲型

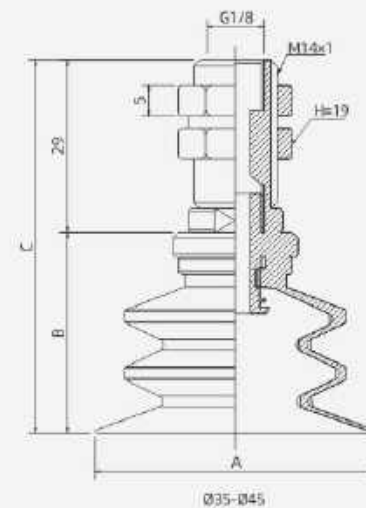


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA



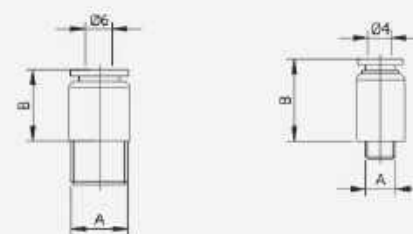
订购代号 Order code					参数 Parameter			
①	②	③	④	⑤	A	B	C	型号 Model
吸盘托架类型 Suction cup bracket type	吸盘代号 Suction cup code	吸盘类型 Suction cup type	材质 Material	真空接口 Vacuum interface				
VPA	35	VBU	S	6j	35	32.7	61.7	VPA 35 VBUS ⑤
	45			45	39	68	VPA 45 VBUS ⑤	

* 单独吸盘托架订购: 将材质部分更换为 (), 如: VPA35VBU()6j

* Individual suction cup bracket order: replace the material part with (), such as: VPA35VBU () 6j

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-M5C	Ø4	M5	14.5

VBU series

2.5 fold corrugated-Attached type

2.5折波纹型-附接头型



型号表示方式 Model representation

VBU 35 S - 18M

① 吸盘类型
Suction cup type

代码 Code	形状 Shape
VBU	2.5折波纹型(柔软) 2.5 Vertically type(S)

② 吸盘代号
Suction cup code

代码 Code	直径 Diameter
30	Ø30mm
45	Ø45mm

③ 材质
Material

代码 Code	材质/颜色 Material/Color
S	硅胶/Silicone

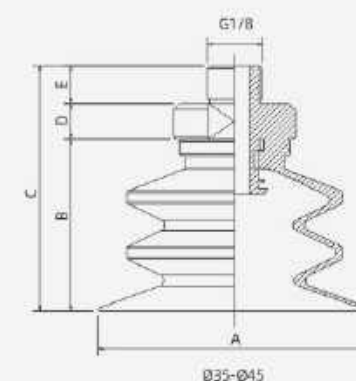
* S为通用材料, 耐油耐压, 耐高温。
* S is general material, resisting
oil, other material is special
material, start to order quantity
100pcs.

④ 选配接头
Optional connector

代码 Code	接口类型 Interface Type
无	接头无附盖型 Joint without attachment
18M	G1/8外螺纹 G1/8 External thread
18F	G1/8内螺纹 G1/8 Internal thread

尺寸图表(外螺纹) Dimensional chart (external thread)

VBU



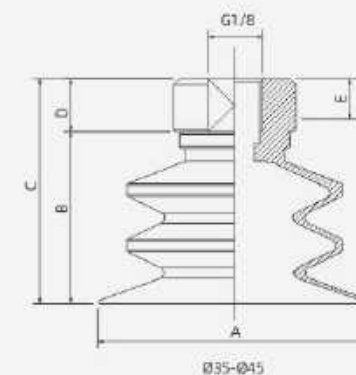
订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
吸盘类型 Suction cup type	35	S	18M	35	23.7	36.2	6	6.5	VBU35S - 18M
	45			45	30	42.5			VBU45S - 18M

* 单独接头订购: 将材质部分更换为 (), 如: VBU45(S)-18M

* Separate connector order: replace the material part with (), such as: VBU45(S)-18M

尺寸图表(内螺纹) Dimensional chart (internal thread)

VBU



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
吸盘类型 Suction cup type	35	S	18F	35	23.7	32.7	9	8	VBU35S - 18F
	45			45	30	39			VBU45S - 18F

* 单独接头订购: 将材质部分更换为 (), 如: VBU45(S)-18F

* Separate connector order: replace the material part with (), such as: VBU45(S)-18F

BGR series

2.5折波纹型 2.5 fold corrugated

主要优势 Main advantage

- 2.5折圆形波纹吸盘，用于搬运难以处理的包裹、小袋(液体包装袋)、纸箱、回收物体；
 - 采用多重硬度的吸盘设计结构，超薄柔软的唇边，带来了出色的密封性能和动态抓取中出色的抓力；
 - 在低真空度下的出色密封能力，能够搬运不同类型的物体，对真空流量的需求较低；
 - 这是一种拥有极其出色抓取能力的多功能吸盘，适用于物流、仓储、电商和回收等工况。
- 2.5 fold circular corrugated suction cup, used for handling difficult to handle packages, small bags (liquid packaging bags), cardboard boxes, and recycled objects;
 - Adopting a multi hardness suction cup design structure, the ultra-thin and soft lip edge brings excellent sealing performance and excellent grip in dynamic gripping;
 - Excellent sealing ability under low vacuum conditions, capable of handling different types of objects with low demand for vacuum flow rate;
 - This is a multifunctional suction cup with extremely excellent gripping ability, suitable for logistics, warehousing, e-commerce, and recycling conditions.



BGR series

2.5 fold corrugated-Attached type

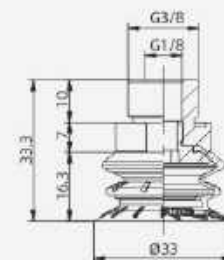
2.5折波纹型-附接头型



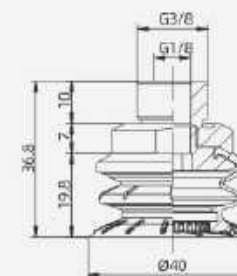
尺寸图表 Dimensional chart

BGR

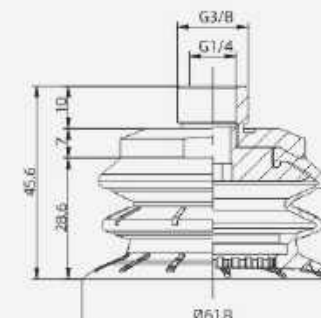
BGR35 □ -38M



BGR42 □ -38M



BGR65 □ -38M



型号表示方式 Model representation

BGR 35 S - 38M

① 吸盘类型
Suction cup type

代码 Code	形状 Shape
BGR	2.5折波纹型 2.5 Fold corrugated type

② 吸盘代号
Suction cup code

代码 Code	直径 Diameter
35	Ø33
42	Ø40
65	Ø62

③ 材质
Material

代码 Code	材料/颜色 Material/Color
S	硅胶(浅蓝色) Silicone (light blue)

④ 安装连接
Installation connection

代码 Code	接口类型 Interface Type
38M	G3/8 (外螺纹 External thread)

BG series

3.5折波纹型 3.5 fold corrugated

主要优势 Main advantage

- 4.5折圆形波纹吸盘，用于搬运包装和其它高柔性包装；
- 可靠抓取，搬运尤其是包装袋与填充量低的包裹物，以及液体、固体或粉体填充袋；
- 用于高速包装工艺，尤其适用于Delta并联机器人（装箱机和放取应用）。
- 4.5 fold round corrugated suction cup for carrying bags and other highly flexible packaging;
- Reliable handling and handling, especially for bags and low-fill packages, as well as liquid, solid or powder-filled bags;
- Used in high-speed packaging processes, especially for Delta parallel robots (boxers and pick-up applications).



BG series

3.5 fold corrugated-Attached type

3.5折波纹型-附接头型



型号表示方式 Model representation

BG 34 S - 38M

代号 Code	形状 Shape
BG	分体式3.5折波纹型 Separated 3.5 fold corrugated

代号 Code	直径 Diameter
25	Ø25mm
34	Ø34mm
41	Ø41mm
48	Ø48mm
63	Ø63mm

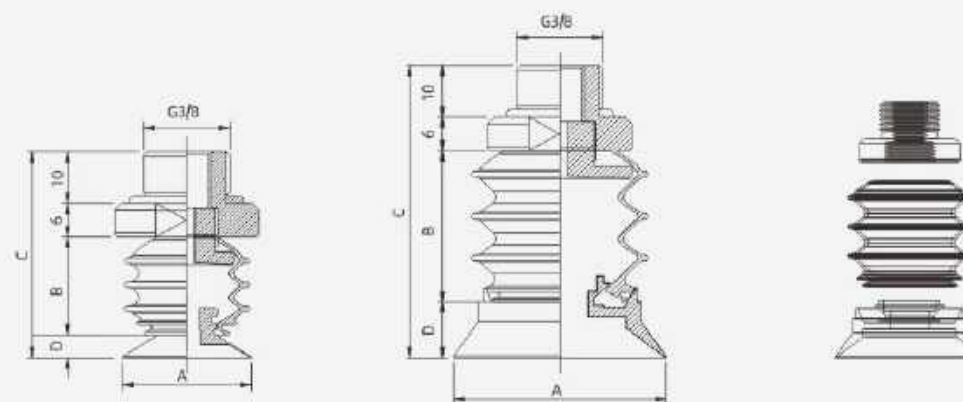
代号 Code	材料/颜色 Material/color
S	橡胶/黑 Rubber/Black
PU	聚氨酯/蓝 Polyurethane/Blue

* S为通用材料，标准颜色，标准数量为100pcs。
* S is standard material, standard color, other material is special material, standard order quantity: 100pcs.

代号 Code	接口类型 Interface type
18M	G1/8"外螺纹 G1/8" External thread
38M	G3/8"外螺纹 G3/8" External thread

尺寸图表(外螺纹) Dimensional chart (external thread)

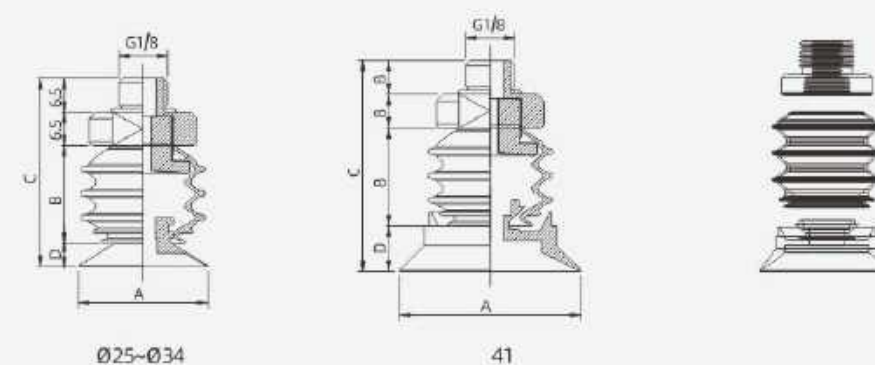
BG



订购代号 Order code				参数 Parameter				
①	②	③	④	A	B	C	D	型号 Model
BG	25	S PU	38M	25	19	40	5	BG 25 ④-38M
	34			18	43.5	9.5	BG 34 ④-38M	
	41			28.5	55.5	11	BG 41 ④-38M	
	48			28	56.5	12.5	BG 48 ④-38M	
	63			35	67.5	16.5	BG 63 ④-38M	

尺寸图表(外螺纹) Dimensional chart (external thread)

BG



订购代号 Order code				参数 Parameter				
①	②	③	④	A	B	C	D	型号 Model
BG	25	S PU	18M	25	19	37	5	BG 25 ④-18M
	34			18	40.5	9.5	BG 34 ④-18M	
	41			28.5	55.5	11	BG 41 ④-18M	
	48			-	-	-	-	-
	63			-	-	-	-	-

VBL series

4.5折波纹型 4.5 fold corrugated

主要优势 Main advantage

- 4.5折波纹形吸盘，用于搬运具有高度差、易碎的物体；
- 搬运塑胶包装食品物体。
- 4.5 fold corrugated suction cup for handling objects with height difference and fragility;
- Handling plastic packaged food objects.



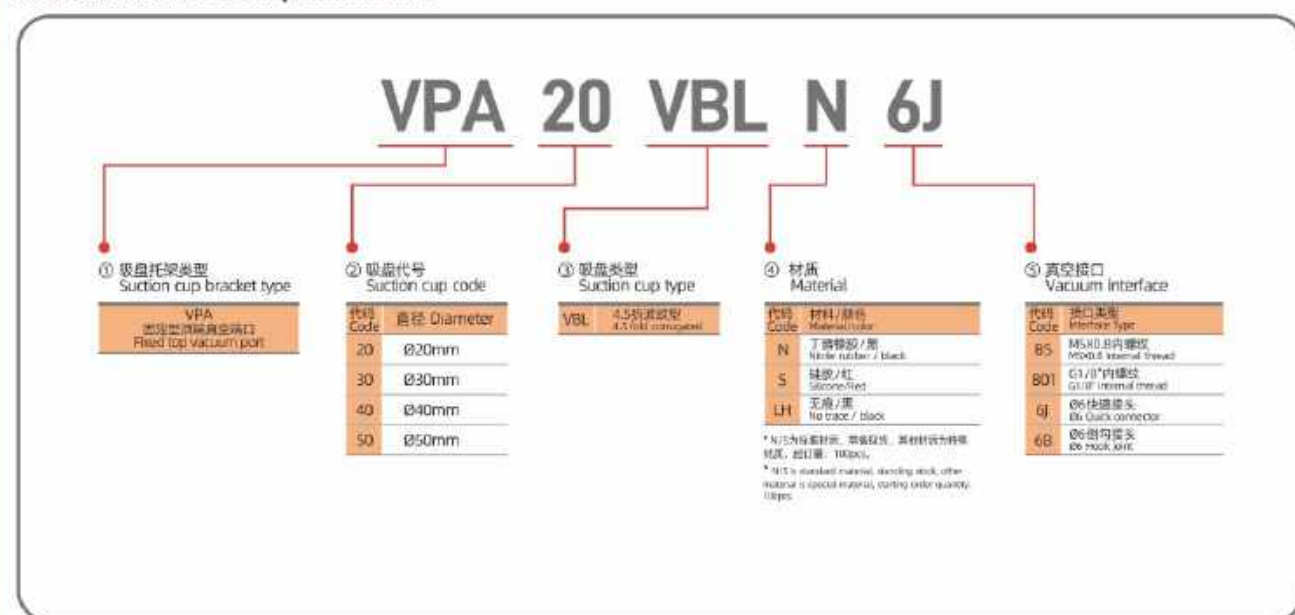
VBL series

4.5 fold corrugated-Suction cup bracket unbuffered

4.5折波纹型-吸盘托架无缓冲型

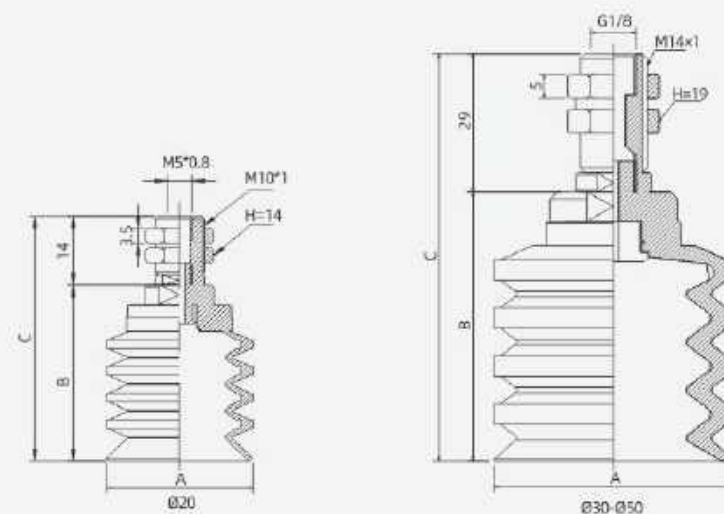


型号表示方式 Model representation



尺寸图表 Dimensional chart

VPA

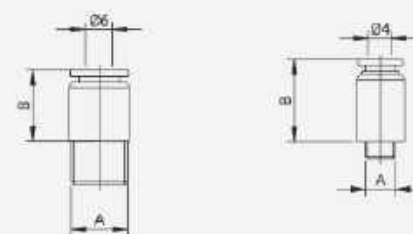


订购代号 Order code					参数 Parameter			
① 吸盘托架类型 Suction cup bracket type	② 吸盘代号 Suction cup code A	③ 吸盘类型 Suction cup type	④ 材质 Material	⑤ 真空接口 Vacuum interface	A	B	C	型号 Model
VPA	20	VBL	N S LH	6J, 6B, 6S	21	26.5	40.5	VPA 20 VBL ③⑤
	30			6J	31	40.5	69.5	VPA 30 VBL ③⑤
	40			6B	41	50	79	VPA 40 VBL ③⑤
	50			601	50	56.5	87.5	VPA 50 VBL ③⑤

* 单独吸盘托架订购：将材质部分更换为 ()，如：VPA30VBL(X)
* Separate sucker carrier orders; replace material parts with(), such as: VPA30VBL(X)

可选配快速接头尺寸图表 Dimensional chart Optional quick connector

VPA



快速接头规格 Quick connection specification	气管直径 Pipe diameter	A	B
POC6-M5C	Ø6	M5	14.5
POC6-01		G1/8	12
POC4-M5C	Ø4	M5	14.5

VBL series

4.5 fold corrugated-Attached type

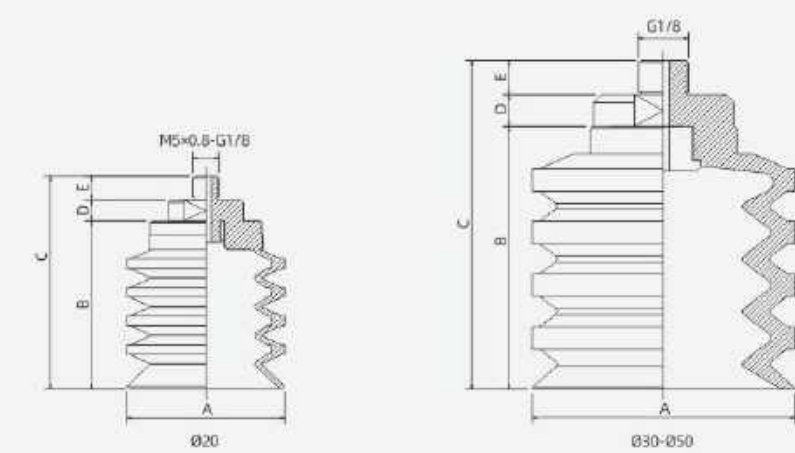
4.5折波纹型-附接头型



型号表示方式 Model representation



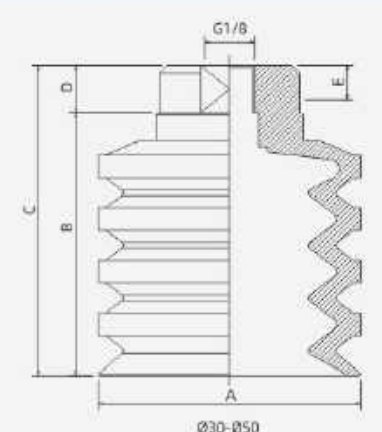
尺寸图表(外螺纹) Dimensional chart (external thread) VBL



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
VBL	20	S N LN	M5×0.8-G1/8	21	22.5	31	4	4.5	VBL 20 ①-④
	30		18M	31	31.5	44	6	6.5	VBL 30 ①-18M
	40			41	53	VBL 40 ①-18M			
	50			50.5	63.5	VBL 50 ①-18M			

* 单独接头订购: 将材质部分更换为 {}, 如: VBL40Q-18M
* Separate connector order: replace the material part with {}, such as: VBL40 {} -18M

尺寸图表(内螺纹) Dimensional chart (internal thread) VBL



订购代号 Order code				参数 Parameter					
①	②	③	④	A	B	C	D	E	型号 Model
VBL	20	S N LN	18F	21	22.5	31.5	9	7.5	VBL 20 ①-18F
	30			31	31.5	40.5			VBL 30 ①-18F
	40			41	41	50			VBL 40 ①-18F
	50			50.5	58.5	8			VBL 50 ①-18F

* 单独接头订购: 将材质部分更换为 {}, 如: VBL40Q-18F
* Separate connector order: replace the material part with {}, such as: VBL40 {} -18F

PU series

万向吸盘

Universal suction cup

主要优势 Main advantage

- 复合式特殊吸盘用于搬运敏感的塑料件、印刷电路板、纺织物或复合纤维材料；
 - 搬运带孔的电路板：工艺可靠性高，接触面积低，接触压力小；
 - 采用由FDA食品等级认证的材料制作而成的接触元件，可以直接接触干燥的食品，比如饼干、点心、蛋糕、华夫饼等；
 - 搬运空白电路板。
- Composite special suction cups for handling sensitive plastic parts, printed circuit boards, textile or composite fiber materials;
 - Handling a circuit board with holes; high process reliability, low contact area, and low contact pressure;
 - Contact elements made from FDA food grade certified materials can be in direct contact with dry foods such as biscuits, snacks, cakes, waffles, etc.
 - Carry a blank circuit board.



PU series

Universal type-Suction cup bracket unbuffered

万向型-吸盘托架无缓冲型



型号表示方式 Model representation

PUGB 60 N

① 吸盘类型
Suction cup type

PU Code	形状 Shape
PUGB	万向型 Universal type
PU	单独吸盘 Separate sucker

② 吸盘代号
Suction cup code

PU Code	直径 Diameter
60	Ø60mm
80	Ø80mm
100	Ø100mm

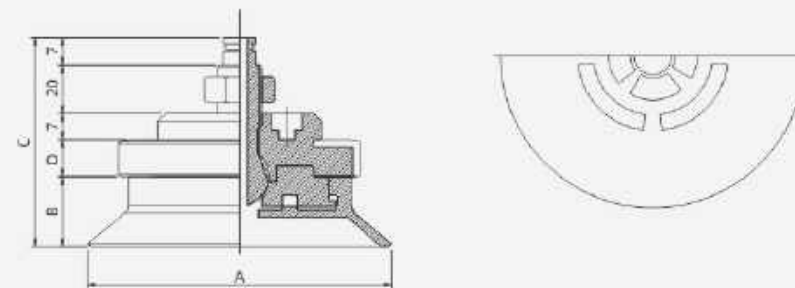
③ 材质
Material

PU Code	材料 / 颜色 Material/color
N	丁腈橡胶 / 黑 Nitrile rubber / Black
S	硅橡胶 / 白 Silicone rubber / White

* S为特殊材质，单独订货，其他材料均按标准。
* S is special material, standing stock, other material is standard material.
* S is standard material, standing stock, other material is special material, standing code quantity: 100pcs.

尺寸图表 Dimensional chart

PUGB



订购代号 Order code			参数 Parameter				
①	②	③	A	B	C	D	型号 Model
PUGB	60	N S	61	8.5	53.5	11	PUGB 60-③
	80		82	10.3	54.3	10	PUGB 80-③
	100		101	10.6	54.6	10	PUGB 100-③

尺寸图表 Dimensional chart

PU



订购代号 Order code			参数 Parameter			
①	②	③	A	B	C	型号 Model
PU	60	N S	61	16.5	46.2	PU 60-③
	80		82	18.8	60.2	PU 80-③
	100		101	17.6	78	PU 100-③

UF series

非接触式吸盘

Non-contact suction cup

主要优势 Main advantage

- 复合式特殊吸盘用于搬运敏感的塑料件，印刷电路板，纺织物或复合纤维材料；
 - 搬运带孔的电路板：工艺可靠性高，接触面积低，接触压力小；
 - 采用由FDA食品等级认证的材料制作而成的接触元件，可以直接接触干燥的食品，比如饼干，点心，蛋糕，华夫饼等；
 - 搬运空白电路板。
- Composite special suction cups for handling sensitive plastic parts, printed circuit boards, textile or composite fiber materials;
 - Handling a circuit board with holes; high process reliability, low contact area, and low contact pressure;
 - Contact elements made from FDA food grade certified materials can be in direct contact with dry foods such as biscuits, snacks, cakes, waffles, etc.
 - Carry a blank circuit board.



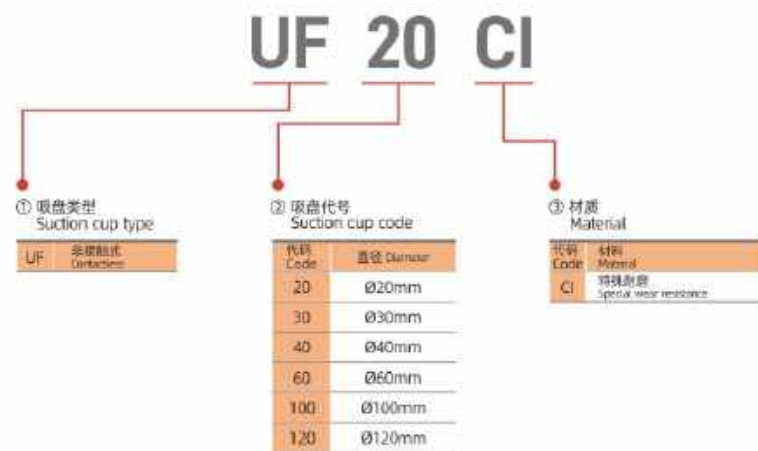
UF series

Special function type-Contactless

特殊功能型-非接触式

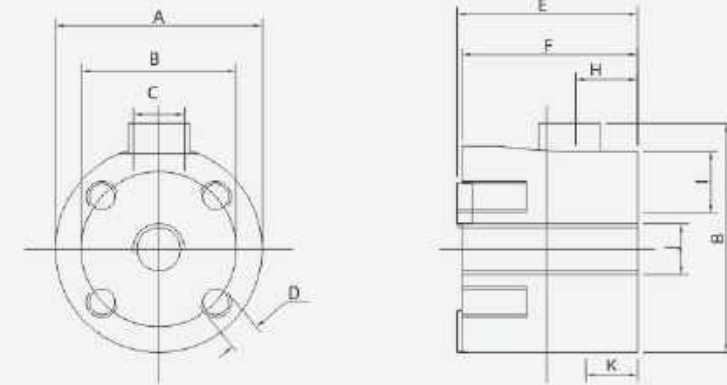


型号表示方式 Model representation



尺寸图表 Dimensional chart

UF



订购代号 Order code		参数 Parameter										
①	②	A	B	C	D	E	F	H	I	J	K	型号 Model
吸盘类型 Suction cup type	吸盘代号 Suction cup code a											
UF	20	20	15	M5	M3	17.5	17	6	6	G1/8	5	UF 20-CI
	30	30	22									UF 30-CI
	40	30	32	UF 40-CI								
	60	60	45	UF 60-CI								
	100	100	75	UF 100-CI								
	120	120	105	UF 120-CI								

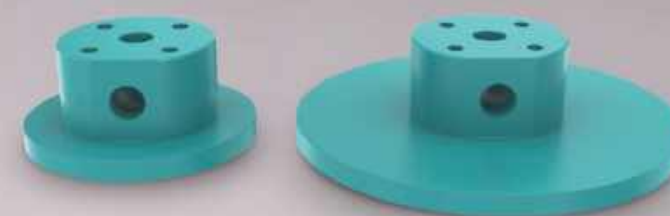
UH series

非接触式吸盘

Non-contact suction cup

主要优势 Main advantage

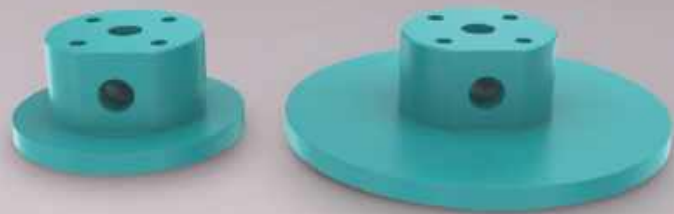
- 最大程度的减少与工件的接触，柔和抓取工件；耗气量低，能源成本低；
 - 噪音小；可靠分离多孔和透气材料；最大限度减少装配和安装；
 - 适用于搬运厚度薄且极其精密和脆弱的工件；
 - 适用于光伏行业。
- Minimize contact with the workpiece to the greatest extent and gently grasp the workpiece; Low gas consumption and low energy cost;
 - Low noise; Reliable separation of porous and breathable materials; Minimize assembly and installation to the greatest extent possible;
 - Suitable for handling workpieces with thin thickness, extremely precision, and fragility;
 - Suitable for the photovoltaic industry.



UH series

Special function type-Contactless

特殊功能型-非接触式

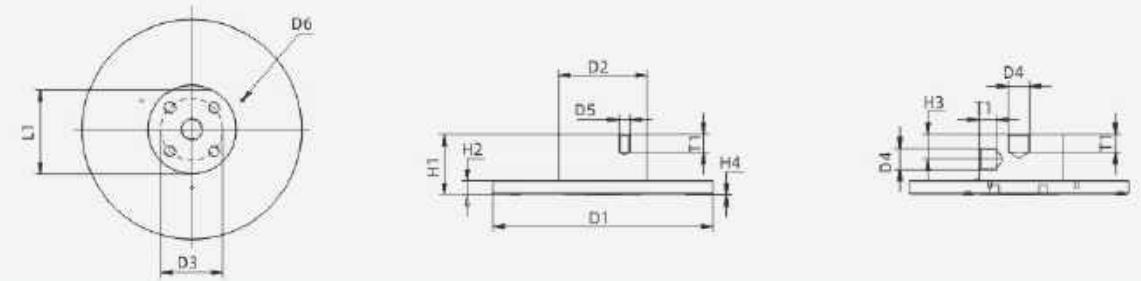


型号表示方式 Model representation



尺寸图表 Dimensional chart

UH



型号 Model	D1 Ø	D2 Ø	D3 Ø	D4 Ø	D5	D6 Ø	H1	H2	H3	H4	L1	T1
UH-60	59.5											
UH-100	99.5	40	28	G1/8	M5	1.7	30	8	11	0.4	38	8
UH-140	139.5											

主要技术参数 Main technical parameters

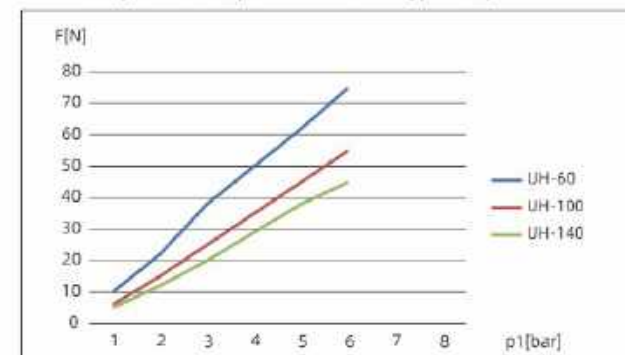
吸盘 Suction cup mm	气接口 Gas interface	备选接口 Alternative interfaces	连接位置 Connection location	安装方式 Installation method	安装位置 Installation location
Ø60	G1/8	G1/8	位于顶部/侧部 Located at the top/side	通过内螺纹 Through internal threads	任意 Arbitrarily
Ø100					
Ø140					

性能参数 Performance parameter

垫片 Shim mm	吸盘 Suction cup l/min	额定工作压力1bar Rated working pressure of 1 bar				
		耗气量 Gas consumption N	吸附力 Adsorption capacity N	侧向力 lateral force dB(A)	噪音水平 Noise level dB(A)	声功率级 Sound power level dB(A)
标准 Standard	Ø60	110	10	1	65	78
	Ø100		7	1		
	Ø140		7	1		
用于大侧向力 Used for large lateral forces	Ø60		7	15		
	Ø100		6	12		
	Ø140		6	12		

吸附力F与工作压力p1的关系

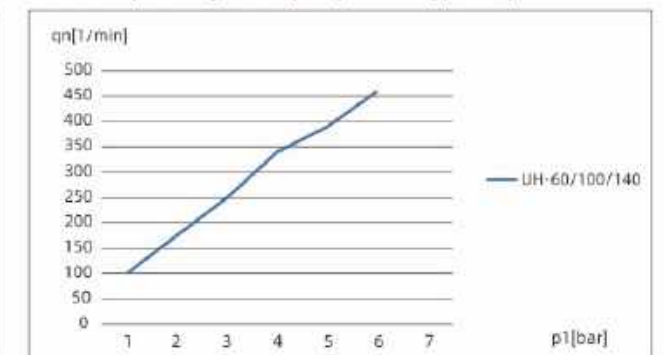
The relationship between adsorption force F and working pressure p1



-N -PA	10	20	30	40	50	60	70	80
型号 Model	1	2	3	4	5	6	7	
UH-60	10	22	38	50	62	75		
UH-100	6	15	25	35	45	55		
UH-140	5	12	20	29	38	45		

耗气量qn与工作压力p1的关系

The relationship between gas consumption qn and working pressure p1



-l/min -PA	50	100	150	200	250	300	350	400	450
型号 Model	1	2	3	4	5	6	7		
UH-60/100/140	100	175	250	340	390	460			

MEMO

真空发生器

Vacuum generator

- 221 · VTMZ 多功能型 Multifunctional
- 225 · VK 多功能真空发生器 Multifunctional vacuum generator
- 233 · VTN 多功能型 Multifunctional
- 235 · VTM 大通量型 Large flow type
- 237 · VTX 超真空型 High vacuum type
- 239 · BGV 多功能型 Multifunctional
- 241 · VG 节能型 Energy saving type
- 243 · VTMH 超真空型 High vacuum type
- 245 · VTA 搬运用真空发生器 Conveying generator
- 247 · VY 非接触型真空发生器 Vacuum breaking
- 249 · VZH 灯型 light
- 253 · VAC 伞形伞吸型 Suck stick type
- 255 · VBH 泵吸型 Mini
- 257 · VCJ 喷射型真空发生器 Jet vacuum generator
- 261 · VM 抽气型 Base generator
- 263 · VUH 直管型 Straight tube type
- 265 · VZU 螺旋管型 Fan generator
- 267 · VCH 泵吸型 Mini



VTMZ series

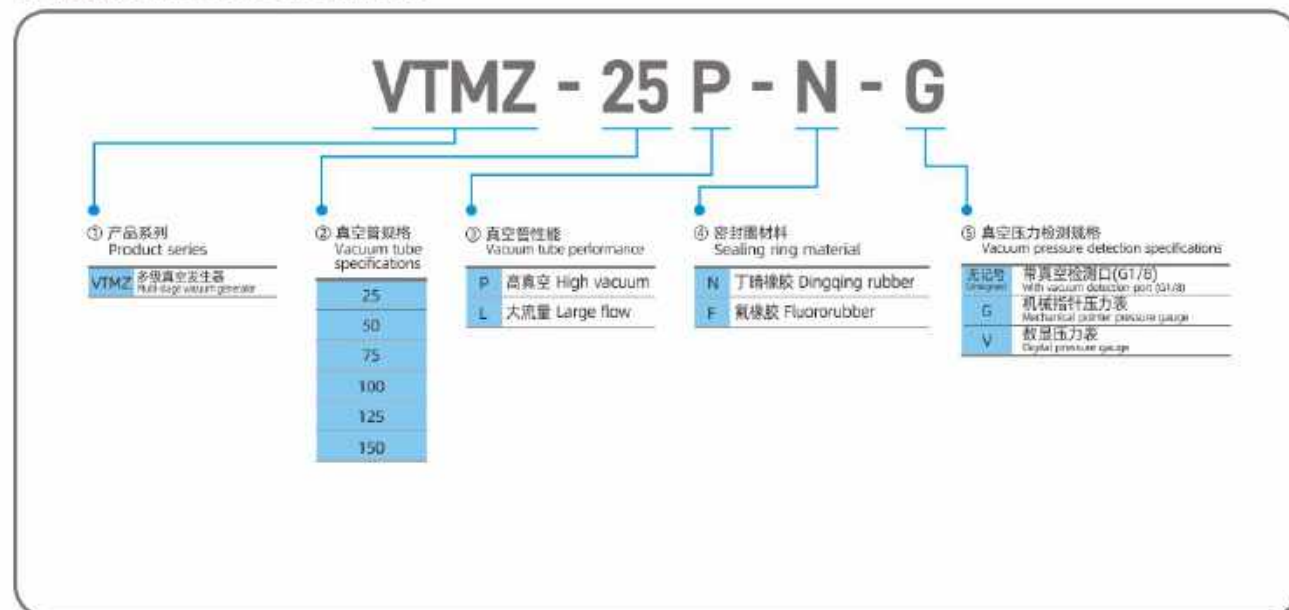
Vacuum generator-Multifunctional

真空发生器-多功能型



- 高真空度;
 - 可附带节能阀, 吸附不透气工件时, 降低压缩空气的消耗;
 - 采用多个三段真空管, 真空流量大, 适用于吸附透气性产品;
 - 适用于真空流量需求较高, 真空产生速度快且低消耗的情况;
 - 采用PA塑料注塑一体成型, 适用于低温、有危险气体、高腐蚀性等环境中工作。
- High vacuum degree;
 - Can be equipped with an energy-saving valve to reduce the consumption of compressed air when adsorbing non breathable workpieces;
 - Adopting multiple three-stage vacuum tubes with high vacuum flow rate, suitable for adsorbing breathable products;
 - Suitable for situations with high vacuum flow demand, fast vacuum generation speed, and low consumption;
 - Adopting PA plastic injection molding, suitable for working in environments such as low temperature, hazardous gases, and high corrosive acidity.

