

# Suction Cup Fittings (With Pads)

Sponge Type / Bellows Type

# Suction Cup Units / Installation Attachments

Sponge Type / Bellows Type

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

Type	Accessories	Pad Shape	Pad Material
MVSKS	Suction Cups	VPSK	Sponge
MVBKN		VPBT	Bellows
MVBKE		VPBE	

**Sponge Type No.10-30**   **Bellows Type No.10**   **Bellows Type No.20-40**

RoHS 10

Fitting Material: Brass S Surface Treatment: Electroless Nickel Plating

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

Type	Accessories	Pad Shape	Pad Material
MVSTS	Suction Cups	VPSK	Sponge
MVBTN		VPBT	Bellows
MVBTE		VPBE	

**Sponge Type No.10-30**   **Bellows Type No.10**   **Bellows Type No.20-40**

RoHS 10

Fitting Material: Brass S Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L <sub>1</sub>	Shape K	Unit Price		
MVSK (Sponge)	S		10	6	10	9.5	37.2	15.1	M14x1.0	31.5
			15	6	15	9.5	37.2	15.1	M14x1.0	32
			20	6	20	15.5	43.2	21.1	M14x1.0	33.5
			25	6	25	15.5	43.2	21.1	M14x1.0	35
			30	6	30	15.5	43.2	21.1	M14x1.0	35

Part Number	Type	Pad Material	No.	D	d	L <sub>1</sub>	Shape T	Unit Price		
MVST (Sponge)	S		10	6	10	9.5	61.6	27.5	35	
			15	6	15	9.5	61.6	27.5	35.5	
			20	6	20	15.5	67.6	33.5	37	7.0~12.6
			25	6	25	15.5	67.6	33.5	38.5	
			30	6	30	15.5	67.6	33.5	38.5	

Part Number	Type	Pad Material	No.	D	d	L <sub>1</sub>	Shape K	Unit Price		
MVBK (Bellows)	NE		10	6	10	16	42.1	20	M12x1.0	21.5
			20	6	20	19	46.7	24.6	M14x1.0	36.5
			30	6	30	23	50.7	28.6	M14x1.0	40
			40	6	40	30	57.7	35.6	M14x1.0	48.5

Part Number	Type	Pad Material	No.	D	d	L <sub>1</sub>	Shape T	Unit Price		
MVBNT (Bellows)	NE		10	6	10	16	68.1	34	36	4.0~7.1
			20	6	20	19	71.1	37	39.5	
			30	6	30	23	75.1	41	43.5	7.0~12.6
			40	6	40	30	82.1	48	52	

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

Type	Accessories	Pad Shape	Pad Material
MVLSL	Suction Cups	VPSK	Sponge
MVBLN		VPBT	Bellows
MVBLE		VPBE	

**Sponge Type No.10-30**   **Bellows Type No.10**   **Bellows Type No.20-40**

RoHS 10

Fitting Material: Brass S Surface Treatment: Electroless Nickel Plating

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

Type	Accessories	Pad Shape	Pad Material
MVSSL	Suction Cups	VPSK	Sponge
MVBSN		VPBT	Bellows
MVBLE		VPBE	

**Sponge Type No.10-30**   **Bellows Type No.10**   **Bellows Type No.20-40**

RoHS 10

Fitting Material: Brass S Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L <sub>1</sub>	Shape L	Unit Price		
MVSL (Sponge)	S		10	6	10	9.5	59.6	36.5	46.5	
			15	6	15	9.5	59.6	36.5	47	
			20	6	20	15.5	65.6	42.5	48.5	7.0~12.6
			25	6	25	15.5	65.6	42.5	50	
			30	6	30	15.5	65.6	42.5	50	

Part Number	Type	Pad Material	No.	d	L <sub>1</sub>	Shape S	Unit Price		
MVSS (Sponge)	S		10	10	9.5	53.5	41.8	54	
			15	15	9.5	53.5	41.8	54.5	
			20	20	15.5	59.5	47.8	56	7.9~15.0
			25	25	15.5	59.5	47.8	57.5	
			30	30	15.5	59.5	47.8	57.5	

Part Number	Type	Pad Material	No.	D	d	L <sub>1</sub>	Shape L	Unit Price		
MVBL (Bellows)	NE		10	6	10	16	66.1	43	48	
			20	6	20	19	69.1	46	51.5	
			30	6	30	23	73.1	50	55	7.0~12.6
			40	6	40	30	80.1	57	63.5	

