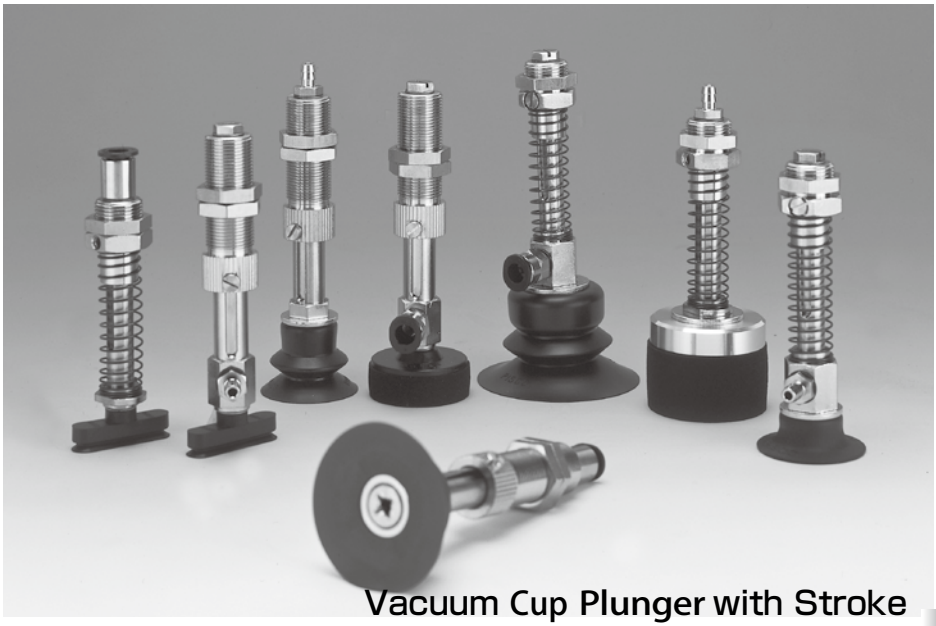


Vacuum Cup Plunger with Stroke

Spring Level Compensators

- *Suitable for work-pieces with different height*
- *Various selections of **cup** size and material.*

■ Cup type: Standard, Sponge, Bellows, Multi-bellows, Oval, Skidproof, Flat, Thin object and Mark-free.

■ Cup size：Standard(General) → ø0.7, ø1, ø2, ø3, ø4, ø6, ø8, ø10, ø15, ø20, ø25, ø30, ø40, ø50, ø60, ø80, ø100, ø150, ø200 mm
Standard (Deep) → ø15, ø20, ø25, ø30, ø40, ø50, ø60, ø80, ø100mm
Sponge → ø10, ø15, ø20, ø25, ø30, ø35, ø50, ø70, ø100mm
Bellows → ø6 , ø8 , ø10、 ø15, ø20, ø25, ø30, ø40, ø50, ø60, ø80, ø100mm
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, 8×30mm
Skidproof → ø10, ø20, ø30, ø40, ø50mm
Flat → ø10, ø15, ø20, ø25, ø30mm
Mark-free → ø10, ø20, ø30mm
Thin work-piece → ø8, ø10, ø15, ø20mm

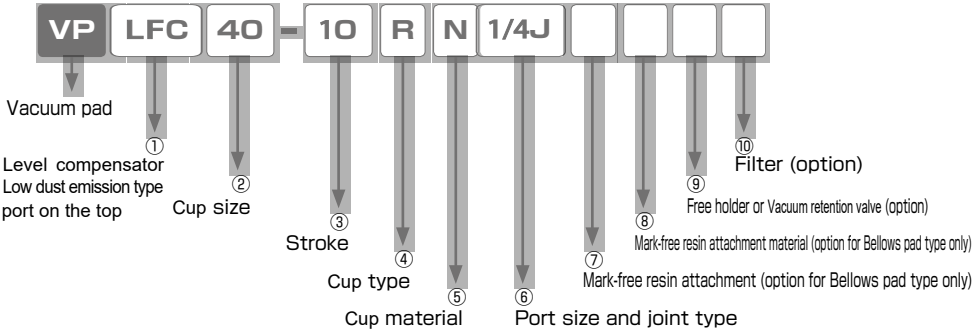
■ Cup material：Nitrile rubber, Silicone rubber, Urethane rubber, Fluoro rubber, Fluorosilicone rubber
Conductive Silicone rubber, Conductive Butadiene rubber (Low resistance type),
Conductive NBR (Low resistance type), Oilproof NBR (Low resistance type),
NBR suited to the Japan food sanitation act., Chloroprene rubber (Sponge type),
Silicone rubber (Sponge type), HNBR, EPDM, PEEK, POM, Conductive PEEK

■ Plunger type ： 5 types - original plunger inner spring, outer spring, slim, small, low dust emission

■ Stroke ： selection from - 2mm, 3mm, 4mm, 5mm, 6mm, 10mm, 15mm, 20mm, 30mm, 40mm and 50mm
(9mm stroke for VPHC plunger type - Soft and Soft Bellows cups)

Spring Level Compensator - Low Dust Emission type

Model Designation (Example)



① . Level compensator Low Dust Emission type - See individual website for other types

② . Cup size

Code		0.7	1	1.5	2	3	4	6	8	10	15	20	25	30	35	40	50
Dia. (mm)	Standard	ø.7	ø1	ø1.5	ø2	ø3	ø4	ø6	ø8	ø10	ø15	ø20	ø25	ø30	–	ø40	ø50
	Bellows	–	–	–	–	–	–	ø6	ø8	ø10	ø15	ø20	ø25	ø30	–	–	ø50
	Multi Bellows	–	–	–	–	–	–	–	–	ø10	–	ø20	–	ø30	–	ø40	ø50
	Skidproof	–	–	–	–	–	–	–	–	ø10	–	ø20	–	ø30	–	ø40	ø50
	Flat	–	–	–	–	–	–	–	–	ø10	ø15	ø20	ø25	ø30	–	–	–
	Mark-free	–	–	–	–	–	–	–	–	ø10	–	ø20	–	ø30	–	–	–
	Thin obj.	–	–	–	–	–	–	–	ø8	ø10	ø15	ø20	–	–	–	–	–
	Sponge	–	–	–	–	–	–	–	–	ø10	ø15	ø20	ø25	ø30	ø35	–	ø50

③ . Stroke

Code	-2	-5	-10	-15
Stroke (mm)	2	5	10	15

④ . Cup type

Code	R			A	RM	L		B	W	K	P	F	Q	S	E
Type	Standard					Soft	Soft Bellows	Bellows	Multi-Bellows	Skidproof	Thin Object	Flat	Mark-free	Sponge	Oval
	General		Deep		Small										

⑤ . Cup material and application

Material		Nitrile rubber	Silicone rubber	Urethane rubber	Fluoro rubber	Conductive Silicone rubber	Conductive Butadiene rubber (Low resistance type)	Conductive NBR (Low resistance type)	NBR suited to the Japan food sanitation act.	HNBR	EPDM
Code	Std.(General)	N	S	U	F	SE	E	NE	G	HN	EP
	Std.(Deep)	N	S	U	F	–	–	NE	G	HN	EP
	Bellows	N	S	U	F	SE	–	NE	–	HN	EP
	Oval	N	S	U	F	SE	E	NE	–	HN	EP
	Skidproof	NH	S	U	F	–	–	NE	–	–	–
	Flat	N	S	U	F	SE	–	NE	–	–	–

⑥ . Port size and joint type

Joint type	Push-in fitting				Barb fitting	
Code	5/32J	1/4J	4J	6J	4B	6B
O.D. x I.D.	5/32" OD	1/4" OD	ø4mm×ø2.5mm	ø6mm×ø4mm	ø4mm×ø2.5mm	ø6mm×ø4mm

*Specify 1/4J for 6J and 5/32J for 4J of model codes of dimensional charts for inch O.D. tubings

⑦ . Mark-free resin attachment (option for Bellows cup type only)

Code	-Q
option	Mark-free resin attachment

⑧ . Mark-free resin attachment material (option for Bellows cup type only)

Code	K	M	KE
Material	PEEK	POM	Conductive PEEK

⑨ . Swivel joint or Vacuum retention valve (option)

Code	-FH	-FHH	-ECV
Option	Swivel joint Oscillating angle : 30°	Swivel joint Oscillating angle : 15°	Vacuum retention valve

⑩ . Filter (option)

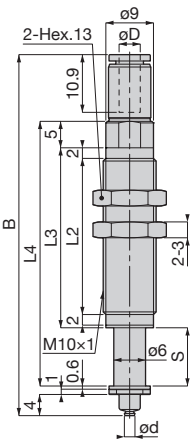
Code	-F15	-F30
Applicable cup size	ø10~15mm	ø20~50mm

VPLFC Spring Level Compensator / Top Push-in port / Small Cup

RoHS compliant

ECO PRODUCT

VPLFC0.7-3RM56
VPLFC1-3RM56
VPLFC1.5-3RM56
VPLFC2-3RM56
VPLFC3-3RM56
VPLFC4-3RM56



Stroke (mm)
2, 5, 10, 15

Unit : mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	L4	Stroke S	Spring Force (N)	Cup fitting Connection Code
VPLFC0.7-2RM5-3J	0.7	3	52.2	21.5	26	34	3[2]	1.3～1.8	-T4
VPLFC0.7-2RM5-4J		4							
VPLFC0.7-5RM5-3J		3	58.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC0.7-5RM5-4J		4							
VPLFC0.7-10RM5-3J		3	68.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC0.7-10RM5-4J		4							
VPLFC0.7-15RM5-3J		3	78.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC0.7-15RM5-4J		4							
VPLFC1-2RM5-3J	1	3	52.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC1-2RM5-4J		4							
VPLFC1-5RM5-3J		3	58.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC1-5RM5-4J		4							
VPLFC1-10RM5-3J		3	68.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC1-10RM5-4J		4							
VPLFC1-15RM5-3J		3	78.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC1-15RM5-4J		4							

Low Dust Emission type Plunger
Vacuum Cup Standard type

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	L4	Stroke S	Spring Force (N)	Cup fitting config. code
VPLFC1.5-2RM⑤-3J	1.5	3	52.2	21.5	26	34	3[2]	1.3～1.8	-T4
VPLFC1.5-2RM⑤-4J		4							
VPLFC1.5-5RM⑤-3J		3	58.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC1.5-5RM⑤-4J		4							
VPLFC1.5-10RM⑤-3J		3	68.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC1.5-10RM⑤-4J		4							
VPLFC1.5-15RM⑤-3J		3	78.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC1.5-15RM⑤-4J		4							
VPLFC2-2RM⑤-3J	2	3	52.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC2-2RM⑤-4J		4							
VPLFC2-5RM⑤-3J		3	58.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC2-5RM⑤-4J		4							
VPLFC2-10RM⑤-3J		3	68.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC2-10RM⑤-4J		4							
VPLFC2-15RM⑤-3J		3	78.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC2-15RM⑤-4J		4							
VPLFC3-2RM⑤-3J	3	3	52.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC3-2RM⑤-4J		4							
VPLFC3-5RM⑤-3J		3	58.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC3-5RM⑤-4J		4							
VPLFC3-10RM⑤-3J		3	68.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC3-10RM⑤-4J		4							
VPLFC3-15RM⑤-3J		3	78.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC3-15RM⑤-4J		4							
VPLFC4-2RM⑤-3J	4	3	52.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC4-2RM⑤-4J		4							
VPLFC4-5RM⑤-3J		3	58.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC4-5RM⑤-4J		4							
VPLFC4-10RM⑤-3J		3	68.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC4-10RM⑤-4J		4							
VPLFC4-15RM⑤-3J		3	78.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC4-15RM⑤-4J		4							

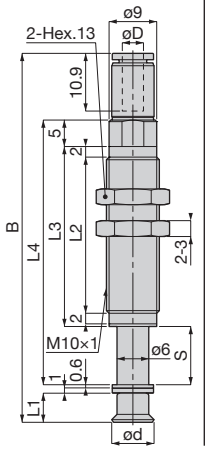
※. Fill in ⑤ of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be 5~6N·m
※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger

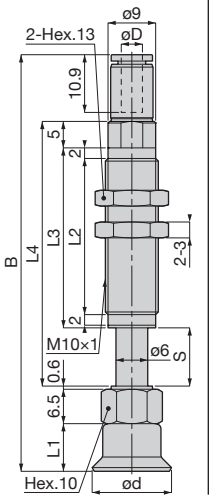
Vacuum Cup Standard type

Stroke (㎜)
2, 5, 10, 15

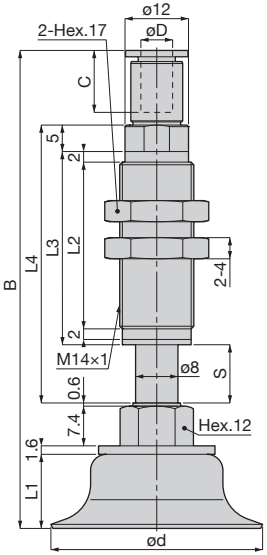
VPLFC6-3R56
VPLFC8-3R56



VPLFC10-3R56
VPLFC15-3R(A)56



VPLFC20-3R(A)56
VPLFC25-3R(A)56



Unit : mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC6-2R5-3J	6	3	55.2	7	21.5	26	34	3[2]	1.3～1.8	-T8
VPLFC6-2R5-4J		4								
VPLFC6-5R5-3J		3	61.2		24.5	29	40	6[5]	1.3～2.4	
VPLFC6-5R5-4J		4								
VPLFC6-10R5-3J		3	71.2		29.5	34	50	11[10]	1.3～3.3	
VPLFC6-10R5-4J		4								
VPLFC6-15R5-3J		3	81.2		34.5	39	60	16[15]	1.3～4.2	
VPLFC6-15R5-4J		4								
VPLFC8-2R5-3J	8	3	53.7	5.5	21.5	26	34	3[2]	1.3～1.8	
VPLFC8-2R5-4J		4								
VPLFC8-5R5-3J		3	59.7		24.5	29	40	6[5]	1.3～2.4	
VPLFC8-5R5-4J		4								
VPLFC8-10R5-3J		3	69.7		29.5	34	50	11[10]	1.3～3.3	
VPLFC8-10R5-4J		4								
VPLFC8-15R5-3J		3	79.7		34.5	39	60	16[15]	1.3～4.2	
VPLFC8-15R5-4J		4								

Low Dust Emission type Plunger
Vacuum Cup Standard type

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	L4	C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC10-2R⑤-3J	10	3	61.7	8	21.5	26	34	—	3[2]	1.3～1.8	-M4
VPLFC10-2R⑤-4J		4									
VPLFC10-5R⑤-3J		3	67.7		24.5	29	40		6[5]	1.3～2.4	
VPLFC10-5R⑤-4J		4									
VPLFC10-10R⑤-3J		3	77.7		29.5	34	50		11[10]	1.3～3.3	
VPLFC10-10R⑤-4J		4									
VPLFC10-15R⑤-3J		3	87.7		34.5	39	60		16[15]	1.3～4.2	
VPLFC10-15R⑤-4J		4									
VPLFC15-2R(A)⑤-3J	15	3	62.7(63.7)	9(10)	21.5	26	34	—	3[2]	1.3～1.8	
VPLFC15-2R(A)⑤-4J		4									
VPLFC15-5R(A)⑤-3J		3	68.7(69.7)		24.5	29	40		6[5]	1.3～2.4	
VPLFC15-5R(A)⑤-4J		4									
VPLFC15-10R(A)⑤-3J		3	78.7(79.7)		29.5	34	50		11[10]	1.3～3.3	
VPLFC15-10R(A)⑤-4J		4									
VPLFC15-15R(A)⑤-3J		3	88.7(89.7)		34.5	39	60		16[15]	1.3～4.2	
VPLFC15-15R(A)⑤-4J		4									
VPLFC20-5R(A)⑤-3J	20	3	74.8(75.8)	10(11)	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC20-5R(A)⑤-4J		4									
VPLFC20-5R(A)⑤-6J		6	76.2(77.2)					11.7			
VPLFC20-10R(A)⑤-3J		3	84.8(85.8)		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC20-10R(A)⑤-4J		4									
VPLFC20-10R(A)⑤-6J		6	86.2(87.2)					11.7			
VPLFC20-15R(A)⑤-3J		3	94.8(95.8)		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC20-15R(A)⑤-4J		4									
VPLFC20-15R(A)⑤-6J		6	96.2(97.2)					11.7			
VPLFC25-5R(A)⑤-3J	25	3	75.8(76.8)	11(12)	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC25-5R(A)⑤-4J		4									
VPLFC25-5R(A)⑤-6J		6	77.2(78.2)					11.7			
VPLFC25-10R(A)⑤-3J		3	85.8(86.8)		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC25-10R(A)⑤-4J		4									
VPLFC25-10R(A)⑤-6J		6	87.2(88.2)					11.7			
VPLFC25-15R(A)⑤-3J		3	95.8(96.8)		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC25-15R(A)⑤-4J		4									
VPLFC25-15R(A)⑤-6J		6	97.2(98.2)					11.7			

※. The dimensions in the brackets ( ) is of deep type of vacuum cup.

※. Fill in ⑤ of the model with vacuum cup material code. Please refer to the vacuum cup chart.

※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.

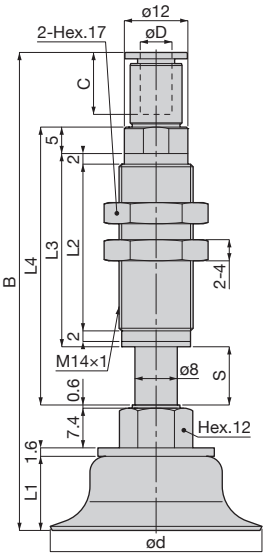
※. Tightening torque for panel mount nuts on the plunger should be as follows
- 5~6N·m for -T8, -M4
- 18~21N·m for -M6

※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger
Vacuum Cup Standard type

Stroke (mm)
5,10,15

VPLFC30-3R(A)56
VPLFC40-3R(A)56
VPLFC50-3R(A)56



※. The dimensions in the brackets ( ) is of deep type of vacuum cup.
※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be 18~21N·m
※. Actual stroke is stated in [ ] bracket.

Unit：mm

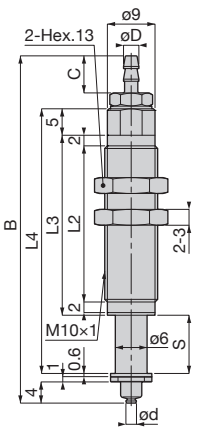
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC30-5R(A)5-3J	30	3	75.8(78.8)	11(14)	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC30-5R(A)5-4J		4									
VPLFC30-5R(A)5-6J		6	77.2(80.2)					11.7			
VPLFC30-10R(A)5-3J		3	85.8(88.8)		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC30-10R(A)5-4J		4									
VPLFC30-10R(A)5-6J		6	87.2(90.2)					11.7			
VPLFC30-15R(A)5-3J		3	95.8(98.8)		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC30-15R(A)5-4J		4									
VPLFC30-15R(A)5-6J		6	97.2(100.2)					11.7			
VPLFC40-5R(A)5-3J	40	3	78.8(82.3)	14(17.5)	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC40-5R(A)5-4J		4									
VPLFC40-5R(A)5-6J		6	80.2(83.7)					11.7			
VPLFC40-10R(A)5-3J		3	88.8(92.3)		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC40-10R(A)5-4J		4									
VPLFC40-10R(A)5-6J		6	90.2(93.7)					11.7			
VPLFC40-15R(A)5-3J		3	98.8(102.3)		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC40-15R(A)5-4J		4									
VPLFC40-15R(A)5-6J		6	100.2(103.7)					11.7			
VPLFC50-5R(A)5-3J	50	3	79.8(82.8)	15(18)	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC50-5R(A)5-4J		4									
VPLFC50-5R(A)5-6J		6	81.2(84.2)					11.7			
VPLFC50-10R(A)5-3J		3	89.8(92.8)		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC50-10R(A)5-4J		4									
VPLFC50-10R(A)5-6J		6	91.2(94.2)					11.7			
VPLFC50-15R(A)5-3J		3	99.8(102.8)		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC50-15R(A)5-4J		4									
VPLFC50-15R(A)5-6J		6	101.2(104.2)					11.7			

Low Dust Emission type Plunger
Vacuum Cup Standard type

VPLFC Spring Level Compensator / Top Barb port / Small Cup

ECO PRODUCT

VPLFC0.7-3RM56
VPLFC1-3RM56



Stroke (mm)
2, 5, 10, 15

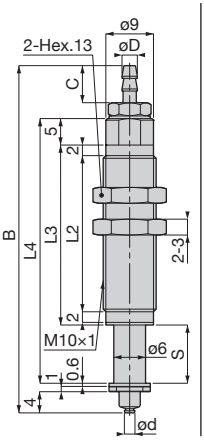
Unit：mm

Model code	Cup O.D. ød	Tubing I.D. øD	B	L2	L3	L4	C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC0.7-2RM5-3B	0.7	2	48.1	21.5	26	34	6	3[2]	1.3～1.8	-T4
VPLFC0.7-2RM5-4B		2.5	49.6				7			
VPLFC0.7-2RM5-6B		4								
VPLFC0.7-5RM5-3B		2	54.1	24.5	29	40	6	6[5]	1.3～2.4	
VPLFC0.7-5RM5-4B		2.5	55.6				7			
VPLFC0.7-5RM5-6B		4								
VPLFC0.7-10RM5-3B		2	64.1	29.5	34	50	6	11[10]	1.3～3.3	
VPLFC0.7-10RM5-4B		2.5	65.6				7			
VPLFC0.7-10RM5-6B		4								
VPLFC0.7-15RM5-3B		2	74.1	34.5	39	60	6	16[15]	1.3～4.2	
VPLFC0.7-15RM5-4B		2.5	75.6				7			
VPLFC0.7-15RM5-6B		4								
VPLFC1-2RM5-3B	1	2	48.1	21.5	26	34	6	3[2]	1.3～1.8	
VPLFC1-2RM5-4B		2.5	49.6				7			
VPLFC1-2RM5-6B		4								
VPLFC1-5RM5-3B		2	54.1	24.5	29	40	6	6[5]	1.3～2.4	
VPLFC1-5RM5-4B		2.5	55.6				7			
VPLFC1-5RM5-6B		4								
VPLFC1-10RM5-3B		2	64.1	29.5	34	50	6	11[10]	1.3～3.3	
VPLFC1-10RM5-4B		2.5	65.6				7			
VPLFC1-10RM5-6B		4								
VPLFC1-15RM5-3B		2	74.1	34.5	39	60	6	16[15]	1.3～4.2	
VPLFC1-15RM5-4B		2.5	75.6				7			
VPLFC1-15RM5-6B		4								

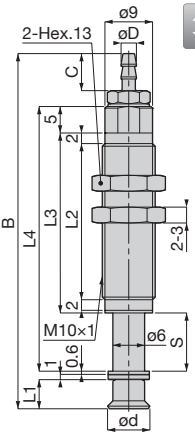
※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be 5~6N·m
※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger
Vacuum Cup Standard type

VPLFC1.5-3RM56
VPLFC2-3RM56
VPLFC3-3RM56
VPLFC4-3RM56



VPLFC6-3R56
VPLFC8-3R56



Stroke (mm)
2, 5, 10, 15

Unit : mm

Model code	Cup O.D. ød	Tubing I.D. øD	B	L2	L3	L4	C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC1.5-2RM5-3B	1.5	2	48.1	21.5	26	34	6	3[2]	1.3～1.8	-T4
VPLFC1.5-2RM5-4B		2.5	49.6				7			
VPLFC1.5-2RM5-6B		4								
VPLFC1.5-5RM5-3B		2	54.1	24.5	29	40	6	6[5]	1.3～2.4	
VPLFC1.5-5RM5-4B		2.5	55.6				7			
VPLFC1.5-5RM5-6B		4								
VPLFC1.5-10RM5-3B		2	64.1	29.5	34	50	6	11[10]	1.3～3.3	
VPLFC1.5-10RM5-4B		2.5	65.6				7			
VPLFC1.5-10RM5-6B		4								
VPLFC1.5-15RM5-3B		2	74.1	34.5	39	60	6	16[15]	1.3～4.2	
VPLFC1.5-15RM5-4B		2.5	75.6				7			
VPLFC1.5-15RM5-6B		4								
VPLFC2-2RM5-3B	2	2	48.1	21.5	26	34	6	3[2]	1.3～1.8	
VPLFC2-2RM5-4B		2.5	49.6				7			
VPLFC2-2RM5-6B		4								
VPLFC2-5RM5-3B		2	54.1	24.5	29	40	6	6[5]	1.3～2.4	
VPLFC2-5RM5-4B		2.5	55.6				7			
VPLFC2-5RM5-6B		4								
VPLFC2-10RM5-3B		2	64.1	29.5	34	50	6	11[10]	1.3～3.3	
VPLFC2-10RM5-4B		2.5	65.6				7			
VPLFC2-10RM5-6B		4								
VPLFC2-15RM5-3B		2	74.1	34.5	39	60	6	16[15]	1.3～4.2	
VPLFC2-15RM5-4B		2.5	75.6				7			
VPLFC2-15RM5-6B		4								

※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be 5~6N·m
※. Actual stroke is stated in [ ] bracket.

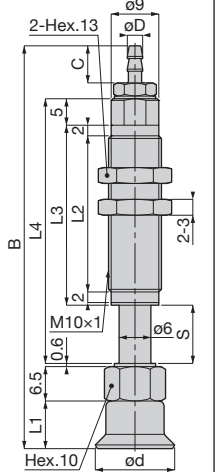
Low Dust Emission type Plunger
Vacuum Cup Standard type

Unit：mm

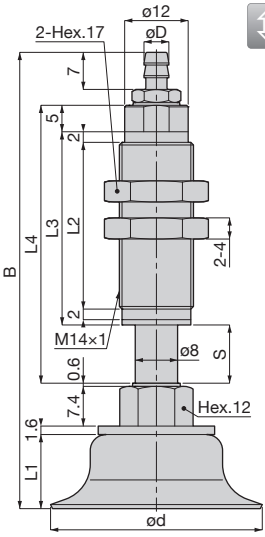
Model code	Cup O.D. ød	Tubing I.D. øD	B	L1	L2	L3	L4	C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC3-2RM⑤-3B	3	2	48.1	—	21.5	26	34	6	3[2]	1.3～1.8	-T4
VPLFC3-2RM⑤-4B		2.5	49.6					7			
VPLFC3-2RM⑤-6B		4									
VPLFC3-5RM⑤-3B		2	54.1		24.5	29	40	6	6[5]	1.3～2.4	
VPLFC3-5RM⑤-4B		2.5	55.6					7			
VPLFC3-5RM⑤-6B		4									
VPLFC3-10RM⑤-3B		2	64.1		29.5	34	50	6	11[10]	1.3～3.3	
VPLFC3-10RM⑤-4B		2.5	65.6					7			
VPLFC3-10RM⑤-6B		4									
VPLFC3-15RM⑤-3B		2	74.1		34.5	39	60	6	16[15]	1.3～4.2	
VPLFC3-15RM⑤-4B		2.5	75.6					7			
VPLFC3-15RM⑤-6B		4									
VPLFC4-2RM⑤-3B	4	2	48.1	—	21.5	26	34	6	3[2]	1.3～1.8	
VPLFC4-2RM⑤-4B		2.5	49.6					7			
VPLFC4-2RM⑤-6B		4									
VPLFC4-5RM⑤-3B		2	54.1		24.5	29	40	6	6[5]	1.3～2.4	
VPLFC4-5RM⑤-4B		2.5	55.6					7			
VPLFC4-5RM⑤-6B		4									
VPLFC4-10RM⑤-3B		2	64.1		29.5	34	50	6	11[10]	1.3～3.3	
VPLFC4-10RM⑤-4B		2.5	65.6					7			
VPLFC4-10RM⑤-6B		4									
VPLFC4-15RM⑤-3B		2	74.1		34.5	39	60	6	16[15]	1.3～4.2	
VPLFC4-15RM⑤-4B		2.5	75.6					7			
VPLFC4-15RM⑤-6B		4									
VPLFC6-2R⑤-3B	6	2	51.1	7	21.5	26	34	6	3[2]	1.3～1.8	-T8
VPLFC6-2R⑤-4B		2.5	52.6					7			
VPLFC6-2R⑤-6B		4									
VPLFC6-5R⑤-3B		2	57.1		24.5	29	40	6	6[5]	1.3～2.4	
VPLFC6-5R⑤-4B		2.5	58.6					7			
VPLFC6-5R⑤-6B		4									
VPLFC6-10R⑤-3B		2	67.1		29.5	34	50	6	11[10]	1.3～3.3	
VPLFC6-10R⑤-4B		2.5	68.6					7			
VPLFC6-10R⑤-6B		4									
VPLFC6-15R⑤-3B		2	77.1		34.5	39	60	6	16[15]	1.3～4.2	
VPLFC6-15R⑤-4B		2.5	78.6					7			
VPLFC6-15R⑤-6B		4									
VPLFC8-2R⑤-3B	8	2	49.6	5.5	21.5	26	34	6	3[2]	1.3～1.8	
VPLFC8-2R⑤-4B		2.5	51.1					7			
VPLFC8-2R⑤-6B		4									
VPLFC8-5R⑤-3B		2	55.6		24.5	29	40	6	6[5]	1.3～2.4	
VPLFC8-5R⑤-4B		2.5	57.1					7			
VPLFC8-5R⑤-6B		4									
VPLFC8-10R⑤-3B		2	65.6		29.5	34	50	6	11[10]	1.3～3.3	
VPLFC8-10R⑤-4B		2.5	67.1					7			
VPLFC8-10R⑤-6B		4									
VPLFC8-15R⑤-3B		2	75.6		34.5	39	60	6	16[15]	1.3～4.2	
VPLFC8-15R⑤-4B		2.5	77.1					7			
VPLFC8-15R⑤-6B		4									

Vacuum Cup Standard type

VPLFC10-3R56
VPLFC15-3R(A)56



VPLFC20-3R(A)56
VPLFC25-3R(A)56
VPLFC30-3R(A)56
VPLFC40-3R(A)56
VPLFC50-3R(A)56



Stroke (㎜)
2, 5, 10, 15

Unit : mm

Model code	Cup O.D. ød	Tubing I.D. øD	B	L1	L2	L3	L4	C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC10-2R5-3B	10	2	57.6	8	21.5	26	34	6	3[2]	1.3～1.8	-M4
VPLFC10-2R5-4B		2.5	59.1					7			
VPLFC10-2R5-6B		4									
VPLFC10-5R5-3B		2	63.6		24.5	29	40	6	6[5]	1.3～2.4	
VPLFC10-5R5-4B		2.5	65.1					7			
VPLFC10-5R5-6B		4									
VPLFC10-10R5-3B		2	73.6		29.5	34	50	6	11[10]	1.3～3.3	
VPLFC10-10R5-4B		2.5	75.1					7			
VPLFC10-10R5-6B		4									
VPLFC10-15R5-3B		2	83.6		34.5	39	60	6	16[15]	1.3～4.2	
VPLFC10-15R5-4B		2.5	85.1					7			
VPLFC10-15R5-6B		4									
VPLFC15-2R(A)5-3B	15	2	58.6(59.6)	9(10)	21.5	26	34	6	3[2]	1.3～1.8	
VPLFC15-2R(A)5-4B		2.5	60.1(61.1)					7			
VPLFC15-2R(A)5-6B		4									
VPLFC15-5R(A)5-3B		2	64.6(65.6)		24.5	29	40	6	6[5]	1.3～2.4	
VPLFC15-5R(A)5-4B		2.5	66.1(67.1)					7			
VPLFC15-5R(A)5-6B		4									
VPLFC15-10R(A)5-3B		2	74.6(75.6)		29.5	34	50	6	11[10]	1.3～3.3	
VPLFC15-10R(A)5-4B		2.5	76.1(77.1)					7			
VPLFC15-10R(A)5-6B		4									
VPLFC15-15R(A)5-3B		2	84.6(85.6)		34.5	39	60	6	16[15]	1.3～4.2	
VPLFC15-15R(A)5-4B		2.5	86.1(87.1)					7			
VPLFC15-15R(A)5-6B		4									

Low Dust Emission type Plunger
Vacuum Cup Standard type

Unit：mm

Model code	Cup O.D. ød	Tubing I.D. øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC20-5R(A)□-4B	20	2.5	72.2(73.2)	10(11)	26.5	31.5	42.5	6[5]	4.5～6.5	-M6
VPLFC20-5R(A)□-6B		4								
VPLFC20-10R(A)□-4B		2.5	82.2(83.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC20-10R(A)□-6B		4								
VPLFC20-15R(A)□-4B		2.5	92.2(93.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC20-15R(A)□-6B		4								
VPLFC25-5R(A)□-4B	25	2.5	73.2(74.2)	11(12)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC25-5R(A)□-6B		4								
VPLFC25-10R(A)□-4B		2.5	83.2(84.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC25-10R(A)□-6B		4								
VPLFC25-15R(A)□-4B		2.5	93.2(94.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC25-15R(A)□-6B		4								
VPLFC30-5R(A)□-4B	30	2.5	73.2(76.2)	11(14)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC30-5R(A)□-6B		4								
VPLFC30-10R(A)□-4B		2.5	83.2(86.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC30-10R(A)□-6B		4								
VPLFC30-15R(A)□-4B		2.5	93.2(96.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC30-15R(A)□-6B		4								
VPLFC40-5R(A)□-4B	40	2.5	76.2(79.7)	14(17.5)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC40-5R(A)□-6B		4								
VPLFC40-10R(A)□-4B		2.5	86.2(89.7)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC40-10R(A)□-6B		4								
VPLFC40-15R(A)□-4B		2.5	96.2(99.7)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC40-15R(A)□-6B		4								
VPLFC50-5R(A)□-4B	50	2.5	77.2(80.2)	15(18)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC50-5R(A)□-6B		4								
VPLFC50-10R(A)□-4B		2.5	87.2(90.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC50-10R(A)□-6B		4								
VPLFC50-15R(A)□-4B		2.5	97.2(100.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC50-15R(A)□-6B		4								

※. The dimensions in the brackets ( ) is of deep type of vacuum cup.

※. Fill in □ of the model with vacuum cup material code. Please refer to the vacuum cup chart.

※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.

※. Tightening torque for panel mount nuts on the plunger should be as follows
- 5~6N·m for -T8, -M4
- 18~21N·m for -M6

※. Actual stroke is stated in [ ] bracket.

