

# Suction Cup Fittings (With Pads)

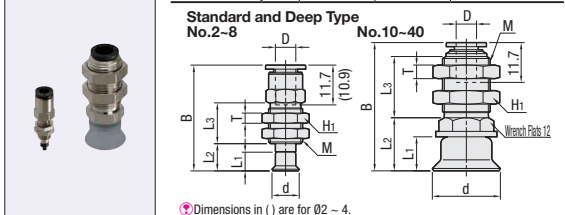
Standard / Deep Type

# Suction Cup Fittings (With Pads) / Suction Cup Units

Small Type

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

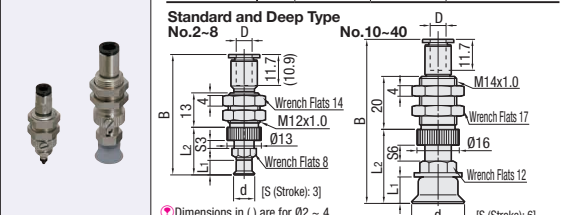
Type	Accessory	Pad Shape	MPad Material
MVPKN	VPNT	Standard	Nitrile Rubber
MVPKE	VPUE	Standard	Conductive Silicon Rubber
MVPKF	VPUF	Standard	Fluoro Rubber
MVFKN	VPFT	Deep	Nitrile Rubber
MVFKF	VPFF	Deep	Fluoro Rubber



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

Type	Accessory	Pad Shape	MPad Material
MVPTN	VPNT	Standard	Nitrile Rubber
MVPTT	VPUE	Standard	Conductive Silicon Rubber
MVPTF	VPUF	Standard	Fluoro Rubber
MVFTN	VPFT	Deep	Nitrile Rubber
MVFTF	VPFF	Deep	Fluoro Rubber



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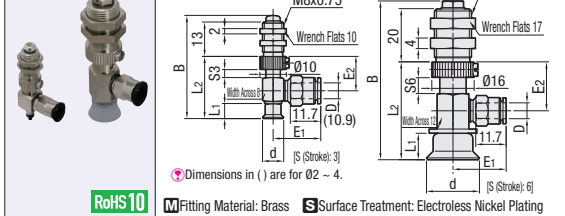
Part Number		Shape K										Unit Price			
Type	Pad Material	No.	D	d	L1	B	L2	L3	Wrench Flats H	T	M	Mass g	1 - 50 pcs(s)		
MVPK (Standard)	NEF	2	4	2	4	28.3	6	10	8	2	M6x0.75	6			
		3	4	3	4	28.3	6	10	8	2	M6x0.75	6			
		4	4	4	4	28.3	6	10	8	2	M6x0.75	6			
		6	6	7	38.6	9.5	12	12	3	M10x1.0	12.5	12.5			
		8	6	8	5.5	31.1	8	12	12	3	M10x1.0	12.5	12.5		
		10	6	10	8	34.1	12	18.5	14	4	M12x1.0	21	21		
MVPK (Deep)	NF	15	6	15	9	35.1	13	18.5	14	4	M12x1.0	21.5			
		20	6	20	10	37.7	15.6	18	17	4	M14x1.0	36.5			

Part Number		Shape T										Unit Price			
Type	Pad Material	No.	D	d	L1	B	L2	L3	Wrench Flats H	Spring Max. Load (N)	M	Mass g	1 - 50 pcs(s)		
MVPT (Standard)	NEF	2	4	2	4	43.2	17.5	17	17	0.9-1.9		17			
		3	4	3	4	43.2	17.5	17	17	0.9-1.9		17			
		4	4	4	4	43.2	17.5	17	17	0.9-1.9		17			
		6	6	6	7	43.2	19.5	18.5	18	18.5	4.0-7.1		35.5		
		8	6	8	8	5.5	45.6	18	18.5	18.5	4.0-7.1		35.5		
		10	6	10	8	60.1	26	35.5	35.5	35.5	7.0-12.6		39.5		
MVPT (Deep)	NF	20	6	20	11	63.1	29	39.5	39.5	7.0-12.6		39.5			
		25	6	25	12	64.1	30	40	40	7.0-12.6		40			
		30	6	30	14	66.1	32	42.5	42.5	7.0-12.6		42.5			
		40	6	40	17.5	69.6	35.5	50.5	50.5	7.0-12.6		50.5			

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

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

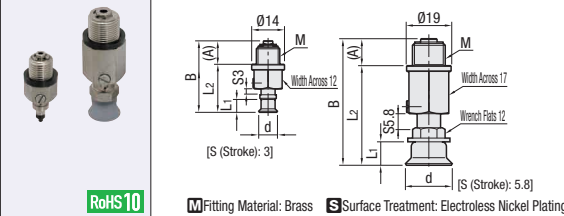
Type	Accessory	Pad Shape	MPad Material
MVPLN	VPNT	Standard	Nitrile Rubber
MVPLE	VPUE	Standard	Conductive Silicon Rubber
MVPLF	VPUF	Standard	Fluoro Rubber
MVFLN	VPFT	Deep	Nitrile Rubber
MVFLF	VPFF	Deep	Fluoro Rubber