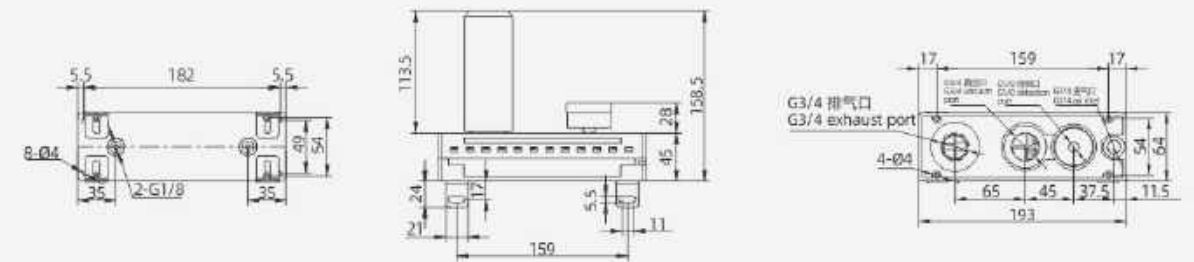
型号表示方式 Model representation



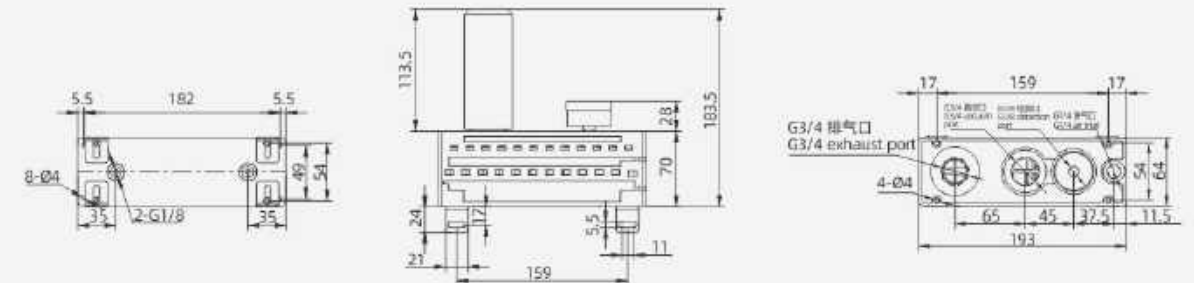
尺寸图表 Dimensional chart

VTMZ

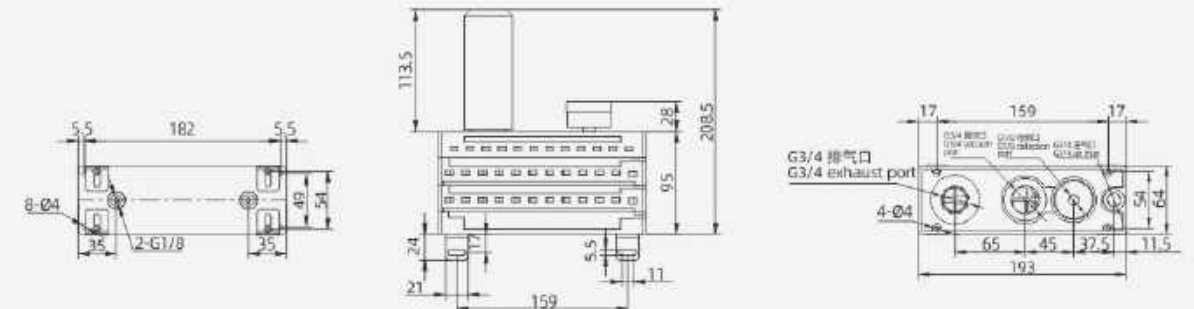
VTMZ-(25~50)P/L



VTMZ-(75~100)P/L



VTMZ-(125~150)P/L



产品参数 Product parameters

型号 Model	供气压力 Air supply pressure bar	最大真空度 Maximum vacuum kPa	最大真空流量 Maximum vacuum flow NL/min	空气消耗量 Air consumption NL/min
VTMZ-25P	5	92	352	134
VTMZ-50P			704	268
VTMZ-75P			1056	402
VTMZ-100P			1408	536
VTMZ-125P			1760	670
VTMZ-150P			2112	804

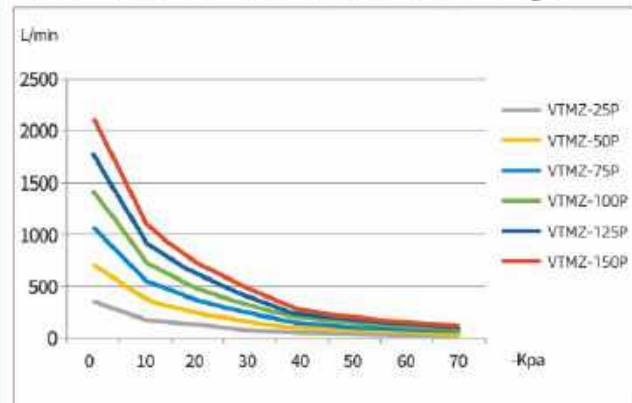
不同真空度(-kPa)的真空流量 (NL/min) Vacuum flow (NL/min) for different vacuum degree (-kPa)

型号 Model	供气压力 Air supply pressure bar	空气消耗量 Air consumption NL/min	0	10	20	30	40	50	60	70
VTMZ-25P	5	134	352	182	121	78	44	34	26	19
VTMZ-50P		268	704	364	242	156	88	70	52	38
VTMZ-75P		402	1056	546	363	234	132	104	78	57
VTMZ-100P		536	1408	728	484	312	176	140	103	76
VTMZ-125P		670	1760	910	605	390	220	174	130	95
VTMZ-150P		804	2112	1092	726	468	264	206	155	114

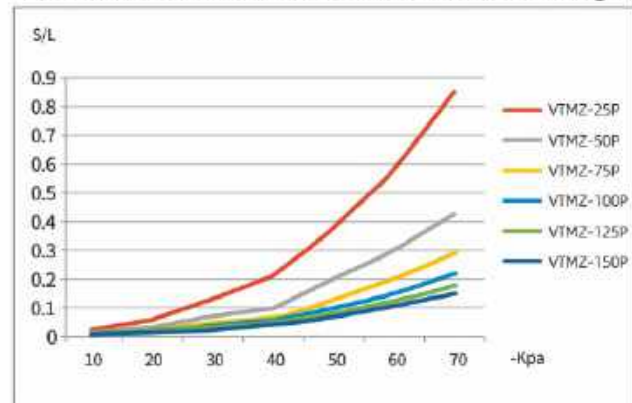
不同真空度(-kPa)的真空抽气时间 (S/L) Vacuum pumping time with different vacuum degrees (-kPa) (S/L)

型号 Model	供气压力 Air supply pressure bar	空气消耗量 Air consumption NL/min	10	20	30	40	50	60	70
VTMZ-25P	5	134	0.023	0.061	0.13	0.21	0.38	0.56	0.85
VTMZ-50P		268	0.012	0.03	0.07	0.1	0.2	0.3	0.43
VTMZ-75P		402	0.008	0.02	0.05	0.06	0.13	0.2	0.29
VTMZ-100P		536	0.007	0.015	0.04	0.054	0.1	0.15	0.22
VTMZ-125P		670	0.006	0.013	0.027	0.043	0.08	0.12	0.18
VTMZ-150P		804	0.006	0.011	0.023	0.042	0.07	0.11	0.15

各真空度真空流量折线图 Vacuum flow line chart of each vacuum degree



各真空度实现时间折线图 Line chart of realization time of each vacuum degree



产品参数 Product parameters

型号 Model	供气压力 Air supply pressure bar	最大真空度 Maximum vacuum kPa	最大真空流量 Maximum vacuum flow NL/min	空气消耗量 Air consumption NL/min
VTMZ-25L	5	72	326	114
VTMZ-50L			652	228
VTMZ-75L			978	342
VTMZ-100L			1304	456
VTMZ-125L			1630	570
VTMZ-150L			1956	684

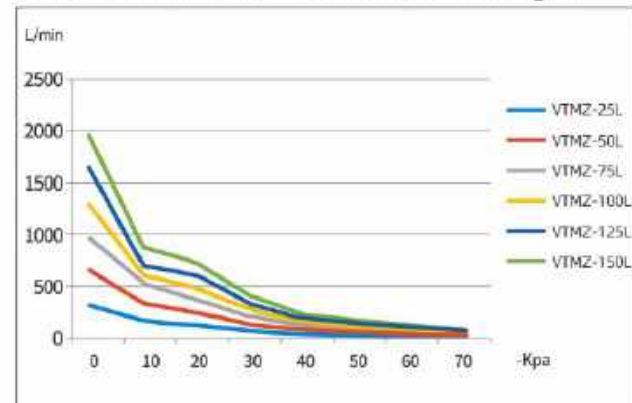
不同真空度(-kPa)的真空流量 (NL/min) Vacuum flow (NL/min) for different vacuum degree (-kPa)

型号 Model	供气压力 Air supply pressure bar	空气消耗量 Air consumption NL/min	0	10	20	30	40	50	60	70
VTMZ-25L	5	114	326	176	122	68	39	30	21	15
VTMZ-50L		228	652	352	244	136	78	60	42	30
VTMZ-75L		342	978	528	366	204	117	90	63	45
VTMZ-100L		456	1304	600	488	272	156	120	84	60
VTMZ-125L		570	1630	704	610	340	195	150	105	75
VTMZ-150L		684	1956	880	732	408	234	180	126	90

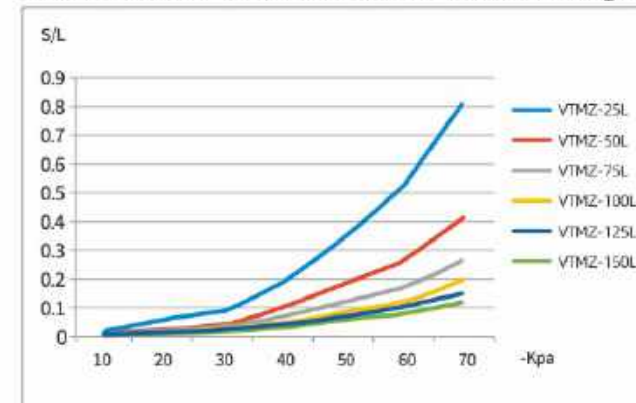
不同真空度(-kPa)的真空抽气时间 (S/L) Vacuum pumping time with different vacuum degrees (-kPa) (S/L)

型号 Model	供气压力 Air supply pressure bar	空气消耗量 Air consumption NL/min	10	20	30	40	50	60	70
VTMZ-25L	5	114	0.021	0.06	0.09	0.19	0.34	0.52	0.81
VTMZ-50L		228	0.011	0.026	0.04	0.1	0.18	0.26	0.41
VTMZ-75L		342	0.008	0.018	0.032	0.07	0.12	0.17	0.26
VTMZ-100L		456	0.006	0.014	0.024	0.046	0.084	0.12	0.19
VTMZ-125L		570	0.006	0.013	0.021	0.037	0.067	0.1	0.15
VTMZ-150L		684	0.005	0.011	0.017	0.031	0.056	0.08	0.12

各真空度真空流量折线图 Vacuum flow line chart of each vacuum degree



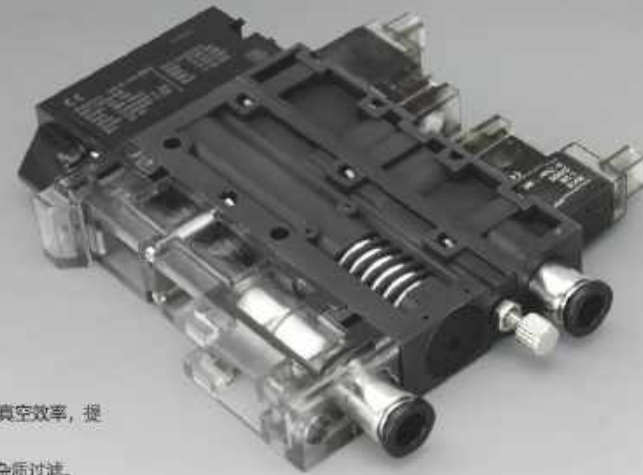
各真空度实现时间折线图 Line chart of realization time of each vacuum degree



VK series

Multifunctional vacuum generator

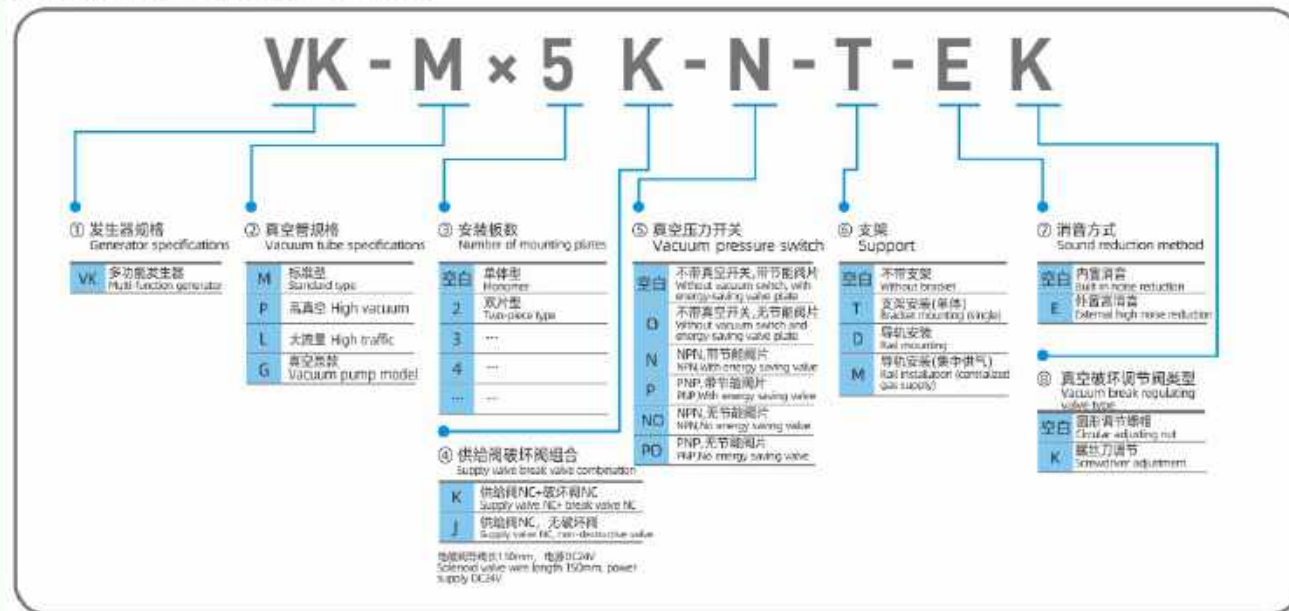
多功能真空发生器



- 节能型真空发生器, 空气消耗减90%(与一段式发生器相比)真空效率, 提高耗气量减少30%。
- 小型化、轻量化、一体化设计, 带信号反馈, 反吹释放、杂质过滤。
- 过滤器可以目视检查清洁状态, 方便清洗。
- 安装方式多样化。

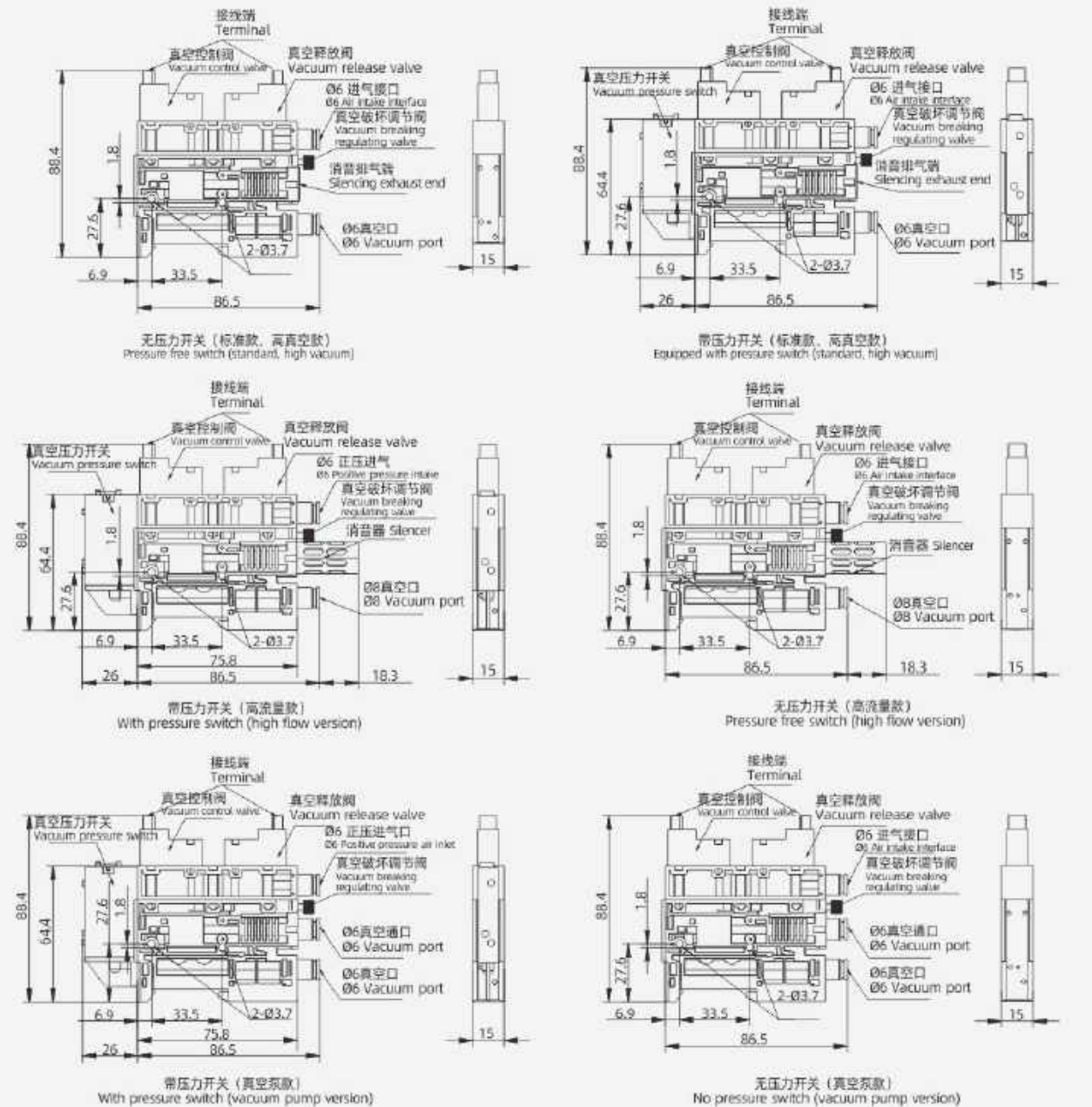
- The energy-saving vacuum generator reduces air consumption by 90% (compared to a one-stage generator) and increases air consumption by 30%.
- Miniaturization, lightweight, integrated design, with signal feedback, backflush release, impurity filtration.
- The filter can be visually inspected for cleanliness for easy cleaning.
- The installation method is diversified.

型号表示方式 Model representation



尺寸图表 Dimensional chart

VK



不同真空度 (-kPa) 的真空流量 (L/min) Vacuum flow rate (L/min) with different vacuum (-kPa)

型号 Model	供气压力 Gas supply pressure bar	空气消耗量 Air consumption L/min	0	10	20	30	40	50	60	70	80	90
VK-P	5	35	39.0	30.0	20.0	13.0	9.1	6.2	4.1	2.9	2.4	1.9
VK-M		53	41.0	31.0	20.5	13.3	9.5	6.5	4.5	3.1	2.5	2.0
VK-L		58	68.0	55.0	43.0	27.0	15.0	8.3	5.2	4.3	2.3	-
VK-G		-	-	-	-	-	-	-	-	-	-	-

不同真空度 (-kPa) 的真空抽气时间 (s/L) Vacuum pumping time (s/L) with different vacuum (-kPa)

型号 Model	供气压力 Gas supply pressure bar	真空度 Vacuum -kPa	10	20	30	40	50	60	70	80	90
VK-P	5	92	0.07	0.10	0.14	0.21	0.28	0.38	0.52	0.68	0.85
VK-M		90	0.07	0.10	0.15	0.22	0.30	0.40	0.55	0.70	0.87
VK-L		88	0.06	0.09	0.12	0.18	0.25	0.35	0.46	0.60	-
VK-G		-	-	-	-	-	-	-	-	-	-

性能参数 Performance parameter

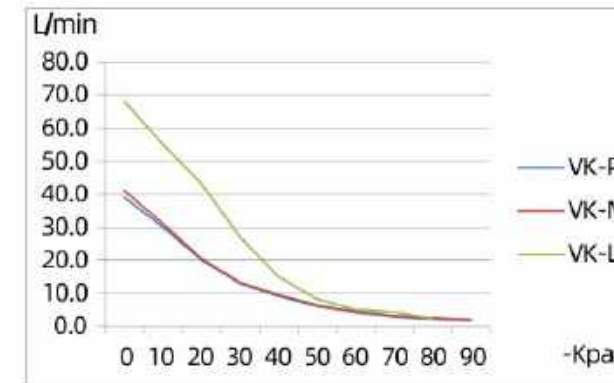
型号 Model	KP92P-□ (高压)		
额定压力范围 Rated pressure range	-0.100~0.100MPa		
设定压力范围 Set pressure range	-0.101~0.101MPa		
耐压力 Pressure resistance	1.5MPa		
通用气体 General gas	空气, 非腐蚀性, 不可燃性 Air, non-corrosive, non-flammable		
压力单位设定 最小刻度 Pressure unit setting minimum scale	kPa	-	
	MPa	0.001	
	kgf/cm ²	0.01	
	bar	0.01	
	psi	0.1	
	inHg	-	
	mmHg	-	
电源电压 Voltage	12to24VDC±10%, 波峰(P-P) 10%以下 12to24VDC ± 10%, wave peak (P-P) below 10%		
消耗电流 Current consumption	≤40mA(无负载时) ≤ 40mA (without load)		
开关输出 Switch output	输出模式 Output mode	2NPN或2PNP开集电极输出 2NPN or 2PNP open collector output	
	最大负载电流 Maximum load current	125mA	
	电源电压 Power supply voltage	30VDC (NPN output), 24VDC (PNP output)	
	内部压降 Internal pressure drop	≤1.5V	
响应时间 Response time	≤2.5ms(预防误动作功能: 25ms, 100ms, 250ms, 500ms, 1000ms, 和1500ms可选择) ≤ 2.5ms (anti misoperation function: 25ms, 100ms, 250ms, 500ms, 1000ms, and 1500ms can be selected)		
输出短路保护 Output short-circuit protection	有 Have		
线性类比输出 Linear analog output	输出电压 Output voltage	0.6~5V±2.5%F.S.(额定压力范围内) 0.6~5V ± 2.5% F.S. (within the rated pressure range)	
	输出阻抗 Output impedance	约1kΩ About 1k Ω	
	非线性 Straightness	±1%F.S.	
显示 Show	3½位 LED 7段显示(红) three 3½LED 7-segment display (red)		
动作指示灯 Action indicator light	OUT1 绿色 / OUT2 红色 OUT1 green / OUT2 red		
重复精度 Repeating accuracy	约0.2秒 About 0.2 seconds		
显示精度 Display accuracy	±2% F.S. ±1 digit (在周围温度: 25±3°C) ± 2% F.S. ± 1 digit (at ambient temperature of 25±3°C)		
重复精度 Repeating accuracy	±0.2% F.S. ±1 digit		
耐环境 Environmentally resistant	防护等级 Protection level	IP40	
	周围温度 Surrounding temperature	动作: 0~50°C, 保存: -10~60°C (无水露不结冰情况下) Action: 0~50 °C, Storage: -10~60°C (in the absence of water, dew, or ice)	
	周围湿度 Surrounding humidity	动作及保存: 35~85% RH (无水露) Action and storage: 35~85% RH (anhydrous dew)	
	耐电压 Withstand voltage	1000V AC 1分钟(引线及塑胶外壳间) 1000V AC for 1 minute (between leads and plastic casing)	
	绝缘阻抗 Insulation resistance	50MΩ以上(500V DC)(引线及塑胶外壳间) 50M Ω or above (500V DC) (between leads and plastic casing)	
	耐振动 Vibration resistance	复振幅 1.5mm 每一分钟 10Hz~150Hz-10Hz, X, Y, Z 每个方向各2小时 Complex amplitude 1.5mm, 10Hz~150Hz-10Hz per minute, 2 hours in each direction of X, Y, and Z	
	耐冲击 Impact resistance	980m/s ² (100G) X, Y, Z 每个方向各3次 980m/s ² (100G) X, Y, Z, 3 times in each direction	
温度特性 Temperature characteristics	±2% F.S. 比较参考温度 25°C (0~50°C 温度范围内) ± 2% F.S. Comparison reference temperature 25°C (within the temperature range of 0~50 °C)		
电线规格 Wire specifications	耐油PVC电线(0.15mm ²) Oil resistant PVC wire (0.15mm ²)		
重量 Weight	约55g(包含2公尺的电线) Approximately 55g (including 2 meters of wire)		

真空管规格 Vacuum tube specifications

型号 Model	进气口管径 Inlet pipe diameter	真空口管径 Vacuum port diameter	最大真空度 Maximum vacuum -kPa	最大真空流量 Maximum vacuum flow L/min	空气消耗量 Air consumption L/min
高真空P High vacuum P	6	6	92	39	35
标准款M High vacuum M	6	6	90	41	33
大流量L High traffic L	6	8	88	68	88
真空泵款G Vacuum pump model G	6	6	-	-	-

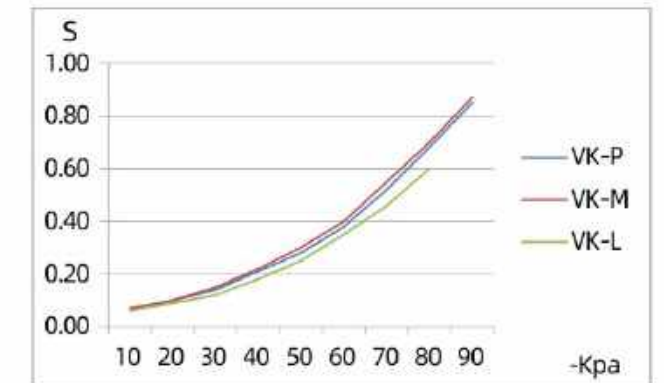
各真空度真空流量折线图

Line chart of vacuum flow rate for each vacuum degree

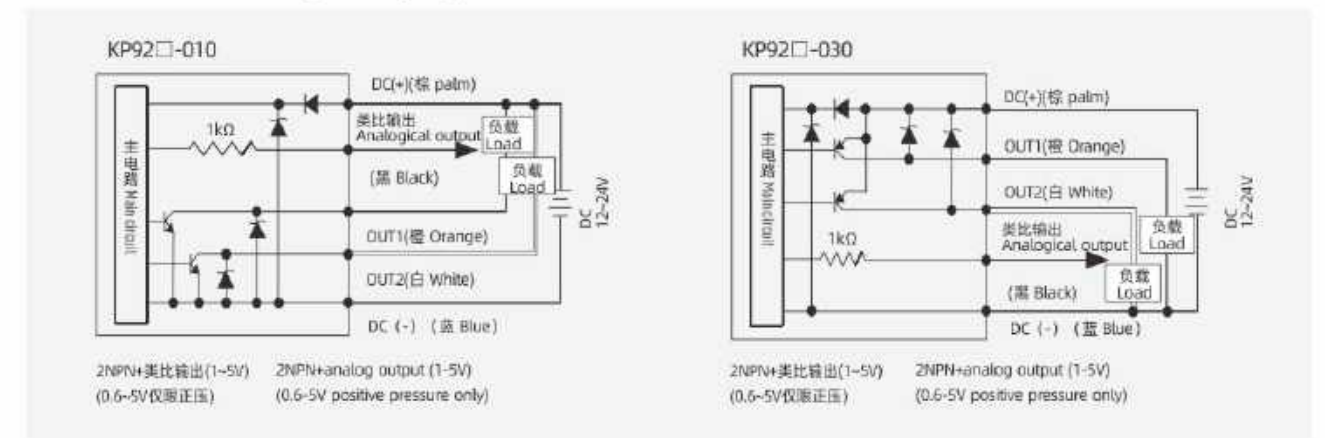


各真空度实现时间折线图

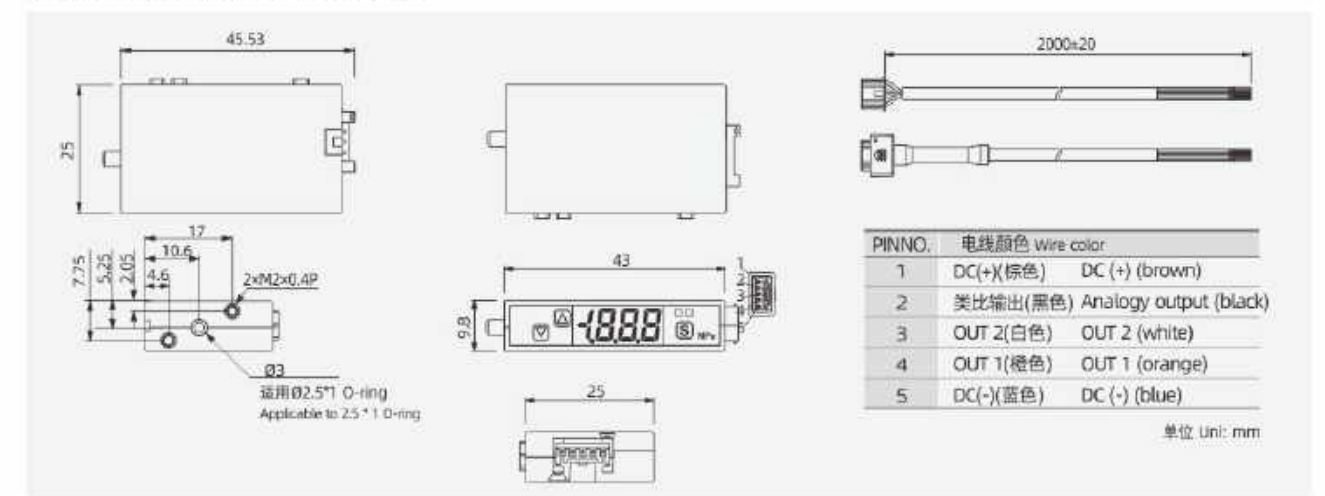
Line chart of the implementation time for each vacuum degree



数位显示型压力传感器 Digital display pressure sensor



外观尺寸 Appearance dimensions



基本设定模式 Basic setting mode

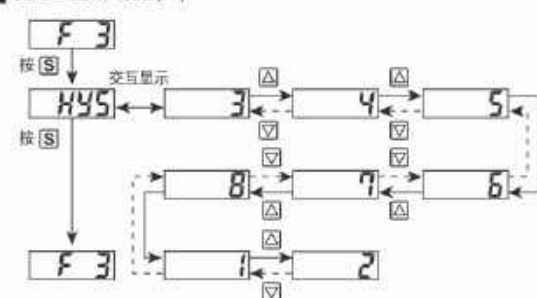
1 功能选择模式 Function selection mode



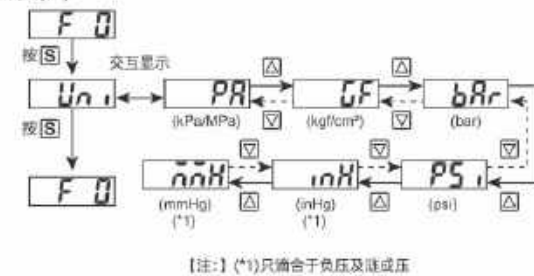
3 OUT1型态设定(F1)



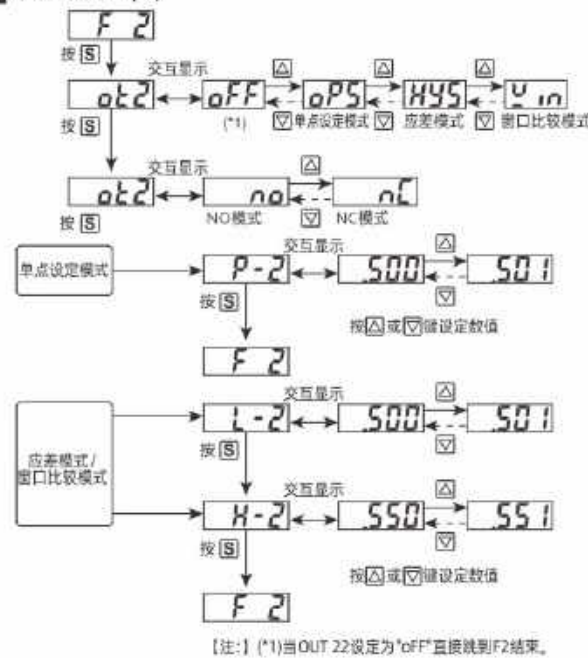
5 固定应差数值设定(F3)



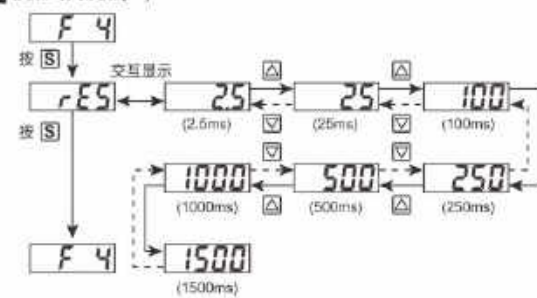
2 单位设定(F0)



4 OUT2型态设定(F2)

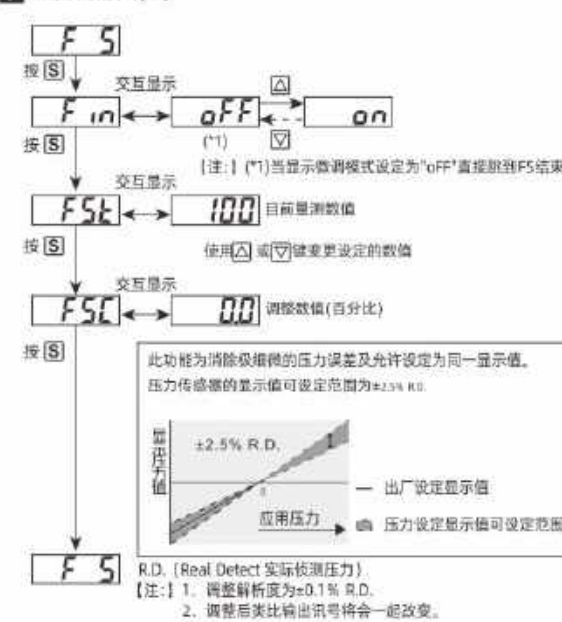


6 反应时间设定(F4)



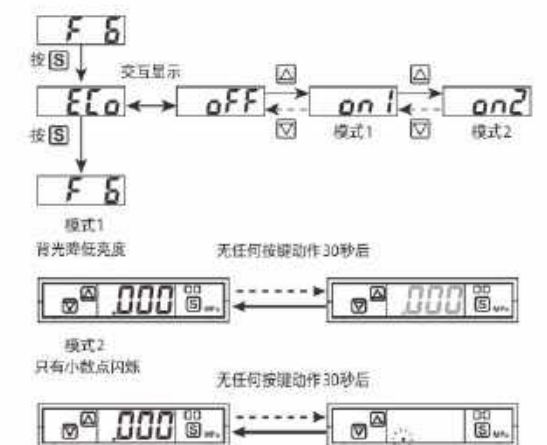
基本设定模式 Basic setting mode

7 显示微调模式(F5)



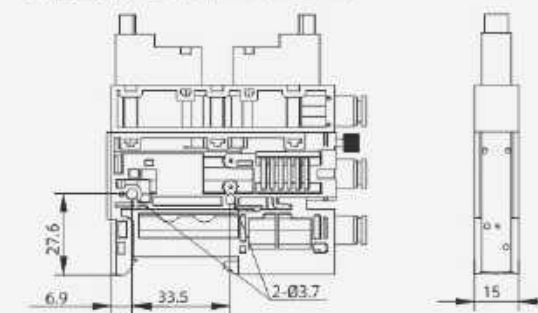
8 省电模式(F6)

- 当启动省电模式设定时，压力传感器在量测模式下，未按任何键30秒后，压力传感器会进入省电模式。
- 当压力传感器处于省电模式时，传感器动作指示灯可能会有不同步的现象，但不会影响传感器的动作。
- 当压力传感器处于省电模式时，按下任何键，压力传感器会自动回到一般量测模式。

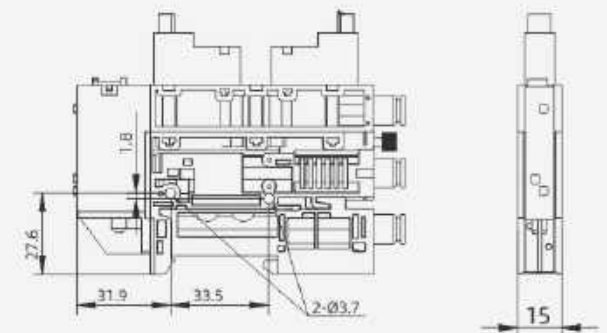


安装方式1 Installation method 1

- 单体直接挂载。
通过图示两个安装孔，使用M3螺丝将发生器直接安装在所需位置。
Install the generator directly in the desired position using M3 screws through the two mounting holes shown in the diagram.
单体型(无压力开关) Single type (without pressure switch):

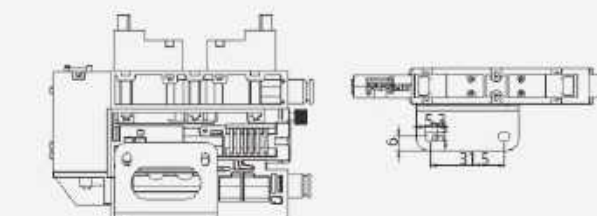


单体型 Monotype:



安装方式2 Installation method 2

- 支架安装 Bracket installation.
使用安装支架上的两个Ø3.4，使用M3螺丝将发生器直接安装在所需位置。
Using installation two Ø3.4 screws on the bracket, so that install the generator directly in the desired position using M3 screws.
单体型(带安装支架) Single body (with mounting bracket):



- 安装配件 Install accessories:
不锈钢折弯件 (如图) *1, 对应M3螺丝*2.
Stainless steel bending parts (as shown in the figure) *1, corresponding to M3 screws *2



VTN series

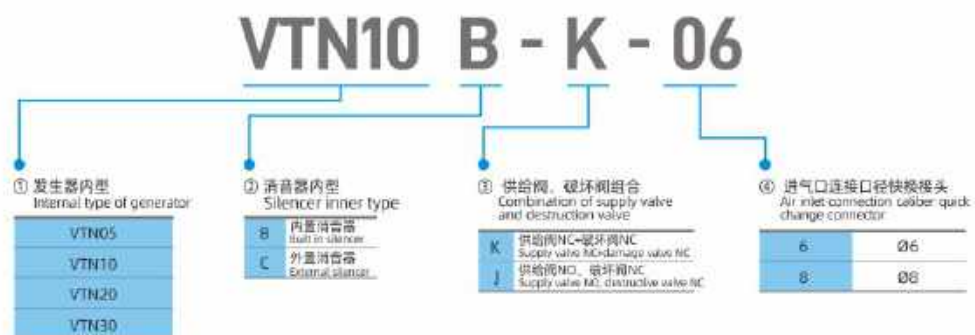
Vacuum generator-Multifunctional

真空发生器-多功能型



- 结构紧凑、体积轻巧、安装简便、易维护；
- 带电磁阀控制功能，真空反应迅速，性能稳定；
- 使用多级发生器产生真空，真空度高，真空流量大。
- Compact structure, lightweight, easy to install, and easy to maintain;
- Equipped with electromagnetic valve control function, quick vacuum response and stable performance;
- Using a multi-stage generator to generate vacuum, with high vacuum degree and large vacuum flow rate.

