



真空吸盘 Vacuum Cups



亮点 Highlights

- 尺寸和材质多种规格可选
- 密封唇柔软且有锥度
- 吸盘顶部有加强筋结构
- 最优结构设计
- 底部支撑结构

- Various sizes and materials are available
- Soft and tapered sealing lip
- Rib structure on the top of the suction cup
- Optimum structural design
- Bottom support structure

优势 Advantage

- 适合不同尺寸和形状的工件
- 结构对曲面和不平整的工件有很强的适应性
- 高速运动时，具有极强的水平和横向抓取力
- 尺寸小、吸力大
- 搬运薄壁工件不会产生永久变形
- Suitable for workpieces of different sizes and shapes
- Strong adaptability to curved surfaces and uneven workpieces
- Strong horizontal and lateral grabbing force when moving at high speed
- Small size and high suction
- Handling thin-walled workpieces without permanent deformation

型号表示方法

Model representation methods



橡胶件代码

NBR-55 丁腈橡胶
SI-55 硅橡胶
HT1-60 无痕橡胶

NBR-55 nitrile rubber
SI-55 silicone rubber
HT1-60 traceless rubber

运用案例

Application example



包装行业
packaging industry



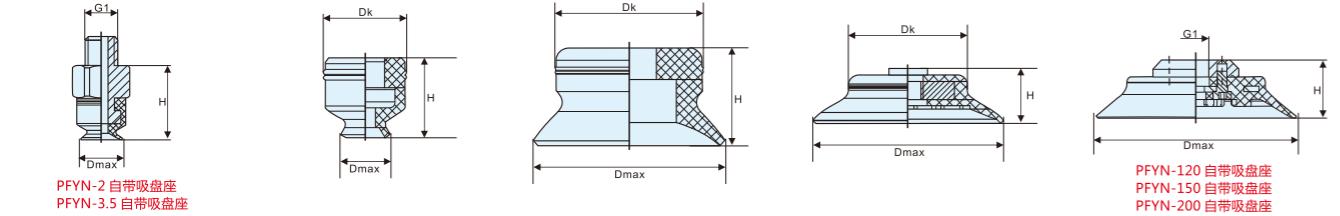
电子行业
Electronics industry



注塑行业
Injection molding industry

吸盘PFG系列 (扁平式) Vacuum Cups PFG Series

PFYN-2...PFYN3.5 PFG-5...PFG-10 PFG-15...PFG-50 PFG-60...PFG-95 PFYN-120...PFYN-200



型号 (Model)	吸力 (N) ⁽¹⁾	推荐真空管内径 (mm)	G1 (mm)	Dk (mm)	Dmax (mm)	H (mm)	SI-55 (透明)	HT1-60 (蓝色)	NBR-55 (黑色)	重量 (Weight)
PFYN-2...	0.12	2	M3-M	-	2.5	6.0	○	●	●	1g
PFYN-3.5...	0.42	2	M3-M	4.2	4.0	6.0	○	●	●	1g
PFG-5...	0.75	2	-	7.7	5.5	6.5	○	●	●	0.15g
PFG-6...	1.2	2	-	7.7	6.5	6.5	○	●	●	0.17g
PFG-8...	2.3	2	-	8.2	9.0	7.0	○	●	●	0.23g
PFG-10...	4.0	2	-	8.7	11.5	7.5	○	●	●	0.30g
PFG-15...	9.0	4	-	12.2	17.5	8.0	○	●	●	1g
PFG-20...	15.5	4	-	15.2	23.0	10.0	○	●	●	1g
PFG-25...	26.5	4	-	16.2	27.5	14.0	○	●	●	3g
PFG-30...	34.0	4	-	15.1	31.5	12.0	○	●	●	3g
PFG-35...	44.0	4	-	20.5	38.0	14.0	○	●	●	6g
PFG-40...	57.7	4	-	24.3	43.0	14.0	○	●	●	7g
PFG-50...	91.0	4	-	29.1	53.5	15.0	○	●	●	11g
PFG-60...	125	6	-	38.7	64.0	18.0	○	●	●	25g
PFG-80...	260	6	-	52.3	86.0	20.5	○	●	●	52g
PFG-95...	350	6	-	68.2	102.0	19.0	○	●	●	93g
PFYN-120...	540	9	G1/2-F	89.5	124	23.5	○	●	●	223g
PFYN-150...	842	9	G1/2-F	104.5	158	31.0	○	●	●	391g
PFYN-200...	1498	9	G1/2-F	142.5	222	37.0	○	●	●	555g

(1) 上述规定吸力为在真空度为-0.6bar时的理论值, 对于表面光滑、干燥的工件而言, 未包括安全系数。

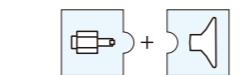
(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.



安装方式

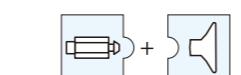
Types of assembly

直插式



Factory-crimped fitting:

直插式



Hollow shaft fitting:

分体式

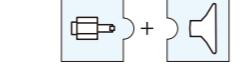
接头和空心螺钉

Removable fitting:

(adapter and hollow screw)



吸盘座 Vacuum Cup Fitting



吸盘 Vacuum Cups

VCF29-M5、VCF30-G18

PFG-5~PFG-10

VCF31-M5、VCF32-G18

PFG-15

VCF33-M5、VCF34-G18

PFG-20

VCF35-M5、VCF36-G18

PFG-25~PFG-40

VCF37-M5、VCF38-G18

PFG-50

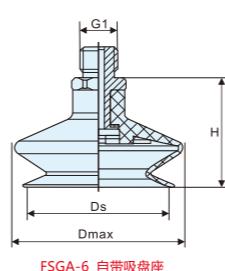
VCF-G14M-M10M

PFG-60~PFG-95

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)
SI-55: Translucent Silicone 半透明硅胶	50	+++	-	-	-40 to 220	Translucent 半透明
HT1-60: Siton® 特制复合材料(无痕)	60	+	++	-	++	Blue 蓝色
NBR-55: Nitrile 丁腈橡胶	60	+	+	-	++	-30 to 120

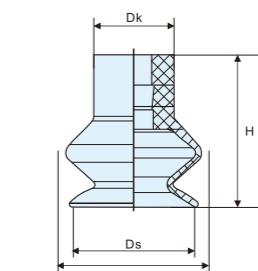
吸盘FGA系列 (波纹管式/2层) Vacuum Cups FGA Series

FSGA-6

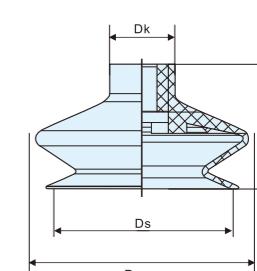


FSGA-6 自带吸盘座

FGA-11...FGA-25



FGA-33...FGA-78



型号 (Model)	吸力 (N) ⁽¹⁾	拉脱力 (N) ⁽¹⁾⁽²⁾	推荐真空管内径 (mm)	G1 (mm)	Dk (mm)	Dmax(S) (mm)	Ds (mm)	H (mm)	SI-55 (透明)	HT1-60 (蓝色)	NBR-55 (黑色)	重量 (Weight)
FSGA-6...	0.4	1.4	4	M5-M	-	8.0	5.7	14	○	●	●	2g
FGA-11...	0.95	3.8	4	-	10	13.0	10.4	16.0	○	●	●	1g
FGA-14...	1.2	5.0	4	-	10	14.5	12.5	15.5	○	●	●	1g
FGA-16...	2.3	6.7	4	-	10	18.5	15.6	19.2	○	●	●	1g
FGA-20...	4.7	10.7	4	-	10	21.0	18.1	15.2	○	●	●	2g
FGA-22...	5.7	15.2	4	-	10	25.0	21.5	19.0	○	●	●	2g
FGA-25...	5.3	17.3	4	-	10	26.5	22.5	23.0	○	●	●	3g
FGA-33...	13.6	39.6	6	-	18	38.0	30.0	27.0	○	●	●	7g
FGA-43...	22.8	64.5	6	-	18	47.5	38.0	27.6	○	●	●	11g
FGA-53...	51.3	95	6	-	18	60.0	50.0	34.0	○	●	●	19g
FGA-63...	85.0	135	6	-	18	68.0	60.0	34.0	○	●	●	24g
FGA-78...	137.4	218	6	-	25	84.5	74.0	47.0	○	●	●	56g

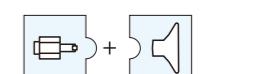
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 (1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.
 (2) 天然橡胶材质的吸盘, 其拉脱力约降低40%。
 (2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.



安装方式

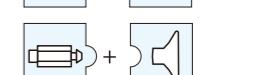
Types of assembly

直插式



Factory-crimped fitting:

直插式



Hollow shaft fitting:

分体式

接头和空心螺钉

Removable fitting:

(adapter and hollow screw)



吸盘座 Vacuum Cup Fitting



吸盘 Vacuum Cups

VCF39-M5、VCF40-G18

FGA-11~FGA-25

VCF24-G18、VCF04-G14

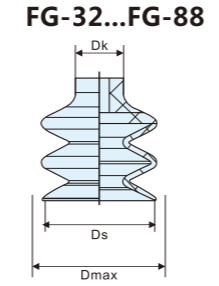
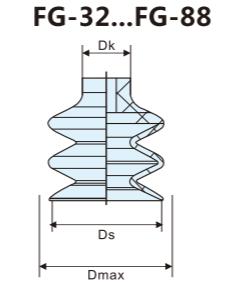
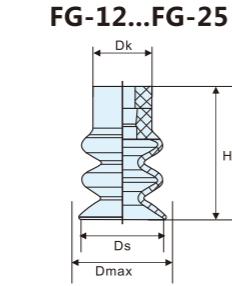
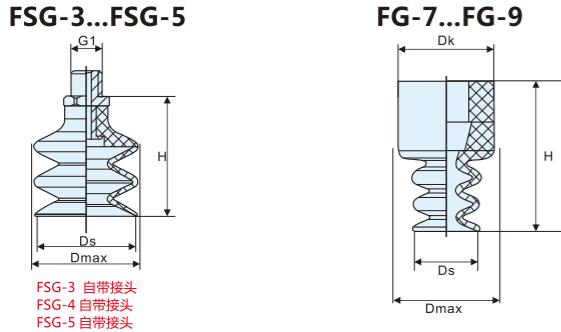
FGA-33~FGA-63

VCF41-G14

FGA-78

<table

吸盘FG系列 (波纹管式/3层) Vacuum Cups FG Series



型号 (Model)	吸力 (N) ⁽¹⁾	拉脱力 (N) ⁽¹⁾⁽²⁾	推荐真空管内径 (mm)	G1 (mm)	Dk (mm)	Dmax (S) (mm)	Ds (mm)	H (mm)	SI-55 (透明)	HT1-60 (蓝色)	NBR-55 (黑色)	重量 (Weight)
FSG-3...	0.2	0.4	2	M3-M	-	4.0	3.0	8.7	◦	•	•	1g
FSG-4...	0.3	0.6	2	M5-M	-	7.0	3.8	19.0	◦	•	•	2g
FSG-5...	0.2	0.8	2	M5-M	-	7.0	5.0	19.0	◦	•	•	2g
FG-7...	0.1	0.9	4	-	9	9.0	5.9	14	◦	•	•	1g
FG-9...	0.7	2.3	4	-	9	9.5	9.0	15	◦	•	•	1g
FG-12...	0.9	3.5	4	-	10	13.0	12.0	21.0	◦	•	•	1g
FG-14...	1.2	5.7	4	-	10	15.5	14.5	22.8	◦	•	•	2g
FG-18...	2.3	8.5	4	-	10	19.0	17.2	22.6	◦	•	•	2g
FG-20...	3.8	12.1	4	-	10	21.0	20.0	22.1	◦	•	•	2g
FG-25...	4.5	19.0	4	-	10	26.0	23.0	34.0	◦	•	•	4g
FG-32...	12.0	36.9	6	-	18	33.5	32	37.5	◦	•	•	10g
FG-42...	13.6	44	6	-	18	45	42.6	46	◦	•	•	18g
FG-52...	27.0	96	6	-	18	55	52.5	48.7	◦	•	•	24g
FG-62...	39.6	137	6	-	18	65	62.2	54	◦	•	•	39g
FG-88...	45.2	286	9	-	25	95.5	89	86.5	◦	•	•	166g

(1) 上述规定吸力为在真空度为-0.6bar时的理论值, 对于表面光滑、干燥的工件而言, 未包括安全系数

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

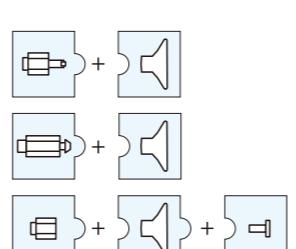
(2) 天然橡胶材质的吸盘, 其拉脱力约降低40%。

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.



