

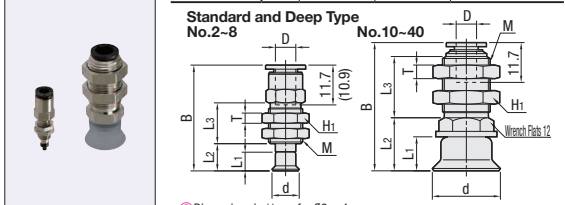
# Suction Cup Fittings (With Pads)

Standard / Deep Type

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

Small Type

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



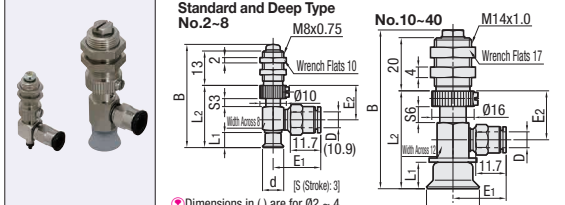
Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	L3	Wrench Flats H	T	M	Mass g	Unit Price
MVPK (Standard)	N	F	2	4	2	4	28.3	6	10	8	2	M6x0.75	6	1 - 50 pc(s)
			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	38.9	9.5	12	12	3	M10x1.0	12.5	18	
			8	8	5.5	31.1	8	12	12	3	M10x1.0	12.5	18	
			10	10	8	34.1	12	18.5	14	4	M12x1.0	21	21	
			15	15	9	35.1	13	18.5	14	4	M12x1.0	21.5	21.5	
			20	20	10	37.7	15.6	18	17	4	M14x1.0	36.5	36.5	

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	L3	Wrench Flats H	T	M	Mass g	Unit Price
MVFK (Deep)	N	F	20	6	20	11	38.7	16.6	18	17	4	M14x1.0	36.5	1 - 30 pc(s)
			25	6	25	12	39.7	17.6	18	17	4	M14x1.0	37	
			30	6	30	14	41.7	19.6	18	17	4	M14x1.0	39	
			40	6	40	17.5	45.2	23.1	18	17	4	M14x1.0	47	

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

Type	Accessory	Pad Shape	Pad 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

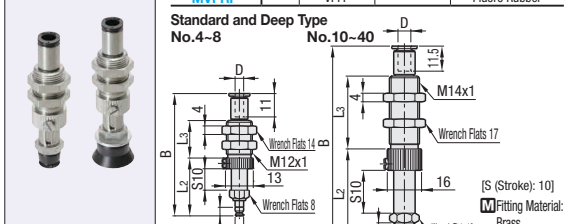


Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	E1	E2	Mass g	Spring Max. Load (N)	Unit Price	
MVPL (Standard)	N	F	2	4	2	4	40	24	16.7	12.5	13.5	13.5	0.9-1.9	1 - 50 pc(s)
			3	4	3	4	40	24	16.7	12.5	13.5	13.5		
			4	4	4	4	40	24	16.7	12.5	13.5	13.5		
			6	6	7	41	25	18.1	13	15.5	15.5	15.5		
			8	8	5.5	39.5	23.5	18.1	13	15.5	15.5	15.5		
			10	10	8	58.1	35	20.1	18.5	47.5	47.5	47.5		
			15	15	9	59.1	36	20.1	18.5	48	48	48		
			20	20	10	60.1	37	20.1	18.5	51.5	51.5	51.5		

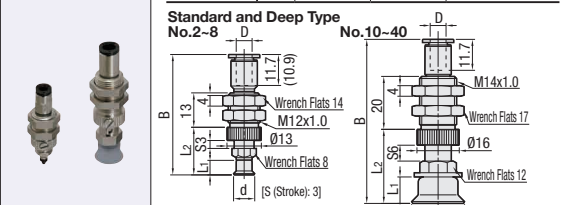
Part Number	Type	Pad Material	No.	D	d	L1	B	L2	E1	E2	Mass g	Spring Max. Load (N)	Unit Price
MVFL (Deep)	N	F	20	6	20	11	61.1	38	20.1	18.5	51.5	51.5	7.0-12.6
			25	6	25	12	62.1	39	20.1	18.5	52	52	
			30	6	30	14	64.1	41	20.1	18.5	54	54	
			40	6	40	17.5	67.6	44.5	20.1	18.5	62	62	

Type	Accessory	Pad Shape	Pad 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



Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

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



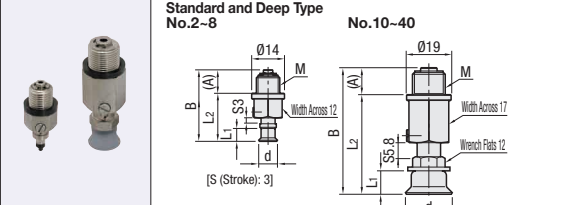
Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	Mass g	Spring Max. Load (N)	Unit Price	
MVPT (Standard)	N	F	2	4	2	4	43.2	17.5	17	17	0.9-1.9	1 - 50 pc(s)
			3	4	3	4	43.2	17.5	17	17		
			4	4	4	4	43.2	17.5	17	17		
			6	6	7	43.2	19.5	18.5	18.5	18.5		
			8	8	5.5	45.6	18	18.5	18.5	18.5		
			10	10	8	60.1	26	35.5	35.5	35.5		
			15	15	9	61.1	27	36	36	36		
			20	20	10	62.1	28	39.5	39.5	39.5		