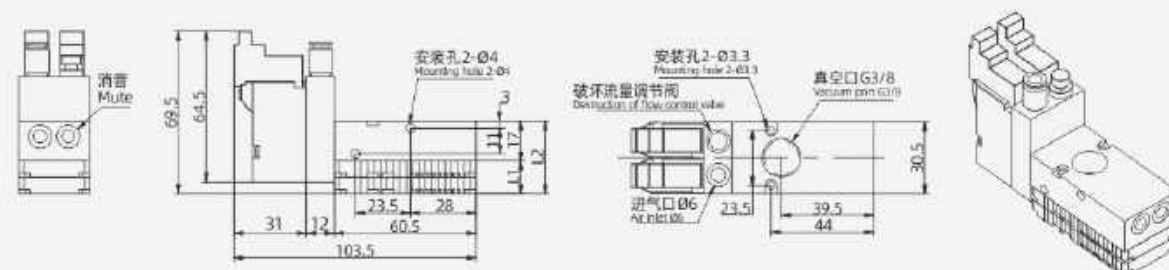
型号表示方式 Model representation



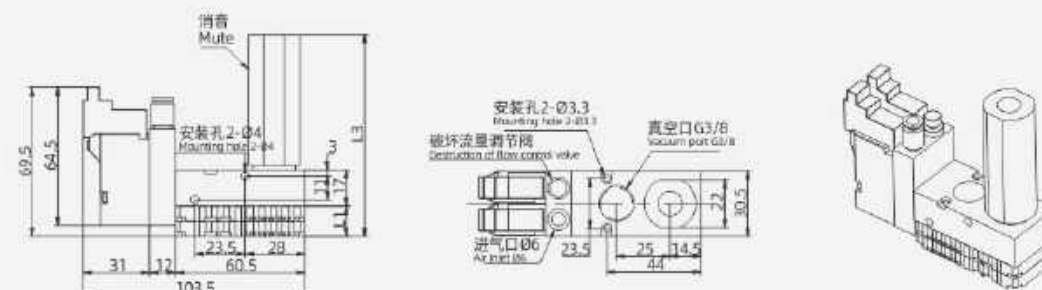
尺寸图表 Dimensional chart

VTN

VTN□-B-□-06(内置消音器 Built in silencer)

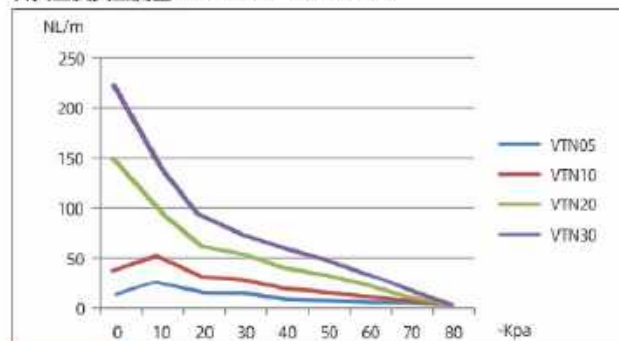


VTN□-C-□-06(外置消音器 External silencer)

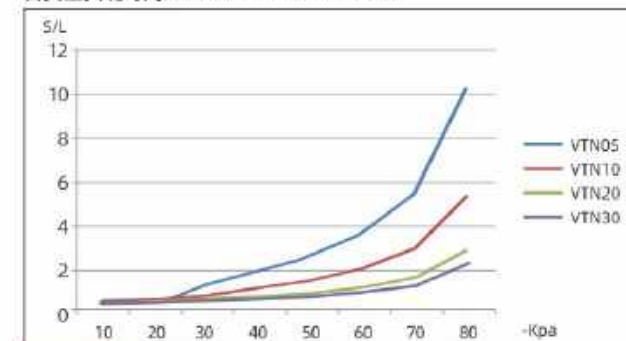


型号 Model	最大真空度 Maximum vacuum degree -kPa	最大真空流量 Maximum vacuum flow rate L/min	空气消耗量 Air consumption L/min	噪音 Noise dB(A)	最小软管内径 (2M以内)			L1	L2	L3
					压缩空气 Compressed air	真空 Vacuum	排气 Exhaust			
VTN05	85	37	15-21	50-65	> 2	> 5	> 8	7	24	87
VTN10		74	30-42	55-68	> 2	> 8	> 10	7	24	87
VTN20		149	60-84	60-68	> 4	> 10	> 12	14	31	94
VTN30		220	90-126	60-68	> 6	> 12	> 15	21	38	101

各真空度真空流量 Vacuum vacuum flow



各真空实现时间 Vacuum realization time



VTM series

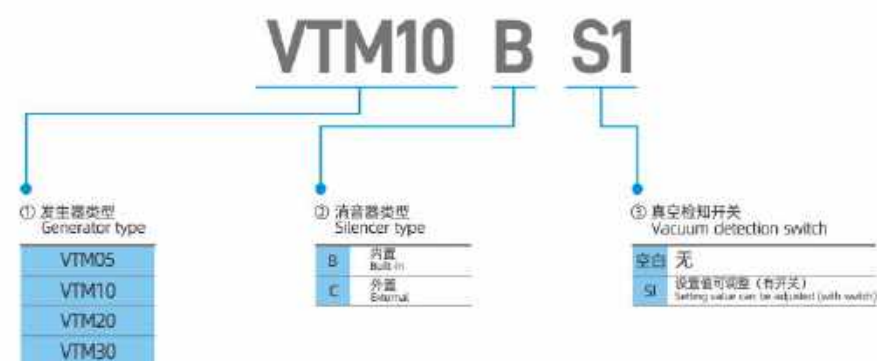
Vacuum generator - Large flow type

真空发生器-大流量型



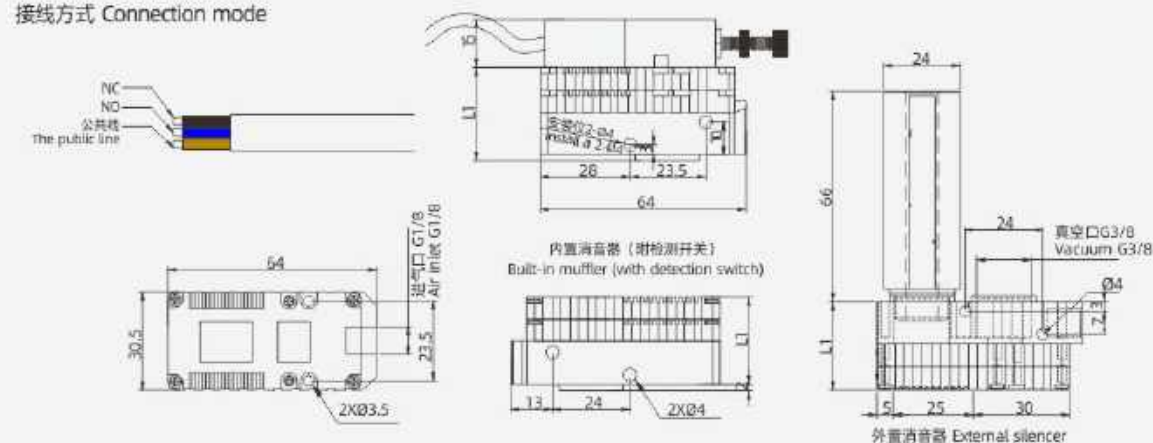
- 结构紧凑，体积轻巧，安装简便，可直接安装在吸盘上
- 使用多级发生器产生真空，可以提供较大真空流量
- 由高级塑胶制成，可以在大部分有害气体中使用
- 可选择氟橡胶和三元乙丙橡胶做密封材料，使其能在腐蚀性环境和酸性环境下使用
- Compact, lightweight and easy to install, it can be mounted directly on the suction cup
- Use a multi-stage generator to create a vacuum that provides a large vacuum flow
- Made of high-grade plastic, it can be used in most harmful gases
- Fluororubber and EPDM rubber can be selected as sealing materials to be used in corrosive and acidic environments.

型号表示方式 Model representation



尺寸图表 Dimensional chart

接线方式 Connection mode



产品参数 Product parameters

型号 Model	最大真空度 Maximum vacuum kPa	最大真空流量 Maximum vacuum flow L/min	空气消耗量 Air consumption L/min	噪音 Noise level dB(A)	重量 Weight(g)	最小软管内径 (2m以内) Min hose inner Ø (within 2mm)			L1	L2
						压缩空气 Air supply	真空 Vacuum	排气 Exhaust		
VTM05	89	37	15-21	50-65	30/42	>2	>5	>8	20.2	37.2
VTM10		74	30-42	55-68	32/44	>2	>8	>10	20.2	37.2
VTM20		149	60-84	60-68	41/53	>4	>10	>12	27.4	44.4
VTM30		220	90-126	60-68	60/72	>6	>12	>15	34.6	51.6

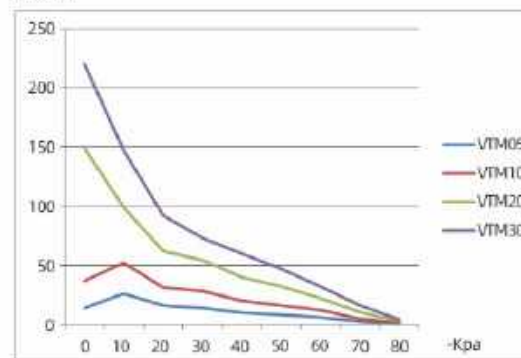
各真空度真空流量 Vacuum vacuum flow

型号 Model	-mmHg -kPa	0	75	150	225	300	375	450	525	600
		0	10	20	30	40	50	60	70	80
VTM05		37	26	16	14	10	8	6	2.4	0.66
VTM10		74	52	31	28	20	16	12	4.8	1.32
VTM20		149	99	62	54	40	32	22	10.5	2.7
VTM30		220	147	92	73	60	47	32	16	4.1

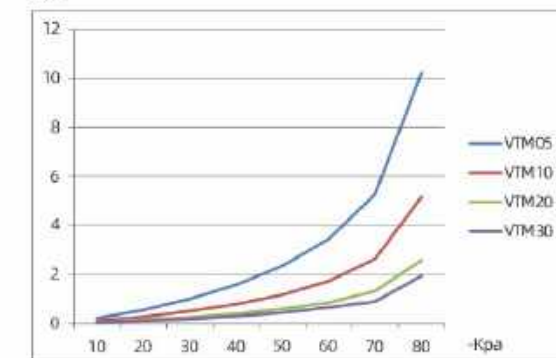
各真空实现时间 Vacuum realization time

型号 Model	-mmHg -kPa	75	150	225	300	375	450	525	600
		10	20	30	40	50	60	70	80
VTM05		0.218	0.056	1	1.576	2.356	3.44	5.27	10.216
VTM10		0.109	0.278	0.5	0.788	1.178	1.72	2.635	5.158
VTM20		0.054	0.139	0.25	0.394	0.589	0.86	1.317	2.579
VTM30		0.041	0.104	0.186	0.295	0.441	0.647	0.898	1.935

各真空度真空流量折线图 Vacuum vacuum flow the line chart



各真空实现时间折线图 Vacuum realization time the line chart



VTX series

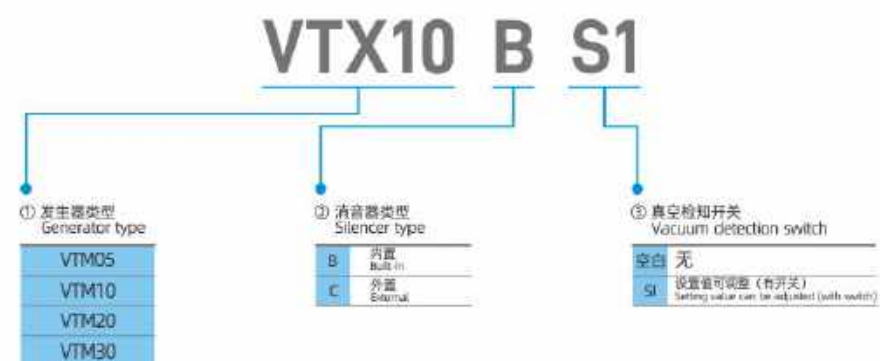
Vacuum generator - High vacuum type

真空发生器-高真空型



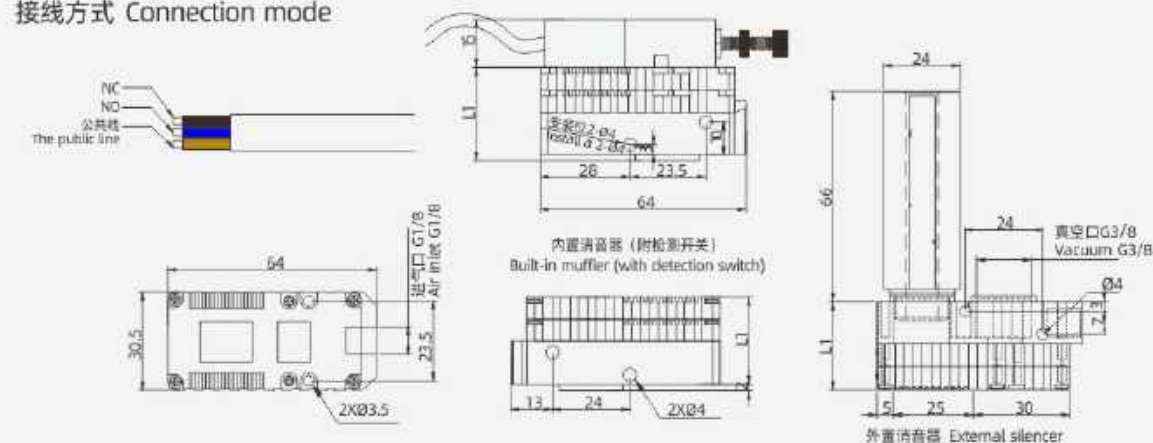
- 结构紧凑，体积轻巧，安装简便，可直接安装在吸盘上
- 使用多级发生器产生真空，可以提供较大真空流量
- 由高级塑胶制成，可以在大部分有害气体中使用
- 可选择氟橡胶和三元乙丙橡胶做密封材料，使其能在腐蚀性环境和酸性环境下使用
- Compact, lightweight and easy to install, it can be mounted directly on the suction cup
- Use a multi-stage generator to create a vacuum that provides a large vacuum flow
- Made of high-grade plastic, it can be used in most harmful gases
- Fluororubber and EPDM rubber can be selected as sealing materials to be used in corrosive and acidic environments.

型号表示方式 Model representation



尺寸图表 Dimensional chart

接线方式 Connection mode



产品参数 Product parameters

型号 Model	最大真空度 Maximum vacuum -kPa	最大真空流量 Maximum vacuum flow L/min	空气消耗量 Air consumption L/min	噪音 level dB(A)	重量 Weight(g)	最小软管内径 (2m以内) Min hose inner Ø (within 2mm)			L1	L2
						压缩空气 Air supply	真空 Vacuum	排气 Exhaust		
VTX05	92	32	21.6-24	50-65	30/42	>2	>5	>8	20.2	37.2
VTX10		62	43.2-48	55-68	32/44	>2	>8	>10	20.2	37.2
VTX20		124	86.4-96	60-68	41/53	>4	>10	>12	27.4	44.4
VTX30		185	129.6-144	60-68	60/72	>6	>12	>15	34.6	51.6

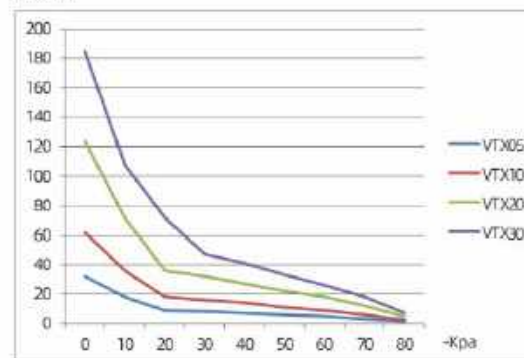
各真空度真空流量 Vacuum vacuum flow

型号 Model	-mmHg -kPa	真空度 Vacuum									
		0	75	150	225	300	375	450	525	600	
VTX05	32	18	9	8	7	6	5	3	1.2		
VTX10	62	36	18	16	14	11	9	6	2.4		
VTX20	124	72	36	32	27	22	18	12	4.8		
VTX30	185	108	72	47	41	33	26	18	7.2		

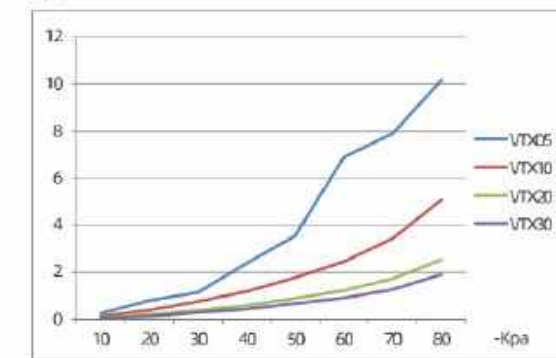
各真空实现时间 Vacuum realization time

型号 Model	-mmHg -kPa	真空实现时间 Vacuum realization time									
		75	150	225	300	375	450	525	600		
VTX05	0.258	0.796	1.156	2.4	3.56	7.91	6.896	10.16			
VTX10	0.129	0.398	0.758	1.2	1.78	2.455	3.445	5.08			
VTX20	0.064	0.199	0.379	0.6	0.89	1.227	1.722	2.54			
VTX30	0.048	0.149	0.284	0.44	0.673	0.917	1.287	1.906			

各真空度真空流量折线图 Vacuum vacuum flow the line chart



各真空实现时间折线图 Vacuum realization time the line chart



BCV series

Vacuum generator-Multifunctional

真空发生器-多功能型



- 多功能型集成发生器，一体化设计，带节能保压功能，可破真空；
- 大流量，单片发生器流量超300ml/min。
- Multi functional integrated generator, integrated design, with energy-saving and pressure maintaining function, capable of breaking vacuum;
- High flow rate, single chip generator flow rate exceeding 300ml/min.

型号表示方式 Model representation

BCV - D - V X 2 K - M

① 发生器规格
Generator specifications

- D 标准型
Standard type
- E 分流型
Split type

② 真空压力检测规格
Vacuum pressure detection specifications

- 无位号 真空检测口(G1/8)
- G 机械指针压力表
Mechanical pointer pressure gauge
- V 数字压力表
Digital pressure gauge

③ 安装板数
Number of installation boards

- 无位号 单片发生器
Single-chip generator
- 2 双片发生器
Dual-chip generator
- 3 ...
- ...

④ 供给阀、破环阀组合
Combination of supply valve and destruction valve

- K 供给阀NC-破环阀NC
Supply valve NC, destructive valve NC
- J 供给阀ND、破环阀NC
Supply valve ND, destructive valve NC

⑤ 安装方式(仅多个使用时)
Installation method (only for multiple uses)

- 无位号 无
None
- M 汇流安装板
Confluent installation plate

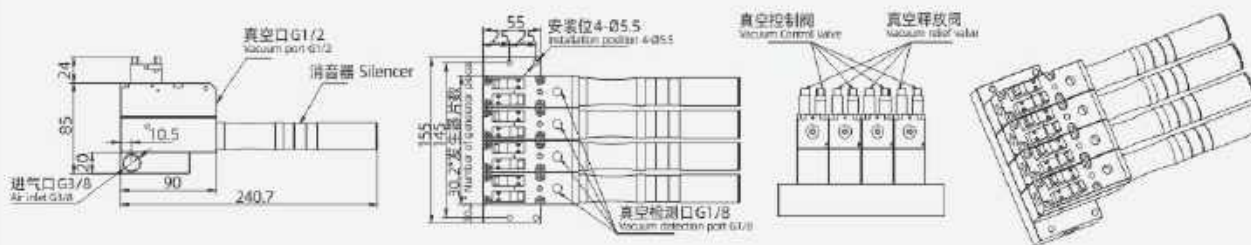
尺寸图表 Dimensional chart

BCV

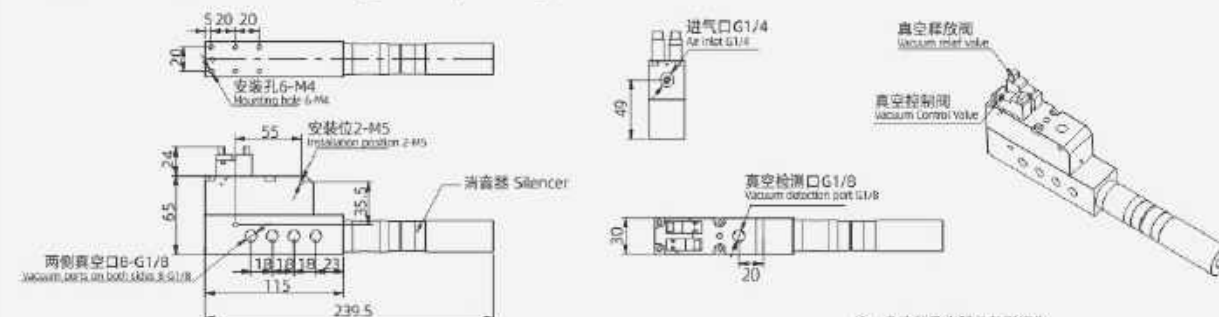
标准型单片发生器尺寸图 Dimensional diagram of standard single-chip generator:



标准型并联发生器尺寸图 Dimensional diagram of standard parallel generator:

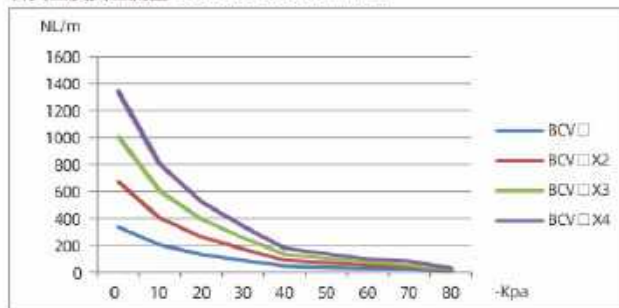


分流型发生器尺寸图 Dimensional diagram of split flow generator:



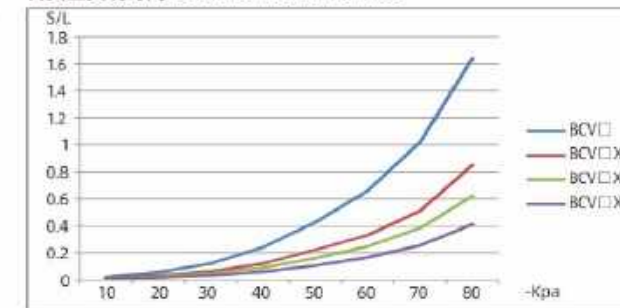
型号 Model	进气口 Air intake	真空孔 Vacuum hole	最大真空度 Maximum vacuum degree -kpa	最大真空流量 Maximum vacuum flow rate NL/m	空气消耗量 Air consumption N/m	重量 Weight g
BCV□	G1/4	G1/2	90	335	95	580
BCV□X2	G3/8			670	190	1710
BCV□X3				1005	285	2290
BCV□X4				1340	380	2870

各真空度真空流量 Vacuum vacuum flow



-mmHg -PA	0	75	150	225	300	375	450	525	600
型号 Model	0	10	20	30	40	50	60	70	80
BCV□	335	200	130	85	44	34	24	23	8
BCV□X2	670	400	260	170	88	68	48	42	15
BCV□X3	1005	600	390	255	132	102	72	51	20
BCV□X4	1340	800	520	340	176	136	96	80	28

各真空实现时间 Vacuum realization time



-mmHg -PA	75	150	225	300	375	450	525	600
型号 Model	10	20	30	40	50	60	70	80
BCV□	0.02	0.056	0.12	0.24	0.425	0.66	1.02	1.64
BCV□X2	0.013	0.032	0.062	0.12	0.221	0.33	0.51	0.85
BCV□X3	0.01	0.024	0.047	0.09	0.159	0.248	0.383	0.62
BCV□X4	0.007	0.016	0.031	0.06	0.106	0.165	0.255	0.41

VG series

Vacuum generator - Energy saving type

真空发生器-节能型



- 通过机械节能的方式，当真空度达到设定值后供气停止；
 - 适应多种工况，特别适用于泄流量少的工作抓取；
 - 设有吹气阀可快速释放物体，在电源故障等意外情况下依旧能够保持真空，提高安全性；
 - 节能功能由发生器机械装置自身实现，不需要额外增加电子控制；
 - 在长时间吸附状态下，节省气源高达99%以上。
- By using mechanical energy-saving methods, the gas supply stops when the vacuum degree reaches the set value;
 - Adapted to various working conditions, especially suitable for gripping workpieces with low discharge flow rate;
 - Equipped with a blowing valve to quickly release objects, it can still maintain vacuum in the event of power failure or other unexpected situations, improving safety;
 - The energy-saving function is achieved by the mechanical device of the generator itself, without the need for additional electronic control;
 - Under long-term adsorption, the gas source can be saved up to 99% or more.

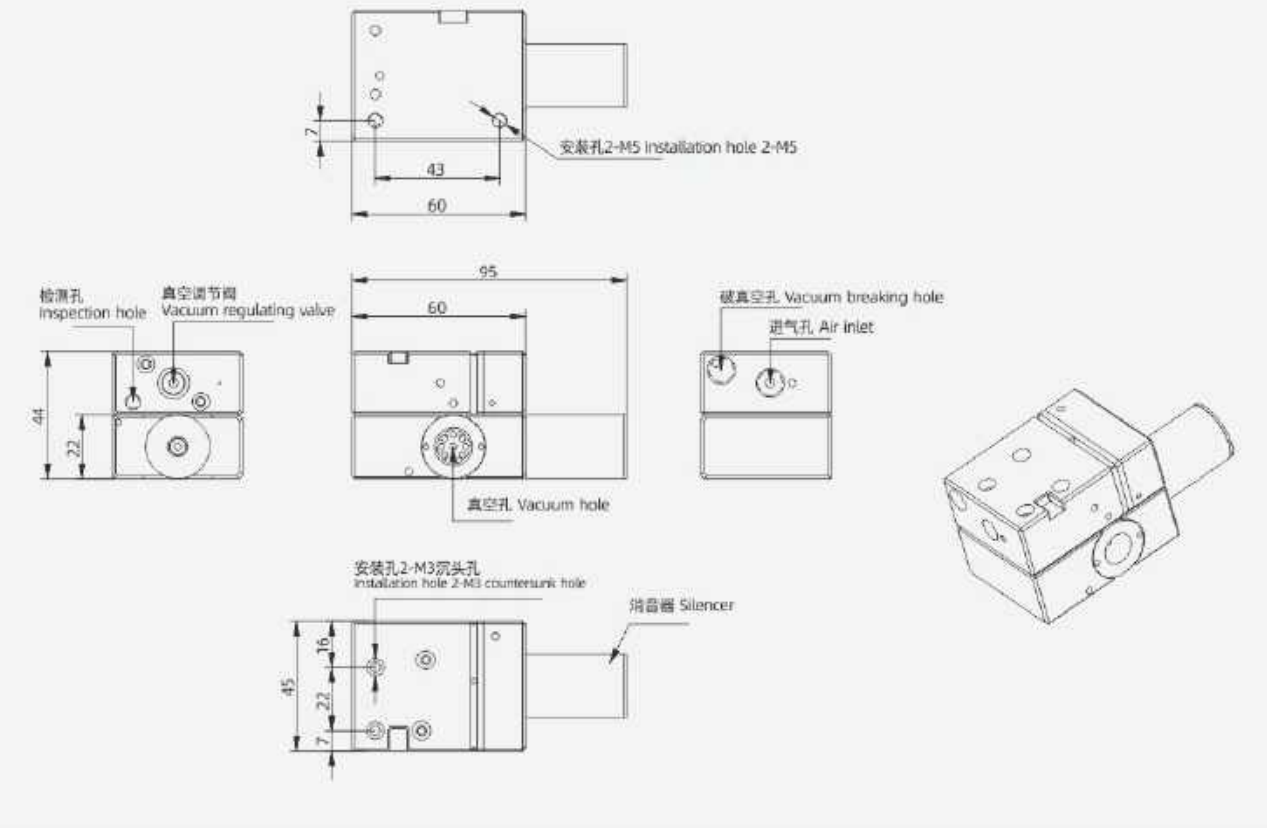
型号表示方式 Model representation

VG 12

- ① 发生器型类
Generator type type
- VG 节能型
Energy saving type

尺寸图表 Dimensional chart

VG



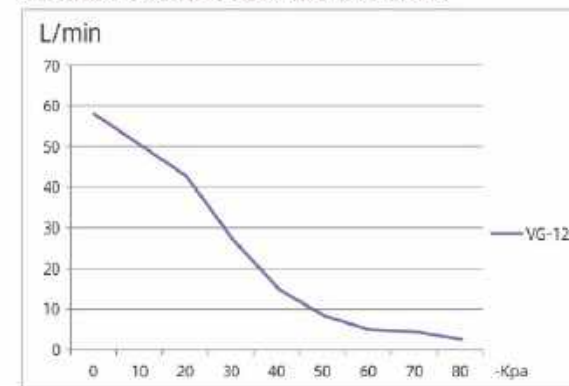
不同真空度 (-Kpa) 的真空流量 (L/min) Vacuum flow rate (L/min) at different vacuum degrees (- Kpa)

型号 Model	供给气压 Supply air pressure bar	空气消耗量 Air consumption L/min	0	10	20	30	40	50	60	70	80
VG-12	5	68	58	50	43	27	15	8.3	5.2	4.3	2.3

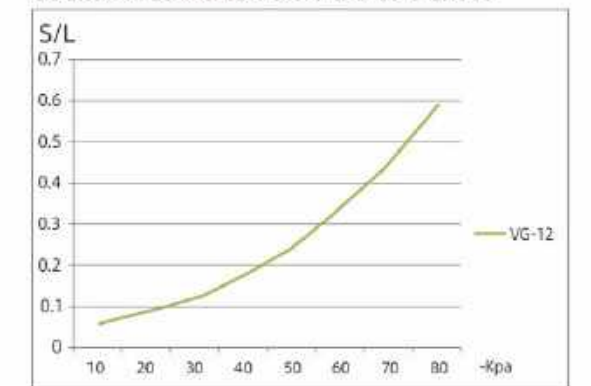
不同真空度 (-Kpa) 的真空抽气时间 (S/L) Vacuum pumping time (S/L) for different vacuum degrees (- Kpa)

型号 Model	供给气压 Supply air pressure bar	最大真空流量 Maximum vacuum flow rate L/min	10	20	30	40	50	60	70	80
VG-12	5	88	0.06	0.09	0.12	0.18	0.25	0.35	0.46	0.6

各真空度真空流量折线图 Vacuum vacuum flow the line chart



各真空实现时间折线图 Vacuum realization time the line chart



VTML series

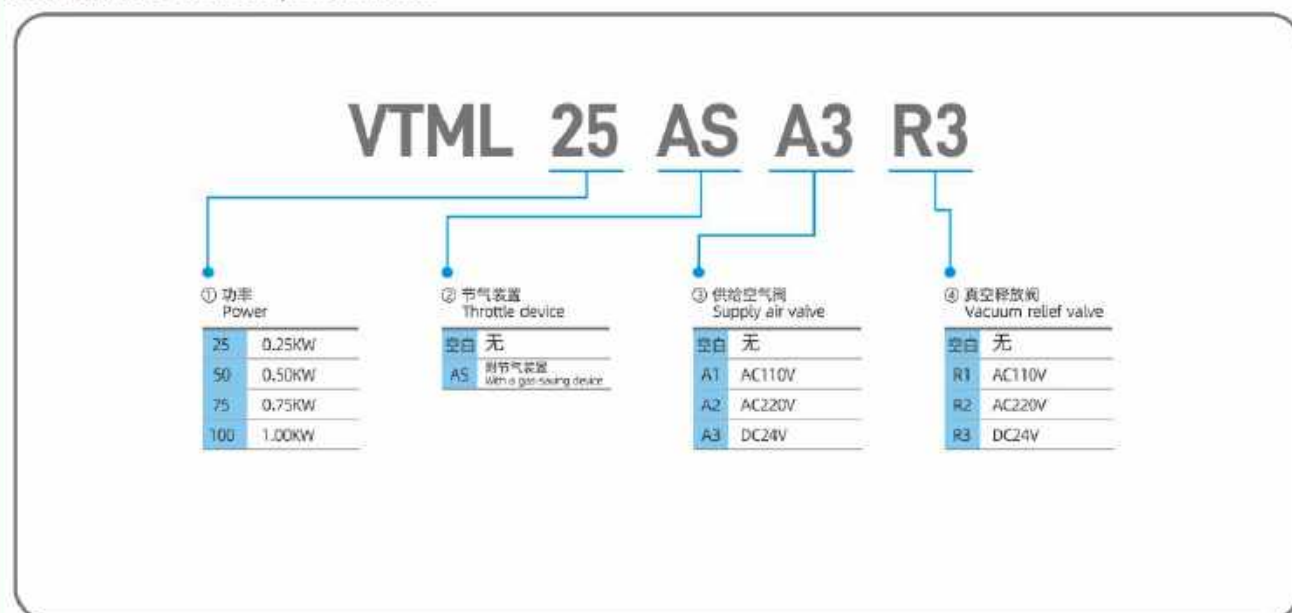
Vacuum generator - High vacuum type

真空发生器-高真空型

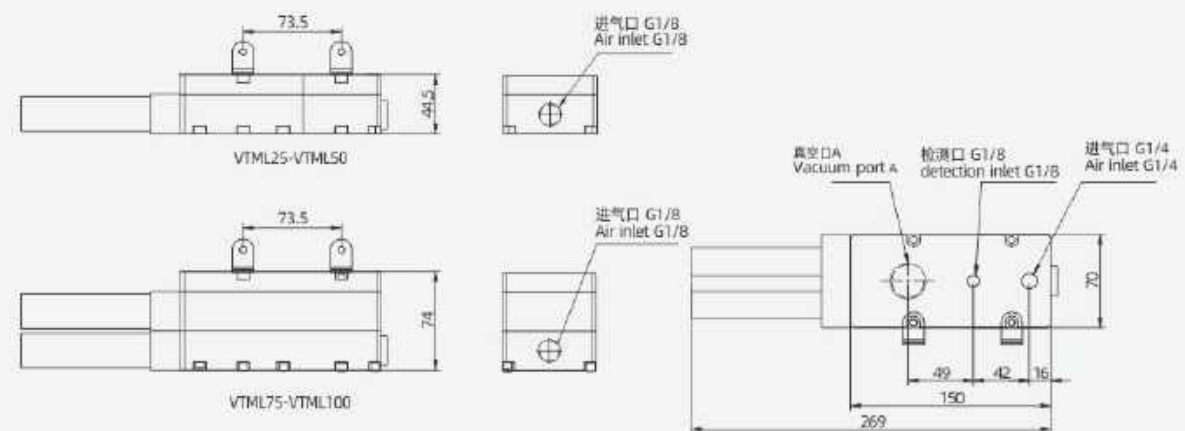


- 在流量与真空度同时高时低的状况下，压缩空气也能抽成大量的真空体积。
- 为了最大限度的节约能源，可以在这种真空发生器上安装Booka空气保压阀。
- 可选择氟橡胶和三元乙丙橡胶做密封材料，使其能在腐蚀性环境和酸性环境下使用。
- Compressed air can also be pumped into a large vacuum volume when the flow rate and vacuum are high and low.
- To maximize energy savings, a Booka air pressure relief valve can be installed on this vacuum generator.
- Fluororubber and EPDM rubber can be selected as sealing materials to be used in corrosive and acidic environments.