安装方式

Types of assembly



吸盘座 Vacuum Cup Fitting

吸盘 Vacuum Cups

VCF39-M5、VCF40-G18

FG-7~FG-25

VCF24-G18、VCF04-G14

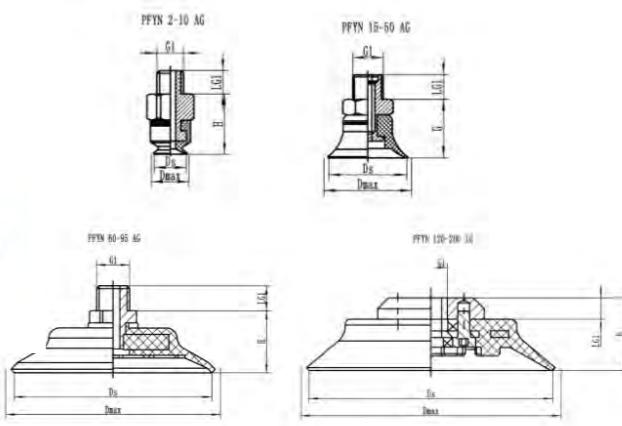
FG-32~FG-62

VCF41-G14

FG-88

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)	
HT1-60: Siton® 特制复合材料(无痕)	60	+	++	-	++	-40 to 220	Blue 蓝色
SI-55: Translucent Silicone 半透明硅胶	50	+++	-	+++	-	-25 to 170	Translucent 半透明
NBR-55: Nitrile 丁腈橡胶	60	+	+	-	++	-30 to 120	Black 黑色

吸盘PFYN系列(扁平式) Vacuum Cups PFG Series



型号 (Model)	吸力 (N) ⁽¹⁾	推荐真空管内径 (mm)	G1 (mm)	DS (mm)	Dmax (mm)	H (mm)	LG1 (mm)	NBR-55 (黑色)	SI-55 (透明)	HT1-60 (蓝色)	重量 (Weight)
PFYN-2...	0.12	2	M3-M	2.0	2.5	6.0	3.0	•	◦	•	1g
PFYN-3.5...	0.42	2	M3-M	3.5	4.0	6.0	3.0	•	◦	•	1g
PFYN-5...	0.75	2	M5-M	5.0	5.5	11.5	4.5	•	◦	•	1g
PFYN-6...	1.2	2	M5-M	6.0	6.5	11.5	4.5	•	◦	•	1g
PFYN-8...	2.3	2	M5-M	8.0	9.0	12.0	4.0	•	◦	•	1g
PFYN-10...	4.0	2	M5-M	10.0	11.5	12.5	4.5	•	◦	•	4g
PFYN-15...	9.0	4	G1/8-M	15.0	17.5	13.0	8.0	•	◦	•	5g
PFYN-20...	15.5	4	G1/8-M	20.0	23.0	15.0	8.0	•	◦	•	6g
PFYN-25...	26.5	4	G1/8-M	25.0	27.5	19.0	8.0	•	◦	•	7g
PFYN-30...	34.0	4	G1/8-M	28.8	31.5	17.0	8.0	•	◦	•	8g
PFYN-35...	44.0	4	G1/8-M	35.0	38.0	19.0	8.0	•	◦	•	11g
PFYN-40...	57.7	4	G1/8-M	40.0	43.0	19.0	8.0	•	◦	•	12g
PFYN-50...	91.0	4	G1/8-M	50.0	53.5	20.0	8.0				15g
PFYN-60...	125	6	G1/4-M	60.0	64.0	23.0	10.0	•	◦	•	34g
PFYN-80...	260	6	G1/4-M	80.0	86.0	25.0	10.0	•	◦	•	63g
PFYN-95...	350	6	G1/4-M	95.0	102.0	25.5	10.0	•	◦	•	102g
PFYN-120...	540	9	G1/2-F	120.0	124.0	36.5	13.0	•	◦	•	353g
PFYN-150...	842	9	G1/2-F	147.5	158.0	45.5	13.0	•	◦	•	521g
PFYN-200...	1498	9	G1/2-F	193.0	222.0	50.5	13.0	•	◦	•	785g

(1) 上述规定吸力为在真空度为-0.6bar时的理论值, 对于表面光滑、干燥的工件而言, 未包括安全系数

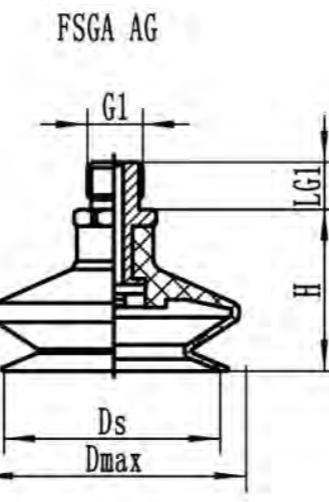
(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

技术参数

Technical Parameters

Materials	Shore Hardness	A Flexibility	Abrasion resistance	UV & weather resistance	Oil resistance	Heat resistance (in °C)
SI-55: Translucent Silicone 半透明硅胶	50	+++	-	-	-	-40 to 220 半透明
HT1-60: Siton® 特制复合材料(无痕)	60	+	++	-	++	-25 to 170 蓝色
NBR-55: Nitrile 丁腈橡胶	60	+	+	+	-	++ -30 to 120 黑色

吸盘FSGA系列(波纹管式/2层) Vacuum Cups FGA Series



型号 (Model)	吸力 (N) ⁽¹⁾	拉脱力 (N) ⁽¹⁾⁽²⁾	推荐真空管 内径(mm)	G1 (mm)	DS (mm)	Dmax (mm)	H (mm)	LG1 (mm)	NBR-55 (黑色)	SI-55 (透明)	HT1-60 (蓝色)	重量 (Weight)
FSGA-6...	0.4	1.4	4	M5-M	5.7	8.0	14.0	4.5	•	◦	•	2g
FSGA-11...	0.95	3.8	4	M5-M	10.0	13.0	21.0	5.0	•	◦	•	2g
FSGA-14...	1.2	5.0	4	M5-M	12.5	14.5	20.5	5.0	•	◦	•	2g
FSGA-16...	2.3	6.7	4	G1/8-M	15.6	18.5	25.2	7.5	•	◦	•	5g
FSGA-20...	4.7	10.7	4	G1/8-M	18.1	21.0	21.2	7.5	•	◦	•	5g
FSGA-22...	5.7	15.2	4	G1/8-M	21.5	25.0	25.0	7.5	•	◦	•	6g
FSGA-25...	5.3	17.3	4	G1/8-M	22.5	26.5	29.0	7.5	•	◦	•	6g
FSGA-33...	13.6	39.6	6	G1/8-M	30.0	38.0	31.0	11.0	•	◦	•	16g
FSGA-43...	22.8	64.5	6	G1/8-M	38.0	47.5	31.6	11.0	•	◦	•	19g
FSGA-53...	51.3	95	6	G1/8-M	50.0	60.0	38.0	11.0	•	◦	•	27g
FSGA-63...	85.0	135	6	G1/8-M	60.0	68.0	38.0	11.0	•	◦	•	34g
FSGA-78...	137.4	218	6	G1/4-M	74.0	84.5	53.0	11.0	•	◦	•	71g

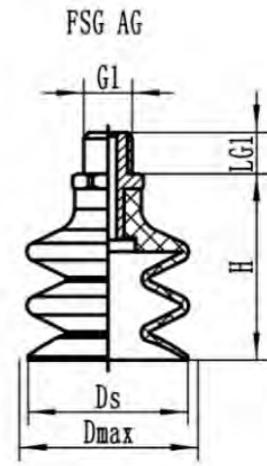
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(2) 天然橡胶材质的吸盘, 其拉脱力约降低40%。

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.

吸盘PFYN系列(扁平式) Vacuum Cups PFG Series



型号 (Model)	吸力 (N) ⁽¹⁾	拉脱力 (N) ⁽¹⁾⁽²⁾	推荐真空管 内径(mm)	G1 (mm)	Dmax (mm)	DS (mm)	H (mm)	LG1 (mm)	NBR-55 (黑色)	SI-55 (透明)	HT1-60 (蓝色)	重量 (Weight)
FSG-3...	0.2	0.4	2	M3-M	4.0	3.0	8.7	3.0	•	◦	•	1g
FSG-4...	0.3	0.6	2	M5-M	7.0	3.8	19.0	5.0	•	◦	•	2g
FSG-5...	0.2	0.8	2	M5-M	7.0	5.0	19.0	5.0	•	◦	•	2g
FSG-7...	0.1	0.9	4	M5-M	9.0	5.9	19.0	5.0	•	◦	•	2g
FSG-9...	0.7	2.3	4	M5-M	9.5	9.0	20.0	5.0	•	◦	•	2g
FSG-12...	0.9	3.5	4	M5-M	13.0	12.0	26.0	5.0	•	◦	•	2g
FSG-14...	1.2	5.7	4	M5-M	15.5	14.5	27.8	5.0	•	◦	•	3g
FSG-18...	2.3	8.5	4	G1/8-M	19.0	17.2	28.6	7.5	•	◦	•	6g
FSG-20...	3.8	12.1	4	G1/8-M	21.0	20.0	28.1	7.5	•	◦	•	6g
FSG-25...	4.5	19.0	4	G1/8-M	26.0	23.0	40.0	7.5	•	◦	•	8g
FSG-32...	12.0	36.9	6	G1/8-M	33.5	32.0	41.5	11.0	•	◦	•	17g
FSG-42...	13.6	44	6	G1/8-M	45.0	42.6	50.0	11.0	•	◦	•	27g
FSG-52...	27.0	96	6	G1/8-M	55.0	52.5	52.7	11.0	•	◦	•	32g
FSG-62...	39.6	137	6	G1/8-M	65.0	62.2	58.0	11.0	•	◦	•	60g
FSG-88...	45.2	286	9	G1/4-M	95.5	89.0	92.5	11.0	•	◦	•	173g

(1) 上述规定吸力为在真空度为-0.6bar时的理论值, 对于表面光滑、干燥的工件而言, 未包括安全系数

(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

(2) 天然橡胶材质的吸盘, 其拉脱力约降低40%。

(2) The pull-off force of the vacuum cup made of natural rubber is reduced by about 40%.

技术参数

Technical Parameters

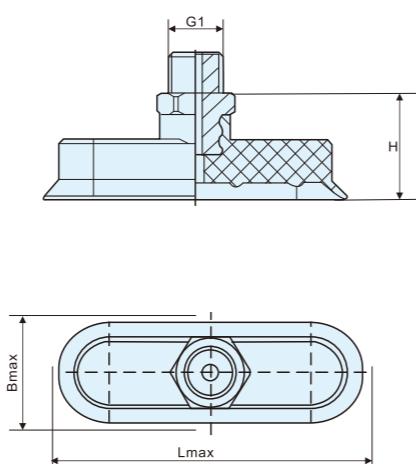
Materials 材质	Shore Hardness 硬度	A Flexibility 柔韧性	Abrasion resistance 耐磨性	UV & weather resistance 抗紫外线	Oil resistance 抗油污性	Heat resistance (in °C) 耐高温	
HT1-60: Siton® 特制复合材料(无痕)	60	+	++	-	++	-25 to 170	Blue 蓝色
SI-55: Translucent Silicone 半透明硅胶	50	+++	-	+++	-	-40 to 220	Translucent 半透明
NBR-55: Nitrile 丁腈橡胶	60	+	+	-	++	-30 to 120	Black 黑色

技术参数

Technical Parameters

Materials 材质	Shore Hardness 硬度	A Flexibility 柔韧性	Abrasion resistance 耐磨性	UV & weather resistance 抗紫外线	Oil resistance 抗油污性	Heat resistance (in °C) 耐高温	
HT1-60: Siton® 特制复合材料(无痕)	60	+	++	-	++	-25 to 170	Blue 蓝色
SI-55: Translucent Silicone 半透明硅胶	50	+++	-	+++	-	-40 to 220	Translucent 半透明
NBR-55: Nitrile 丁腈橡胶	60	+	+	-	++	-30 to 120	Black 黑色

吸盘SGON系列 (扁平长方型) Vacuum Cups SGON Series



型号 (Model)	吸力 (N) ⁽¹⁾	推荐真空管内径 (mm)	G1 (mm)	Bmax (mm)	Lmax (mm)	H (mm)	SI-60 (透明)	HT1-60 (蓝色)	NBR-60 (黑色)	重量 (Weight)
SGON-4x2...	0.42	2	M3-M	2.5	4.5	8	○	●	●	2g
SGON-7x3.5...	1.0	2	M3-M	4.5	7.5	8	○	●	●	2g
SGON-12x4...	1.8	2	M5-M	5.0	13.0	18	○	●	●	3g
SGON-15x5...	3.1	2	M5-M	5.5	15.5	17	○	●	●	3g
SGON-18x6...	4.5	2	M5-M	7.0	18.5	17	○	●	●	3g
SGON-24x8...	8.0	4	G1/8-M	9.0	24.5	17	○	●	●	7g
SGON-30x10...	12.2	4	G1/8-M	11.5	30.5	17	○	●	●	7g
SGON-45x15...	28.2	6	G1/4-M	16.5	46.0	26	○	●	●	15g
SGON-60x20...	50.1	6	G1/4-M	22.0	61.0	26	○	●	●	19g
SGON-75x25...	78.3	6	G1/4-M	27.5	77.0	26	○	●	●	27g
SGON-90x30...	112.6	6	G1/4-M	33.0	92.5	26	○	●	●	35g

(1) 上述规定吸力为在真空度为-0.6bar时的理论值, 对于表面光滑、干燥的工件而言, 未包括安全系数

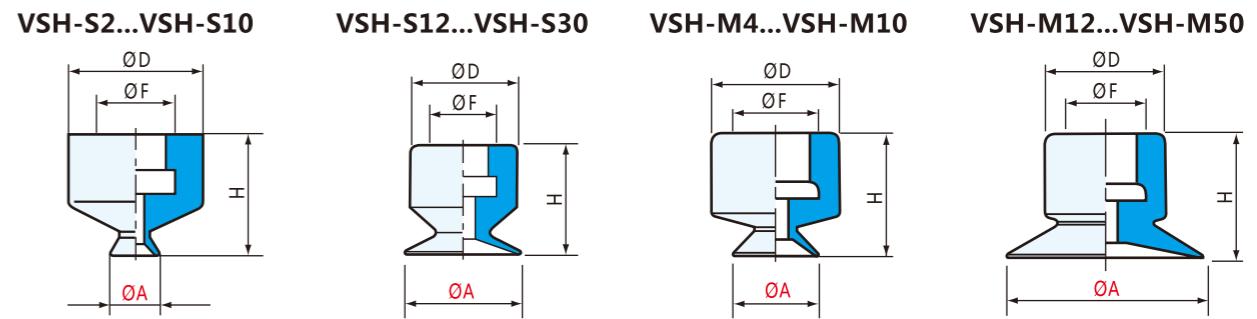
(1) The suction specified above is the theoretical value when the vacuum degree is -0.6bar. For smooth and dry workpieces, the safety factor is not included.

