

Vacuum Cylinder

Now various vacuum cups can be installed on Vacuum Cylinder

M4 and M6 female threaded connecting hole

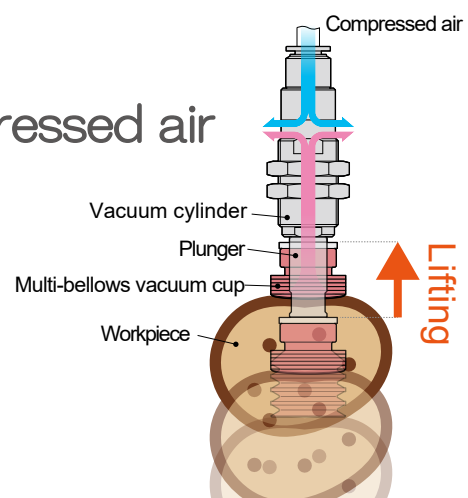
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■ $\varnothing 0.7 \sim \varnothing 50 \text{ mm}$ dia. of the following vacuum cups can be installed on the vacuum cylinder

Cup type	Standard			Skidproof	Bellows	Multi-bellows
	Plane	Spheric	Miniature			
Cup dia. (mm)	$\varnothing 1 \sim \varnothing 50$	$\varnothing 15 \sim \varnothing 50$	$\varnothing 0.7 \sim \varnothing 4$	$\varnothing 10 \sim \varnothing 50$	$\varnothing 6 \sim \varnothing 50$	$\varnothing 10 \sim \varnothing 50$
Soft bellows	Extra thin object	Flat	Flat high flow	Mark-free	Sponge	Oval
$\varnothing 6 \sim \varnothing 20$	$\varnothing 8 \sim \varnothing 20$	$\varnothing 10 \sim \varnothing 30$	$\varnothing 10 \sim \varnothing 30$	$\varnothing 10 \sim \varnothing 30$	$\varnothing 10 \sim \varnothing 50$	$2 \times 4 \sim 8 \times 30$

Self-retracting lifter run by compressed air



Model Designation (Example) for Vacuum Cylinder body alone

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VSPE -M4 -5 -4J

① Vacuum cylinder

② Cup type, size and connecting code

③ Stroke

④ Vacuum port size

Code	-4J	-6J
Push-in connection		
Tubing O.D. (mm)	ø4	ø6

Code	-5	-10	-20	-30
Stroke (mm)	5	10	20	30

Code	-M4	-M6	
Connecting	Screw mounting	Screw mounting	
Cup dia. (mm) · Cup type code	ø0.7	RM	
	ø1	R, RM	
	ø1.5	RM	
	ø2	R, RM	
	ø3	R, RM	
	ø4	R, RM	
	ø6	R, B	
	ø8	R, B, P	
	ø10	R, K, B, W, P, F, FH, Q	S
	ø15	R, A, B, P, F, FH	S
	ø20	P	R, A, K, B, W, F, FH, Q, S
	ø25	—	R, A, B, F, FH, S
	ø30	—	R, A, K, B, W, F, FH, Q, S
ø35	—	S	
ø40	—	R, A, K, B, W	
ø50	—	R, A, K, B, W, S	

Code	-M6	
Connecting	Screw mounting	
Cup size (mm) · Cup type code	2x4	E
	3.5x7	E
	4x10	E
	4x20	E
	4x30	E
	5x10	E
	5x20	E
	5x30	E
6x10	E	
6x20	E	
6x30	E	
8x20	E	
8x30	E	

Note) Each Cup type code means;
R: Standard plane, A: Standard spheric, RM: Standard miniature, K: Skidproof, B: Bellows, W: Multi-bellows,
P: Thin object, F: Flat, FH: High flow flat, Q: Mark-free, S: Sponge, E: Oval

Figure out what combination you need

⚠ Detailed Safety Instructions

Before using PISCO products, be sure to read "Safety Instructions" and "Safety Instruction Manual" and "Common Safety Instructions for Vacuum Pad".

Warning

1. Minimize the load on ejector and shaft parts from the transverse direction. Vacuum cylinder may be damaged.
2. Avoid any tensile strength and twisting force on the fitting part. Vacuum cylinder may be damaged.
3. When installing bulkhead part, refer to the recommended tightening torque in "Common Safety Instructions for Vacuum Pads". Make sure that there is no looseness of the screw.