型号表示方式 Model representation



尺寸图表 Dimensional chart



产品参数 Product parameters

型号 Model	真空口 Vacuum port A	最大真空度 Maximum vacuum -kPa	最大真空流量 Maximum vacuum flow L/min	空气消耗量 Air consumption L/min	供气压力 Supply pressure bar	供气类别 Gas supply category	工作温度 Working temperature °C	噪音 Noise level dBA
VTML25	G3/4	-91 (-682.5mmHg)	365	120	3-6 最大 maximum 7	干燥的压缩空气 dry compressed air	-20 至 +80	50-65
VTML50			622	240				
VTML75	841		360					
VTML100	1370		480					

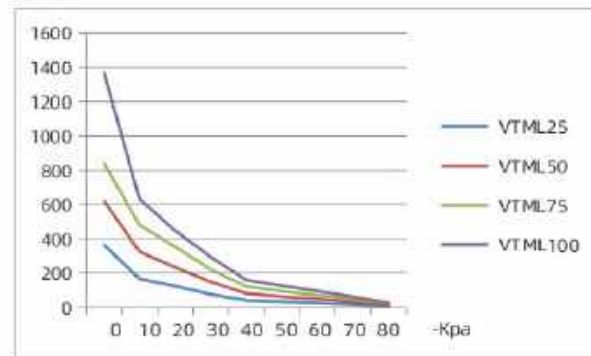
各真空度真空流量 Vacuum vacuum flow

型号 Model	-mmHg -kPa	0	75	150	225	300	375	450	525	600
VTML25		365	169	124	76	43	33	25	17	7
VTML50		622	327	236	149	83	65	49	33	14
VTML75		841	481	354	221	122	97	73	49	21
VTML100		1370	634	449	293	161	129	96	64	27

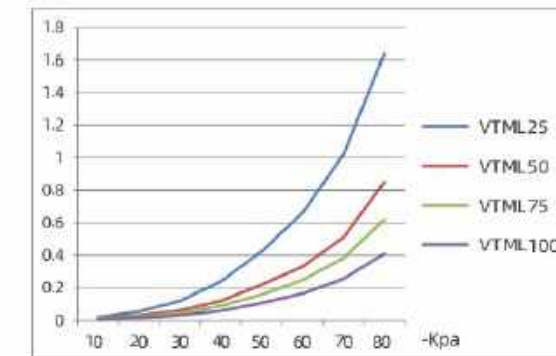
各真空实现时间 Vacuum realization time

型号 Model	-mmHg -kPa	75	150	225	300	375	450	525	600
VTML25	10	0.02	0.056	0.12	0.24	0.425	0.66	1.02	1.64
VTML50	10	0.013	0.032	0.062	0.12	0.221	0.33	0.51	0.85
VTML75	10	0.01	0.024	0.047	0.09	0.159	0.248	0.383	0.62
VTML100	10	0.007	0.016	0.031	0.06	0.106	0.165	0.255	0.41

各真空度真空流量折线图 Vacuum vacuum flow the line chart NL/m



各真空实现时间折线图 Vacuum realization time the line chart S/L



VTA series

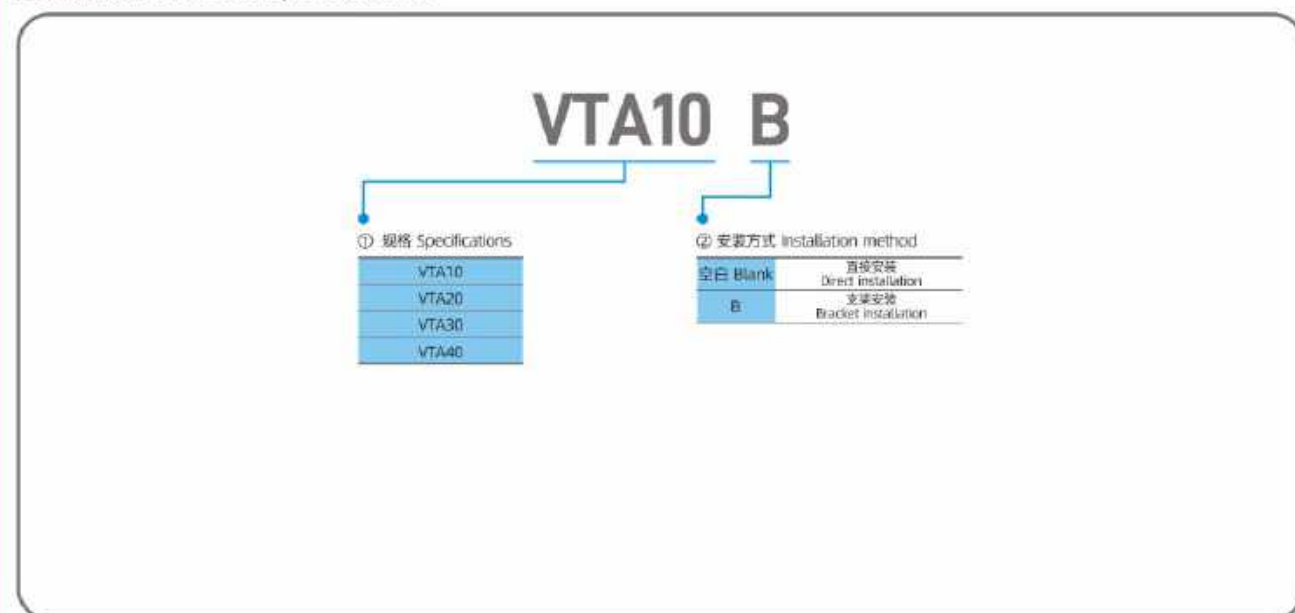
Vacuum generator-Conveying generator

真空发生器-输送型发生器



- 大口径通道型真空结构使得颗粒及小碎片可以无碍通过;
- 适用于在大灰尘多碎片的环境提供真空源;
- 大流量型发生器, 可产生接近三倍空气消耗量的真空流量, 适用于需要高真空流量的环境。
- The large-diameter channel type vacuum structure allows particles and small fragments to pass unimpeded;
- Suitable for providing a vacuum source in environments with large dust and debris;
- A high flow rate generator that can generate vacuum flow rates close to three times the air consumption, suitable for environments that require high vacuum flow rates.

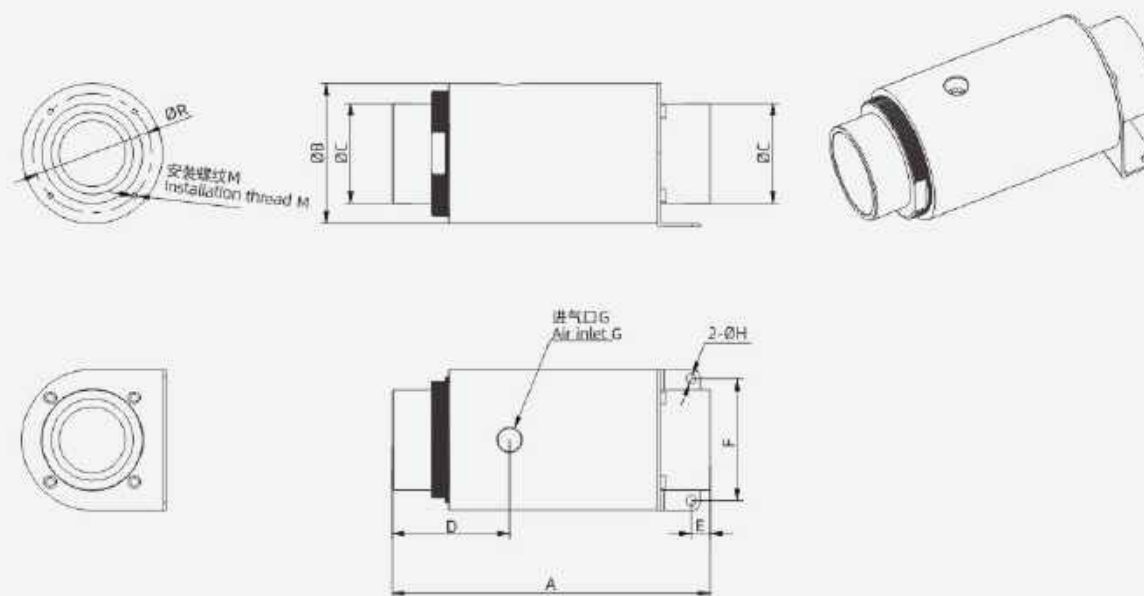
型号表示方式 Model representation



尺寸图表 Dimensional chart

VTA

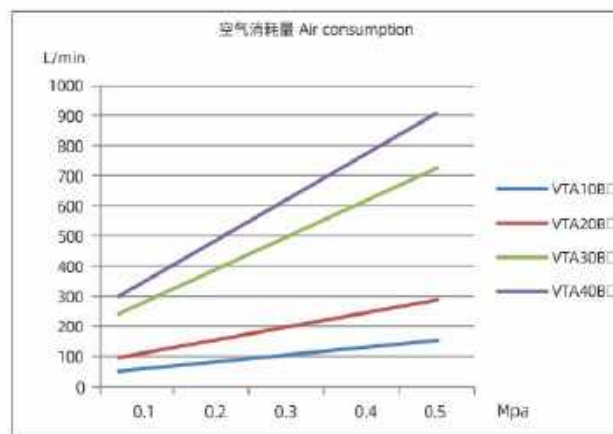
无托架安装孔, Without bracket mounting holes:



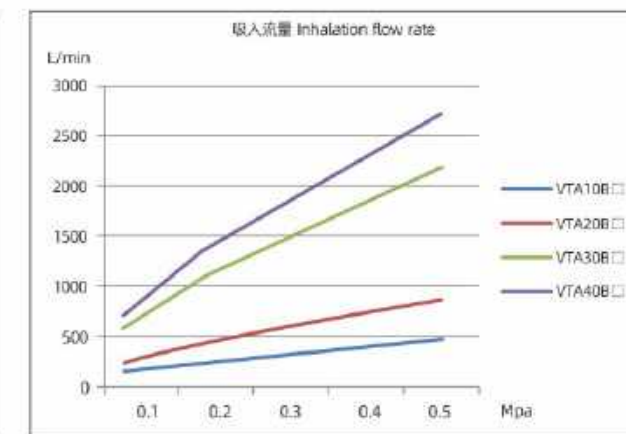
型号 Model	A	B	C	D	E	F	H	G	R	M
VTA10□□	73	34	19	31	7.2	27	4.5	G1/8	28	M3*0.5
VTA20□□	119.5	55	32	48	12.5	48		G1/4	44	M4*0.7
VTA30□□	158	70	50	60.5	16.5	60	G1/4	59		
VTA40□□	203	90	64	74.5	12.5	78	G3/8	76		

型号 Model	供气压力 Air supply pressure Mpa	最大真空度 Maximum vacuum degree -kpa	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate NL/m	通道口直径 Channel diameter mm	进气口螺纹 Air inlet thread	重量 Weight g
VTA10□□	0.4-0.6	13	150	450	13	G1/8	110
VTA20□□			285	655	21.6	G1/4	430
VTA30□□			720	2160	30	G1/4	970
VTA40□□			900	2700	42	G3/8	2000

各压力下, 空气消耗量曲线图
Air consumption curve under various pressures



各压力下, 真空流量曲线图
Vacuum flow rate curve under various pressures



VY series

Vacuum generator-Vacuum breaking

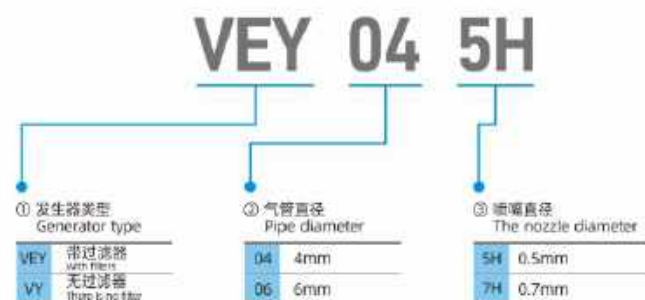
真空发生器-带真空破坏功能



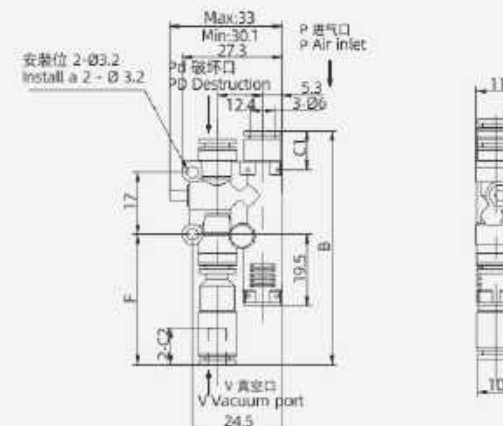
- 与带电磁阀的常规真空发生器相比，此产品更加着重与性价比；
- 在弹射装置停止进气的时候产生了破坏流程，确保工作释放；
- 与常规的独立式弹射装置相比，可通过加载截止阀实现高速循环；
- 此产品尺寸较小，分量较轻，使其能够安装在弹射装置真空电路的前端；
- 破坏机制可与弹射装置连为一套，通过向装置打开关闭供气，可实现设备由真空发生向空气释放的完全转变。

- Compared with the conventional vacuum generator with charged magnetic valve, this product pays more attention to and cost performance;
- When the air inlet of the ejection device stops, the destruction process is generated to ensure the release of work;
- Compared with the conventional independent ejection device, the high-speed cycle can be realized by loading the stop valve;
- The product is small in size and light in weight, so that it can be installed at the end of the vacuum circuit of the ejection device;
- The destruction mechanism can be connected with the ejection device. By opening and closing the air supply to the device, the complete transformation of the equipment from vacuum to air release can be realized.

型号表示方式 Model representation



尺寸图表 Dimensional chart



型号 Model	A	B	C	D
VY04	35.5	4	12.5	13.5
VY06	37	6	14	13.5

产品参数 Product parameters

型号 Model	管径 Pipe diameter (mm)	喷嘴直径 Nozzle diameter	B	F	C1	C2	额定压力 Rated pressure (Mpa)	极限真空度 Limit vacuum (Kpa)	消耗流量 Consumption flow (L/min)	破坏供气端口尺寸 Destroy the size of the air supply port (mm)	端口位置 Port location	真空特性 Vacuum characteristics	重量 Weight (g)
VY04	Ø4	0.5	59.7	34.1	10.9	11	0.7	90	7	11.5	连接端口两侧 Both sides of the connection port	高真空中流量型 High true air flow type	20.5
		0.7						92	12.5				
VY06	Ø6	0.5	62.9	34.4	11.7	11.6	0.7	90	7	11.5			21.5
		0.7						92	12.5				

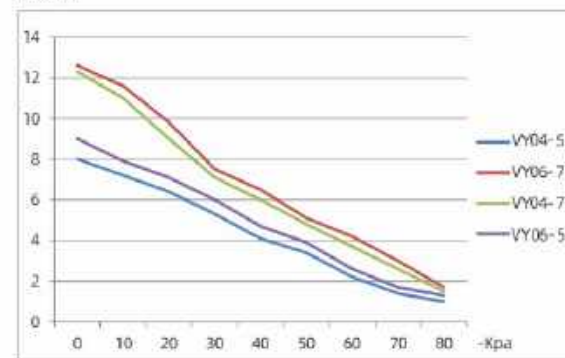
各真空度真空流量 Vacuum vacuum flow

型号 Model	供给气压 Supply air pressure (bar)	0	10	20	30	40	50	60	70	80
VY04-5F	5.0	8	7.2	6.4	5.3	4.1	3.4	2.2	1.4	1
VY04-7F		12.3	11	9	7.1	6	4.8	3.7	2.6	1.5
VY06-5F		9	7.9	7.1	6	4.7	3.9	2.6	1.7	1.3
VY06-7F		12.6	11.6	9.8	7.5	6.5	5.1	4.2	3	1.7

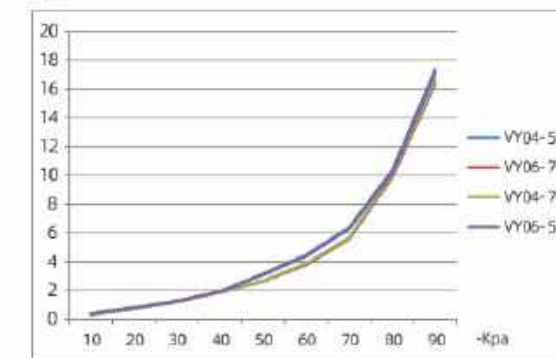
各真空实现时间 Vacuum realization time

型号 Model	供给气压 Supply air pressure (bar)	10	20	30	40	50	60	70	80	90
VY04-5F	5.0	0.42	0.84	1.31	1.96	3.18	4.5	6.4	10.4	17.4
VY04-7F		0.35	0.76	1.28	1.92	2.7	3.9	5.7	10.1	16.6
VY06-5F		0.4	0.81	1.28	1.93	3.11	4.4	6.3	10.2	17.1
VY06-7F		0.33	0.74	1.25	1.89	2.66	3.8	5.6	9.9	16.4

各真空度真空流量折线图 Vacuum vacuum flow the line chart NL/m



各真空实现时间折线图 Vacuum realization time the line chart S/L



VZH series

Vacuum generator-light

真空发生器-轻型



- 接口设计快插式，连接方便，配置范围大；
- 体积小，重量轻，成本低，易维护，内置消音，噪音小；
- 多种安装方式，带有安装孔位，可单独或多个搭配使用。
- The interface design is fast and easy to connect, with a wide range of configurations;
- Small size, light weight, low cost, easy maintenance, built-in noise reduction, and low noise;
- Multiple installation methods, with installation holes, can be used alone or in combination.

型号表示方式 Model representation

VZH 07 D × 4 S - 06 - 06 - 06 - T - E

① 发生器规格
Generator specifications

VZH 真空发生器
Vacuum generator

② 喷嘴口径
Nozzle diameter

07	Ø0.7
10	Ø1.0
15	Ø1.5
20	Ø2.0

③ 发生器类型
Generator type

D 管式(外置消音器)
Tubular (external muffler)

B 管式(内置消音器)
Box type (with built-in silencer)

④ 安装板数
Number of installation boards

1	单片发生器 Microchip generator
2	双片发生器 Dual chip generator
3	-
-	-

⑤ 到达真空压力
Reaching vacuum pressure

S	-90kPa	VZH07-20
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⑥ 连接口径(SUP/VAC/EXH)快换接头
Connection caliber (SUP/VAC/EXH) quick change connector

型号 Model	进气口 Model	真空口 Model	排气 Model
VZH07D	Ø6	Ø6	Ø6
VZH07B	Ø6	Ø6	-
VZH10D	Ø6	Ø6	Ø8
VZH10B	Ø6	Ø6	-
VZH15D	Ø8	Ø10	Ø10
VZH15B	Ø8	Ø10	-
VZH20D	Ø10	Ø12	Ø12
VZH20B	Ø10	Ø12	-

⑦ 安装支架
Bracket

无记号 不带支架
Without tracer

T 支架安装
Bracket installation

D 管架安装
DIN-Rail Mounting

⑧ 消音方式(仅限管式发生器)
Silencing method (limited to tubular generators only)

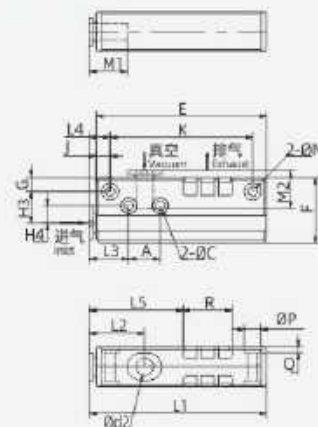
无记号 不带消音器
Without silencer

E 带外置消音器
With external muffler

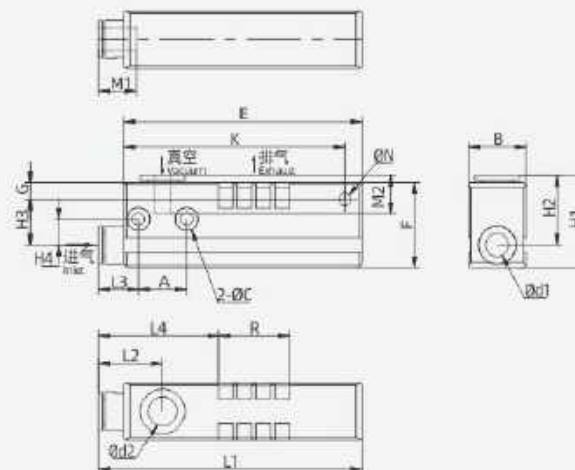
尺寸图表 Dimensional chart

VZH

VZH07-10BS-□-□



VZH15~20BS-□-□

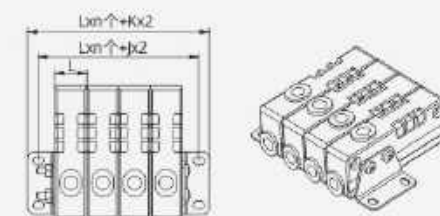


型号 Model	d1	d2	M1	M2	L1	L2	L3	L4	L5	H1	H2	H3	H4	A	B	C	E	F	G	J	K	N	P	Q	R
VZH07B	6	6	15.2	15.2	61.2	21.2	15.7	9.2	34.9	20.2	27.2	11	6	11	14	3.2	57	23	5	5	47	3.2	5.8	2	15
VZH10B					64.2				35.8								60				50				15.2
VZH15B	B	10	16.6	18.6	94.7	24.7	16.2	44.4	-	34.4	27.3	15.9	9	17	20	4.3	83.5	30	6	-	77.4	4.2	-	-	25
VZH20B	10	12	18.6	20.5	135.4	31.5	20.5	39.3	-	40.9	29.9	17	10	22	22	4.3	121.5	35	7	-	114.4	-	-	-	27

VZH07~20BS-□-□-T

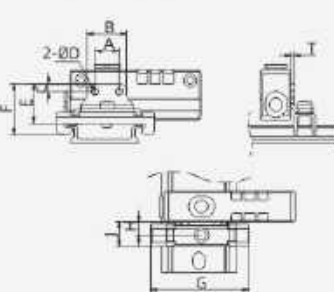


VZH07~20BS-□-□-D

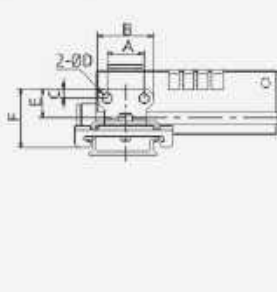


型号 Model	A	B	C	D	E	F	G	H	J	K	L	T
VZH07B	11	14.8	18.3	3.4	27.5	19.5	3.4	4.9	7.3	12	14	1
VZH10B												
VZH15B	17	19.6	24.6	4.5	38	28	4.5	6.5	9.5	15.5	20	1.2
VZH20B	22	24.8	29.8		43	33					22	1.4

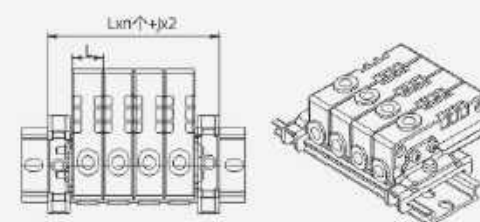
VZH07~10BS-□-□-D



VZH15~20BS-□-□-D



VZH07~20BS-□-□-D



型号 Model	A	B	C	D	E	F	G	H	J	L	T
VZH07B	11	18	3.5	3.4	18.2	23.2				14	
VZH10B							45	6.2	11.2	20	1.6
VZH15B	17	25.8	4.4	4.5	22	27				22	
VZH20B	22	30.8	4.4	4.5	27.2	32.2					

VAC series

Vacuum generator-Split quick type

真空发生器-分体式快速型



- 快速释放真空，运行周期短；
- 尺寸小，重量轻，噪音低；
- 可直接安装吸盘；
- 主体塑料材质。
- Quick release of vacuum, short operating cycle;
- Small size, light weight, and low noise;
- Can directly install suction cups;
- The main body is made of plastic material.

型号表示方式 Model representation

VAC - 10 - T1

① 喷嘴口径
Nozzle diameter

10 Ø1.0

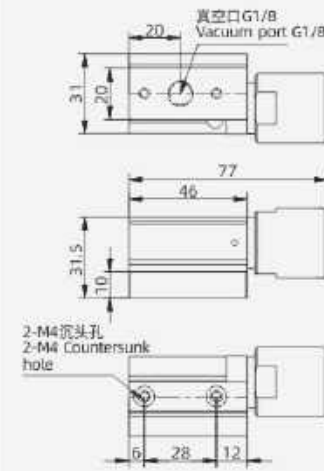
② 安装方式
Installation method

无安装方式
Standard version
T1 安装方式 I
Installation method I

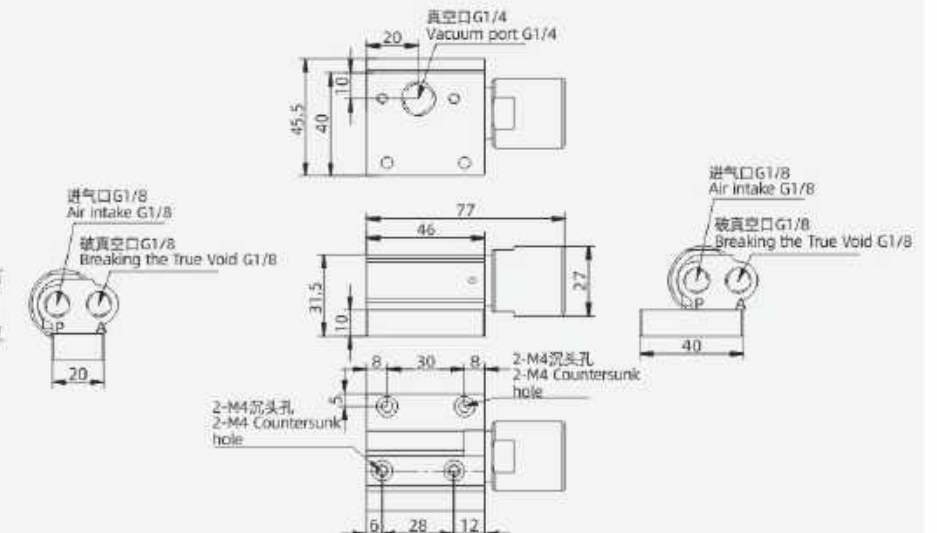
尺寸图表 Dimensional chart

VAC

VAC-10

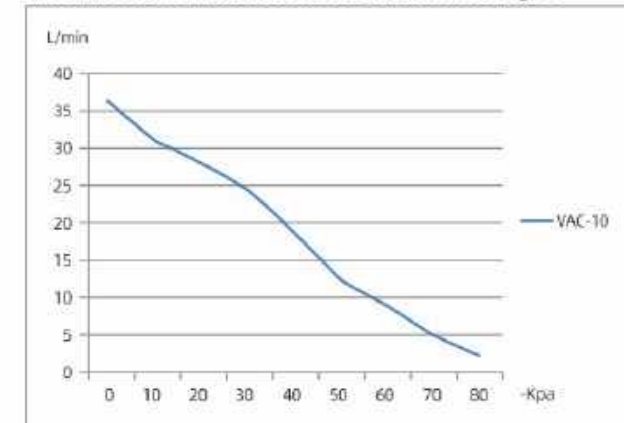


VAC-10-T1



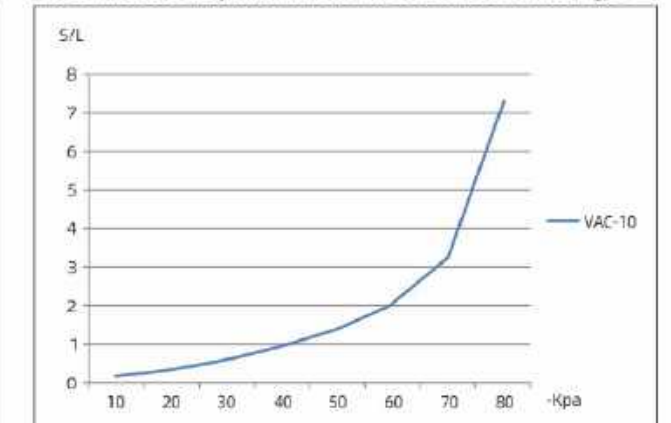
型号 Model	供气压力 Air supply pressure bar	最大真空度 Maximum vacuum degree -kPa	最大真空流量 Maximum vacuum flow rate L/min	空气消耗量 Air consumption L/min
VAC-10	4.5	85	36	62

各真空度真空流量折线图
Line chart of vacuum flow rate for each vacuum degree



型号 Model	供气压力 Air supply pressure bar	空气消耗量 Air consumption L/min	0	10	20	30	40	50	60	70	80
VAC-10	4.5	62	36	31	28	24.5	19	12.5	9	5	2.5

各真空度实现时间折线图
Line chart of the implementation time for each vacuum degree



型号 Model	供气压力 Air supply pressure bar	真空度 Vacuum degree -kPa	10	20	30	40	50	60	70	80
VAC-10	4.5	36	0.15	0.33	0.6	0.98	1.4	2.05	3.32	7.35

VBH series

Vacuum generator-Mini

真空发生器-迷你型



- 方形真空发生器快速接头类型;
- 内置消音, 噪音低。
- Type of quick connector for square vacuum generator;
- Built in noise reduction, low noise.

型号表示方式 Model representation

VBH 07 - 6P

① 喷嘴直径 Nozzle Diameter

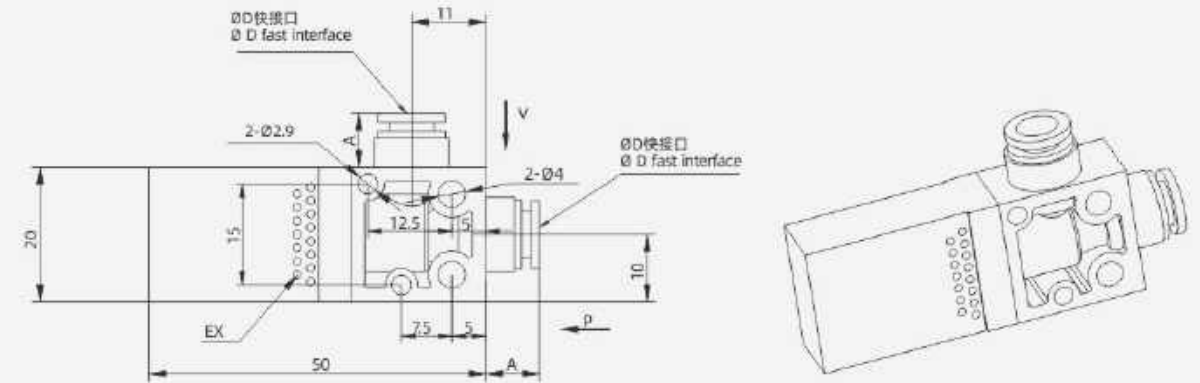
代码 Code	直径 Diameter
05	Ø0.5
07	Ø0.7
10	Ø1.0

② 气管直径 Tracheal diameter

代码 Code	直径 Diameter
4P	Ø4
6P	Ø6

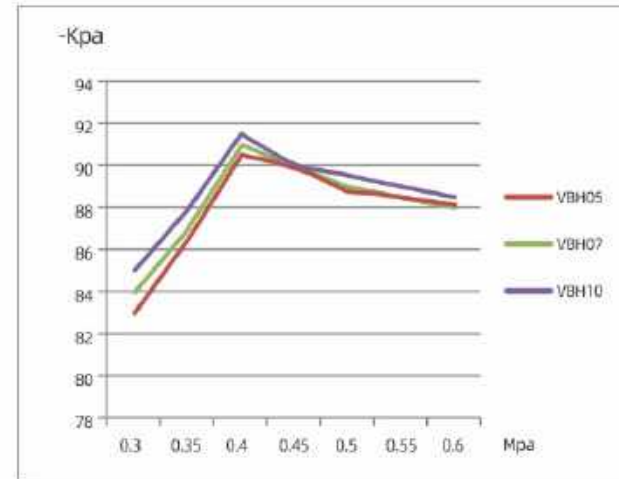
尺寸图表 Dimensional chart

VBH



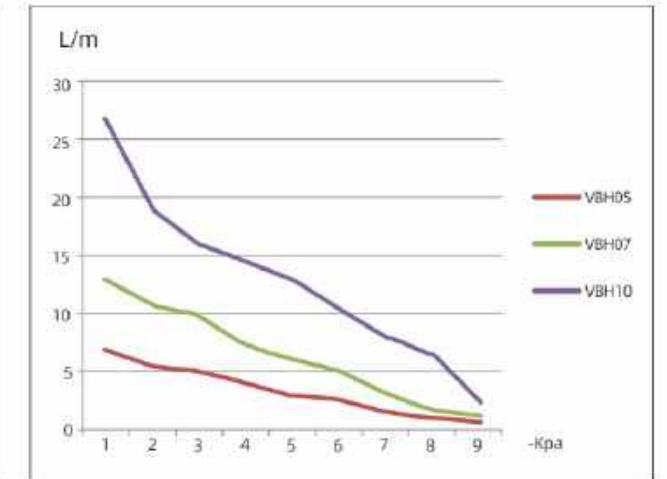
型号 Model	A	ØD	最大真空度 Maximum vacuum degree -kpa	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min
VBH05-4P	8	4	90	11	7
VBH05-6P	8	6			
VBH07-4P	8	4			
VBH07-6P	8	6			
VBH10-4P	8	4		44	27
VBH10-6P	8	6			

各压力下真空度 /-Kpa Vacuum degree under various pressures /-Kpa



Mpa	0.3	0.35	0.4	0.45	0.5	0.55	0.6
型号 Model	0.3	0.35	0.4	0.45	0.5	0.55	0.6
VBH05	83	86.5	90.5	90	88.8	88.5	88
VBH07	84	87	91	90	89	88.5	88
VBH10	85	88	91.5	90	89.5	89	88.5

各真空度真空流量 Vacuum flow rate at each vacuum degree

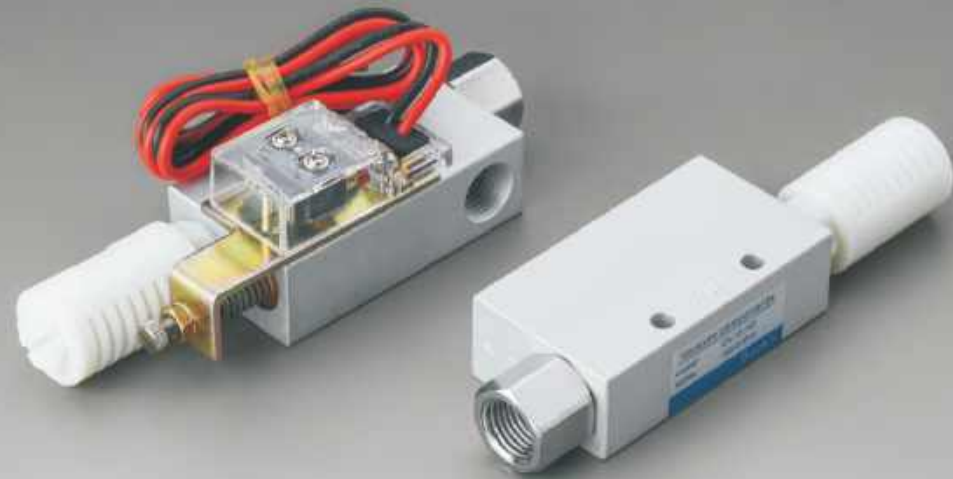


-mmHg -Kpa	0	75	150	225	300	375	450	525	600
型号 Model	0	10	20	30	40	50	60	70	80
VBH05	7	5	5.1	4.2	3	2.6	1.5	1	0.8
VBH07	13	10.8	9.9	7.3	6.2	5.1	3.2	1.8	1.32
VBH10	27	19	16	14.5	13	10.5	8	6.5	2.5

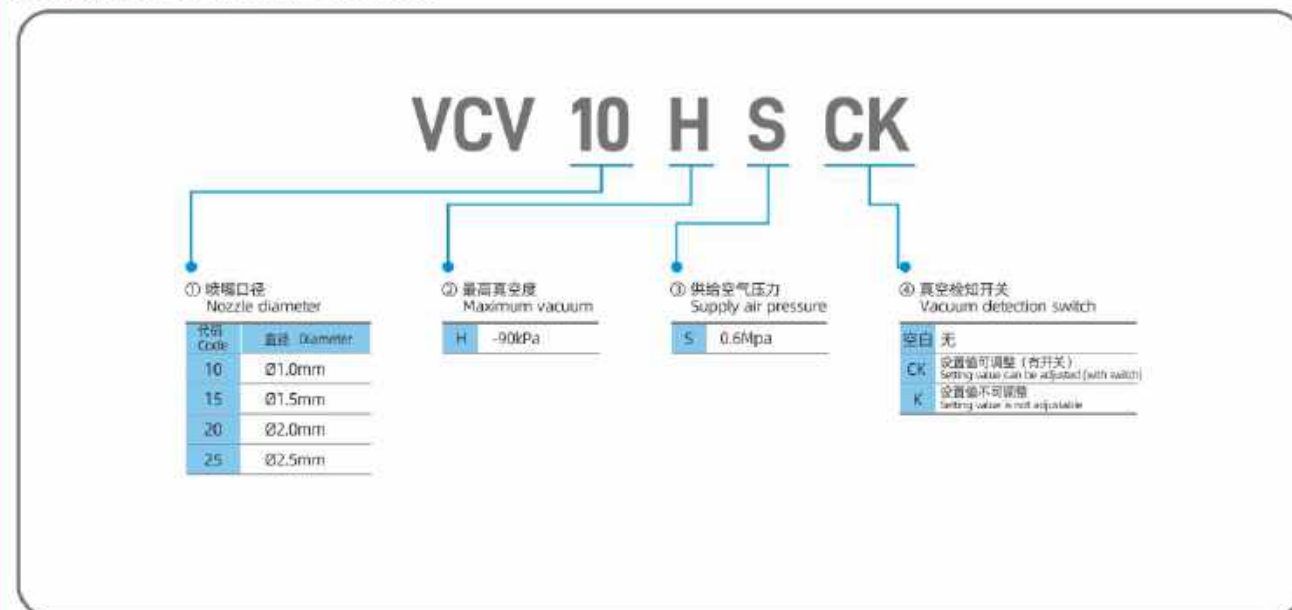
VCV series

Vacuum generator - Jet vacuum generator

真空发生器-喷射式真空发生器

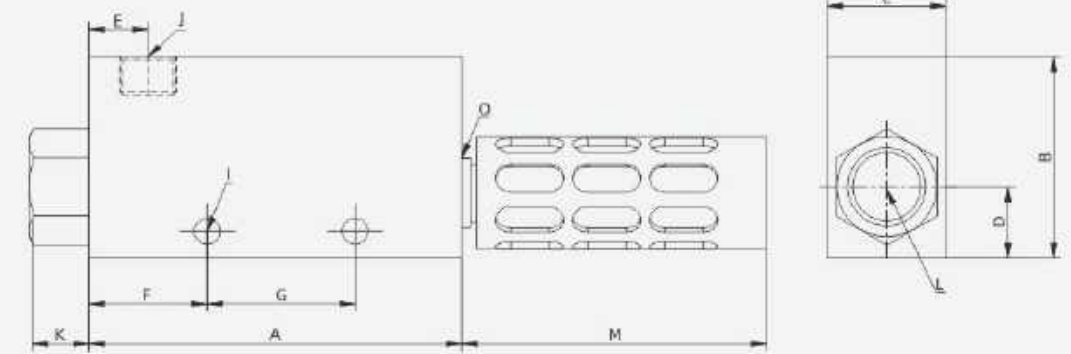


型号表示方式 Model representation



尺寸图表 Dimensional chart

VCV



型号 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	消音器 Silencer
VCV10	45	33	16	10	8	14	20	4.5	2-Ø4.2	G1/8	10	G1/8	30.5	85.5	14	G1/8
VCV15	63	35	20	11	10	20	25	5	2-Ø4.5	G1/4	15	G1/4	50	113	17	G1/4
VCV20	85	40	30	15	13	28	32	7	2-Ø6	G3/8	20	G1/4	57	162	24	G1/2
VCV25	100	60	40	20	16	20	50	5.5	2-Ø6	G1/2	17	G3/8	60	177	28	G3/4

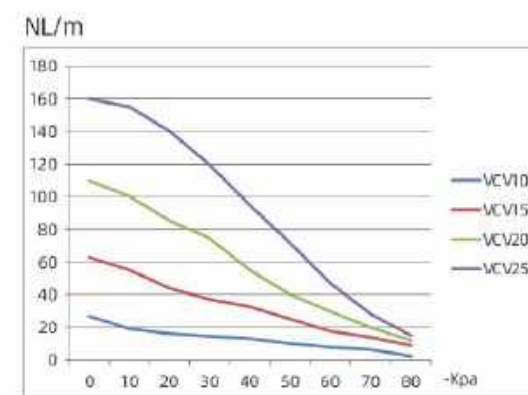
产品参数 Product parameters

型号 Model	最大真空度 Maximum vacuum -kPa	最大真空流量 Maximum vacuum flow L/min	空气消耗量 Air consumption L/min	噪音 Noise level dB(A)	重量 Weight (g)			推荐软管直径 Recommended hose diameter(mm)		L1
					不带开关 Without switch	K	S	进气口 Air inlet	真空口 Vacuum port	
VCV10H	90	27	44	68	80	120	95	8	8	20.2
VCV15H		63	100	72	140	190	165	8	8	20.2
VCV20H		110	180	72	350	460	435	8	10	27.4
VCV25H		160	265	75	730	700	675	10	12	34.6

各真空度真空流量 Vacuum vacuum flow

型号 Model	供给气压 Supply air pressure bar	空气消耗量 Air consumption L/min	0	10	20	30	40	50	55	60	70	80
VCV10H	5.0	44	27	19	16	14.5	13	10.5	-	8	6.5	2.5
VCV15H		100	63	55	44	37	32.5	25	-	18	14	9
VCV20H		180	110	100	85	75	55	40.5	-	30	20	12
VCV25H		265	160	155	140	120	95	72	-	47	28	15

各真空度真空流量折线图 Vacuum vacuum flow the line chart



VM series

Vacuum generator-Base generator

真空发生器-基础型



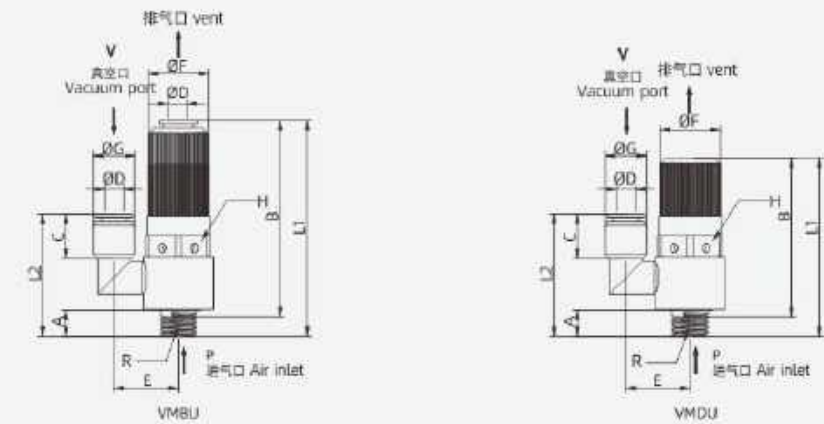
- 结构紧凑，体积小，噪音低；
- 安装简单，噪音低，节省空间。
- Compact structure, light volume and low noise;
- Simple installation, low noise and space saving.