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

Type	Accessory	Pad Shape	MPad Material
MVPSN	VPNT	Standard	Nitrile Rubber
MVPSL	VPUE	Standard	Conductive Silicon Rubber
MVPSF	VPUF	Standard	Fluoro Rubber
MVFSN	VPFT	Deep	Nitrile Rubber
MVFSF	VPFF	Deep	Fluoro Rubber



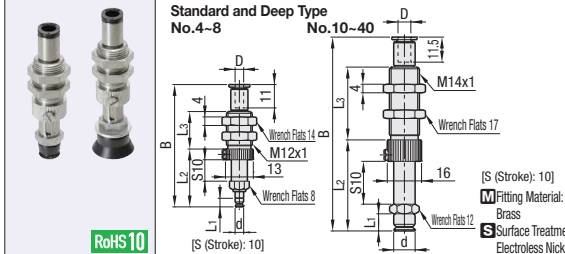
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Part Number		Shape L										Unit Price			
Type	Pad Material	No.	D	d	L1	B	L2	E1	E2	Mass g	Spring Max. Load (N)	M	1 - 30 pcs(s)		
MVPL (Standard)	NEF	2	4	2	4	40	24	16.7	12.5	13.5	0.9-1.9				
		3	4	3	4	40	24	16.7	12.5	13.5	0.9-1.9				
		4	4	4	4	40	24	16.7	12.5	13.5	0.9-1.9				
		6	6	7	4	25	18.1	13	15.5	15.5	4.0-7.1		47.5		
		8	6	8	5.5	39.5	23.5	18.1	13	15.5	4.0-7.1		47.5		
		10	6	10	8	58.1	35	20.1	18.5	15.5	7.0-12.6		51.5		
MVPL (Deep)	NF	15	6	15	9	59.1	36	20.1	18.5	48	7.0-12.6		51.5		
		20	6	20	10	60.1	37	20.1	18.5	51.5	7.0-12.6		51.5		

Part Number		Shape S										Unit Price			
Type	Pad Material	No.	D	d	L1	M	(A)	B	L2	Mass g	Spring Max. Load (N)	M	1 - 30 pcs(s)		
MVPS (Standard)	TFM	2	2	4	M10x1	9.5	32	22.5	14.5	14.5	2.3-3.9				
		3	3	4	M10x1	9.5	32	22.5	14.5	14.5	2.3-3.9				
		4	4	4	M10x1	9.5	32	22.5	14.5	14.5	2.3-3.9				
		6	6	7	M10x1	9.5	32	22.5	14.5	14.5	7.9-15.0		55.5		
		8	6	8	5.5	M10x1	9.5	30.5	21.0	14.5	7.9-15.0		55.5		
		10	6	10	8	M14x1	11.7	51	39.3	55.5	7.9-15.0		55.5		
MVPS (Deep)	NF	15	6	15	9	M14x1	11.7	52	40.3	56	7.9-15.0		55.5		
		20	6	20	10	M14x1	11.7	54	42.3	58.5	7.9-15.0		58.5		

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

Type	Accessory	Pad Shape	MPad Material
MVPRN	VPNT	Standard	Nitrile Rubber
MVPRE	VPUE	Standard	Conductive Silicon Rubber
MVPRF	VPUF	Standard	Fluoro Rubber
MVFRN	VPFT	Deep	Nitrile Rubber
MVFRF	VPFF	Deep	Fluoro Rubber



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Part Number		Shape S										Unit Price		
Type	Pad Material	No.	D	d	L1	M	(A)	B	L2	Mass g	Spring Max. Load (N)	M	1 - 30 pcs(s)	
MVFS (Standard)	NF	20	20	11	M14x1	11.7	55	43.3	58.5	58.5	7.9-15.0			
		25	25	12	M14x1	11.7	56	44.3	59	59	7.9-15.0			
		30	30	14	M14x1	11.7	58	46.3	61	61	7.9-15.0			
		40	40	17.5	M14x1	11.7	61.5	49.8	69	69	7.9-15.0			