* SGON-24x8 及更大的替换吸盘垫配有专用固定夹。

* SGON-24x8 and larger replacement vacuum cup pads are equipped with special fixing clips.

Materials 材质	Shore Hardness 硬度	A Flexibility 柔韧性	Abrasion resistance 耐磨性	UV & weather resistance 抗紫外线	Oil resistance 抗油污性	Heat resistance (in °C) 耐高温
HT1-60: Siton® 特制复合材料(无痕)	60	+	++	-	++	-40 to 220 Blue 蓝色
SI-60: Translucent Silicone 半透明硅胶	50	+++	-	+++	-	-25 to 170 Translucent 半透明
NBR-60: Nitrile 丁腈橡胶	60	+	+	-	++	-30 to 120 Black 黑色

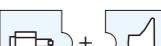
吸盘VSH系列 (扁平式) Vacuum Cups VSH Series



	△(N) ⁽¹⁾	△(N) ⁽¹⁾	ØA(mm)	H(mm)	ØD(mm)	ØF(mm)	SI(半透明)	SP(海绵)
VSH-S2	0.5	0.1	2	13	11	7	○	-
VSH-S4	0.7	0.2	4	15	11	7	○	-
VSH-S6	0.9	0.3	6	11	11	7	○	-
VSH-S8	1.1	0.5	8	11	11	7	○	-
VSH-S10	1.6	0.8	10	11	11	7	○	-
VSH-S12	2.0	1.5	12	11	11	7	○	-
VSH-S15	3.7	1.8	15	13	11	7	○	-
VSH-S20	6.1	3.0	20	13	12	7	○	-
VSH-S25	9.4	4.7	25	13	11	7	○	-
VSH-S30	15.9	7.9	30	12	13	7	○	-
VSH-M4	0.7	0.2	4	14	15	11	○	-
VSH-M6	0.9	0.3	6	15	15	11	○	-
VSH-M8	1.1	0.5	8	15	15	11	○	-
VSH-M10	1.6	0.8	10	15	15	11	○	●
VSH-M12	2.0	1.5	12	15	15	11	○	●
VSH-M15	3.7	1.8	15	15.5	16	11	○	●
VSH-M20	6.1	3.0	20	15.5	16	11	○	●
VSH-M25	9.4	4.7	25	15	15	11	○	●
VSH-M30	15.9	7.9	30	15	16	11	○	●
VSH-M40	26.7	13.4	40	16	17	11	○	●
VSH-M50	38.3	19.1	50	15	20	11	○	●

(1) 真空度为65%时吸盘的实际吸着力, 建议水平工作时安全系数为2, 垂直工作时安全系数为4。

(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2 for horizontal handling and a factor of 4 for vertical handling.

安装方式
Types of assembly直插式
Factory-crimped fitting:直插式
Hollow shaft fitting:分体式
Removable fitting:
(adapter and hollow screw)吸盘座
Vacuum Cup Fitting

VCF11-M5、VCF11-G18

VFIL2系列金具 (VFIL2Series Stem)

VFIL1系列金具 (VFIL1Series Stem)

吸盘
Vacuum Cups

VSH-S2~VSH-S30

VCF10-G 1/8、VCF27-M5

FIL1系列金具 (FIL1Series Stem)

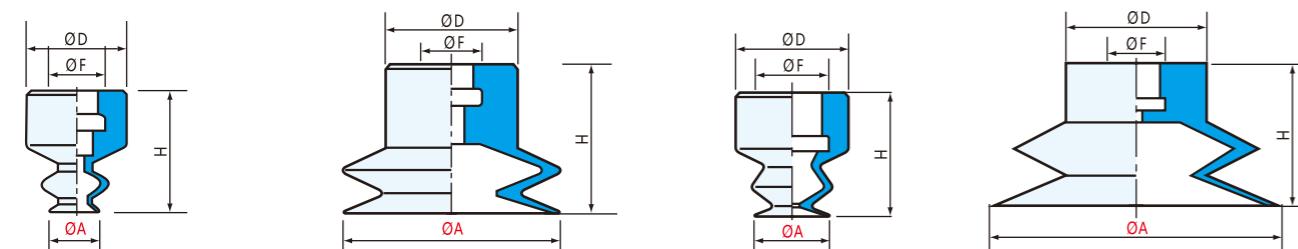
VFIL系列金具 (VFILSeries Stem)

VSH-M4~VSH-M50

Materials 材质	Shore Hardness 硬度	A Flexibility 柔韧性	Abrasion resistance 耐磨性	UV & weather resistance 抗紫外线	Oil resistance 抗油污性	Heat resistance (in °C) 耐高温
SI: Translucent Silicone 半透明硅胶	50	+++	-	-	-	-40 to 220 Translucent 半透明

吸盘VSH2系列 (波纹管式/2层) Vacuum Cups VSH2 Series

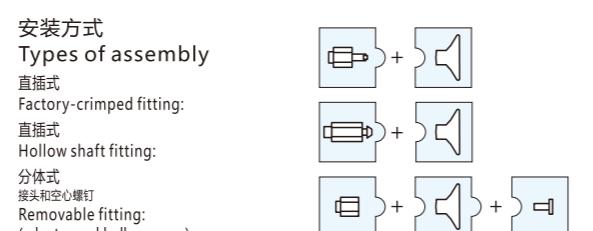
VSH2-S4...VSH2-S20 VSH2-S25...VSH2-S30 VSH2-M6...VSH2-M25 VSH2-M30...VSH2-M50



	△(N) ⁽¹⁾	△(N) ⁽¹⁾	ØA(mm)	H(mm)	ØD(mm)	ØF(mm)	SI(半透明)	SP(海绵)
VSH2-S4	0.3	0.1	4	15	12	7	○	-
VSH2-S6	0.5	0.2	6	15	12	7	○	-
VSH2-S8	1.2	0.7	8	15	12	7	○	-
VSH2-S10	1.7	0.9	10	15	12	7	○	-
VSH2-S12	2.5	1.3	12	15	12	7	○	-
VSH2-S15	2.7	1.3	15	18	15	7	○	-
VSH2-S20	5.6	2.8	20	18	15	7	○	-
VSH2-S25	7.9	4.0	25	17.5	15	7	○	-
VSH2-S30	12	6	30	17.5	15	7	○	-
VSH2-M6	0.5	0.2	6	18	15	11	○	-
VSH2-M8	1.2	0.7	8	17	15	11	○	-
VSH2-M10	1.7	0.9	10	17	15	11	○	●
VSH2-M12	2.5	1.3	12	17	15	11	○	●
VSH2-M15	2.7	1.3	15	18	15	11	○	●
VSH2-M20	5.6	2.8	20	18	15	11	○	●
VSH2-M25	7.9	4.0	25	18	15	11	○	●
VSH2-M30	12	6	30	19	18	11	○	●
VSH2-M35	13.9	6.9	35	19	18	11	○	●
VSH2-M40	20.2	10.1	40	22	23	11	○	●
VSH2-M50	40	20	50	24	24	11	○	●

(1) 真空度为65%时吸盘的实际吸着力，建议水平工作时安全系数为2，垂直工作时安全系数为4。

(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2 for horizontal handling and a factor of 4 for vertical handling.

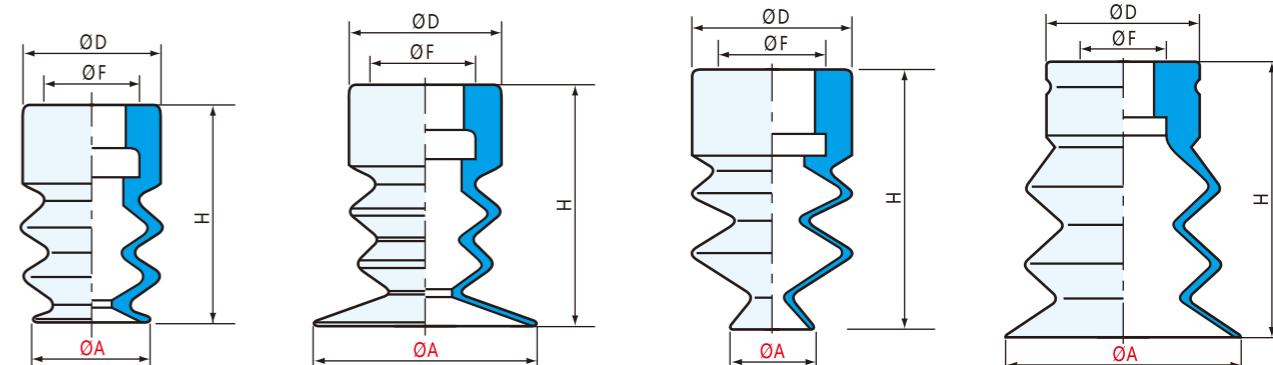


吸盘座 Vacuum Cup Fitting	吸盘 Vacuum Cups
VCF11-M5,VCF11-G18	VSH2-S4 ~ VSH2-S30
VFIL2系列金具 (VFIL2Series Stem) VFIL1系列金具 (VFIL1Series Stem)	
VCF10-G 1/8,VCF27-M5 FIL1系列金具 (FIL1Series Stem) VFIL系列金具 (VFILSeries Stem)	VSH2-M6 ~ VSH2-M50

Materials 材质	Shore Hardness 硬度	A Flexibility 柔韧性	Abrasion resistance 耐磨性	UV & weather resistance 抗紫外线	Oil resistance 抗油污性	Heat resistance (in °C) 耐高温
SI: Translucent Silicone 半透明硅胶	50	+++	-	-	-40 to 220	Translucent 半透明

吸盘VSH3系列 (波纹管式/3层) Vacuum Cups VSH3 Series

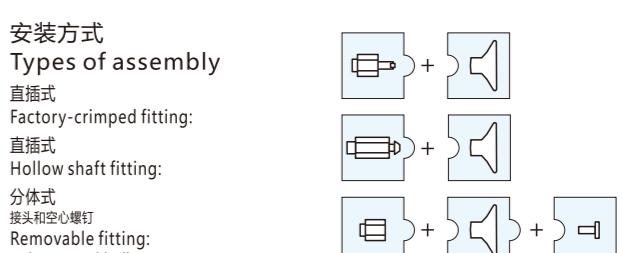
VSH3-S6...VSH3-S8 VSH3-S10...VSH3-S15 VSH3-M8...VSH3-M30 VSH3-M40...VSH3-M50



	△(N) ⁽¹⁾	ØA(mm)	H(mm)	ØD(mm)	ØF(mm)	SI(半透明)	SP(海绵)
VSH3-S6	0.5	6	15	10	7	○	-
VSH3-S8	1.0	8	15	10	7	○	-
VSH3-S10	1.5	10	15	10	7	○	-
VSH3-S12	2.8	12	15	10	7	○	-
VSH3-S15	3.0	15	16	10	7	○	-
VSH3-M8	1.0	8	20	15	11	○	-
VSH3-M10	1.5	10	24	15	11	○	●
VSH3-M12	2.8	12	24	15	11	○	●
VSH3-M15	3.0	15	24	15	11	○	●
VSH3-M20	4.6	20	25	15	11	○	●
VSH3-M25	6.5	25	29	17	11	○	●
VSH3-M30	12.1	30	35	17	11	○	●
VSH3-M40	20.5	40	45	20	11	○	●
VSH3-M50	25	50	43	20	11	○	●

(1) 真空度为65%时吸盘的实际吸着力，建议水平工作时安全系数为2，垂直工作时安全系数为4。

(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2 for horizontal handling and a factor of 4 for vertical handling.



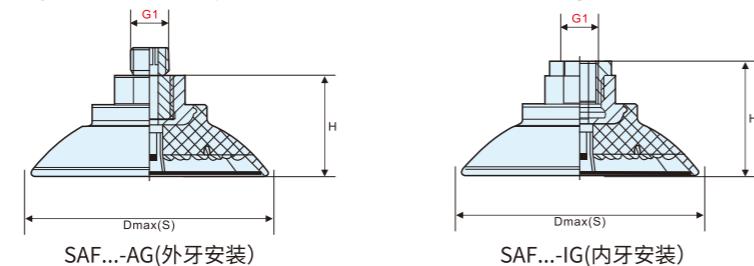
吸盘座 Vacuum Cup Fitting	吸盘 Vacuum Cups
VCF11-M5,VCF11-G18	VSH3-S6 ~ VSH3-S15
VFIL2系列金具 (VFIL2Series Stem) VFIL1系列金具 (VFIL1Series Stem)	

Materials 材质	Shore Hardness 硬度	A Flexibility 柔韧性	Abrasion resistance 耐磨性	UV & weather resistance 抗紫外线	Oil resistance 抗油污性	Heat resistance (in °C) 耐高温
SI: Translucent Silicone 半透明硅胶	50	+++	-	-	-40 to 220	Translucent 半透明

吸盘SAF系列 (扁平式) Vacuum Cups SAF Series

功能：防滑、防油、防水 (多用于汽车钣金，玻璃等吸附)

Functions: anti-skid, oil-proof and water-proof (mostly used for adsorption of automobile sheet metal, glass, etc.)

