

# Suction Cups / Suction Cups (Direct-Mount)

Fixed Type / Spring Type

Tubes/Fittings/Suction Components/Nozzles

**Suction Cups - Fixed Type**  
Up: One-Touch Type (Shape K)

Type	Accessories	Color	Pad Material
MVCKN	VPCT	Soft	Nitrile Rubber
MVCKE	VPCE	Soft	Conductive Silicon Rubber
MVCKN	VPDT	Soft Bellows	Nitrile Rubber

**Soft Type No. 4-15**      **Soft Bellows Type No. 6-15**

Fitting Material: Brass  
Surface Treatment: Electroless Nickel Plating

**Suction Cups - Spring Type**  
Up: One-Touch Type (Shape T)

Type	Accessories	Color	Pad Material
MVCTN	VPCT	Soft	Nitrile Rubber
MVCTE	VPCE	Soft	Conductive Silicon Rubber
MVDTN	VPDT	Soft Bellows	Nitrile Rubber

**Soft Type No. 4-15**      **Soft Bellows Type No. 6-15**

Fitting Material: Brass  
Surface Treatment: Electroless Nickel Plating

Part Number		D		d		L1		Shape K		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVCK Soft	N E	4	6	4	12.2	40.4	18.3	9.5	4.0-7.1	
		6	6	6	12.2	40.4	18.3	16		
		8	6	8	12.2	40.4	18.3	16		
		10	6	10	14	42.2	20.1	24.5		
		15	6	15	14	42.2	20.1	24.5		

Part Number		D		d		L1		Shape K		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVDK Soft Bellows	N	6	6	6	15	43.2	21.1	16	4.0-7.1	
		8	6	8	15	43.2	21.1	16		
		10	6	10	15.5	43.7	21.6	24.5		
		15	6	15	17.5	43.7	23.6	25		

Part Number		D		d		L1		Shape T		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVCT Soft	N E	4	6	4	12.2	66.4	32.3	20.5	4.0-7.1	
		6	6	6	12.2	66.4	32.3	22		
		8	6	8	12.2	66.4	32.3	22		
		10	6	10	14	68.2	34.1	39		
		15	6	15	14	68.2	34.1	39		

Part Number		D		d		L1		Shape T		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVDT Soft Bellows	N	6	6	6	15	69.2	35.1	22	4.0-7.1	
		8	6	8	15	69.2	35.1	22		
		10	6	10	15.5	69.7	35.6	39		
		15	6	15	17.5	71.7	37.6	39.5		

**Suction Cups - Spring Type**  
Side: One-Touch Type (Shape L)

Type	Accessories	Color	Pad Material
MVCLN	VPCT	Soft	Nitrile Rubber
MVCLE	VPCE	Soft	Conductive Silicon Rubber
MVDLN	VPDT	Soft Bellows	Nitrile Rubber

**Soft Type No. 4-15**      **Soft Bellows Type No. 6-15**

Fitting Material: Brass  
Surface Treatment: Electroless Nickel Plating

**Suction Cups (Direct-Mount) - Spring Type**  
Screw Type (Shape S)

Type	Accessories	Color	Pad Material
MVCSN	VPCT	Soft	Nitrile Rubber
MVNSE	VPCE	Soft	Conductive Silicon Rubber
MVDSN	VPDT	Soft Bellows	Nitrile Rubber

**Soft Type No. 4-15**      **Soft Bellows Type No. 6-15**

Fitting Material: Brass  
Surface Treatment: Electroless Nickel Plating

Part Number		D		d		L1		Shape L		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVCL Soft	N E	4	6	4	12.2	64.4	41.3	17	4.0-7.1	
		6	6	6	12.2	64.4	41.3	19		
		8	6	8	12.2	64.4	41.3	19		
		10	6	10	14	66.2	43.1	51		
		15	6	15	14	66.2	43.1	51		

Part Number		D		d		L1		Shape L		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVDL Soft Bellows	N	6	6	6	15	67.2	44.1	19	4.0-7.1	
		8	6	8	15	67.2	44.1	19		
		10	6	10	15.5	67.7	44.6	51		
		15	6	15	17.5	69.7	46.6	51.5		

Part Number		D		d		L1		Shape S		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVCS Soft	N E	4	6	4	12.2	57.3	45.6	18	7.9-15.0	
		6	6	6	12.2	57.3	45.6	18		
		8	6	8	12.2	57.3	45.6	18		
		10	6	10	14	58.9	47.4	59		
		15	6	15	14	58.9	47.4	59		

Part Number		D		d		L1		Shape S		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	L2	Mass g	
MVDS Soft Bellows	N	6	6	6	15	60.1	48.3	18	7.9-15.0	
		8	6	8	15	60.1	48.3	18		
		10	6	10	15.5	60.6	48.8	59		
		15	6	15	17.5	62.6	50.8	59.5		

**Suction Cups - Vacuum Cylinder Type (M Shape)**

Type	Accessories	Color	Pad Material
MVCMN	VPCT	Soft	Nitrile Rubber
MVCMN	VPCE	Soft	Conductive Silicon Rubber