Part Number		Shape R										Unit Price	
Type	Pad Material	No.	D	d	L1	B	L2	L3	Mass g	Spring Max. Load (N)	M	1 - 20 pcs(s)	
MVPR (Standard)	NEF	4	4	4	4	57.2	27	17.5	20.5	0.6-1.7			
		6	4	6	7	56.7	26.5	17.5	20	0.8-2.7			
		8	4	8	5.5	55.2	25	17.5	20	0.8-2.7			
		10	6	10	8	64.6	30.5	20	36.5	2.0-5.2			
		15	6	15	9	65.6	31.5	20	37	2.0-5.2			
		20	6	20	10	68.1	34	20	42	3.3-10.0			
MVPR (Deep)	NF	20	6	20	10	69.1	35	20	42	2.0-5.2			
		25	6	25	11	70.1	36	20	42.5	3.3-10.0			
		30	6	30	12	72.1	38	20	44.5	3.3-10.0			
		40	6	40	14	75.6	41.5	20	53	3.3-10.0			

Part Number		Shape S										Unit Price		
Type	Pad Material	No.	D	d	L1	M	(A)	B	L2	Mass g	Spring Max. Load (N)	M	1 - 20 pcs(s)	
MVFR (Deep)	NF	20	6	20	10	69.1	35	20	42	2.0-5.2				
		25	6	25	11	70.1	36	20	42.5	3.3-10.0				
		30	6	30	12	72.1	38	20	44.5	3.3-10.0				
		40	6	40	14	75.6	41.5	20	53	3.3-10.0				

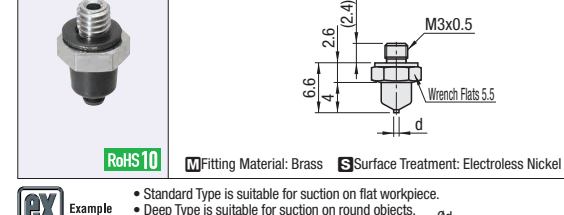
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**Cautions for installation of Suction Cup Fittings**

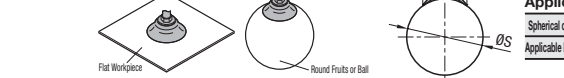
For Spring Type, mount Fittings without tightening the Shaft parts with spanner, etc. Otherwise, the Shaft key groove may be deformed, and may cause malfunction.

**Direct Mounting Type Small (Shape J)**

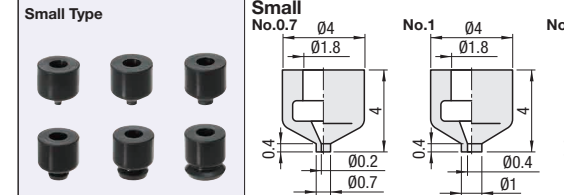
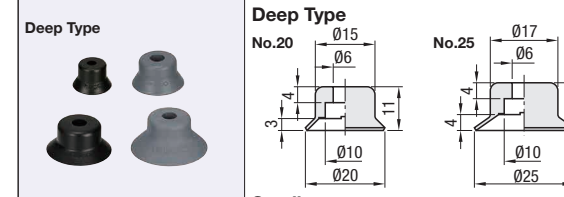
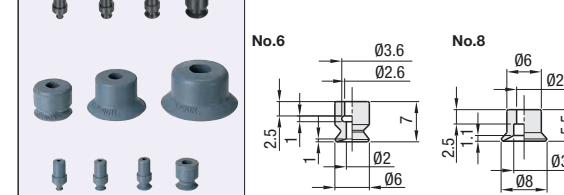
Type	Accessory	Pad Shape	MPad Material
MVPJN	VPJN	Small	Nitrile Rubber
MVPJS	VPJS	Small	Conductive Silicon Rubber
MVPJF	VPJF	Small	Fluoro Rubber



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Type	Material	Pad Shape	Hardness	Color
VPNT	Nitrile Rubber	Standard	Shore A50 - 60	Black
VPUE	Conductive Silicon Rubber	Standard	Shore A60	Black
VPUF	Fluoro Rubber	Standard	Shore A50 - 60	Gray
VPFT	Nitrile Rubber	Deep	Shore A50 - 60	Black
VPJN	Fluoro Rubber	Deep	Shore A50 - 60	Gray
VPJS	Nitrile Rubber	Small	Shore A55	Black
VPJF	Conductive Silicon Rubber	Small	Shore A60	Black
VPJF	Fluoro Rubber	Small	Shore A55	Gray



Part Number	Applicable Vacuum Fitting No.	Mounting	VPNT	VPUE	VPJF
2	2	Insertion Type	1-9 pcs(s)	10-20	1-9 pcs(s)
3	3		1-9 pcs(s)	10-20	1-9 pcs(s)
4	4		1-9 pcs(s)	10-20	1-9 pcs(s)
6	6		1-9 pcs(s)	10-20	1-9 pcs(s)
8	8	Recessed Type			
10	10				
15	15	Attachment Type			
20	20				

Part Number	Applicable Vacuum Fitting	Mounting	VPJN	VPJS	VPJF
20	20	Attachment Type	1-9 pcs(s)	10-20	1-9 pcs(s)
25	25		1-9 pcs(s)	10-20	1-9 pcs(s)
30	30</				