型号表示方式 Model representation



尺寸图表 Dimensional chart

VMBU/VMDU



型号 Model	管径 Pipe diameter ØD	牙径 Tooth diameter R	A	B	C	E	ØF	ØG	L1	L2	对边 Opposite side H	喷嘴直径 Nozzle diameter mm	吸进流量 Suction flow L/min Mslit	最大真空度 Maximum vacuum -Kpa	重量 Weight g
VMBU-05-601	Ø6	G1/8	7	53	11.5	17	16	11	57	32.3	17	0.5	11.5	91	45
VMBU-07-601												0.7	23		
VMBU-10-601												1.0	46		
VMDU-05-601				0.5					11.5						
VMDU-07-601				0.7					23						
VMDU-10-601				1.0					46						

VUH series

Vacuum generator - Straight tube type

真空发生器-直管型



- 直管形真空发生器快速接头类型。
- Type of quick connector for straight tube vacuum generator.

型号表示方式 Model representation

VUH 07 - 6A

① 喷嘴直径 Nozzle Diameter

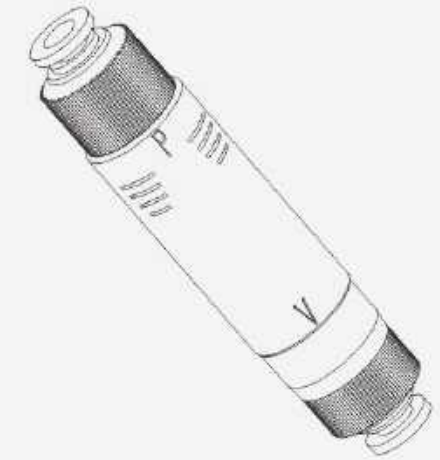
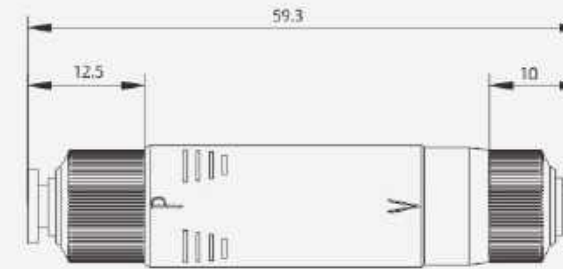
代码 Code	直径 Diameter
0.7	Ø0.7

② 气管直径 Tracheal diameter

代码 Code	直径 Diameter
4A	Ø4
6A	Ø6

尺寸图表 Dimensional chart

VUH



型号 Model	最大真空度 Maximum vacuum degree -kPa	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min
VUH07-4A	90	23	12.5
VUH07-6A			

VZU series

Vacuum generator-Pen generator

真空发生器-笔型发生器



型号表示方式 Model representation

VZU 07 S

② 喷嘴口径
Nozzle diameter

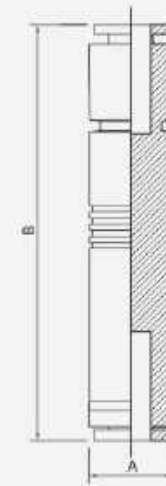
代码 Code	直径 Diameter
05	0.5mm
07	0.7mm

③ 真空度
Vacuum degree

S	85kpa
L	48kpa

尺寸图表 Dimensional chart

VZU



订货代号 Order code			参数 Parameter	
①	②	③	A	B
型号 Model	喷嘴 Nozzle Ømm	类型 Types of	12.8	
VZU05S	0.5	高真空 High vacuum		61
VZU07S	0.7			68
VZU05L	0.5	大流量 Large flow...		61
VZU07L	0.7		68	

不同真空度(-kPa)的真空流量(l/min) Vacuum flow rate (l/min) with different vacuum (-kPa)

型号 Model	供气压力 Gas supply pressure bar	空气消耗量 Air consumption l/min	0	10	20	30	40	48	50	60	70	80	最大真空度 Maximum vacuum -kPa
VZU05S	4.5	14	7	6	5	4	3.5	-	2.5	1.8	1	0.4	-90
VZU07S		18	12	9.5	8.5	7.2	6	-	5.5	4	2	0.4	-90
VZU05L		14	12	10	8	5.5	3	1	-	-	-	-	-48
VZU07L		18	21	18.5	15.5	11.5	8	1.5	-	-	-	-	-48

不同真空度(-kPa)的抽气时间(s/l) Pumping time (s/l) for different degrees of vacuum (-kPa)

型号 Model	供气压力 Gas supply pressure bar	最大真空流量 Maximum vacuum flow rate L/min	10	20	30	40	45	50	60	最大真空度 Maximum vacuum -kPa
VZU05S	4.5	7	0.9	2.6	5.2	10	14	22.5	-	-90
VZU07S		11	0.53	1.4	2.7	5	13	8.7	18	-90
VZU05L		13	0.6	1.5	2.9	8	-	-	-	-48
VZU07L		16	0.34	0.9	2	7.5	-	-	-	-48

VCH series

Vacuum generator-Mini

真空发生器-迷你型



- 迷你型真空发生器，体积小，安装简单；
- 空气消耗量小。
- Mini vacuum generator, lightweight and easy to install;
- Low air consumption.

型号表示方式 Model representation

VCH 05 - M6

① 喷嘴直径 Nozzle Diameter

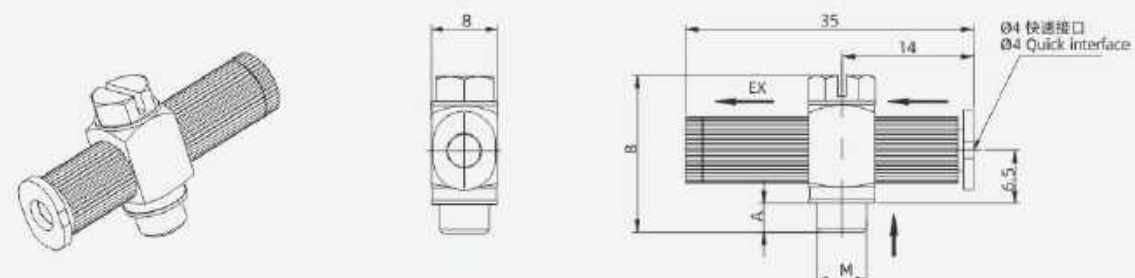
代码 Code	直径 Diameter
0,5	Ø0.5

② 安装螺牙 Installing screw teeth

代码 Code	螺牙 thread
M5	M5*0.8
M6	M6*1.0

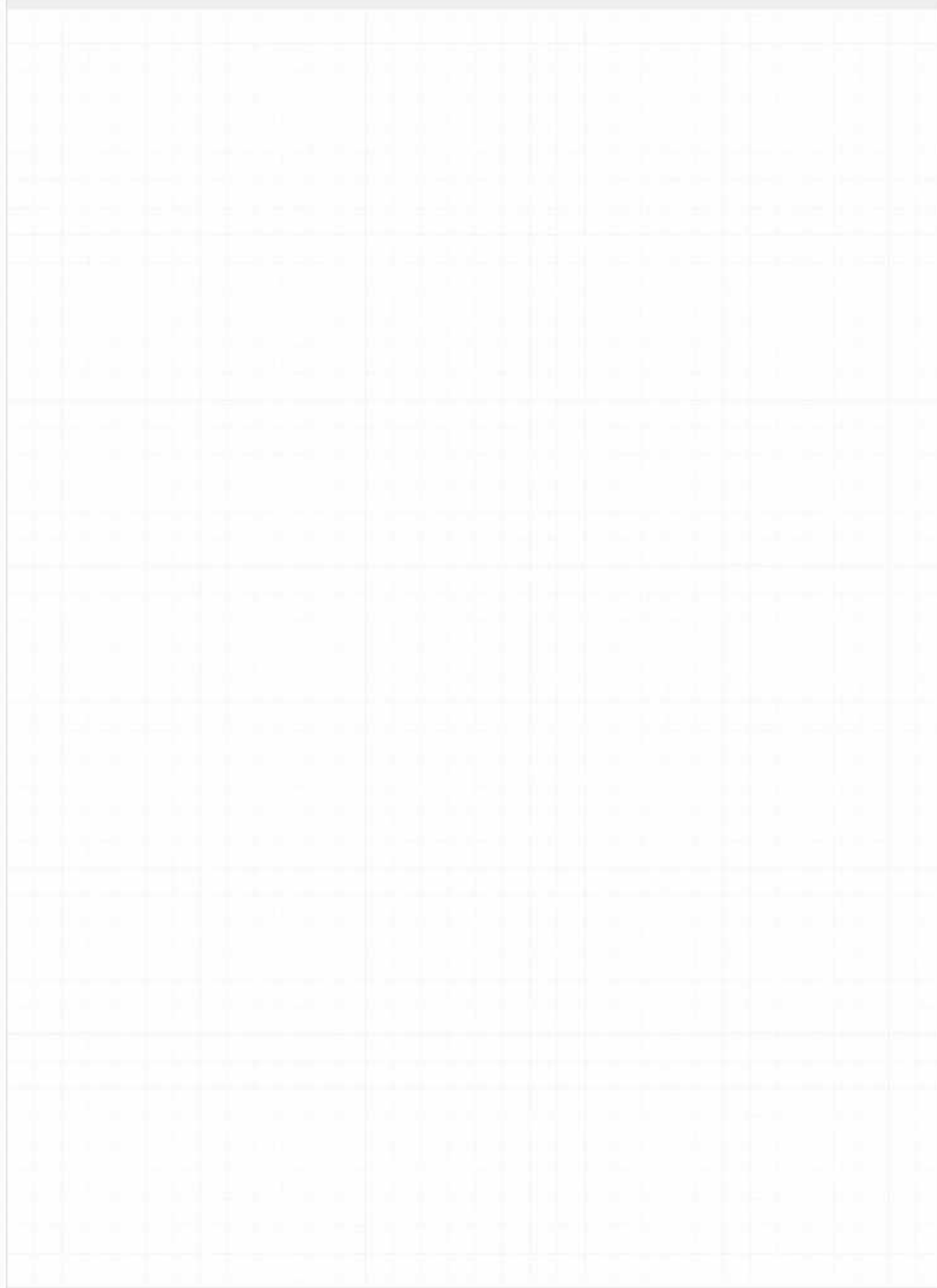
尺寸图表 Dimensional chart

VCH



型号 Model	A	B	M	最大真空度 Maximum vacuum degree -kpa	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min
VCH05-M5	3	18.5	M5*0.8	85	7	11
VCH05-M6	3.5	19	M6*1.0			

MEMO



BCG(X) series

真空抓取系统
Vacuum grab system

271 · JUKKER Compound



BCG(X) series

Vacuum carrying-Compound

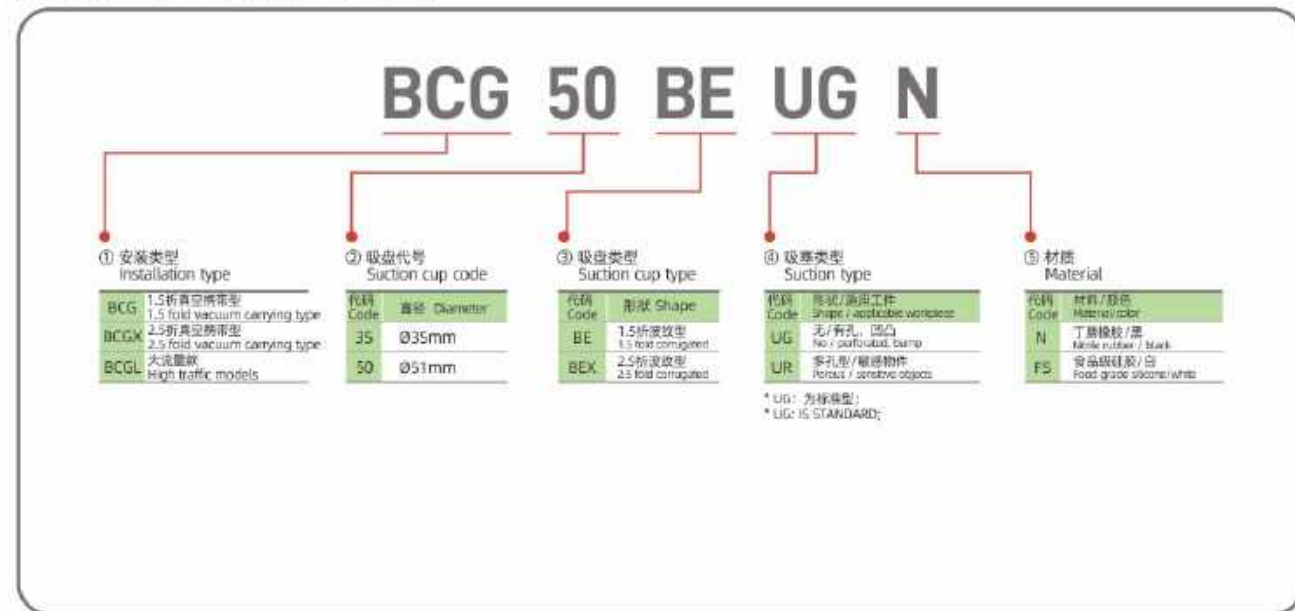
真空携带-复合型



- 复合式特殊吸盘用于搬运敏感的塑料件、印刷电路板、纺织物或复合纤维材料；
- 搬运带孔的电路板；工艺可靠性高，接触面积低，接触压力小；
- 采用由FDA食品等级认证的材料制作而成的接触元件，可以直接接触干燥的食品，比如饼干，点心，蛋糕，华夫饼等；
- 搬运空白电路板。

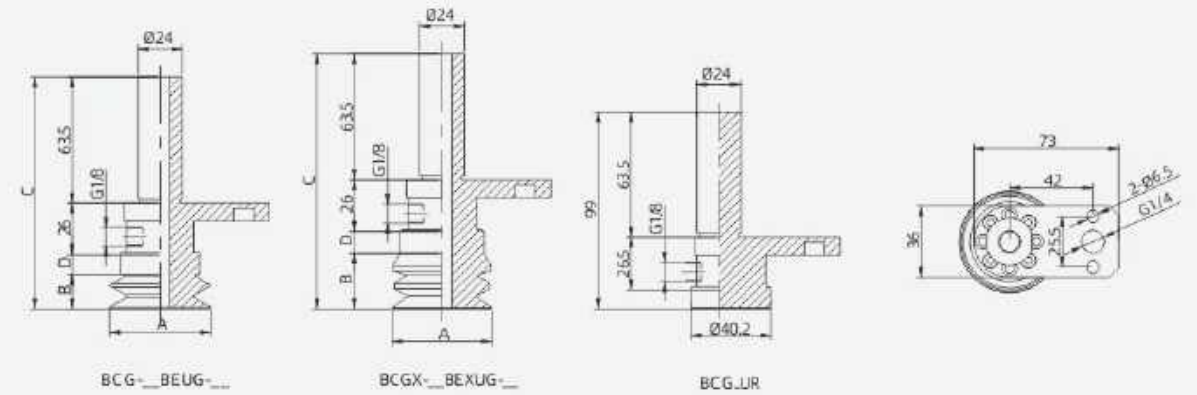
- Composite special suction cups for handling sensitive plastic parts, printed circuit boards, textile or composite fiber materials;
- Handling a circuit board with holes; high process reliability, low contact area, and low contact pressure;
- Contact elements made from FDA food grade certified materials can be in direct contact with dry foods such as biscuits, snacks, cakes, waffles, etc.
- Carry a blank circuit board.

型号表示方式 Model representation



BCG(X)

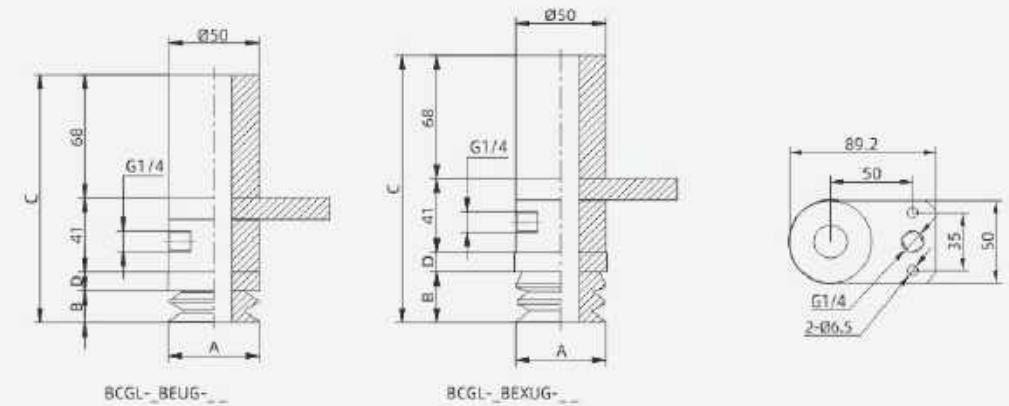
尺寸图表 Dimensional chart



订购代号 Order code					参数 Parameter				
①	②	③	④	⑤	A	B	C	D	型号 Model
安装类型 Installation type	吸盘代号 Suction cup code	吸盘类型 Suction cup type	吸盘类型 Suction type	材质 Material					
	BCG	35	BE	UG	N	35	16	115	9.5
	50				51	17.5	116.5	9.5	BCG50BE-④ ⑤
BCGX	35	BEX	UR	FS	36	26	126	9.5	BCGX35BE-④ ⑤
	50				51	28	128	9.5	BCGX50BE-④ ⑤

BCGL

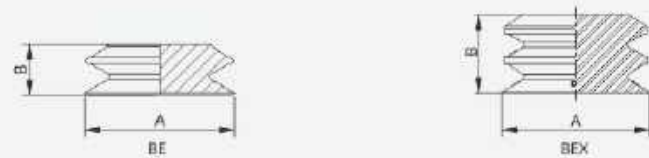
尺寸图表 Dimensional chart



订购代号 Order code					参数 Parameter				
①	②	③	④	⑤	A	B	C	D	型号 Model
安装类型 Installation type	吸盘代号 Suction cup code	吸盘类型 Suction cup type	吸盘类型 Suction type	材质 Material					
	BCGL	50	BE	UG	N	50	17.5	137	10.5
		BEX		FS		28	147.5		BCGL50BEX-④ ⑤

尺寸图表 Dimensional chart

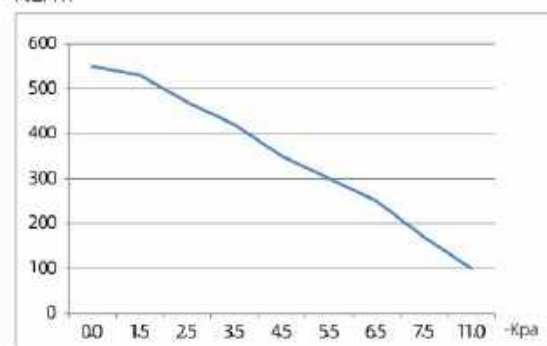
BCG(X)



订货代号 Order code			参数 Parameter		
① 安装类型 Installation type	② 吸盘代号 Suction cup code a	③ 材质 Material	A	B	型号 Model
BE	35	N	35	16	BE 35 - ⑤
	50		51	17.5	BE 50 - ⑤
BEX	35		36	26	BEX 35 - ⑤
	50		51	28	BEX 50 - ⑤

各真空度真空流量 Vacuum vacuum flow

型号 Model	-mmHg -kPa	供气压力 Bar	空气消耗量 Air consumption L/min	0.0	1.5	2.5	3.5	4.5	5.5	6.5	7.5	11.0	最大真空度 Maximum vacuum kPa
				5.0	140	550	530	470	420	350	300	250	
BCG35BE	5.0	5.0	140	550	530	470	420	350	300	250	170	100	11
BCG50BE													
BCGX35BEX													
BCGX50BEX													
BCGL50BE													
BCGL50BEX													
			200	1650	1590	1410	1260	1050	900	750	510	300	

各真空度真空流量折线图
Vacuum vacuum flow the line chart

属性 Attributes

安装方式: 横向安装装配
真空流量: 270~650L/min
空气消耗量: 60~220L/min
气源压力: 4~8bar
Installation method: horizontal installation and assembly
Vacuum flow rate: 270~650L/min
Air consumption: 60~220L/min
Air source pressure: 4~8bar

集成式吸具系统
Integrated suction system

主要优势 Main advantage

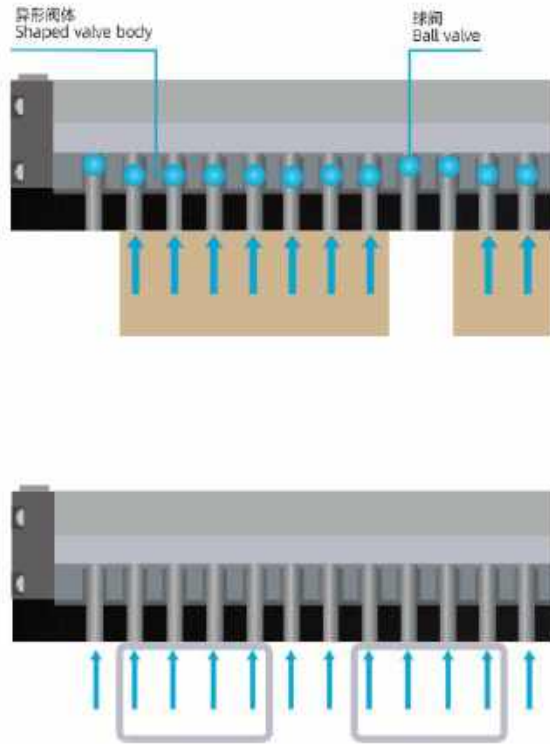
- 通用型吸具，适用于搬运各种尺寸、形状、材质和表面的工件
- 可搬运各种材质的工件，如漆板、未经刨光的木方、包装箱/袋/罐、金属薄板、玻璃、塑料、CFRP等材质工件。
- 搬运透气性工件或有缝隙工件。
- 重量轻，适合机器人配套使用。
- Universal suction tool for handling workpieces of all sizes, shapes, materials and surfaces.
- It can handle workpieces of various materials, such as lacquered boards, unplanned wood, packaging boxes/bags/cans, sheet metal, glass, plastic, CFRP and other materials.
- Handle a breathable workpiece or a gapped workpiece.
- Light weight, suitable for robots.



277 • BMX 集成式吸盘 Built-in vacuum type
287 • BMSG 集成式吸盘 Built-in vacuum type
293 • BMOX 集成式吸盘 Built-in vacuum type
295 • BMB/BMSG 小型集成式吸盘 Small suction cup/vacuum suction device
299 • BMF 集成式吸盘 Built-in vacuum type
301 • BF 集成式吸盘 Built-in vacuum type
303 • BPK 集成式吸盘 Built-in vacuum type

集成式吸具系统 Integrated suction system

新型阀体技术 New valve body technology



止回阀AW Check valve AW

- 铝型材面板上集成了机械式止回阀，当海绵吸孔没有覆盖到工件时，止回阀自动关闭，以保证系统真空度
- 具备防漏气功能，提高搬运效率和吸力
- 异形阀体，增大直径，可使更大流量通过，适用于高速抓取和释放的场合可满足搬运表面高低不平工件的搬运需求

- A mechanical check valve is integrated on the aluminum profile panel. When the sponge suction hole is not covered to the workpiece, the check valve is automatically closed to ensure the system vacuum.
- Anti-leakage function for improved handling efficiency and suction
- The special-shaped valve body can increase the diameter and allow more flow to pass. It can be used for high-speed gripping and releasing to meet the handling requirements of uneven and uneven workpieces.

节流阀ES Throttle valve ES

- 取区域的真空泄露最小化
- 适合翻转和高速搬运
- 节流阀直径大小可选
- Minimize vacuum leakage in the extraction area
- Suitable for flipping and high speed handling
- Throttle diameter is optional

优势 Advantage

- 吸力提升86%以上
基准性能测试表明柏卡真空吸具比市面类似产品的吸力平均高出85%。这得益于柏卡BMX系列海绵吸具采用的真空增压器，更多种阀体以及高密度海绵密封垫等创新设计。
- 独特的灵活性
无论怎样的材料，表面状态和位置，搬运产品只需要大于20mm，就可以吸取。
- 具备独家节能技术
通过采用我们自主研发的真空发生器和阀门技术，我们能够很好的节省耗能20%以上，很好的降低了使用成本。
- 更轻质的重量
采用更轻质的高强度材料和优化的空间，很好的满足轻型机器人搬运应用
- 低噪音污染
通过采用优化的消音技术，很好的将声音控制在74分贝以内
- 更快更简单的产品维护
海绵和吸盘快速更换技术降低了后期产品维护难度。

Suction increased by more than 86%
Benchmark performance tests have shown that BOOKA vacuum suction tools are 85% more attractive than similar products on the market. This is due to the vacuum booster used by BOOKA BMX series sponge suction devices, and more types of valve bodies. Innovative design such as high-density sponge gaskets.

Unique flexibility
Regardless of the material, surface condition and location, the handling product only needs to be larger than 20mm and can be absorbed.

Exclusive energy-saving technology
By adopting our self-developed vacuum generator and valve technology, we can save more than 20% energy consumption and reduce the cost of use.

Lighter weight
Lightweight high-strength materials and optimized space for light robot handling applications

Low Noise level pollution
Control the sound to within 74 decibels with optimized Noise level reduction technology

Faster and simpler product maintenance
Sponge and suction cup quick change technology reduces the difficulty of later product maintenance.

大面积真空吸具系统BMX Large area vacuum suction system BMX



BMX: 内置真空产生装置
大面积真空吸具系统模块化结构，可订做外接端口，可外接真空发生装置，因此也特别适合配套高流量真空泵和鼓风机使用。
BMX: Built-in vacuum generator
The large-area vacuum suction system has a modular structure, can be customized for external ports, and can be connected to a vacuum generating device. Therefore, it is also suitable for use with high-flow vacuum pumps and blowers.



- 多级真空发生器
- 真空泵
- 真空鼓风机
- Multi-stage vacuum generator
- Vacuum pump
- Vacuum blower

备件·海绵密封垫 Spare parts sponge seal



真空海绵垫型号 Vacuum sponge pad model

标准海绵均已配可快速更换的黏合膜
Standard sponges are equipped with a quick-change adhesive film

- 优化调节能力
- 海绵受压后回弹迅速
- 更换海绵时，铝板上不会留有残留物，无需清洗
- 适用于宽度20mm及以上的工作
- 可选配过滤网
- Optimized adjustment ability
- The sponge rebounds quickly after being pressed
- When the sponge is replaced, there will be no residue left on the aluminum plate, no need to clean
- Suitable for workpieces with a width of 20mm and above
- Optional filter



3排吸孔(标准)
3-row suction hole (standard)



5排吸孔(非标/适用于小部件)
5 rows of suction holes (Non-standard /for small parts)

大面积真空吸具系统 BMSG Large area vacuum suction system BMSG



内置真空发生器BMSG (吸盘型号)
Built-in vacuum generator BMSG (suction cup model)

BMSG: 内置真空发生装置
作为一款可随时安装的装置，大面积真空吸具系统BMSG装配有集成式真空发生装置。其可根据工作情况变化进行单独配置和快速拆卸。该系统采用模块化结构，易于维护。
BMSG: Built-in vacuum generator
As a ready-to-install device, the large-area vacuum suction system BMSG is equipped with an integrated vacuum generator. It can be individually configured and quickly disassembled depending on the operating conditions. The system is modular and easy to maintain.



- 推荐可选产品
- 弹簧缓冲支柱
- 真空表
- 线性过滤器
- 真空管
- Recommended optional products
- Spring buffer strut
- Vacuum gauge
- Linear filter
- Vacuum tube

备件·真空吸盘 Spare parts vacuum chuck



吸盘型号 Suction cup model

嵌入式吸盘 Embedded suction cup

- 优化高度补偿和减震效应
- 嵌入式结构，更换快速
- 直径范围20-40mm
- 由符合FDA认证标准的食品级硅胶制成
- 可选配插入式滤芯
- Optimize height compensation and shock absorption
- Embedded structure, fast replacement
- Diameter range 20-40mm
- Made of food grade silicone that meets FDA certification standards
- Optional plug-in filter



3排吸孔
(使用SPB2-40P)
3-row suction hole
(using SPB2-40P)



5排吸孔
(使用SPB2-20P)
5 rows of suction holes
(using SPB2-20P)

BMX series

Integrated vacuum suction system-Built-in vacuum type

集成式真空吸具系统-内置真空型

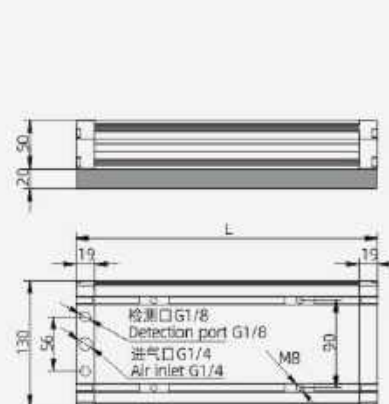
130
吸具宽度
Suction tool width



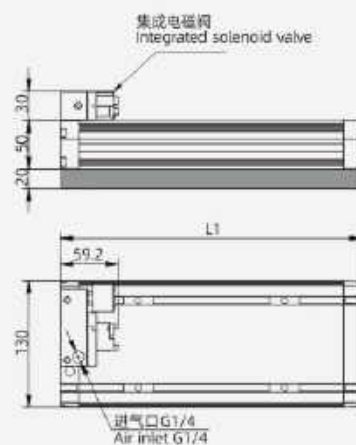
尺寸图表 Dimensional chart

BMX

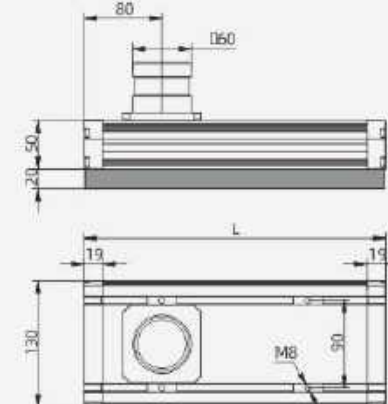
常规型
Regular type



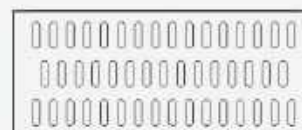
附着集成电磁阀
Attach integrated solenoid valve



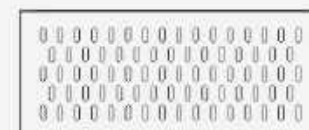
无内置发生器
Without built-in generator



三排孔海绵
Three row porous sponge



五排孔海绵
Five row hole sponge



型号表示方式 Model representation

BMX 20 - 130×240 - ES - L2 - G1- R3

① 海绵厚度 Sponge thickness		② 吸具规格 Specification of suction tool		③ 筒体类型 Body type		④ 发生器规格 Generator specification		⑤ 压力表 Pressure gauge		⑥ 海绵布孔方式 Sponge cloth hole method	
代码 Code	直径 Diameter	宽×长 Width × length	代码 Code	形状 Shape	代码 Code	最大真空流量 Maximum vacuum flow	空白 Blank	无 None	空白 Blank	标准3排孔 Standard 3-row holes	标准5排孔 Standard 5-row holes
15	15mm	130X240	ES	节流型 Throttling type	空白 Blank	无内置发生器 No built-in generator	G1	附圆形真空表 Attached circular vacuum gauge	R3	标准3排孔 Standard 3-row holes	标准5排孔 Standard 5-row holes
20	20mm	130X310	AW	正抽型(不可倒吸) Check type (non-side suction allowed)	L2	700L/min	V1	附数字式压力开关 Attached digital display pressure switch	RL3	3排孔带过滤网 3-row perforated filter screen	5排孔带过滤网 5-row perforated filter screen
		130X415	SW	正抽型(可倒吸) Check type (side suction possible)	L3	1040L/min	S1	附着集成电磁阀 Attached integrated solenoid valve (集供气、检测、反吹一体) (Integrated with gas supply, detection, and blowback)	RL5	5排孔带过滤网 5-row perforated filter screen	
		130X550			L4	1400L/min					
		130X645									
		130X800									
		130X1000									
		130X1235									

* 吸具长度可随意分切尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum kPa	理论吸力 N/-60kpa Theoretical suction N/-60kpa		重量 Weight kg	L
				3排孔 3 rows of holes	5排孔 5 rows of holes		
BMX20, 130×240, ES, L2-R□	180	700	-72	399	240	1.9	240
BMX20, 130×310, ES, L2-R□	180	700		536	323	2.3	310
BMX20, 130×415, ES, L3-R□	270	1040		741	447	2.5	415
BMX20, 130×550, ES, L3-R□	270	1040		980	600	3.5	550
BMX20, 130×645, ES, L3-R□	270	1040		1186	716	3.9	645
BMX20, 130×800, ES, L4-R□	360	1400		1493	903	5.5	800
BMX20, 130×1000, ES, L4-R□	360	1400		1870	1130	6.4	1000
BMX20, 130×1235, ES, L4-R□	360	1400		2348	1399	7.2	1235

BMX series

Integrated vacuum suction system-Built-in vacuum type

集成式真空吸具系统-内置真空型

80

吸具宽度
Suction tool width



型号表示方式 Model representation

BMX 20 - 80×240 - ES - L2 - R3

① 海绵厚度 Sponge thickness

代码 Code	直径 Diameter
15	15mm
20	20mm

② 吸具规格 Specification of suction tool

型号 Model	宽度 × 长度 width × length
80X240	
80X310	
80X415	
80X550	
80X645	
80X800	

③ 液体类型 Body type

代码 Code	形状 Shape
ES	节流型 Throttling type
AW	止回流(不可侧吸) Check type (Non side suction allowed)
SW	止回流(可侧吸) Check type (Side suction possible)