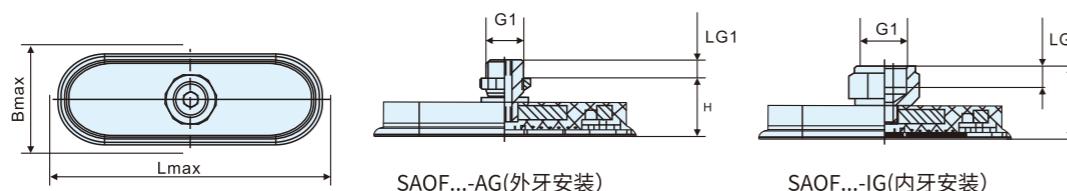


型号 (Model)	吸力 (N) ⁽¹⁾	侧向力 (N) ⁽²⁾	推荐真空管内径 (mm)	Dmax(S) (mm)	G1 (mm)	H (mm)	LG1 (mm)	重量 (Weight)
SAF-30-G3/8AG	38	30	4	34	G3/8-M	20	10	17g
SAF-30-G3/8IG	38	30	4	34	G3/8-F	36	9	43g
SAF-40-G3/8AG	69	52	4	46	G3/8-M	22	10	19g
SAF-40-G3/8IG	69	52	4	46	G3/8-F	38	9	45g
SAF-50-G3/8AG	100	80	4	56	G3/8-M	28	10	40g
SAF-50-G3/8IG	100	80	4	56	G3/8-F	28	15	31g
SAF-60-G3/8AG	150	105	6	67	G3/8-M	31	10	46g
SAF-60-G3/8IG	150	105	6	67	G3/8-F	31	15	37g
SAF-80-G3/8AG	272	205	6	89	G3/8-M	35	10	65g
SAF-80-G3/8IG	272	205	6	89	G3/8-F	35	15	56g
SAF-100-G3/8AG	430	310	6	110	G3/8-M	36	10	76g
SAF-100-G3/8IG	430	310	6	110	G3/8-F	36	15	67g
SAF-125-G3/8AG	660	475	9	135	G3/8-M	43	10	155g
SAF-125-G3/8IG	660	475	9	135	G3/8-F	43	15	146g

吸盘SAOF系列 (扁平式) Vacuum Cups SAOF Series

功能：防滑、防油、防水 (多用于汽车钣金，玻璃等吸附)

Functions: anti-skid, oil-proof and water-proof (mostly used for adsorption of automobile sheet metal, glass, etc.)

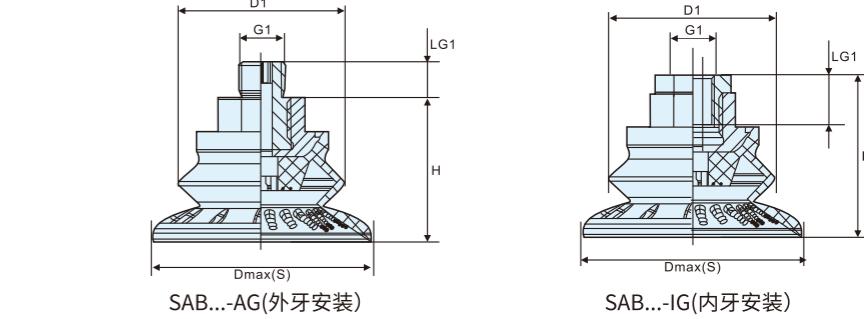


型号 (Model)	吸力 (N) ⁽¹⁾	侧向力 (N) ⁽²⁾	推荐真空管内径 (mm)	Dmax(S) (mm)	G1 (mm)	H (mm)	LG1 (mm)	Lmax(S) (mm)	重量 (Weight)
SAOF-50x16-G3/8AG	31	24	4	18	G3/8-M	26	8	52	24g
SAOF-50x16-G3/8IG	31	24	4	18	G3/8-F	34	9	52	45g
SAOF-60x23-G3/8AG	57	37	4	25	G3/8-M	18	8	64	21g
SAOF-60x23-G3/8IG	57	37	4	25	G3/8-F	26	9	64	42g
SAOF-90x30-G3/8AG	122	96	4	34	G3/8-M	19	8	94	39g
SAOF-90x30-G3/8IG	122	96	4	34	G3/8-F	27	9	94	60g
SAOF-80x40-G3/8AG	140	110	4	43	G3/8-M	20	8	85	34g
SAOF-80x40-G3/8IG	140	110	4	43	G3/8-F	28	9	85	55g
SAOF-100x50-G3/8AG	217	181	6	54	G3/8-M	22	8	106	63g
SAOF-100x50-G3/8IG	217	181	6	54	G3/8-F	31	9	106	85g
SAOF-120x60-G3/8AG	312	254	6	65	G3/8-M	24	8	128	77g
SAOF-120x60-G3/8IG	312	254	6	65	G3/8-F	33	9	128	99g
SAOF-140x70-G3/8AG	425	344	6	76	G3/8-M	25	8	149	85g
SAOF-140x70-G3/8IG	425	344	6	76	G3/8-F	34	9	149	107g

吸盘SAB系列 (波纹管式/2层) Vacuum Cups SAB Series

功能：防滑、防油、防水 (多用于汽车钣金，玻璃等吸附)

Functions: anti-skid, oil-proof and water-proof (mostly used for adsorption of automobile sheet metal, glass, etc.)

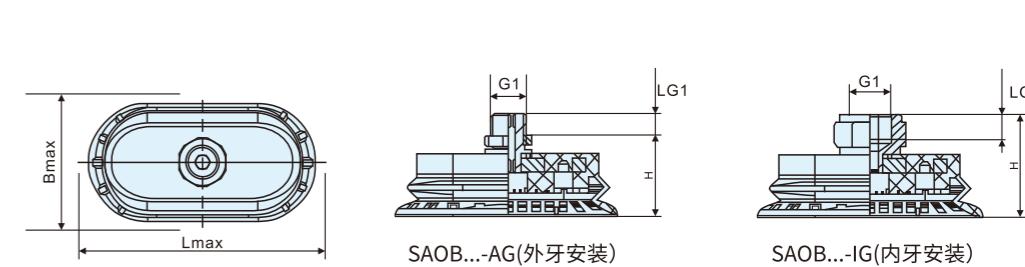


型号 (Model)	吸力 (N) ⁽¹⁾	拉脱力 (N) ⁽¹⁾	侧向力 (N) ⁽²⁾	推荐真空管内径 (mm)	Dmax(S) (mm)	G1 (mm)	D1 (mm)	H (mm)	LG1 (mm)	重量 (Weight)
SAB-22-G3/8AG	16	24	18	4	24	G3/8-M	22	25	10	15g
SAB-22-G3/8IG	16	24	18	4	24	G3/8-F	22	41	9.5	41g
SAB-30-G3/8AG	22	33	30	4	34	G3/8-M	32	28	10	19g
SAB-30-G3/8IG	22	33	30	4	34	G3/8-F	32	44	9.5	45g
SAB-40-G3/8AG	38	59	36	4	45	G3/8-M	32	28.8	10	20g
SAB-40-G3/8IG	38	59	36	4	45	G3/8-F	32	48.8	9.5	45g
SAB-50-G3/8AG	53	87	55	4	56	G3/8-M	40	36.9	10	41g
SAB-50-G3/8IG	53	87	55	4	56	G3/8-F	40	36.9	15	32g
SAB-60-G3/8AG	82	130	82	6	67	G3/8-M	48	41.3	10	49g
SAB-60-G3/8IG	82	130	82	6	67	G3/8-F	48	41.3	15	40g
SAB-80-G3/8AG	135	221	145	6	89	G3/8-M	64	49.9	10	72g
SAB-80-G3/8IG	135	221	145	6	89	G3/8-F	64	49.9	15	63g
SAB-100-G3/8AG	190	357	220	6	110	G3/8-M	77	56.6	10	97g
SAB-100-G3/8IG	190	357	220	6	110	G3/8-F	77	56.6	15	88g
SAB-125-G3/8AG	250	558	352	9	135	G3/8-M	94	67.8	10	179g
SAB-125-G3/8IG	250	558	352	9	135	G3/8-F	94	67.8	15	170g

吸盘SAOB系列 (波纹管式长方型/2层) Vacuum Cups SAOB Series

功能：防滑、防油、防水 (多用于汽车钣金，玻璃等吸附)

Functions: anti-skid, oil-proof and water-proof (mostly used for adsorption of automobile sheet metal, glass, etc.)



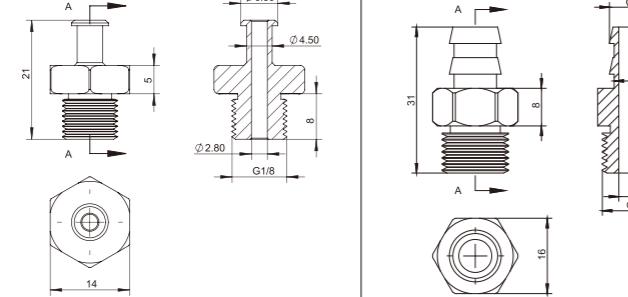
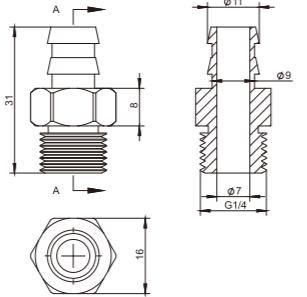
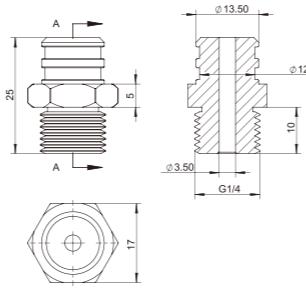
型号 (Model)	吸力 (N) ⁽¹⁾	拉脱力 (N) ⁽¹⁾	侧向力 (N) ⁽²⁾	推荐真空管内径 (mm)	Bmax (mm)	Lmax (mm)	G1 (mm)	H (mm)	LG1 (mm)	重量 (Weight)
SAOB-60x30-G3/8AG	38	70	73	4	33	63	G3/8-M	27.0	8	49g
SAOB-60x30-G3/8IG	38	70	73	4	33	63	G3/8-F	35.0	9	70g
SAOB-80x40-G3/8AG	65	132	153	6	43	83	G3/8-M	29.7	8	67g
SAOB-80x40-G3/8IG	65	132	153	6	43	83	G3/8-F	37.7	9	88g
SAOB-110x50-G3/8AG	110	234	299	6	59	114	G3/8-M	35.5	8	87g
SAOB-110x50-G3/8IG	110	234	299	6	59	114	G3/8-F	43.5	9	109g
SAOB										

吸盘座 Vacuum Cup Fitting

型号表示方法
Model representation methods

VCF 01 - G14

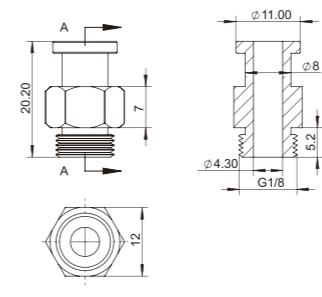
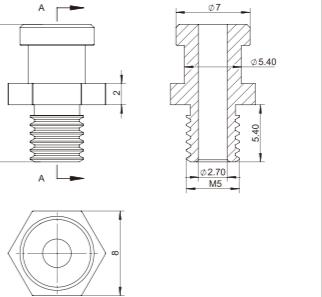
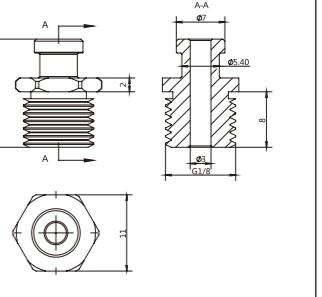
系列 Series
编号 NO.螺牙尺寸 Thread dimension
M5 M8 G1/8 G1/4

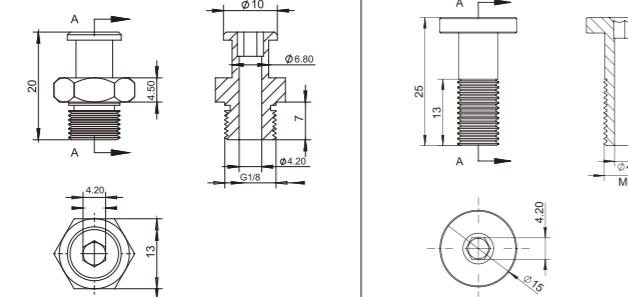
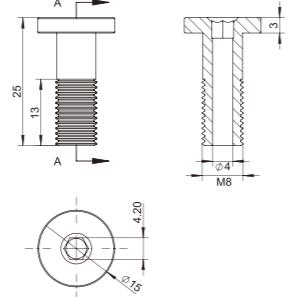
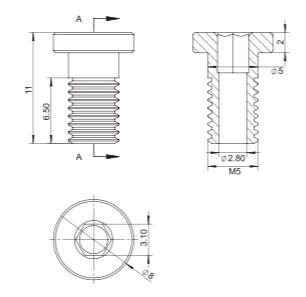
吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF02-G18	VCF14-G14	VCF06-G14
重量(Weight)	3. 5g	7. 0g	9. 7g

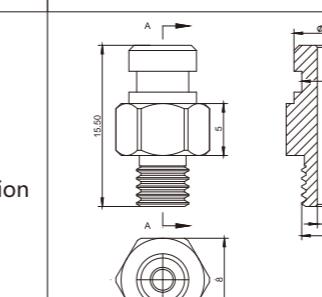
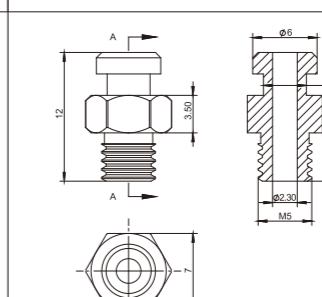
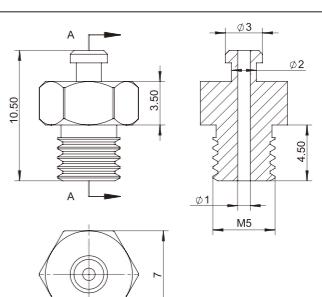
吸盘座 Vacuum Cup Fitting

VCF 01 - G14

系列 Series
编号 NO.螺牙尺寸 Thread dimension
M5 M8 G1/8 G1/4

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF10-G18	VCF11-M5	VCF11-G18
重量(Weight)	3. 7g	2. 0g	2. 5g