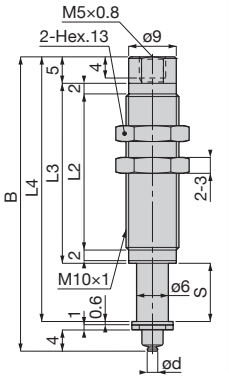
Low Dust Emission type Plunger

Vacuum Cup Standard type

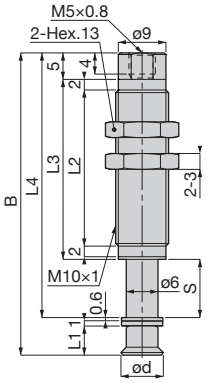
VPLFC Spring Level Compensator / Top port / Standard Cup

ECO PRODUCT

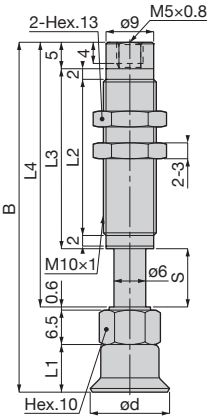
VPLFC0.7-3RM5-M5
VPLFC1-3RM5-M5
VPLFC1.5-3RM5-M5
VPLFC2-3RM5-M5
VPLFC3-3RM5-M5
VPLFC4-3RM5-M5



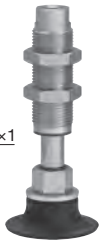
VPLFC6-3R5-M5
VPLFC8-3R5-M5

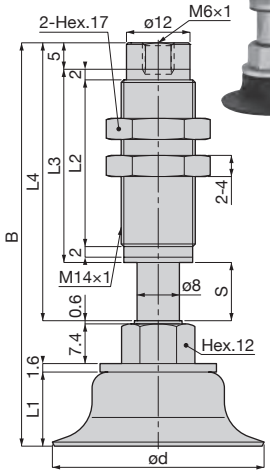


VPLFC10-3R5-M5
VPLFC15-3R(A)5-M5



VPLFC20-3R(A)5-M6
VPLFC25-3R(A)5-M6
VPLFC30-3R(A)5-M6
VPLFC40-3R(A)5-M6
VPLFC50-3R(A)5-M6





Unit : mm

Model code	Cup O.D. ød	B	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC0.7-2RM5-M5	0.7	39.6	21.5	26	34	3[2]	1.3～1.8	-T4
VPLFC0.7-5RM5-M5		45.6	24.5	29	40	6[5]	1.3～2.4	
VPLFC0.7-10RM5-M5		55.6	29.5	34	50	11[10]	1.3～3.3	
VPLFC0.7-15RM5-M5		65.6	34.5	39	60	16[15]	1.3～4.2	
VPLFC1-2RM5-M5	1	39.6	21.5	26	34	3[2]	1.3～1.8	
VPLFC1-5RM5-M5		45.6	24.5	29	40	6[5]	1.3～2.4	
VPLFC1-10RM5-M5		55.6	29.5	34	50	11[10]	1.3～3.3	
VPLFC1-15RM5-M5		65.6	34.5	39	60	16[15]	1.3～4.2	
VPLFC1.5-2RM5-M5	1.5	39.6	21.5	26	34	3[2]	1.3～1.8	
VPLFC1.5-5RM5-M5		45.6	24.5	29	40	6[5]	1.3～2.4	
VPLFC1.5-10RM5-M5		55.6	29.5	34	50	11[10]	1.3～3.3	
VPLFC1.5-15RM5-M5		65.6	34.5	39	60	16[15]	1.3～4.2	
VPLFC2-2RM5-M5	2	39.6	21.5	26	34	3[2]	1.3～1.8	
VPLFC2-5RM5-M5		45.6	24.5	29	40	6[5]	1.3～2.4	
VPLFC2-10RM5-M5		55.6	29.5	34	50	11[10]	1.3～3.3	
VPLFC2-15RM5-M5		65.6	34.5	39	60	16[15]	1.3～4.2	
VPLFC3-2RM5-M5	3	39.6	21.5	26	34	3[2]	1.3～1.8	
VPLFC3-5RM5-M5		45.6	24.5	29	40	6[5]	1.3～2.4	
VPLFC3-10RM5-M5		55.6	29.5	34	50	11[10]	1.3～3.3	
VPLFC3-15RM5-M5		65.6	34.5	39	60	16[15]	1.3～4.2	
VPLFC4-2RM5-M5	4	39.6	21.5	26	34	3[2]	1.3～1.8	
VPLFC4-5RM5-M5		45.6	24.5	29	40	6[5]	1.3～2.4	
VPLFC4-10RM5-M5		55.6	29.5	34	50	11[10]	1.3～3.3	
VPLFC4-15RM5-M5		65.6	34.5	39	60	16[15]	1.3～4.2	

Low Dust Emission type Plunger
Vacuum Cup Standard type

Stroke (㎜)
2, 5, 10, 15

Unit：mm

Model code	Cup O.D. ød	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC6-2R⑤-M5	6	42.6	7	21.5	26	34	3[2]	1.3～1.8	-T8
VPLFC6-5R⑤-M5		48.6		24.5	29	40	6[5]	1.3～2.4	
VPLFC6-10R⑤-M5		58.6		29.5	34	50	11[10]	1.3～3.3	
VPLFC6-15R⑤-M5		68.6		34.5	39	60	16[15]	1.3～4.2	
VPLFC8-2R⑤-M5	8	41.1	5.5	21.5	26	34	3[2]	1.3～1.8	
VPLFC8-5R⑤-M5		47.1		24.5	29	40	6[5]	1.3～2.4	
VPLFC8-10R⑤-M5		57.1		29.5	34	50	11[10]	1.3～3.3	
VPLFC8-15R⑤-M5		67.1		34.5	39	60	16[15]	1.3～4.2	
VPLFC10-2R⑤-M5	10	49.1	8	21.5	26	34	3[2]	1.3～1.8	-M4
VPLFC10-5R⑤-M5		55.1		24.5	29	40	6[5]	1.3～2.4	
VPLFC10-10R⑤-M5		65.1		29.5	34	50	11[10]	1.3～3.3	
VPLFC10-15R⑤-M5		75.1		34.5	39	60	16[15]	1.3～4.2	
VPLFC15-2R(A)⑤-M5	15	50.1(51.1)	9(10)	21.5	26	34	3(2)	1.3～1.8	
VPLFC15-5R(A)⑤-M5		56.1(57.1)		24.5	29	40	6[5]	1.3～2.4	
VPLFC15-10R(A)⑤-M5		66.1(67.1)		29.5	34	50	11[10]	1.3～3.3	
VPLFC15-15R(A)⑤-M5		76.1(77.1)		34.5	39	60	16[15]	1.3～4.2	
VPLFC20-5R(A)⑤-M6	20	62.2(63.2)	10(11)	26.5	31.5	42.5	6[5]	4.5～6.5	-M6
VPLFC20-10R(A)⑤-M6		72.2(73.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC20-15R(A)⑤-M6		82.2(83.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC25-5R(A)⑤-M6	25	63.2(64.2)	11(12)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC25-10R(A)⑤-M6		73.2(74.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC25-15R(A)⑤-M6		83.2(84.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC30-5R(A)⑤-M6	30	63.2(66.2)	11(14)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC30-10R(A)⑤-M6		73.2(76.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC30-15R(A)⑤-M6		83.2(86.2)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC40-5R(A)⑤-M6	40	66.2(69.7)	14(17.5)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC40-10R(A)⑤-M6		76.2(79.7)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC40-15R(A)⑤-M6		86.2(89.7)		36.5	41.5	62.5	16[15]	4.5～9.9	
VPLFC50-5R(A)⑤-M6	50	67.2(70.2)	15(18)	26.5	31.5	42.5	6[5]	4.5～6.5	
VPLFC50-10R(A)⑤-M6		77.2(80.2)		31.5	36.5	52.5	11[10]	4.5～8.2	
VPLFC50-15R(A)⑤-M6		87.2(90.2)		36.5	41.5	62.5	16[15]	4.5～9.9	

※. The dimensions in the brackets ( ) is of deep type of vacuum cup.
※. Fill in ⑤ of the model code with vacuum cup material code. Please refer to the vacuum cup chart.
※. Tightening torque for panel mount nuts on the plunger should be as follows
- 5~6N·m for -T8, -M4
- 18~21N·m for -M6

※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger - Vacuum Cup Bellows type

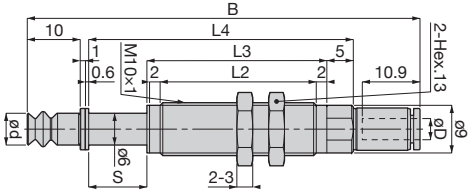
VPLFC Spring Level Compensator / Top Push-in port / Bellows Cup

Stroke (mm) 2, 5,10,15

RoHS compliant

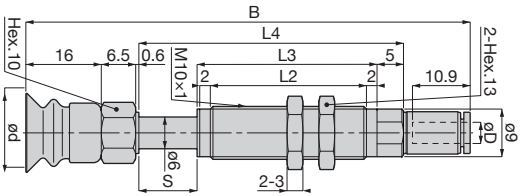
VPLFC6-3B56

VPLFC8-3B56



VPLFC10-3B5678

VPLFC15-3B5678



Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC6-2B5-3J	6	3	58.2	21.5	26	34	3[2]	1.3～1.8	-T8
VPLFC6-2B5-4J		4							
VPLFC6-5B5-3J		3	64.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC6-5B5-4J		4							
VPLFC6-10B5-3J		3	74.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC6-10B5-4J		4							
VPLFC6-15B5-3J		3	84.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC6-15B5-4J		4							
VPLFC8-2B5-3J	8	3	58.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC8-2B5-4J		4							
VPLFC8-5B5-3J		3	64.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC8-5B5-4J		4							
VPLFC8-10B5-3J		3	74.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC8-10B5-4J		4							
VPLFC8-15B5-3J		3	84.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC8-15B5-4J		4							
VPLFC10-2B5-3J78	10	3	69.7	21.5	26	34	3[2]	1.3～1.8	-M4
VPLFC10-2B5-4J78		4							
VPLFC10-5B5-3J78		3	75.7	24.5	29	40	6[5]	1.3～2.4	
VPLFC10-5B5-4J78		4							
VPLFC10-10B5-3J78		3	85.7	29.5	34	50	11[10]	1.3～3.3	
VPLFC10-10B5-4J78		4							
VPLFC10-15B5-3J78		3	95.7	34.5	39	60	16[15]	1.3～4.2	
VPLFC10-15B5-4J78		4							
VPLFC15-2B5-3J78	15	3	69.7	21.5	26	34	3[2]	1.3～1.8	
VPLFC15-2B5-4J78		4							
VPLFC15-5B5-3J78		3	75.7	24.5	29	40	6[5]	1.3～2.4	
VPLFC15-5B5-4J78		4							
VPLFC15-10B5-3J78		3	85.7	29.5	34	50	11[10]	1.3～3.3	
VPLFC15-10B5-4J78		4							
VPLFC15-15B5-3J78		3	95.7	34.5	39	60	16[15]	1.3～4.2	
VPLFC15-15B5-4J78		4							

※. Fill in 5 of the model code with vacuum cup material code. Please refer to the vacuum cup chart.

※. Fill in 7 of the model with code -Q if the mark-free resign attachment is needed.

※. Add an extra length in the bellow table to the dimension B for a resin attachment.

Pad O.D. (mm)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.5	0.5	0.8	1

※. 8 : Replaced with Resin attachment material code. Refer to the details provided in the other page.

VPLFC Spring Level Compensator / Top Push-in port / Multi Bellows Cup

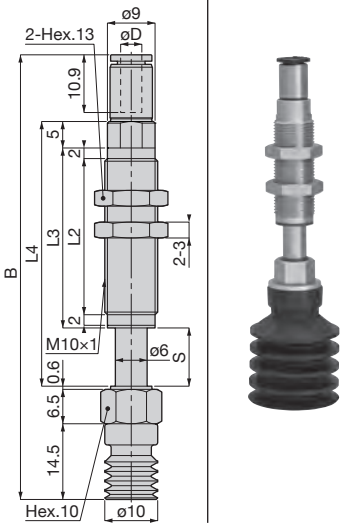
ECO PRODUCT

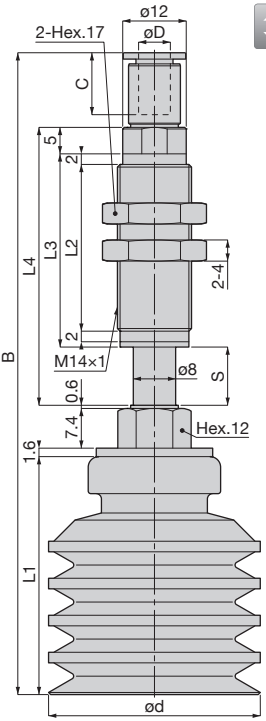
RoHS compliant

Stroke (mm)
2, 5, 10, 15

VPLFC10-3W56

VPLFC20-3W56
VPLFC30-3W56
VPLFC40-3W56
VPLFC50-3W56





Unit : mm

Model code	Cup O.D. øD	B	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC10-2W5-3J	3	68.2	21.5	26	34	3[2]	1.3～1.8	-M4
VPLFC10-2W5-4J	4							
VPLFC10-5W5-3J	3	74.2	24.5	29	40	6[5]	1.3～2.4	
VPLFC10-5W5-4J	4							
VPLFC10-10W5-3J	3	84.2	29.5	34	50	11[10]	1.3～3.3	
VPLFC10-10W5-4J	4							
VPLFC10-15W5-3J	3	94.2	34.5	39	60	16[15]	1.3～4.2	
VPLFC10-15W5-4J	4							

Low Dust Emission type Plunger
Vacuum Cup Multi Bellows type

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC20-5W⑤-3J	20	3	89.8	25	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC20-5W⑤-4J		4									
VPLFC20-5W⑤-6J		6	91.2					11.7			
VPLFC20-10W⑤-3J		3	99.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC20-10W⑤-4J		4									
VPLFC20-10W⑤-6J		6	101.2					11.7			
VPLFC20-15W⑤-3J		3	109.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC20-15W⑤-4J		4									
VPLFC20-15W⑤-6J		6	111.2					11.7			
VPLFC30-5W⑤-3J	30	3	103.3	38.5	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC30-5W⑤-4J		4									
VPLFC30-5W⑤-6J		6	104.7					11.7			
VPLFC30-10W⑤-3J		3	113.3		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC30-10W⑤-4J		4									
VPLFC30-10W⑤-6J		6	114.7					11.7			
VPLFC30-15W⑤-3J		3	123.3		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC30-15W⑤-4J		4									
VPLFC30-15W⑤-6J		6	124.7					11.7			
VPLFC40-5W⑤-3J	40	3	109.8	45	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC40-5W⑤-4J		4									
VPLFC40-5W⑤-6J		6	111.2					11.7			
VPLFC40-10W⑤-3J		3	119.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC40-10W⑤-4J		4									
VPLFC40-10W⑤-6J		6	121.2					11.7			
VPLFC40-15W⑤-3J		3	129.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC40-15W⑤-4J		4									
VPLFC40-15W⑤-6J		6	131.2					11.7			
VPLFC50-5W⑤-3J	50	3	120.8	56	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC50-5W⑤-4J		4									
VPLFC50-5W⑤-6J		6	122.2					11.7			
VPLFC50-10W⑤-3J		3	130.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC50-10W⑤-4J		4									
VPLFC50-10W⑤-6J		6	132.2					11.7			
VPLFC50-15W⑤-3J		3	140.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC50-15W⑤-4J		4									
VPLFC50-15W⑤-6J		6	142.2					11.7			

※. Fill in ⑤ of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be as follows
▪5~6N·m for -T8, -M4 ▪ 18~21N·m for -M6
※. Actual stroke is stated in [ ] bracket.

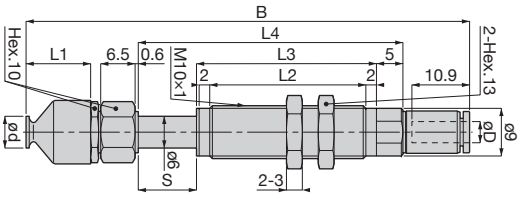
VPLFC Spring Level Compensator / Top Push-in port / Soft Cup

ECO PRODUCT

RoHS compliant

Stroke (mm) 2, 5, 10, 15

VPLFC4-3L5 6
VPLFC6-3L5 6
VPLFC8-3L5 6
VPLFC10-3L5 6
VPLFC15-3L5 6



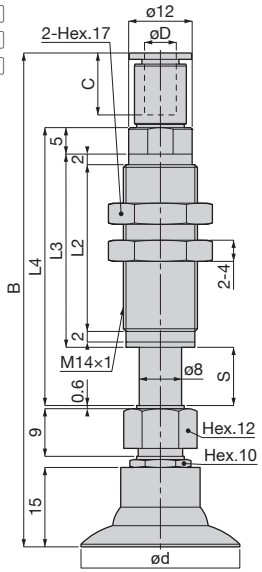
Unit : mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting config. code
VPLFC4-2L5-3J	4	3	68	12.2	21.5	26	34	3[2]	1.3～1.8	-M4
VPLFC4-2L5-4J		4								
VPLFC4-5L5-3J		3	74		24.5	29	40	6[5]	1.3～2.4	
VPLFC4-5L5-4J		4								
VPLFC4-10L5-3J		3	84		29.5	34	50	11[10]	1.3～3.3	
VPLFC4-10L5-4J		4								
VPLFC4-15L5-3J		3	94		34.5	39	60	16[15]	1.3～4.2	
VPLFC4-15L5-4J		4								
VPLFC6-2L5-3J	6	3	68	12.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC6-2L5-4J		4								
VPLFC6-5L5-3J		3	74		24.5	29	40	6[5]	1.3～2.4	
VPLFC6-5L5-4J		4								
VPLFC6-10L5-3J		3	84		29.5	34	50	11[10]	1.3～3.3	
VPLFC6-10L5-4J		4								
VPLFC6-15L5-3J		3	94		34.5	39	60	16[15]	1.3～4.2	
VPLFC6-15L5-4J		4								
VPLFC8-2L5-3J	8	3	68	12.2	21.5	26	34	3[2]	1.3～1.8	
VPLFC8-2L5-4J		4								
VPLFC8-5L5-3J		3	74		24.5	29	40	6[5]	1.3～2.4	
VPLFC8-5L5-4J		4								
VPLFC8-10L5-3J		3	84		29.5	34	50	11[10]	1.3～3.3	
VPLFC8-10L5-4J		4								
VPLFC8-15L5-3J		3	94		34.5	39	60	16[15]	1.3～4.2	
VPLFC8-15L5-4J		4								
VPLFC10-2L5-3J	10	3	69.8	14	21.5	26	34	3[2]	1.3～1.8	
VPLFC10-2L5-4J		4								
VPLFC10-5L5-3J		3	75.8		24.5	29	40	6[5]	1.3～2.4	
VPLFC10-5L5-4J		4								
VPLFC10-10L5-3J		3	85.8		29.5	34	50	11[10]	1.3～3.3	
VPLFC10-10L5-4J		4								
VPLFC10-15L5-3J		3	95.8		34.5	39	60	16[15]	1.3～4.2	
VPLFC10-15L5-4J		4								
VPLFC15-2L5-3J	15	3	69.8	14	21.5	26	34	3[2]	1.3～1.8	
VPLFC15-2L5-4J		4								
VPLFC15-5L5-3J		3	75.8		24.5	29	40	6[5]	1.3～2.4	
VPLFC15-5L5-4J		4								
VPLFC15-10L5-3J		3	85.8		29.5	34	50	11[10]	1.3～3.3	
VPLFC15-10L5-4J		4								
VPLFC15-15L5-3J		3	95.8		34.5	39	60	16[15]	1.3～4.2	
VPLFC15-15L5-4J		4								

※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.

※. Tightening torque for panel mount nuts on the plunger should be 5~6N·m
※. Actual stroke is stated in [ ] bracket.

VPLFC20-3L5 6
VPLFC30-3L5 6
VPLFC40-3L5 6



RoHS compliant

Stroke (mm)
5,10,15

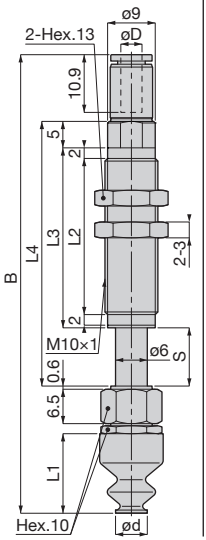
Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting Code
VPLFC20-5L5-3J	20	3	81.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC20-5L5-4J		4								
VPLFC20-5L5-6J		6	83.1				11.7			
VPLFC20-10L5-3J		3	91.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC20-10L5-4J		4								
VPLFC20-10L5-6J		6	93.1				11.7			
VPLFC20-15L5-3J		3	101.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC20-15L5-4J		4								
VPLFC20-15L5-6J		6	103.1				11.7			
VPLFC30-5L5-3J	30	3	81.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC30-5L5-4J		4								
VPLFC30-5L5-6J		6	83.1				11.7			
VPLFC30-10L5-3J		3	91.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC30-10L5-4J		4								
VPLFC30-10L5-6J		6	93.1				11.7			
VPLFC30-15L5-3J		3	101.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC30-15L5-4J		4								
VPLFC30-15L5-6J		6	103.1				11.7			
VPLFC40-5L5-3J	40	3	81.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC40-5L5-4J		4								
VPLFC40-5L5-6J		6	83.1				11.7			
VPLFC40-10L5-3J		3	91.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC40-10L5-4J		4								
VPLFC40-10L5-6J		6	93.1				11.7			
VPLFC40-15L5-3J		3	101.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC40-15L5-4J		4								
VPLFC40-15L5-6J		6	103.1				11.7			

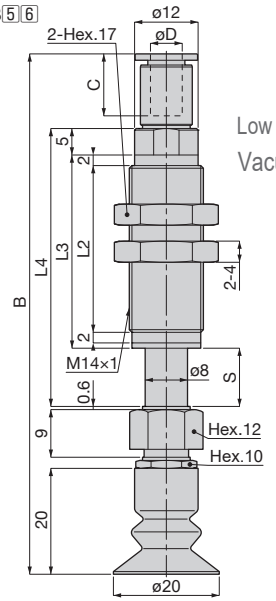
※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.

※. Tightening torque for panel mount nuts on the plunger should be 18~21N·m
※. Actual stroke is stated in [ ] bracket.

VPLFC10-3LB56
VPLFC15-3LB56



VPLFC20-3LB56



RoHS compliant

Stroke (㎜)
2, 5, 10, 15

Low Dust Emission type Plunger
Vacuum Cup Soft Bellows type

Unit : mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting Code
VPLFC10-2LB5-3J	10	3	71.3	15.5	21.5	26	34	3[2]	1.3～1.8	-M4
VPLFC10-2LB5-4J		4								
VPLFC10-5LB5-3J		3	77.3		24.5	29	40	6[5]	1.3～2.4	
VPLFC10-5LB5-4J		4								
VPLFC10-10LB5-3J		3	87.3		29.5	34	50	11[10]	1.3～3.3	
VPLFC10-10LB5-4J		4								
VPLFC10-15LB5-3J		3	97.3		34.5	39	60	16[15]	1.3～4.2	
VPLFC10-15LB5-4J		4								
VPLFC15-2LB5-3J	15	3	73.3	17.5	21.5	26	34	3[2]	1.3～1.8	
VPLFC15-2LB5-4J		4								
VPLFC15-5LB5-3J		3	79.3		24.5	29	40	6[5]	1.3～2.4	
VPLFC15-5LB5-4J		4								
VPLFC15-10LB5-3J		3	89.3		29.5	34	50	11[10]	1.3～3.3	
VPLFC15-10LB5-4J		4								
VPLFC15-15LB5-3J		3	99.3		34.5	39	60	16[15]	1.3～4.2	
VPLFC15-15LB5-4J		4								

Model code	Tubing O.D. øD	B	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC20-5LB5-3J	3	86.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC20-5LB5-4J	4								
VPLFC20-5LB5-6J	6	88.1				11.7			
VPLFC20-10LB5-3J	3	96.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC20-10LB5-4J	4								
VPLFC20-10LB5-6J	6	98.1				11.7			
VPLFC20-15LB5-3J	3	106.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC20-15LB5-4J	4								
VPLFC20-15LB5-6J	6	108.1				11.7			

※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be as follows
- 5~6N·m for -T8, -M4
- 18~21N·m for -M6

※. Actual stroke is stated in [ ] bracket.

VPLFC Spring Level Compensator / Top Push-in port / Soft Cup

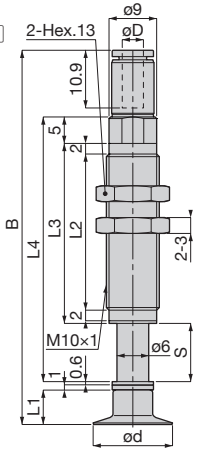
ECO PRODUCT

VPLFC8-[3]P[5][6]
VPLFC10-[3]P[5][6]

RoHS compliant

Stroke (mm)
2, 5, 10, 15

Low Dust Emission type Plunger
Vacuum Cup Thin Object type



Unit : mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Stroke S	Spring force (N)	Cup fitting code
VPLFC8-2P[5]-3J	8	3	53.7	5.5	21.5	26	34	3[2]	1.3～1.8	-T8
VPLFC8-2P[5]-4J		4								
VPLFC8-5P[5]-3J		3	59.7		24.5	29	40	6[5]	1.3～2.4	
VPLFC8-5P[5]-4J		4								
VPLFC8-10P[5]-3J		3	69.7		29.5	34	50	11[10]	1.3～3.3	
VPLFC8-10P[5]-4J		4								
VPLFC8-15P[5]-3J		3	79.7		34.5	39	60	16[15]	1.3～4.2	
VPLFC8-15P[5]-4J		4								
VPLFC10-2P[5]-3J	10	3	54	5.8	21.5	26	34	3[2]	1.3～1.8	
VPLFC10-2P[5]-4J		4								
VPLFC10-5P[5]-3J		3	60		24.5	29	40	6[5]	1.3～2.4	
VPLFC10-5P[5]-4J		4								
VPLFC10-10P[5]-3J		3	70		29.5	34	50	11[10]	1.3～3.3	
VPLFC10-10P[5]-4J		4								
VPLFC10-15P[5]-3J		3	80		34.5	39	60	16[15]	1.3～4.2	
VPLFC10-15P[5]-4J		4								
VPLFC15-2P[5]-3J	15	3	54.7	6.5	21.5	26	34	3[2]	1.3～1.8	
VPLFC15-2P[5]-4J		4								
VPLFC15-5P[5]-3J		3	60.7		24.5	29	40	6[5]	1.3～2.4	
VPLFC15-5P[5]-4J		4								
VPLFC15-10P[5]-3J		3	70.7		29.5	34	50	11[10]	1.3～3.3	
VPLFC15-10P[5]-4J		4								
VPLFC15-15P[5]-3J		3	80.7		34.5	39	60	16[15]	1.3～4.2	
VPLFC15-15P[5]-4J		4								
VPLFC20-2P[5]-3J	20	3	55.5	7.3	21.5	26	34	3[2]	1.3～1.8	
VPLFC20-2P[5]-4J		4								
VPLFC20-5P[5]-3J		3	61.5		24.5	29	40	6[5]	1.3～2.4	
VPLFC20-5P[5]-4J		4								
VPLFC20-10P[5]-3J		3	71.5		29.5	34	50	11[10]	1.3～3.3	
VPLFC20-10P[5]-4J		4								
VPLFC20-15P[5]-3J		3	81.5		34.5	39	60	16[15]	1.3～4.2	
VPLFC20-15P[5]-4J		4								

※. Fill in [5] of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.

※. Tightening torque for panel mount nuts on the plunger should be 5~6N·m
※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger
Vacuum Cup Skid-proof type

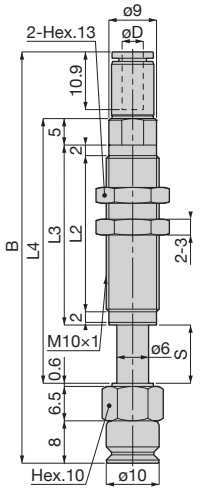
VPLFC Spring Level Compensator / Top Push-in port / Skid-proof Cup

ECO PRODUCT

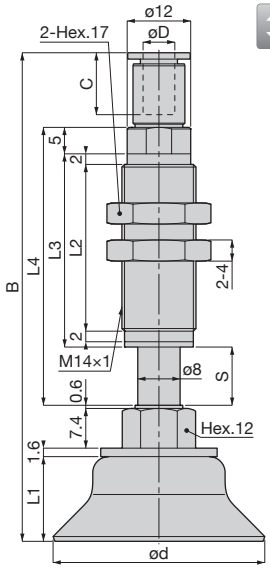
RoHS compliant

Stroke (mm) 2, 5, 10, 15

VPLFC10-3K5 6



VPLFC20-3K5 6
VPLFC30-3K5 6
VPLFC40-3K5 6
VPLFC50-3K5 6



Unit : mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC10-2K5-3J	–	3	61.7	–	21.5	26	34	–	3[2]	1.3～1.8	-M4
VPLFC10-2K5-4J		4									
VPLFC10-5K5-3J		3	67.7		24.5	29	40		6[5]	1.3～2.4	
VPLFC10-5K5-4J		4									
VPLFC10-10K5-3J		3	77.7		29.5	34	50		11[10]	1.3～3.3	
VPLFC10-10K5-4J		4									
VPLFC10-15K5-3J		3	87.7		34.5	39	60		16[15]	1.3～4.2	
VPLFC10-15K5-4J		4									
VPLFC20-5K5-3J	20	3	74.8	10	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC20-5K5-4J		4									
VPLFC20-5K5-6J		6	76.2					11.7			
VPLFC20-10K5-3J		3	84.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC20-10K5-4J		4									
VPLFC20-10K5-6J		6	86.2					11.7			
VPLFC20-15K5-3J		3	94.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC20-15K5-4J		4									
VPLFC20-15K5-6J		6	96.2					11.7			

Low Dust Emission type Plunger
Vacuum Cup Skid-proof type

Unit：mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC30-5K⑤-3J	30	3	76.8	12	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC30-5K⑤-4J		4									
VPLFC30-5K⑤-6J		6	78.2					11.7			
VPLFC30-10K⑤-3J		3	86.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC30-10K⑤-4J		4									
VPLFC30-10K⑤-6J		6	88.2					11.7			
VPLFC30-15K⑤-3J		3	96.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC30-15K⑤-4J		4									
VPLFC30-15K⑤-6J		6	98.2					11.7			
VPLFC40-5K⑤-3J	40	3	80.8	16	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC40-5K⑤-4J		4									
VPLFC40-5K⑤-6J		6	82.2					11.7			
VPLFC40-10K⑤-3J		3	90.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC40-10K⑤-4J		4									
VPLFC40-10K⑤-6J		6	92.2					11.7			
VPLFC40-15K⑤-3J		3	100.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC40-15K⑤-4J		4									
VPLFC40-15K⑤-6J		6	102.2					11.7			
VPLFC50-5K⑤-3J	50	3	81.8	17	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC50-5K⑤-4J		4									
VPLFC50-5K⑤-6J		6	83.2					11.7			
VPLFC50-10K⑤-3J		3	91.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC50-10K⑤-4J		4									
VPLFC50-10K⑤-6J		6	93.2					11.7			
VPLFC50-15K⑤-3J		3	101.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC50-15K⑤-4J		4									
VPLFC50-15K⑤-6J		6	103.2					11.7			

※. Fill in ⑤ of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be as follows
▪5~6N·m for -T8, -M4 ▪ 18~21N·m for -M6
※. Actual stroke is stated in [ ] bracket.

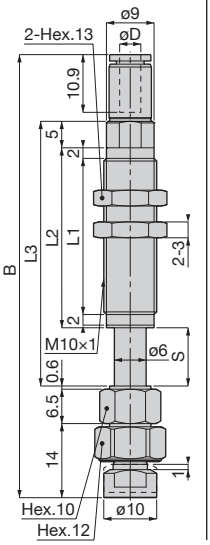
VPLFC Spring Level Compensator / Top Push-in port / Mark freer Cup

ECO PRODUCT

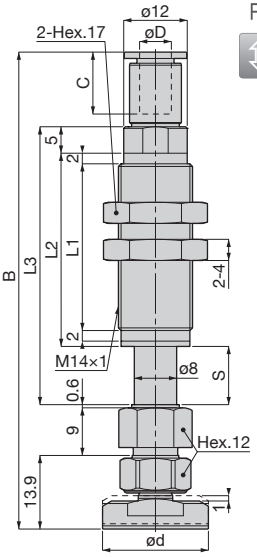
RoHS compliant

Stroke (mm) 2, 5, 10, 15

VPLFC10-3Q5 6



VPLFC20-3Q5 6
VPLFC30-3Q5 6



Unit : mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC10-2Q5-3J	–	3	67.7	21.5	26	34	–	3[2]	1.3 ~ 1.8	-M4
VPLFC10-2Q5-4J		4								
VPLFC10-5Q5-3J		3	73.7	24.5	29	40	–	6[5]	1.3 ~ 2.4	
VPLFC10-5Q5-4J		4								
VPLFC10-10Q5-3J		3	83.7	29.5	34	50	–	11[10]	1.3 ~ 3.3	
VPLFC10-10Q5-4J		4								
VPLFC10-15Q5-3J		3	93.7	34.5	39	60	–	16[15]	1.3 ~ 4.2	
VPLFC10-15Q5-4J		4								
VPLFC20-5Q5-3J	20	3	78.6	26.5	31.5	42.5	10.9	6[5]	4.5 ~ 6.5	-M6
VPLFC20-5Q5-4J		4								
VPLFC20-5Q5-6J		6	80				11.7			
VPLFC20-10Q5-3J		3	88.6	31.5	36.5	52.5	10.9	11[10]	4.5 ~ 8.2	
VPLFC20-10Q5-4J		4								
VPLFC20-10Q5-6J		6	90				11.7			
VPLFC20-15Q5-3J		3	98.6	36.5	41.5	62.5	10.9	16[15]	4.5 ~ 9.9	
VPLFC20-15Q5-4J		4								
VPLFC20-15Q5-6J		6	100				11.7			
VPLFC30-5Q5-3J	30	3	78.6	26.5	31.5	42.5	10.9	6[5]	4.5 ~ 6.5	
VPLFC30-5Q5-4J		4								
VPLFC30-5Q5-6J		6	80				11.7			
VPLFC30-10Q5-3J		3	88.6	31.5	36.5	52.5	10.9	11[10]	4.5 ~ 8.2	
VPLFC30-10Q5-4J		4								
VPLFC30-10Q5-6J		6	90				11.7			
VPLFC30-15Q5-3J		3	98.6	36.5	41.5	62.5	10.9	16[15]	4.5 ~ 9.9	
VPLFC30-15Q5-4J		4								
VPLFC30-15Q5-6J		6	100				11.7			

※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be as follows
- 5~6N·m for -T8, -M4
- 18~21N·m for -M6

※. Actual stroke is stated in [ ] bracket.