Caution

1. Silencer element is not replaceable.
2. Refer to "Common Safety Instructions for Vacuum Series" for handling the ejector and vacuum pads.

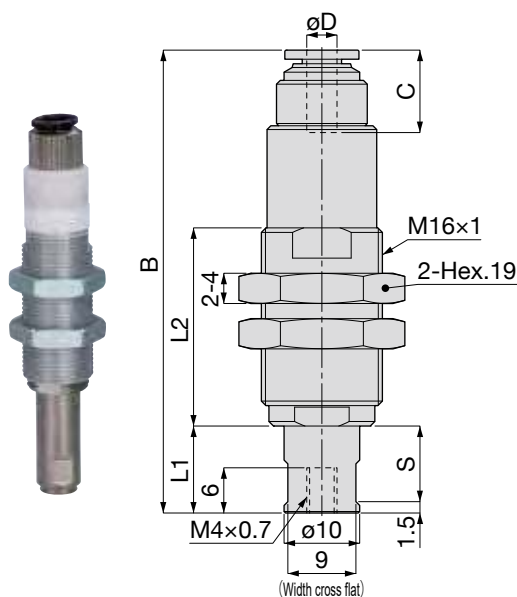
Dimensions

VSPE

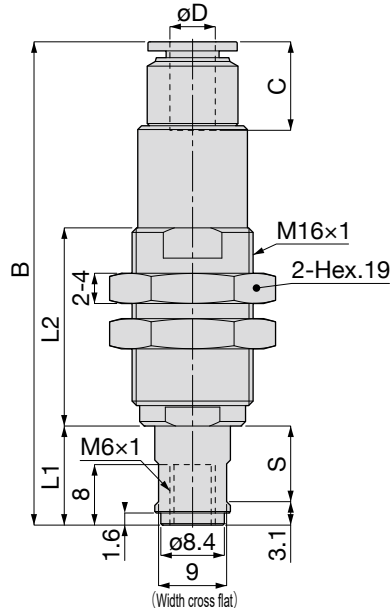
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Vacuum cylinder alone

VSPE-M4³₄



VSPE-M6³₄



Unit : mm

Model	Tubing dia. øD	B	L1	L2	Tube end C	Stroke S	Weight (g)	Price (\$)	Cup connecting code
VSPE-M4-5-4J	4	51.2	6.5	21.2	10.9	5	31	36.36	-M4
VSPE-M4-5-6J	6	52.3			11.7			36.36	
VSPE-M4-10-4J	4	61.2	11.5	26.2	10.9	10	34	37.27	
VSPE-M4-10-6J	6	62.3			11.7			37.27	
VSPE-M4-20-4J	4	81.2	21.5	36.2	10.9	20	39	38.18	
VSPE-M4-20-6J	6	82.3			11.7		38	38.18	
VSPE-M4-30-4J	4	101.2	31.5	46.2	10.9	30	43	39.09	
VSPE-M4-30-6J	6	102.3			11.7			39.09	
VSPE-M6-5-4J	4	52.8	8.1	21.2	10.9	5	31	36.36	-M6
VSPE-M6-5-6J	6	53.9			11.7			36.36	
VSPE-M6-10-4J	4	62.8	13.1	26.2	10.9	10	34	37.27	
VSPE-M6-10-6J	6	63.9			11.7		33	37.27	
VSPE-M6-20-4J	4	82.8	23.1	36.2	10.9	20	39	38.18	
VSPE-M6-20-6J	6	83.9			11.7		38	38.18	
VSPE-M6-30-4J	4	102.8	33.1	46.2	10.9	30	43	39.09	
VSPE-M6-30-6J	6	103.9			11.7			39.09	

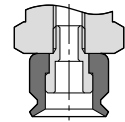
Vacuum cylinder model and applicable cups

● Cup dia.: $\phi 0.7$, $\phi 1$, $\phi 1.5$, $\phi 2$, $\phi 3$, $\phi 4$, $\phi 6$, $\phi 8$, $\phi 10$, $\phi 15$ and ($\phi 20$ mm of Thin object type) —

