## MVP

## 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 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\xi\}$ | 0 (mm) | $8\left(\mathrm{~cm}^{3}\right)$ | 念 (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


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

Suction Cups with 4.5 Bellows
References and Dimensions - «Suction Cup + Fitting»

References «Suction Cup + Fitting»


| 틑 | MVP304.5NBR |
| :---: | :---: |
| ¢ | MVP304.5SIBL5 |
| , | MVP304.5SI5BD |
| - | MVP404.5NBR |
| Q | MVP404.5SIBL5 |
|  | MVP404.5SI5BD |


| 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 |


|  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Dimensions «Suction Cup + Fitting»



|  | Diagram | ØA | $\mathrm{f}^{(1)}$ | H | H1 | ØG | G1 | ØG2 ${ }^{(2)}$ | E4 | ${ }^{0}(\mathrm{~g})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MVP204.5-.-IM18- | 1 | 20 | 13.2 | 22.3 | 27.3 | G1/8"-M | 7 | 4 | 13 | 5.3 |
| MVP304.5--.IF18- | 2 | 30 | 20.2 | 32.5 | 40.5 | G1/8"-F | 6.6 | 5 | 17 | 11.5 |
| MVP304.5-.-IM14- | 1 | 30 | 20.2 | 32.5 | 38.5 | G1/4"-M | 9 | 5 | 19 | 12.4 |
| MVP304.5-..IM38- | 1 | 30 | 20.2 | 32.5 | 38.5 | G3/8"-M | 10 | 5 | 22 | 17 |
| MVP404.5--.IF18- | 2 | 40 | 27 | 41.2 | 49.2 | G1/8"-F | 6.6 | 5 | 17 | 18.8 |
| MVP404.5-..IM14- | 1 | 40 | 27 | 41.2 | 47.2 | G1/4"-M | 9 | 5 | 19 | 19.7 |
| MVP404.5-.-IM38- | 1 | 40 | 27 | 41.2 | 47.2 | G3/8"-M | 10 | 5 | 22 | 24.3 |
| MVP504.5-..IM14- | 1 | 50 | 32.8 | 52.1 | 58.1 | G1/4"-M | 9 | 6 | 22 | 35.6 |
| MVP504.5-..IM38- | 1 | 50 | 32.8 | 52.1 | 58.1 | G3/8"-M | 10 | 6 | 23.9 | 38.6 |

Note: All dimensions are in mm.

[^0]Suction Cups with 4.5 Bellows
Assembly Diagrams and dimensions


## Assembly Diagrams



Dimensions Suction Cups


| そ\} | ØA | H | Ød | ØD | $\mathbf{f}^{(2)}$ | B | O (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 <br> stainless steel <br> filter 200 $\boldsymbol{\mu \mathrm { m }}$ | Fitting <br> without <br> filter | ØA | B | C | ØD | E \& | ØJ | ØF | F1 | Materials <br> Fitting* | O <br> $\mathbf{( g )}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 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 |
| IM38PPMPF | 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


[^0]:    (1) $f=$ Deflection of the suction cup. (2) $\emptyset G 2=\varnothing$ internal orifice of the fitting