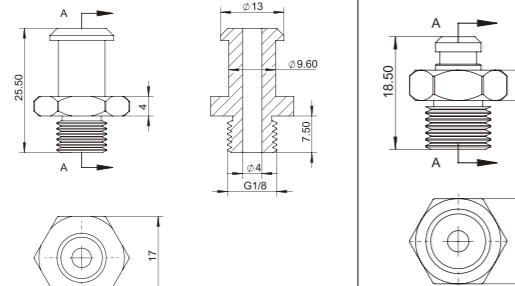
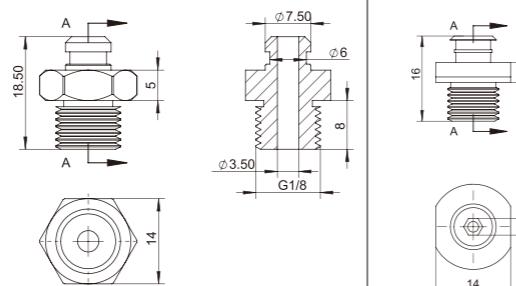
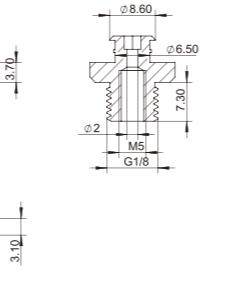
吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF07-G18	VCF08-M8	VCF09-M5
重量(Weight)	3. 3g	8. 3g	1. 4g

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF12-M5	VCF13-M5	VCF14-M5
重量(Weight)	1. 2g	0. 7g	0. 5g

吸盘座 Vacuum Cup Fitting

VCF 01 - G14

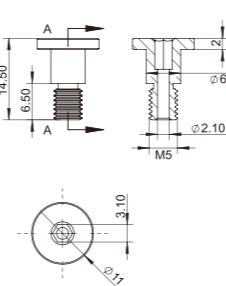
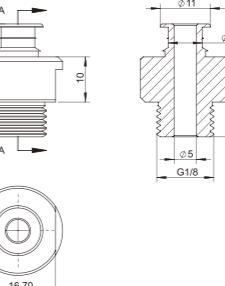
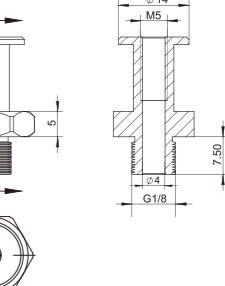
系列 Series 编号 NO. 螺牙尺寸 Thread dimension M5 M8 G1/8 G1/4

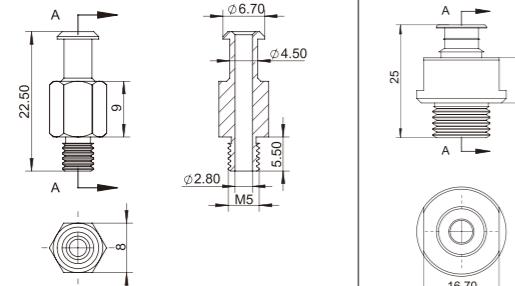
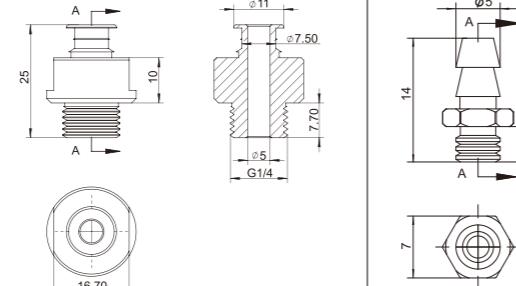
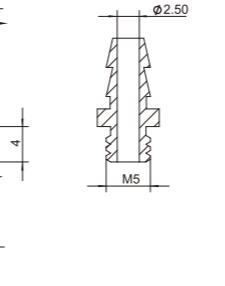
吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF15-G18	VCF16-G18	VCF17-G18
重量(Weight)	17.8g	3.8g	2.9g

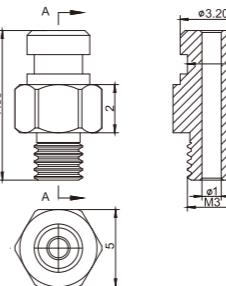
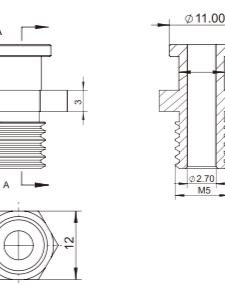
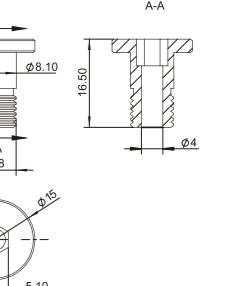
吸盘座 Vacuum Cup Fitting

VCF 01 - G14

系列 Series 编号 NO. 螺牙尺寸 Thread dimension M5 M8 G1/8 G1/4

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF22-M5	VCF23-G18	VCF24-G18
重量(Weight)	2.9g	8.9g	5.5g

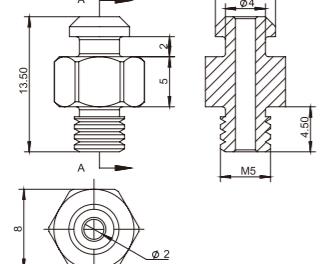
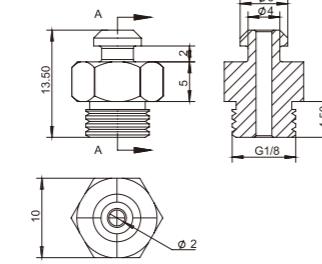
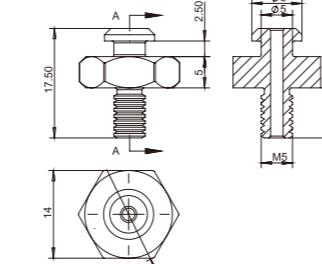
吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF18-M5	VCF20-G14	VCF21-M5
重量(Weight)	4.6g	9.5g	1.8g

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF25-M3	VCF27-M5	VCF28-M8
重量(Weight)	0.2g	6.2g	1.9g

吸盘座 Vacuum Cup Fitting

VCF 01 - G14

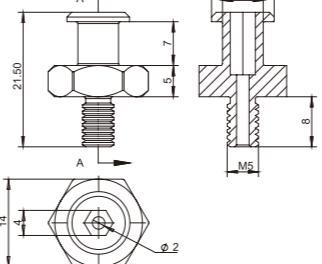
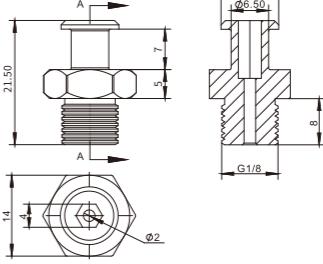
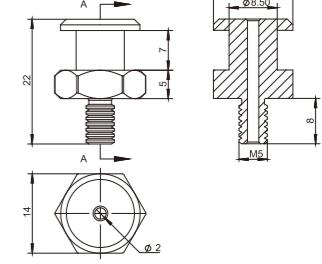
系列 Series
编号 NO.
螺牙尺寸 Thread dimension
M5 M8 G1/8 G1/4

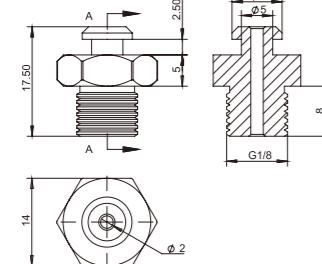
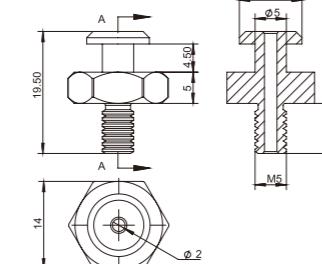
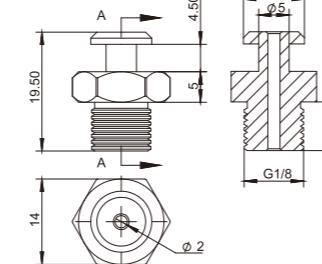
吸盘座 Vacuum Cup Fitting			
尺寸 Dimension		  	
型号(Model)	VCF29-M5	VCF30-G18	VCF31-M5
重量(Weight)	1.1g	1.3g	3.8g

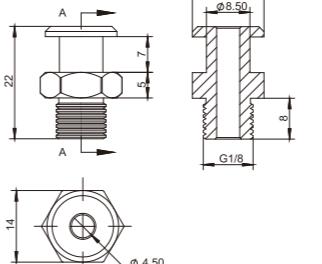
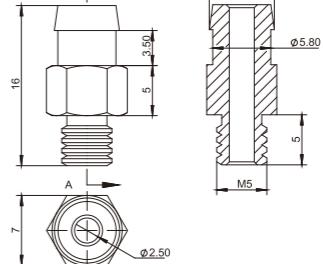
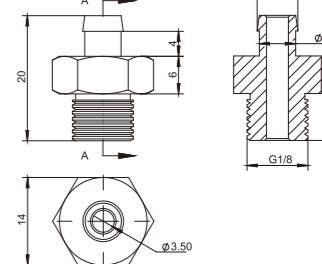
吸盘座 Vacuum Cup Fitting

VCF 01 - G14

系列 Series
编号 NO.
螺牙尺寸 Thread dimension
M5 M8 G1/8 G1/4

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension		  	
型号(Model)	VCF35-M5	VCF36-G18	VCF37-M5
重量(Weight)	3.4g	3.7g	4.3g

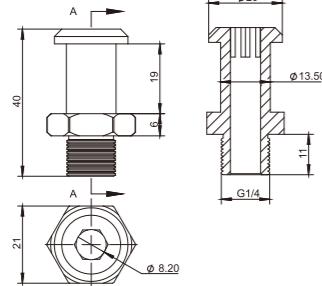
吸盘座 Vacuum Cup Fitting			
尺寸 Dimension		  	
型号(Model)	VM32-G18	VCF33-M5	VCF34-G18
重量(Weight)	4.1g	4.0g	4.3g

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension		  	
型号(Model)	VCF38-G18	VCF39-M5	VCF40-G18
重量(Weight)	4.7g	3.8g	4.1g

吸盘座 Vacuum Cup Fitting

VCF 01 - G14

系列 Series 编号 NO. 螺牙尺寸 Thread dimension
M5 M8 G1/8 G1/4

吸盘座 Vacuum Cup Fitting			
尺寸 Dimension			
型号(Model)	VCF41-G14		
重量(Weight)	14g		

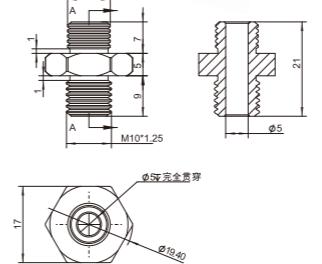
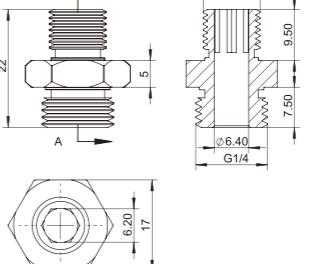
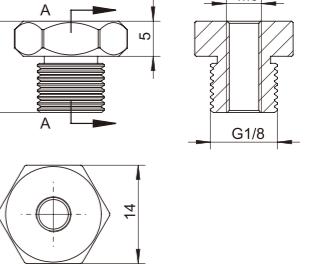
吸盘金具转接头 Vacuum Cup Connector

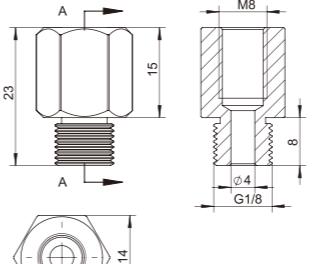
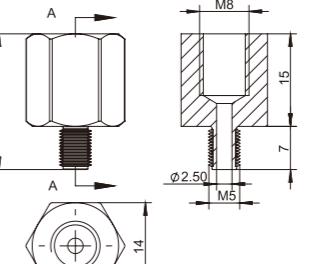
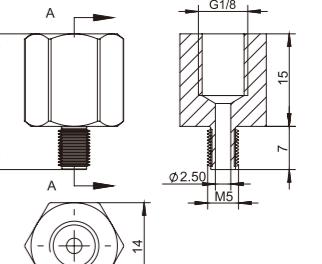
型号表示方法

Model representation methods

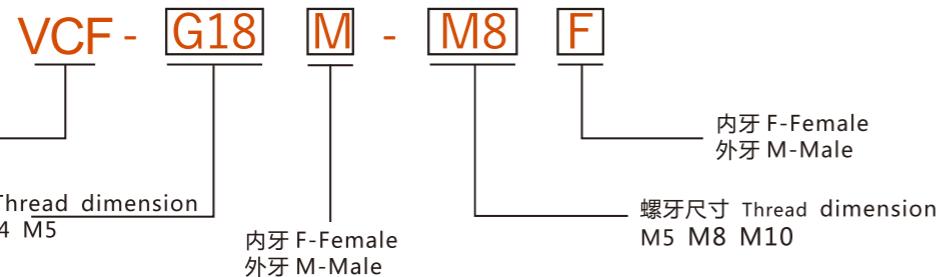
VCF - G18 M - M8 F

系列 Series 螺牙尺寸 Thread dimension
G1/8 G1/4 M5
内牙 F-Female
外牙 M-Male螺牙尺寸 Thread dimension
M5 M8 M10

吸盘金具 转接头 Vacuum Cup Connector			
尺寸 Dimension			
型号(Model)	VCF-G18M-M10M	VCF-G14M-M10M	VCF-G18M-M5F
重量(Weight)	4. 5g	4. 7g	2. 9g

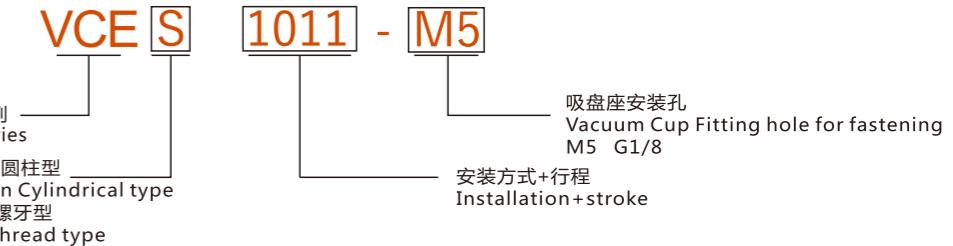
吸盘金具 转接头 Vacuum Cup Connector			
尺寸 Dimension			
型号(Model)	VCF-G18M-M8F	VCF-M5M-M8F	VCF-M5M-G18F
重量(Weight)	6. 2g	5. 6g	4. 9g

吸盘金具转接头 Vacuum Cup Connector

型号表示方法
Model representation methods

吸盘金具 转接头 Vacuum Cup Connector			
尺寸 Dimension			
型号(Model)	VCF-G14M-M8F		
重量(Weight)	6.7g		

真空吸盘悬件 Vacuum Cup Suspensions

型号表示方法
Model representation methods

当机械手移动时，这些悬件可用来保持吸盘的位置。
LADUNG为塑料应用上提供了广泛独特设计。

它们一般通过固定支架安装在治具上。

The suspensions (or buffers, or level compensators) are used to keep the suction cups in position as the robotic hand moves. LADUNG offers a range specifically designed for Plastic applications. They are typically mounted on EAOTs (End Of Arm Tooling) with Mounting brackets.

