

# SUCTION CUPS / Multi Bellows & Flat

## VBF25



### Features and Strengths

Highly fast operation in automobile, glass and wooden panel industry  
 Excellent for oily surface products and convex products  
 Innovatively designed for slightly curved and flat material



### Examples of use

Metal Sheets, Car panels, Press metal sheets,  
 Glass, Carton boxes, Electronic goods, Carton boxes, Furniture, Wood panel

### Recommended Lifting Force (Max.)

| Model | Volume (cm <sup>3</sup> ) | Lifting Force (Kg) - Perpendicular |          |          | Lifting Force (Kg) - Parallel |          |          |
|-------|---------------------------|------------------------------------|----------|----------|-------------------------------|----------|----------|
|       |                           | - 20 kPa                           | - 60 kPa | - 90 kPa | - 20 kPa                      | - 60 kPa | - 90 kPa |
| VBF25 | 2.6                       | 1.10                               | 3.20     | 3.80     | 0.61                          | 1.37     | 1.89     |

※ The lifting force above does not include safety factor

### Material Specifications

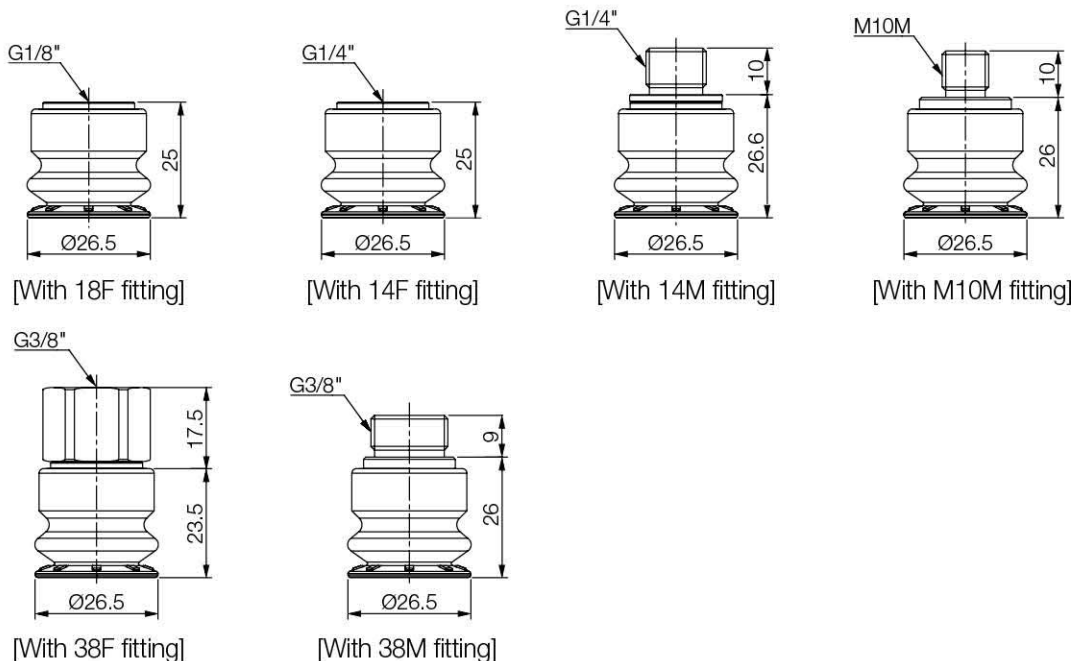
| Material     | Hardness Shore (°) | Color              | Temperature (°C) |
|--------------|--------------------|--------------------|------------------|
| NBR          | 60                 | Blue               | -20~110          |
| Silicone     | 55                 | Red                | -70~200          |
| Polyurethane | 60                 | Translucent Orange | 0~60             |

### Material Resistance

| Description     | NBR       | Silicone  | Polyurethane |
|-----------------|-----------|-----------|--------------|
| Wear Resistance | Excellent | Good      | Excellent    |
| Oil             | Excellent | Poor      | Excellent    |
| Weather / Ozone | Fair      | Excellent | Excellent    |
| Alcohol         | Good      | Good      | Fair         |
| Acid            | Fair      | Poor      | Fair         |

### Dimension

[ Unit : mm ]



## Build an Ordering No.



: Pre-mounted fitting

| 1. Suction cup | Description   | Weight (g) | Symbol        |
|----------------|---|------------|---------------|
|                | Bellows-flat suction cup, 25mm diameter, Nitrile (NBR), M10xP1.5 male fitting | 19.73      | VBF25-N-M10M  |
|                | Bellows-flat suction cup, 25mm diameter, Silicone, M10xP1.5 male fitting      | 18.51      | VBF25-S-M10M  |
|                | Bellows-flat suction cup, 25mm diameter, Polyurethane, M10xP1.5 male fitting  | 19.87      | VBF25-PU-M10M |
|                | Bellows-flat suction cup, 25mm diameter, Nitrile (NBR), G1/8 female fitting   | 13.41      | VBF25-N-18F   |
|                | Bellows-flat suction cup, 25mm diameter, Silicone, G1/8 female fitting        | 12.19      | VBF25-S-18F   |
|                | Bellows-flat suction cup, 25mm diameter, Polyurethane, G1/8 female fitting    | 14         | VBF25-PU-18F  |
|                | Bellows-flat suction cup, 25mm diameter, Nitrile (NBR), G1/4 female fitting   | 11.93      | VBF25-N-14F   |
|                | Bellows-flat suction cup, 25mm diameter, Silicone, G1/4 female fitting        | 10.84      | VBF25-S-14F   |
|                | Bellows-flat suction cup, 25mm diameter, Polyurethane, G1/4 female fitting    | 14         | VBF25-PU-14F  |
|                | Bellows-flat suction cup, 25mm diameter, Nitrile (NBR), G1/4 male fitting     | 17.35      | VBF25-N-14M   |
|                | Bellows-flat suction cup, 25mm diameter, Silicone, G1/4 male fitting          | 15.77      | VBF25-S-14M   |
|                | Bellows-flat suction cup, 25mm diameter, Polyurethane, G1/4 male fitting      | 17.49      | VBF25-PU-14M  |
|                | Bellows-flat suction cup, 25mm diameter, Nitrile (NBR), G3/8 female fitting   | 21.45      | VBF25-N-38F   |
|                | Bellows-flat suction cup, 25mm diameter, Silicone, G3/8 female fitting        | 19.5       | VBF25-S-38F   |
|                | Bellows-flat suction cup, 25mm diameter, Polyurethane, G3/8 female fitting    | 21.59      | VBF25-PU-38F  |
|                | Bellows-flat suction cup, 25mm diameter, Nitrile (NBR), G3/8 male fitting     | 19.84      | VBF25-N-38M   |
|                | Bellows-flat suction cup, 25mm diameter, Silicone, G3/8 male fitting          | 18.03      | VBF25-S-38M   |
|                | Bellows-flat suction cup, 25mm diameter, Polyurethane, G3/8 male fitting      | 19.98      | VBF25-PU-38M  |