

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

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

RoHS 10

Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

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

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

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

RoHS 10

Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	Shape K	Unit Price		
							B L2 M	1 ~ 30 pc(s)		
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	L1	Shape K	Unit Price		
							B L2 M	1 ~ 30 pc(s)		
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

For orders larger than indicated quantity, please check with WOS.

Part Number	Type	Pad Material	No.	D	d	L1	Shape T	Unit Price		
							B L2 Mass g Spring Max. Load (N)	1 ~ 30 pc(s)		
MVST (Sponge)	S		10	6	10	9.5	61.6	27.5	35	7.0~12.6
			15	6	15	9.5	61.6	27.5	35.5	
			20	6	20	15.5	67.6	33.5	37	
			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	L1	Shape T	Unit Price		
							B L2 Mass g Spring Max. Load (N)	1 ~ 30 pc(s)		
MVBTE (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	
			40	6	40	30	82.1	48	52	

For orders larger than indicated quantity, please check with WOS.

Spring Type Side: One-Touch (Shape L)

Type	Accessory	Pad Shape	Pad Material
MVLS	Suction Cups	VPSK	Sponge
MVBLN		VPBT	Bellows
MVBLE		VPBE	Bellows

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

RoHS 10

Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Direct-Mount Spring Type - Screw (Shape S)

Type	Accessory	Pad Shape	Pad Material
MVSS	Suction Cups	VPSK	Sponge
MVBSN		VPBT	Bellows
MVBSSE		VPBE	Bellows

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

RoHS 10

Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	Shape L	Unit Price		
							B L2 Mass g Spring Max. Load (N)	1 ~ 30 pc(s)		
MVSL (Sponge)	S		10	6	10	9.5	59.6	36.5	46.5	7.0~12.6
			15	6	15	9.5	59.6	36.5	47	
			20	6	20	15.5	65.6	42.5	48.5	
			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	d	L1	Shape L	Unit Price		
							B L2 Mass g Spring Max. Load (N)	1 ~ 30 pc(s)		
MVBL (Bellows)	NE		10	6	10	16	66.1	43	48	4.0~7.1
			20	6	20	19	69.1	46	51.5	
			30	6	30	23	73.1	50	55	
			40	6	40	30	80.1	57	63.5	

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Part Number	Type	Pad Material	No.	d	L1	Shape S	Unit Price		
						B L2 Mass g Spring Max. Load (N)	1 ~ 30 pc(s)		
MVSS (Sponge)	S		10	10	9.5	53.5	41.8	54	7.9~15.0
			15	15	9.5	53.5	41.8	54.5	
			20	20	15.5	59.5	47.8	56	
			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	L1	Shape S	Unit Price		
						B L2 Mass g Spring Max. Load (N)	1 ~ 30 pc(s)		
MVBS (Bellows)	NE		10	10	16	59	47.3	56	7.9~15.0
			20	20	19	63	51.3	58.5	
			30	30	23	67	55.3	62	
			40	40	30	74	62.3	70.5	

For orders larger than indicated quantity, please check with WOS.

Spring Type Long Stroke (Shape R)

Type	Accessory	Pad Shape	Pad Material
MVRS	Suction Cups	VPSK	Sponge
MVBRN		VPBT	Bellows
MVBRE		VPBE	Bellows

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

RoHS 10

Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	Shape R	Unit Price		
							B L2 Mass g Spring Max. Load (N)	1 ~ 20 pc(s)		
MVSR (Sponge)	S		10	6	10	9.5	67.6	33.5	37.5	3.3~10.0
			15	6	15	9.5	67.6	33.5	38	
			20	6	20	15.5	73.6	39.5	39.5	
			25	6	25	15.5	73.6	39.5	41	
			30	6	30	15.5	73.6	39.5	41	

Part Number	Type	Pad Material	No.	D	d	L1	Shape R	Unit Price		
							B L2 Mass g Spring Max. Load (N)	1 ~ 20 pc(s)		
MVBR (Bellows)	NE		10	6	10	16	72.6	38.5	37	2.0~5.2
			20	6	20	19	77.1	43	42	
			30	6	30	23	81.1	47	45.5	
			40	6	40	30	88.1	54	54.5	

For orders larger than indicated quantity, please check with WOS.

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

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**

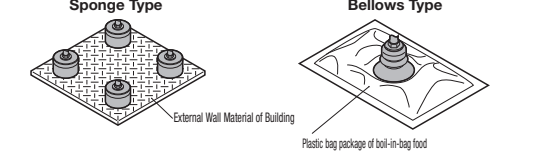
Bellows Type No.10 **No.20** **No.30** **No.40**

Part Number	Type	Applicable Vacuum Fitting MVS	Mounting	Unit Price	Volume Discount Rate
VPSK		10	10	Attachment Type	1 ~ 9 pc(s), 10-30
		15	15		
		20	20		
		25	25		
		30	30		

Part Number	Type	Applicable Vacuum Fitting MVB	Mounting	Unit Price	Volume Discount Rate
VPBT		10	10	Attachment Type	1 ~ 9 pc(s), 10-30
		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 Attachment

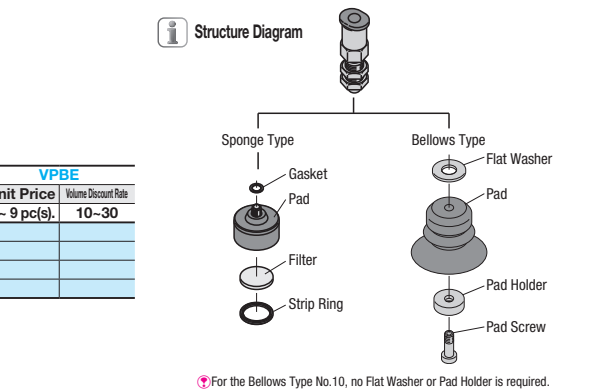
MVPAT4 **MVPAT6**

RoHS 10

Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Mass (g)	Applicable Pad	Unit Price
MVPAT	4	1.1	No.10 - No.15	1 ~ 50 pc(s)
	6	3	No.20	

Ordering Example: Part Number VPSK10



For the Bellows Type No.10, no Flat Washer or Pad Holder is required.
 No other part is supplied with a suction cup sold as a single item.

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 ¹⁰ ~10 ¹² Ω/sq