带平滑主体的悬件
Suspensions with smooth body

VCR
VCN
VCE

非可旋转悬件
Non-rotative suspensions

VCN
VCNS
VCE
VCES

带螺纹主体的悬件
Suspensions with threaded body

VCRS
VCNS
VCES

可旋转悬件
Rotative suspensions

VCR
VCRS

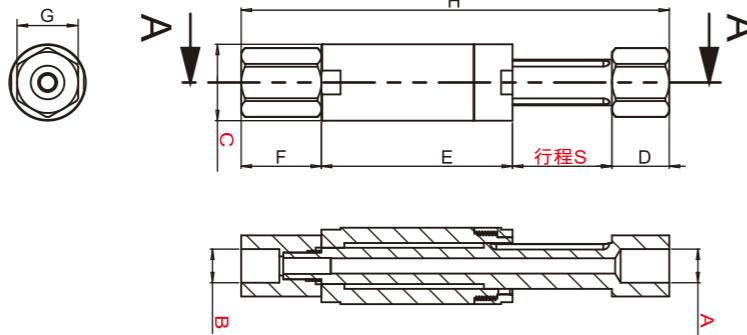


非可旋转悬件 Non-rotative Suspensions

气动剪刀
Air Nipper

主体和杆由阳极铝制成。
拥有高负载能力的非可旋转杆。
压力范围：-1 ~ 8 bar。.

Body and rod in anodized aluminum.
Non-rotative rod with high load capability.
Pressure range: -1 ~ 8 bar.



型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VCN1011-M5	M5	M5	Ø10	10	22	17	8	60	11	7g
VCN1021-M5	M5	M5	Ø10	10	41	17	8	89	21	11g
VCN1421-G18	G1/8	G1/8	Ø14	12	40	20	12	93	21	24g
VCN1436-G18	G1/8	G1/8	Ø14	12	60	20	12	128	36	44g
VCN2026-G18	G1/8	G1/8	Ø20	15	50	21	16	112	26	54g
VCN2051-G18	G1/8	G1/8	Ø20	15	84	21	16	171	51	80g

可旋转悬件 Rotative Suspensions

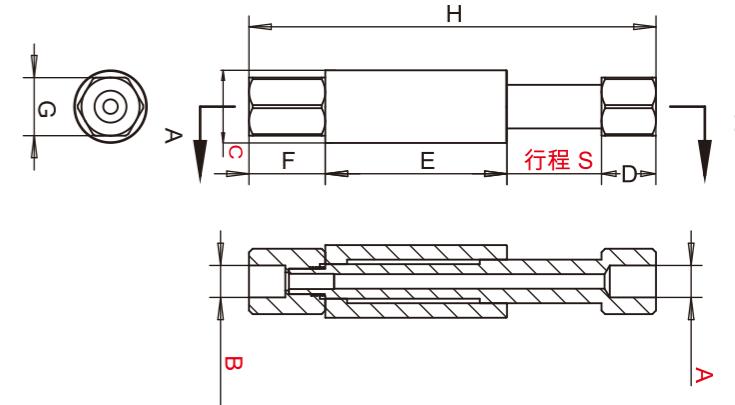
气动剪刀
Air Nipper

主体和杆由阳极铝制成。
可旋转杆。
压力范围：-1 ~ 8 bar.

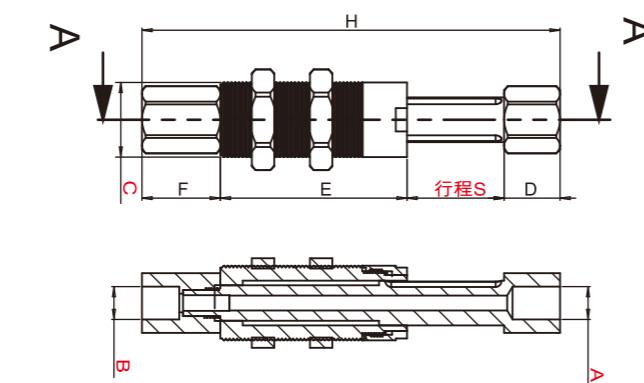


M5为蓝色
M5 is blue

G1/8为黑色
G1/8 is black



型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VCR1011-M5	M5	M5	Ø10	3	22	17	8	53	11	11g
VCR1021-M5	M5	M5	Ø10	3	41	17	8	82	21	17g
VCR1421-G18	G1/8	G1/8	Ø14	12	40	20	12	93	21	23g
VCR1436-G18	G1/8	G1/8	Ø14	12	60	20	12	128	36	40g
VCR2026-G18	G1/8	G1/8	Ø20	15	50	21	16	112	26	50g
VCR2051-G18	G1/8	G1/8	Ø20	15	84	21	16	171	51	77g

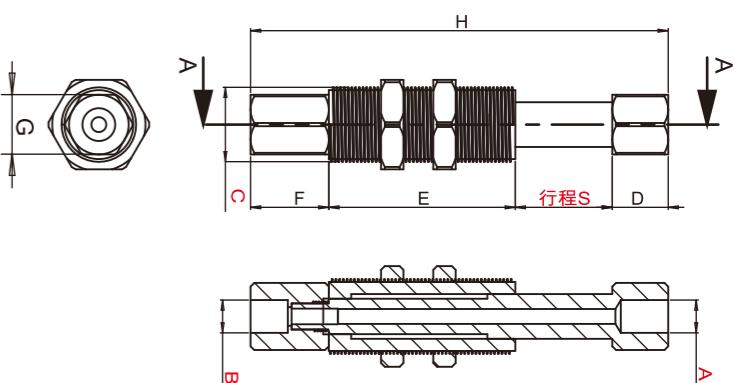


型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VCNS1011-M5	M5	M5	M10*1	10	22	17	8	60	11	12g
VCNS1021-M5	M5	M5	M10*1	10	41	17	8	89	21	39g
VCNS1421-G18	G1/8	G1/8	M14*1	12	40	20	12	93	21	51g
VCNS1621-G18	G1/8	G1/8	M16*1	12	40	20	12	93	21	64g
VCNS1436-G18	G1/8	G1/8	M14*1	12	60	20	12	128	36	72g
VCNS1636-G18	G1/8	G1/8	M16*1	12	60	20	12	128	36	76g
VCNS2026-G18	G1/8	G1/8	M20*1	15	50	21	16	112	26	82g
VCNS2051-G18	G1/8	G1/8	M20*1	15	84	21	16	171	51	120g



M5为蓝色
M5 is blue

G1/8为黑色
G1/8 is black

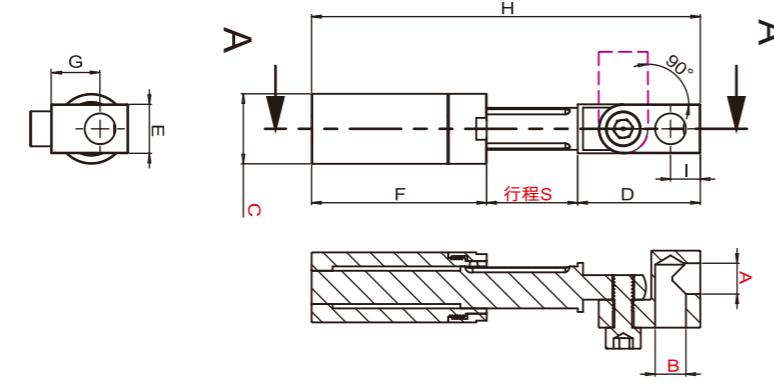


型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VCRS1011-M5	M5	M5	M10*1	3	22	17	8	53	11	14g
VCRS1021-M5	M5	M5	M10*1	3	41	17	8	82	21	26g
VCRS1421-G18	G1/8	G1/8	M14*1	12	40	20	12	93	21	32g
VCRS1621-G18	G1/8	G1/8	M16*1	12	40	20	12	93	21	36g
VCRS1436-G18	G1/8	G1/8	M14*1	12	60	20	12	128	36	60g
VCRS1636-G18	G1/8	G1/8	M16*1	12	60	20	12	128	36	65g
VCRS2026-G18	G1/8	G1/8	M20*1	15	50	21	16	112	26	70g
VCRS2051-G18	G1/8	G1/8	M20*1	15	84	21	16	171	51	104g

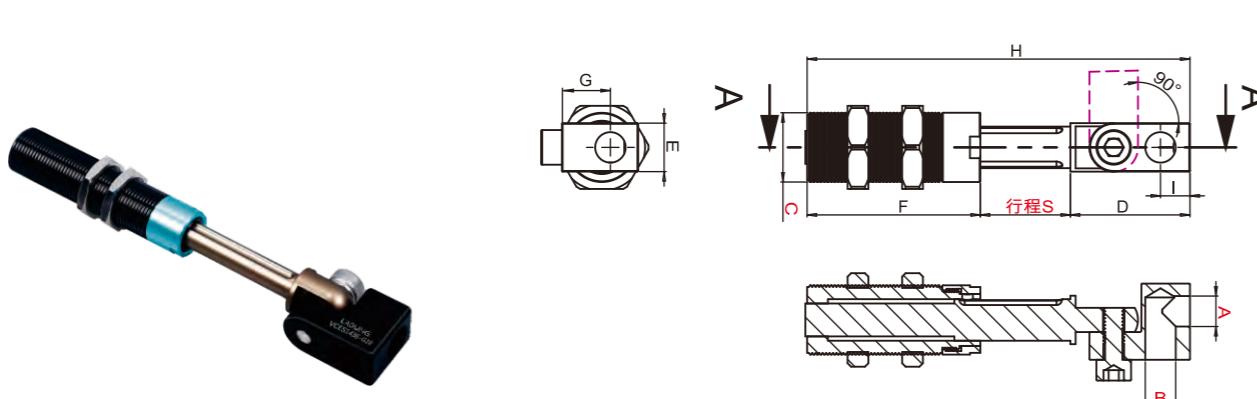
带集成弯臂的非可旋转悬件 Non-rotative Suspensions With Integral Elbow Arms

可在 0° 和 +/-90° 之间不断设置角度。
外部供气。
主体和杆由阳极铝制成。
拥有高负载能力的非可旋转杆。
压力范围：-1 ~ 8 bar。

It is possible to set continuously the angle between 0° and +/-90°.
External air feeding.
Body and rod in anodized aluminum.
Non-rotative rod with high load capability.
Pressure range: -1 ~ 8 bar.



型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VCE1011-M5	M5	M5	Ø10	20	8	22	8	53	11	12g
VCE1021-M5	M5	M5	Ø10	20	8	41	8	81	21	16g
VCE1421-G18	G1/8	G1/8	Ø14	32	14	40	14	93	21	45g
VCE1436-G18	G1/8	G1/8	Ø14	32	14	60	14	128	36	48g
VCE2026-G18	G1/8	G1/8	Ø20	35	14	50	14	111	26	70g
VCE2051-G18	G1/8	G1/8	Ø20	35	14	84	14	169.5	51	105g

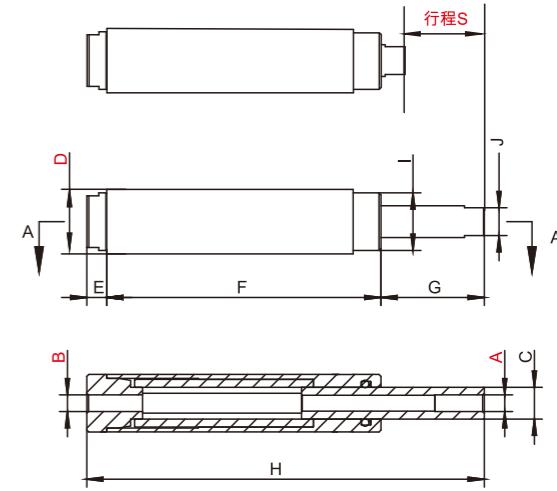


型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VCES1011-M5	M5	M5	M10*1	20	8	22	8	53	11	15g
VCES1021-M5	M5	M5	M10*1	20	8	41	8	81	21	24g
VCES1421-G18	G1/8	G1/8	M14*1	32	14	40	14	93	21	57g
VCES1621-G18	G1/8	G1/8	M16*1	32	14	40	14	93	21	64g
VCES1436-G18	G1/8	G1/8	M14*1	32	14	60	14	128	36	80g
VCES1636-G18	G1/8	G1/8	M16*1	32	14	60	14	128	36	85g
VCES2026-G18	G1/8	G1/8	M20*1	35	14	50	14	111	26	88g
VCES2051-G18	G1/8	G1/8	M20*1	35	14	84	14	169.5	51	125g

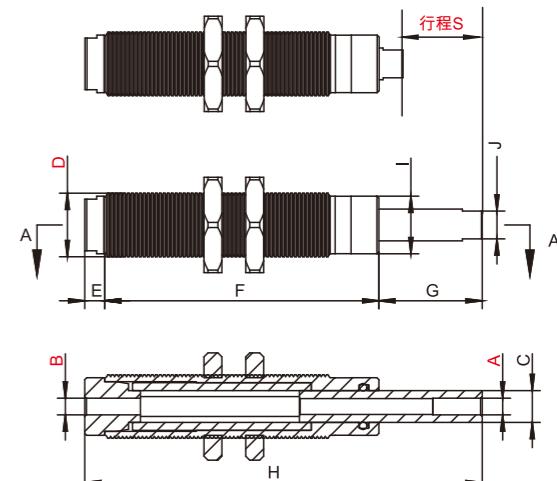
配管固定的非可旋转悬件 Non-rotating suspension for fixed piping

产品采用阳极铝制成。
内置防转塑料活塞。
内置伸缩功能弹簧复位，
尾部真空进气固定式设计。

The product is made of anodic aluminium.
Built-in anti-rotation plastic piston.
Built-in telescopic function of spring reset,
tail vacuum intake fixed design.