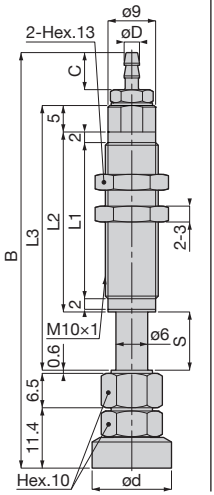
VPLFC Spring Level Compensator / Top Push-in port / Flat Cup

ECO PRODUCT

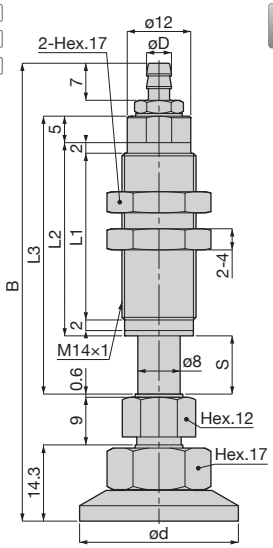
RoHS compliant

Stroke (mm) 2, 5, 10, 15

VPLFC10-3F5 6
VPLFC15-3F5 6



VPLFC20-3F5 6
VPLFC25-3F5 6
VPLFC30-3F5 6



Unit : mm

Model code	Cup dia. ød	Tubing I.D. øD	B	L1	L2	L3	C	Stroke S	Spring force (N)	Cup fitting code
VPLFC10-2F5-3B	10	2	61	21.5	26	34	6	3(2)	1.3～1.8	-M4
VPLFC10-2F5-4B		2.5	62.5				7			
VPLFC10-2F5-6B		4								
VPLFC10-5F5-3B		2	67	24.5	29	40	6	6(5)	1.3～2.4	
VPLFC10-5F5-4B		2.5	68.5				7			
VPLFC10-5F5-6B		4								
VPLFC10-10F5-3B		2	77	29.5	34	50	6	11(10)	1.3～3.3	
VPLFC10-10F5-4B		2.5	78.5				7			
VPLFC10-10F5-6B		4								
VPLFC10-15F5-3B		2	87	34.5	39	60	6	16(15)	1.3～4.2	
VPLFC10-15F5-4B		2.5	88.5				7			
VPLFC10-15F5-6B		4								
VPLFC15-2F5-3B	15	2	61	21.5	26	34	6	3(2)	1.3～1.8	
VPLFC15-2F5-4B		2.5	62.5				7			
VPLFC15-2F5-6B		4								
VPLFC15-5F5-3B		2	67	24.5	29	40	6	6(5)	1.3～2.4	
VPLFC15-5F5-4B		2.5	68.5				7			
VPLFC15-5F5-6B		4								
VPLFC15-10F5-3B		2	77	29.5	34	50	6	11(10)	1.3～3.3	
VPLFC15-10F5-4B		2.5	78.5				7			
VPLFC15-10F5-6B		4								
VPLFC15-15F5-3B		2	87	34.5	39	60	6	16(15)	1.3～4.2	
VPLFC15-15F5-4B		2.5	88.5				7			
VPLFC15-15F5-6B		4								

Low Dust Emission type Plunger
Vacuum Cup Flat type

Unit：mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L1	L2	L3	Stroke S	Spring force (N)	Cup fitting code
VPLFC20-5F□-4B	20	2.5	76.4	26.5	31.5	42.5	6(5)	4.5～6.5	-M6
VPLFC20-5F□-6B		4							
VPLFC20-10F□-4B		2.5	86.4	31.5	36.5	52.5	11(10)	4.5～8.2	
VPLFC20-10F□-6B		4							
VPLFC20-15F□-4B		2.5	96.4	36.5	41.5	62.5	16(15)	4.5～9.9	
VPLFC20-15F□-6B		4							
VPLFC25-5F□-4B	25	2.5	76.4	26.5	31.5	42.5	6(5)	4.5～6.5	
VPLFC25-5F□-6B		4							
VPLFC25-10F□-4B		2.5	86.4	31.5	36.5	52.5	11(10)	4.5～8.2	
VPLFC25-10F□-6B		4							
VPLFC25-15F□-4B		2.5	96.4	36.5	41.5	62.5	16(15)	4.5～9.9	
VPLFC25-15F□-6B		4							
VPLFC30-5F□-4B	30	2.5	76.4	26.5	31.5	42.5	6(5)	4.5～6.5	
VPLFC30-5F□-6B		4							
VPLFC30-10F□-4B		2.5	86.4	31.5	36.5	52.5	11(10)	4.5～8.2	
VPLFC30-10F□-6B		4							
VPLFC30-15F□-4B		2.5	96.4	36.5	41.5	62.5	16(15)	4.5～9.9	
VPLFC30-15F□-6B		4							

※. Fill in □ of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be as follows
- 5~6N·m for -T8, -M4
- 18~21N·m for -M6

※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger
Vacuum Cup Sponge type

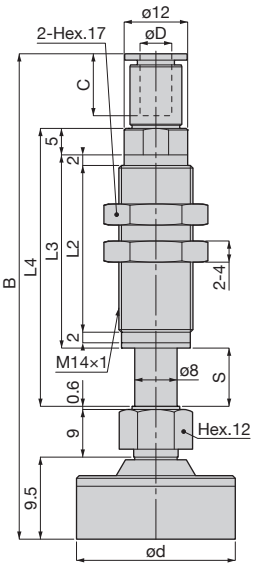
VPLFC Spring Level Compensator / Top Push-in port / Sponge Cup

ECO PRODUCT

RoHS compliant

Stroke (mm) 5,10,15

VPLFC10-3S5 6
VPLFC15-3S5 6



Unit：mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC10-5S5-3J	10	3	74.2	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC10-5S5-4J		4								
VPLFC10-5S5-6J		6	75.6				11.7			
VPLFC10-10S5-3J		3	84.2	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC10-10S5-4J		4								
VPLFC10-10S5-6J		6	85.6				11.7			
VPLFC10-15S5-3J		3	94.2	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC10-15S5-4J		4								
VPLFC10-15S5-6J		6	95.6				11.7			
VPLFC15-5S5-3J	15	3	74.2	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC15-5S5-4J		4								
VPLFC15-5S5-6J		6	75.6				11.7			
VPLFC15-10S5-3J		3	84.2	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC15-10S5-4J		4								
VPLFC15-10S5-6J		6	85.6				11.7			
VPLFC15-15S5-3J		3	94.2	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC15-15S5-4J		4								
VPLFC15-15S5-6J		6	95.6				11.7			

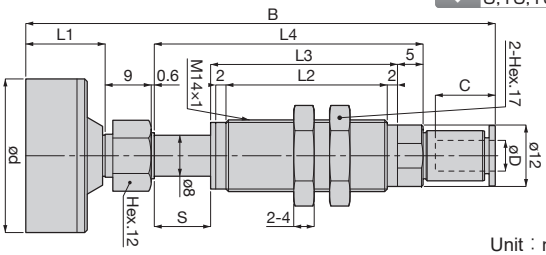
※. Fill in 5 of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Tightening torque for panel mount nuts on the plunger should be 18~21N·m
※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger　Vacuum Cup Sponge type

RoHS compliant

VPLFC20-3S56
VPLFC25-3S56
VPLFC30-3S56
VPLFC35-3S56
VPLFC50-3S56

Stroke (mm) 5,10,15



Unit : mm

Model code	Cup dia. ød	Tubing O.D. øD	B	L1	L2	L3	L4	Tube end C	Stroke S	Spring force (N)	Cup fitting code
VPLFC20-5S5-3J	20	3	80.2	15.5	26.5	31.5	42.5°	10.9	6[5]	4.5～6.5	-M6
VPLFC20-5S5-4J		4									
VPLFC20-5S5-6J		6	81.6					11.7			
VPLFC20-10S5-3J		3	90.2		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC20-10S5-4J		4									
VPLFC20-10S5-6J		6	91.6					11.7			
VPLFC20-15S5-3J		3	100.2		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC20-15S5-4J		4									
VPLFC20-15S5-6J		6	101.6					11.7			
VPLFC25-5S5-3J	25	3	80.2	15.5	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC25-5S5-4J		4									
VPLFC25-5S5-6J		6	81.6					11.7			
VPLFC25-10S5-3J		3	90.2		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC25-10S5-4J		4									
VPLFC25-10S5-6J		6	91.6					11.7			
VPLFC25-15S5-3J		3	100.2		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC25-15S5-4J		4									
VPLFC25-15S5-6J		6	101.6					11.7			
VPLFC30-5S5-3J	30	3	80.2	15.5	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC30-5S5-4J		4									
VPLFC30-5S5-6J		6	81.6					11.7			
VPLFC30-10S5-3J		3	90.2		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC30-10S5-4J		4									
VPLFC30-10S5-6J		6	91.6					11.7			
VPLFC30-15S5-3J		3	100.2		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC30-15S5-4J		4									
VPLFC30-15S5-6J		6	101.6					11.7			
VPLFC35-5S5-3J	35	3	92.8	28	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC35-5S5-4J		4									
VPLFC35-5S5-6J		6	94.2					11.7			
VPLFC35-10S5-3J		3	102.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC35-10S5-4J		4									
VPLFC35-10S5-6J		6	104.2					11.7			
VPLFC35-15S5-3J		3	112.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC35-15S5-4J		4									
VPLFC35-15S5-6J		6	114.2					11.7			
VPLFC50-5S5-3J	50	3	92.8	28	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC50-5S5-4J		4									
VPLFC50-5S5-6J		6	94.2					11.7			
VPLFC50-10S5-3J		3	102.8		31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC50-10S5-4J		4									
VPLFC50-10S5-6J		6	104.2					11.7			
VPLFC50-15S5-3J		3	112.8		36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC50-15S5-4J		4									
VPLFC50-15S5-6J		6	114.2					11.7			

Low Dust Emission type Plunger
Vacuum Cup Oval type

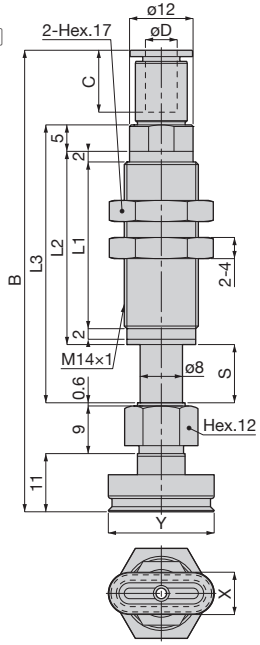
VPLFC Spring Level Compensator / Top Push-in port / Oval Cup

ECO PRODUCT

RoHS compliant

Stroke (mm) 5,10,15

VPLFC2×4-[3]E[5][6]
VPLFC3.5×7-[3]E[5][6]
VPLFC4×10-[3]E[5][6]
VPLFC4×20-[3]E[5][6]
VPLFC4×30-[3]E[5][6]
VPLFC5×10-[3]E[5][6]
VPLFC5×20-[3]E[5][6]



Unit : mm

Model code	Oval cup size		Tubing O.D.	B	L1	L2	L3	Tube end	Stroke	Spring force	Cup fitting code
	X	Y	øD					C	S	(N)	
VPLFC2×4-5E[5]-3J	2	4	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5~6.5	-M6
VPLFC2×4-5E[5]-4J			4								
VPLFC2×4-5E[5]-6J			6	77.1				11.7			
VPLFC2×4-10E[5]-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5~8.2	
VPLFC2×4-10E[5]-4J			4								
VPLFC2×4-10E[5]-6J			6	87.1				11.7			
VPLFC2×4-15E[5]-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5~9.9	
VPLFC2×4-15E[5]-4J			4								
VPLFC2×4-15E[5]-6J			6	97.1				11.7			
VPLFC3.5×7-5E[5]-3J	3.5	7	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5~6.5	
VPLFC3.5×7-5E[5]-4J			4								
VPLFC3.5×7-5E[5]-6J			6	77.1				11.7			
VPLFC3.5×7-10E[5]-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5~8.2	
VPLFC3.5×7-10E[5]-4J			4								
VPLFC3.5×7-10E[5]-6J			6	87.1				11.7			
VPLFC3.5×7-15E[5]-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5~9.9	
VPLFC3.5×7-15E[5]-4J			4								
VPLFC3.5×7-15E[5]-6J			6	97.1				11.7			

※. Fill in [5] of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be 18~21N·m
※. Actual stroke is stated in [ ] bracket.

Low Dust Emission type Plunger
Vacuum Cup Oval type

Unit：mm

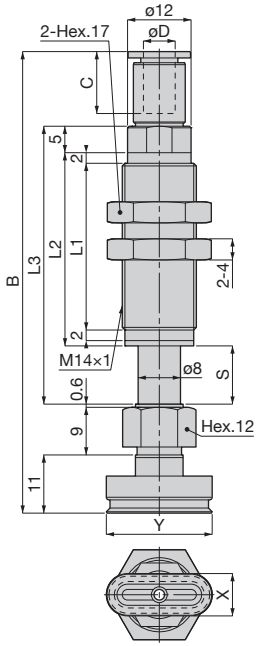
Model code	Oval cup size		Tubing O.D.	B	L1	L2	L3	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD					C	S	(N)	code
VPLFC4×10-5E□-3J	4	10	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC4×10-5E□-4J			4								
VPLFC4×10-5E□-6J			6	77.1				11.7			
VPLFC4×10-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC4×10-10E□-4J			4								
VPLFC4×10-10E□-6J			6	87.1				11.7			
VPLFC4×10-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC4×10-15E□-4J			4								
VPLFC4×10-15E□-6J			6	97.1				11.7			
VPLFC4×20-5E□-3J		20	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC4×20-5E□-4J			4								
VPLFC4×20-5E□-6J			6	77.1				11.7			
VPLFC4×20-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC4×20-10E□-4J			4								
VPLFC4×20-10E□-6J			6	87.1				11.7			
VPLFC4×20-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC4×20-15E□-4J			4								
VPLFC4×20-15E□-6J			6	97.1				11.7			
VPLFC4×30-5E□-3J		30	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC4×30-5E□-4J			4								
VPLFC4×30-5E□-6J			6	77.1				11.7			
VPLFC4×30-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC4×30-10E□-4J			4								
VPLFC4×30-10E□-6J			6	87.1				11.7			
VPLFC4×30-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC4×30-15E□-4J			4								
VPLFC4×30-15E□-6J			6	97.1				11.7			
VPLFC5×10-5E□-3J	5	10	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC5×10-5E□-4J			4								
VPLFC5×10-5E□-6J			6	77.1				11.7			
VPLFC5×10-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC5×10-10E□-4J			4								
VPLFC5×10-10E□-6J			6	87.1				11.7			
VPLFC5×10-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC5×10-15E□-4J			4								
VPLFC5×10-15E□-6J			6	97.1				11.7			
VPLFC5×20-5E□-3J		20	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC5×20-5E□-4J			4								
VPLFC5×20-5E□-6J			6	77.1				11.7			
VPLFC5×20-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC5×20-10E□-4J			4								
VPLFC5×20-10E□-6J			6	87.1				11.7			
VPLFC5×20-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC5×20-15E□-4J			4								
VPLFC5×20-15E□-6J			6	97.1				11.7			

Low Dust Emission type Plunger
Vacuum Cup Oval type

RoHS compliant

Stroke (mm)
5,10,15

VPLFC5×30-3E56
VPLFC6×10-3E56
VPLFC6×20-3E56
VPLFC6×30-3E56
VPLFC8×20-3E56
VPLFC8×30-3E56



Unit : mm

Model code	Oval cup size		Tubing O.D.	B	L1	L2	L3	Tube end	Stroke	Spring force	Cup fitting code
	X	Y	øD					C	S	(N)	
VPLFC5×30-5E5-3J	5	30	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC5×30-5E5-4J			4								
VPLFC5×30-5E5-6J			6	77.1				11.7			
VPLFC5×30-10E5-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC5×30-10E5-4J			4								
VPLFC5×30-10E5-6J			6	87.1				11.7			
VPLFC5×30-15E5-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC5×30-15E5-4J			4								
VPLFC5×30-15E5-6J			6	97.1				11.7			
VPLFC6×10-5E5-3J	6	10	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC6×10-5E5-4J			4								
VPLFC6×10-5E5-6J			6	77.1				11.7			
VPLFC6×10-10E5-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC6×10-10E5-4J			4								
VPLFC6×10-10E5-6J			6	87.1				11.7			
VPLFC6×10-15E5-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC6×10-15E5-4J			4								
VPLFC6×10-15E5-6J			6	97.1				11.7			

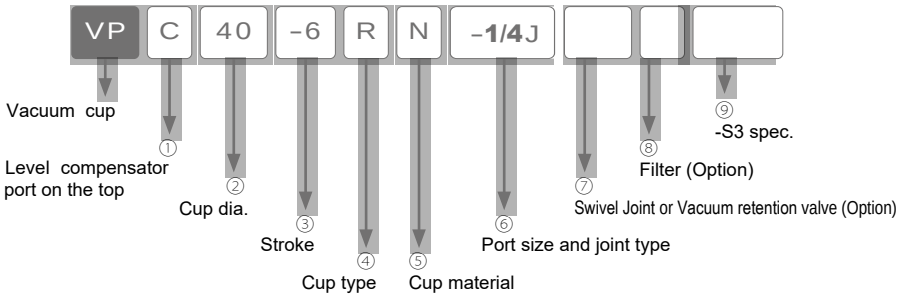
Low Dust Emission type Plunger
Vacuum Cup Oval type

Unit：mm

Model code	Oval cup size		Tubing O.D.	B	L1	L2	L3	Tube end	Stroke	Spring force	Cup fitting code
	X	Y	øD					C	S	(N)	
VPLFC6×20-5E□-3J	6	20	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	-M6
VPLFC6×20-5E□-4J			4								
VPLFC6×20-5E□-6J			6	77.1				11.7			
VPLFC6×20-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC6×20-10E□-4J			4								
VPLFC6×20-10E□-6J			6	87.1				11.7			
VPLFC6×20-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC6×20-15E□-4J			4								
VPLFC6×20-15E□-6J			6	97.1				11.7			
VPLFC6×30-5E□-3J		30	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC6×30-5E□-4J			4								
VPLFC6×30-5E□-6J			6	77.1				11.7			
VPLFC6×30-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC6×30-10E□-4J			4								
VPLFC6×30-10E□-6J			6	87.1				11.7			
VPLFC6×30-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC6×30-15E□-4J			4								
VPLFC6×30-15E□-6J			6	97.1				11.7			
VPLFC8×20-5E□-3J	8	20	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC8×20-5E□-4J			4								
VPLFC8×20-5E□-6J			6	77.1				11.7			
VPLFC8×20-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC8×20-10E□-4J			4								
VPLFC8×20-10E□-6J			6	87.1				11.7			
VPLFC8×20-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC8×20-15E□-4J			4								
VPLFC8×20-15E□-6J			6	97.1				11.7			
VPLFC8×30-5E□-3J		30	3	75.7	26.5	31.5	42.5	10.9	6[5]	4.5～6.5	
VPLFC8×30-5E□-4J			4								
VPLFC8×30-5E□-6J			6	77.1				11.7			
VPLFC8×30-10E□-3J			3	85.7	31.5	36.5	52.5	10.9	11[10]	4.5～8.2	
VPLFC8×30-10E□-4J			4								
VPLFC8×30-10E□-6J			6	87.1				11.7			
VPLFC8×30-15E□-3J			3	95.7	36.5	41.5	62.5	10.9	16[15]	4.5～9.9	
VPLFC8×30-15E□-4J			4								
VPLFC8×30-15E□-6J			6	97.1				11.7			

※. Fill in □ of the model with vacuum cup material code. Please refer to the vacuum cup chart.
※. Cup materials of nitrile rubber (N), Japan food sanitation act. NBR (G) and electrostatic discharge NBR are not suitable for usage under low concentration ozone atmosphere.
※. Tightening torque for panel mount nuts on the plunger should be 18~21N·m
※. Actual stroke is stated in [ ] bracket.

Model Designation (Example)



①. Level compensator (plunger) type and compensating stroke

Code	C	MC	SC	OC
Spring	Inner Spring type	Mini Inner Spring type	Slim Inner Spring type	Outer Spring type
Stroke	3mm ~ 20mm	2mm and 4mm	3mm	20mm ~ 50mm

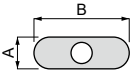
②. Cup size

Code		0.7	1	1.5	2	3	4	6	8	10	15	20	25	30	35	40	50
Dia. (mm)	Standard	ø.7	ø1	ø1.5	ø2	ø3	ø4	ø6	ø8	ø10	ø15	ø20	ø25	ø30	–	ø40	ø50
	Bellows	–	–	–	–	–	–	ø6	ø8	ø10	ø15	ø20	ø25	ø30	–	–	ø50
	Multi Bellows	–	–	–	–	–	–	–	–	ø10	–	ø20	–	ø30	–	ø40	ø50
	Skidproof	–	–	–	–	–	–	–	–	ø10	–	ø20	–	ø30	–	ø40	ø50
	Flat	–	–	–	–	–	–	–	–	ø10	ø15	ø20	ø25	ø30	–	–	–
	Mark-free	–	–	–	–	–	–	–	–	ø10	–	ø20	–	ø30	–	–	–
	Thin obj.	–	–	–	–	–	–	–	ø8	ø10	ø15	ø20	–	–	–	–	–
	Sponge	–	–	–	–	–	–	–	–	ø10	ø15	ø20	ø25	ø30	ø35	–	ø50

*Refer to the dimensions of each model code for the cup dia. over ø50, Standard cup ø60, ø80, ø100, ø150 and ø200, Bellows cup ø60, ø80, ø100 and Sponge cup ø70, ø100

■ Oval

A \ B	4mm	7mm	10mm	20mm	30mm
2mm	2 × 4	–	–	–	–
3.5mm	–	3.5 × 7	–	–	–
4mm	–	–	4 × 10	4 × 20	4 × 30
5mm	–	–	5 × 10	5 × 20	5 × 30
6mm	–	–	6 × 10	6 × 20	6 × 30
8mm	–	–	–	8 × 20	8 × 30



③. Stroke and cup fitting config. code

Code		-2	-3	-4	-6	-10	-15	-20	-30	-40	-50
Stroke (mm)		2	3	4	6	10	15	20	30	40	50
Plunger type	VPMC	-T4		-T8							
	VPSC		-H3								
	VPC		-H3		-M4, -M6	-H3,-T8,-M4,-M6,-M10	-H3,-T8,-M4,-M6	-H3,-T8,-M4,-M6,-M20			
	VPOC							-M6	-M6	-M6	-M6

④. Cup type

Code	R	A	RM	L	LB	B	W	K	P	F	Q	S	E
Type	Standard			Soft	Soft Bellows	Bellows	Multi-Bellows	Skidproof	Thin Object	Flat	Mark-free	Sponge	Oval
	General	Deep	Small										

⑤. Cup material and application

Material		Nitrile	Silicone	Urethane	Fluoro	Conductive Silicone	Conductive Butadiene (Low resistance type)	Conductive NBR (Low resistance type)	NBR suited to the Japan food sanitation act.	HNBR	EPDM
Code	Std.(General)	N	S	U	F	SE	E	NE	G	HN	EP
	Std.(Deep)	N	S	U	F	–	–	NE	G	HN	EP
	Bellows	N	S	U	F	SE	–	NE	–	HN	EP
	Oval	N	S	U	F	SE	E	NE	–	HN	EP
	Skidproof	NH	S	U	F	–	–	NE	–	–	–
	Flat	N	S	U	F	SE	–	NE	–	–	–
Application		Cardboard Plywood Iron plate Food-related Other general work-pieces	Semiconductors Taking out molded parts Thin work-pieces Food-related	Cardboard Iron plate Plywood	Chemical environment High temp. work-pieces	Semiconductors Taking out molded parts Thin work-pieces Food-related	General parts of semiconductors	Semiconductors	Cardboard Plywood Iron plate Food-related Other general work-pieces	Cardboard Plywood Iron plate Food-related Other general work-pieces For use under a low ozone concentration environment	Application that requires light-resistance or ozone-proof. For use in a moisture-containing atmosphere.

Material		Chloroprene	Silicone	PEEK	POM	Conductive PEEK
Code	Sponge	No code	S	–	–	–
	Mark-free	–	–	K	M	KE
Application		Work-pieces with rough and uneven surface	Work-pieces with rough and uneven surface Food-related	Semiconductors / Manufacturing machine for liquid crystal	General production lines Food related machine Packaging machine	Semiconductors / Manufacturing machine for liquid crystal Electronic components

※1. The Conductive Silicone rubber is a silicone rubber capable of releasing static electricity. (Volume resistance: Max. $10^5\Omega\cdot cm$)
※2. The material of Conductive Butadiene rubber (low resistance) is a butadiene rubber. (Volume resistance: Max. 200Ω·cm)
※3. The material of Conductive NBR (low resistance) is a nitrile rubber. (Volume resistance: Max. 200Ω·cm)
※4. The material of Conductive PEEK is a PEEK. (Volume resistance: $10^5\Omega\cdot cm \sim 10^6\Omega\cdot cm$)
※5. Nitrile rubber for Skidproof cup type is oilproof NBR (Code : NH).
※6. Cup material N, G, and NE are not suitable for use under ozone environment.

⑥. Port size and joint type

Joint type	Push-in fitting				Barb fitting	
Code	5/32J	1/4J	4J	6J	4B	6B
O.D. x I.D.	5/32" OD	1/4" OD	ø4mm×ø2.5mm	ø6mm×ø4mm	ø4mm×ø2.5mm	ø6mm×ø4mm

*Specify 1/4J for 6J and 5/32J for 4J of model codes of dimensional charts for inch O.D. tubings

⑦. Mark-free resin attachment (option for Bellows cup type only)

Code	-Q
option	Mark-free resin attachment

⑧. Mark-free resin attachment material (option for Bellows cup type only)

Code	K	M	KE
Material	PEEK	POM	Conductive PEEK

⑨. Swivel joint or Vacuum retention valve (option)

Code	-FH	-FHH	-ECV
Option	Swivel joint Oscillating angle : 30°	Swivel joint Oscillating angle : 15°	Vacuum retention valve

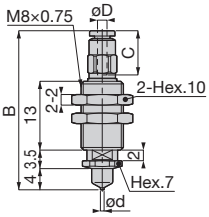
⑩. Filter (option)

Code	-F15	-F30
Applicable cup size	ø10mm~ø15mm	ø20mm~ø50mm

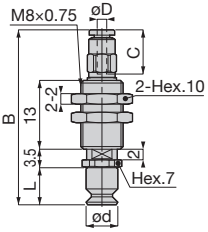
■ Vacuum cup + Spring plunger Dimensions

VPMC Spring mini plunger / Top port / Push-in fitting

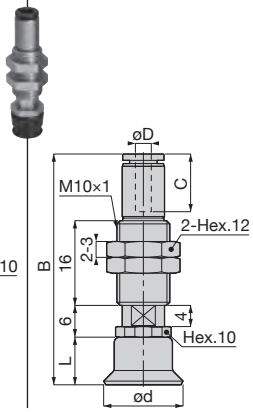
VPMC0.7-2RM5 6
VPMC1-2RM5 6
VPMC1.5-2RM5 6
VPMC2-2RM5 6
VPMC3-2RM5 6
VPMC4-2RM5 6



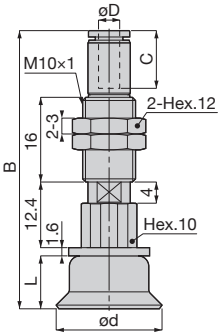
VPMC6-2R5 6
VPMC8-2R5 6



VPMC10-4R5 6 9
VPMC15-4R(A)5 6 9



VPMC20-4R(A)5 6 9
VPMC25-4R(A)5 6 9
VPMC30-4R(A)5 6 9
VPMC40-4R(A)5 6 9
VPMC50-4R(A)5 6 9



Unit : mm

Model code	Tubing O.D. øD	Cup O.D. ød	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC0.7-2RM5-180J	1.8	0.7	30.2	—	8.4	0.2 ~ 0.3	-T4
VPMC0.7-2RM5-2J	2						
VPMC0.7-2RM5-3J	3		31.2		9.4		
VPMC1-2RM5-180J	1.8	1	30.2	—	8.4	0.2 ~ 0.3	
VPMC1-2RM5-2J	2						
VPMC1-2RM5-3J	3		31.2		9.4		
VPMC1.5-2RM5-180J	1.8	1.5	30.2	—	8.4	0.2 ~ 0.3	
VPMC1.5-2RM5-2J	2						
VPMC1.5-2RM5-3J	3		31.2		9.4		
VPMC2-2RM5-180J	1.8	2	30.2	—	8.4	0.2 ~ 0.3	
VPMC2-2RM5-2J	2						
VPMC2-2RM5-3J	3		31.2		9.4		
VPMC3-2RM5-180J	1.8	3	30.2	—	8.4	0.2 ~ 0.3	
VPMC3-2RM5-2J	2						
VPMC3-2RM5-3J	3		31.2		9.4		
VPMC4-2RM5-180J	1.8	4	30.2	—	8.4	0.2 ~ 0.3	
VPMC4-2RM5-2J	2						
VPMC4-2RM5-3J	3		31.2		9.4		
VPMC6-2R5-180J	1.8	6	33.2	7	8.4	0.5 ~ 0.6	-T8
VPMC6-2R5-2J	2						
VPMC6-2R5-3J	3		34.2		9.4		
VPMC8-2R5-180J	1.8	8	31.7	5.5	8.4	0.5 ~ 0.6	
VPMC8-2R5-2J	2						
VPMC8-2R5-3J	3		32.7		9.4		

■ Vacuum cup + Spring plunger Dimensions

Stroke (mm)
2, 4

RoHS Compliant ✖ Copper alloy free available CAD (2D&3D)

Unit : mm

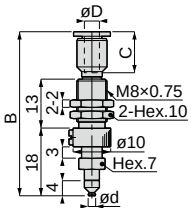
Model code	Tubing O.D. øD	Cup O.D. ød	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC10-4R5-180J	1.8	10	38.9	8	8.4	1 ~ 1.3	-M4
VPMC10-4R5-2J	2						
VPMC10-4R5-3J	3		42.7		10.9		
VPMC10-4R5-4J9	4						
VPMC15-4R(A)5-180J	1.8	15	39.9(40.9)	9(10)	8.4	1 ~ 1.3	
VPMC15-4R(A)5-2J	2						
VPMC15-4R(A)5-3J	3		43.7(44.7)		10.9		
VPMC15-4R(A)5-4J9	4						
VPMC20-4R(A)5-180J	1.8	20	48.9(49.9)	10(11)	8.4	1 ~ 1.3	-M6
VPMC20-4R(A)5-2J	2						
VPMC20-4R(A)5-3J	3		52.7(53.7)		10.9		
VPMC20-4R(A)5-4J9	4						
VPMC25-4R(A)5-180J	1.8	25	49.9(50.9)	11(12)	8.4	1 ~ 1.3	
VPMC25-4R(A)5-2J	2						
VPMC25-4R(A)5-3J	3		53.7(54.7)		10.9		
VPMC25-4R(A)5-4J9	4						
VPMC30-4R(A)5-180J	1.8	30	49.9(52.9)	11(14)	8.4	1 ~ 1.3	
VPMC30-4R(A)5-2J	2						
VPMC30-4R(A)5-3J	3		53.7(56.7)		10.9		
VPMC30-4R(A)5-4J9	4						
VPMC40-4R(A)5-180J	1.8	40	52.9(56.4)	14(17.5)	8.4	1 ~ 1.3	
VPMC40-4R(A)5-2J	2						
VPMC40-4R(A)5-3J	3		56.7(60.2)		10.9		
VPMC40-4R(A)5-4J9	4						
VPMC50-4R(A)5-180J	1.8	50	53.9(56.9)	15(18)	8.4	1 ~ 1.3	
VPMC50-4R(A)5-2J	2						
VPMC50-4R(A)5-3J	3		57.7(60.7)		10.9		
VPMC50-4R(A)5-4J9	4						

※ .Value in ( ) is the dimension of a deep type cup.
※ .5 : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .9 : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
-S3 spec. is available for model codes with 9 in the table above. -S3 spec. is available for Tube O.D. : ø1.8 and ø3mm.
※ . Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø0.7~ø8mm ▶2 .5~3.5N·m. ▪ Cup dia. : ø10~ø30mm ▶4 ~6N·m
※ .See Pisco website for weight information.

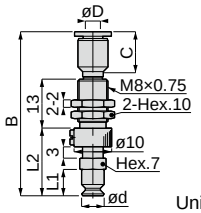
VPSC Slim plunger type / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPSC1-3R[5][6][9]
VPSC2-3R[5][6][9]
VPSC3-3R[5][6][9]
VPSC4-3R[5][6][9]



VPSC6-3R[5][6][9]
VPSC8-3R[5][6][9]



Stroke (mm)
3

Unit : mm

Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	Tube end C	Cup fitting config. code
VPSC1-3R[5]-180J	1.8	1	40.7	–	–	8.4	-H3
VPSC1-3R[5]-2J	2						
VPSC1-3R[5]-3J	3		41.7			9.4	
VPSC1-3R[5]-4J[9]	4		43.7			10.9	
VPSC2-3R[5]-180J	1.8	2	40.7	–	–	8.4	
VPSC2-3R[5]-2J	2						
VPSC2-3R[5]-3J	3		41.7			9.4	
VPSC2-3R[5]-4J[9]	4		43.7			10.9	
VPSC3-3R[5]-180J	1.8	3	40.7	–	–	8.4	
VPSC3-3R[5]-2J	2						
VPSC3-3R[5]-3J	3		41.7			9.4	
VPSC3-3R[5]-4J[9]	4		43.7			10.9	
VPSC4-3R[5]-180J	1.8	4	40.7	–	–	8.4	
VPSC4-3R[5]-2J	2						
VPSC4-3R[5]-3J	3		41.7			9.4	
VPSC4-3R[5]-4J[9]	4		43.7			10.9	
VPSC6-3R[5]-180J	1.8	6	40.7	7	18	8.4	-T8
VPSC6-3R[5]-2J	2						
VPSC6-3R[5]-3J	3		41.7			9.4	
VPSC6-3R[5]-4J[9]	4		43.7			10.9	
VPSC8-3R[5]-180J	1.8	8	39.2	5.5	16.5	8.4	
VPSC8-3R[5]-2J	2						
VPSC8-3R[5]-3J	3		40.2			9.4	
VPSC8-3R[5]-4J[9]	4		42.2			10.9	

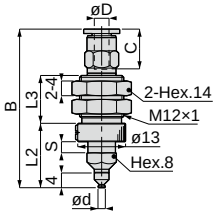
※ .[5] : Replaced with Cup rubber material code. Refer to cup material table for details.
※ .[9] : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
-S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body : 1.8~2.4N·m.
※ .Spring force : 0.9~1.9N.
※ .See Pisco website for weight information.

VPC Spring plunger / Top port / Push-in fitting

Unit : mm

VPC1 3 R 5 6 9
VPC2 3 R 5 6 9

Connection config. code -H3



Stroke (mm)
3,10,15,20

Model code	Tubing O.D. øD	Cup O.D. ød	B	L2	L3	Tube end C	Stroke S	Spring force (N)
VPC1-3R5-180J	1.8	1	39.4	17.5	13	8.4	3	0.9～1.9
VPC1-10R5-180J			53.4	27	17.5		10	0.6～1.7
VPC1-15R5-180J			64.4	32	23.5		15	0.4～1.7
VPC1-20R5-180J			74.4	37	28.5		20	0.3～1.8
VPC1-3R5-2J	2		39.4	17.5	13	8.4	3	0.9～1.9
VPC1-10R5-2J			53.4	27	17.5		10	0.6～1.7
VPC1-15R5-2J			64.4	32	23.5		15	0.4～1.7
VPC1-20R5-2J			74.4	37	28.5		20	0.3～1.8
VPC1-3R5-3J	3		43.2	17.5	13	10.9	3	0.9～1.9
VPC1-10R5-3J			57.2	27	17.5		10	0.6～1.7
VPC1-15R5-3J			68.2	32	23.5		15	0.4～1.7
VPC1-20R5-3J			78.2	37	28.5		20	0.3～1.8
VPC1-3R5-4J9	4		43.2	17.5	13	10.9	3	0.9～1.9
VPC1-10R5-4J			57.2	27	17.5		10	0.6～1.7
VPC1-15R5-4J			68.2	32	23.5		15	0.4～1.7
VPC1-20R5-4J			78.2	37	28.5		20	0.3～1.8
VPC1-3R5-6J9	6		45.1	17.5	13	11.7	3	0.9～1.9
VPC1-10R5-6J			59.1	27	17.5		10	0.6～1.7
VPC1-15R5-6J			70.1	32	23.5		15	0.4～1.7
VPC1-20R5-6J			80.1	37	28.5		20	0.3～1.8
VPC2-3R5-180J	1.8	2	39.4	17.5	13	8.4	3	0.9～1.9
VPC2-10R5-180J			53.4	27	17.5		10	0.6～1.7
VPC2-15R5-180J			64.4	32	23.5		15	0.4～1.7
VPC2-20R5-180J			74.4	37	28.5		20	0.3～1.8
VPC2-3R5-2J	2		39.4	17.5	13	8.4	3	0.9～1.9
VPC2-10R5-2J			53.4	27	17.5		10	0.6～1.7
VPC2-15R5-2J			64.4	32	23.5		15	0.4～1.7
VPC2-20R5-2J			74.4	37	28.5		20	0.3～1.8
VPC2-3R5-3J	3		43.2	17.5	13	10.9	3	0.9～1.9
VPC2-10R5-3J			57.2	27	17.5		10	0.6～1.7
VPC2-15R5-3J			68.2	32	23.5		15	0.4～1.7
VPC2-20R5-3J			78.2	37	28.5		20	0.3～1.8
VPC2-3R5-4J9	4		43.2	17.5	13	10.9	3	0.9～1.9
VPC2-10R5-4J			57.2	27	17.5		10	0.6～1.7
VPC2-15R5-4J			68.2	32	23.5		15	0.4～1.7
VPC2-20R5-4J			78.2	37	28.5		20	0.3～1.8
VPC2-3R5-6J9	6		45.1	17.5	13	11.7	3	0.9～1.9
VPC2-10R5-6J			59.1	27	17.5		10	0.6～1.7
VPC2-15R5-6J			70.1	32	23.5		15	0.4～1.7
VPC2-20R5-6J			80.1	37	28.5		20	0.3～1.8

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

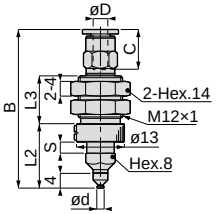
※ .5 : Replaced with Cup rubber material code. Refer to cup material table for details.
※ .9 : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
-S3 spec. is available for model codes with 9 in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø1~ø8mm▶8~10N·m
※ .See Pisco website for weight information.