④ 发生器规格 Generator specification

代码 Code	最大真空流量 Maximum vacuum flow
空白 Blank	无内置发生器 No built-in generator
L2	700L/min
L3	1040L/min

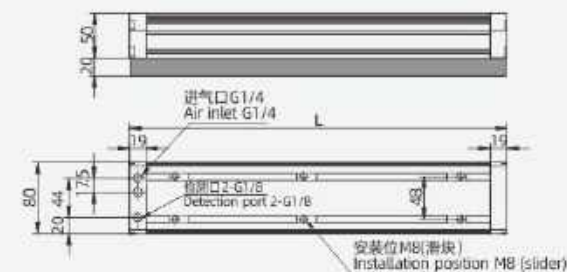
⑤ 海绵布孔方式 Sponge cloth hole method

R3	标准3排孔 Standard 3-row holes
R3	1排孔带过滤网 1-row perforated filter screen

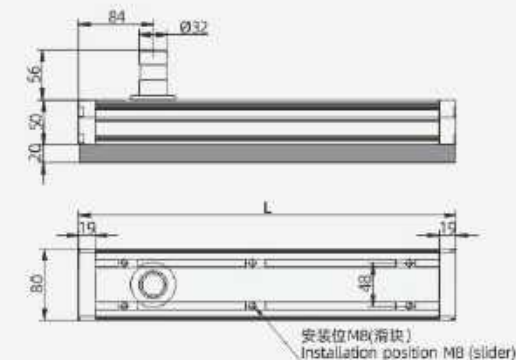
尺寸图表 Dimensional chart

BMX

内置真空发生器款 Built in vacuum generator model



无内置发生器款 Version without built-in generator



型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum -kPa	理论吸力 N/-60kPa Theoretical suction N/-60kPa	重量 Weight kg	L
BMX20, 80×240, ES, L1	90	350	-72	197	1.1	240
BMX20, 80×310, ES, L1	90	350		265	1.3	310
BMX20, 80×415, ES, L1	90	350		367	1.7	415
BMX20, 80×550, ES, L2	180	700		485	2.1	550
BMX20, 80×645, ES, L2	180	700		587	2.4	645
BMX20, 80×800, ES, L2	180	700		739	3.0	800

* 吸具长度可随意分切尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

BMX series

Integrated vacuum suction system-Built-in vacuum type

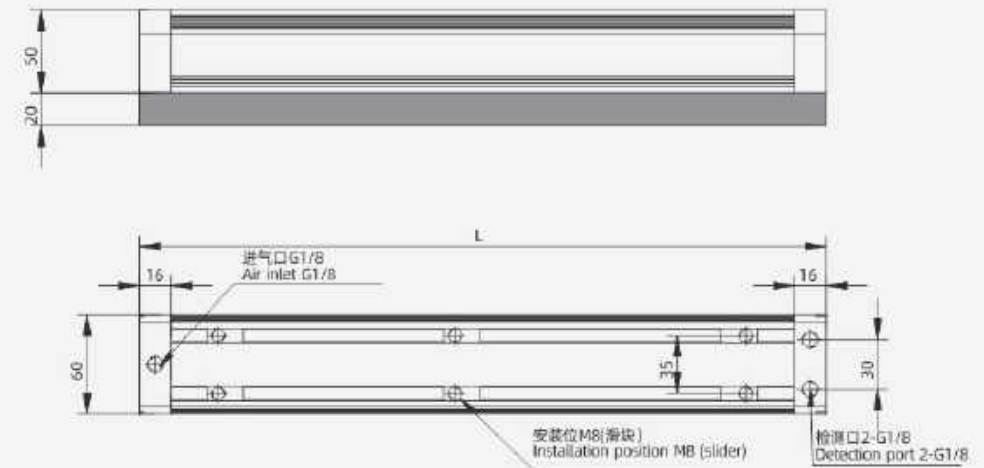
集成式真空吸具系统-内置真空型

60
吸具宽度
Suction tool width



尺寸图表 Dimensional chart

BMX



型号表示方式 Model representation

BMX 20 - 60×240 - ES - L1 - R2

① 海绵厚度 Sponge thickness

代码 Code	直径 Diameter
15	15mm
20	20mm

② 吸具规格 Specification of suction tool

型号 width × length
60X240
60X310
60X415
60X550
60X645

③ 液体类型 Body type

代码 Code	形状 Shape
ES	节流型 Throttling type
AW	止回流(不可倒吸) Check type (Non side suction allowed)
SW	止回流(可倒吸) Check type (Side suction possible)

④ 发生器规格 Generator specification

代码 Code	最大真空流量 Maximum vacuum flow
空白 Blank	无内置发生器 No built-in generator
L1	350L/min
L2	700L/min

⑤ 海绵布孔方式 Sponge cloth hole method

R2	标准2排孔 Standard 2-row holes
RL2	2排孔带过滤网 2-row perforated filter screen

型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum -kpa	理论吸力 N/-60Kpa Theoretical suction N/-60Kpa	重量 Weight kg	L
BMX20. 60x240. ES. L1	90	350	-72	137	0.8	240
BMX20. 60x310. ES. L1	90	350		180	1.0	310
BMX20. 60x415. ES. L1	90	350		248	1.3	415
BMX20. 60x550. ES. L2	180	700		338	1.6	550
BMX20. 60x645. ES. L2	180	700		401	1.9	645

* 吸具长度可随零件尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

BMX series

Integrated vacuum suction system-Built-in vacuum type

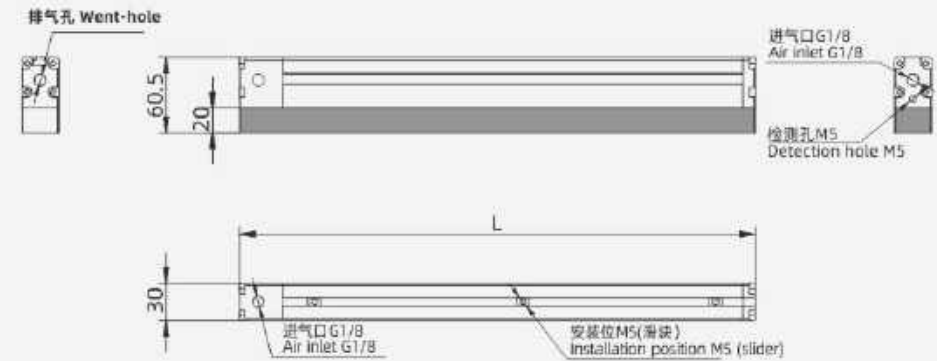
集成式真空吸具系统-内置真空型

30
吸具宽度
Suction tool width



尺寸图表 Dimensional chart

BMX



型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum -kPa	理论吸力 N/-60Kpa Theoretical suction N/-60Kpa	重量 Weight kg	L
BMX20-30x240-ES-L1	90	350		84	0.6	240
BMX20-30x310-ES-L1	90	350	-72	115	0.75	310
BMX20-30x415-ES-L1	90	350		157	0.95	415

* 吸具长度可随意分切尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

型号表示方式 Model representation

BMX 20 - 30x240 - ES - L1 - R1

① 海绵厚度 Sponge thickness		② 吸具规格 Specification of suction tool		③ 液体类型 Body type		④ 发生器规格 Generator specification		⑤ 海绵布孔方式 Sponge cloth hole method	
代码 Code	毫米 Dimension	宽度 width	长度 length	ES	节流型 Throttling type	代码 Code	最大真空流量 Maximum vacuum flow	R1	标准1排孔 Standard 1 row holes
15	15mm	30	240			L1	350L/min	RL1	1排孔带过滤网 1 row perforated filter screen
20	20mm	30	310						
		30	415						

BMX series

Integrated vacuum suction system-Mini

真空吸具-迷你型



- 体积小, 重量轻, 安装方便;
- 主要应用于轻小型零件的抓取和搬运;
- 可根据自身需求直接联系业务人员定制。
- Light volume, light weight and convenient installation;
- It is mainly used for grasping and handling light and small parts;
- It can be customized by directly contacting business personnel according to their own needs.

型号表示方式 Model representation

BMX 5 - 22x38 - ES - L1

① 海绵厚度
Sponge thickness

5mm
10mm
15mm
20mm

② 吸具规格
Specification of suction tool
规格 Width & length

22x38
60x80
60x120
80x160

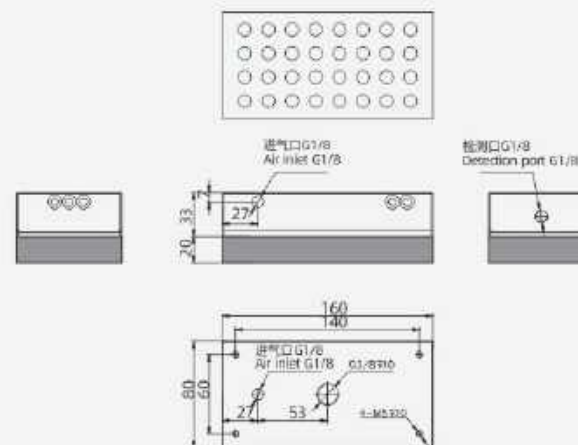
③ 箱体类型
Body type

代码 Code	形状 Shape
ES	基本型 Basic type

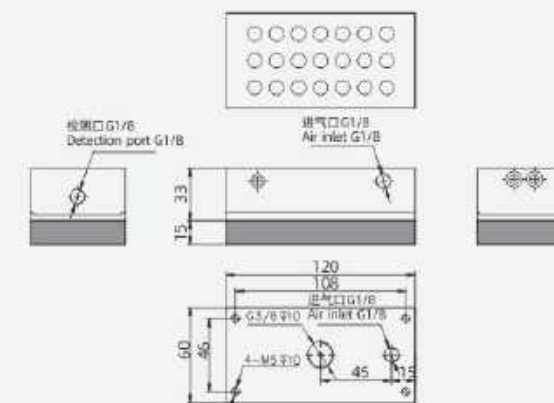
尺寸图表 Dimensional chart

BMX

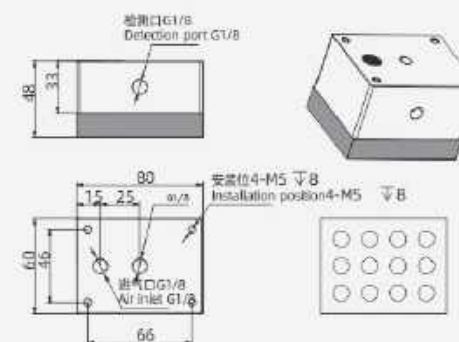
BMX20.80X160.ES.L3



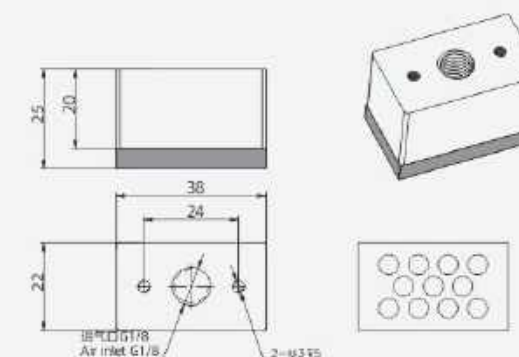
BMX15.60X120.ES.L3



BMX15.60X80.ES.L1



BMX5.22X38.ES



型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow L/min	最大真空度 Maximum vacuum -kPa	理论吸力 N/-40kPa Theoretical suction N/-40kPa	重量 Weight g
BMX20.80x160.ES.L3	65	130	-85	100	780
BMX15.60x120.ES.L3	50	90		53	480
BMX15.60x80.ES.L1	24	40		37	200
BMX5.22x38.ES	-	-		8	45

BMSG series

Suction cup vacuum suction system-Built-in vacuum type

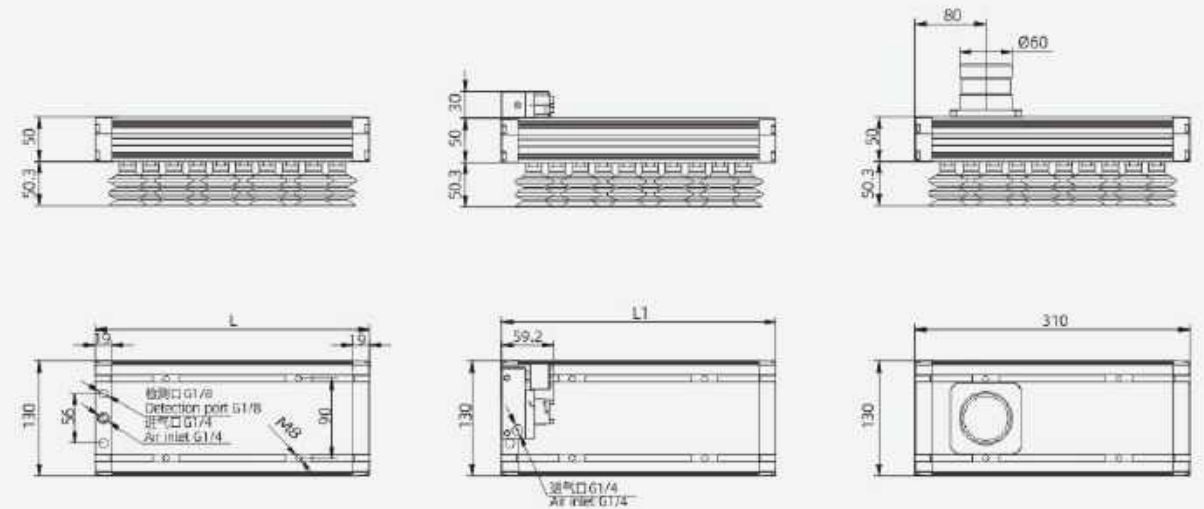
吸盘式真空吸具系统-内置真空型

130
吸具宽度
Suction tool width



尺寸图表 Dimensional chart

BMSG



型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum -kPa	理论吸力 N/-60kpa Theoretical suction N/-60Kpa	重量 Weight kg	L
BMSG42, 130x240, AW, L2	180	700	-72	274	2.5	240
BMSG42, 130x310, AW, L2	180	700		342	3.2	310
BMSG42, 130x415, AW, L3	270	1040		479	3.4	415
BMSG42, 130x550, AW, L3	270	1040		684	4.6	550
BMSG42, 130x645, AW, L3	270	1040		752	5.1	645
BMSG42, 130x800, AW, L4	360	1400		958	7.7	800
BMSG42, 130x1000, AW, L4	360	1400		1231	8.9	1000
BMSG42, 130x1235, AW, L4	360	1400		1573	10.2	1235

* 吸具长度可随分切尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

型号表示方式 Model representation

BMSG 42 - 130x240 - AW - L2 - G1

① 吸盘直径 Suction cup diameter	② 吸具规格 Specification of suction tool	③ 壳体类型 Body type	④ 发生器规格 Generator specification	⑤ 额外配件 Additional accessories
代码 Code 42 直径 Diameter Ø42mm	规格 Width x length 130x240 130x310 130x415 130x550 130x645 130x800 130x1000 130x1235	代码 Code AW 形状 Shape 止回型(不可侧吸) Check type (Non side suction allowed) 空白 Blank 止回型(可侧吸) Check type (Side suction possible)	代码 Code 空白 Blank L2 L3 L4 最大真空流量 Maximum vacuum flow 无内置发生器 No built-in generator 700L/min 1040L/min 1400L/min	代码 Code 空白 Blank G1 V1 S1 无 None 附圆形真空表 Attached circular vacuum gauge 附数字式压力开关 Attached digital display pressure switch 附集成电磁阀 Attached integrated solenoid valve

BMSG series

Suction cup vacuum suction system-Built-in vacuum type

吸盘式真空吸具系统-内置真空型

80

吸具宽度
Suction tool width

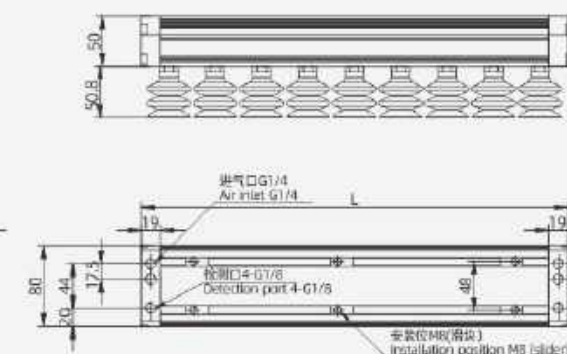
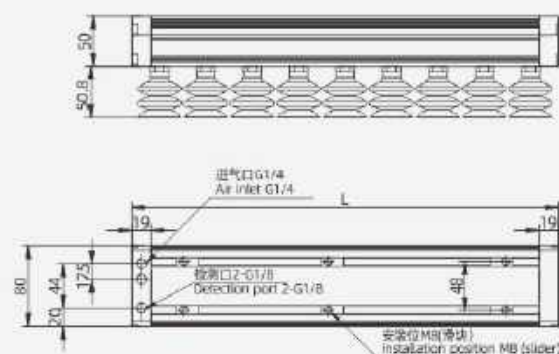


尺寸图表 Dimensional chart

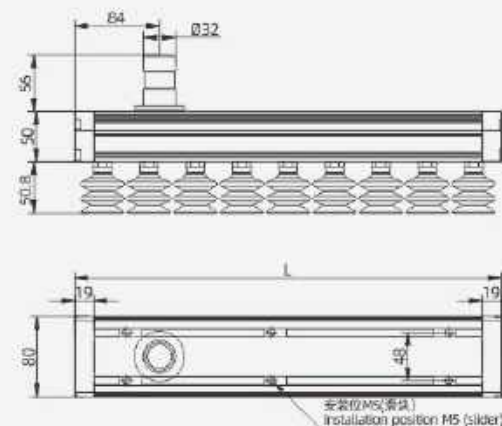
BMSG

80X240/80X310/80X415

80X550/80X645/80X800



无内置发生器款
Version without built-in generator



型号表示方式 Model representation

BMSG 42 - 80×240 - AW - L2

① 吸盘直径
Suction cup diameter

代码 Code 直径 Diameter
42 Ø42mm

② 吸具规格
Specification of suction tool

规格 width × length
80X240
80X310
80X415
80X550
80X645
80X800

③ 箱体类型
Body type

代码 Code 形状 Shape
AW 止回型(不可侧吸)
Check type (non-side suction allowed)
SW 止回型(可侧吸)
Check type (side suction possible)

④ 发生器规格
Generator specification

代码 Code 最大真空流量
Maximum vacuum flow
空白 Blank 无内置发生器
No built-in generator
L2 700L/min
L3 1040L/min

型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum -kPa	理论吸力 N/-60kpa Theoretical suction N/-60kpa	重量 Weight kg	L
BMSG42: 80x240: AW: L2	180	700	-72	182	1.4	240
BMSG42: 80x310: AW: L2	180	700		228	1.7	310
BMSG42: 80x415: AW: L2	180	700		319	2.2	415
BMSG42: 80x550: AW: L3	270	1040		456	2.8	550
BMSG42: 80x645: AW: L3	270	1040		502	3.2	645
BMSG42: 80x800: AW: L3	270	1040		638	3.9	800

* 吸具长度可根据分切尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

BMSG series

Suction cup vacuum suction system-Built-in vacuum type

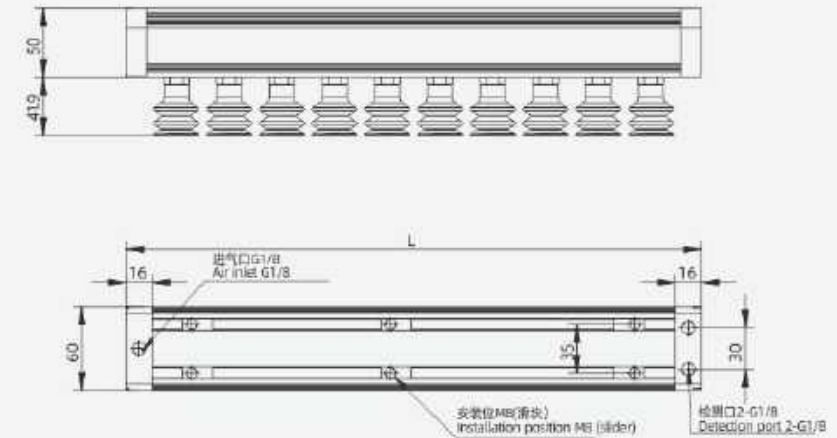
吸盘式真空吸具系统-内置真空型

60
吸具宽度
Suction tool width



尺寸图表 Dimensional chart

BMSG



型号表示方式 Model representation

BMSG 32 - 60×240 - AW - L2



型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum kPa	理论吸力 N/-60kpa Theoretical suction N/-60kpa	重量 Weight kg	L
BMSG32. 60x240. AW. L2	180	700	-72	180	1.1	240
BMSG32. 60x310. AW. L2	180	700		252	1.4	310
BMSG32. 60x415. AW. L2	180	700		324	1.8	415
BMSG32. 60x550. AW. L2	180	700		468	2.4	550
BMSG32. 60x645. AW. L2	180	700		540	2.7	645

* 吸具长度可随零件尺寸，宽度不变。
* The length of the suction tool can be slit and the width is constant.

BMOX series

Vacuum suction system-Elliptic type

真空吸具系统-椭圆型



- 深凹型结构适用于各种袋状产品抓取;
- 结构强度高, 吸附力高, 满足重负载使用;
- 内嵌式海绵, 使海绵更经久耐用, 不易脱落。
- The deep concave structure is suitable for grabbing various bag shaped products;
- High structural strength, high adsorption capacity, suitable for heavy load use;
- Embedded sponge makes the sponge more durable and less prone to detachment.

型号表示方式 Model representation

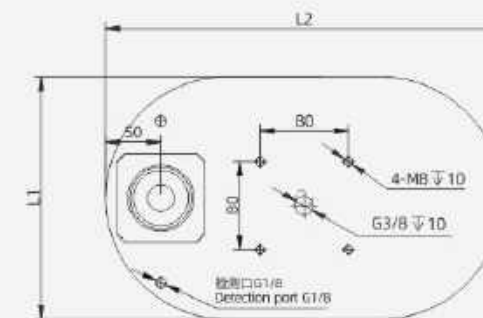
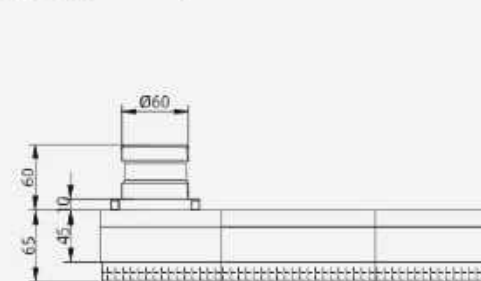
BMOX 20 - 220×360 - ES - L4



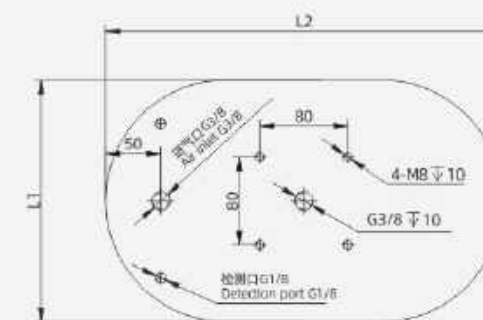
BMOX

尺寸图表 Dimensional chart

外置发生器款 External generator model



内置发生器款 Built in generator model



外置发生器款 External generator model

型号 Model	真空流量需求 Vacuum flow demand L/min	最大负载 Maximum Load N	L1	L2
BMOX20, 120×230, ES	670	200	120	230
BMOX20, 230×360, ES	1005	350	230	360
BMOX20, 250×380, ES	1340	450	250	380

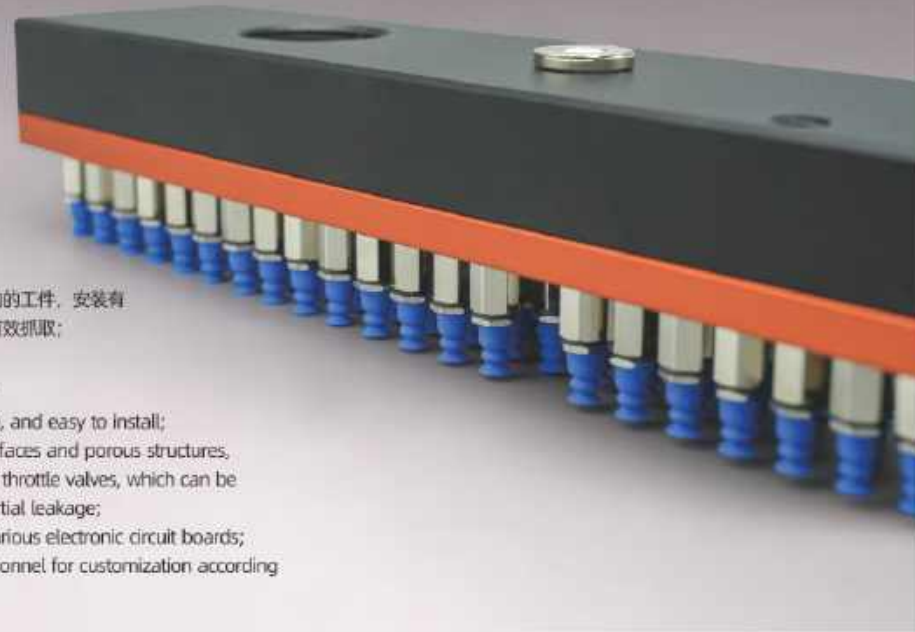
内置发生器款 Built in generator model

型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow rate L/min	最大真空度 Maximum vacuum kPa	最大负载 Maximum Load N	L1	L2
BMOX20, 120×230, ES, L2	180	700	65	200	120	230
BMOX20, 230×360, ES, L3	270	1040		350	230	360
BMOX20, 250×380, ES, L4	360	1400		450	250	380

BMB/BMSG series

Small suction cup vacuum suction device

小型吸盘式真空吸具



- 体积轻巧，结构简洁，安装方便；
- 主要应用于表面光滑的零件及多孔型结构的工件，安装有自闭阀、节流阀，即使有部分泄露也可有效抓取；
- 适合各类电子线路板上下料；
- 可根据自身需求直接联系业务人员定制。
- Lightweight in size, simple in structure, and easy to install;
- Mainly used for parts with smooth surfaces and porous structures, equipped with self closing valves and throttle valves, which can be effectively grasped even if there is partial leakage;
- Suitable for loading and unloading various electronic circuit boards;
- You can directly contact business personnel for customization according to your own needs.

型号表示方式 Model representation

BMB 5 - 27x90 - AW - L1

- ① 吸具类型
Type of suction device
- BMB (1.5折 break)
 - BMSG (2.5折 break)

② 吸盘直径
Suction cup diameter

代码 Code	直径 Diameter
3	Ø3mm
5	Ø5mm
7	Ø7mm
8	Ø8mm
9	Ø9mm

③ 吸具规格
Specification of suction tool

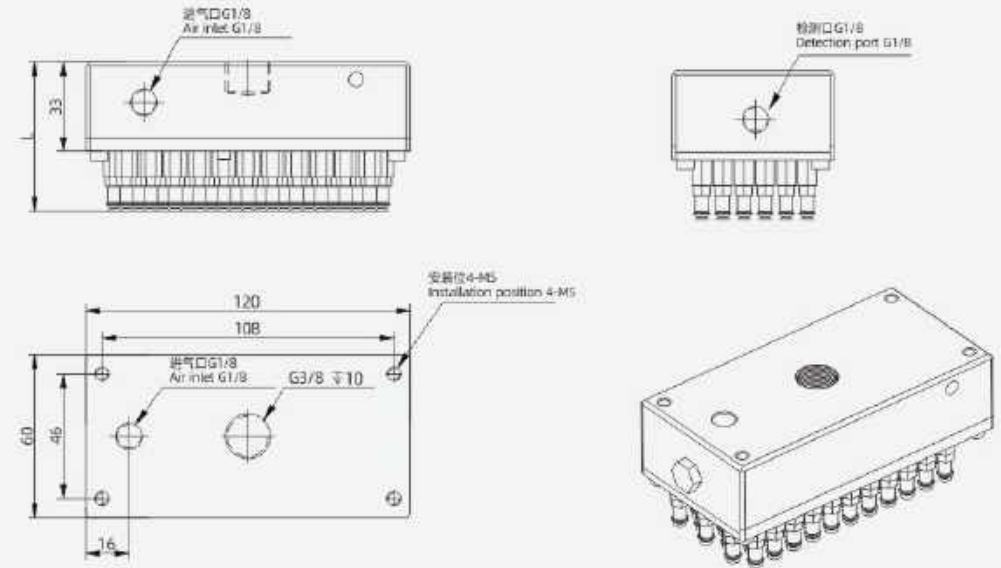
宽×长 Width × length
27X90
60x84
15x600
60x120

- ④ 壳体类型
Body type
- ES 基本型(仅适用与27*90规格)
Basic type (only applicable to 27*90 specification)
 - AW 止回型
Check type

BMB

尺寸图表 Dimensional chart

BMB□.60X120.AW.L3

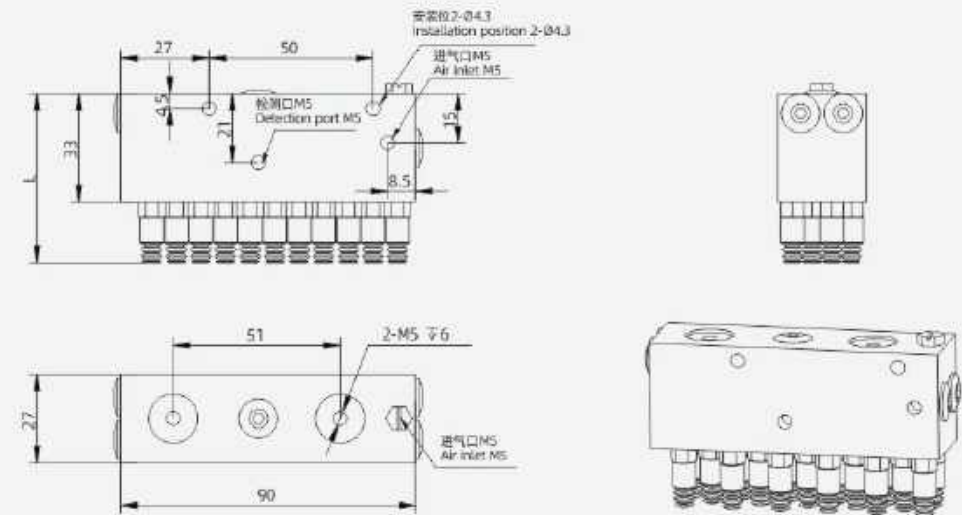


型号 Model	供气压力 Air supply pressure bar	吸盘直径 Suction cup diameter mm	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow L/min	最大真空度 Maximum vacuum kPa	理论吸力 N/-40Kpa Theoretical suction N/-40Kpa	重量 Weight g	L
BMB5.60X120.AW.L3	4-7	5	50	90	85	20	690	55
BMB8.60X120.AW.L3		7				95		

BMSG

尺寸图表 Dimensional chart

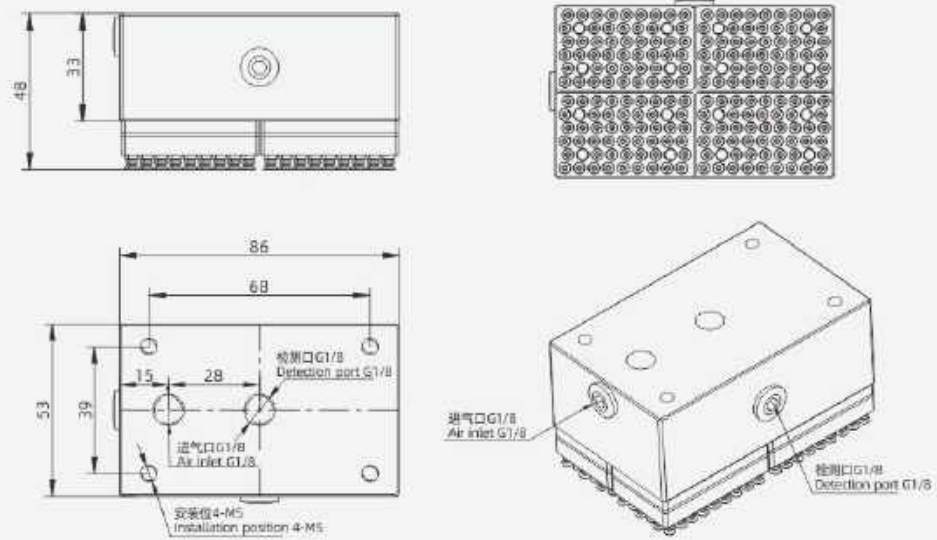
BMSG□.27X90.ES.L2



型号 Model	供气压力 Air supply pressure bar	吸盘直径 Suction cup diameter mm	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow L/min	最大真空度 Maximum vacuum kPa	理论吸力 N/-40Kpa Theoretical suction N/-40Kpa	重量 Weight g	L		
BMSG5.27X90.AW.L2	4-7	5	44	85	85	10	200	55.6		
BMSG7.27X90.AW.L2		7				18			205	51.6
BMSG9.27X90.AW.L2		9				22			210	57.2

尺寸图表 Dimensional chart

BMSG

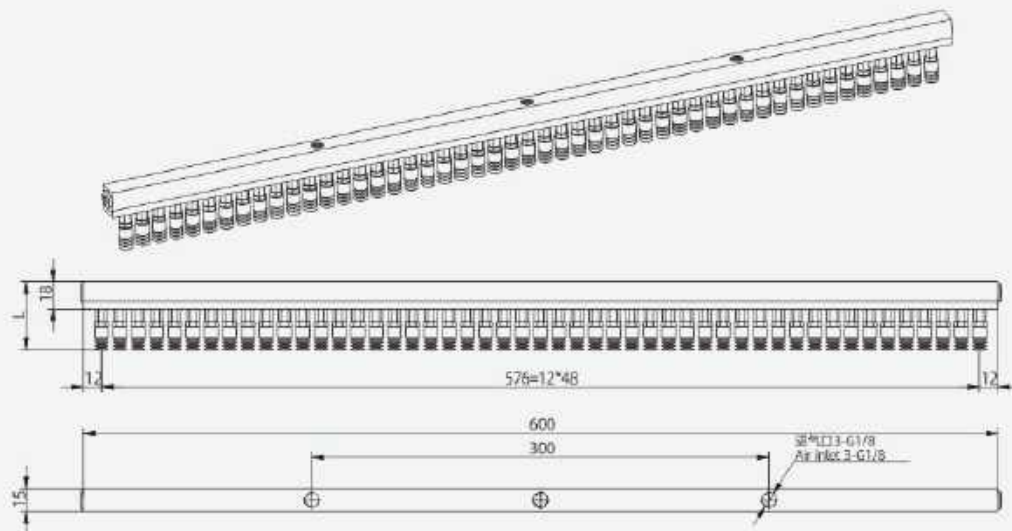


BMB3 53X86 AW L2

型号 Model	供气压力 Air supply pressure bar	吸盘直径 Suction cup diameter mm	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow L/min	最大真空度 Maximum vacuum -kPa	理论吸力 N/-40Kpa Theoretical suction N/-40Kpa	重量 Weight g
BMB3 53X86 AW L2	4-7	3.6	24	40	85	12	220

尺寸图表 Dimensional chart

BMSG



BMSG□15X600 AW (可根据需求变更长度 Length can be changed according to requirements)

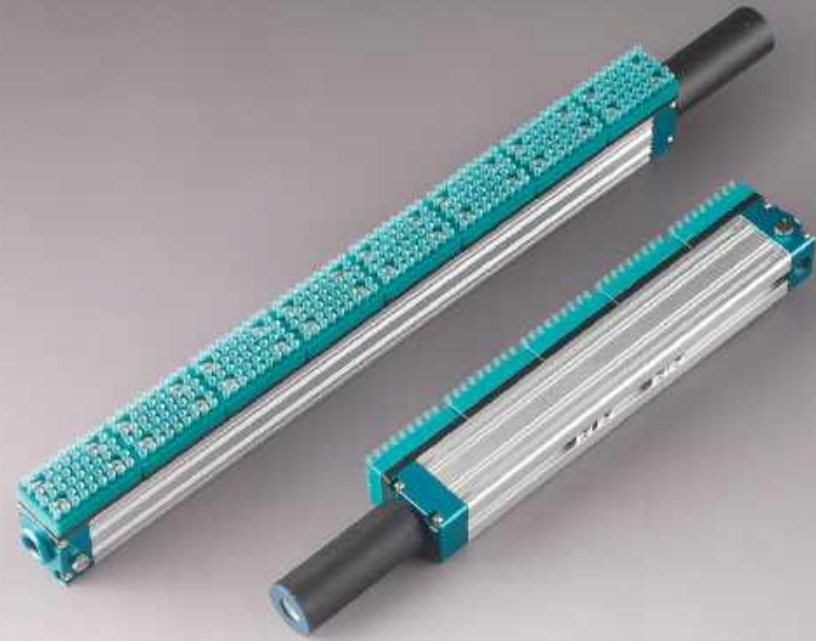
型号 Model	吸盘直径 Suction cup diameter mm	推荐真空流量 Recommended vacuum flow rate L/min	理论吸力 N/-40Kpa Theoretical suction N/-40Kpa	重量 Weight g	L
BMSG5.15X600 AW	5	≥80	22	700	43.1
BMSG7.15X600 AW	7		41	705	39.1
BMSG9.15X600 AW	9		50	710	44.7

MEMO

BMF series

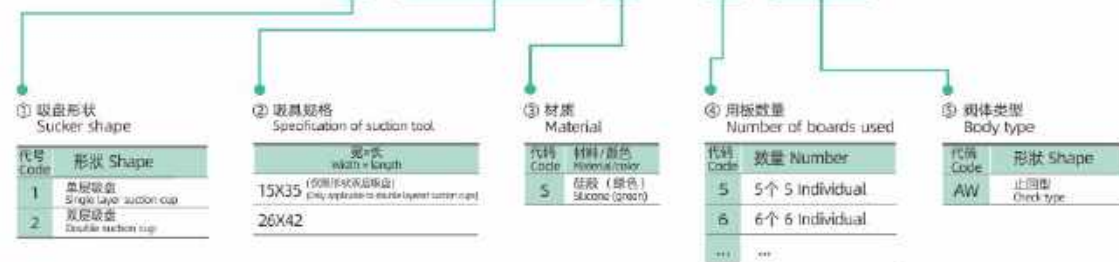
Suction cup vacuum suction system-Built-in vacuum type