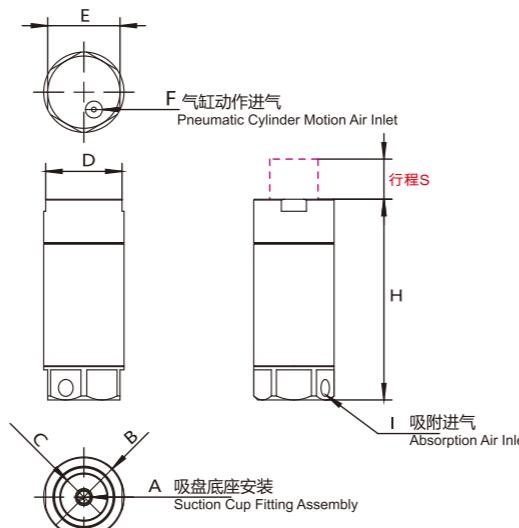


型号(Model)	A	B	C	D	E	F	G	H	I	J	S	Weight(g)
VNR2030-G18	G1/8	G1/8	Ø13	Ø20	8	85	40	133	Ø18	12	30	60



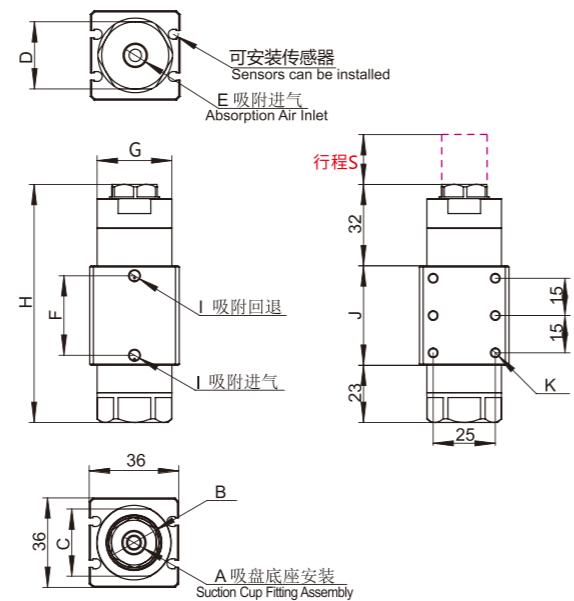
型号(Model)	A	B	C	D	E	F	G	H	I	J	S	Weight(g)
VNRS1620-M5	M5	M5	Ø8	M16X1.0	5	69	26	100	Ø14.5	7	20	42.7
VNRS2030-G18	G1/8	G1/8	Ø13	M20X1.0	8	85	40	133	Ø18	12	30	80

气动吸附金具 The Adsorption Of Pneumatic Fittings



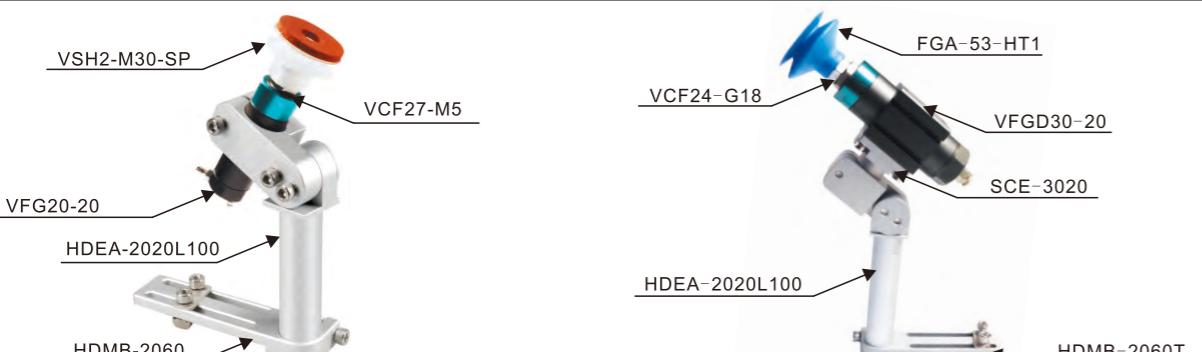
型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	I(mm)	S(mm)	Weight
VFG20-10	M5	Φ20	Φ12	19	18	M5	50	M5	10	35g
VFG20-20	M5	Φ20	Φ12	19	18	M5	65	M5	20	45g
VFG30-20	G1/8	Φ30	Φ20	27	27	G1/8	72	G1/8	20	70g

双动吸附金具 Double action adsorption fittings



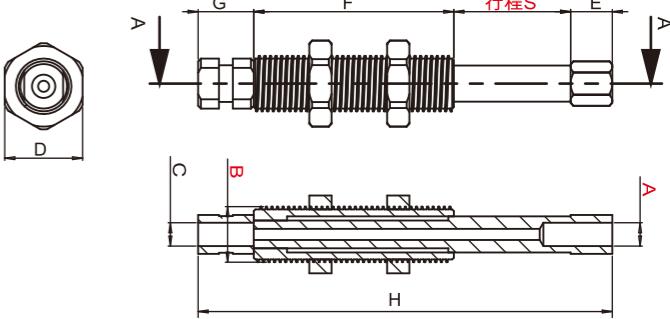
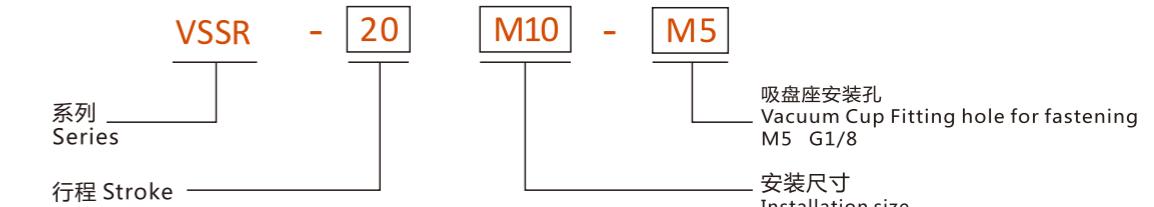
型号(Model)	A	B	C	D	E	F	G	H	I	J	K	S	Weight
VFGD30-20	G1/8	Φ20	27	27	G1/8	32	Φ30	95	M5	40	M4	20	198.2g

安装示意图 Installation diagram

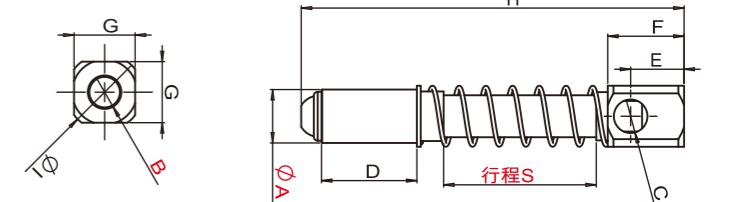


吸着金具 Suction Stems

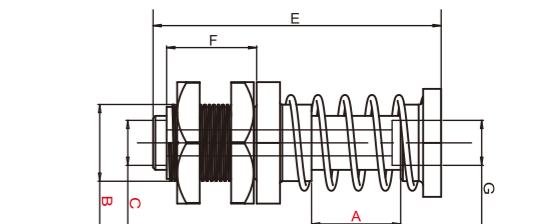
型号表示方法
Model representation methods



型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	Weight(g)
VSSR-20M10-M5	M5	M10*1	M5	14	7	36	10	73.5	20	27g
VSSR-20M16-G18	G1/8	M16*1	G1/8	21	4	36	15	77	20	76g

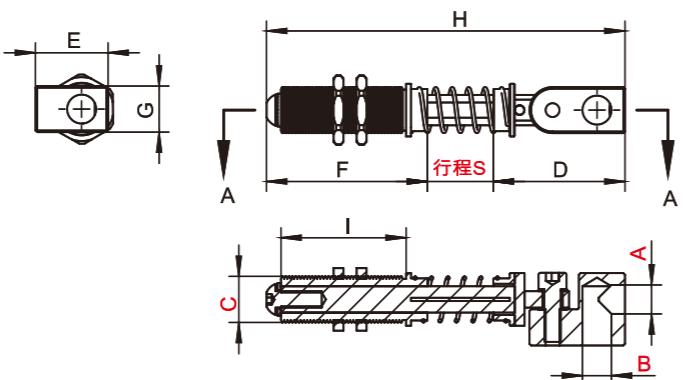


型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
VSSM-4014-G18	Ø14	G1/8	G1/8	25	14	20	16	100	Ø20	40	48g
VSSM-2020-G14	Ø20	G1/4	G1/8	48	15	26	22	113	Ø27	20	136g



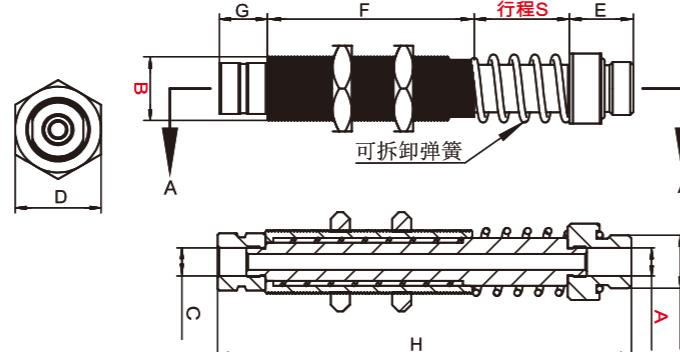
型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	Weight(g)
VSSL-20M17-G18	20	M17*1	G1/8	27	64	20	G1/8	119g

吸着金具 Suction Stems



型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
VSST-20M14-G18	G1/8	G1/8	M14X1.0	40	22	49	14	109	38	20	97g
VSST-40M14-G18	G1/8	G1/8	M14X1.0	40	22	64	14	144	50	40	123g

NEW

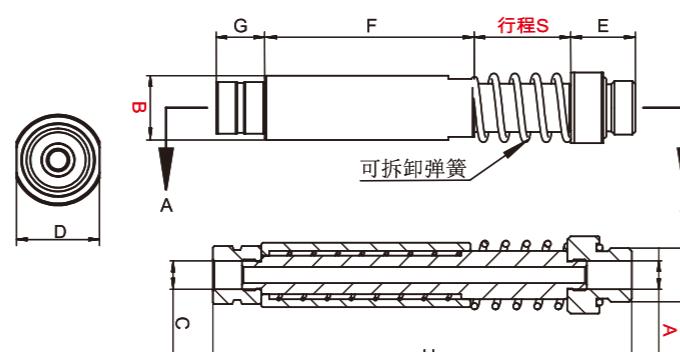


型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
VSST-30M20-G38F-G18M	G1/8	M20*1	G1/8	27	20	65	15	130	G3/8	30	260g

*安装单弹簧时,所能承受的压力为7N-18N。安装双弹簧时,所能承受的压力为60N-150N

*When installing a single spring, the pressure it can bear is 7N-18N. When installing the double spring, the pressure that can bear is 60N-150N.

NEW

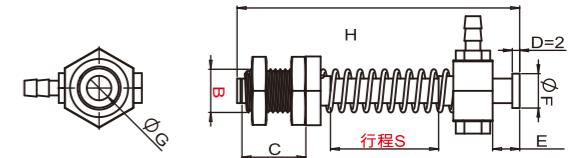


型号(Model)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	S(mm)	Weight(g)
VSSH-30M20-G38F-G18M	G1/8	Ø20	G1/8	22	20	65	15	130	G3/8	30	235g

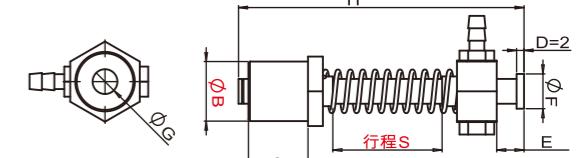
*安装单弹簧时,所能承受的压力为7N-18N。安装双弹簧时,所能承受的压力为60N-150N

*When installing a single spring, the pressure it can bear is 7N-18N. When installing the double spring, the pressure that can bear is 60N-150N.