Part Number	Type	Pad Material	No.	d	L <sub>1</sub>	Shape S	Unit Price		
MVBS (Bellows)	NE		10	10	16	59	47.3	56	
			20	20	19	63	51.3	58.5	7.9~15.0
			30	30	23	67	55.3	62	
			40	40	30	74	62.3	70.5	

**Spring Type-Long Stroke**  
(Shape R)

Type	Accessories	Pad Shape	Pad Material
MVSR	Suction Cups	VPSK	Sponge
MVBRN		VPBT	Bellows
MVBRE		VPBE	

**Sponge Type No.10-30**   **Bellows Type No.10-40**

RoHS 10

Fitting Material: Brass S Surface Treatment: Electroless Nickel Plating

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

Type	Accessories	Pad Shape	Pad Material
MVSR	Suction Cups	VPSK	Sponge
MVBRN		VPBT	Bellows
MVBRE		VPBE	

**Sponge Type No.10-30**   **Bellows Type No.10-40**

RoHS 10

Fitting Material: Brass S Surface Treatment: Electroless Nickel Plating

**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 **MVSKS10** Days to Ship **Configure Online**

**Suction Cup Units**

**Sponge Type**

**Bellows Type**

RoHS 10

Type	Material	Pad Shape	Hardness	Color
VPSK	Chloroprene Rubber	Sponge	-	Black
VPBT	Nitrile Rubber	Bellows	Shore A55	Black
VPBE	Conductive Silicon Rubber	Bellows	Shore A60	Black

**Sponge Type No.10**   **No.15**   **No.20**   **No.25**   **No.30**

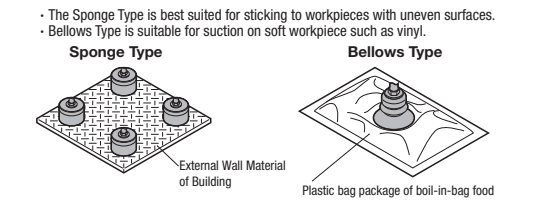
**Bellows Type No.10**   **No.20**   **No.30**   **No.40**

Part Number	Type	Applicable Vacuum Fitting MVS	Mounting	Unit Price	Volume Discount Rate
VPSK		10	10	Attachment Type	1-9 pcs.
		15	15		
		20	20		
		25	25		
		30	30		

Not available in combination with vacuum fittings (SRK, SRKN, SRKNS) on P1342.

Part Number	Type	Applicable Vacuum Fitting MVB	Mounting	Unit Price	Volume Discount Rate
VPBT		10	10	Attachment Type	1-9 pcs.
		20	20		
		30	30		
		40	40		

**Example**  
The Sponge Type is best suited for sticking to workpieces with uneven surfaces.  
Bellows Type is suitable for suction on soft workpiece such as vinyl.



**Installation Attachments**

**MVPAT4**   **MVPAT6**

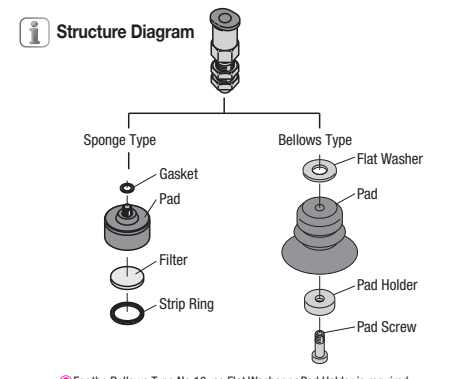
RoHS 10

Material: Brass S Surface Treatment: Electroless Nickel Plating

Part Number	Mass (g)	Applicable Pad	Unit Price
MVPAT	4	1.1	No.10, No.15
MVPAT	6	3	No.20

MVPAT4 is applicable for Standard and Bellows Type.  
MVPAT6 is applicable for Standard, Deep and Bellows Type.

Ordering Example: Part Number **VPSK10** Days to Ship **Configure Online**



For the Bellows Type No.10, no Flat Washer or Pad Holder is required.

**Specifications**

Type	VPSK	VPBT	VPBE
Max. Operating Temp.	80°	110°	180°
Min. Operating Temp.	-45°	-30°	-40°
Weather Resistance	○	△	○
Ozone Resistance	○	△	○
Acid Resistance	○	△	○
Alkali Resistance	○	△	○
Oil Resistance (Gasoline, Light Oil)	×	○	△
Resistance (Benzene, Toluene)	△	△	△
Surface Resistivity	-	-	10 <sup>4</sup> ~10 <sup>10</sup> /sq