Cup connecting code **-M4**

VSPE-M4 3 4

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M4 Screw mounting

Standard plane type cup+connecting screw

Model code for set	Cup dia.
VP1R[5]-M4	ø1mm
VP2R[5]-M4	ø2mm
VP3R[5]-M4	ø3mm
VP4R[5]-M4	ø4mm
VP6R[5]-M4	ø6mm
VP8R[5]-M4	ø8mm
VP10R[5]-M4	ø10mm
VP15R[5]-M4	ø15mm

Standard spheric type cup+connecting screw

Model code for set	Cup dia.
VP15A[5]-M4	ø15mm

Skidproof type cup+connecting screw

Model code for set	Cup dia.
VP10K[5]-M4[9]	ø10mm

Standard miniature type cup+connecting screw

Model code for set	Cup dia.
VP0.7RM[5]-M4	ø0.7mm
VP1RM[5]-M4	ø1mm
VP1.5RM[5]-M4	ø1.5mm
VP2RM[5]-M4	ø2mm
VP3RM[5]-M4	ø3mm
VP4RM[5]-M4	ø4mm

Bellows type cup+connecting screw

Model code for set	Cup dia.
VP6B[5]-M4	ø6mm
VP8B[5]-M4	ø8mm
VP10B[5]-M4	ø10mm
VP15B[5]-M4	ø15mm

Mark-free resin attachment (Option)

Model code for resin	Cup dia.
VP10BQ[8]-AT	ø10mm
VP15BQ[8]-AT	ø15mm

Multi-bellows type cup+connecting screw

Model code for set	Cup dia.
VP10W[5]-M4	ø10mm

Extrathin object type cup+connecting screw

Model code for set	Cup dia.
VP8P[5]-M4	ø8mm
VP10P[5]-M4	ø10mm
VP15P[5]-M4	ø15mm
VP20P[5]-M4	ø20mm

Mark-free type cup+Flexible fitting

Model code for set	Cup dia.
VP10Q[5]-M4	ø10mm

Flat type cup+connecting screw

Model code for set	Cup dia.
VP10F[5]-M4	ø10mm
VP15F[5]-M4	ø15mm

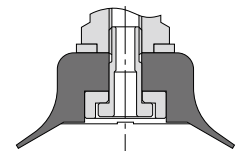
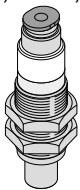
Flat high flow type cup+connecting screw

Model code for set	Cup dia.
VP10FH[5]-M4	ø10mm
VP15FH[5]-M4	ø15mm

● Cup dia. : ($\phi 10$, $\phi 15$ for Sponge type), $\phi 20$, $\phi 25$, $\phi 30$, $\phi 40$, $\phi 50$ mm

Oval: 2×4 , 3.5×7 , 4×10 , 4×20 , 4×30 , 5×10 , 5×20 , 5×30 , 6×10 , 6×20 , 6×30 , 8×20 , 8×30 mm

VSPE-M6 3 4



M6 Screw mounting

Standard plane type cup+connecting screw

Model code for set	Cup dia.
VP20R[5]-M6	ø20mm
VP25R[5]-M6	ø25mm
VP30R[5]-M6	ø30mm

Standard spheric type cup+connecting screw

Model code for set	Cup dia.
VP20A[5]-M6	ø20mm
VP25A[5]-M6	ø25mm
VP30A[5]-M6	ø30mm

Skidproof type cup+connecting screw

Model code for set	Cup dia.
VP20K[5]-M6	ø20mm
VP30K[5]-M6	ø30mm

Standard plane type cup+connecting screw

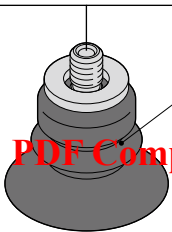
Model code for set	Cup dia.
VP40R[5]-M6	ø40mm
VP50R[5]-M6	ø50mm

Standard spheric type cup+connecting screw

Model code for set	Cup dia.
VP40A[5]-M6	ø40mm
VP50A[5]-M6	ø50mm

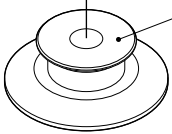
Skidproof type cup+connecting screw

Model code for set	Cup dia.
VP40K[5]-M6	ø40mm
VP50K[5]-M6	ø50mm



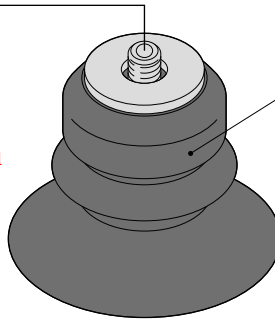
Bellows type cup+connecting screw

Model code for set	Cup dia.
VP20B[5]-M6	ø20mm
VP25B[5]-M6	ø25mm
VP30B[5]-M6	ø30mm