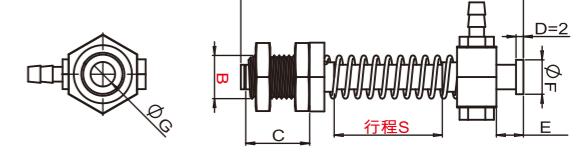
吸着金具 Suction Stems



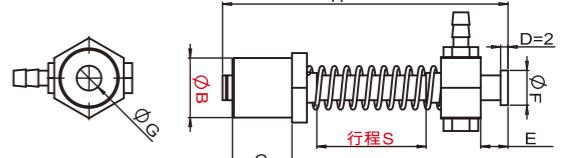
型号(Model)	B(mm)	C(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VFIL1-5M10	M10*1	18	5.5	Ø7	Ø3.4	49	5	14g
VFIL1-10M10	M10*1	18	5.5	Ø7	Ø3.4	54	10	15g
VFIL1-20M10	M10*1	18	5.5	Ø7	Ø3.4	64	20	15g
VFIL1-30M10	M10*1	18	5.5	Ø7	Ø3.4	74	30	16g



型号(Model)	B(mm)	C(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VFIL2-5P8	Ø8	18	5.5	Ø7	Ø3.4	49	5	9g
VFIL2-5P12	Ø12	18	5.5	Ø7	Ø3.4	49	5	13g
VFIL2-10P8	Ø8	18	5.5	Ø7	Ø3.4	54	10	9g
VFIL2-10P12	Ø12	18	5.5	Ø7	Ø3.4	54	10	14g
VFIL2-20P8	Ø8	18	5.5	Ø7	Ø3.4	64	20	10g
VFIL2-20P12	Ø12	18	5.5	Ø7	Ø3.4	64	20	14g
VFIL2-30P8	Ø8	18	5.5	Ø7	Ø3.4	74	30	11g
VFIL2-30P12	Ø12	18	5.5	Ø7	Ø3.4	74	30	15g



型号(Model)	B(mm)	C(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
VFIL-5M12	M12*1	18	9	Ø11	Ø4.6	52.5	5	20g
VFIL-10M12	M12*1	18	9	Ø11	Ø4.6	57.5	10	21g
VFIL-20M12	M12*1	18	9	Ø11	Ø4.6	67.5	20	22g
VFIL-30M12	M12*1	18	9	Ø11	Ø4.6	77.5	30	24g



型号(Model)	B(mm)	C(mm)	E(mm)	F(mm)	G(mm)	H(mm)	S(mm)	Weight(g)
FIL1-5P12	Ø12	18	9	Ø11	Ø4.6	52.5	5	15g
FIL1-5P20	Ø20	18	9	Ø11	Ø4.6	52.5	5	29g
FIL1-10P12	Ø12	18	9	Ø11	Ø4.6	57.5	10	16g
FIL1-10P20	Ø20	18	9	Ø11	Ø4.6	57.5	10	29g
FIL1-20P12	Ø12	18	9	Ø11	Ø4.6	67.5	20	18g
FIL1-20P20	Ø20	18	9	Ø11	Ø4.6	67.5	20	31g
FIL1-30P12	Ø12	18	9	Ø11	Ø4.6	77.5	30	19g
FIL1-30P20	Ø20	18	9	Ø11	Ø4.6	77.5	30	32g

电磁阀 VUVG-LK 管式阀 Solenoid Valve VUVG-LK

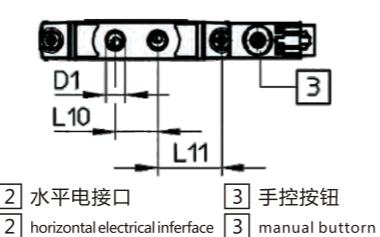
单个管式阀 VUVG-LK, 24VDC, 内先导,接线盒H2 带0.5米电缆
Single pipe valve VUVG-LK, 24VDC, Inner leader H2 Junction box with 0.5m cable



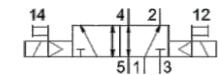
M52, 两位五通,
单电控, 气复位
M52 Two-position five-way
single electronic control air reset



附件
密封垫 (一包10个)
accessory
seal a pack of ten



型号(Model)	B1	D2	H1	H3	L3	L4	L7	L8	L9	L10	L11	L12	L13	L14	流量参数 (l/min)
VUVG-LK14-M52-AT-G18-1H2L-S	14.4	3.3	34.8	3.2	40.1	37	66.5	18.4	14.9	17	24.8	95.6	94.4	17.7	660



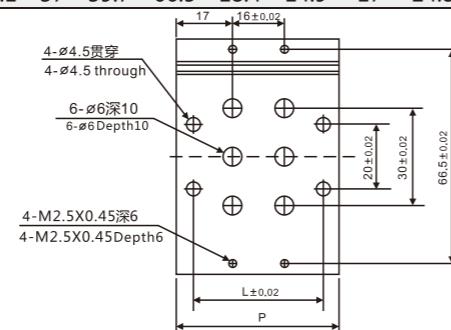
B52, 两位五通, 双电控
B52 Two-position double
electronic control



附件
密封垫 (一包10个)
accessory
seal a pack of ten



型号(Model)	B1	D2	H1	H3	L1	L2	L3	L4	L5	L7	L8	L9	L10	L11	流量参数 (l/min)
VUVG-LK14-B52-T-G18-1H2L-W1-S	14.4	3.3	34.8	3.2	118.9	116.4	40.1	37	39.7	66.5	18.4	14.9	17	24.8	660



型号(Model)	VUVG1/8-LK-2F	VUVG1/8-LK-3F	VUVG1/8-LK-4F	VUVG1/8-LK-5F	VUVG1/8-LK-6F	VUVG1/8-LK-7F	VUVG1/8-LK-8F	VUVG1/8-LK-9F	VUVG1/8-LK-10F
连数(Row)	2	3	4	5	6	7	8	9	10
L	40	56	72	88	104	120	136	152	168

型号(Model)	VUVG1/8-LK-11F	VUVG1/8-LK-12F	VUVG1/8-LK-13F	VUVG1/8-LK-14F	VUVG1/8-LK-15F	VUVG1/8-LK-16F	VUVG1/8-LK-17F	VUVG1/8-LK-18F	VUVG1/8-LK-19F	VUVG1/8-LK-20F
连数(Row)	11	12	13	14	15	16	17	18	19	20
L	184	200	216	232	248	264	280	296	312	328

型号(Model)	VUVG1/8-LK-11F	VUVG1/8-LK-12F	VUVG1/8-LK-13F	VUVG1/8-LK-14F	VUVG1/8-LK-15F	VUVG1/8-LK-16F	VUVG1/8-LK-17F	VUVG1/8-LK-18F	VUVG1/8-LK-19F	VUVG1/8-LK-20F
连数(Row)	11	12	13	14	15	16	17	18	19	20
P	194	210	226	242	258	274	290	306	322	338

Compact 10CE 集成式真空发生器 Compact 10CE Integrated vacuum generator

数据表所指明的数值可进行测试 :

- 室温 (20°C [68°F] ± 3°C [5.5°F])。
- 标准大气压 (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])。
- 相对湿度 : 35-85%, 无冷凝。
- 压缩空气质量 , DIN ISO 8573-1 class 4 标准。

Values specified in the data sheet are tested at:

- Room temperature (20°C [68°F] ± 3°C [5.5°F])
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])
- Relative humidity: 35-85%, non condensation
- Compressed air quality DIN ISO 8573-1 class 4 standard



*连接线材长为两米 The wire's length is 2 meters

型号(Model)	类型(Type)
COMPACT10E PNP	PNP
COMPACT10E NPN	NPN

技术参数/Technical data

说明 Description	单位 Unit	值 Value
推荐进气压力 Recommended feed pressure	Mpa	0.5
最大进气压力 Feed pressure, max.	Mpa	0.7
温度范围 Temperature range	°C	0-50
重量* Weight*	g	74
材料 Material	-	PA, AL, CuZn, PE, NBR, PC, SS, TPV, FKM, Steel, Glass epoxy
1-8 个真空通道条件下的噪音等级范围 Noise level range of 1-8 vacuum channels	dB	46-60
连接, 压缩空气 Connection, compressed air	-	ø6 推入式连接器 ø6 push-in connector
连接, 真空 Connection, vacuum	-	ø6 推入式连接器 ø6 push-in connector

) 注意! 重量不包括运输中包含的电缆。) Note! The weight does not include the cables that are included in the shipping.

阀门模块/Valve module

说明 Description	单位 Unit	值 Value
阀门功能 Valve function	-	NC 真空常闭 + NC 吹气常闭 NC vacuum normally closed + NC blowing normally closed
电源电压 Supply voltage	VDC	24 (21.6 – 26.4)
功率 Power	W	3.5
响应时间 Response time	ms	≤ 3
电气连接 Electrical connection	-	Supplied cable, Red (+) Black (-)

真空传感器/Vacuum sensor

说明 Description	单位 Unit	值 Value
电源电压 Supply voltage	VDC	12-24 ±10%, 波动 P-P 10% 或更低 12-24 ±10%, Fluctuation P-P 10% or less
电流消耗(无负载) Current consumption (with no load)	mA	≤ 40
切换输出 Switch output	-	NPN
响应时间 Response time	ms	≤ 2,5
模拟输出 Analog output	VDC	1-5 ±2.5% F.S.
电气连接 Electrical connection	-	JST PAP-05V

Compact 10CE 集成式真空发生器 Compact 10CE Integrated vacuum generator

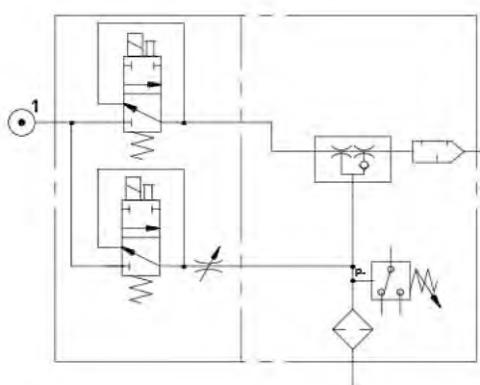
真空流量/Vacuum flow

供气压力真空泵/喷嘴 Feed pressure vacuum pump/nozzle	每个泵/喷嘴的空气消耗量 Air consumption per pump/nozzle	不同真空度 (-kPa) 下的真空流量 (NI/s) Vacuum flow (NI/s) under different vacuum degrees (-kPa)								最大真空度 Max vacuum
Mpa	NI/s	0	10	20	30	40	50	60	70	-kpa
0.50/0.40	0.23	0.26	0.24	0.19	0.14	0.088	0.063	0.045	0.023	84

抽真空时间/Vacuum time

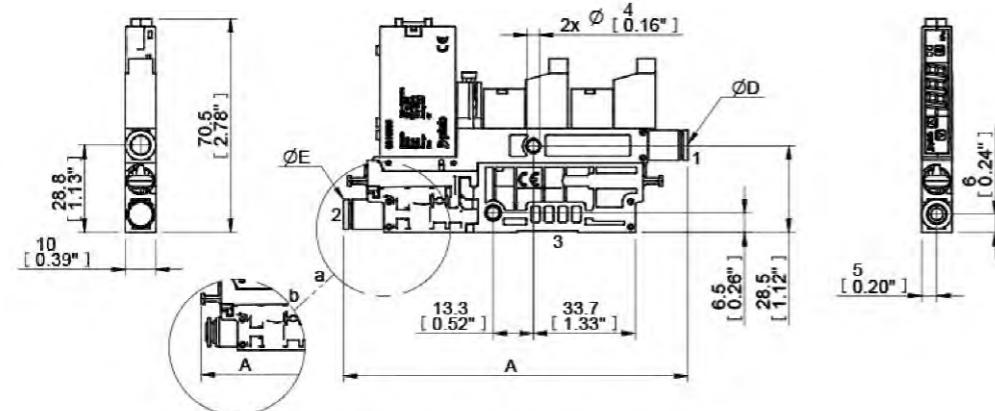
供气压力真空泵/喷嘴 Feed pressure vacuum pump/nozzle	每个泵/喷嘴的空气消耗量 Air consumption per pump/nozzle	达到不同真空度 (-kPa) 的抽气时间 Pumping time to different vacuum (-kPa)								最大真空度 Max vacuum
Mpa	NI/s	10	20	30	40	50	60	70	80	-kpa
0.50/0.40	0.23	0.40	0.87	1.49	2.38	3.71	5.57	8.52	15.44	84

外形尺寸/Dimensions



说明 Description	单位 Unit	值 Value
A	mm	113.6
ΦD	mm	Φ6
ΦE	mm	Φ6

配置 Configuration	值 Value
a	ø6 推入式连接器 ø6 push-in connector



订购信息/Ordering information

说明 Description	产品代码 Product code
COMPACT10E, 超高真空流量 (micro), 显示屏, 模拟和数字输出, NPN, ø6 推入式连接器, 1 通道, ø6 推入式连接器, 集成式消音器, NC 真空常闭 + NC 吹气常闭 COMPACT10E, ultra high vacuum flow (micro), display screen, analog and digital output, NPN, ø6 push in connector, 1 channel, ø6 push in connector, integrated muffler, NC vacuum normally closed + NC blowing normally closed	C10E.T.BB.6.1.6.EJ.CC

VLCLASSIC XI x 2 真空发生器 VLCLASSIC XI x 2 Vacuum Generator

型号(Model)
VLCLASSIC XI x 2

概述/Summary

物料 Materiel	CuZn, NBR (FKM), PA, SS, Al	
噪音 Noise level	64 – 69 dBA	
温度范围 Temperature	-10 – 80 °C	
重量 Weight	550 g	
消音器重量 Muffler weight	120 g	

性能/Performance

最大进气压力 Feed pressure, max.	0.7 MPa
最佳进气压力 Feed pressure, optimum	0.45 MPa
最大真空度 Max vacuum	95 -kPa

气动参数/Aerodynamic parameters

内部容积 Internal volume	140 cm³
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真空流量/Vacuum flow (NI/s)

进气压力 Feed pressure	耗气量 Gas consumption	真空流量 (NI/s) @ 真空度 (-kPa) Vacuum flow (NI/s) @ vacuum (-kPa)										最大真空度 Max vacuum
		0	10	20	30	40	50	60	70	80	90	
0.45	3.66	11.8	6	4	2.6	1.46	1.16	0.86	0.64	0.36	0.06	95

排气时间/Exhaust time (s/l)

进气压力 Feed pressure	耗气量 Gas consumption	排气时间 (s/l) 真空度 (-kPa) Exhaust time (s/l) Vacuum (-kPa)									最大真空度 Max vacuum
		10	20	30	40	50	60	70	80	90	
0.45	3.66	0.011	0.031	0.06	0.11	0.19	0.29	0.42	0.6	1.1	95

数据表所指明的数值可进行测试：

The values indicated in the data sheet can be tested:

室温 Room temperature	(20 °C [68 °F] ± 3 °C [5.5 °F])									
标准大气压 Standard atmosphere	(101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])									
相对湿度 Relative humidity	0-100%									
压缩空气质量 Compressed air quality	DIN ISO 8573-1 class 4									