Spring plunger / Top port / Push-in fitting

Unit : mm

VPC3[3]R[5][6][9]
VPC4[3]R[5][6][9]

Connection config. code
-H3



Stroke (mm)
3,10,15,20

Model code	Tubing O.D. øD	Cup O.D. ød	B	L2	L3	Tube end C	Stroke S	Spring force (N)
VPC3-3R[5]-180J	1.8	3	39.4	17.5	13	8.4	3	0.9～1.9
VPC3-10R[5]-180J			53.4	27	17.5		10	0.6～1.7
VPC3-15R[5]-180J			64.4	32	23.5		15	0.4～1.7
VPC3-20R[5]-180J			74.4	37	28.5		20	0.3～1.8
VPC3-3R[5]-2J	2		39.4	17.5	13	8.4	3	0.9～1.9
VPC3-10R[5]-2J			53.4	27	17.5		10	0.6～1.7
VPC3-15R[5]-2J			64.4	32	23.5		15	0.4～1.7
VPC3-20R[5]-2J			74.4	37	28.5		20	0.3～1.8
VPC3-3R[5]-3J	3		43.2	17.5	13	10.9	3	0.9～1.9
VPC3-10R[5]-3J			57.2	27	17.5		10	0.6～1.7
VPC3-15R[5]-3J			68.2	32	23.5		15	0.4～1.7
VPC3-20R[5]-3J			78.2	37	28.5		20	0.3～1.8
VPC3-3R[5]-4J[9]	4		43.2	17.5	13	10.9	3	0.9～1.9
VPC3-10R[5]-4J			57.2	27	17.5		10	0.6～1.7
VPC3-15R[5]-4J			68.2	32	23.5		15	0.4～1.7
VPC3-20R[5]-4J			78.2	37	28.5		20	0.3～1.8
VPC3-3R[5]-6J[9]	6		45.1	17.5	13	11.7	3	0.9～1.9
VPC3-10R[5]-6J			59.1	27	17.5		10	0.6～1.7
VPC3-15R[5]-6J			70.1	32	23.5		15	0.4～1.7
VPC3-20R[5]-6J			80.1	37	28.5		20	0.3～1.8
VPC4-3R[5]-180J	1.8	4	39.4	17.5	13	8.4	3	0.9～1.9
VPC4-10R[5]-180J			53.4	27	17.5		10	0.6～1.7
VPC4-15R[5]-180J			64.4	32	23.5		15	0.4～1.7
VPC4-20R[5]-180J			74.4	37	28.5		20	0.3～1.8
VPC4-3R[5]-2J	2		39.4	17.5	13	8.4	3	0.9～1.9
VPC4-10R[5]-2J			53.4	27	17.5		10	0.6～1.7
VPC4-15R[5]-2J			64.4	32	23.5		15	0.4～1.7
VPC4-20R[5]-2J			74.4	37	28.5		20	0.3～1.8
VPC4-3R[5]-3J	3		43.2	17.5	13	10.9	3	0.9～1.9
VPC4-10R[5]-3J			57.2	27	17.5		10	0.6～1.7
VPC4-15R[5]-3J			68.2	32	23.5		15	0.4～1.7
VPC4-20R[5]-3J			78.2	37	28.5		20	0.3～1.8
VPC4-3R[5]-4J[9]	4		43.2	17.5	13	10.9	3	0.9～1.9
VPC4-10R[5]-4J			57.2	27	17.5		10	0.6～1.7
VPC4-15R[5]-4J			68.2	32	23.5		15	0.4～1.7
VPC4-20R[5]-4J			78.2	37	28.5		20	0.3～1.8
VPC4-3R[5]-6J[9]	6		45.1	17.5	13	11.7	3	0.9～1.9
VPC4-10R[5]-6J			59.1	27	17.5		10	0.6～1.7
VPC4-15R[5]-6J			70.1	32	23.5		15	0.4～1.7
VPC4-20R[5]-6J			80.1	37	28.5		20	0.3～1.8

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

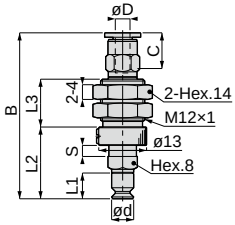
※ .[5] : Replaced with cup rubber material code. Refer to the cup material table for details.
※ .[9] : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø1~ø8mm ▶ 8~10N·m
※ .See Pisco website for weight information.

Spring plunger / Top port / Push-in fitting

Unit : mm

VPC6[3]R[5][6][9]
VPC8[3]R[5][6][9]

Connection config. code
-T8



Stroke (mm)
3,10,15,20

Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)
VPC6-3R[5]-180J	1.8	6	41.4	7	19.5	13	8.4	3	0.9～1.9
VPC6-10R[5]-180J			52.9		26.5	17.5		10	0.8～2.7
VPC6-15R[5]-180J			63.9		31.5	23.5		15	0.7～3.0
VPC6-20R[5]-180J			73.9		36.5	28.5		20	0.9～3.4
VPC6-3R[5]-2J	2		41.4		19.5	13	8.4	3	0.9～1.9
VPC6-10R[5]-2J			52.9		26.5	17.5		10	0.8～2.7
VPC6-15R[5]-2J			63.9		31.5	23.5		15	0.7～3.0
VPC6-20R[5]-2J			73.9		36.5	28.5		20	0.9～3.4
VPC6-3R[5]-3J	3		45.2		19.5	13	10.9	3	0.9～1.9
VPC6-10R[5]-3J			56.7		26.5	17.5		10	0.8～2.7
VPC6-15R[5]-3J			67.7		31.5	23.5		15	0.7～3.0
VPC6-20R[5]-3J			77.7		36.5	28.5		20	0.9～3.4
VPC6-3R[5]-4J[9]	4		45.2		19.5	13	10.9	3	0.9～1.9
VPC6-10R[5]-4J			56.7		26.5	17.5		10	0.8～2.7
VPC6-15R[5]-4J			67.7		31.5	23.5		15	0.7～3.0
VPC6-20R[5]-4J			77.7		36.5	28.5		20	0.9～3.4
VPC6-3R[5]-6J[9]	6		47.1		19.5	13	11.7	3	0.9～1.9
VPC6-10R[5]-6J			58.6		26.5	17.5		10	0.8～2.7
VPC6-15R[5]-6J			69.6		31.5	23.5		15	0.7～3.0
VPC6-20R[5]-6J			79.6		36.5	28.5		20	0.9～3.4
VPC8-3R[5]-180J	1.8	8	39.9	5.5	18	13	8.4	3	0.9～1.9
VPC8-10R[5]-180J			51.4		25	17.5		10	0.8～2.7
VPC8-15R[5]-180J			62.4		30	23.5		15	0.7～3.0
VPC8-20R[5]-180J			72.4		35	28.5		20	0.9～3.4
VPC8-3R[5]-2J	2		39.9		18	13	8.4	3	0.9～1.9
VPC8-10R[5]-2J			51.4		25	17.5		10	0.8～2.7
VPC8-15R[5]-2J			62.4		30	23.5		15	0.7～3.0
VPC8-20R[5]-2J			72.4		35	28.5		20	0.9～3.4
VPC8-3R[5]-3J	3		43.7		18	13	10.9	3	0.9～1.9
VPC8-10R[5]-3J			55.2		25	17.5		10	0.8～2.7
VPC8-15R[5]-3J			66.2		30	23.5		15	0.7～3.0
VPC8-20R[5]-3J			76.2		35	28.5		20	0.9～3.4
VPC8-3R[5]-4J[9]	4		43.7		18	13	10.9	3	0.9～1.9
VPC8-10R[5]-4J			55.2		25	17.5		10	0.8～2.7
VPC8-15R[5]-4J			66.2		30	23.5		15	0.7～3.0
VPC8-20R[5]-4J			76.2		35	28.5		20	0.9～3.4
VPC8-3R[5]-6J[9]	6		45.6		18	13	11.7	3	0.9～1.9
VPC8-10R[5]-6J			57.1		25	17.5		10	0.8～2.7
VPC8-15R[5]-6J			68.1		30	23.5		15	0.7～3.0
VPC8-20R[5]-6J			78.1		35	28.5		20	0.9～3.4

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

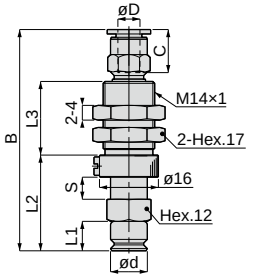
※ .[5] : Replaced with cup rubber material code. Refer to the cup material table for details.
※ .[9] : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø1~ø8mm▶8~10N·m
※ .See Pisco website for weight information.

Spring plunger / Top port / Push-in fitting

Unit : mm

VPC10[3]R[5][6][9]
VPC15[3]R(A)[5][6][9]

Connection config. code
-M4



Stroke (mm)
6,10,15,20

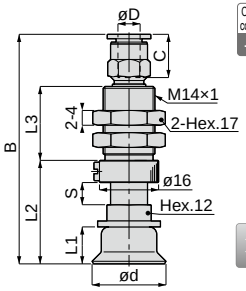
RoHS Compliant
Copper alloy free available
CAD (2D&3D)

Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)
VPC10-6R[5]-3J	3	10	58.7	8	26	20	10.9	6	4.0～7.1
VPC10-10R[5]-3J			63.2		30.5			10	2.0～5.2
VPC10-15R[5]-3J			73.2		35.5	25		15	2.0～5.9
VPC10-20R[5]-3J			89.2		42.5	34		20	1.1～4.8
VPC10-6R[5]-4J[9]	4		58.7		26	20	10.9	6	4.0～7.1
VPC10-10R[5]-4J			63.2		30.5			10	2.0～5.2
VPC10-15R[5]-4J			73.2		35.5	25		15	2.0～5.9
VPC10-20R[5]-4J			89.2		42.5	34		20	1.1～4.8
VPC10-6R[5]-6J[9]	6		60.1		26	20	11.7	6	4.0～7.1
VPC10-10R[5]-6J			64.6		30.5			10	2.0～5.2
VPC10-15R[5]-6J			74.6		35.5	25		15	2.0～5.9
VPC10-20R[5]-6J			90.6		42.5	34		20	1.1～4.8
VPC15-6R(A)[5]-3J	3	15	59.7(60.7)	9(10)	27(28)	20	10.9	6	4.0～7.1
VPC15-10R(A)[5]-3J			64.2(65.2)		31.5(32.5)			10	2.0～5.2
VPC15-15R(A)[5]-3J			74.2(75.2)		36.5(37.5)	25		15	2.0～5.9
VPC15-20R(A)[5]-3J			90.2(91.2)		43.5(44.5)	34		20	1.1～4.8
VPC15-6R(A)[5]-4J[9]	4		59.7(60.7)		27(28)	20	10.9	6	4.0～7.1
VPC15-10R(A)[5]-4J			64.2(65.2)		31.5(32.5)			10	2.0～5.2
VPC15-15R(A)[5]-4J			74.2(75.2)		36.5(37.5)	25		15	2.0～5.9
VPC15-20R(A)[5]-4J			90.2(91.2)		43.5(44.5)	34		20	1.1～4.8
VPC15-6R(A)[5]-6J[9]	6		61.1(62.1)		27(28)	20	11.7	6	4.0～7.1
VPC15-10R(A)[5]-6J			65.6(66.6)		31.5(32.5)			10	2.0～5.2
VPC15-15R(A)[5]-6J			75.6(76.6)		36.5(37.5)	25		15	2.0～5.9
VPC15-20R(A)[5]-6J			91.6(92.6)		43.5(44.5)	34		20	1.1～4.8

※.Value in ( ) is the dimension of a deep type cup.
※.[5] : Replaced with cup rubber material code. Refer to the cup material table for details.
※.[9] : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※.Cup material N, NE, and G are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø10~ø50mm▶4 .5~6N·m
※.See Pisco website for weight information.

Spring plunger / Top port / Push-in fitting

VPC20[3]R(A)[5][6][9]
VPC25[3]R(A)[5][6][9]
VPC30[3]R(A)[5][6][9]
VPC40[3]R(A)[5][6][9]
VPC50[3]R(A)[5][6][9]



Connection config. code
-M6

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

Stroke (mm)
6,10,15,20

Unit : mm

Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)
VPC20-6R(A)[5]-3J	3	20	60.7(61.7)	10(11)	28(29)	20	10.9	6	7.0～12.6
VPC20-10R(A)[5]-3J			66.7(67.7)		34(35)			10	3.3～10.0
VPC20-15R(A)[5]-3J			76.7(77.7)		39(40)	25		15	3.3～10.4
VPC20-20R(A)[5]-3J			92.7(93.7)		46(47)	34		20	2.0～8.7
VPC20-6R(A)[5]-4J[9]	4		60.7(61.7)		28(29)	20	10.9	6	7.0～12.6
VPC20-10R(A)[5]-4J			66.7(67.7)		34(35)			10	3.3～10.0
VPC20-15R(A)[5]-4J			76.7(77.7)		39(40)	25		15	3.3～10.4
VPC20-20R(A)[5]-4J			92.7(93.7)		46(47)	34		20	2.0～8.7
VPC20-6R(A)[5]-6J[9]	6		62.1(63.1)		28(29)	20	11.7	6	7.0～12.6
VPC20-10R(A)[5]-6J			68.1(69.1)		34(35)			10	3.3～10.0
VPC20-15R(A)[5]-6J			78.1(79.1)		39(40)	25		15	3.3～10.4
VPC20-20R(A)[5]-6J			94.1(95.1)		46(47)	34		20	2.0～8.7
VPC25-6R(A)[5]-3J	3	25	61.7(62.7)	11(12)	29(30)	20	10.9	6	7.0～12.6
VPC25-10R(A)[5]-3J			67.7(68.7)		35(36)			10	3.3～10.0
VPC25-15R(A)[5]-3J			77.7(78.7)		40(41)	25		15	3.3～10.4
VPC25-20R(A)[5]-3J			93.7(94.7)		47(48)	34		20	2.0～8.7
VPC25-6R(A)[5]-4J[9]	4		61.7(62.7)		29(30)	20	10.9	6	7.0～12.6
VPC25-10R(A)[5]-4J			67.7(68.7)		35(36)			10	3.3～10.0
VPC25-15R(A)[5]-4J			77.7(78.7)		40(41)	25		15	3.3～10.4
VPC25-20R(A)[5]-4J			93.7(94.7)		47(48)	34		20	2.0～8.7
VPC25-6R(A)[5]-6J[9]	6		63.1(64.1)		29(30)	20	11.7	6	7.0～12.6
VPC25-10R(A)[5]-6J			69.1(70.1)		35(36)			10	3.3～10.0
VPC25-15R(A)[5]-6J			79.1(80.1)		40(41)	25		15	3.3～10.4
VPC25-20R(A)[5]-6J			95.1(96.1)		47(48)	34		20	2.0～8.7

※ .Value in ( ) is the dimension of a deep type cup.
※ .[5] : Replaced with cup rubber material code. Refer to the cup material table for details.
※ .[9] : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø10~ø50mm▶4 .5~6N·m
※ .See Pisco website for weight information.

Spring plunger / Top port / Push-in fitting

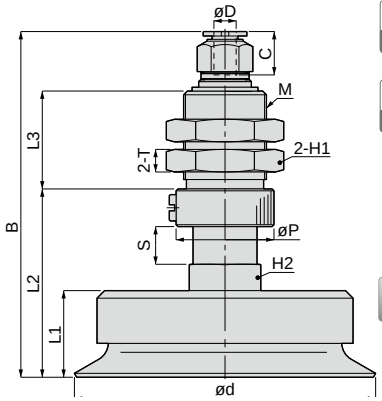
Unit : mm

Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)
VPC30-6R(A)[5]-3J	3	30	61.7(64.7)	11(14)	29(32)	20	10.9	6	7.0～12.6
VPC30-10R(A)[5]-3J			67.7(70.7)		35(38)			10	3.3～10.0
VPC30-15R(A)[5]-3J			77.7(80.7)		40(43)	25		15	3.3～10.4
VPC30-20R(A)[5]-3J			93.7(96.7)		47(50)	34		20	2.0～8.7
VPC30-6R(A)[5]-4J[9]	4		61.7(64.7)		29(32)	20	10.9	6	7.0～12.6
VPC30-10R(A)[5]-4J			67.7(70.7)		35(38)			10	3.3～10.0
VPC30-15R(A)[5]-4J			77.7(80.7)		40(43)	25		15	3.3～10.4
VPC30-20R(A)[5]-4J			93.7(96.7)		47(50)	34		20	2.0～8.7
VPC30-6R(A)[5]-6J[9]	6		63.1(66.1)		29(32)	20	11.7	6	7.0～12.6
VPC30-10R(A)[5]-6J			69.1(72.1)		35(38)			10	3.3～10.0
VPC30-15R(A)[5]-6J			79.1(82.1)		40(43)	25		15	3.3～10.4
VPC30-20R(A)[5]-6J			95.1(98.1)		47(50)	34		20	2.0～8.7
VPC40-6R(A)[5]-3J	3	40	64.7(68.2)	14(17.5)	32(35.5)	20	10.9	6	7.0～12.6
VPC40-10R(A)[5]-3J			70.7(74.2)		38(41.5)			10	3.3～10.0
VPC40-15R(A)[5]-3J			80.7(84.2)		43(46.5)	25		15	3.3～10.4
VPC40-20R(A)[5]-3J			96.7(100.2)		50(53.5)	34		20	2.0～8.7
VPC40-6R(A)[5]-4J[9]	4		64.7(68.2)		32(35.5)	20	10.9	6	7.0～12.6
VPC40-10R(A)[5]-4J			70.7(74.2)		38(41.5)			10	3.3～10.0
VPC40-15R(A)[5]-4J			80.7(84.2)		43(46.5)	25		15	3.3～10.4
VPC40-20R(A)[5]-4J			96.7(100.2)		50(53.5)	34		20	2.0～8.7
VPC40-6R(A)[5]-6J[9]	6		66.1(69.6)		32(35.5)	20	11.7	6	7.0～12.6
VPC40-10R(A)[5]-6J			72.1(75.6)		38(41.5)			10	3.3～10.0
VPC40-15R(A)[5]-6J			82.1(85.6)		43(46.5)	25		15	3.3～10.4
VPC40-20R(A)[5]-6J			98.1(101.6)		50(53.5)	34		20	2.0～8.7
VPC50-6R(A)[5]-3J	3	50	65.7(68.7)	15(18)	33(36)	20	10.9	6	7.0～12.6
VPC50-10R(A)[5]-3J			71.7(74.7)		39(42)			10	3.3～10.0
VPC50-15R(A)[5]-3J			81.7(84.7)		44(47)	25		15	3.3～10.4
VPC50-20R(A)[5]-3J			97.7(100.7)		51(54)	34		20	2.0～8.7
VPC50-6R(A)[5]-4J[9]	4		65.7(68.7)		33(36)	20	10.9	6	7.0～12.6
VPC50-10R(A)[5]-4J			71.7(74.7)		39(42)			10	3.3～10.0
VPC50-15R(A)[5]-4J			81.7(84.7)		44(47)	25		15	3.3～10.4
VPC50-20R(A)[5]-4J			97.7(100.7)		51(54)	34		20	2.0～8.7
VPC50-6R(A)[5]-6J[9]	6		67.1(70.1)		33(36)	20	11.7	6	7.0～12.6
VPC50-10R(A)[5]-6J			73.1(76.1)		39(42)			10	3.3～10.0
VPC50-15R(A)[5]-6J			83.1(86.1)		44(47)	25		15	3.3～10.4
VPC50-20R(A)[5]-6J			99.1(102.1)		51(54)	34		20	2.0～8.7

※.Value in ( ) is the dimension of a deep type cup.
※.[5] : Replaced with cup rubber material code. Refer to the cup material table for details.
※.[9] : Specify "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※.Cup material N, NE, and G are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø10~ø50mm▶4 .5~6N·m
※.See Pisco website for weight information.

Spring plunger / Top port / Push-in fitting

VPC60-10R(A)5 6
VPC80-10R(A)5 6
VPC100-10R(A)5 6
VPC150-20R5 6
VPC200-20R5 6



Connection config. code -M10

Connection config. code -M20

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

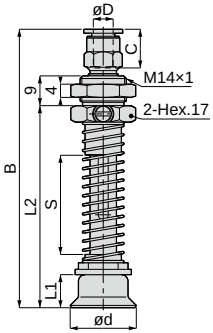
Stroke (mm) 6,10,15,20

Unit : mm

Model code	Tube O.D. øD	Pad O.D. ød	Thread M	B	L1	L2	L3	øP	Tube end C	Hex. H1	Hex. H2	T	Stroke S	Spring force (N)
VPC60-10R(A)5-4J	4	60	M22×1	87.3(94.3)	18(25)	47.6(54.6)	26	26	10.9	27	19	6	10	10.1～15.8
VPC60-10R(A)5-6J	6			89.6(96.6)					11.7					
VPC60-10R(A)5-8J	8			98.2(105.2)					18.2					
VPC80-10R(A)5-4J	4	80	M22×1	89.7(99.7)	23(33)	50(60)	26	26	10.9	27	19	6	10	10.1～15.8
VPC80-10R(A)5-6J	6			92(102)					11.7					
VPC80-10R(A)5-8J	8			100.6(110.6)					18.2					
VPC100-10R(A)5-4J	4	100	M22×1	91.7(100.7)	25(34)	52(61)	26	26	10.9	27	19	6	10	10.1～15.8
VPC100-10R(A)5-6J	6			94(103)					11.7					
VPC100-10R(A)5-8J	8			102.6(111.6)					18.2					
VPC150-20R5-6J	6	150	M30×2	180.4	45	112.1	48	35	17	36	30	10	20.1	14.0～25.5
VPC150-20R5-8J	8			181.1					18.2					
VPC150-20R5-10J	10			188.1					20.7					
VPC150-20R5-12J	12			193.3					23.3					
VPC200-20R5-6J	6	200	M30×2	185.4	50	117.1	48	35	17	36	30	10	20.1	14.0～25.5
VPC200-20R5-8J	8			186.1					18.2					
VPC200-20R5-10J	10			193.1					20.7					
VPC200-20R5-12J	12			198.3					23.3					

※ .Value in ( ) is the dimension of a deep type cup.
※ .5 : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia. : ø60~ø100mm▶1 6~20N·m. ▪Pad dia. : ø150~ø200mm▶4 2~54N·m
※ .See Pisco website for weight information.

VPOC Outer spring plunger / Top port / Push-in fitting



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

Unit : mm

Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC20-20R(A)5-3J	3	20	69.7(70.7)	10(11)	48(49)	10.9	20	1.5～4.9	-M6
VPOC20-20R(A)5-4J	4								
VPOC20-20R(A)5-6J	6		71.1(72.1)			11.7			
VPOC20-30R(A)5-3J	3		82.7(83.7)		61(62)	10.9	30	1.1～4.8	
VPOC20-30R(A)5-4J	4								
VPOC20-30R(A)5-6J	6		84.1(85.1)			11.7			
VPOC20-40R(A)5-3J	3		95.7(96.7)		74(75)	10.9	40	1.0～4.5	
VPOC20-40R(A)5-4J	4								
VPOC20-40R(A)5-6J	6		97.1(98.1)			11.7			
VPOC20-50R(A)5-3J	3		108.7(109.7)		87(88)	10.9	50	0.9～4.5	
VPOC20-50R(A)5-4J	4								
VPOC20-50R(A)5-6J	6		110.1(111.1)			11.7			
VPOC25-20R(A)5-3J	3	25	70.7(71.7)	11(12)	49(50)	10.9	20	1.5～4.9	
VPOC25-20R(A)5-4J	4								
VPOC25-20R(A)5-6J	6		72.1(73.1)			11.7			
VPOC25-30R(A)5-3J	3		83.7(84.7)		62(63)	10.9	30	1.1～4.8	
VPOC25-30R(A)5-4J	4								
VPOC25-30R(A)5-6J	6		85.1(86.1)			11.7			
VPOC25-40R(A)5-3J	3		96.7(97.7)		75(76)	10.9	40	1.0～4.5	
VPOC25-40R(A)5-4J	4								
VPOC25-40R(A)5-6J	6		98.1(99.1)			11.7			
VPOC25-50R(A)5-3J	3		109.7(110.7)		88(89)	10.9	50	0.9～4.5	
VPOC25-50R(A)5-4J	4								
VPOC25-50R(A)5-6J	6		111.1(112.1)			11.7			
VPOC30-20R(A)5-3J	3	30	70.7(73.7)	11(14)	49(52)	10.9	20	1.5～4.9	
VPOC30-20R(A)5-4J	4								
VPOC30-20R(A)5-6J	6		72.1(75.1)			11.7			
VPOC30-30R(A)5-3J	3		83.7(86.7)		62(65)	10.9	30	1.1～4.8	
VPOC30-30R(A)5-4J	4								
VPOC30-30R(A)5-6J	6		85.1(88.1)			11.7			
VPOC30-40R(A)5-3J	3		96.7(99.7)		75(78)	10.9	40	1.0～4.5	
VPOC30-40R(A)5-4J	4								
VPOC30-40R(A)5-6J	6		98.1(101.1)			11.7			
VPOC30-50R(A)5-3J	3		109.7(112.7)		88(91)	10.9	50	0.9～4.5	
VPOC30-50R(A)5-4J	4								
VPOC30-50R(A)5-6J	6		111.1(114.1)			11.7			

Unit : mm

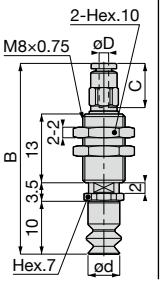
Model code	Tubing O.D. øD	Cup O.D. ød	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC40-20R(A)5-3J	3	40	73.7(77.2)	14(17.5)	52(55.5)	10.9	20	1.5～4.9	-M6
VPOC40-20R(A)5-4J	4								
VPOC40-20R(A)5-6J	6		75.1(78.6)			11.7			
VPOC40-30R(A)5-3J	3		86.7(90.2)		65(68.5)	10.9	30	1.1～4.8	
VPOC40-30R(A)5-4J	4								
VPOC40-30R(A)5-6J	6		88.1(91.6)			11.7			
VPOC40-40R(A)5-3J	3		99.7(103.2)		78(81.5)	10.9	40	1.0～4.5	
VPOC40-40R(A)5-4J	4								
VPOC40-40R(A)5-6J	6		101.1(104.6)			11.7			
VPOC40-50R(A)5-3J	3		112.7(116.2)		91(94.5)	10.9	50	0.9～4.5	
VPOC40-50R(A)5-4J	4								
VPOC40-50R(A)5-6J	6		114.1(117.6)			11.7			
VPOC50-20R(A)5-3J	3	50	74.7(77.7)	15(18)	53(56)	10.9	20	1.5～4.9	
VPOC50-20R(A)5-4J	4								
VPOC50-20R(A)5-6J	6		76.1(79.1)			11.7			
VPOC50-30R(A)5-3J	3		87.7(90.7)		66(69)	10.9	30	1.1～4.8	
VPOC50-30R(A)5-4J	4								
VPOC50-30R(A)5-6J	6		89.1(92.1)			11.7			
VPOC50-40R(A)5-3J	3		100.7(103.7)		79(82)	10.9	40	1.0～4.5	
VPOC50-40R(A)5-4J	4								
VPOC50-40R(A)5-6J	6		102.1(105.1)			11.7			
VPOC50-50R(A)5-3J	3		113.7(116.7)		92(95)	10.9	50	0.9～4.5	
VPOC50-50R(A)5-4J	4								
VPOC50-50R(A)5-6J	6		115.1(118.1)			11.7			

■ Vacuum cup + Spring plunger Dimensions

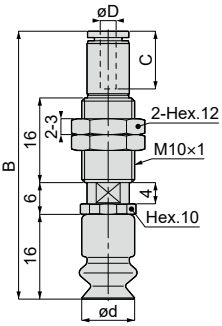
VPMC Spring mini plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

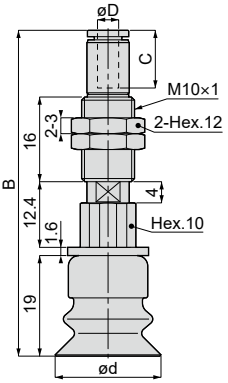
VPMC6-2B[5][6]
VPMC8-2B[5][6]



VPMC10-4B[5][6][7][8][11]
VPMC15-4B[5][6][7][8][11]



VPMC20-4B[5][6][7][8][11]
VPMC25-4B[5][6][7][8][11]



Stroke (mm)
2, 4

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	Tube end C	Spring force (N)	Cup fitting config. code
VPMC6-2B[5]-180J	6	1.8	36.2	8.4	0.5～0.6	-T8
VPMC6-2B[5]-2J		2				
VPMC6-2B[5]-3J		3	37.2	9.4		
VPMC8-2B[5]-180J	8	1.8	36.2	8.4	0.5～0.6	
VPMC8-2B[5]-2J		2				
VPMC8-2B[5]-3J		3	37.2	9.4		
VPMC10-4B[5]-180J[7][8]	10	1.8	46.9	8.4	1～1.3	-M4
VPMC10-4B[5]-2J[7][8]		2				
VPMC10-4B[5]-3J[7][8]		3	50.7	10.9		
VPMC10-4B[5]-4J[7][8][11]		4				
VPMC15-4B[5]-180J[7][8]	15	1.8	46.9	8.4	1～1.3	
VPMC15-4B[5]-2J[7][8]		2				
VPMC15-4B[5]-3J[7][8]		3	50.7	10.9		
VPMC15-4B[5]-4J[7][8][11]		4				
VPMC20-4B[5]-180J[7][8]	20	1.8	57.9	8.4	1～1.3	-M6
VPMC20-4B[5]-2J[7][8]		2				
VPMC20-4B[5]-3J[7][8]		3	61.7	10.9		
VPMC20-4B[5]-4J[7][8][11]		4				
VPMC25-4B[5]-180J[7][8]	25	1.8	57.9	8.4	1～1.3	
VPMC25-4B[5]-2J[7][8]		2				
VPMC25-4B[5]-3J[7][8]		3	61.7	10.9		
VPMC25-4B[5]-4J[7][8][11]		4				

※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[7] : Replaced with "-Q" for mark-free resin attachment.
※ .Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

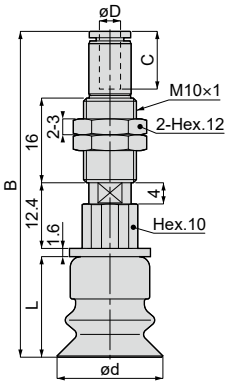
Cup O.D. (mm)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.5	0.5	0.8	1

※ .[8] : Replaced with Resin attachment material code. Refer to the relative section for details.
※ .[11] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [11] in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

■ Vacuum cup + Spring plunger Dimensions

RoHS Compliant ✖ Copper alloy free available CAD (2D&3D)

VPMC30-4B[5][6][7][8][11]
VPMC40-4B[5][6][11]
VPMC50-4B[5][6][11]



Stroke (mm)
2, 4

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC30-4B[5]-180J[7][8]	30	1.8	61.9	23	8.4	1～1.3	-M6
VPMC30-4B[5]-2J[7][8]		2					
VPMC30-4B[5]-3J[7][8]		3	65.7		10.9		
VPMC30-4B[5]-4J[7][8][11]		4					
VPMC40-4B[5]-180J[7][8]	40	1.8	68.9	30	8.4	1～1.3	
VPMC40-4B[5]-2J[7][8]		2					
VPMC40-4B[5]-3J[7][8]		3	72.7		10.9		
VPMC40-4B[5]-4J[7][8][11]		4					
VPMC50-4B[5]-180J[7][8]	50	1.8	70.9	32	8.4	1～1.3	
VPMC50-4B[5]-2J[7][8]		2					
VPMC50-4B[5]-3J[7][8]		3	74.7		10.9		
VPMC50-4B[5]-4J[7][8][11]		4					

※.[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※.[7] : Replaced with "-Q" for mark-free resin attachment.
※.Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

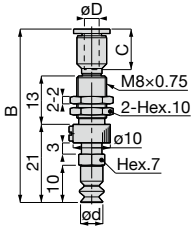
Cup O.D. (mm)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.5	0.5	0.8	1

※.[8] : Replaced with Resin attachment material code. Refer to relative chart for details.
※.[11] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [11] in the table above.
※.Cup material N and NE are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

VPSC Spring slim plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPSC6-3B5 6 11
VPSC8-3B5 6 11



Stroke (mm)
3

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	Tube end C	Spring force (N)	Cup fitting config. code
VPSC6-3B5-180J	6	1.8	43.7	8.4	0.9～1.9	-T8
VPSC6-3B5-2J		2				
VPSC6-3B5-3J		3	44.7	9.4		
VPSC6-3B5-4J11		4	46.7	10.9		
VPSC8-3B5-180J	8	1.8	43.7	8.4	0.9～1.9	
VPSC8-3B5-2J		2				
VPSC8-3B5-3J		3	44.7	9.4		
VPSC8-3B5-4J11		4	46.7	10.9		

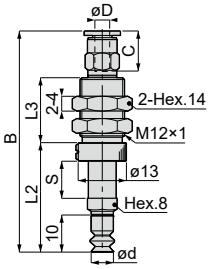
※ .5 : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .7 : Replaced with "-Q" for mark-free resin attachment.
※ .Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

Cup O.D. (mm)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.5	0.5	0.8	1

※ .8 : Replaced with Resin attachment material code. Refer to the relative chart for details.
※ .11 : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 11 in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

VPC Spring plunger / Top port / Push-in fitting

VPC6[3]B[5][6][11]
VPC8[3]B[5][6][11]



Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC6-3B[5]-180J	6	1.8	44.4	22.5	13	8.4	3	0.9～1.9	-T8
VPC6-3B[5]-2J		2							
VPC6-3B[5]-3J		3	48.2			10.9			
VPC6-3B[5]-4J[11]		4							
VPC6-3B[5]-6J[11]		6	50.1			11.7			
VPC6-10B[5]-180J		1.8	55.9	29.5	17.5	8.4	10	0.8～2.7	
VPC6-10B[5]-2J		2							
VPC6-10B[5]-3J		3	59.7			10.9			
VPC6-10B[5]-4J		4							
VPC6-10B[5]-6J		6	61.6			11.7			
VPC6-15B[5]-180J		1.8	66.9	34.5	23.5	8.4	15	0.7～3.0	
VPC6-15B[5]-2J		2							
VPC6-15B[5]-3J		3	70.7			10.9			
VPC6-15B[5]-4J		4							
VPC6-15B[5]-6J		6	72.6			11.7			
VPC6-20B[5]-180J		1.8	76.9	39.5	28.5	8.4	20	0.9～3.4	
VPC6-20B[5]-2J		2							
VPC6-20B[5]-3J		3	80.7			10.9			
VPC6-20B[5]-4J		4							
VPC6-20B[5]-6J		6	82.6			11.7			
VPC8-3B[5]-180J	8	1.8	44.4	22.5	13	8.4	3	0.9～1.9	
VPC8-3B[5]-2J		2							
VPC8-3B[5]-3J		3	48.2			10.9			
VPC8-3B[5]-4J[11]		4							
VPC8-3B[5]-6J[11]		6	50.1			11.7			
VPC8-10B[5]-180J		1.8	55.9	29.5	17.5	8.4	10	0.8～2.7	
VPC8-10B[5]-2J		2							
VPC8-10B[5]-3J		3	59.7			10.9			
VPC8-10B[5]-4J		4							
VPC8-10B[5]-6J		6	61.6			11.7			
VPC8-15B[5]-180J		1.8	66.9	34.5	23.5	8.4	15	0.7～3.0	
VPC8-15B[5]-2J		2							
VPC8-15B[5]-3J		3	70.7			10.9			
VPC8-15B[5]-4J		4							
VPC8-15B[5]-6J		6	72.6			11.7			
VPC8-20B[5]-180J		1.8	76.9	39.5	28.5	8.4	20	0.9～3.4	
VPC8-20B[5]-2J		2							
VPC8-20B[5]-3J		3	80.7			10.9			
VPC8-20B[5]-4J		4							
VPC8-20B[5]-6J		6	82.6			11.7			

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[7] : Replaced with "-Q" for mark-free resin attachment.
※ .Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

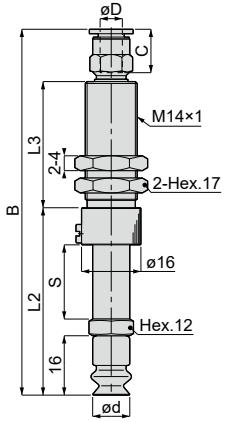
Cup O.D. (mm)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.5	0.5	0.8	1

※ .[8] : Replaced with Resin attachment material code. Refer to the relative chart for details.
※ . [11] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia.：ø6, ø8mm▶8～10N·m. ▪Pad dia.：ø10~ø25mm▶4 .5~6N·m.

