

# Suction Cup Fittings (With Pads)

Soft Type / Soft Bellows Type

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

Type	Accessory	Pad Shape	Pad Material
MVCKN	Suction Cups	VPCT	Soft Nitrile Rubber
MVCKE	VPCE	VPCE	Conductive Silicon Rubber
MVDKN	VPDT	VPDT	Soft Bellows Nitrile Rubber

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

RoHS 10      M Fitting Material: Brass      S Surface Treatment: Electroless Nickel Plating

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

Type	Accessory	Pad Shape	Pad Material
MVCTN	Suction Cups	VPCT	Soft Nitrile Rubber
MVCTE	VPCE	VPCE	Conductive Silicon Rubber
MVDTN	VPDT	VPDT	Soft Bellows Nitrile Rubber

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

RoHS 10      M Fitting Material: Brass      S Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	Shape K	Mass g	Spring Max. Load (N)	Unit Price
MVCK (Soft)	N	E	4	6	4	12.2	B	18.3	9.5	1 ~ 30 pc(s)
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	Type	Pad Material	No.	D	d	L1	Shape T	Mass g	Spring Max. Load (N)	Unit Price
MVCT (Soft)	N	E	4	6	4	12.2	B	32.3	20.5	1 ~ 30 pc(s)
6			6	6	12.2	66.4	32.3	22	4.0~7.1	
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	Type	Pad Material	No.	D	d	L1	Shape K	Mass g	Unit Price	
MVDK (Soft Bellows)	N		6	6	6	15	B	21.1	16	1 ~ 30 pc(s)
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	45.7	23.6	25		

Part Number	Type	Pad Material	No.	D	d	L1	Shape T	Mass g	Spring Max. Load (N)	Unit Price
MVDT (Soft Bellows)	N		6	6	6	15	B	35.1	22	1 ~ 30 pc(s)
8			6	8	15	69.2	35.1	22	4.0~7.1	
10			6	10	15.5	69.7	35.6	39		
15			6	15	17.5	71.7	37.6	39.5		

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

Type	Accessory	Pad Shape	Pad Material
MVCLN	Suction Cups	VPCT	Soft Nitrile Rubber
MVCLE	VPCE	VPCE	Conductive Silicon Rubber
MVDLN	VPDT	VPDT	Soft Bellows Nitrile Rubber

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

RoHS 10      M Fitting Material: Brass      S Surface Treatment: Electroless Nickel Plating

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

Type	Accessory	Pad Shape	Pad Material
MVCSN	Suction Cups	VPCT	Soft Nitrile Rubber
MVNSE	VPCE	VPCE	Conductive Silicon Rubber
MVDSN	VPDT	VPDT	Soft Bellows Nitrile Rubber

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

RoHS 10      M Fitting Material: Brass      S Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	Shape L	Mass g	Spring Max. Load (N)	Unit Price
MVCL (Soft)	N	E	4	6	4	12.2	B	41.3	17	1 ~ 30 pc(s)
6			6	6	12.2	64.4	41.3	19	4.0~7.1	
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	Type	Pad Material	No.	D	d	L1	Shape S	Mass g	Spring Max. Load (N)	Unit Price
MVCS (Soft)	N	E	4	4	4	12.2	B	45.6	18	1 ~ 30 pc(s)
6			6	6	12.2	57.3	45.6	18	7.9~15.0	
8			6	8	12.2	57.3	45.6	18		
10			6	10	14	59.1	47.4	59		
15			6	15	14	59.1	47.4	59		

Part Number	Type	Pad Material	No.	D	d	L1	Shape L	Mass g	Spring Max. Load (N)	Unit Price
MVDL (Soft Bellows)	N		6	6	6	15	B	44.1	19	1 ~ 30 pc(s)
8			6	8	15	67.2	44.1	19	4.0~7.1	
10			6	10	15.5	67.7	44.6	51		
15			6	15	17.5	69.7	46.6	51.5		

Part Number	Type	Pad Material	No.	D	d	L1	Shape S	Mass g	Spring Max. Load (N)	Unit Price
MVDS (Soft Bellows)	N		6	6	6	15	B	48.4	18	1 ~ 30 pc(s)
8			6	8	15	60.1	48.4	18	7.9~15.0	
10			6	10	15.5	60.6	48.9	59		
15			6	15	17.5	62.6	50.9	59.5		

**Vacuum Cylinder Type (M Shape)**

Type	Accessory	Pad Shape	Pad Material
MVCMN	Suction Cups	VPCT	Soft Nitrile Rubber
MVCMC	VPCE	VPCE	Conductive Silicon Rubber

Soft Type No.4-15

RoHS 10      M Fitting Material: Brass      S Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	Shape M	Mass g	Unit Price
MVCM (Soft)	N	E	4	6	4	12	B	34	1 ~ 20 pc(s)
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		

**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.

Ordering Example: **Part Number MVCKN4**

# Suction Cup Units

Soft Type / Soft Bellows Type

**Suction Cup Units**

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

RoHS 10

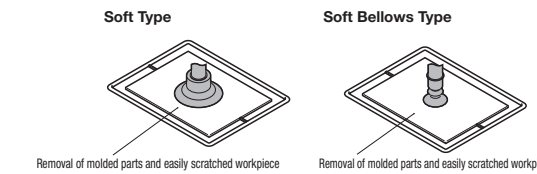
Part Number	Type	Applicable Vacuum Fitting	Mounting	Unit Price	Volume Discount Rate
VPCT	N	MVC	Attachment Type	1 ~ 9 pc(s)	10~30
4				4	
6				6	
8				8	
10				10	

Part Number	Type	Applicable Vacuum Fitting	Mounting	Unit Price	Volume Discount Rate
VPDT	N	MVD	Attachment Type	1 ~ 9 pc(s)	10~30
6				6	
8				8	
10				10	

\* VPDT type include pad screws.

Ordering Example: **Part Number MVCKN4 VPDT10**

Example



- Soft Type is excellent in flexibility, and is capable of sucking a workpiece without making no scratch on them relatively.
- The Soft Bellows Type is excellent in flexibility and best suitable for sticking to things like paper.

## Specifications

Type	VPCT, VPDT	VPCE
Max. Operating Temp.	110°	180°
Min. Operating Temp.	-30°	-40°
Weather Resistance	△	○
Ozone Resistance	△	○
Acid Resistance	△	○
Alkali Resistance	○	○
Oil (Gasoline, Light Oil) Resistance	○	△
Resistance (Benzene, Toluene)	△	△
Surface Resistivity	-	10 <sup>4</sup> ~10 <sup>6</sup> Ω/sq

## Characteristic Data

