Industry-specific applications

Types of use



Suction Cups with 4.5 Bellows

The MVP series suction cups are designed to the handling of raw food or flexible packaging at high speeds. The thin gripping lip allows to fit with the product to be handled and the 4.5 bellows give a swivelling effect to ensure the positioning of the suction cup when the product is held. Furthermore, once in grip, the rigidity of the compressed bellows ensures a very good prehension of the object and avoids the swing effect.

- Thin and flexible shaped lip for a perfect handling at high production rates
- 4.5 bellows
- Ø 20-30-40-50 mm
- Available in 3 materials:
 - Blue Silicone (SIBL5) to meet FDA and CE 1935/2004 standards.
 - Detectable Blue Silicone (SI5BD), load with 30% of detectable particles and meets the CE 1935/2004 standards.
 - Nitrile (NBR)
- Fittings available with or without inner filtering grid.
- Male fittings (IM) equiped with 0-ring sealing

Applications

The high flexibilty of the MVP suction cups lips allows to handle at great speed all kind of materials or foodstuff: Flowpack, Doypack, pouch bags,thermoformed trays, raw products (sausage,fresh fish, biscuits,chocolates)...

Materials

NBR Nitrile

SIBL5 Blue silicone 50 shore A

SI5BD Blue silicone 50 shore A detectable

Suction Cup Characteristics									
\triangle	Ø (mm)	(cm³)	会(lbf)	NBR	SIBL5	SI5BD			
MVP204.5	20	3.2	0.97	MVP204.5NBR	MVP204.5SIBL5	MVP204.5SI5BD(*)			
MVP304.5	30	11.6	2.81	MVP304.5NBR	MVP304.5SIBL5	MVP304.5SI5BD(*)			
MVP404.5	40	25.3	3.71	MVP404.5NBR	MVP404.5SIBL5	MVP404.5SI5BD(*)			
MVP504.5	50	50.4	6.25	MVP504.5NBR	MVP504.5SIBL5	MVP504.5SI5BD(*)			

(1) Actual holding force of the suction cup at a vacuum of 65% on flat and smooth surface and safety factor of 2 included.

(*) On request

Choice of Fittings									
₹ (Ø)	G1/8"-M	G1/8"-F	G1/4"-M	G3/8"-M					
20		-	-	-					
30	-								
40	-		•						
50	-	-							

■ Standard available configurations (suction cup + fitting) refer to page 3/11

Fitting: M = male F = female

Type of Assembly



Version E: Pressed fitting



Specify the part number e.g.: MVP304.5SIBL5 Please refer to the characteristics table above





Suction Cups with 4.5 Bellows





References «Suction Cup + Fitting»

		E I	
		G1,	/8"-M
E		Fitting with filter	Fitting without filter
_	MVP204.5NBR	MVP204.5NBRIM18F	MVP204.5NBRIM18
Ø 20	MVP204.5SIBL5	MVP204.5SIBL5IM18F	MVP204.5SIBL5IM18
a	MVP204.5SI5BD	on request	on request

MVP304.5NBR
MVP304.5SIBL5
MVP304.5SI5BD
MVP404.5NBR
MVP404.5SIBL5
MVP404.5SI5BD

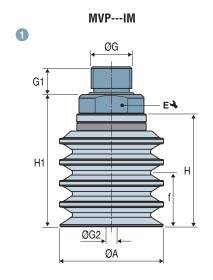
E						
G1	/8"-F	G1,	/4"-M	G3/8"-M		
Fitting with filter	Fitting without filter	Fitting with filter	Fitting without filter	Fitting with filter	Fitting without filter	
MVP304.5NBRIF18F	MVP304.5NBRIF18	MVP304.5NBRIM14F	MVP304.5NBRIM14	MVP304.5NBRIM38F	MVP304.5NBRIM38	
MVP304.5SIBL5IF18F	MVP304.5SIBL5IF18	MVP304.5SIBL5IM14F	MVP304.5SIBL5IM14	MVP304.5SIBL5IM38F	MVP304.5SIBL5IM38	
on request	on request	on request	on request	on request	on request	
MVP404.5NBRIF18F	MVP404.5NBRIF18	MVP404.5NBRIM14F	MVP404.5NBRIM14	MVP404.5NBRIM38F	MVP404.5NBRIM38	
MVP404.5SIBL5IF18F	MVP404.5SIBL5IF18	MVP404.5SIBL5IM14F	MVP404.5SIBL5IM14	MVP404.5SIBL5IM38F	MVP404.5SIBL5IM38	
on request	on request	on request	on request	on request	on request	