**Soft Type No. 4-15**

Fitting Material: Brass  
Surface Treatment: Electroless Nickel Plating

Part Number		D		d		L1		M Shape		Spring Max. Load (N)
Type	Pad Material	No.	6	8	10	15	B	Mass g		
MVCM Soft	N E	4	6	4	12	64	34	34		
		6	6	6	12	64	34			
		8	6	8	12	64	34			
		10	6	10	14	66	34.5			
		15	6	15	14	66	34.5			

**Part Number Example**      **Part Number** MVCKN4

**Cautions for installation of Suction Cup Fittings**  
For Spring Type, mount fittings without tightening the shaft parts with spanner, etc. Otherwise, the shaft key groove may be deformed, and may cause malfunction.

# Suction Cups

Soft Type / Soft Bellows Type

**Suction Cups**

Type	Material	Pad Shape	Hardness	Color
VPCT	Nitrile Rubber	Soft	Shore A55	Black
VPCE	Conductive Silicon Rubber	Soft	Shore A60	Black
VPDT	Nitrile Rubber	Soft Bellows	Shore A55	Black

**Soft Type**      **Soft Bellows Type**

**Soft Type No. 4, 6, 8, 10, 15**      **Soft Bellows Type No. 6, 8, 10, 15**

(Stroke: 1mm)      (Stroke: 2mm)      (Stroke: 1.5mm)      (Stroke: 5mm)

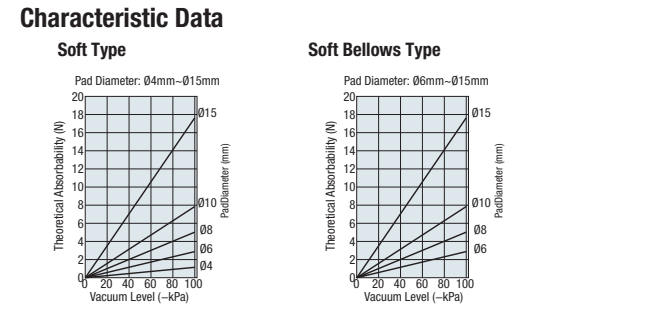
Part Number		Applicable Vacuum Fitting MVC	Mounting Type
VPCT VPCE	4	4	Attachment Type
	6	6	
	8	8	
	10	10	
	15	15	

Part Number		Applicable Vacuum Fitting MVD	Mounting Type
VPDT	6	6	Attachment Type
	8	8	
	10	10	
	15	15	

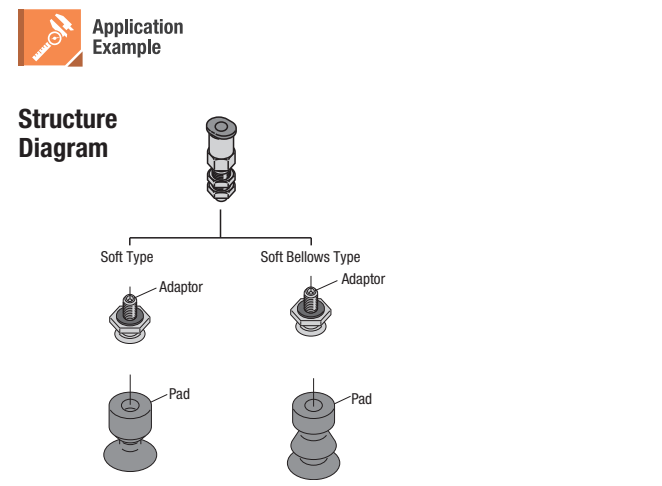
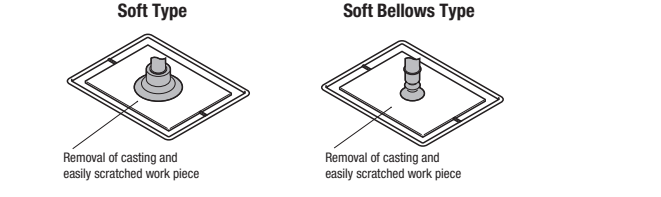
\* VPDT type include pad screws.

**Part Number Example**      **Part Number** VPDT10

**Application Example**



Soft Type is excellent in flexibility, vacuum is possible with comparatively no scratch on work.  
The Soft Bellows Type is excellent in flexibility and best suitable for sticking to things like paper.



**Specifications**

Type	VPCT / VPDT	VPCE
Max. Operating Temperature	110°	180°
Min. Operating Temperature	-30°	-40°
Weather Resistance	Acceptable	Excellent
Ozone Resistance	Acceptable	Excellent
Acid Resistance	Acceptable	Good
Alkali Resistance	Good	Excellent
Oil Resistance	(Gasoline, Light Oil)	Excellent
	(Benzene, Toluene)	Acceptable
Surface Resistivity	—	10 <sup>4</sup> -10 <sup>8</sup> Ω/sq

Tubes/Fittings/Suction Components/Nozzles