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	Mass g	Spring Max. Load (N)	Unit Price
MVFT (Deep)	N	F	20	6	20	11	63.1	29	39.5	39.5	7.0-12.6
			25	6	25	12	64.1	30	40	40	
			30	6	30	14	66.1	32	42.5	42.5	
			40	6	40	17.5	69.6	35.5	50.5	50.5	

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

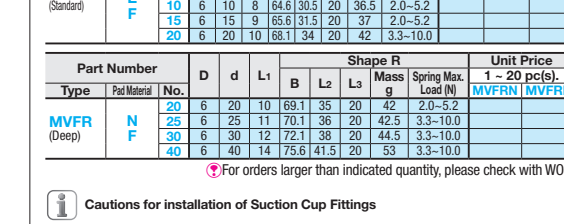


Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

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

Part Number	Type	Pad Material	No.	D	d	L1	M	(A)	B	L2	Mass g	Spring Max. Load (N)	Unit Price
MVFS (Deep)	N	F	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		
			30	30	14	M14x1	11.7	58	46.3	61	61		
			40	40	17.5	M14x1	11.7	61.5	49.3	69	69		

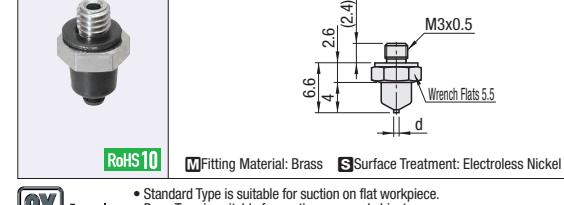
Type	Accessory	Pad Shape	Pad Material
MVPRN	VPNT	Standard	Nitrile Rubber
MVPRE	VPUE	Standard	Conductive Silicon Rubber
MVPRF	VPUF	Standard	Fluoro Rubber
MVFRN	VPFT	Deep	Nitrile Rubber
MVFRF	VPFF	Deep	Fluoro Rubber



Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass 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.

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



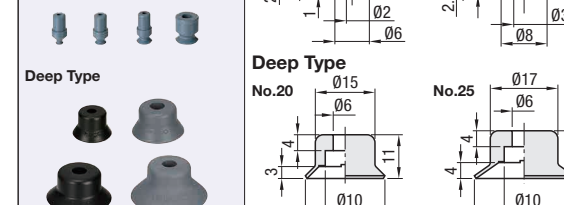
Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	Mass g	Spring Max. Load (N)	Unit Price		
MVPJ (Small)	N	S	0.7	0.7	0.7	0.7	1	1	1	1	1	1 - 20 pc(s)	
			1	1	1	1	1	1	1	1	1		
			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		1.5
			2	2	2	2	2	2	2	2	2		2
			3	3	3	3	3	3	3	3	3		3
			4	4	4	4	4	4	4	4	4		4

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	Mass g	Spring Max. Load (N)	Unit Price	
MVPJ (Small)	N	S	20	6	20	11	38.7	16.6	18	17	4	1 - 30 pc(s)
			25	6	25	12	39.7	17.6	18	17	4	
			30	6	30	14	41.7	19.6	18	17	4	
			40	6	40	17.5	45.2	23.1	18	17	4	

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Type	Accessory	Pad Shape	Pad Material
MVPJN	VPJN	Standard	Nitrile Rubber
MVPJT	VPJT	Standard	Conductive Silicon Rubber
MVPJF	VPJF	Standard	Fluoro Rubber
MVPJN	VPJN	Deep	Nitrile Rubber
MVPJT	VPJT	Deep	Conductive Silicon Rubber
MVPJF	VPJF	Deep	Fluoro Rubber



Dimensions in ( ) are for Ø2 - 4.  
 Fitting Material: Brass Surface Treatment: Electroless Nickel Plating

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	Mass g	Spring Max. Load (N)	Unit Price		
MVPJ (Small)	N	S	2	2	2	2	2	2	2	2	2	1 - 30 pc(s)	
			3	3	3	3	3	3	3	3	3		
			4	4	4	4	4	4	4	4	4		4
			6	6	6	6	6	6	6	6	6		6
			8	8	8	8	8	8	8	8	8		8
			10	10	10	10	10	10	10	10	10		10
			15	15	15	15	15	15	15	15	15		15
			20	20	20	20	20	20	20	20	20		20

Part Number	Type	Pad Material	No.	D	d	L1	B	L2	Mass g	Spring Max. Load (N)	Unit Price	
MVPJ (Small)	N	S	20	6	20	11	61.1	38	20.1	18.5	51.5	7.0-12.6
			25	6	25	12	62.1	39	20.1	18.5		