MVP504.5NBR MVP504.5SIBL5 MVP504.5SI5BD

	G1,	/4"-M	G3/8"-M					
	Fitting with filter	Fitting without filter	Fitting with filter	Fitting without filter				
	MVP504.5NBRIM14F	MVP504.5NBRIM14	MVP504.5NBRIM38F	MVP504.5NBRIM38				
i	MVP504.5SIBL5IM14F	MVP504.5SIBL5IM14	MVP504.5SIBL5IM38F	MVP504.5SIBL5IM38				
)	on request	on request	on request	on request				

Dimensions «Suction Cup + Fitting»

F TEE



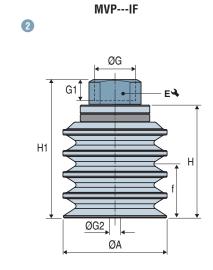


	Diagram	ØA	f ⁽¹⁾	Н	H1	ØG	G1	ØG2 (2)	E 🍑	<u></u> (g)
MVP204.5IM18-	1	20	13.2	22.3	27.3	G1/8"-M	7	4	13	5.3
MVP304.5IF18-	2	30	20.2	32.5	40.5	G1/8"-F	6.6	5	17	11.5
MVP304.5IM14-	1	30	20.2	32.5	38.5	G1/4"-M	9	5	19	12.4
MVP304.5IM38-	1	30	20.2	32.5	38.5	G3/8"-M	10	5	22	17
MVP404.5IF18-	2	40	27	41.2	49.2	G1/8"-F	6.6	5	17	18.8
MVP404.5IM14-	1	40	27	41.2	47.2	G1/4"-M	9	5	19	19.7
MVP404.5IM38-	1	40	27	41.2	47.2	G3/8"-M	10	5	22	24.3
MVP504.5IM14-	1	50	32.8	52.1	58.1	G1/4"-M	9	6	22	35.6
MVP504.5IM38-	1	50	32.8	52.1	58.1	G3/8"-M	10	6	23.9	38.6

Note: All dimensions are in mm.

(1) f = Deflection of the suction cup.

(2) \emptyset G2 = \emptyset internal orifice of the fitting.



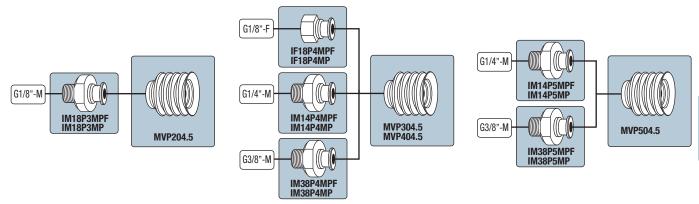


Suction Cups with 4.5 Bellows

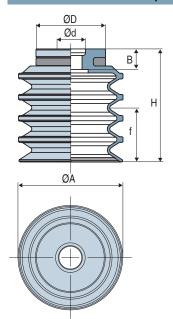
Assembly Diagrams and dimensions



Assembly Diagrams



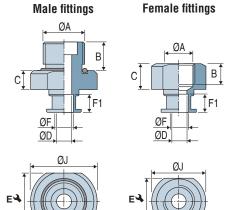
Dimensions Suction Cups



≙	ØA	Н	Ød	ØD	f (2)	В	<u></u> (g)
MVP204.5	20	22.3	6	14	13.2	4.8	2.1
MVP304.5	30	32.5	6.5	20	20.2	6.9	5.4
MVP404.5	40	41.2	6.5	19.5	27	6.9	12.7
MVP504.5	50	52.1	6.5	27	32.8	9.9	23.5

(2) f = Deflection of the suction cup.

Dimensions Fittings



Fitting with stainless steel filter 200 µm	Fitting without filter	ØA	В	C	ØD	ΕÅ	ØJ	ØF	F1	Materials Fitting*	(g)
IM18P3MPF	IM18P3MP	G1/8"-M	7	5	4	13	15	5	4.7	Aluminum	3.2
IF18P4MPF	IF18P4MP	G1/8"-F	6.6	8	5	17	20	6	5.7	Aluminum	6.1
IM14P4MPF	IM14P4MP	G1/4"-M	9	6	5	19	21	6	5.7	Aluminum	7
IM14P5MPF	IM14P5MP	G1/4"-M	9	6	6	22	28	10	8.7	Aluminum	12.1
IM38P4MPF	IM38P4MP	G3/8"-M	10	6	5	22	24	6	5.7	Aluminum	11.6
IM38P5MPF	IM38P5MP	G3/8"-M	10	6	6	23.9	28	10	8.7	Aluminum	15.1

^{*}Male fittings (IM) equiped with 0-ring sealing

The values represent the average characteristics of our products. Note: All dimensions are in mm