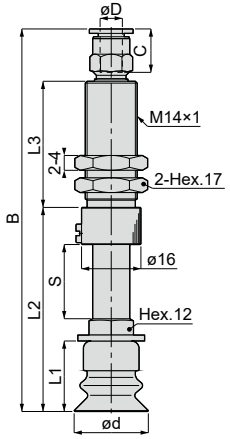
RoHS Compliant Copper alloy free available CAD (2D&3D)

Unit：mm

VPC10 3 B 5 6 7 8 11
VPC15 3 B 5 6 7 8 11



VPC20 3 B 5 6 7 8 11
VPC25 3 B 5 6 7 8 11

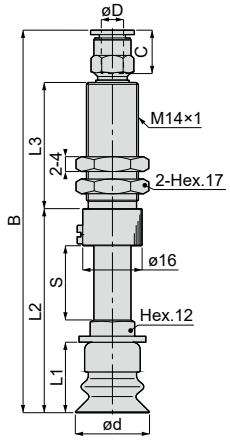


Stroke (mm)
6,10,15,20

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6B5-3J78	10	3	66.7	34	20	10.9	6	4.0～7.1	-M4
VPC10-6B5-4J7811		4							
VPC10-6B5-6J7811		6	68.1			11.7			
VPC10-10B5-3J78		3	71.2	38.5		10.9	10	2.0～5.2	
VPC10-10B5-4J78		4							
VPC10-10B5-6J78		6	72.6			11.7			
VPC10-15B5-3J78		3	81.2	43.5	25	10.9	15	2.0～5.9	
VPC10-15B5-4J78		4							
VPC10-15B5-6J78		6	82.6			11.7			
VPC10-20B5-3J78		3	97.2	50.5	34	10.9	20	1.1～4.8	
VPC10-20B5-4J78		4							
VPC10-20B5-6J78		6	98.6			11.7			
VPC15-6B5-3J78	15	3	66.7	34	20	10.9	6	4.0～7.1	
VPC15-6B5-4J7811		4							
VPC15-6B5-6J7811		6	68.1			11.7			
VPC15-10B5-3J78		3	71.2	38.5		10.9	10	2.0～5.2	
VPC15-10B5-4J78		4							
VPC15-10B5-6J78		6	72.6			11.7			
VPC15-15B5-3J78		3	81.2	43.5	25	10.9	15	2.0～5.9	
VPC15-15B5-4J78		4							
VPC15-15B5-6J78		6	82.6			11.7			
VPC15-20B5-3J78		3	97.2	50.5	34	10.9	20	1.1～4.8	
VPC15-20B5-4J78		4							
VPC15-20B5-6J78		6	98.6			11.7			
VPC20-6B5-3J78	20	3	69.7	37	20	10.9	6	7.0～12.6	-M6
VPC20-6B5-4J7811		4							
VPC20-6B5-6J7811		6	71.1			11.7			
VPC20-10B5-3J78		3	75.7	43		10.9	10	3.3～10.0	
VPC20-10B5-4J78		4							
VPC20-10B5-6J78		6	77.1			11.7			
VPC20-15B5-3J78		3	85.7	48	25	10.9	15	3.3～10.4	
VPC20-15B5-4J78		4							
VPC20-15B5-6J78		6	87.1			11.7			
VPC20-20B5-3J78		3	101.7	55	34	10.9	20	2.0～8.7	
VPC20-20B5-4J78		4							
VPC20-20B5-6J78		6	103.1			11.7			
VPC25-6B5-3J78	25	3	69.7	37	20	10.9	6	7.0～12.6	
VPC25-6B5-4J7811		4							
VPC25-6B5-6J7811		6	71.1			11.7			
VPC25-10B5-3J78		3	75.7	43		10.9	10	3.3～10.0	
VPC25-10B5-4J78		4							
VPC25-10B5-6J78		6	77.1			11.7			
VPC25-15B5-3J78		3	85.7	48	25	10.9	15	3.3～10.4	
VPC25-15B5-4J78		4							
VPC25-15B5-6J78		6	87.1			11.7			
VPC25-20B5-3J78		3	101.7	55	34	10.9	20	2.0～8.7	
VPC25-20B5-4J78		4							
VPC25-20B5-6J78		6	103.1			11.7			

VPC30[3]B[5][6][7][8][11]
VPC40[3]B[5][6][11]
VPC50[3]B[5][6][11]

Unit：mm



Stroke (mm)
6,10,15,20

RoHS Compliant
Copper alloy free available
CAD (2D&3D)

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC30-6B[5]-3J[7][8]	30	3	73.7	23	41	20	10.9	6	7.0～12.6	-M6
VPC30-6B[5]-4J[7][8][11]		4								
VPC30-6B[5]-6J[7][8][11]		6	75.1				11.7			
VPC30-10B[5]-3J[7][8]		3	79.7		47		10.9	10	3.3～10.0	
VPC30-10B[5]-4J[7][8]		4								
VPC30-10B[5]-6J[7][8]		6	81.1				11.7			
VPC30-15B[5]-3J[7][8]		3	89.7		52	25	10.9	15	3.3～10.4	
VPC30-15B[5]-4J[7][8]		4								
VPC30-15B[5]-6J[7][8]		6	91.1				11.7			
VPC30-20B[5]-3J[7][8]		3	105.7		59	34	10.9	20	2.0～8.7	
VPC30-20B[5]-4J[7][8]		4								
VPC30-20B[5]-6J[7][8]		6	107.1				11.7			
VPC40-6B[5]-3J	40	3	80.7	30	48	20	10.9	6	7.0～12.6	
VPC40-6B[5]-4J[11]		4								
VPC40-6B[5]-6J[11]		6	82.1				11.7			
VPC40-10B[5]-3J		3	86.7		54		10.9	10	3.3～10.0	
VPC40-10B[5]-4J		4								
VPC40-10B[5]-6J		6	88.1				11.7			
VPC40-15B[5]-3J		3	96.7		59	25	10.9	15	3.3～10.4	
VPC40-15B[5]-4J		4								
VPC40-15B[5]-6J		6	98.1				11.7			
VPC40-20B[5]-3J		3	112.7		66	34	10.9	20	2.0～8.7	
VPC40-20B[5]-4J		4								
VPC40-20B[5]-6J		6	114.1				11.7			
VPC50-6B[5]-3J	50	3	82.7	32	50	20	10.9	6	7.0～12.6	
VPC50-6B[5]-4J[11]		4								
VPC50-6B[5]-6J[11]		6	84.1				11.7			
VPC50-10B[5]-3J		3	88.7		56		10.9	10	3.3～10.0	
VPC50-10B[5]-4J		4								
VPC50-10B[5]-6J		6	90.1				11.7			
VPC50-15B[5]-3J		3	98.7		61	25	10.9	15	3.3～10.4	
VPC50-15B[5]-4J		4								
VPC50-15B[5]-6J		6	100.1				11.7			
VPC50-20B[5]-3J		3	114.7		68	34	10.9	20	2.0～8.7	
VPC50-20B[5]-4J		4								
VPC50-20B[5]-6J		6	116.1				11.7			

※ . Value in [ ] is the dimension of "-S3" spec.
※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[7] : Replaced with "-Q" for mark-free resin attachment.
※ .Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

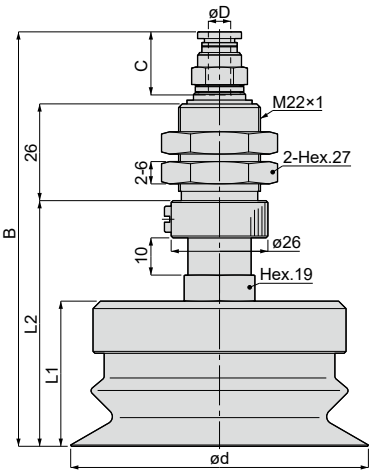
Cup O.D. (mm)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.5	0.5	0.8	1

※ .[8] : Replaced with Resin attachment material code. Refer to the relative chart for details.
※ .[11] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [11] in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

RoHS Compliant Copper alloy free available CAD (2D&3D)

Stroke (mm)
10

VPC60-10B5 6
VPC80-10B5 6
VPC100-10B5 6



Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Spring force (N)	Cup fitting config. code
VPC60-10B5-4J	60	4	106.3	37	66.6	10.9	10.1～15.8	-M10
VPC60-10B5-6J		6	108.6			11.7		
VPC60-10B5-8J		8	117.2			18.2		
VPC80-10B5-4J	80	4	105.7	39	66	10.9	10.1～15.8	
VPC80-10B5-6J		6	108			11.7		
VPC80-10B5-8J		8	116.6			18.2		
VPC100-10B5-4J	100	4	111.7	45	72	10.9	10.1～15.8	
VPC100-10B5-6J		6	114			11.7		
VPC100-10B5-8J		8	122.6			18.2		

※ .5 : Replaced with Cup rubber material code. Refer to the cup material table for details.

※ .7 : Replaced with "-Q" for mark-free resin attachment.

※ .Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

Cup O.D. (㎜)	ø10	ø15	ø20	ø25	ø30
Length added to dimension B (㎜)	0.5	0.5	0.5	0.8	1

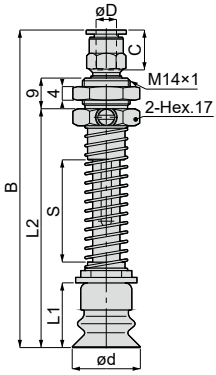
※ .8 : Replaced with Resin attachment material code. Refer to the relative chart for details.

※ .Cup material N and NE are not suitable for use under ozone environment.

※ .Tightening torque of panel mount nuts on the plunger body is 16~20N·m.

VPOC Outer spring plunger / Top port / Push-in fitting

VPOC203**B**5 6 7 8
VPOC253**B**5 6 7 8
VPOC303**B**5 6 7 8
VPOC403**B**5 6
VPOC503**B**5 6



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC20-20B5-3J7 8	20	3	78.7	19	57	10.9	20	1.5～4.9	-M6
VPOC20-20B5-4J7 8		4							
VPOC20-20B5-6J7 8		6	80.1			11.7			
VPOC20-30B5-3J7 8		3	91.7		70	10.9	30	1.1～4.8	
VPOC20-30B5-4J7 8		4							
VPOC20-30B5-6J7 8		6	93.1			11.7			
VPOC20-40B5-3J7 8		3	104.7		83	10.9	40	1.0～4.5	
VPOC20-40B5-4J7 8		4							
VPOC20-40B5-6J7 8		6	106.1			11.7			
VPOC20-50B5-3J7 8		3	117.7		96	10.9	50	0.9～4.5	
VPOC20-50B5-4J7 8		4							
VPOC20-50B5-6J7 8		6	119.1			11.7			
VPOC25-20B5-3J7 8	25	3	78.7	19	57	10.9	20	1.5～4.9	
VPOC25-20B5-4J7 8		4							
VPOC25-20B5-6J7 8		6	80.1			11.7			
VPOC25-30B5-3J7 8		3	91.7		70	10.9	30	1.1～4.8	
VPOC25-30B5-4J7 8		4							
VPOC25-30B5-6J7 8		6	93.1			11.7			
VPOC25-40B5-3J7 8		3	104.7		83	10.9	40	1.0～4.5	
VPOC25-40B5-4J7 8		4							
VPOC25-40B5-6J7 8		6	106.1			11.7			
VPOC25-50B5-3J7 8		3	117.7		96	10.9	50	0.9～4.5	
VPOC25-50B5-4J7 8		4							
VPOC25-50B5-6J7 8		6	119.1			11.7			

Vacuum Cup Bellows Series

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC30-20B5-3J78	30	3	82.7	23	61	10.9	20	1.5～4.9	-M6
VPOC30-20B5-4J78		4							
VPOC30-20B5-6J78		6	84.1			11.7			
VPOC30-30B5-3J78		3	95.7		74	10.9	30	1.1～4.8	
VPOC30-30B5-4J78		4							
VPOC30-30B5-6J78		6	97.1			11.7			
VPOC30-40B5-3J78		3	108.7		87	10.9	40	1.0～4.5	
VPOC30-40B5-4J78		4							
VPOC30-40B5-6J78		6	110.1			11.7			
VPOC30-50B5-3J78		3	121.7		100	10.9	50	0.9～4.5	
VPOC30-50B5-4J78		4							
VPOC30-50B5-6J78		6	123.1			11.7			
VPOC40-20B5-3J	40	3	89.7	30	68	10.9	20	1.5～4.9	
VPOC40-20B5-4J		4							
VPOC40-20B5-6J		6	91.1			11.7			
VPOC40-30B5-3J		3	102.7		81	10.9	30	1.1～4.8	
VPOC40-30B5-4J		4							
VPOC40-30B5-6J		6	104.1			11.7			
VPOC40-40B5-3J		3	115.7		94	10.9	40	1.0～4.5	
VPOC40-40B5-4J		4							
VPOC40-40B5-6J		6	117.1			11.7			
VPOC40-50B5-3J		3	128.7		107	10.9	50	0.9～4.5	
VPOC40-50B5-4J		4							
VPOC40-50B5-6J		6	130.1			11.7			
VPOC50-20B5-3J	50	3	91.7	32	70	10.9	20	1.5～4.9	
VPOC50-20B5-4J		4							
VPOC50-20B5-6J		6	93.1			11.7			
VPOC50-30B5-3J		3	104.7		83	10.9	30	1.1～4.8	
VPOC50-30B5-4J		4							
VPOC50-30B5-6J		6	106.1			11.7			
VPOC50-40B5-3J		3	117.7		96	10.9	40	1.0～4.5	
VPOC50-40B5-4J		4							
VPOC50-40B5-6J		6	119.1			11.7			
VPOC50-50B5-3J		3	130.7		109	10.9	50	0.9～4.5	
VPOC50-50B5-4J		4							
VPOC50-50B5-6J		6	132.1			11.7			

※ .5 : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .7 : Replaced with "-Q" for mark-free resin attachment.
※ .Add extra lengths below to the dimension B in the table above for dimension including a resin attachment.

Cup O.D. (mm)	ø20	ø25	ø30
Length added to dimension B (mm)	0.5	0.8	1

※ .8 : Replaced with Resin attachment material code. Refer to the relative chart for details.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

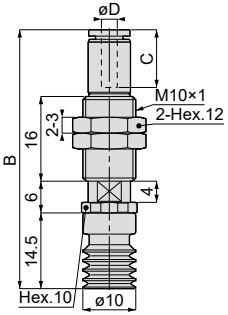
■ Vacuum cup + Spring plunger Dimensions

VPMC Spring mini plunger / Top port / Push-in fitting

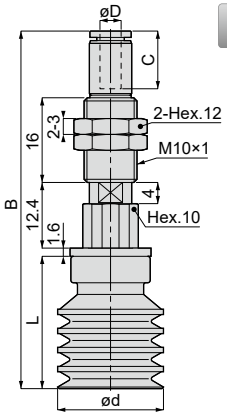
RoHS Compliant Copper alloy free available CAD (2D&3D)

Stroke (mm)
4

VPMC10W[5][6][9]



VPMC20W[5][6][9]
VPMC30W[5][6][9]
VPMC40W[5][6][9]
VPMC50W[5][6][9]



Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC10-4W[5]-180J	—	1.8	45.4	—	8.4	1～1.3	-M4
VPMC10-4W[5]-2J		2					
VPMC10-4W[5]-3J		3	49.2		10.9		
VPMC10-4W[5]-4J[9]		4					
VPMC20-4W[5]-180J	20	1.8	63.9	25	8.4	1～1.3	-M6
VPMC20-4W[5]-2J		2					
VPMC20-4W[5]-3J		3	67.7		10.9		
VPMC20-4W[5]-4J[9]		4					
VPMC30-4W[5]-180J	30	1.8	77.4	38.5	8.4	1～1.3	
VPMC30-4W[5]-2J		2					
VPMC30-4W[5]-3J		3	81.2		10.9		
VPMC30-4W[5]-4J[9]		4					
VPMC40-4W[5]-180J	40	1.8	83.9	45	8.4	1～1.3	
VPMC40-4W[5]-2J		2					
VPMC40-4W[5]-3J		3	87.7		10.9		
VPMC40-4W[5]-4J[9]		4					
VPMC50-4W[5]-180J	50	1.8	94.9	56	8.4	1～1.3	
VPMC50-4W[5]-2J		2					
VPMC50-4W[5]-3J		3	98.7		10.9		
VPMC50-4W[5]-4J[9]		4					

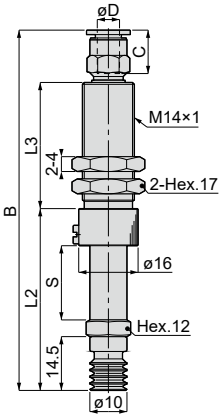
※ .[5] : Replaced with Cup rubber material code. Refer to the cup material chart for details.
※ .[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4~6N·m.

VPC Spring plunger / Top port / Push-in fitting

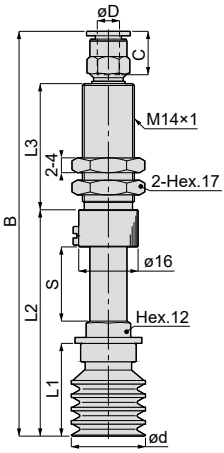
VPC10[3]W[5][6][9]

RoHS Compliant | Copper alloy free available | CAD (2D&3D)

Stroke (mm)
6,10,15,20



VPC20[3]W[5][6][9]
VPC30[3]W[5][6][9]



Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6W[5]-3J	—	3	65.2	—	32.5	20	10.9	6	4.0～7.1	-M4
VPC10-6W[5]-4J[9]		4								
VPC10-6W[5]-6J[9]		6	66.6				11.7			
VPC10-10W[5]-3J		3	69.7		37		10.9	10	2.0～5.2	
VPC10-10W[5]-4J[9]		4								
VPC10-10W[5]-6J[9]		6	71.1				11.7			
VPC10-15W[5]-3J		3	79.7		42	25	10.9	15	2.0～5.9	
VPC10-15W[5]-4J[9]		4								
VPC10-15W[5]-6J[9]		6	81.1				11.7			
VPC10-20W[5]-3J		3	95.7		49	34	10.9	20	1.1～4.8	
VPC10-20W[5]-4J[9]		4								
VPC10-20W[5]-6J[9]		6	97.1				11.7			
VPC20-6W[5]-3J	20	3	75.7	25	43	20	10.9	6	7.0～12.6	-M6
VPC20-6W[5]-4J[9]		4								
VPC20-6W[5]-6J[9]		6	77.1				11.7			
VPC20-10W[5]-3J		3	81.7		49		10.9	10	3.3～10.0	
VPC20-10W[5]-4J[9]		4								
VPC20-10W[5]-6J[9]		6	83.1				11.7			
VPC20-15W[5]-3J		3	91.7		54	25	10.9	15	3.3～10.4	
VPC20-15W[5]-4J[9]		4								
VPC20-15W[5]-6J[9]		6	93.1				11.7			
VPC20-20W[5]-3J		3	107.7		61	34	10.9	20	2.0～8.7	
VPC20-20W[5]-4J[9]		4								
VPC20-20W[5]-6J[9]		6	109.1				11.7			
VPC30-6W[5]-3J	30	3	89.2	38.5	56.5	20	10.9	6	7.0～12.6	
VPC30-6W[5]-4J[9]		4								
VPC30-6W[5]-6J[9]		6	90.6				11.7			
VPC30-10W[5]-3J		3	95.2		62.5		10.9	10	3.3～10.0	
VPC30-10W[5]-4J[9]		4								
VPC30-10W[5]-6J[9]		6	96.6				11.7			
VPC30-15W[5]-3J		3	105.2		67.5	25	10.9	15	3.3～10.4	
VPC30-15W[5]-4J[9]		4								
VPC30-15W[5]-6J[9]		6	106.6				11.7			
VPC30-20W[5]-3J		3	121.2		74.5	34	10.9	20	2.0～8.7	
VPC30-20W[5]-4J[9]		4								
VPC30-20W[5]-6J[9]		6	122.6				11.7			

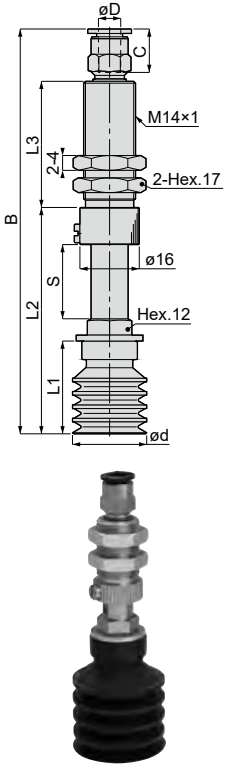
※.[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※.[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※.Cup material N, NE, and G are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

Spring Level Compensator /Multi Bellows Cup

VPC40[3]W[5][6][9]
VPC50[3]W[5][6][9]

RoHS Compliant Copper alloy free available CAD (2D&3D)

Stroke (mm)
6,10,15,20



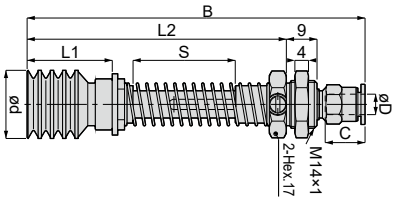
Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC40-6W[5]-3J	40	3	95.7	45	63	20	10.9	6	7.0～12.6	-M6
VPC40-6W[5]-4J[9]		4								
VPC40-6W[5]-6J[9]		6	97.1				11.7			
VPC40-10W[5]-3J		3	101.7		69		10.9	10	3.3～10.0	
VPC40-10W[5]-4J[9]		4								
VPC40-10W[5]-6J[9]		6	103.1				11.7			
VPC40-15W[5]-3J		3	111.7		74	25	10.9	15	3.3～10.4	
VPC40-15W[5]-4J[9]		4								
VPC40-15W[5]-6J[9]		6	113.1				11.7			
VPC40-20W[5]-3J		3	127.7		81	34	10.9	20	2.0～8.7	
VPC40-20W[5]-4J[9]		4								
VPC40-20W[5]-6J[9]		6	129.1				11.7			
VPC50-6W[5]-3J	50	3	106.7	56	74	20	10.9	6	7.0～12.6	
VPC50-6W[5]-4J[9]		4								
VPC50-6W[5]-6J[9]		6	108.1				11.7			
VPC50-10W[5]-3J		3	112.7		80		10.9	10	3.3～10.0	
VPC50-10W[5]-4J[9]		4								
VPC50-10W[5]-6J[9]		6	114.1				11.7			
VPC50-15W[5]-3J		3	122.7		85	25	10.9	15	3.3～10.4	
VPC50-15W[5]-4J[9]		4								
VPC50-15W[5]-6J[9]		6	124.1				11.7			
VPC50-20W[5]-3J		3	138.7		92	34	10.9	20	2.0～8.7	
VPC50-20W[5]-4J[9]		4								
VPC50-20W[5]-6J[9]		6	140.1				11.7			

※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N, NE, and G are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

VPOC Outer Spring Level Compensator / Multi Bellows Cup

VPOC20[3]W[5][6]
VPOC30[3]W[5][6]
VPOC40[3]W[5][6]
VPOC50[3]W[5][6]



Stroke (㎜)
20,30,40,50

RoHS compliant

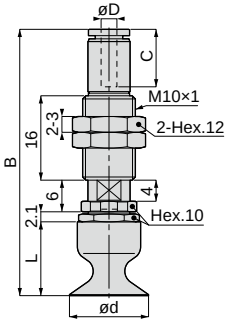
Unit : mm

Model code	Cup dia. ød	Tubing OD øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Fitting code
VPOC20-20W[5]-3J	20	3	84.7	25	63	10.9	20	1.5～4.9	
VPOC20-20W[5]-4J		4							
VPOC20-20W[5]-6J		6	86.1			11.7			
VPOC20-30W[5]-3J		3	97.7		76	10.9	30	1.1～4.8	
VPOC20-30W[5]-4J		4							
VPOC20-30W[5]-6J		6	99.1			11.7			
VPOC20-40W[5]-3J		3	110.7		89	10.9	40	1.0～4.5	
VPOC20-40W[5]-4J		4							
VPOC20-40W[5]-6J		6	112.1			11.7			
VPOC20-50W[5]-3J		3	123.7		102	10.9	50	0.9～4.5	
VPOC20-50W[5]-4J		4							
VPOC20-50W[5]-6J		6	125.1			11.7			
VPOC30-20W[5]-3J	30	3	98.2	38.5	76.5	10.9	20	1.5～4.9	-M6
VPOC30-20W[5]-4J		4							
VPOC30-20W[5]-6J		6	99.6			11.7			
VPOC30-30W[5]-3J		3	111.2		89.5	10.9	30	1.1～4.8	
VPOC30-30W[5]-4J		4							
VPOC30-30W[5]-6J		6	112.6			11.7			
VPOC30-40W[5]-3J		3	124.2		102.5	10.9	40	1.0～4.5	
VPOC30-40W[5]-4J		4							
VPOC30-40W[5]-6J		6	125.6			11.7			
VPOC30-50W[5]-3J		3	137.2		115.5	10.9	50	0.9～4.5	
VPOC30-50W[5]-4J		4							
VPOC30-50W[5]-6J		6	138.6			11.7			
VPOC40-20W[5]-3J	40	3	104.7	45	83	10.9	20	1.5～4.9	
VPOC40-20W[5]-4J		4							
VPOC40-20W[5]-6J		6	106.1			11.7			
VPOC40-30W[5]-3J		3	117.7		96	10.9	30	1.1～4.8	
VPOC40-30W[5]-4J		4							
VPOC40-30W[5]-6J		6	119.1			11.7			
VPOC40-40W[5]-3J		3	130.7		109	10.9	40	1.0～4.5	
VPOC40-40W[5]-4J		4							
VPOC40-40W[5]-6J		6	132.1			11.7			
VPOC40-50W[5]-3J		3	143.7		122	10.9	50	0.9～4.5	
VPOC40-50W[5]-4J		4							
VPOC40-50W[5]-6J		6	145.1			11.7			
VPOC50-20W[5]-3J	50	3	115.7	56	94	10.9	20	1.5～4.9	
VPOC50-20W[5]-4J		4							
VPOC50-20W[5]-6J		6	117.1			11.7			
VPOC50-30W[5]-3J		3	128.7		107	10.9	30	1.1～4.8	
VPOC50-30W[5]-4J		4							
VPOC50-30W[5]-6J		6	130.1			11.7			
VPOC50-40W[5]-3J		3	141.7		120	10.9	40	1.0～4.5	
VPOC50-40W[5]-4J		4							
VPOC50-40W[5]-6J		6	143.1			11.7			
VPOC50-50W[5]-3J		3	154.7		133	10.9	50	0.9～4.5	
VPOC50-50W[5]-4J		4							
VPOC50-50W[5]-6J		6	156.1			11.7			

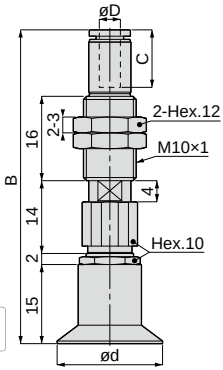
■ Vacuum cup + Spring plunger Dimensions

VPMC Spring mini plunger / Top port / Push-in fitting

VPMC4-4L[5][6][9]
VPMC6-4L[5][6][9]
VPMC8-4L[5][6][9]
VPMC10-4L[5][6][9]
VPMC15-4L[5][6][9]



VPMC20-4L[5][6][9]
VPMC30-4L[5][6][9]
VPMC40-4L[5][6][9]



Stroke (mm)
4

Unit：mm

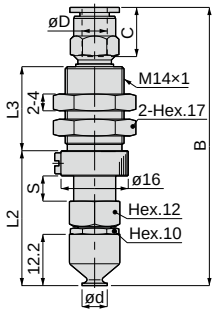
Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC4-4L[5]-180J	4	1.8	45.2	12.2	8.4	1～1.3	-M4
VPMC4-4L[5]-2J		2					
VPMC4-4L[5]-3J		3	49		10.9		
VPMC4-4L[5]-4J[9]		4					
VPMC6-4L[5]-180J	6	1.8	45.2	12.2	8.4	1～1.3	
VPMC6-4L[5]-2J		2					
VPMC6-4L[5]-3J		3	49		10.9		
VPMC6-4L[5]-4J[9]		4					
VPMC8-4L[5]-180J	8	1.8	45.2	12.2	8.4	1～1.3	
VPMC8-4L[5]-2J		2					
VPMC8-4L[5]-3J		3	49		10.9		
VPMC8-4L[5]-4J[9]		4					
VPMC10-4L[5]-180J	10	1.8	47	14	8.4	1～1.3	
VPMC10-4L[5]-2J		2					
VPMC10-4L[5]-3J		3	50.8		10.9		
VPMC10-4L[5]-4J[9]		4					
VPMC15-4L[5]-180J	15	1.8	47	14	8.4	1～1.3	
VPMC15-4L[5]-2J		2					
VPMC15-4L[5]-3J		3	50.8		10.9		
VPMC15-4L[5]-4J[9]		4					
VPMC20-4L[5]-180J	20	1.8	55.9	—	8.4	1～1.3	-M6
VPMC20-4L[5]-2J		2					
VPMC20-4L[5]-3J		3	59.7		10.9		
VPMC20-4L[5]-4J[9]		4					
VPMC30-4L[5]-180J	30	1.8	55.9	—	8.4	1～1.3	
VPMC30-4L[5]-2J		2					
VPMC30-4L[5]-3J		3	59.7		10.9		
VPMC30-4L[5]-4J[9]		4					
VPMC40-4L[5]-180J	40	1.8	55.9	—	8.4	1～1.3	
VPMC40-4L[5]-2J		2					
VPMC40-4L[5]-3J		3	59.7		10.9		
VPMC40-4L[5]-4J[9]		4					

※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4~6N·m.

VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC4[3]L[5][6][9]
VPC6[3]L[5][6][9]



Stroke (mm)
6,10,15,20

Unit：mm

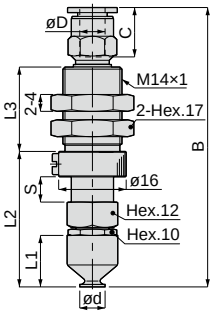
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC4-6L[5]-3J	4	3	65	—	32.3	20	10.9	6	4.0～7.1	-M4
VPC4-6L[5]-4J[9]		4								
VPC4-6L[5]-6J[9]		6	66.4				11.7			
VPC4-10L[5]-3J		3	69.5		36.8		10.9	10	2.0～5.2	
VPC4-10L[5]-4J		4								
VPC4-10L[5]-6J		6	70.9				11.7			
VPC4-15L[5]-3J		3	79.5		41.8	25	10.9	15	2.0～5.9	
VPC4-15L[5]-4J		4								
VPC4-15L[5]-6J		6	80.9				11.7			
VPC4-20L[5]-3J		3	95.5		48.8	34	10.9	20	1.1～4.8	
VPC4-20L[5]-4J		4								
VPC4-20L[5]-6J		6	96.9				11.7			
VPC6-6L[5]-3J	6	3	65		32.3	20	10.9	6	4.0～7.1	
VPC6-6L[5]-4J[9]		4								
VPC6-6L[5]-6J[9]		6	66.4				11.7			
VPC6-10L[5]-3J		3	69.5		36.8		10.9	10	2.0～5.2	
VPC6-10L[5]-4J		4								
VPC6-10L[5]-6J		6	70.9				11.7			
VPC6-15L[5]-3J		3	79.5		41.8	25	10.9	15	2.0～5.9	
VPC6-15L[5]-4J		4								
VPC6-15L[5]-6J		6	80.9				11.7			
VPC6-20L[5]-3J		3	95.5		48.8	34	10.9	20	1.1～4.8	
VPC6-20L[5]-4J		4								
VPC6-20L[5]-6J		6	96.9				11.7			

※.[5] : Replaced with Cup rubber material code. Refer to cup material table for details.
※.[9] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※.Cup material N and NE are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

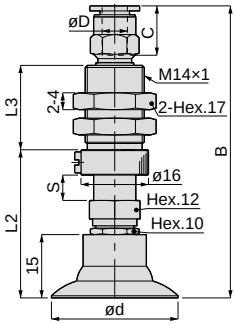
Vacuum Cup Soft Series

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC8 3 L 5 6 9
VPC10 3 L 5 6 9
VPC15 3 L 5 6 9



VPC20 3 L 5 6 9
VPC30 3 L 5 6 9
VPC40 3 L 5 6 9



Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC8-6L5-3J	8	3	65	12.2	32.3	20	10.9	6	4.0～7.1	-M4
VPC8-6L5-4J9		4								
VPC8-6L5-6J9		6	66.4				11.7			
VPC8-10L5-3J		3	69.5		36.8		10.9	10	2.0～5.2	
VPC8-10L5-4J		4								
VPC8-10L5-6J		6	70.9				11.7			
VPC8-15L5-3J		3	79.5		41.8	25	10.9	15	2.0～5.9	
VPC8-15L5-4J		4								
VPC8-15L5-6J		6	80.9				11.7			
VPC8-20L5-3J		3	95.5		48.8	34	10.9	20	1.1～4.8	
VPC8-20L5-4J		4								
VPC8-20L5-6J		6	96.9				11.7			
VPC10-6L5-3J	10	3	66.8	14	34.1	20	10.9	6	4.0～7.1	
VPC10-6L5-4J9		4								
VPC10-6L5-6J9		6	68.2				11.7			
VPC10-10L5-3J		3	71.3		38.6		10.9	10	2.0～5.2	
VPC10-10L5-4J		4								
VPC10-10L5-6J		6	72.7				11.7			
VPC10-15L5-3J		3	81.3		43.6	25	10.9	15	2.0～5.9	
VPC10-15L5-4J		4								
VPC10-15L5-6J		6	82.7				11.7			
VPC10-20L5-3J		3	97.3		50.6	34	10.9	20	1.1～4.8	
VPC10-20L5-4J		4								
VPC10-20L5-6J		6	98.7				11.7			
VPC15-6L5-3J	15	3	66.8	14	34.1	20	10.9	6	4.0～7.1	
VPC15-6L5-4J9		4								
VPC15-6L5-6J9		6	68.2				11.7			
VPC15-10L5-3J		3	71.3		38.6		10.9	10	2.0～5.2	
VPC15-10L5-4J		4								
VPC15-10L5-6J		6	72.7				11.7			
VPC15-15L5-3J		3	81.3		43.6	25	10.9	15	2.0～5.9	
VPC15-15L5-4J		4								
VPC15-15L5-6J		6	82.7				11.7			
VPC15-20L5-3J		3	97.3		50.6	34	10.9	20	1.1～4.8	
VPC15-20L5-4J		4								
VPC15-20L5-6J		6	98.7				11.7			

Unit：mm

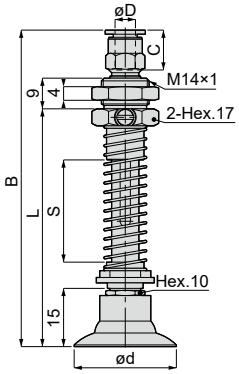
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC20-6L[5]-3J	20	3	67.7	—	35	20	10.9	6	7.0～12.6	-M6
VPC20-6L[5]-4J[9]		4								
VPC20-6L[5]-6J[9]		6	69.1				11.7			
VPC20-10L[5]-3J		3	73.7		41		10.9	10	3.3～10.0	
VPC20-10L[5]-4J		4								
VPC20-10L[5]-6J		6	75.1				11.7			
VPC20-15L[5]-3J		3	83.7		46	25	10.9	15	3.3～10.4	
VPC20-15L[5]-4J		4								
VPC20-15L[5]-6J		6	85.1				11.7			
VPC20-20L[5]-3J		3	99.7		53	34	10.9	20	2.0～8.7	
VPC20-20L[5]-4J		4								
VPC20-20L[5]-6J		6	101.1				11.7			
VPC30-6L[5]-3J	30	3	67.7	—	35	20	10.9	6	7.0～12.6	
VPC30-6L[5]-4J[9]		4								
VPC30-6L[5]-6J[9]		6	69.1				11.7			
VPC30-10L[5]-3J		3	73.7		41		10.9	10	3.3～10.0	
VPC30-10L[5]-4J		4								
VPC30-10L[5]-6J		6	75.1				11.7			
VPC30-15L[5]-3J		3	83.7		46	25	10.9	15	3.3～10.4	
VPC30-15L[5]-4J		4								
VPC30-15L[5]-6J		6	85.1				11.7			
VPC30-20L[5]-3J		3	99.7		53	34	10.9	20	2.0～8.7	
VPC30-20L[5]-4J		4								
VPC30-20L[5]-6J		6	101.1				11.7			
VPC40-6L[5]-3J	40	3	67.7	—	35	20	10.9	6	7.0～12.6	
VPC40-6L[5]-4J[9]		4								
VPC40-6L[5]-6J[9]		6	69.1				11.7			
VPC40-10L[5]-3J		3	73.7		41		10.9	10	3.3～10.0	
VPC40-10L[5]-4J		4								
VPC40-10L[5]-6J		6	75.1				11.7			
VPC40-15L[5]-3J		3	83.7		46	25	10.9	15	3.3～10.4	
VPC40-15L[5]-4J		4								
VPC40-15L[5]-6J		6	85.1				11.7			
VPC40-20L[5]-3J		3	99.7		53	34	10.9	20	2.0～8.7	
VPC40-20L[5]-4J		4								
VPC40-20L[5]-6J		6	101.1				11.7			

※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9] : Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

VPOC Outer spring plunger / Top port / Push-in fitting

RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50



Unit：mm

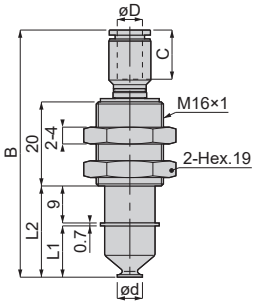
Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC20-20L5-3J	20	3	76.7	55	10.9	20	1.5～4.9	-M6
VPOC20-20L5-4J		4						
VPOC20-20L5-6J		6	78.1		11.7			
VPOC20-30L5-3J		3	89.7	68	10.9	30	1.1～4.8	
VPOC20-30L5-4J		4						
VPOC20-30L5-6J		6	91.1		11.7			
VPOC20-40L5-3J		3	102.7	81	10.9	40	1.0～4.5	
VPOC20-40L5-4J		4						
VPOC20-40L5-6J		6	104.1		11.7			
VPOC20-50L5-3J		3	115.7	94	10.9	50	0.9～4.5	
VPOC20-50L5-4J		4						
VPOC20-50L5-6J		6	117.1		11.7			
VPOC30-20L5-3J	30	3	76.7	55	10.9	20	1.5～4.9	
VPOC30-20L5-4J		4						
VPOC30-20L5-6J		6	78.1		11.7			
VPOC30-30L5-3J		3	89.7	68	10.9	30	1.1～4.8	
VPOC30-30L5-4J		4						
VPOC30-30L5-6J		6	91.1		11.7			
VPOC30-40L5-3J		3	102.7	81	10.9	40	1.0～4.5	
VPOC30-40L5-4J		4						
VPOC30-40L5-6J		6	104.1		11.7			
VPOC30-50L5-3J		3	115.7	94	10.9	50	0.9～4.5	
VPOC30-50L5-4J		4						
VPOC30-50L5-6J		6	117.1		11.7			
VPOC40-20L5-3J	40	3	76.7	55	10.9	20	1.5～4.9	
VPOC40-20L5-4J		4						
VPOC40-20L5-6J		6	78.1		11.7			
VPOC40-30L5-3J		3	89.7	68	10.9	30	1.1～4.8	
VPOC40-30L5-4J		4						
VPOC40-30L5-6J		6	91.1		11.7			
VPOC40-40L5-3J		3	102.7	81	10.9	40	1.0～4.5	
VPOC40-40L5-4J		4						
VPOC40-40L5-6J		6	104.1		11.7			
VPOC40-50L5-3J		3	115.7	94	10.9	50	0.9～4.5	
VPOC40-50L5-4J		4						
VPOC40-50L5-6J		6	117.1		11.7			

※ .5 : Fill out with a cup material code

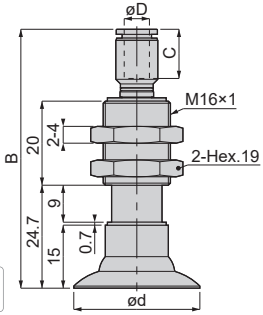
VPHC Spring Level Compensator / Push-in fitting / Soft Cup

Vacuum Cup Soft type - Softer Spring force 9mm Stroke Copper alloy free Selectable RoHS compliant

VPHC4-9L[5][6][9]
VPHC6-9L[5][6][9]
VPHC8-9L[5][6][9]
VPHC10-9L[5][6][9]
VPHC15-9L[5][6][9]



VPHC20-9L[5][6][9]
VPHC30-9L[5][6][9]
VPHC40-9L[5][6][9]



Stroke (㎜)
9

Unit : mm

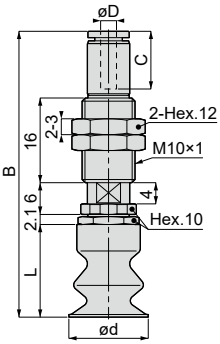
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Spring force (N)	Cup fitting config. code
VPHC4-9L[5]-180J	4	1.8	53.1	12.2	21.9	8.4	0.9～2.7	-T15
VPHC4-9L[5]-2J		2						
VPHC4-9L[5]-3J		3	56.9			10.9		
VPHC4-9L[5]-4J[9]		4						
VPHC4-9L[5]-6J[9]		6	58.3			11.7		
VPHC6-9L[5]-180J	6	1.8	53.1	12.2	21.9	8.4	0.9～2.7	
VPHC6-9L[5]-2J		2						
VPHC6-9L[5]-3J		3	56.9			10.9		
VPHC6-9L[5]-4J[9]		4						
VPHC6-9L[5]-6J[9]		6	58.3			11.7		
VPHC8-9L[5]-180J	8	1.8	53.1	12.2	21.9	8.4	0.9～2.7	
VPHC8-9L[5]-2J		2						
VPHC8-9L[5]-3J		3	56.9			10.9		
VPHC8-9L[5]-4J[9]		4						
VPHC8-9L[5]-6J[9]		6	58.3			11.7		
VPHC10-9L[5]-180J	10	1.8	54.9	14	23.7	8.4	0.9～2.7	
VPHC10-9L[5]-2J		2						
VPHC10-9L[5]-3J		3	58.7			10.9		
VPHC10-9L[5]-4J[9]		4						
VPHC10-9L[5]-6J[9]		6	60.1			11.7		
VPHC15-9L[5]-180J	15	1.8	54.9	14	23.7	8.4	0.9～2.7	
VPHC15-9L[5]-2J		2						
VPHC15-9L[5]-3J		3	58.7			10.9		
VPHC15-9L[5]-4J[9]		4						
VPHC15-9L[5]-6J[9]		6	60.1			11.7		
VPHC20-9L[5]-180J	20	1.8	55.9	—	—	8.4	0.9～2.7	-T40
VPHC20-9L[5]-2J		2						
VPHC20-9L[5]-3J		3	59.7			10.9		
VPHC20-9L[5]-4J[9]		4						
VPHC20-9L[5]-6J[9]		6	61.1			11.7		
VPHC30-9L[5]-180J	30	1.8	55.9	—	—	8.4	0.9～2.7	-T40
VPHC30-9L[5]-2J		2						
VPHC30-9L[5]-3J		3	59.7			10.9		
VPHC30-9L[5]-4J[9]		4						
VPHC30-9L[5]-6J[9]		6	61.1			11.7		
VPHC40-9L[5]-180J	40	1.8	55.9	—	—	8.4	0.9～2.7	
VPHC40-9L[5]-2J		2						
VPHC40-9L[5]-3J		3	59.7			10.9		
VPHC40-9L[5]-4J[9]		4						
VPHC40-9L[5]-6J[9]		6	61.1			11.7		

■ Vacuum cup + Spring plunger Dimensions

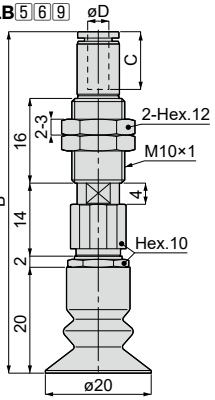
VPMC Spring mini plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPMC6-4LB[5][6][9]
VPMC8-4LB[5][6][9]
VPMC10-4LB[5][6][9]
VPMC15-4LB[5][6][9]



VPMC20-4LB[5][6][9]



Stroke (mm)
4

Unit：mm

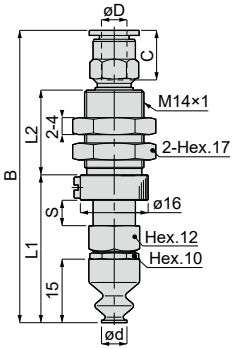
Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC6-4LB[5]-180J	6	1.8	48	15	8.4	1～1.3	-M4
VPMC6-4LB[5]-2J		2					
VPMC6-4LB[5]-3J		3	51.8		10.9		
VPMC6-4LB[5]-4J[9]		4					
VPMC8-4LB[5]-180J	8	1.8	48	15	8.4	1～1.3	
VPMC8-4LB[5]-2J		2					
VPMC8-4LB[5]-3J		3	51.8		10.9		
VPMC8-4LB[5]-4J[9]		4					
VPMC10-4LB[5]-180J	10	1.8	48.5	15.5	8.4	1～1.3	
VPMC10-4LB[5]-2J		2					
VPMC10-4LB[5]-3J		3	52.3		10.9		
VPMC10-4LB[5]-4J[9]		4					
VPMC15-4LB[5]-180J	15	1.8	50.5	17.5	8.4	1～1.3	
VPMC15-4LB[5]-2J		2					
VPMC15-4LB[5]-3J		3	54.3		10.9		
VPMC15-4LB[5]-4J[9]		4					
VPMC20-4LB[5]-180J	—	1.8	60.9	—	8.4	1～1.3	-M6
VPMC20-4LB[5]-2J		2					
VPMC20-4LB[5]-3J		3	64.7		10.9		
VPMC20-4LB[5]-4J[9]		4					

※ .[5]:Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9]:Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4~6N·m.

VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC6[3]LB[5][6][9]
VPC8[3]LB[5][6][9]



Stroke (mm)
6,10,15,20

Unit：mm

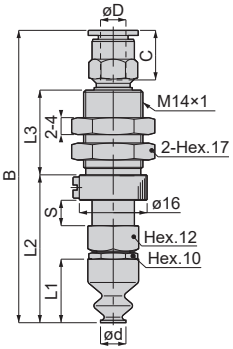
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC6-6LB[5]-3J	6	3	67.8	20	35.1	10.9	6	4.0～7.1	-M4
VPC6-6LB[5]-4J[9]		4							
VPC6-6LB[5]-6J[9]		6	69.2			11.7			
VPC6-10LB[5]-3J		3	72.3		39.6	10.9	10	2.0～5.2	
VPC6-10LB[5]-4J		4							
VPC6-10LB[5]-6J		6	73.7			11.7			
VPC6-15LB[5]-3J		3	82.3	25	44.6	10.9	15	2.0～5.9	
VPC6-15LB[5]-4J		4							
VPC6-15LB[5]-6J		6	83.7			11.7			
VPC6-20LB[5]-3J		3	98.3	34	51.6	10.9	20	1.1～4.8	
VPC6-20LB[5]-4J		4							
VPC6-20LB[5]-6J		6	99.7			11.7			
VPC8-6LB[5]-3J	8	3	67.8	20	35.1	10.9	6	4.0～7.1	
VPC8-6LB[5]-4J[9]		4							
VPC8-6LB[5]-6J[9]		6	69.2			11.7			
VPC8-10LB[5]-3J		3	72.3		39.6	10.9	10	2.0～5.2	
VPC8-10LB[5]-4J		4							
VPC8-10LB[5]-6J		6	73.7			11.7			
VPC8-15LB[5]-3J		3	82.3	25	44.6	10.9	15	2.0～5.9	
VPC8-15LB[5]-4J		4							
VPC8-15LB[5]-6J		6	83.7			11.7			
VPC8-20LB[5]-3J		3	98.3	34	51.6	10.9	20	1.1～4.8	
VPC8-20LB[5]-4J		4							
VPC8-20LB[5]-6J		6	99.7			11.7			

※ .[5]:Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9]:Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

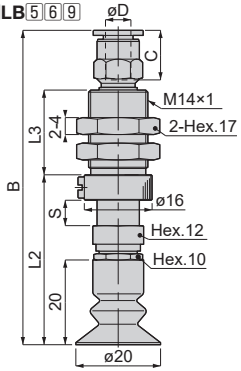
Spring Level Compensator / Top Push-in port /Soft Bellows Cup

Copper alloy free Selectable RoHS compliant

VPC10[3]LB[5][6][9]
VPC15[3]LB[5][6][9]



VPC20[3]LB[5][6][9]



Stroke (㎜) 6,10,15,20

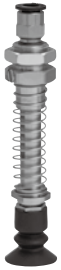
Unit : mm

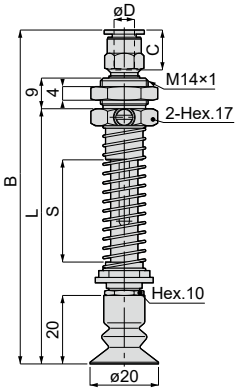
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6LB[5]-3J	10	3	68.3	15.5	35.6	20	10.9	6	4.0～7.1	-M4
VPC10-6LB[5]-4J[9]		4								
VPC10-6LB[5]-6J[9]		6	69.7				11.7			
VPC10-10LB[5]-3J		3	72.8		40.1		10.9	10	2.0～5.2	
VPC10-10LB[5]-4J		4								
VPC10-10LB[5]-6J		6	74.2				11.7			
VPC10-15LB[5]-3J		3	82.8		45.1	25	10.9	15	2.0～5.9	
VPC10-15LB[5]-4J		4								
VPC10-15LB[5]-6J		6	84.2				11.7			
VPC10-20LB[5]-3J		3	98.8		52.1	34	10.9	20	1.1～4.8	
VPC10-20LB[5]-4J		4								
VPC10-20LB[5]-6J		6	100.2				11.7			
VPC15-6LB[5]-3J	15	3	70.3	17.5	37.6	20	10.9	6	4.0～7.1	
VPC15-6LB[5]-4J[9]		4								
VPC15-6LB[5]-6J[9]		6	71.7				11.7			
VPC15-10LB[5]-3J		3	74.8		42.1		10.9	10	2.0～5.2	
VPC15-10LB[5]-4J		4								
VPC15-10LB[5]-6J		6	76.2				11.7			
VPC15-15LB[5]-3J		3	84.8		47.1	25	10.9	15	2.0～5.9	
VPC15-15LB[5]-4J		4								
VPC15-15LB[5]-6J		6	86.2				11.7			
VPC15-20LB[5]-3J		3	100.8		54.1	34	10.9	20	1.1～4.8	
VPC15-20LB[5]-4J		4								
VPC15-20LB[5]-6J		6	102.2				11.7			
VPC20-6LB[5]-4J[9]	20	4	72.7	–	40	20	10.9	6	7.0～12.6	-M6
VPC20-6LB[5]-6J[9]		6	74.1				11.7			
VPC20-10LB[5]-3J		3	78.7		46		10.9	10	3.3～10.0	
VPC20-10LB[5]-4J		4								
VPC20-10LB[5]-6J		6	80.1				11.7			
VPC20-15LB[5]-3J		3	88.7		51	25	10.9	15	3.3～10.4	
VPC20-15LB[5]-4J		4								
VPC20-15LB[5]-6J		6	90.1				11.7			
VPC20-20LB[5]-3J		3	104.7		58	34	10.9	20	2.0～8.7	
VPC20-20LB[5]-4J		4								
VPC20-20LB[5]-6J		6	106.1				11.7			

VPOC Spring type / Top port / Push-in fitting / No cover holder

RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50





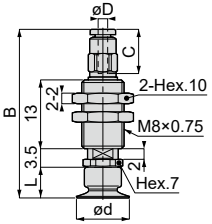
Unit：mm

Model code	Tubing O.D. øD	B	L	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC20-20LB5-3J	3	81.7	60	10.9	20	1.5～4.9	-M6
VPOC20-20LB5-4J	4						
VPOC20-20LB5-6J	6	83.1		11.7			
VPOC20-30LB5-3J	3	94.7	73	10.9	30	1.1～4.8	
VPOC20-30LB5-4J	4						
VPOC20-30LB5-6J	6	96.1		11.7			
VPOC20-40LB5-3J	3	107.7	86	10.9	40	1.0～4.5	
VPOC20-40LB5-4J	4						
VPOC20-40LB5-6J	6	109.1		11.7			
VPOC20-50LB5-3J	3	120.7	99	10.9	50	0.9～4.5	
VPOC20-50LB5-4J	4						
VPOC20-50LB5-6J	6	122.1		11.7			

※ .5:Replaced with Cup rubber material code. Refer to the cup material chart for details.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

VPMC Spring mini plunger type / Top port / Push-in fitting

VPMC8-2P[5][6][8]
VPMC10-2P[5][6][8]
VPMC15-2P[5][6][8]
VPMC20-2P[5][6][8]



Stroke (mm) **2**

RoHS Compliant

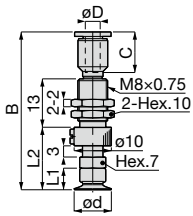
Copper alloy free available

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC8-2P[5]-180J	8	1.8	31.7	5.5	8.4	0.5～0.6	-T8
VPMC8-2P[5]-2J		2					
VPMC8-2P[5]-3J		3	32.7		9.4		
VPMC10-2P[5]-180J	10	1.8	32	5.8	8.4	0.5～0.6	
VPMC10-2P[5]-2J		2					
VPMC10-2P[5]-3J		3	33		9.4		
VPMC15-2P[5]-180J	15	1.8	32.7	6.5	8.4	0.5～0.6	
VPMC15-2P[5]-2J		2					
VPMC15-2P[5]-3J		3	33.7		9.4		
VPMC20-2P[5]-180J	20	1.8	33.5	7.3	8.4	0.5～0.6	
VPMC20-2P[5]-2J		2					
VPMC20-2P[5]-3J		3	34.5		9.4		

VPSC Spring Slim plunger / Top port / Push-in fitting

VPSC8-3P[5][6][8]
VPSC10-3P[5][6][8]
VPSC15-3P[5][6][8]
VPSC20-3P[5][6][8]



Stroke (mm) **3**

RoHS Compliant

Copper alloy free available

Unit：mm

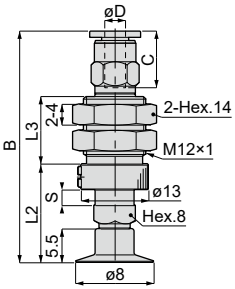
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Spring force (N)	Cup fitting config. code
VPSC8-3P[5]-180J	8	1.8	39.2	5.5	16.5	8.4	0.9～1.9	-T8
VPSC8-3P[5]-2J		2						
VPSC8-3P[5]-3J		3	40.2			9.4		
VPSC8-3P[5]-4J[8]		4	42.2			10.9		
VPSC10-3P[5]-180J	10	1.8	39.5	5.8	16.8	8.4	0.9～1.9	
VPSC10-3P[5]-2J		2						
VPSC10-3P[5]-3J		3	40.5			9.4		
VPSC10-3P[5]-4J[8]		4	42.5			10.9		
VPSC15-3P[5]-180J	15	1.8	40.2	6.5	17.5	8.4	0.9～1.9	
VPSC15-3P[5]-2J		2						
VPSC15-3P[5]-3J		3	41.2			9.4		
VPSC15-3P[5]-4J[8]		4	43.2			10.9		
VPSC20-3P[5]-180J	20	1.8	41	7.3	18.3	8.4	0.9～1.9	
VPSC20-3P[5]-2J		2						
VPSC20-3P[5]-3J		3	42			9.4		
VPSC20-3P[5]-4J[8]		4	44			10.9		

※.[5]: Replaced with Cup rubber material code. Refer to the cup material table for details.
※.[8]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [8] in the table above.
※.Cup material N and NE are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is 2.5~3.5N·m.

VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC8[3]P[5][6][8]



Stroke (mm)
3,10,15,20

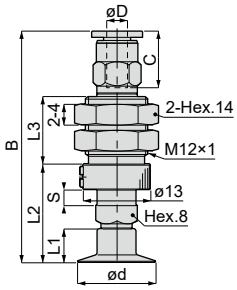
Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC8-3P[5]-180J	—	1.8	39.9	—	18	13	8.4	3	1.0～1.9	-T8
VPC8-3P[5]-2J		2								
VPC8-3P[5]-3J		3	43.7				10.9			
VPC8-3P[5]-4J[8]		4								
VPC8-3P[5]-6J[8]		6	45.6				11.7			
VPC8-10P[5]-180J		1.8	51.4		25	17.5	8.4	10	0.8～2.7	
VPC8-10P[5]-2J		2								
VPC8-10P[5]-3J		3	55.2				10.9			
VPC8-10P[5]-4J		4								
VPC8-10P[5]-6J		6	57.1				11.7			
VPC8-15P[5]-180J		1.8	62.4		30	23.5	8.4	15	0.7～3.0	
VPC8-15P[5]-2J		2								
VPC8-15P[5]-3J		3	66.2				10.9			
VPC8-15P[5]-4J		4								
VPC8-15P[5]-6J		6	68.1				11.7			
VPC8-20P[5]-180J		1.8	72.4		35	28.5	8.4	20	0.9～3.4	
VPC8-20P[5]-2J		2								
VPC8-20P[5]-3J		3	76.2				10.9			
VPC8-20P[5]-4J		4								
VPC8-20P[5]-6J		6	78.1				11.7			

※ .[5]: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[8]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [8] in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 1.8~2.4N·m.

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC103**P**5 6 8
VPC153**P**5 6 8
VPC203**P**5 6 8



Stroke (mm)
3,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-3P5-180J	10	1.8	40.2	5.8	18.3	13	8.4	3	1.0～1.9	-T8
VPC10-3P5-2J		2								
VPC10-3P5-3J		3	44				10.9			
VPC10-3P5-4J8		4								
VPC10-3P5-6J8		6	45.9				11.7			
VPC10-10P5-180J		1.8	51.7		25.3	17.5	8.4	10	0.8～2.7	
VPC10-10P5-2J		2								
VPC10-10P5-3J		3	55.5				10.9			
VPC10-10P5-4J		4								
VPC10-10P5-6J		6	57.4				11.7			
VPC10-15P5-180J		1.8	62.7		30.3	23.5	8.4	15	0.7～3.0	
VPC10-15P5-2J		2								
VPC10-15P5-3J		3	66.5				10.9			
VPC10-15P5-4J		4								
VPC10-15P5-6J		6	68.4				11.7			
VPC10-20P5-180J		1.8	72.7		35.3	28.5	8.4	20	0.9～3.4	
VPC10-20P5-2J		2								
VPC10-20P5-3J		3	76.5				10.9			
VPC10-20P5-4J		4								
VPC10-20P5-6J		6	78.4				11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .8: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 8 in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts for plunger body is 1.8~2.4N·m.

Vacuum Cup Thin Object Series

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC15-3P5-180J	15	1.8	40.9	6.5	19	13	8.4	3	1.0～1.9	-T8
VPC15-3P5-2J		2								
VPC15-3P5-3J		3	44.7				10.9			
VPC15-3P5-4J8		4								
VPC15-3P5-6J8		6	46.6				11.7			
VPC15-10P5-180J		1.8	52.4		26	17.5	8.4	10	0.8～2.7	
VPC15-10P5-2J		2								
VPC15-10P5-3J		3	56.2				10.9			
VPC15-10P5-4J		4								
VPC15-10P5-6J		6	58.1				11.7			
VPC15-15P5-180J		1.8	63.4		31	23.5	8.4	15	0.7～3.0	
VPC15-15P5-2J		2								
VPC15-15P5-3J		3	67.2				10.9			
VPC15-15P5-4J		4								
VPC15-15P5-6J		6	69.1				11.7			
VPC15-20P5-180J		1.8	73.4		36	28.5	8.4	20	0.9～3.4	
VPC15-20P5-2J		2								
VPC15-20P5-3J		3	77.2				10.9			
VPC15-20P5-4J		4								
VPC15-20P5-6J		6	79.1				11.7			
VPC20-3P5-180J	20	1.8	41.7	7.3	19.8	13	8.4	3	1.0～1.9	
VPC20-3P5-2J		2								
VPC20-3P5-3J		3	45.5				10.9			
VPC20-3P5-4J8		4								
VPC20-3P5-6J8		6	47.4				11.7			
VPC20-10P5-180J		1.8	53.2		26.8	17.5	8.4	10	0.8～2.7	
VPC20-10P5-2J		2								
VPC20-10P5-3J		3	57				10.9			
VPC20-10P5-4J		4								
VPC20-10P5-6J		6	58.9				11.7			
VPC20-15P5-180J		1.8	64.2		31.8	23.5	8.4	15	0.7～3.0	
VPC20-15P5-2J		2								
VPC20-15P5-3J		3	68				10.9			
VPC20-15P5-4J		4								
VPC20-15P5-6J		6	69.9				11.7			
VPC20-20P5-180J		1.8	74.2		36.8	28.5	8.4	20	0.9～3.4	
VPC20-20P5-2J		2								
VPC20-20P5-3J		3	78				10.9			
VPC20-20P5-4J		4								
VPC20-20P5-6J		6	79.9				11.7			

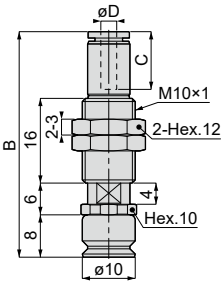
※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .8: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 8 in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 1.8~2.4N·m.

■ Vacuum cup + Spring plunger Dimensions

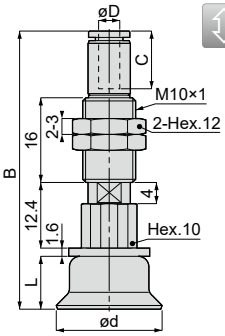
VPMC Spring mini plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPMC10-4K5 6 9



VPMC20-4K5 6 9
VPMC30-4K5 6 9
VPMC40-4K5 6 9
VPMC50-4K5 6 9



Stroke (mm)
4

Unit：mm

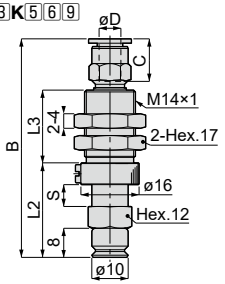
Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC10-4K5-180J	—	1.8	38.9	—	8.4	1～1.3	-M4
VPMC10-4K5-2J		2					
VPMC10-4K5-3J		3	42.7		10.9		
VPMC10-4K5-4J9		4					
VPMC20-4K5-180J	20	1.8	48.9	10	8.4	1～1.3	-M6
VPMC20-4K5-2J		2					
VPMC20-4K5-3J		3	52.7		10.9		
VPMC20-4K5-4J9		4					
VPMC30-4K5-180J	30	1.8	50.9	12	8.4	1～1.3	
VPMC30-4K5-2J		2					
VPMC30-4K5-3J		3	54.7		10.9		
VPMC30-4K5-4J9		4					
VPMC40-4K5-180J	40	1.8	54.9	16	8.4	1～1.3	
VPMC40-4K5-2J		2					
VPMC40-4K5-3J		3	58.7		10.9		
VPMC40-4K5-4J9		4					
VPMC50-4K5-180J	50	1.8	55.9	17	8.4	1～1.3	
VPMC50-4K5-2J		2					
VPMC50-4K5-3J		3	59.7		10.9		
VPMC50-4K5-4J9		4					

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .9: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※ .Cup material NH and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4~6N·m.

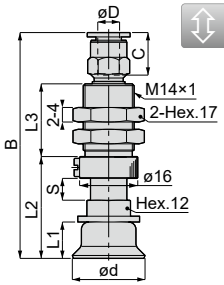
VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC10[3]K[5][6][9]



VPC20[3]K[5][6][9]
VPC30[3]K[5][6][9]
VPC40[3]K[5][6][9]
VPC50[3]K[5][6][9]



Stroke (mm)
6,10,15,20

Unit：mm

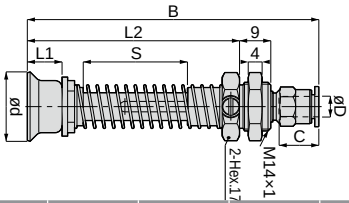
Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6K[5]-3J		3	58.7		26		10.9	6	4.0～7.1	
VPC10-6K[5]-4J[9]		4								
VPC10-6K[5]-6J[9]		6	60.1			20	11.7			
VPC10-10K[5]-3J		3	63.2		30.5		10.9	10	2.0～5.2	
VPC10-10K[5]-4J		4								
VPC10-10K[5]-6J	—	6	64.6	—			11.7			-M4
VPC10-15K[5]-3J		3	73.2		35.5	25	10.9	15	2.0～5.9	
VPC10-15K[5]-4J		4								
VPC10-15K[5]-6J		6	74.6				11.7			
VPC10-20K[5]-3J		3	89.2		42.5	34	10.9	20	1.1～4.8	
VPC10-20K[5]-4J		4								
VPC10-20K[5]-6J		6	90.6				11.7			
VPC20-6K[5]-3J		3	60.7		28		10.9	6	7.0～12.6	
VPC20-6K[5]-4J[9]		4								
VPC20-6K[5]-6J[9]		6	62.1			20	11.7			
VPC20-10K[5]-3J		3	66.7		34		10.9	10	3.3～10.0	
VPC20-10K[5]-4J		4								
VPC20-10K[5]-6J	20	6	68.1	10			11.7			
VPC20-15K[5]-3J		3	76.7		39	25	10.9	15	3.3～10.4	
VPC20-15K[5]-4J		4								
VPC20-15K[5]-6J		6	78.1				11.7			
VPC20-20K[5]-3J		3	92.7		46	34	10.9	20	2.0～8.7	
VPC20-20K[5]-4J		4								
VPC20-20K[5]-6J		6	94.1				11.7			-M6
VPC30-6K[5]-3J		3	62.7		30		10.9	6	7.0～12.6	
VPC30-6K[5]-4J[9]		4								
VPC30-6K[5]-6J[9]		6	64.1			20	11.7			
VPC30-10K[5]-3J		3	68.7		36		10.9	10	3.3～10.0	
VPC30-10K[5]-4J		4								
VPC30-10K[5]-6J	30	6	70.1	12			11.7			
VPC30-15K[5]-3J		3	78.7		41	25	10.9	15	3.3～10.4	
VPC30-15K[5]-4J		4								
VPC30-15K[5]-6J		6	80.1				11.7			
VPC30-20K[5]-3J		3	94.7		48	34	10.9	20	2.0～8.7	
VPC30-20K[5]-4J		4								
VPC30-20K[5]-6J		6	96.1				11.7			

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC40-6K5-3J	40	3	66.7	16	34	20	10.9	6	7.0～12.6	-M6
VPC40-6K5-4J9		4								
VPC40-6K5-6J9		6	68.1				11.7			
VPC40-10K5-3J		3	72.7		40		10.9	10	3.3～10.0	
VPC40-10K5-4J		4								
VPC40-10K5-6J		6	74.1				11.7			
VPC40-15K5-3J		3	82.7		45	25	10.9	15	3.3～10.4	
VPC40-15K5-4J		4								
VPC40-15K5-6J		6	84.1				11.7			
VPC40-20K5-3J		3	98.7		52	34	10.9	20	2.0～8.7	
VPC40-20K5-4J		4								
VPC40-20K5-6J		6	100.1				11.7			
VPC50-6K5-3J	50	3	67.7	17	35	20	10.9	6	7.0～12.6	
VPC50-6K5-4J9		4								
VPC50-6K5-6J9		6	69.1				11.7			
VPC50-10K5-3J		3	73.7		41		10.9	10	3.3～10.0	
VPC50-10K5-4J		4								
VPC50-10K5-6J		6	75.1				11.7			
VPC50-15K5-3J		3	83.7		46	25	10.9	15	3.3～10.4	
VPC50-15K5-4J		4								
VPC50-15K5-6J		6	85.1				11.7			
VPC50-20K5-3J		3	99.7		53	34	10.9	20	2.0～8.7	
VPC50-20K5-4J		4								
VPC50-20K5-6J		6	101.1				11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .9: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※ .Cup material NH and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m

VPOC203K5 6
VPOC303K5 6
VPOC403K5 6
VPOC503K5 6



RoHS compliant

Stroke (mm) 20,30,40,50

Unit : mm

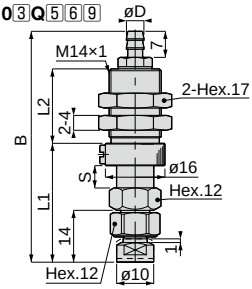
Model code	Cup dia. ød	Tubing OD øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Conn. code
VPOC20-20K5-3J	20	3	69.7	10	48	10.9	20	1.5～4.9	-M6
VPOC20-20K5-4J		4							
VPOC20-20K5-6J		6	71.1			11.7			
VPOC20-30K5-3J		3	82.7		61	10.9	30	1.1～4.8	
VPOC20-30K5-4J		4							
VPOC20-30K5-6J		6	84.1			11.7			
VPOC20-40K5-3J		3	95.7		74	10.9	40	1.0～4.5	
VPOC20-40K5-4J		4							
VPOC20-40K5-6J		6	97.1			11.7			
VPOC20-50K5-3J		3	108.7		87	10.9	50	0.9～4.5	
VPOC20-50K5-4J		4							
VPOC20-50K5-6J		6	110.1			11.7			
VPOC30-20K5-3J	30	3	71.7	12	50	10.9	20	1.5～4.9	
VPOC30-20K5-4J		4							
VPOC30-20K5-6J		6	73.1			11.7			
VPOC30-30K5-3J		3	84.7		63	10.9	30	1.1～4.8	
VPOC30-30K5-4J		4							
VPOC30-30K5-6J		6	86.1			11.7			
VPOC30-40K5-3J		3	97.7		76	10.9	40	1.0～4.5	
VPOC30-40K5-4J		4							
VPOC30-40K5-6J		6	99.1			11.7			
VPOC30-50K5-3J		3	110.7		89	10.9	50	0.9～4.5	
VPOC30-50K5-4J		4							
VPOC30-50K5-6J		6	112.1			11.7			
VPOC40-20K5-3J	40	3	75.7	16	54	10.9	20	1.5～4.9	
VPOC40-20K5-4J		4							
VPOC40-20K5-6J		6	77.1			11.7			
VPOC40-30K5-3J		3	88.7		67	10.9	30	1.1～4.8	
VPOC40-30K5-4J		4							
VPOC40-30K5-6J		6	90.1			11.7			
VPOC40-40K5-3J		3	101.7		80	10.9	40	1.0～4.5	
VPOC40-40K5-4J		4							
VPOC40-40K5-6J		6	103.1			11.7			
VPOC40-50K5-3J		3	114.7		93	10.9	50	0.9～4.5	
VPOC40-50K5-4J		4							
VPOC40-50K5-6J		6	116.1			11.7			
VPOC50-20K5-3J	50	3	76.7	17	55	10.9	20	1.5～4.9	
VPOC50-20K5-4J		4							
VPOC50-20K5-6J		6	78.1			11.7			
VPOC50-30K5-3J		3	89.7		68	10.9	30	1.1～4.8	
VPOC50-30K5-4J		4							
VPOC50-30K5-6J		6	91.1			11.7			
VPOC50-40K5-3J		3	102.7		81	10.9	40	1.0～4.5	
VPOC50-40K5-4J		4							
VPOC50-40K5-6J		6	104.1			11.7			
VPOC50-50K5-3J		3	115.7		94	10.9	50	0.9～4.5	
VPOC50-50K5-4J		4							
VPOC50-50K5-6J		6	117.1			11.7			

■ Vacuum cup + Spring plunger Dimensions

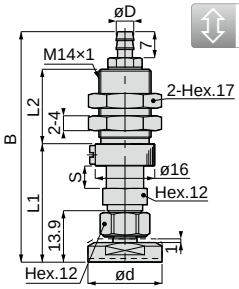
VPMC Spring mini plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC10[3]Q[5][6][9]



VPC20[3]Q[5][6][9]
VPC30[3]Q[5][6][9]



Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	Tube end C	Spring force (N)	Cup fitting config. code
VPMC10-4Q[5]-180J	—	1.8	44.9	8.4	1～1.3	-M4
VPMC10-4Q[5]-2J		2				
VPMC10-4Q[5]-3J		3	48.7	10.9		
VPMC10-4Q[5]-4J[9]		4				
VPMC20-4Q[5]-180J	20	1.8	52.8	8.4	1～1.3	-M6
VPMC20-4Q[5]-2J		2				
VPMC20-4Q[5]-3J		3	56.6	10.9		
VPMC20-4Q[5]-4J[9]		4				
VPMC30-4Q[5]-180J	30	1.8	52.8	8.4	1～1.3	
VPMC30-4Q[5]-2J		2				
VPMC30-4Q[5]-3J		3	56.6	10.9		
VPMC30-4Q[5]-4J[9]		4				

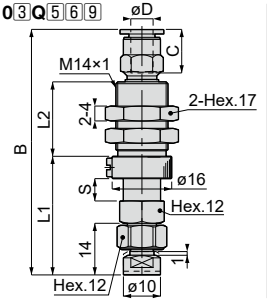
※.[5]:Replaced with Cup resin material code. Refer to the cup material table for details.
※.[9]:Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts).
-S3 spec. is available for model codes with [9] in the table above.
※.Tightening torque of panel mount nuts for plunger body is 4~6N·m.