吸盘式真空吸具系统-内置真空型



型号表示方式 Model representation

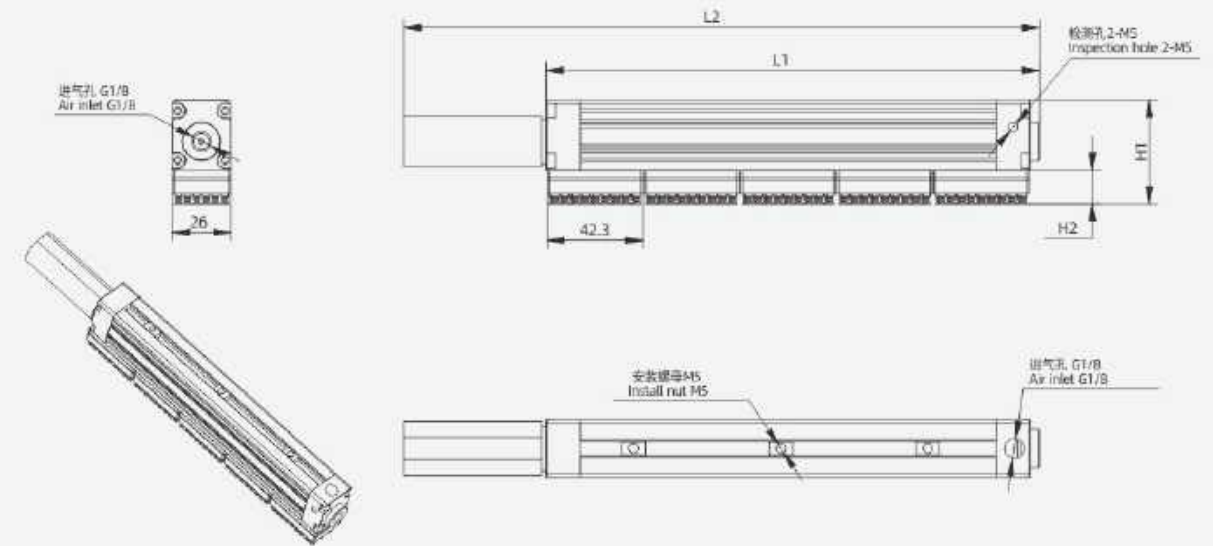
BMF. 2. 26×42 S - 5. AW. L1



BMF

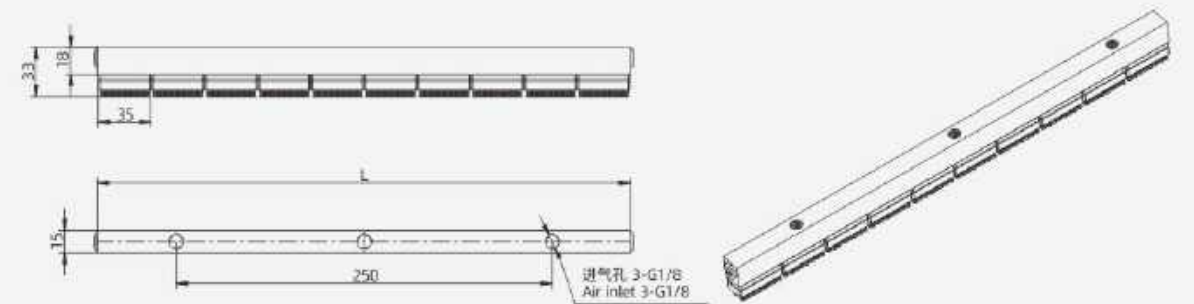
尺寸图表 Dimensional chart

BMF □.26X42S-□.AWL1



型号 Model	供气压力 Air supply pressure bar	吸盘直径 Suction cup diameter mm	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow L/min	最大真空度 Maximum vacuum kPa	理论吸力 N/-40Kpa Theoretical suction N/-40Kpa	重量 Weight g	L1	L2	H1	H2
BMF. 1. 26X42S-5.AW.L1	4-7	3.6	70	350	72	75	365	218	281	44.2	13.2
BMF. 1. 26X42S-8.AW.L1						120	575	346	409		
BMF. 2. 26X42S-5.AW.L1						75	365	218	281	45.9	14.9
BMF. 2. 26X42S-8.AW.L1						120	575	346	409		

BMF.2.15X35S-□.AW



型号 Model	吸盘直径 Suction cup diameter mm	推荐真空流量 Recommended vacuum flow rate L/min	理论吸力 N/-60Kpa Theoretical suction N/-60Kpa	重量 Weight g	L
BMF. 2.15X35S-5. AW	3.5	≥80	35	73	177.4
BMF. 2.15X35S-6. AW			42	86	212.8
BMF. 2.15X35S-7. AW			49	99	248.2
BMF. 2.15X35S-8. AW			56	112	283.6
BMF. 2.15X35S-9. AW			63	125	319
BMF. 2.15X35S-10. AW			70	138	354.4

BF series

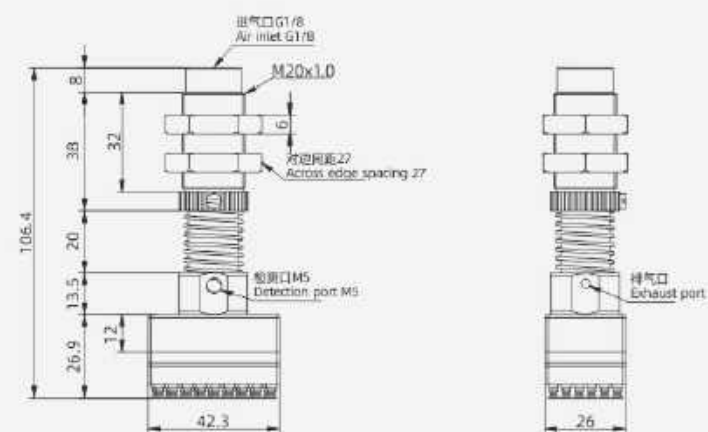
Suction cup vacuum suction system-Built-in vacuum type

吸盘式真空吸具系统-内置真空型



尺寸图表 Dimensional chart

BF



型号 Model	空气消耗量 Air consumption L/min	最大真空流量 Maximum vacuum flow L/min
BF. 2. 26X42-20. S. AW. L1	33	41

型号表示方式 Model representation

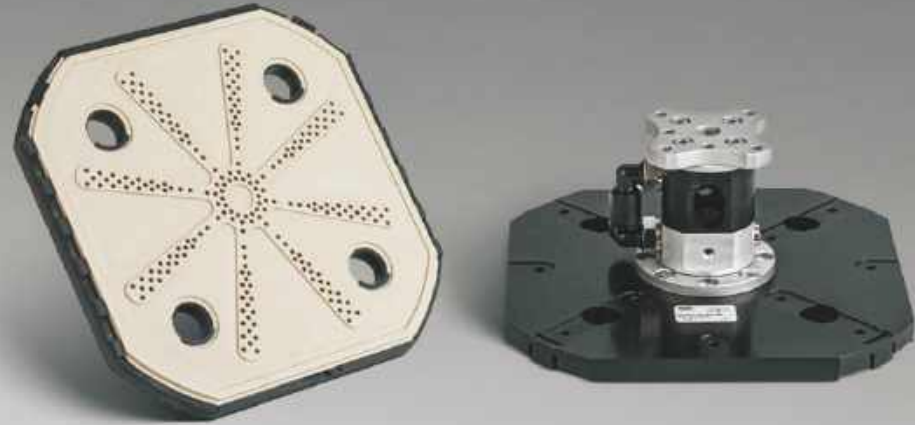
BF. 2. 26 X 42 - 20. S. AW. L1

① 吸盘形状 Sucker shape		② 吸盘规格 Specification of suction tool		③ 缓冲行程 Cushion stroke		④ 材质 Material		⑤ 阀体类型 Body type	
代号 Code	形状 Shape	代号 Code	规格 Specification	代号 Code	行程 Stroke	代号 Code	材料/颜色 Material/color	代号 Code	形状 Shape
1	单面吸盘 Stroke 1-way suction cup	15X35	单面吸 (仅适用于双吸盘系统)	20	20mm	S	硅胶 / 绿色 Silicone (green)	AW	止回型 Check type
2	双面吸盘 Double suction cup	26X42							

BMK series

Integrated vacuum system-Photovoltaic type

集成式真空系统-光伏型



光伏吸盘是采用气动操作的专用夹具，带有集成式真空发生装置。它们非常适用于搬运敏感零件，尤其是光伏行业专用组件（如硅片和电池）。由于体积流量较高，真空度适中，光伏吸盘非常适用于这类敏感的应用领域。

Photovoltaic chucks are pneumatically operated special fixtures with integrated vacuum generators. They are ideal for handling sensitive parts, especially for PV industry-specific components such as silicon wafers and batteries. Due to the high volumetric flow rate and moderate vacuum, photovoltaic chucks are ideal for this type of sensitive application.

型号表示方式 Model representation

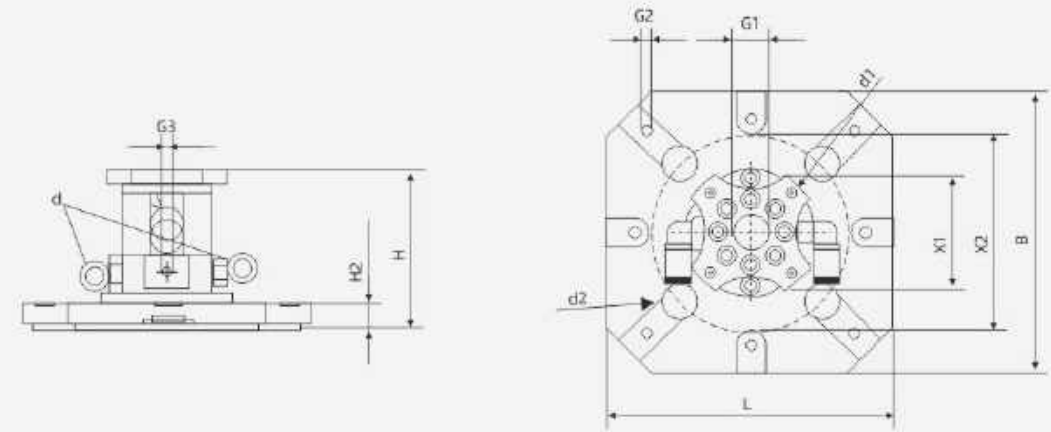
BMK - 115×115

① 吸盘大小
Suction cup size

直径 Diameter
115X115
146X146

尺寸图表 Dimensional chart

BMK



L	d	D1	D2	G1	G2	G3	H	H2	B	X1	X2
146mm	6mm	4.5mm	14mm	G1/8" -F	M4-IG	M4-IG	65mm	10.5mm	146mm	46mm	110.5mm
115mm	6mm	4.5mm	14mm	G1/8" -F	M4-IG	M4-IG	65mm	10.5mm	115mm	46mm	80.6mm

光伏吸盘的优点 Advantages of photovoltaic chucks

- 快速和精确的搬运
- 很短的搬运循环时间 (< 1秒)
- 很高的搬运效率和元件质量
- 较高的体积流量，较低的耗气量
- 集成式真空发生装置含有排气功能
- 吸入空气的可控排放（可选）
- Fast and precise handling
- Very short handling cycle time (<1 second)
- High handling efficiency and component quality
- Higher volume flow, lower air consumption
- Integrated vacuum generator with exhaust function
- Controlled emissions of inhaled air (optional)

光伏吸盘的典型应用领域 Typical application areas for photovoltaic chucks

- 搬运光伏组件
- 搬运电极、分离器和电池
- 搬运敏感元件
- Handling photovoltaic modules
- Carrying electrodes, separators and batteries
- Handling sensitive components

技术数据 Technical data

压力范围（工作压力） Pressure range (working pressure)	大小 Size	类型/排气 Type/caseout	抽速 Pumping speed 立方米/小时 cubic meter / hour	耗气量 Air consumption 立方米/小时 cubic meter / hour	工作温度 Operating temperature	重量 Weight
1.0...3.0巴 1.0... 3.0, right	6	侧面排气 Side exhaust	160...235升/分钟 160... 235 liters/minute	60...120升/分钟 60... 120 liters/minute	℃下 At °C	310克 310 grams

MEMO



真空配件 Vacuum fitting

- 307 • SF 电磁阀 Checkvalve
- 309 • LTL/R 吸盘支架 Suction cup bracket
- 313 • ZP3-T/ZP3-Y 真空剂 Mini
- 319 • ZP3E 吸盘支架 Suction cup bracket
- 323 • SRK/SRKN 吸盘支架 Suction cup bracket
- 325 • VP 吸盘支架 Suction cup bracket
- 331 • VPA/VPT 吸盘支架 Suction cup bracket
- 335 • BVCI/BVCK 无摩擦真空吸盘支架 Dust free low friction self drinking buffer bracket
- 336 • VPCK 无摩擦真空吸盘支架 Dust free low friction self drinking buffer bracket
- 337 • VPG 真空过滤器 Vacuum filter
- 339 • ZFC 真空过滤器 Vacuum filter
- 341 • VFR 真空过滤器 Vacuum filter
- 342 • FH 真空过滤器 Vacuum filter
- 343 • PC 快速接头 Quick connector
- 345 • KP 真空压力开关 Vacuum pressure switch
- 349 • KTDL 真空分离器 Vacuum splitter
- 350 • BK-ST 真空波纹管 Vacuum bellows



SF series

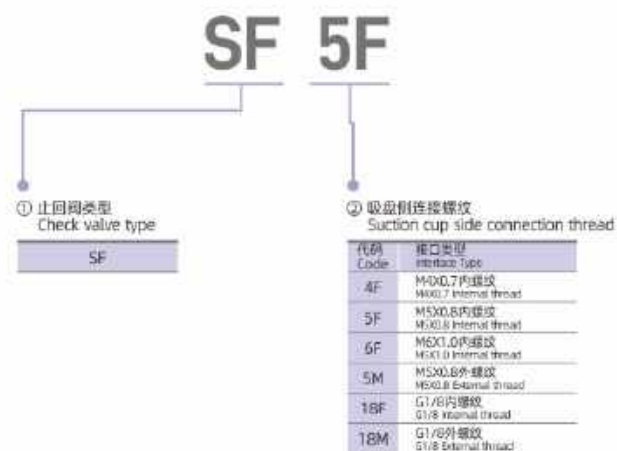
Check valve

止回阀



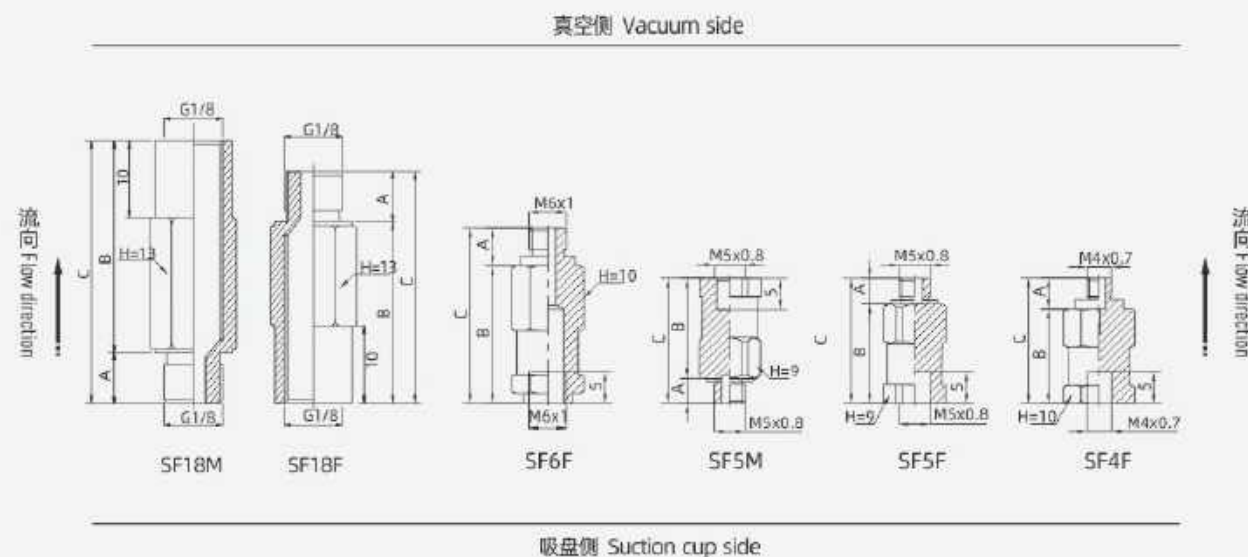
- 关闭不使用的吸盘，保持系统真空。
- 旁路结构可补偿少量泄漏。
- 适用于高流量应用。
- 符合各种普通吸盘。
- Close unused suction cups to maintain system vacuum.
- The bypass structure compensates for a small amount of leakage.
- Also suitable for high flow applications.
- Suitable for all kinds of common suction cups.

型号表示方式 Model representation



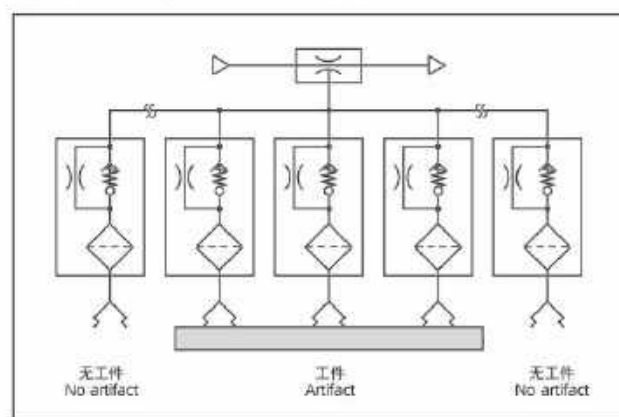
尺寸图表 Dimensional chart

SF



订货代号 Order code	参数 Parameter		
①	A	B	C
止回阀型号 Check valve model			
SF4F	5	15	20
SF5M	4	16	20
SF5F		16	20
SF6F	6	22	28
SF18F	6.5	23.5	30
SF18M		27.5	34

即使没有工件，也可抑制真空压力的降低 Reduces vacuum pressure even without workpieces



一台真空发生器作用多个真空吸盘场合，即使有未吸着状态，亦可抑制真空压力的降低，保持工件。

When a vacuum generator is used to apply a plurality of vacuum chucks, even if there is an unabsorbed state, the reduction of the vacuum pressure can be suppressed, and the workpiece can be held.

性能参数 Performance parameter

型号 Model	-60kPa条件下所需抽吸流量L/min Required suction flow rate L/min at -60 kPa	-80kPa条件下所需抽吸流量L/min Required suction flow rate L/min at -80 kPa	最大吸气流速L/min Maximum inspiratory flow
SF4	5	4	310
SF5	5	4	310
SF6	5	4	310
SF18	7	6	550

LT/LR series

Suction cup bracket

吸盘托架



型号表示方式 Model representation

LT 0220 - 6 - 04

① 托架类型 Bracket type

LT	横向往复 horizontally movable
LTK	横向往复 横向不可回转 horizontally movable lateral non-rotatable
LR	横向往复 横向往复 horizontally movable
LTK	横向往复 横向往复 horizontally movable

② 缓冲器规格 Buffer specifications

0220	吸盘直径2-6通用 Suction cup diameter 2-6 universal
1030A	吸盘直径10-16通用 Suction cup diameter 10-16 universal
1030B	吸盘直径20-32通用 Suction cup diameter 20-32 universal
3060	吸盘直径40-50通用 Suction cup diameter 40-50 universal

③ 行程 Trip

6	适用缓冲器规格(0220) Applicable buffer specifications (0220)
10	适用缓冲器规格(0220, 1030A, 1030B, 3060) Applicable buffer specifications (0220, 1030A, 1030B, 3060)
15	适用缓冲器规格(0220) Applicable buffer specifications (0220)
20	适用缓冲器规格(1030A, 1030B, 3060) Applicable buffer specifications (1030A, 1030B, 3060)
25	适用缓冲器规格(0220) Applicable buffer specifications (0220)
30	适用缓冲器规格(1030A, 1030B, 3060) Applicable buffer specifications (1030A, 1030B, 3060)
40	适用缓冲器规格(1030A, 1030B) Applicable buffer specifications (1030A, 1030B)
50	适用缓冲器规格(1030A, 1030B, 3060) Applicable buffer specifications (1030A, 1030B, 3060)

④ 真空引出口 (仅限于托架类型LR, LTK)
Vacuum outlet (limited to bracket types LR, LTK)

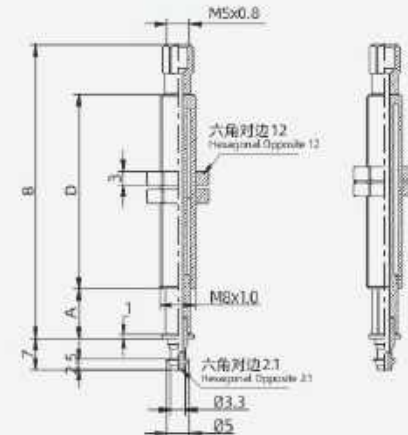
04	Ø4 适用缓冲器规格(0220) Ø4 (Applicable to buffer specifications 0220)
06	Ø6 适用缓冲器规格(1030A, 1030B) Ø6 (Applicable to buffer specifications 1030A and 1030B)
08	Ø8 适用缓冲器规格(3060) Ø8 (Applicable to buffer specifications 3060)

尺寸图表 Dimensional chart

LT

适合吸盘 Suitable for suction cups

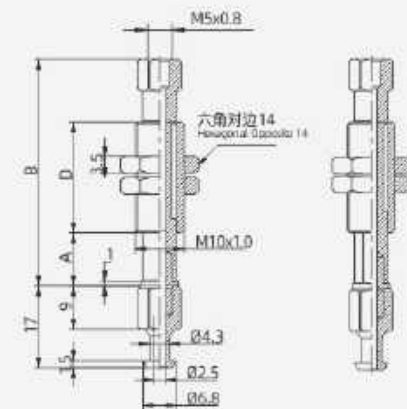
B-ZP02U	-
B-ZP04U	-
B-ZP06U	B-ZP06B
B-ZP08U	B-ZP08B



型号 Model	A	B	D
(LT/LTK) 0220-6	7.5	33.5	15
(LT/LTK) 0220-10	11	65	43
(LT/LTK) 0220-15	16	70	
(LT/LTK) 0220-25	26	80	

适合吸盘 Suitable for suction cups

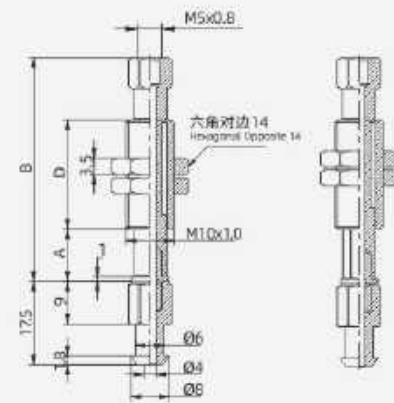
B-ZP10U	B-ZP10C	B-ZP10B
B-ZP13U	B-ZP13C	B-ZP13B
B-ZP16U	B-ZP16C	B-ZP16B



型号 Model	A	B	D
(LT/LTK) 1030A-10	11	47	23
(LT/LTK) 1030A-20	21	85	51
(LT/LTK) 1030A-30	31	95	
(LT/LTK) 1030A-40	41.5	131.5	77
(LT/LTK) 1030A-50	51	141	

适合吸盘 Suitable for suction cups

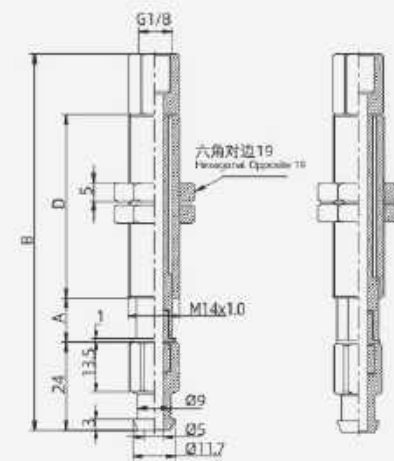
B-ZP20U	B-ZP20C	B-ZP20B
B-ZP25U	B-ZP25C	B-ZP25B
B-ZP32U	B-ZP32C	B-ZP32B



型号 Model	A	B	D
(LT/LTK) 1030B-10	11	47	23
(LT/LTK) 1030B-20	21	85	51
(LT/LTK) 1030B-30	31	95	
(LT/LTK) 1030B-40	41.5	131.5	77
(LT/LTK) 1030B-50	51	141	

适合吸盘 Suitable for suction cups

B-ZP40U	B-ZP40C	B-ZP40B
B-ZP50U	B-ZP50C	B-ZP50B



型号 Model	A	B	D
(LT/LTK) 3060-10	12	78.5	50
(LT/LTK) 3060-20	22.5	89	
(LT/LTK) 3060-30	32	98.5	75
(LT/LTK) 3060-50	51.5	143	

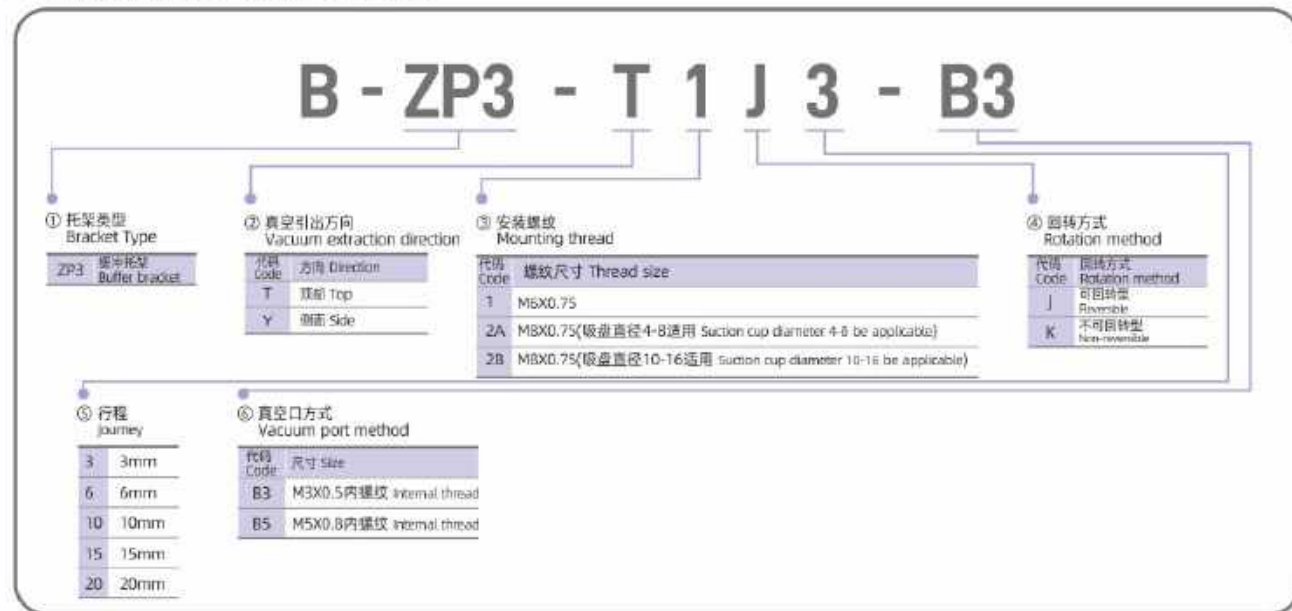
ZP3-T/ZP3-Y series

Mini Buffer Bracket

迷你型缓冲托架



型号表示方式 Model representation



尺寸图表 Dimensional chart

ZP3

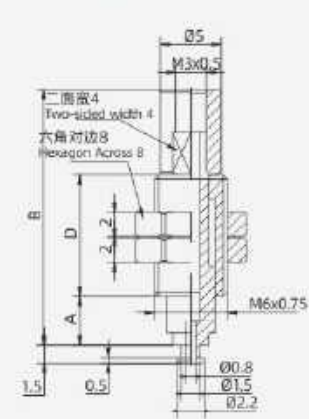
适合吸盘型号 Suitable for suction cup models
B-ZP3-015U B-ZP3-02U B-ZP3-035U



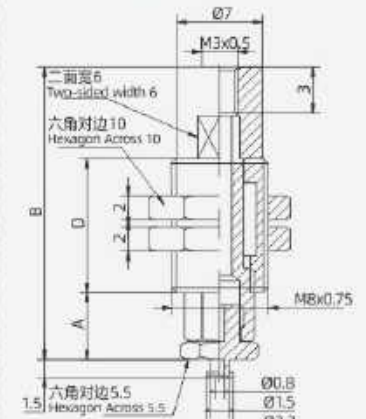
型号 Model	A	B	D
B-ZP3-T1J-B3	4	21	10
B-ZP3-T1J6-B3	7.5	28.5	14
B-ZP3-T1K3-B3	5.5	24	11.5
B-ZP3-T1K6-B3	8	30	14.5

注：图中所有尺寸均为第一视角
Perspective standard: the first perspective

B-ZP3-T1J-B3



B-ZP3-T1K-B3



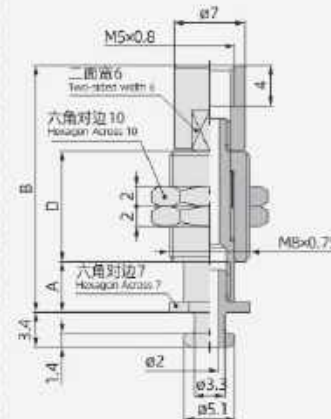
适合吸盘型号 Suitable for suction cup models
B-ZP3-04UM B-ZP3-06UM B-ZP3-08UM
B-ZP3-04B B-ZP3-06B B-ZP3-08B



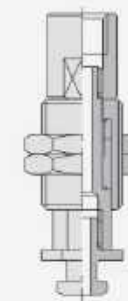
型号 Model	A	B	D
B-ZP3-T2A-3-B5	5	24.5	11
B-ZP3-T2A-6-B5	8	31	14.5
B-ZP3-T2A-10-B5	12	41	20.5
B-ZP3-T2A-15-B5	30.5	49	-
B-ZP3-T2A-20-B5	38	56.5	-

注：表中所有尺寸均为第一视角
Note: All dimensions in the table are in the first perspective.

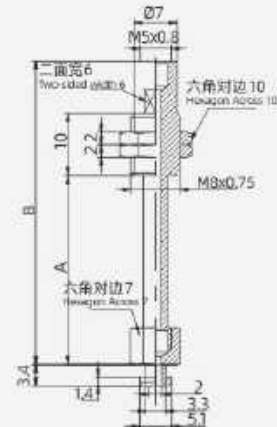
B-ZP3-T2AJ-B5



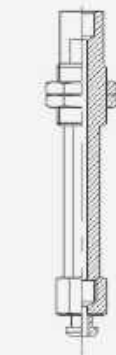
B-ZP3-T2AK-B5



B-ZP3-T2AJ-B5



B-ZP3-T2AK-B5



注：图中所有尺寸均为第一视角
Perspective standard: the first perspective

尺寸图表 Dimensional chart

ZP3

适合吸盘型号 Suitable for suction cup models

B-ZP3-10UM	B-ZP3-13UM	B-ZP3-16UM
B-ZP3-10B	B-ZP3-13B	B-ZP3-16B



型号 Model	A	B	D
B-ZP3-T2B \diamond 3-B5	5	24.5	11
B-ZP3-T2B \diamond 6-B5	8	31	14.5
B-ZP3-T2B \diamond 10-B5	12	41	20.5
B-ZP3-T2B \diamond 15-B5	30.5	49	-
B-ZP3-T2B \diamond 20-B5	38	56.5	-

注1 表中 \diamond 表示缓冲规格 [JK].
Note1 \diamond in the table indicates buffer specifications [JK].

视图标准: 第一视角
Respective standard: the first perspective

适合吸盘型号 Suitable for suction cup models

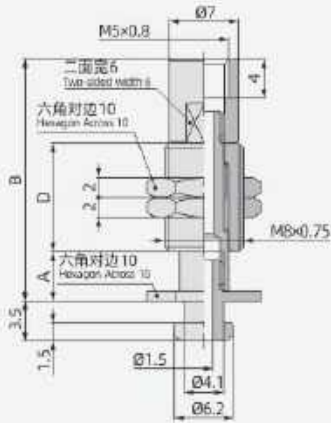
B-ZP3-01SU	B-ZP3-02U	B-ZP3-03SU
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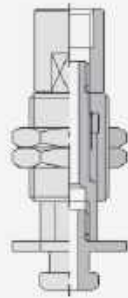
型号 Model	A	B	D
B-ZP3-Y1J3-B3	14	27	10
B-ZP3-Y1J5-B3	17	34	14
B-ZP3-Y1K3-B3	14	31	11
B-ZP3-Y1K5-B3	17	37.5	14.5

视图标准: 第一视角
Respective standard: the first perspective

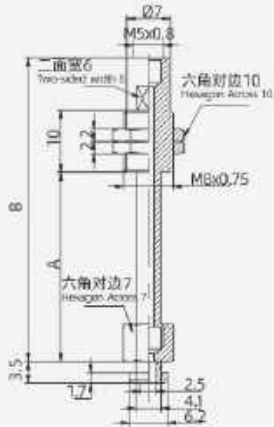
B-ZP3-T2BJ \square -B5



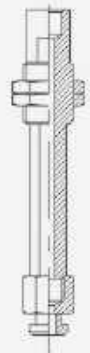
B-ZP3-T2BK \square -B5



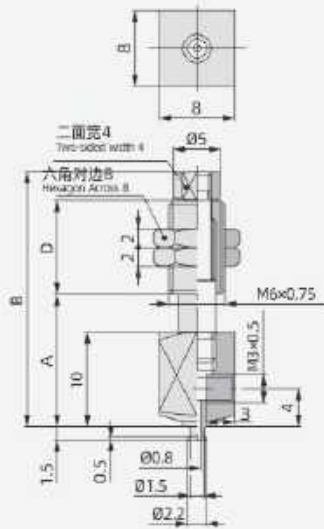
B-ZP3-T2BJ \square -B5



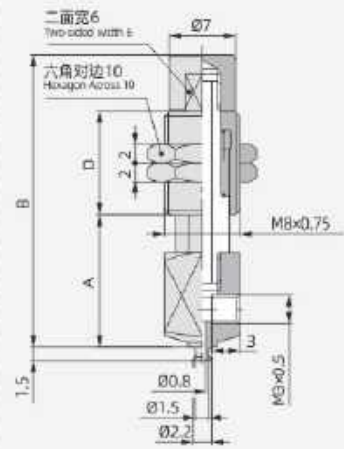
B-ZP3-T2BK \square -B5



B-ZP3-Y1J \square -B3



B-ZP3-Y1K \square -B3



尺寸图表 Dimensional chart

ZP3

适合吸盘型号 Suitable for suction cup models

B-ZP3-04LIM	B-ZP3-06LIM	B-ZP3-08LIM
B-ZP3-04B	B-ZP3-06B	B-ZP3-08B

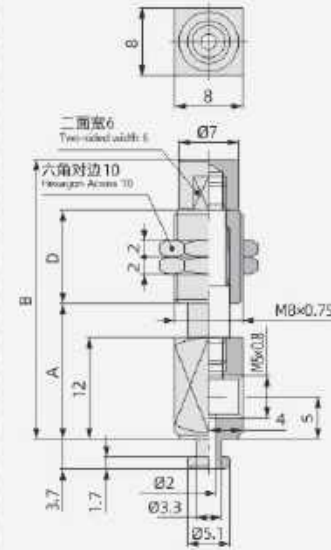


型号 Model	A	B	D
B-ZP3-Y2A \diamond 3-B5	16.5	34	11
B-ZP3-Y2A \diamond 6-B5	19	40	14.5
B-ZP3-Y2A \diamond 10-B5	23	50	20.5
B-ZP3-Y2A \diamond 15-B5	36.5	53	-
B-ZP3-Y2A \diamond 20-B5	44	60.5	-

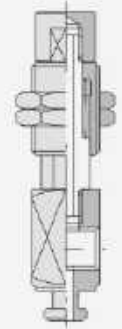
注1 表中 \diamond 表示缓冲规格 [JK].
Note1 \diamond in the table indicates buffer specifications [JK].