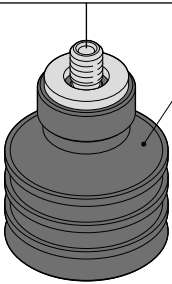
Mark-free resin attachment (Option)

Model code for resin	Cup dia.
VP20BQ[8]-AT	ø20mm
VP25BQ[8]-AT	ø25mm
VP30BQ[8]-AT	ø30mm



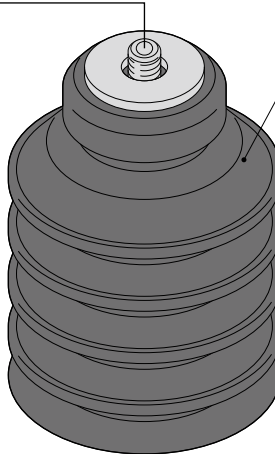
Bellows type cup+connecting screw

Model code for set	Cup dia.
VP40B[5]-M6	ø40mm
VP50B[5]-M6	ø50mm



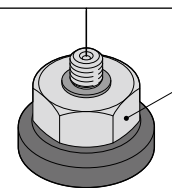
Multi-bellows type cup+connecting screw

Model code for set	Cup dia.
VP20W[5]-M6	ø20mm
VP30W[5]-M6	ø30mm



Multi-bellows type cup+connecting screw

Model code for set	Cup dia.
VP40W[5]-M6	ø40mm
VP50W[5]-M6	ø50mm

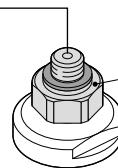


Flat type cup+connecting screw

Model code for set	Cup dia.
VP20F[5]-M6	ø20mm
VP25F[5]-M6	ø25mm
VP30F[5]-M6	ø30mm

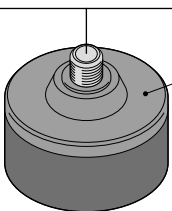
Flat high flow type cup+connecting screw

Model code for set	Cup dia.
VP20FH[5]-M6	ø20mm
VP25FH[5]-M6	ø25mm
VP30FH[5]-M6	ø30mm



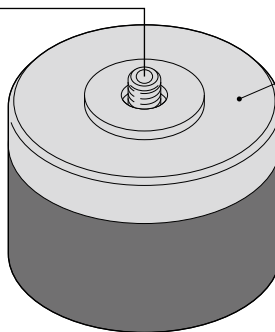
Mark-free type cup+Flexible fitting

Model code for set	Cup dia.
VP20Q[5]-M6	ø20mm
VP30Q[5]-M6	ø30mm



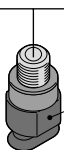
Sponge type cup+Frame with screw

Model code for set	Cup dia.
VP10S[5]-M6	ø10mm
VP15S[5]-M6	ø15mm
VP20S[5]-M6	ø20mm
VP25S[5]-M6	ø25mm
VP30S[5]-M6	ø30mm



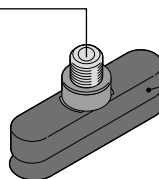
Sponge type cup+Frame with screw

Model code for set	Cup dia.
VP35S[5]-M6	ø35mm
VP50S[5]-M6	ø50mm



Oval type cup+connecting screw

Model code for set	Cup size
VP2×4E[5]-M6	2×4mm
VP3.5×7E[5]-M6	3.5×7mm
VP4×10E[5]-M6	4×10mm
VP5×10E[5]-M6	5×10mm
VP6×10E[5]-M6	6×10mm



Oval type cup+connecting screw

Model code for set	Cup size
VP4×20E[5]-M6	4×20mm
VP4×30E[5]-M6	4×30mm
VP5×20E[5]-M6	5×20mm
VP5×30E[5]-M6	5×30mm
VP6×20E[5]-M6	6×20mm
VP6×30E[5]-M6	6×30mm
VP8×20E[5]-M6	8×20mm
VP8×30E[5]-M6	8×30mm