Vacuum Cup Mark-free Series

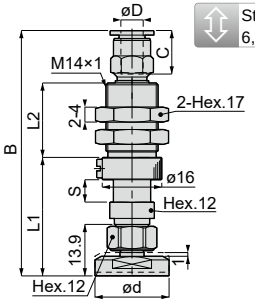
VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC10 3 Q 5 6 9



VPC20 3 Q 5 6 9
VPC30 3 Q 5 6 9



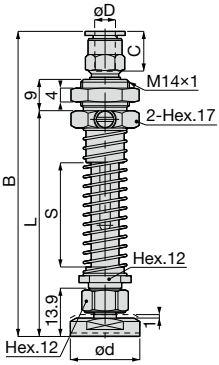
Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6Q5-3J	–	3	64.7	32	20	10.9	6	4.0 ~ 7.1	-M4
VPC10-6Q5-4J9		4							
VPC10-6Q5-6J9		6	66.1			11.7			
VPC10-10Q5-3J		3	69.2	36.5		10.9	10	2.0 ~ 5.2	
VPC10-10Q5-4J		4							
VPC10-10Q5-6J		6	70.6			11.7			
VPC10-15Q5-3J		3	79.2	41.5	25	10.9	15	2.0 ~ 5.9	
VPC10-15Q5-4J		4							
VPC10-15Q5-6J		6	80.6			11.7			
VPC10-20Q5-3J		3	95.2	48.5	34	10.9	20	1.1 ~ 4.8	
VPC10-20Q5-4J		4							
VPC10-20Q5-6J		6	96.6			11.7			
VPC20-6Q5-3J	20	3	64.6	31.9	20	10.9	6	7.0 ~ 12.6	-M6
VPC20-6Q5-4J9		4							
VPC20-6Q5-6J9		6	66			11.7			
VPC20-10Q5-3J		3	70.6	37.9		10.9	10	3.3 ~ 10.0	
VPC20-10Q5-4J		4							
VPC20-10Q5-6J		6	72			11.7			
VPC20-15Q5-3J		3	80.6	42.9	25	10.9	15	3.3 ~ 10.4	
VPC20-15Q5-4J		4							
VPC20-15Q5-6J		6	82			11.7			
VPC20-20Q5-3J		3	96.6	49.9	34	10.9	20	2.0 ~ 8.7	
VPC20-20Q5-4J		4							
VPC20-20Q5-6J		6	98			11.7			
VPC30-6Q5-3J	30	3	64.6	31.9	20	10.9	6	7.0 ~ 12.6	
VPC30-6Q5-4J9		4							
VPC30-6Q5-6J9		6	66			11.7			
VPC30-10Q5-3J		3	70.6	37.9		10.9	10	3.3 ~ 10.0	
VPC30-10Q5-4J		4							
VPC30-10Q5-6J		6	72			11.7			
VPC30-15Q5-3J		3	80.6	42.9	25	10.9	15	3.3 ~ 10.4	
VPC30-15Q5-4J		4							
VPC30-15Q5-6J		6	82			11.7			
VPC30-20Q5-3J		3	96.6	49.9	34	10.9	20	2.0 ~ 8.7	
VPC30-20Q5-4J		4							
VPC30-20Q5-6J		6	98			11.7			

VPOC Outer spring plunger / Top port / Push-in fitting

VPOC20[3]Q[5][6]
VPOC30[3]Q[5][6]



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC20-20Q[5]-3J	20	3	73.6	51.9	10.9	20	1.5～4.9	-M6
VPOC20-20Q[5]-4J		4						
VPOC20-20Q[5]-6J		6	75		11.7			
VPOC20-30Q[5]-3J		3	86.6	64.9	10.9	30	1.1～4.8	
VPOC20-30Q[5]-4J		4						
VPOC20-30Q[5]-6J		6	88		11.7			
VPOC20-40Q[5]-3J		3	99.6	77.9	10.9	40	1.0～4.5	
VPOC20-40Q[5]-4J		4						
VPOC20-40Q[5]-6J		6	101		11.7			
VPOC20-50Q[5]-3J		3	112.6	90.9	10.9	50	0.9～4.5	
VPOC20-50Q[5]-4J		4						
VPOC20-50Q[5]-6J		6	114		11.7			
VPOC30-20Q[5]-3J	30	3	73.6	51.9	10.9	20	1.5～4.9	
VPOC30-20Q[5]-4J		4						
VPOC30-20Q[5]-6J		6	75		11.7			
VPOC30-30Q[5]-3J		3	86.6	64.9	10.9	30	1.1～4.8	
VPOC30-30Q[5]-4J		4						
VPOC30-30Q[5]-6J		6	88		11.7			
VPOC30-40Q[5]-3J		3	99.6	77.9	10.9	40	1.0～4.5	
VPOC30-40Q[5]-4J		4						
VPOC30-40Q[5]-6J		6	101		11.7			
VPOC30-50Q[5]-3J		3	112.6	90.9	10.9	50	0.9～4.5	
VPOC30-50Q[5]-4J		4						
VPOC30-50Q[5]-6J		6	114		11.7			

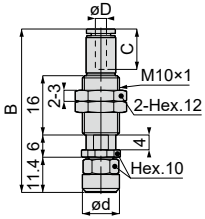
※ .[5]:Replaced with Cup resin material code. Refer to the cup material table for details.
※ .Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.

■ Vacuum cup + Spring plunger Dimensions

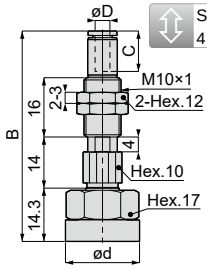
VPMC Spring mini plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPMC10-4F[5][6][9]
VPMC15-4F[5][6][9]



VPMC10-4F[5][6][9]
VPMC25-4F[5][6][9]
VPMC30-4F[5][6][9]



Stroke (mm)
4

Unit：mm

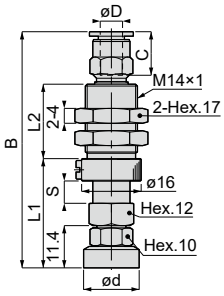
Model code	Cup O.D. ød	Tubing O.D. øD	B	Tube end C	Spring force (N)	Cup fitting config. code
VPMC10-4F[5]-180J	10	1.8	42.3	8.4	1.0～1.3	-M4
VPMC10-4F[5]-2J		2				
VPMC10-4F[5]-3J		3	46.1	10.9		
VPMC10-4F[5]-4J[9]		4				
VPMC15-4F[5]-180J	15	1.8	42.3	8.4	1.0～1.3	
VPMC15-4F[5]-2J		2				
VPMC15-4F[5]-3J		3	46.1	10.9		
VPMC15-4F[5]-4J[9]		4				
VPMC20-4F[5]-180J	20	1.8	53.2	8.4	1.0～1.3	-M6
VPMC20-4F[5]-2J		2				
VPMC20-4F[5]-3J		3	57	10.9		
VPMC20-4F[5]-4J[9]		4				
VPMC25-4F[5]-180J	25	1.8	53.2	8.4	1.0～1.3	
VPMC25-4F[5]-2J		2				
VPMC25-4F[5]-3J		3	57	10.9		
VPMC25-4F[5]-4J[9]		4				
VPMC30-4F[5]-180J	30	1.8	53.2	8.4	1.0～1.3	
VPMC30-4F[5]-2J		2				
VPMC30-4F[5]-3J		3	57	10.9		
VPMC30-4F[5]-4J[9]		4				

※.[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.
※.[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※.Cup material N and NE are not suitable for use under ozone environment.
※.Tightening torque of panel mount nuts on the plunger body is 4~6N·m.

VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC103**F**5**6**9
VPC153**F**5**6**9



Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6F5-3J	10	3	62.1	29.4	20	10.9	6	4.0～7.1	-M4
VPC10-6F5-4J9		4							
VPC10-6F5-6J9		6	63.5			11.7			
VPC10-10F5-3J		3	66.6	33.9		10.9	10	2.0～5.2	
VPC10-10F5-4J		4							
VPC10-10F5-6J		6	68			11.7			
VPC10-15F5-3J		3	76.6	38.9	25	10.9	15	2.0～5.9	
VPC10-15F5-4J		4							
VPC10-15F5-6J		6	78			11.7			
VPC10-20F5-3J		3	92.6	45.9	34	10.9	20	1.1～4.8	
VPC10-20F5-4J		4							
VPC10-20F5-6J		6	94			11.7			
VPC15-6F5-3J	15	3	62.1	29.4	20	10.9	6	4.0～7.1	
VPC15-6F5-4J9		4							
VPC15-6F5-6J9		6	63.5			11.7			
VPC15-10F5-3J		3	66.6	33.9		10.9	10	2.0～5.2	
VPC15-10F5-4J		4							
VPC15-10F5-6J		6	68			11.7			
VPC15-15F5-3J		3	76.6	38.9	25	10.9	15	2.0～5.9	
VPC15-15F5-4J		4							
VPC15-15F5-6J		6	78			11.7			
VPC15-20F5-3J		3	92.6	45.9	34	10.9	20	1.1～4.8	
VPC15-20F5-4J		4							
VPC15-20F5-6J		6	94			11.7			

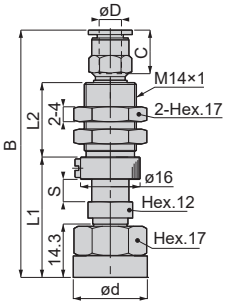
※ .5 : Replaced with Cup rubber material code. Refer to the cup material talbe for details.
※ .9: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※ . Cup material N and NE are not suitable for use under ozone environment.
※ . Tightening torque ofpanel mount nuts on the plunger body is as followings. Pad O.D. : ø10, ø15mm▶8 ~10N·m.
Pad O.D. : ø20~ø30mm ▶4.5~6N·m.

Spring plunger / Top port / Push-in fitting / Flat cup

Copper alloy free Selectable RoHS compliant

Stroke (mm) 6,10,15,20

VPC203**F**5 6 9
VPC253**F**5 6 9
VPC303**F**5 6 9



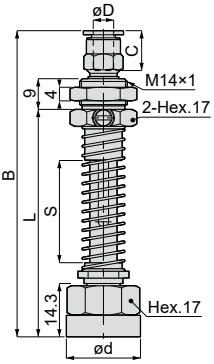
Unit : mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC20-6F5-3J	20	3	65	32.3	20	10.9	6	7.0～12.6	-M6
VPC20-6F5-4J9		4							
VPC20-6F5-6J9		6	66.4			11.7			
VPC20-10F5-3J		3	71	38.3		10.9	10	3.3～10.0	
VPC20-10F5-4J		4							
VPC20-10F5-6J		6	72.4			11.7			
VPC20-15F5-3J		3	81	43.3	25	10.9	15	3.3～10.4	
VPC20-15F5-4J		4							
VPC20-15F5-6J		6	82.4			11.7			
VPC20-20F5-3J		3	97	50.3	34	10.9	20	2.0～8.7	
VPC20-20F5-4J		4							
VPC20-20F5-6J		6	98.4			11.7			
VPC25-6F5-3J	25	3	65	32.3	20	10.9	6	7.0～12.6	
VPC25-6F5-4J9		4							
VPC25-6F5-6J9		6	66.4			11.7			
VPC25-10F5-3J		3	71	38.3		10.9	10	3.3～10.0	
VPC25-10F5-4J		4							
VPC25-10F5-6J		6	72.4			11.7			
VPC25-15F5-3J		3	81	43.3	25	10.9	15	3.3～10.4	
VPC25-15F5-4J		4							
VPC25-15F5-6J		6	82.4			11.7			
VPC25-20F5-3J		3	97	50.3	34	10.9	20	2.0～8.7	
VPC25-20F5-4J		4							
VPC25-20F5-6J		6	98.4			11.7			
VPC30-6F5-3J	30	3	65	32.3	20	10.9	6	7.0～12.6	
VPC30-6F5-4J9		4							
VPC30-6F5-6J9		6	66.4			11.7			
VPC30-10F5-3J		3	71	38.3		10.9	10	3.3～10.0	
VPC30-10F5-4J		4							
VPC30-10F5-6J		6	72.4			11.7			
VPC30-15F5-3J		3	81	43.3	25	10.9	15	3.3～10.4	
VPC30-15F5-4J		4							
VPC30-15F5-6J		6	82.4			11.7			
VPC30-20F5-3J		3	97	50.3	34	10.9	20	2.0～8.7	
VPC30-20F5-4J		4							
VPC30-20F5-6J		6	98.4			11.7			

Vacuum Cup Flat Series

VPOC Outer spring plunger / Top port / Push-in fitting

VPOC20[3]F[5][6]
VPOC25[3]F[5][6]
VPOC30[3]F[5][6]



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

※ .[5] : Replaced with Cup rubber material code. Refer to the cup material table for details.

※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

Unit：mm

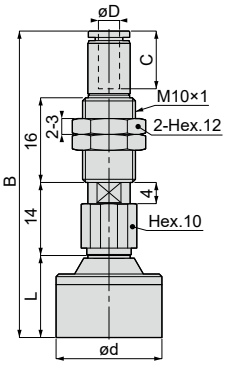
Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC20-20F[5]-3J	20	3	74	52.3	10.9	20	1.5～4.9	-M6
VPOC20-20F[5]-4J		4						
VPOC20-20F[5]-6J		6	75.4		11.7			
VPOC20-30F[5]-3J		3	87	65.3	10.9	30	1.1～4.8	
VPOC20-30F[5]-4J		4						
VPOC20-30F[5]-6J		6	88.4		11.7			
VPOC20-40F[5]-3J		3	100	78.3	10.9	40	1.0～4.5	
VPOC20-40F[5]-4J		4						
VPOC20-40F[5]-6J		6	101.4		11.7			
VPOC20-50F[5]-3J		3	113	91.3	10.9	50	0.9～4.5	
VPOC20-50F[5]-4J		4						
VPOC20-50F[5]-6J		6	114.4		11.7			
VPOC25-20F[5]-3J	25	3	74	52.3	10.9	20	1.5～4.9	
VPOC25-20F[5]-4J		4						
VPOC25-20F[5]-6J		6	75.4		11.7			
VPOC25-30F[5]-3J		3	87	65.3	10.9	30	1.1～4.8	
VPOC25-30F[5]-4J		4						
VPOC25-30F[5]-6J		6	88.4		11.7			
VPOC25-40F[5]-3J		3	100	78.3	10.9	40	1.0～4.5	
VPOC25-40F[5]-4J		4						
VPOC25-40F[5]-6J		6	101.4		11.7			
VPOC25-50F[5]-3J		3	113	91.3	10.9	50	0.9～4.5	
VPOC25-50F[5]-4J		4						
VPOC25-50F[5]-6J		6	114.4		11.7			
VPOC30-20F[5]-3J	30	3	74	52.3	10.9	20	1.5～4.9	
VPOC30-20F[5]-4J		4						
VPOC30-20F[5]-6J		6	75.4		11.7			
VPOC30-30F[5]-3J		3	87	65.3	10.9	30	1.1～4.8	
VPOC30-30F[5]-4J		4						
VPOC30-30F[5]-6J		6	88.4		11.7			
VPOC30-40F[5]-3J		3	100	78.3	10.9	40	1.0～4.5	
VPOC30-40F[5]-4J		4						
VPOC30-40F[5]-6J		6	101.4		11.7			
VPOC30-50F[5]-3J		3	113	91.3	10.9	50	0.9～4.5	
VPOC30-50F[5]-4J		4						
VPOC30-50F[5]-6J		6	114.4		11.7			

■ Vacuum cup + Spring plunger Dimensions

VPMC Spring mini plunger / Top port / Push-in fitting

RoHS Compliant | Copper alloy free available | CAD (2D&3D)

VPMC10-4S[5][6][9]
VPMC15-4S[5][6][9]
VPMC20-4S[5][6][9]
VPMC25-4S[5][6][9]
VPMC30-4S[5][6][9]
VPMC35-4S[5][6][9]
VPMC50-4S[5][6][9]



Stroke (mm)
4

Unit：mm

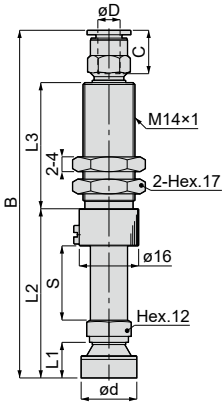
Model code	Cup O.D. ød	Tubing O.D. øD	B	L	Tube end C	Spring force (N)	Cup fitting config. code
VPMC10-4S[5]-180J	10	1.8	48.4	9.5	8.4	1～1.3	-M6
VPMC10-4S[5]-2J		2					
VPMC10-4S[5]-3J		3	52.2		10.9		
VPMC10-4S[5]-4J[9]		4					
VPMC15-4S[5]-180J	15	1.8	48.4	9.5	8.4	1～1.3	
VPMC15-4S[5]-2J		2					
VPMC15-4S[5]-3J		3	52.2		10.9		
VPMC15-4S[5]-4J[9]		4					
VPMC20-4S[5]-180J	20	1.8	54.4	15.5	8.4	1～1.3	
VPMC20-4S[5]-2J		2					
VPMC20-4S[5]-3J		3	58.2		10.9		
VPMC20-4S[5]-4J[9]		4					
VPMC25-4S[5]-180J	25	1.8	54.4	15.5	8.4	1～1.3	
VPMC25-4S[5]-2J		2					
VPMC25-4S[5]-3J		3	58.2		10.9		
VPMC25-4S[5]-4J[9]		4					
VPMC30-4S[5]-180J	30	1.8	54.4	15.5	8.4	1～1.3	
VPMC30-4S[5]-2J		2					
VPMC30-4S[5]-3J		3	58.2		10.9		
VPMC30-4S[5]-4J[9]		4					
VPMC35-4S[5]-180J	35	1.8	66.9	28	8.4	1～1.3	
VPMC35-4S[5]-2J		2					
VPMC35-4S[5]-3J		3	70.7		10.9		
VPMC35-4S[5]-4J[9]		4					
VPMC50-4S[5]-180J	50	1.8	66.9	28	8.4	1～1.3	
VPMC50-4S[5]-2J		2					
VPMC50-4S[5]-3J		3	70.7		10.9		
VPMC50-4S[5]-4J[9]		4					

※ .[5]: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Tightening torque of panel mount nuts on the plunger body is 4~6N·m.
※ .Visit our website for weight.

VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC10[3]S[5][6][9]
VPC15[3]S[5][6][9]
VPC20[3]S[5][6][9]
VPC25[3]S[5][6][9]
VPC30[3]S[5][6][9]
VPC35[3]S[5][6][9]



Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC10-6S[5]-3J	10	3	60.2	9.5	27.5	20	10.9	6	7.0～12.6	-M6
VPC10-6S[5]-4J[9]		4								
VPC10-6S[5]-6J[9]		6	61.6				11.7			
VPC10-10S[5]-3J		3	66.2		33.5		10.9	10	3.3～10.0	
VPC10-10S[5]-4J		4								
VPC10-10S[5]-6J		6	67.6				11.7			
VPC10-15S[5]-3J		3	76.2		38.5	25	10.9	15	3.3～10.4	
VPC10-15S[5]-4J		4								
VPC10-15S[5]-6J		6	77.6				11.7			
VPC10-20S[5]-3J		3	92.2		45.5	34	10.9	20	2.0～8.7	
VPC10-20S[5]-4J		4								
VPC10-20S[5]-6J		6	93.6				11.7			
VPC15-6S[5]-3J	15	3	60.2	9.5	27.5	20	10.9	6	7.0～12.6	
VPC15-6S[5]-4J[9]		4								
VPC15-6S[5]-6J[9]		6	61.6				11.7			
VPC15-10S[5]-3J		3	66.2		33.5		10.9	10	3.3～10.0	
VPC15-10S[5]-4J		4								
VPC15-10S[5]-6J		6	67.6				11.7			
VPC15-15S[5]-3J		3	76.2		38.5	25	10.9	15	3.3～10.4	
VPC15-15S[5]-4J		4								
VPC15-15S[5]-6J		6	77.6				11.7			
VPC15-20S[5]-3J		3	92.2		45.5	34	10.9	20	2.0～8.7	
VPC15-20S[5]-4J		4								
VPC15-20S[5]-6J		6	93.6				11.7			

※.[5]: Replaced with Cup rubber material code. Refer to the cup material table for details.
※.[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※. Tightening torque of panel mount nuts on the plunger body is ø10~ø35mm▶4 .6~6N·m.
※.Visit our website for weight.

Spring plunger / Top port / Push-in fitting

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC20-6S5-3J	20	3	66.2	15.5	33.5	20	10.9	6	7.0～12.6	-M6
VPC20-6S5-4J9		4								
VPC20-6S5-6J9		6	67.6				11.7			
VPC20-10S5-3J		3	72.2		39.5	20	10.9	10	3.3～10.0	
VPC20-10S5-4J		4								
VPC20-10S5-6J		6	73.6				11.7			
VPC20-15S5-3J		3	82.2		44.5	25	10.9	15	3.3～10.4	
VPC20-15S5-4J		4								
VPC20-15S5-6J		6	83.6				11.7			
VPC20-20S5-3J		3	98.2		51.5	34	10.9	20	2.0～8.7	
VPC20-20S5-4J		4								
VPC20-20S5-6J		6	99.6				11.7			
VPC25-6S5-3J	25	3	66.2	15.5	33.5	20	10.9	6	7.0～12.6	
VPC25-6S5-4J9		4								
VPC25-6S5-6J9		6	67.6				11.7			
VPC25-10S5-3J		3	72.2		39.5	20	10.9	10	3.3～10.0	
VPC25-10S5-4J		4								
VPC25-10S5-6J		6	73.6				11.7			
VPC25-15S5-3J		3	82.2		44.5	25	10.9	15	3.3～10.4	
VPC25-15S5-4J		4								
VPC25-15S5-6J		6	83.6				11.7			
VPC25-20S5-3J		3	98.2		51.5	34	10.9	20	2.0～8.7	
VPC25-20S5-4J		4								
VPC25-20S5-6J		6	99.6				11.7			
VPC30-6S5-3J	30	3	66.2	15.5	33.5	20	10.9	6	7.0～12.6	
VPC30-6S5-4J9		4								
VPC30-6S5-6J9		6	67.6				11.7			
VPC30-10S5-3J		3	72.2		39.5	20	10.9	10	3.3～10.0	
VPC30-10S5-4J		4								
VPC30-10S5-6J		6	73.6				11.7			
VPC30-15S5-3J		3	82.2		44.5	25	10.9	15	3.3～10.4	
VPC30-15S5-4J		4								
VPC30-15S5-6J		6	83.6				11.7			
VPC30-20S5-3J		3	98.2		51.5	34	10.9	20	2.0～8.7	
VPC30-20S5-4J		4								
VPC30-20S5-6J		6	99.6				11.7			
VPC35-6S5-3J	35	3	78.7	28	46	20	10.9	6	7.0～12.6	
VPC35-6S5-4J9		4								
VPC35-6S5-6J9		6	80.1				11.7			
VPC35-10S5-3J		3	84.7		52	20	10.9	10	3.3～10.0	
VPC35-10S5-4J		4								
VPC35-10S5-6J		6	86.1				11.7			
VPC35-15S5-3J		3	94.7		57	25	10.9	15	3.3～10.4	
VPC35-15S5-4J		4								
VPC35-15S5-6J		6	96.1				11.7			
VPC35-20S5-3J		3	110.7		64	34	10.9	20	2.0～8.7	
VPC35-20S5-4J		4								
VPC35-20S5-6J		6	112.1				11.7			

Spring plunger / Top port / Push-in fitting

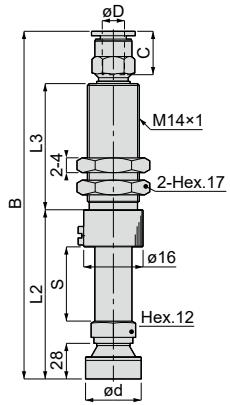
Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC20-6S5-3J	20	3	66.2	15.5	33.5	20	10.9	6	7.0～12.6	-M6
VPC20-6S5-4J9		4								
VPC20-6S5-6J9		6	67.6				11.7			
VPC20-10S5-3J		3	72.2		39.5	20	10.9	10	3.3～10.0	
VPC20-10S5-4J		4								
VPC20-10S5-6J		6	73.6				11.7			
VPC20-15S5-3J		3	82.2		44.5	25	10.9	15	3.3～10.4	
VPC20-15S5-4J		4								
VPC20-15S5-6J		6	83.6				11.7			
VPC20-20S5-3J		3	98.2		51.5	34	10.9	20	2.0～8.7	
VPC20-20S5-4J		4								
VPC20-20S5-6J		6	99.6				11.7			
VPC25-6S5-3J	25	3	66.2	15.5	33.5	20	10.9	6	7.0～12.6	
VPC25-6S5-4J9		4								
VPC25-6S5-6J9		6	67.6				11.7			
VPC25-10S5-3J		3	72.2		39.5	20	10.9	10	3.3～10.0	
VPC25-10S5-4J		4								
VPC25-10S5-6J		6	73.6				11.7			
VPC25-15S5-3J		3	82.2		44.5	25	10.9	15	3.3～10.4	
VPC25-15S5-4J		4								
VPC25-15S5-6J		6	83.6				11.7			
VPC25-20S5-3J		3	98.2		51.5	34	10.9	20	2.0～8.7	
VPC25-20S5-4J		4								
VPC25-20S5-6J		6	99.6				11.7			
VPC30-6S5-3J	30	3	66.2	15.5	33.5	20	10.9	6	7.0～12.6	
VPC30-6S5-4J9		4								
VPC30-6S5-6J9		6	67.6				11.7			
VPC30-10S5-3J		3	72.2		39.5	20	10.9	10	3.3～10.0	
VPC30-10S5-4J		4								
VPC30-10S5-6J		6	73.6				11.7			
VPC30-15S5-3J		3	82.2		44.5	25	10.9	15	3.3～10.4	
VPC30-15S5-4J		4								
VPC30-15S5-6J		6	83.6				11.7			
VPC30-20S5-3J		3	98.2		51.5	34	10.9	20	2.0～8.7	
VPC30-20S5-4J		4								
VPC30-20S5-6J		6	99.6				11.7			
VPC35-6S5-3J	35	3	78.7	28	46	20	10.9	6	7.0～12.6	
VPC35-6S5-4J9		4								
VPC35-6S5-6J9		6	80.1				11.7			
VPC35-10S5-3J		3	84.7		52	20	10.9	10	3.3～10.0	
VPC35-10S5-4J		4								
VPC35-10S5-6J		6	86.1				11.7			
VPC35-15S5-3J		3	94.7		57	25	10.9	15	3.3～10.4	
VPC35-15S5-4J		4								
VPC35-15S5-6J		6	96.1				11.7			
VPC35-20S5-3J		3	110.7		64	34	10.9	20	2.0～8.7	
VPC35-20S5-4J		4								
VPC35-20S5-6J		6	112.1				11.7			

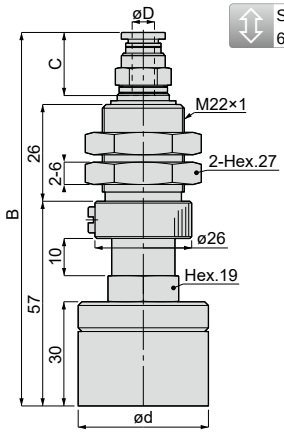
Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC50[3]S[5][6][9]



VPC70-10S[5][6][9]
VPC100-10S[5][6][9]



Stroke (mm)
6,10,15,20

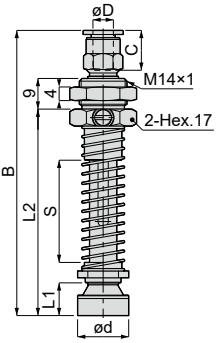
Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L2	L3	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC50-6S[5]-3J	50	3	78.7	46	20	10.9	6	7.0～12.6	-M6
VPC50-6S[5]-4J[9]		4							
VPC50-6S[5]-6J[9]		6	80.1			11.7			
VPC50-10S[5]-3J		3	84.7	52	20	10.9	10	3.3～10.0	
VPC50-10S[5]-4J		4							
VPC50-10S[5]-6J		6	86.1			11.7			
VPC50-15S[5]-3J		3	94.7	57	25	10.9	15	3.3～10.4	
VPC50-15S[5]-4J		4							
VPC50-15S[5]-6J		6	96.1			11.7			
VPC50-20S[5]-3J		3	110.7	64	34	10.9	20	2.0～8.7	
VPC50-20S[5]-4J		4							
VPC50-20S[5]-6J		6	112.1			11.7			
VPC70-10S[5]-4J	70	4	96.7	—	—	10.9	—	10.1～15.8	-M10
VPC70-10S[5]-6J		6	99			11.7			
VPC70-10S[5]-8J		8	107.6			18.2			
VPC100-10S[5]-4J	100	4	96.7	—	—	10.9	—	10.1～15.8	
VPC100-10S[5]-6J		6	99			11.7			
VPC100-10S[5]-8J		8	107.6			18.2			

※.[5]: Replaced with Cup rubber material code. Refer to the cup material table for details.
※.[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※.Tightening torque of panel mount nuts on the plunger body is as below.
▪Cup dia.：ø50mm▶4.6~6N·m. ▪Cup dia.：ø70, ø100mm▶16~20N·m
※.Visit our website for weight.