视图标准: 第一视角
Respective standard: the first perspective

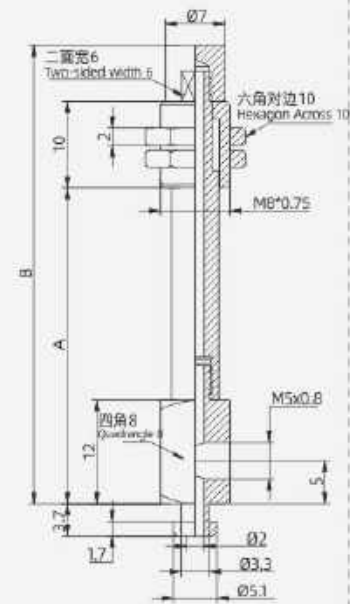
B-ZP3-Y2AJ \square -B5



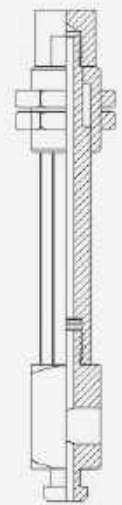
B-ZP3-Y2AK \square -B5



B-ZP3-Y2AJ \square -B5



B-ZP3-Y2AK \square -B5



视图标准: 第一视角
Respective standard: the first perspective

ZP3E series

Suction cup bracket

吸盘托架



型号表示方式 Model representation

B - ZP3E - T 1 JB 10

① 托架类型
Bracket type

ZP3E	缓冲托架 Buffer bracket
------	------------------------

② 真空引出方向
Vacuum extraction direction

T	横向(连接器头不可摆动) Horizontal (connector head cannot swing)
TF	纵向(连接器头可摆动) Vertical (connector head can swing)

③ 连接器规格
Connector specifications

1
2
3
4
5
6

④ 回转方式
Rotation method

JB	无防止回转, 带导向套 No anti rotation, with guide sleeve
----	----------------------------------------------------

⑤ 行程
Trip

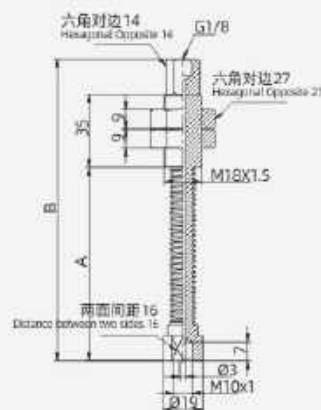
10	10mm
30	30mm
50	50mm

ZP3E

尺寸图表 Dimensional chart

适合吸盘 Suitable for suction cups

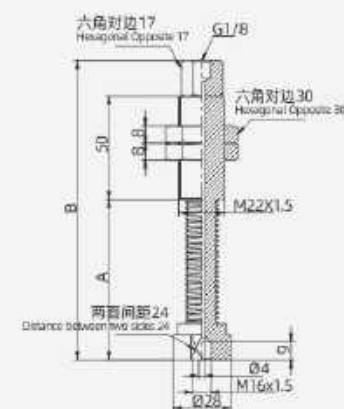
B-ZP3E-32UM	B-ZP3E-32BM
B-ZP3E-40UM	B-ZP3E-40BM
B-ZP3E-50UM	B-ZP3E-50BM



型号 Model	A	B
B-ZP3E-T1JB10	47.5	99.5
B-ZP3E-T1JB30	72.5	124.5
B-ZP3E-T1JB50	92.5	144.5

适合吸盘 Suitable for suction cups

B-ZP3E-63UM	B-ZP3E-63BM
B-ZP3E-80UM	B-ZP3E-80BM
B-ZP3E-100UM	B-ZP3E-100BM
B-ZP3E-125UM	B-ZP3E-125BM



型号 Model	A	B
B-ZP3E-T2JB10	58	128
B-ZP3E-T2JB30	83	153
B-ZP3E-T2JB50	103	173

适合吸盘 Suitable for suction cups

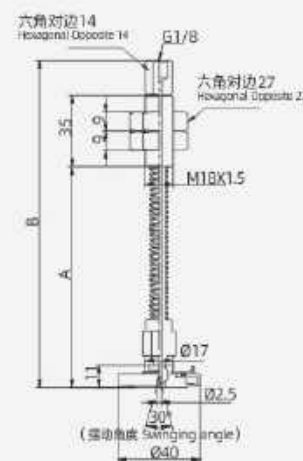
B-ZP3E-32UM	B-ZP3E-32BM
B-ZP3E-40UM	B-ZP3E-40BM



型号 Model	A	B
B-ZP3E-TF1JB10	63	115
B-ZP3E-TF1JB30	88	140
B-ZP3E-TF1JB50	108	160

适合吸盘 Suitable for suction cups

B-ZP3E-50UM	B-ZP3E-50BM
-------------	-------------



型号 Model	A	B
B-ZP3E-TF2JB10	63	115
B-ZP3E-TF2JB30	88	140
B-ZP3E-TF2JB50	108	160

SRK/SRKN series

Suction cup bracket

吸盘托架



型号表示方式 Model representation

SRK 10

① 托架类型
Bracket type

SRK	缓冲托架 Buffer bracket
SRKN	缓冲托架 Buffer bracket

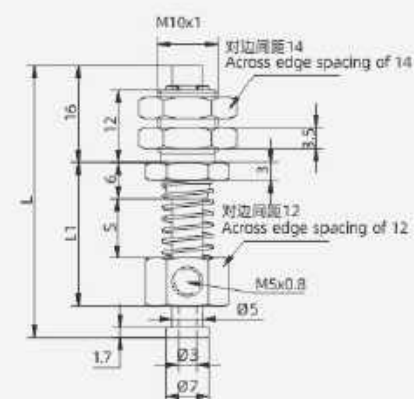
② 缓冲器规格
Buffer specifications

10	适用SRP6-12, SRPF-12通用
1010	Universal suction cups SRP6-12 and SRPF12
1015	
20	适用SRP15-40, SRPF-20通用
2010	Universal suction cups SRP15-40 and SRPF20
2015	

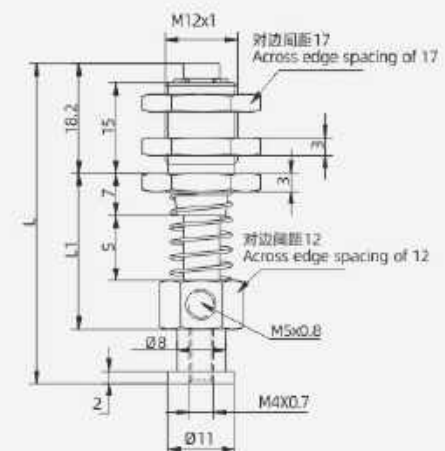
尺寸图表 Dimensional chart

SRK

SRK10
1010
1015

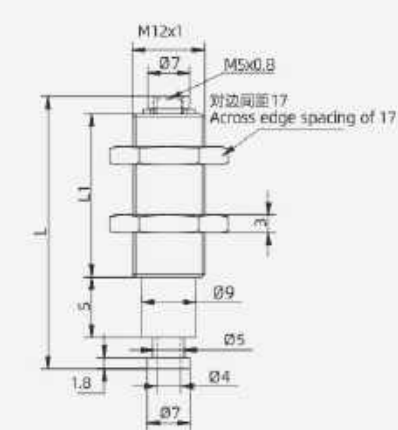


SRK20
2010
2015

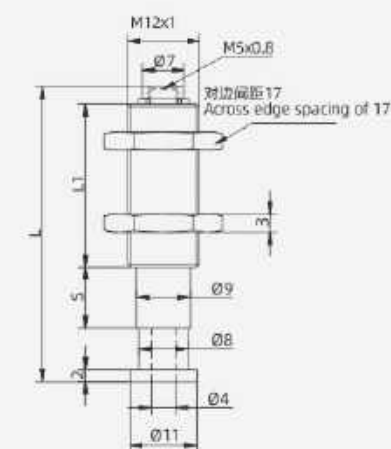


类型 type	规格 Specifications	行程 Stroke S	L	L1	弹簧 Spring		适用吸盘 Applicable suction cups
					弹簧常数 Spring constant	最大负荷 Maximum load	
SRK	10	5	40	19	0.030kgf	0.55kgf	SRP6-12 SRPF12
	1010	10	45	24			
	1015	15	50	29			
	20	5.8	48	20.8			
	2010	10.8	53	25.8			
2015	15.8	58	30.8	0.027kgf	SRP15-40 SRPF20		

SRKN10
1010
1015



SRKN20
2010
2015



类型 type	规格 Specifications	行程 Stroke S	L	L1	弹簧 Spring		适用吸盘 Applicable suction cups
					弹簧常数 Spring constant	最大负荷 Maximum load	
SRKN	10	5	35	22	0.030kgf	0.55kgf	SRP6-12 SRPF12
	1010	10	45	27			
	1015	15	55	32			
	20	5	39	22			
	2010	10	49	27			
2015	15	59	32	0.027kgf	SRP15-40 SRPF20		

BVC/BVCK series

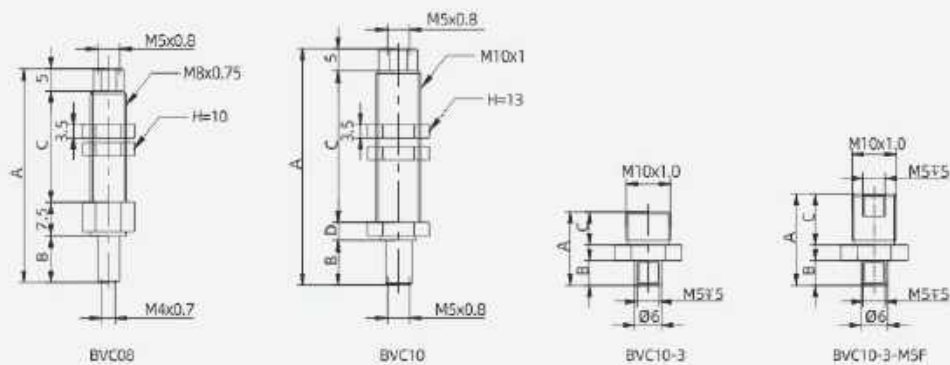
Dust free low friction self shrinking buffer bracket

无尘低摩擦自缩缓冲支架



尺寸图表 Dimensional chart

BVC/BVCK



订购代号 Order code			参数 Parameter				
①	②	③	A	B	C	D	
安装类型 Installation type	回转方式 Swing method	行程 Stroke					
BVC08-5	可回转 Rotatable	5	42.5	5.5	24.5	-	
BVC08-10		10	47.5	10.5			
BVC08-15		15	52	15			
BVC10-3		3	16.5	5.5	7.5		
BVC10-3-MSF			20.5		11.5		
BVC10-5	不可回转 Non rotatable	5	48	5	34	4	
BVC10-10		10	53	10			
BVC10-15		15	58	15			
BVCK08-5		5	42.5	5.5	24.5		
BVCK08-10			10				47.5
BVCK08-15	15		52			15	
BVCK10-5	5	48	5	31	7		
BVCK10-10		10				53	10
BVCK10-15		15				58	15

VPCK series

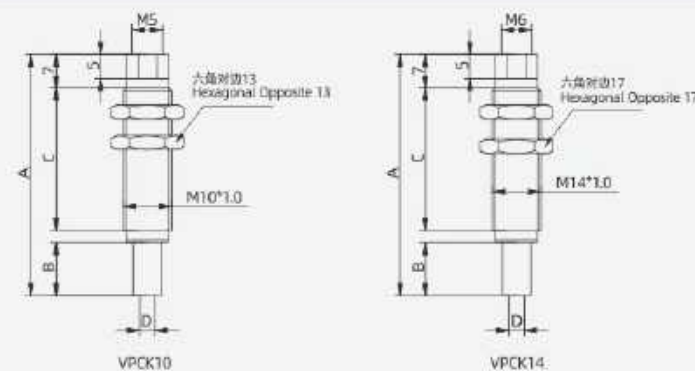
Dust free low friction self shrinking buffer bracket

无尘低摩擦自缩缓冲支架



尺寸图表 Dimensional chart

VPCK



订购代号 Order code			参数 Parameter							
①	②	③	A	B	C	D				
安装类型 Installation type	回转方式 Swing method	行程 Stroke								
VPCK10-5-MAF	不可回转 Non rotatable	5	40	6	24.5	M4x0.7				
VPCK10-5-MSF						M5x0.8				
VPCK10-10-MAF		10	50	11	29.5	M4x0.7				
VPCK10-10-MSF						M5x0.8				
VPCK10-15-MAF						15	60	16	34.5	M4x0.7
VPCK10-15-MSF		M5x0.8								
VPCK14-5-MSF		5	42.5	6	26.5	M5x0.8				
VPCK14-5-M6F						M6x1				
VPCK14-10-MSF						10	52.5	11	31.5	M5x0.8
VPCK14-10-M6F										M6x1
VPCK14-15-MSF	15					62.5	16	36.5	M5x0.8	
VPCK14-15-M6F		M6x1								

VPG series

Dust free and low friction direct installation bracket

无尘低摩擦直接安装型支架



- 小型支架安装型吸盘支架，大幅度减小安装占用空间；
- 特殊衬套结构，摩擦更低，运动更顺畅，隔绝金属间摩擦，达到无尘效果；
- 不含铜，满足特殊行业需求。
- Small bracket installation type suction cup bracket, greatly reducing installation space occupation;
- Special lining structure, lower friction, smoother movement, isolates metal to metal friction, achieving dust-free effect;
- Copper free, meeting the needs of special industries.

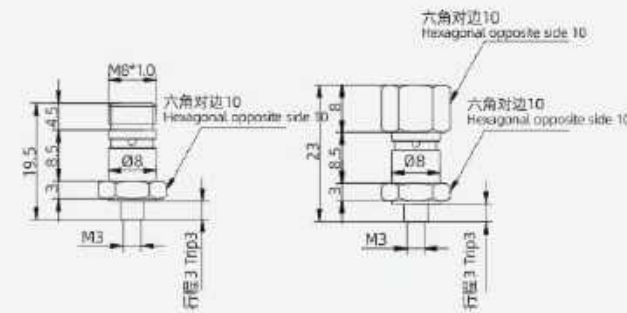
型号表示方式 Model representation

VPG08 - 3 - C - A

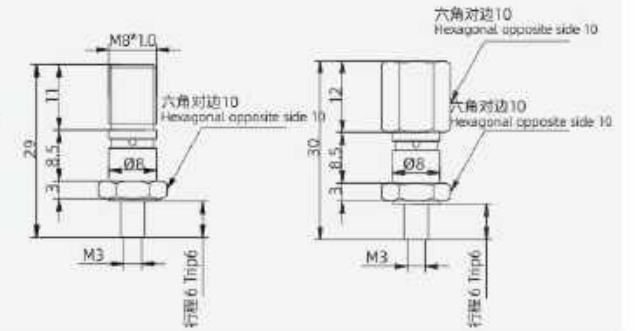


尺寸图表 Dimensional chart

3行程 3 trip



6行程 6 trip



选配接头 Optional connector

接头类型A joint type A

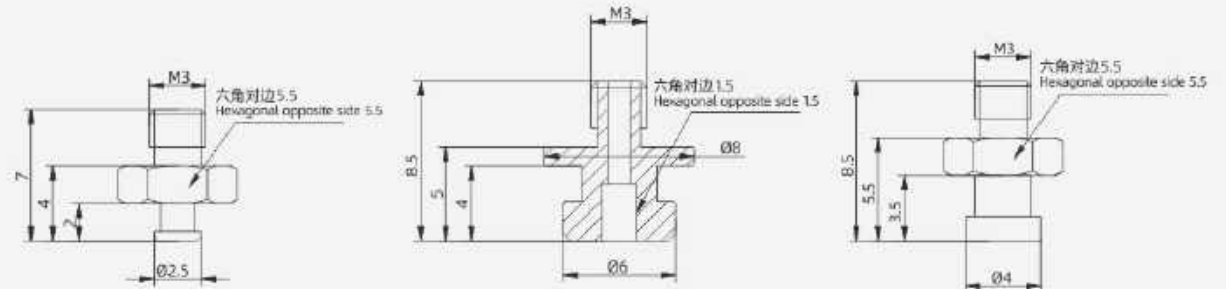
适配吸盘 Adapted suction cups:
VP0.7RM-VP4RM

接头类型B joint type B

适配吸盘 Adapted suction cups:
B-ZP2-10-15MT
B-ZP2-06-15MU
B-ZP2-06-08MB

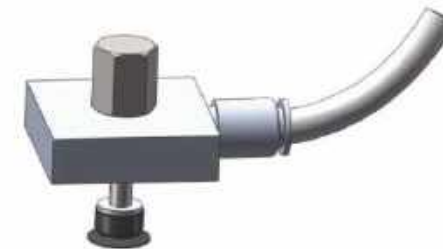
接头类型C joint type C

适配吸盘 Adapted suction cups:
B-VP08-20P

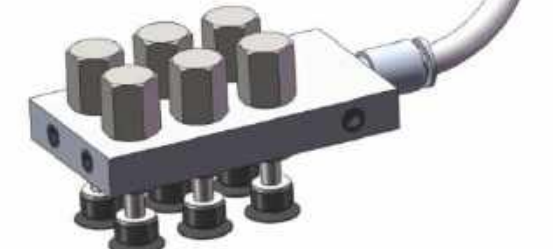


支架应用示意图 Schematic diagram of bracket application

单体使用 Individual use



多个配合使用 Multiple combinations for use



ZFC series

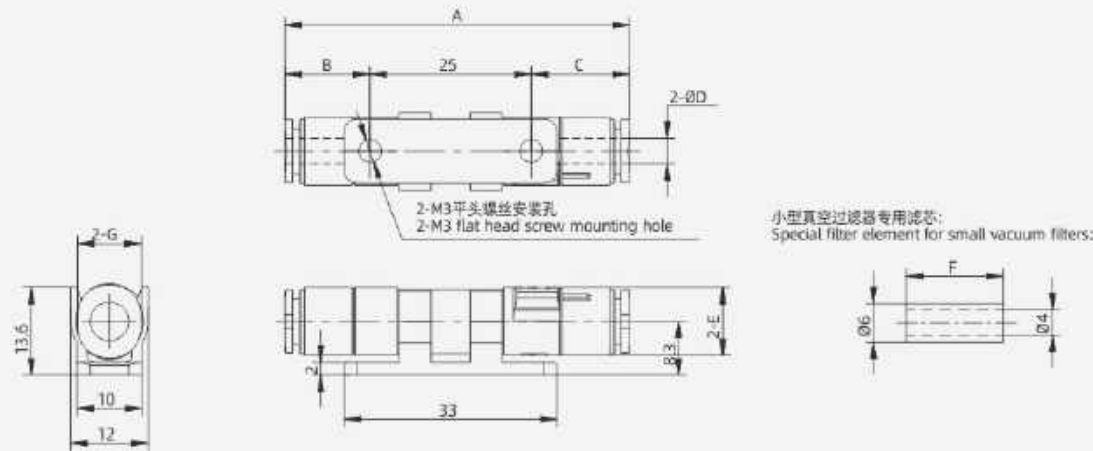
Vacuum filter

真空过滤器



- 体积小、重量轻;
 - 快速接头式，配置方便快捷;
 - 滤芯可以更换;
 - 采用快捷的拆装结构，不需工具便可更换滤芯;
 - 直通型，进口与出口在同一线上，安装方便;
 - 标准型附带托架;
 - 将真空过滤器装在真空发生器与真空吸盘之间，除去由吸盘吸入的灰尘，以防真空发生器造成故障。
- Small size and light weight;
 - Quick connector type, convenient and quick to configure;
 - The filter element can be replaced;
 - Quick and easy assembly and disassembly structure, the filter can be replaced without tools;
 - Straight-through type, imported and exported on the same line, easy to install;
 - Standard type with bracket;
 - A vacuum filter is placed between the vacuum generator and the vacuum chuck to remove dust sucked from the suction cup to prevent malfunction of the vacuum generator.

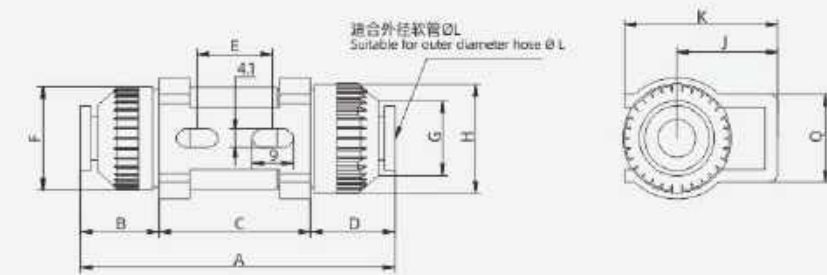
尺寸图表 Dimensional chart



订购代号 Order code				参数 Parameter					
① 型号 Model	② 滤芯长度 Filter element length F	③ 过滤面积 Filter area cm ²	④ 重量 Weight g	A	B	C	D	E	G
ZFC50-04B	15	2.8	5.1	48.5	10.8	12.7	4	10	9.8
	25	4.7	5.4	58.5	16.8	16.7			
ZFC50-06B	15	2.8	6	53.4	13.2	15.2	6	10.5	11.8
	25	4.7	6.4	63.4	19.2	19.2			

尺寸图表 Dimensional chart

ZFC



订购代号 Order code		参数 Parameter											
① 型号 Model	② 流量 Flow min(ANR)	A	B	C	D	E	F	G	H	Q	J	K	L
ZFC100-04B	10	54.5	9.6	30	13.9	13.4	18	11.6	19.5	18	20	29	Ø4
ZFC100-06B		54.5	9.6	30	13.9	13.4	18	11.6	19.5	18	20	29	Ø6
ZFC200-06B	30	68.5	18	33	17.5	16.5	23	12	23.1	19.2	22	33.5	Ø6
ZFC200-08B	50	68.5	18	33	17.5	16.5	22.5	14	23.1	19.2	22	33.5	Ø8
ZFC300-10B	60	74	20	33	21	16.5	22.5	18	23.1	19.2	22	33.5	10

VFR series

Vacuum filter

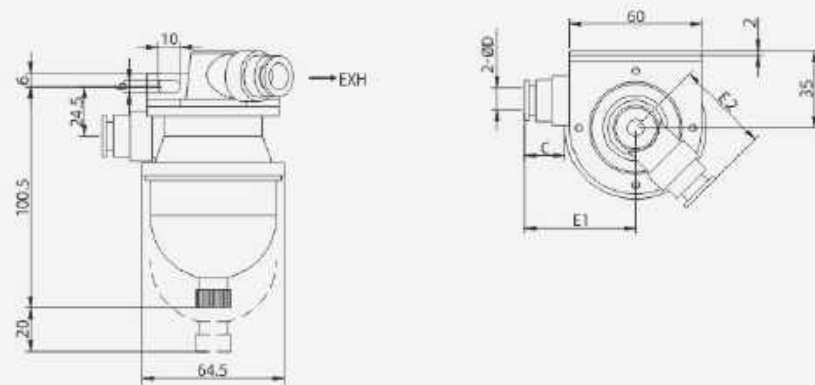
真空过滤器



- 将真空过滤器装在真空发生器与真空吸盘之间，除去由吸盘吸入的灰尘，以防真空发生器造成故障。
- A vacuum filter is placed between the vacuum generator and the vacuum chuck to remove dust sucked from the suction cup to prevent malfunction of the vacuum generator.

尺寸图表 Dimensional chart

VFR



订购代号 Order code		参数 Parameter				
① 型号 Model	② 过滤面积 Filtration area Cm ²	适用外径 Suitable outer diameter ØD	C	E1	E2	重量 Weight g
VFR20-06-06	20: 20	6	17.0	48.0	38.0	232.0
VFR20-08-08		8	18.5	48.0	38.0	230.5
VFR20-10-10		10	21.0	48.5	38.5	224.5
VFR20-12-12		12	23.5	48.0	38.0	217.0
VFR20-16-16		16	25.0	55.5	43.5	240.0

FH series

Yaw fixing seat

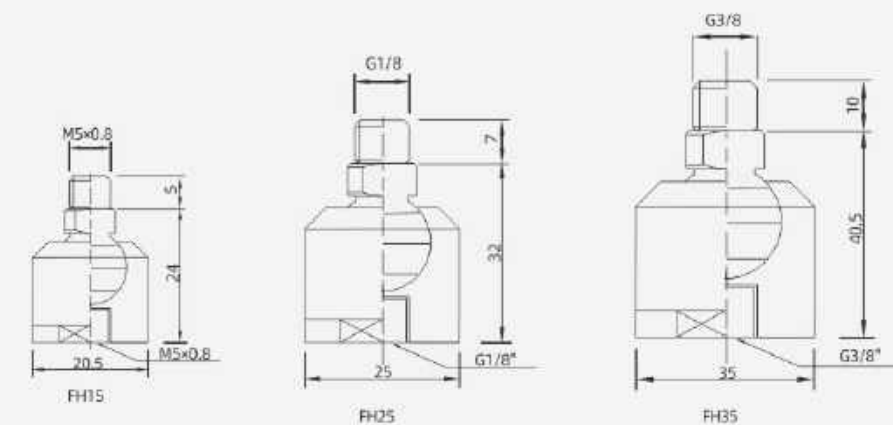
偏摆固定座



- 适用于有角度或倾斜的工件；
 - 安装在吸盘与金具（不偏摆型）之间，使吸盘依据吸附的工件表面情况自由倾斜；
 - 偏摆角度30度；
 - 易于更换吸盘部份；
 - FH25：限于吸盘径 $\Phi 30 \sim \Phi 90$ ；
 - FH35：限于吸盘径 $\Phi 90 \sim \Phi 150$ 。
- Suitable for angled or inclined workpieces;
 - Installed between the suction cup and the fitting (not yaw type), so that the suction cup is freely inclined according to the surface condition of the workpiece being adsorbed;
 - The yaw angle is 30 degrees;
 - Easy to replace the suction cup part;
 - FH25: limited to suction cup diameter $\Phi 30 \sim \Phi 90$;
 - FH35: Limited to suction cup diameter $\Phi 90 \sim \Phi 150$.

尺寸图表 Dimensional chart

FH



PC series

Quick connector

快速接头



- 超小型产品，比普通型号体积小40%，外形尺寸小20%，是小型化的接头。
- 由于表面有镀铬处理，所以耐腐蚀性突出。
- The ultra-small product is 40% smaller than the normal model and 20% smaller in size. It is a small-sized connector.
- Since the surface is chrome-plated, the corrosion resistance is outstanding.

尺寸图表 Dimensional chart

POC

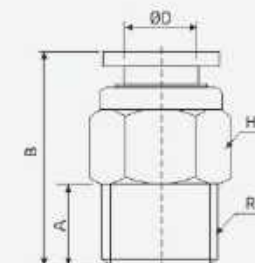


参数 Parameter

型号 Model ØD-T	ØD	R	A	B	ØP	内六角 Inner hexagon
POC4-M3C	4	M3	3	16.5	8	-
POC4-M5C	4	M5	3.5	17	8	2
POC4-M6C	4	M6	4	17.5	8	2.5
POC4-M6C	6	M5	3.5	18.1	10	2
POC6-M6C	6	M6	4	18.5	10	2.5
POC6-Ø1C	6	R1/8	7.5	19.2	10	4

尺寸图表 Dimensional chart

PC

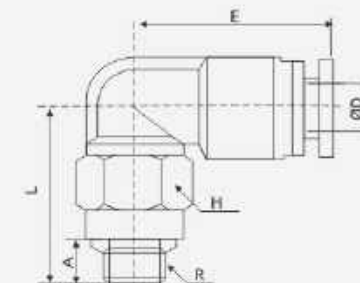


参数 Parameter

型号 Model ØD-T	ØD	R	A	B	H	内六角 Inner hexagon
PC4-M5	4	M5	4	21.2	10	2
PC6-M5	6	M5	4	22.3	12	2
PC6-Ø1	6	R1/8	7.5	20.8	12	4
PC6-Ø2	6	R1/4	9.5	22.6	14	4
PC8-Ø1	8	R1/8	7.6	27	14	5
PC8-Ø2	8	R1/4	9.5	24.6	14	6
PC8-Ø3	8	R3/8	10.5	22.1	17	6
PC10-Ø3	10	R3/8	10.5	26.4	17	8
PC10-Ø4	10	R1/2	13.5	26.8	21	8

尺寸图表 Dimensional chart

PL



参数 Parameter

型号 Model ØD-T	ØD	R	A	E	L	H
PL4-M3C	4	M3	3	15.7	13.9	8
PL4-M5C	4	M5	3.5	15.7	14.4	8
PL4-M6C	4	M6	4	15.7	14.9	8
PL6-M5C	6	M5	3.5	16.4	16	8
PL6-M6C	6	M6	4	16.4	16.5	8
PL6-Ø1C	6	R1/8	7.6	16.4	17.6	10

KP series

Vacuum pressure switch

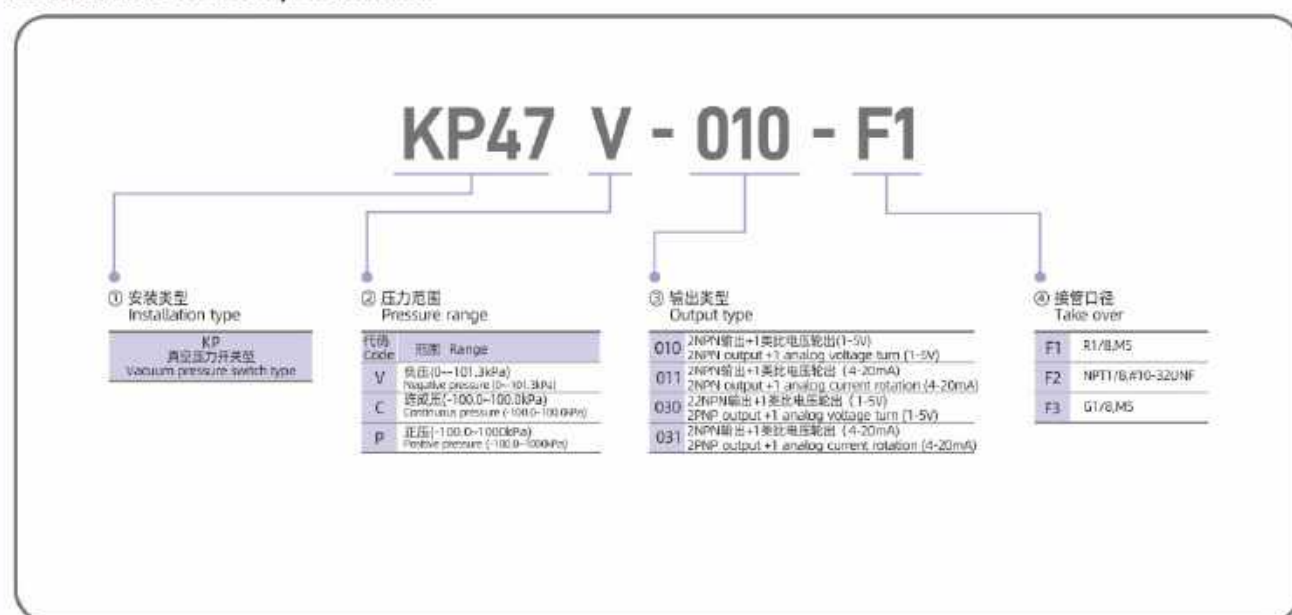
真空压力开关



- 双色数位显示，易于判读；
- 使用压力范围：负压（0~101.3 kPa）；
- 压力单位可变换：Kpa, kgf/cm², bar, psi, mmHg；
- 类比输出：1-5V或4-20mA；
- 重复精度高：< ±0.2% F.S.；
- 应差可调整设定。

- Two-color digital display, easy to interpret;
- Operating pressure range: negative pressure (0~101.3 kPa);
- The pressure unit can be changed: Kpa, kgf/cm², bar, psi, mmHg;
- Analog output: 1-5V or 4-20mA;
- High repeatability: < ±0.2% F.S.;
- The difference can be adjusted.

型号表示方式 Model representation



面板说明 Panel description



- It is forbidden to use corrosive and flammable gases or any liquid.
- Please use it within the rated pressure range in the specification sheet. If the supplied pressure exceeds the maximum withstand voltage, the product will be damaged, resulting in abnormal function.
- When installing this product, do not hit it hard or drop it from a high place. Even if the appearance is not damaged, it may cause malfunction due to internal parts damage.
- When connecting this product to the circuit control system, the

使用本产品应注意事项 Precautions when using this product

- 禁止使用于腐蚀性及易燃性的气体或任何液体。
- 请在规格表内的额定压力范围内使用，若供给之压力超过最大耐压会使本产品损坏，导致功能异常。
- 装设本产品时，请勿用力撞击或从高处掉落，即使外观未受损害也可能因为内部零件损坏而导致功能异常。
- 在连接本产品于电路控制系统时，应先关掉电源，因为错误的连接或短路会产品损坏。
- 本产品请勿使用在有消雾气或油雾的环境中。
- 本系列街道口并未有防爆验证，请勿使用于空气中含有爆炸性气体或粉尘环境中。
- 不可将连接本产品的导线与电源母或其他高压电线捆绑在一起，以避免杂讯的干扰，而影响本产品的功能。
- power should be turned off first, because the wrong connection or short circuit will damage the product.
- Do not use this product in an environment where there is gas or oil mist.
- This series of street outlets is not verified by explosion-proof. Do not use it in an air containing explosive gas or dust.
- Do not bundle the wires that connect this product with the power thumb or other high-voltage wires to avoid Noise level interference and affect the function of this product.

性能参数 Performance parameter

型号 Model	KP47C-□-□ (连续压 Continuous pressure)	KP47V-□-□ (负压 Negative pressure)	KP47P-□-□ (正压 Positive Pressure)
额定压力范围 Rated pressure range	-100.0~100.0kPa	0.0~101.3 kPa	0.0~101.3 kPa
设定压力范围 Set pressure range	-101.0~101.0kPa	10.0~101.3 kPa	10.0~101.3 kPa
耐压力 Pressure resistance	300kPa	300kPa	300kPa
压力单位设定精度 Pressure unit setting accuracy	kPa	0.1	0.1
	MPa	-	-
	kgf/cm ²	0.001	0.001
	bar	0.001	0.001
	psi	0.01	0.01
	inHg	0.1	0.1
	mmHg	1	1
适用气体 Applicable gas	空气, 非腐蚀性, 不可燃性 Air, non-corrosive, non-flammable		
电源电压 Voltage	12 to 24V DC ±10%, 纹波峰值 10%以下 12 to 24V DC ±10%, chopping peak value below 10%		
消费电流 Consumption current	≤40mA以下(无负载时) ≤40mA or less (when no load is applied)		
开关输出 Switch output	2NPN输出 2nnp output	2NPN输出 2nnp output	
	最大负载电流: 125mA Maximum load current: 125mA	最大负载电流: 125mA Maximum load current: 125mA	
	最大供应电压: 30VDC Maximum supply voltage: 30VDC	最大供应电压: 24VDC Maximum supply voltage: 24VDC	
	内部降压: 1.5V以下 Internal step-down: below 1.5V	内部降压: 1.5V以下 Internal step-down: below 1.5V	
重复精度 Repeat accuracy	±0.2%F.S.±1digit以下		
反差 Contrast	单点设定模式 Single point setting mode	可调 Adjustable	
	应差模式 Mode of balance	可调 Adjustable	
窗口比较模式 Window comparison mode			
反应时间 The reaction time	≤2.5ms (预防误东芝功能: 25ms, 100ms, 250ms, 500ms, 1000ms, 1500ms 可选择) Acuties were 2.5 ms (prevention by Toshiba function: 25 ms, 100 ms and 250 ms and 500 ms and 1000 ms and 1500 ms can choose)		
输出短路保护 Output short circuit protection	有 There are		
显示 According to	3色(红/绿/橙)显示(取样率: 5次/秒) 3 color (red/green/orange) display (sampling rate: 5 times/second)		
显示精度 Display precision	≤±2%F.S.±1digit (在周围温度: 25±3°C)		≤±2%F.S.±1digit (at ambient temperature: 25±3°C)
动作指示灯 Action display lamp	橙色(1&2指示灯) OUT1/OUT2 Orange (1&2 indicator light) OUT1/OUT2		

KTDL series

Vacuum splitter

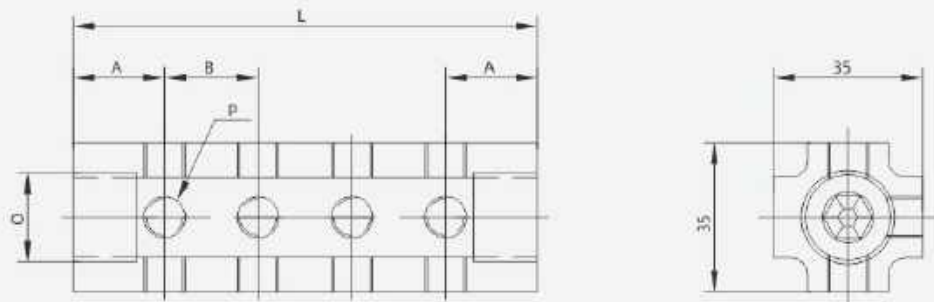
真空分流器



- 当真空管路中用多个吸盘时保持软管尺寸;
- 能多个连接, 最终集成一个大的BSP连接;
- 分配器体积小, 且可根据数量配置以满足大多数的应用要求;
- 每个分配器都是由轻质的铝合金挂靠且自带一端插入的安装支架。
- Maintain the hose size when multiple suction cups are used in the vacuum line;
- Can be connected multiple times and eventually aggregate into a large BSP connection;
- The dispensers are small and can be configured to meet most application requirements;
- Each dispenser is a mounting bracket that is hooked by a lightweight aluminum alloy and has one end inserted.

尺寸图表 Dimensional chart

KTDL



参数 Parameter

型号 Model	供给口 Supply port Ø	分流口 Split port P	A	B	分流口数量 Number of diverters N	L
KTDL38.18×n	G3/8	G1/8	21.5	17	自定义所需分流口数量 Customize the required number of ports	≈43+B*n
KTDL12.18×n	G1/2			22		
KTDL12.14×n	G1/2	G1/4				

BK-SF series

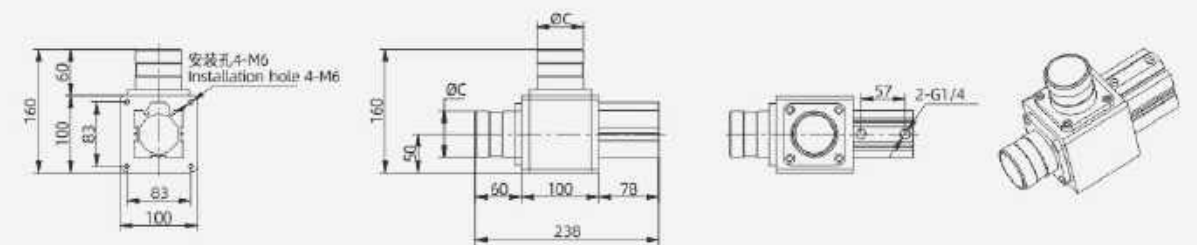
Vacuum relief valve

真空释放阀



尺寸图表 Dimensional chart

BK-SF



参数 Parameter

型号 Model	ØC
BK-SF-2-60	1寸管 1-inch tube
BK-SF-2-32	2寸管 2-inch tube