VPOC Outer spring plunger / Top port / Push-in fitting

VPOC10[3]S[5][6]
VPOC15[3]S[5][6]
VPOC20[3]S[5][6]
VPOC25[3]S[5][6]
VPOC30[3]S[5][6]
VPOC35[3]S[5][6]
VPOC50[3]S[5][6]



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC10-20S[5]-3J	10	3	69.2	9.5	47.5	10.9	20	1.5～4.9	-M6
VPOC10-20S[5]-4J		4							
VPOC10-20S[5]-6J		6	70.6			11.7			
VPOC10-30S[5]-3J		3	82.2		60.5	10.9	30	1.1～4.8	
VPOC10-30S[5]-4J		4							
VPOC10-30S[5]-6J		6	83.6			11.7			
VPOC10-40S[5]-3J		3	95.2		73.5	10.9	40	1.0～4.5	
VPOC10-40S[5]-4J		4							
VPOC10-40S[5]-6J		6	96.6			11.7			
VPOC10-50S[5]-3J		3	108.2		86.5	10.9	50	0.9～4.5	
VPOC10-50S[5]-4J		4							
VPOC10-50S[5]-6J		6	109.6			11.7			
VPOC15-20S[5]-3J	15	3	69.2	9.5	47.5	10.9	20	1.5～4.9	
VPOC15-20S[5]-4J		4							
VPOC15-20S[5]-6J		6	70.6			11.7			
VPOC15-30S[5]-3J		3	82.2		60.5	10.9	30	1.1～4.8	
VPOC15-30S[5]-4J		4							
VPOC15-30S[5]-6J		6	83.6			11.7			
VPOC15-40S[5]-3J		3	95.2		73.5	10.9	40	1.0～4.5	
VPOC15-40S[5]-4J		4							
VPOC15-40S[5]-6J		6	96.6			11.7			
VPOC15-50S[5]-3J		3	108.2		86.5	10.9	50	0.9～4.5	
VPOC15-50S[5]-4J		4							
VPOC15-50S[5]-6J		6	109.6			11.7			
VPOC20-20S[5]-3J	20	3	75.2	15.5	53.5	10.9	20	1.5～4.9	
VPOC20-20S[5]-4J		4							
VPOC20-20S[5]-6J		6	76.6			11.7			
VPOC20-30S[5]-3J		3	88.2		66.5	10.9	30	1.1～4.8	
VPOC20-30S[5]-4J		4							
VPOC20-30S[5]-6J		6	89.6			11.7			
VPOC20-40S[5]-3J		3	101.2		79.5	10.9	40	1.0～4.5	
VPOC20-40S[5]-4J		4							
VPOC20-40S[5]-6J		6	102.6			11.7			
VPOC20-50S[5]-3J		3	114.2		92.5	10.9	50	0.9～4.5	
VPOC20-50S[5]-4J		4							
VPOC20-50S[5]-6J		6	115.6			11.7			

Unit：mm

Model code	Cup O.D. ød	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC25-20S5-3J	25	3	75.2	15.5	53.5	10.9	20	1.5～4.9	-M6
VPOC25-20S5-4J		4							
VPOC25-20S5-6J		6	76.6			11.7			
VPOC25-30S5-3J		3	88.2		66.5	10.9	30	1.1～4.8	
VPOC25-30S5-4J		4							
VPOC25-30S5-6J		6	89.6			11.7			
VPOC25-40S5-3J		3	101.2		79.5	10.9	40	1.0～4.5	
VPOC25-40S5-4J		4							
VPOC25-40S5-6J		6	102.6			11.7			
VPOC25-50S5-3J		3	114.2		92.5	10.9	50	0.9～4.5	
VPOC25-50S5-4J		4							
VPOC25-50S5-6J		6	115.6			11.7			
VPOC30-20S5-3J	30	3	75.2	15.5	53.5	10.9	20	1.5～4.9	
VPOC30-20S5-4J		4							
VPOC30-20S5-6J		6	76.6			11.7			
VPOC30-30S5-3J		3	88.2		66.5	10.9	30	1.1～4.8	
VPOC30-30S5-4J		4							
VPOC30-30S5-6J		6	89.6			11.7			
VPOC30-40S5-3J		3	101.2		79.5	10.9	40	1.0～4.5	
VPOC30-40S5-4J		4							
VPOC30-40S5-6J		6	102.6			11.7			
VPOC30-50S5-3J		3	114.2		92.5	10.9	50	0.9～4.5	
VPOC30-50S5-4J		4							
VPOC30-50S5-6J		6	115.6			11.7			
VPOC35-20S5-3J	35	3	87.7	28	66	10.9	20	1.5～4.9	
VPOC35-20S5-4J		4							
VPOC35-20S5-6J		6	89.1			11.7			
VPOC35-30S5-3J		3	100.7		79	10.9	30	1.1～4.8	
VPOC35-30S5-4J		4							
VPOC35-30S5-6J		6	102.1			11.7			
VPOC35-40S5-3J		3	113.7		92	10.9	40	1.0～4.5	
VPOC35-40S5-4J		4							
VPOC35-40S5-6J		6	115.1			11.7			
VPOC35-50S5-3J		3	126.7		105	10.9	50	0.9～4.5	
VPOC35-50S5-4J		4							
VPOC35-50S5-6J		6	128.1			11.7			
VPOC50-20S5-3J	50	3	87.7	28	66	10.9	20	1.5～4.9	
VPOC50-20S5-4J		4							
VPOC50-20S5-6J		6	89.1			11.7			
VPOC50-30S5-3J		3	100.7		79	10.9	30	1.1～4.8	
VPOC50-30S5-4J		4							
VPOC50-30S5-6J		6	102.1			11.7			
VPOC50-40S5-3J		3	113.7		92	10.9	40	1.0～4.5	
VPOC50-40S5-4J		4							
VPOC50-40S5-6J		6	115.1			11.7			
VPOC50-50S5-3J		3	126.7		105	10.9	50	0.9～4.5	
VPOC50-50S5-4J		4							
VPOC50-50S5-6J		6	128.1			11.7			

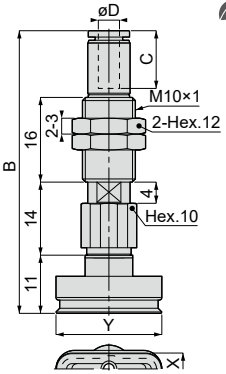
※.5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※.Tightening torque of panel mount nuts on the plunger body is 4.5~6N·m.
※.Visit our website for weight.

VPMC Spring mini plunger / Top port / Push-in fitting

VPMC2-4E569

RoHS Compliant Copper alloy free available CAD (2D&3D)

Stroke (mm)
4



Unit：mm

Model code	Cup size		Tubing O.D.	B	Tube end	Spring force	Cup fitting
	X	Y	øD		C	(N)	config. code
VPMC2×4-4E5-180J	2	4	1.8	49.9	8.4	1～1.3	-M6
VPMC2×4-4E5-2J			2				
VPMC2×4-4E5-3J			3	53.7	10.9		
VPMC2×4-4E5-4J9			4				
VPMC3.5×7-4E5-180J	3.5	7	1.8	49.9	8.4	1～1.3	
VPMC3.5×7-4E5-2J			2				
VPMC3.5×7-4E5-3J			3	53.7	10.9		
VPMC3.5×7-4E5-4J9			4				
VPMC4×10-4E5-180J	4	10	1.8	49.9	8.4	1～1.3	
VPMC4×10-4E5-2J			2				
VPMC4×10-4E5-3J			3	53.7	10.9		
VPMC4×10-4E5-4J9			4				
VPMC4×20-4E5-180J		20	1.8	49.9	8.4		
VPMC4×20-4E5-2J			2				
VPMC4×20-4E5-3J			3	53.7	10.9		
VPMC4×20-4E5-4J9			4				
VPMC4×30-4E5-180J		30	1.8	49.9	8.4		
VPMC4×30-4E5-2J			2				
VPMC4×30-4E5-3J			3	53.7	10.9		
VPMC4×30-4E5-4J9			4				
VPMC5×10-4E5-180J	5	10	1.8	49.9	8.4	1～1.3	
VPMC5×10-4E5-2J			2				
VPMC5×10-4E5-3J			3	53.7	10.9		
VPMC5×10-4E5-4J9			4				
VPMC5×20-4E5-180J		20	1.8	49.9	8.4		
VPMC5×20-4E5-2J			2				
VPMC5×20-4E5-3J			3	53.7	10.9		
VPMC5×20-4E5-4J9			4				
VPMC5×30-4E5-180J		30	1.8	49.9	8.4		
VPMC5×30-4E5-2J			2				
VPMC5×30-4E5-3J			3	53.7	10.9		
VPMC5×30-4E5-4J9			4				

Spring mini plunger / Top port / Push-in fitting

Unit：mm

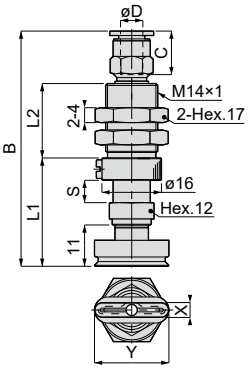
Model code	Cup size		Tube O.D.	B	Tube end	Spring force	Cup fitting
	X	Y	øD		C	(N)	config. code
VPMC6×10-4E5-180J	6	10	1.8	49.9	8.4	1～1.3	-M6
VPMC6×10-4E5-2J			2				
VPMC6×10-4E5-3J			3	53.7	10.9		
VPMC6×10-4E5-4J9			4				
VPMC6×20-4E5-180J		20	1.8	49.9	8.4		
VPMC6×20-4E5-2J			2				
VPMC6×20-4E5-3J			3	53.7	10.9		
VPMC6×20-4E5-4J9			4				
VPMC6×30-4E5-180J		30	1.8	49.9	8.4		
VPMC6×30-4E5-2J			2				
VPMC6×30-4E5-3J			3	53.7	10.9		
VPMC6×30-4E5-4J9			4				
VPMC8×20-4E5-180J	8	20	1.8	49.9	8.4	1～1.3	
VPMC8×20-4E5-2J			2				
VPMC8×20-4E5-3J			3	53.7	10.9		
VPMC8×20-4E5-4J9			4				
VPMC8×30-4E5-180J		30	1.8	49.9	8.4		
VPMC8×30-4E5-2J			2				
VPMC8×30-4E5-3J			3	53.7	10.9		
VPMC8×30-4E5-4J9			4				

※ .5: Replaced with Cup rubber material code. Refer to cup material table for details.
※ .9: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts on the plunger body is 4~6N·m.

VPC Spring plunger / Top port / Push-in fitting

RoHS Compliant Copper alloy free available CAD (2D&3D)

VPC2×4[3]E[5][6][9]
VPC3.5×7[3]E[5][6][9]



Stroke (mm)
6,10,15,20

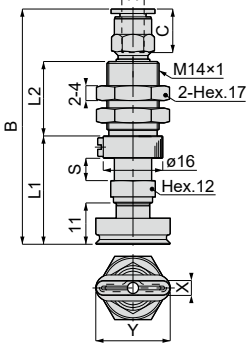
Unit：mm

Model code	Cup size X	Cup size Y	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC2×4-6E[5]-3J	2	4	3	61.7	29	20	10.9	6	7.0～12.6	-M6
VPC2×4-6E[5]-4J[9]			4							
VPC2×4-6E[5]-6J[9]			6	63.1			11.7			
VPC2×4-10E[5]-3J			3	67.7	35		10.9	10	3.3～10.0	
VPC2×4-10E[5]-4J			4							
VPC2×4-10E[5]-6J			6	69.1			11.7			
VPC2×4-15E[5]-3J			3	77.7	40	25	10.9	15	3.3～10.4	
VPC2×4-15E[5]-4J			4							
VPC2×4-15E[5]-6J			6	79.1			11.7			
VPC2×4-20E[5]-3J			3	93.7	47	34	10.9	20	2.0～8.7	
VPC2×4-20E[5]-4J			4							
VPC2×4-20E[5]-6J			6	95.1			11.7			
VPC3.5×7-6E[5]-3J	3.5	7	3	61.7	29	20	10.9	6	7.0～12.6	
VPC3.5×7-6E[5]-4J[9]			4							
VPC3.5×7-6E[5]-6J[9]			6	63.1			11.7			
VPC3.5×7-10E[5]-3J			3	67.7	35		10.9	10	3.3～10.0	
VPC3.5×7-10E[5]-4J			4							
VPC3.5×7-10E[5]-6J			6	69.1			11.7			
VPC3.5×7-15E[5]-3J			3	77.7	40	25	10.9	15	3.3～10.4	
VPC3.5×7-15E[5]-4J			4							
VPC3.5×7-15E[5]-6J			6	79.1			11.7			
VPC3.5×7-20E[5]-3J			3	93.7	47	34	10.9	20	2.0～8.7	
VPC3.5×7-20E[5]-4J			4							
VPC3.5×7-20E[5]-6J			6	95.1			11.7			

※ .[5]: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .[9]: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with [9] in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

Spring plunger / Top port / Push-in fitting

VPC4×10[3]E[5][6][9]
VPC4×20[3]E[5][6][9]
VPC4×30[3]E[5][6][9]
VPC5×10[3]E[5][6][9]
VPC5×20[3]E[5][6][9]
VPC5×30[3]E[5][6][9]



RoHS Compliant Copper alloy free available CAD (2D&3D)

Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup size		Tubing O.D.	B	L1	L2	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD				C	S	(N)	config. code
VPC4×10-6E[5]-3J	4	10	3	61.7	29	20	10.9	6	7.0～12.6	-M6
VPC4×10-6E[5]-4J[9]			4							
VPC4×10-6E[5]-6J[9]			6	63.1			11.7			
VPC4×20-6E[5]-3J		20	3	61.7			10.9			
VPC4×20-6E[5]-4J[9]			4							
VPC4×20-6E[5]-6J[9]			6	63.1			11.7			
VPC4×30-6E[5]-3J		30	3	61.7			10.9			
VPC4×30-6E[5]-4J[9]			4							
VPC4×30-6E[5]-6J[9]			6	63.1			11.7			
VPC4×10-10E[5]-3J		10	3	67.7	35		10.9	10	3.3～10.0	
VPC4×10-10E[5]-4J			4							
VPC4×10-10E[5]-6J			6	69.1			11.7			
VPC4×20-10E[5]-3J		20	3	67.7			10.9			
VPC4×20-10E[5]-4J			4							
VPC4×20-10E[5]-6J			6	69.1			11.7			
VPC4×30-10E[5]-3J		30	3	67.7			10.9			
VPC4×30-10E[5]-4J			4							
VPC4×30-10E[5]-6J			6	69.1			11.7			
VPC4×10-15E[5]-3J		10	3	77.7	40	25	10.9	15	3.3～10.4	
VPC4×10-15E[5]-4J			4							
VPC4×10-15E[5]-6J			6	79.1			11.7			
VPC4×20-15E[5]-3J		20	3	77.7			10.9			
VPC4×20-15E[5]-4J			4							
VPC4×20-15E[5]-6J			6	79.1			11.7			
VPC4×30-15E[5]-3J		30	3	77.7			10.9			
VPC4×30-15E[5]-4J			4							
VPC4×30-15E[5]-6J			6	79.1			11.7			
VPC4×10-20E[5]-3J		10	3	93.7	47	34	10.9	20	2.0～8.7	
VPC4×10-20E[5]-4J			4							
VPC4×10-20E[5]-6J			6	95.1			11.7			
VPC4×20-20E[5]-3J		20	3	93.7			10.9			
VPC4×20-20E[5]-4J			4							
VPC4×20-20E[5]-6J			6	95.1			11.7			
VPC4×30-20E[5]-3J		30	3	93.7			10.9			
VPC4×30-20E[5]-4J			4							
VPC4×30-20E[5]-6J			6	95.1			11.7			

Spring plunger / Top port / Push-in fitting

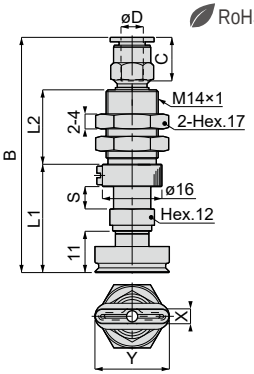
Unit：mm

Model code	Cup size X	Cup size Y	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC5×10-6E5-3J	5	10	3	61.7	29	20	10.9	6	7.0～12.6	-M6
VPC5×10-6E5-4J9			4							
VPC5×10-6E5-6J9			6	63.1			11.7			
VPC5×20-6E5-3J		20	3	61.7			10.9			
VPC5×20-6E5-4J9			4							
VPC5×20-6E5-6J9			6	63.1			11.7			
VPC5×30-6E5-3J		30	3	61.7			10.9			
VPC5×30-6E5-4J9			4							
VPC5×30-6E5-6J9			6	63.1			11.7			
VPC5×10-10E5-3J		10	3	67.7	35		10.9	10	3.3～10.0	
VPC5×10-10E5-4J			4							
VPC5×10-10E5-6J			6	69.1			11.7			
VPC5×20-10E5-3J		20	3	67.7			10.9			
VPC5×20-10E5-4J			4							
VPC5×20-10E5-6J			6	69.1			11.7			
VPC5×30-10E5-4J		30	3	67.7			10.9			
VPC5×30-10E5-6J			4							
VPC5×30-10E5-6J			6	69.1			11.7			
VPC5×10-15E5-3J		10	3	77.7	40	25	10.9	15	3.3～10.4	
VPC5×10-15E5-4J			4							
VPC5×10-15E5-6J			6	79.1			11.7			
VPC5×20-15E5-3J		20	3	77.7			10.9			
VPC5×20-15E5-4J			4							
VPC5×20-15E5-6J			6	79.1			11.7			
VPC5×30-15E5-3J		30	3	77.7			10.9			
VPC5×30-15E5-4J			4							
VPC5×30-15E5-6J			6	79.1			11.7			
VPC5×10-20E5-3J		10	3	93.7	47	34	10.9	20	2.0～8.7	
VPC5×10-20E5-4J			4							
VPC5×10-20E5-6J			6	95.1			11.7			
VPC5×20-20E5-3J		20	3	93.7			10.9			
VPC5×20-20E5-4J			4							
VPC5×20-20E5-6J			6	95.1			11.7			
VPC5×30-20E5-3J		30	3	93.7			10.9			
VPC5×30-20E5-4J			4							
VPC5×30-20E5-6J			6	95.1			11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .9: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

Spring plunger / Top port / Push-in fitting

VPC6×10[3]E[5][6][9]
VPC6×20[3]E[5][6][9]
VPC6×30[3]E[5][6][9]
VPC8×20[3]E[5][6][9]
VPC8×30[3]E[5][6][9]



RoHS Compliant Copper alloy free available CAD (2D&3D)

Stroke (mm)
6,10,15,20

Unit：mm

Model code	Cup size X	Cup size Y	Tubing O.D. øD	B	L1	L2	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPC6×10-6E[5]-3J	6	10	3	61.7	29	20	10.9	6	7.0～12.6	-M6
VPC6×10-6E[5]-4J[9]			4							
VPC6×10-6E[5]-6J[9]			6	63.1			11.7			
VPC6×20-6E[5]-3J		20	3	61.7			10.9			
VPC6×20-6E[5]-4J[9]			4							
VPC6×20-6E[5]-6J[9]			6	63.1			11.7			
VPC6×30-6E[5]-3J		30	3	61.7			10.9			
VPC6×30-6E[5]-4J[9]			4							
VPC6×30-6E[5]-6J[9]			6	63.1			11.7			
VPC6×10-10E[5]-3J		10	3	67.7	35		10.9	10	3.3～10.0	
VPC6×10-10E[5]-4J			4							
VPC6×10-10E[5]-6J			6	69.1			11.7			
VPC6×20-10E[5]-3J		20	3	67.7			10.9			
VPC6×20-10E[5]-4J			4							
VPC6×20-10E[5]-6J			6	69.1			11.7			
VPC6×30-10E[5]-3J		30	3	67.7			10.9			
VPC6×30-10E[5]-4J			4							
VPC6×30-10E[5]-6J			6	69.1			11.7			
VPC6×10-15E[5]-3J		10	3	77.7	40	25	10.9	15	3.3～10.4	
VPC6×10-15E[5]-4J			4							
VPC6×10-15E[5]-6J			6	79.1			11.7			
VPC6×20-15E[5]-3J		20	3	77.7			10.9			
VPC6×20-15E[5]-4J			4							
VPC6×20-15E[5]-6J			6	79.1			11.7			
VPC6×30-15E[5]-3J		30	3	77.7			10.9			
VPC6×30-15E[5]-4J			4							
VPC6×30-15E[5]-6J			6	79.1			11.7			
VPC6×10-20E[5]-3J		10	3	93.7	47	34	10.9	20	2.0～8.7	
VPC6×10-20E[5]-4J			4							
VPC6×10-20E[5]-6J			6	95.1			11.7			
VPC6×20-20E[5]-3J		20	3	93.7			10.9			
VPC6×20-20E[5]-4J			4							
VPC6×20-20E[5]-6J			6	95.1			11.7			
VPC6×30-20E[5]-3J		30	3	93.7			10.9			
VPC6×30-20E[5]-4J			4							
VPC6×30-20E[5]-6J			6	95.1			11.7			

Vacuum Pad Oval Series

Spring plunger / Top port / Push-in fitting

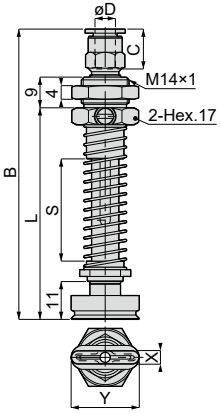
Unit：mm

Model code	Cup size		Tubing O.D.	B	L1	L2	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD				C	S	(N)	config. code
VPC8×20-6E5-3J	8	20	3	61.7	29	20	10.9	6	7.0～12.6	-M6
VPC8×20-6E5-4J9			4							
VPC8×20-6E5-6J9			6	63.1			11.7			
VPC8×30-6E5-3J		30	3	61.7			10.9			
VPC8×30-6E5-4J9			4							
VPC8×30-6E5-6J9			6	63.1			11.7			
VPC8×20-10E5-3J		20	3	67.7	35		10.9	10	3.3～10.0	
VPC8×20-10E5-4J			4							
VPC8×20-10E5-6J			6	69.1			11.7			
VPC8×30-10E5-3J		30	3	67.7			10.9			
VPC8×30-10E5-4J			4							
VPC8×30-10E5-6J			6	69.1			11.7			
VPC8×20-15E5-3J		20	3	77.7	40	25	10.9	15	3.3～10.4	
VPC8×20-15E5-4J			4							
VPC8×20-15E5-6J			6	79.1			11.7			
VPC8×30-15E5-3J		30	3	77.7			10.9			
VPC8×30-15E5-4J			4							
VPC8×30-15E5-6J			6	79.1			11.7			
VPC8×20-20E5-3J		20	3	93.7	47	34	10.9	20	2.0～8.7	
VPC8×20-20E5-4J			4							
VPC8×20-20E5-6J			6	95.1			11.7			
VPC8×30-20E5-3J		30	3	93.7			10.9			
VPC8×30-20E5-4J			4							
VPC8×30-20E5-6J			6	95.1			11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material talbe for details.
※ .9: Replaced with "-S3" for -S3 spec. (Copper alloy free material for metal parts and FKM or HNBR for sealing parts). -S3 spec. is available for model codes with 9 in the table above.
※ .Cup material N and NE are not suitable for use under ozone environment.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

VPOC Outer spring plunger / Top port / Push-in fitting

VPOC2×4[3]E[5][6]
VPOC3.5×7[3]E[5][6]
VPOC4×10[3]E[5][6]
VPOC4×20[3]E[5][6]
VPOC4×30[3]E[5][6]
VPOC5×10[3]E[5][6]



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

Unit：mm

Model code	Cup size X	Cup size Y	Tubing O.D. øD	B	L	Tube end C	Stroke S	Spring force (N)	Cup fitting config. code
VPOC2×4-20E[5]-3J	2	4	3	70.7	49	10.9	20	1.5～4.9	-M6
VPOC2×4-20E[5]-4J			4						
VPOC2×4-20E[5]-6J			6	72.1		11.7			
VPOC2×4-30E[5]-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC2×4-30E[5]-4J			4						
VPOC2×4-30E[5]-6J			6	85.1		11.7			
VPOC2×4-40E[5]-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC2×4-40E[5]-4J			4						
VPOC2×4-40E[5]-6J			6	98.1		11.7			
VPOC2×4-50E[5]-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC2×4-50E[5]-4J			4						
VPOC2×4-50E[5]-6J			6	111.1		11.7			
VPOC3.5×7-20E[5]-3J	3.5	7	3	70.7	49	10.9	20	1.5～4.9	
VPOC3.5×7-20E[5]-4J			4						
VPOC3.5×7-20E[5]-6J			6	72.1		11.7			
VPOC3.5×7-30E[5]-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC3.5×7-30E[5]-4J			4						
VPOC3.5×7-30E[5]-6J			6	85.1		11.7			
VPOC3.5×7-40E[5]-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC3.5×7-40E[5]-4J			4						
VPOC3.5×7-40E[5]-6J			6	98.1		11.7			
VPOC3.5×7-50E[5]-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC3.5×7-50E[5]-4J			4						
VPOC3.5×7-50E[5]-6J			6	111.1		11.7			

Outer spring plunger / Top port / Push-in fitting

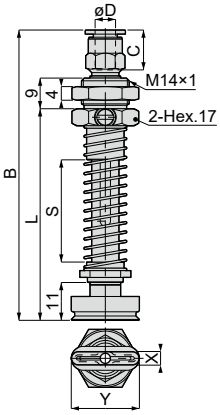
Unit：mm

Model code	Cup size		Tubing O.D.	B	L	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD			C	S	(N)	config. code
VPOC4×10-20E5-3J	4	10	3	70.7	49	10.9	20	1.5～4.9	-M6
VPOC4×10-20E5-4J			4						
VPOC4×10-20E5-6J			6	72.1		11.7			
VPOC4×10-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC4×10-30E5-4J			4						
VPOC4×10-30E5-6J			6	85.1		11.7			
VPOC4×10-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC4×10-40E5-4J			4						
VPOC4×10-40E5-6J			6	98.1		11.7			
VPOC4×10-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC4×10-50E5-4J			4						
VPOC4×10-50E5-6J			6	111.1		11.7			
VPOC4×20-20E5-3J		20	3	70.7	49	10.9	20	1.5～4.9	
VPOC4×20-20E5-4J			4						
VPOC4×20-20E5-6J			6	72.1		11.7			
VPOC4×20-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC4×20-30E5-4J			4						
VPOC4×20-30E5-6J			6	85.1		11.7			
VPOC4×20-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC4×20-40E5-4J			4						
VPOC4×20-40E5-6J			6	98.1		11.7			
VPOC4×20-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC4×20-50E5-4J			4						
VPOC4×20-50E5-6J			6	111.1		11.7			
VPOC4×30-20E5-3J		30	3	70.7	49	10.9	20	1.5～4.9	
VPOC4×30-20E5-4J			4						
VPOC4×30-20E5-6J			6	72.1		11.7			
VPOC4×30-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC4×30-30E5-4J			4						
VPOC4×30-30E5-6J			6	85.1		11.7			
VPOC4×30-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC4×30-40E5-4J			4						
VPOC4×30-40E5-6J			6	98.1		11.7			
VPOC4×30-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC4×30-50E5-4J			4						
VPOC4×30-50E5-6J			6	111.1		11.7			
VPOC5×10-20E5-3J	5	10	3	70.7	49	10.9	20	1.5～4.9	
VPOC5×10-20E5-4J			4						
VPOC5×10-20E5-6J			6	72.1		11.7			
VPOC5×10-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC5×10-30E5-4J			4						
VPOC5×10-30E5-6J			6	85.1		11.7			
VPOC5×10-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC5×10-40E5-4J			4						
VPOC5×10-40E5-6J			6	98.1		11.7			
VPOC5×10-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC5×10-50E5-4J			4						
VPOC5×10-50E5-6J			6	111.1		11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

Outer spring plunger / Top port / Push-in fitting

VPOC5×20□E□□
VPOC5×30□E□□
VPOC6×10□E□□
VPOC6×20□E□□
VPOC6×30□E□□
VPOC8×20□E□□



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

Unit：mm

Model code	Cup size		Tubing O.D.	B	L	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD			C	S	(N)	config. code
VPOC5×20-20E□-3J	5	20	3	70.7	49	10.9	20	1.5～4.9	-M6
VPOC5×20-20E□-4J			4						
VPOC5×20-20E□-6J			6	72.1		11.7			
VPOC5×20-30E□-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC5×20-30E□-4J			4						
VPOC5×20-30E□-6J			6	85.1		11.7			
VPOC5×20-40E□-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC5×20-40E□-4J			4						
VPOC5×20-40E□-6J			6	98.1		11.7			
VPOC5×20-50E□-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC5×20-50E□-4J			4						
VPOC5×20-50E□-6J			6	111.1		11.7			
VPOC5×30-20E□-3J		30	3	70.7	49	10.9	20	1.5～4.9	
VPOC5×30-20E□-4J			4						
VPOC5×30-20E□-6J			6	72.1		11.7			
VPOC5×30-30E□-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC5×30-30E□-4J			4						
VPOC5×30-30E□-6J			6	85.1		11.7			
VPOC5×30-40E□-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC5×30-40E□-4J			4						
VPOC5×30-40E□-6J			6	98.1		11.7			
VPOC5×30-50E□-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC5×30-50E□-4J			4						
VPOC5×30-50E□-6J			6	111.1		11.7			

Vacuum Pad Oval Series

Outer spring plunger / Top port / Push-in fitting

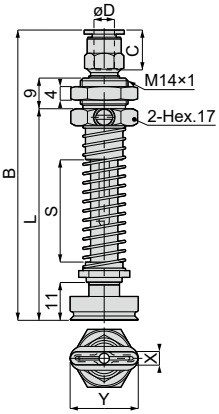
Unit：mm

Model code	Cup size		Tubing O.D.	B	L	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD			C	S	(N)	config. code
VPOC6×10-20E5-3J	6	10	3	70.7	49	10.9	20	1.5～4.9	-M6
VPOC6×10-20E5-4J			4						
VPOC6×10-20E5-6J			6	72.1		11.7			
VPOC6×10-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC6×10-30E5-4J			4						
VPOC6×10-30E5-6J			6	85.1		11.7			
VPOC6×10-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC6×10-40E5-4J			4						
VPOC6×10-40E5-6J			6	98.1		11.7			
VPOC6×10-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC6×10-50E5-4J			4						
VPOC6×10-50E5-6J			6	111.1		11.7			
VPOC6×20-20E5-3J		20	3	70.7	49	10.9	20	1.5～4.9	
VPOC6×20-20E5-4J			4						
VPOC6×20-20E5-6J			6	72.1		11.7			
VPOC6×20-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC6×20-30E5-4J			4						
VPOC6×20-30E5-6J			6	85.1		11.7			
VPOC6×20-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC6×20-40E5-4J			4						
VPOC6×20-40E5-6J			6	98.1		11.7			
VPOC6×20-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC6×20-50E5-4J			4						
VPOC6×20-50E5-6J			6	111.1		11.7			
VPOC6×30-20E5-3J		30	3	70.7	49	10.9	20	1.5～4.9	
VPOC6×30-20E5-4J			4						
VPOC6×30-20E5-6J			6	72.1		11.7			
VPOC6×30-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC6×30-30E5-4J			4						
VPOC6×30-30E5-6J			6	85.1		11.7			
VPOC6×30-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC6×30-40E5-4J			4						
VPOC6×30-40E5-6J			6	98.1		11.7			
VPOC6×30-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC6×30-50E5-4J			4						
VPOC6×30-50E5-6J			6	111.1		11.7			
VPOC8×20-20E5-3J	8	20	3	70.7	49	10.9	20	1.5～4.9	
VPOC8×20-20E5-4J			4						
VPOC8×20-20E5-6J			6	72.1		11.7			
VPOC8×20-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC8×20-30E5-4J			4						
VPOC8×20-30E5-6J			6	85.1		11.7			
VPOC8×20-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC8×20-40E5-4J			4						
VPOC8×20-40E5-6J			6	98.1		11.7			
VPOC8×20-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC8×20-50E5-4J			4						
VPOC8×20-50E5-6J			6	111.1		11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

Outer spring plunger / Top port / Push-in fitting

VPOC5×203**E**5 6
VPOC5×303**E**5 6
VPOC6×103**E**5 6
VPOC6×203**E**5 6
VPOC6×303**E**5 6
VPOC8×203**E**5 6
VPOC8×303**E**5 6



RoHS Compliant CAD (2D&3D)

Stroke (mm)
20,30,40,50

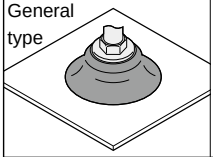
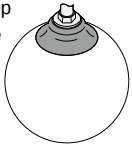
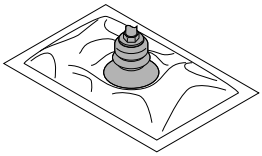
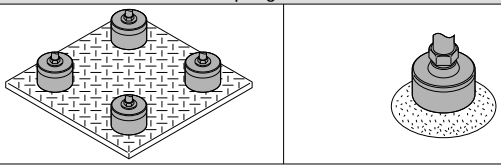
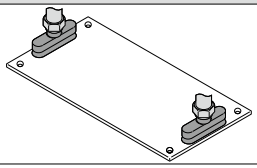
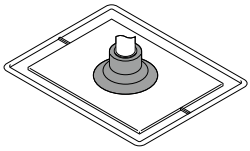
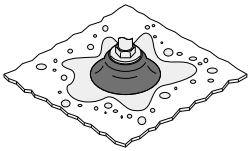
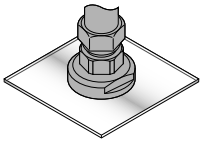
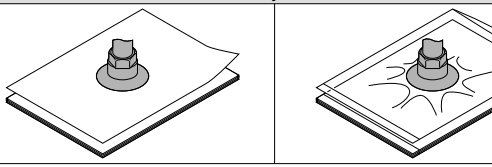
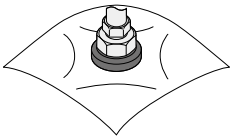
Unit：mm

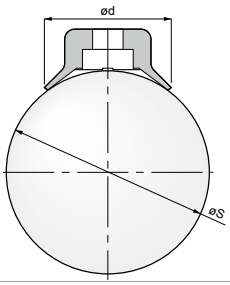
Model code	Cup size		Tubing O.D.	B	L	Tube end	Stroke	Spring force	Cup fitting
	X	Y	øD			C	S	(N)	config. code
VPOC8×30-20E5-3J	8	30	3	70.7	49	10.9	20	1.5～4.9	-M6
VPOC8×30-20E5-4J			4						
VPOC8×30-20E5-6J			6	72.1		11.7			
VPOC8×30-30E5-3J			3	83.7	62	10.9	30	1.1～4.8	
VPOC8×30-30E5-4J			4						
VPOC8×30-30E5-6J			6	85.1		11.7			
VPOC8×30-40E5-3J			3	96.7	75	10.9	40	1.0～4.5	
VPOC8×30-40E5-4J			4						
VPOC8×30-40E5-6J			6	98.1		11.7			
VPOC8×30-50E5-3J			3	109.7	88	10.9	50	0.9～4.5	
VPOC8×30-50E5-4J			4						
VPOC8×30-50E5-6J			6	111.1		11.7			

※ .5: Replaced with Cup rubber material code. Refer to the cup material table for details.
※ .Tightening torque of panel mount nuts for plunger body is 4.5~6N·m.

Selection Guide 2 ▶ Select a vacuum cup type depending on a work-piece.

Please select suitable cups for your application from the following as references.

<table>
<tr><th colspan="3">Standard</th><th>Bellows / Multi-bellows</th></tr>
<tr><td>General type
  </td><td>Deep type
  </td><td>Small type
 </td><td>  </td></tr>
<tr><td>Thick & flat work-piece</td><td>Round fruit or ball (*1)</td><td>Small work-piece or semiconductor manufacturing device</td><td>Food package</td></tr>
<tr><th colspan="2">Sponge</th><th colspan="2">Oval</th></tr>
<tr><td colspan="2">  </td><td colspan="2">  </td></tr>
<tr><td colspan="2">Exterior wall panel, pebble, seashell</td><td colspan="2">Long work-piece (e.g. circuit board and semiconductor product)</td></tr>
<tr><th>Soft / Soft bellows</th><th>Skidproof</th><th colspan="2">Mark-free</th></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
<tr><td>Taking out molded parts / Fragile work-piece</td><td>Greasy work-piece such as pressed parts</td><td colspan="2">LCD glass / in Painting process / semiconductor manufacturing device</td></tr>
<tr><th colspan="2">Thin object</th><th colspan="2">Flat</th></tr>
<tr><td colspan="2">  </td><td colspan="2">  </td></tr>
<tr><td colspan="2">Thin work-piece such as paper or plastic bag</td><td colspan="2">Thin work-piece such as sheet or plastic bag</td></tr>
</table>

*1.The table below is a reference for the vacuum cup deep type and the size of round work-piece.

Spherical dia. : **S** (mm)	ø20	ø30	ø40	ø50	ø80	ø100	ø120	ø160	ø200
Cup dia. : **d** (mm)	ø15	ø20	ø25	ø30	ø40	ø50	ø60	ø80	ø100