

# SUCTION CUPS / Single Bellows

## VB5

### Features and Strengths

Suitable for smaller objects  
Compensating for a difference in level  
Various materials for a wide range of applications

### Examples of use

Cardboards, Veneer Sheets, Packaging Materials,  
Plastic Sheets, Thin Film Sheets



### Recommended Lifting Force (Max.)

Model	Volume (cm <sup>3</sup> )	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
VB5	0.05	0.03	0.08	0.10

※ The lifting force above does not include safety factor

### Material Specifications

Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free	75	Black	-10~100

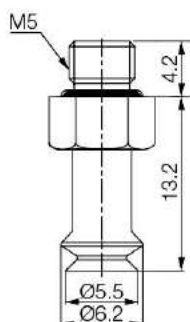
※ For additional material, see page 32~33

### Material Resistance

Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

### Dimension

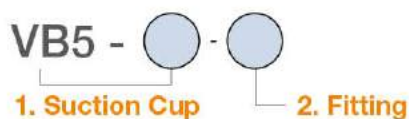
[ Unit : mm ]



[ With M5M fitting ]



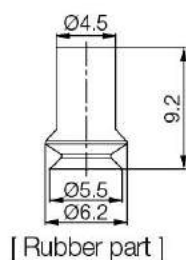
## Build an Ordering No.



1. Suction cup	Description	Symbol
	Single-bellow suction cup, 5mm diameter, Nitrile (NBR)	VB5-N
	Single-bellow suction cup, 5mm diameter, Silicone	VB5-S
	Single-bellow suction cup, 5mm diameter, White silicone	VB5-WS
	Single-bellow suction cup, 5mm diameter, White silicone (FDA)	VB5-WS(FDA)
	Single-bellow suction cup, 5mm diameter, High temperature silicone	VB5-HS
	Single-bellow suction cup, 5mm diameter, Conductive silicone	VB5-CS
	Single-bellow suction cup, 5mm diameter, Urethane	VB5-U
	Single-bellow suction cup, 5mm diameter, Mark free	VB5-A
2. Fitting	Description	Symbol
	No fitting	Blank
	Fitting, M5 male	M5M

## Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VB5-N	Single-bellow suction cup, 5mm diameter, Nitrile (NBR)	0.16	Black
VB5-S	Single-bellow suction cup, 5mm diameter, Silicone	0.15	Red
VB5-WS	Single-bellow suction cup, 5mm diameter, White silicone	0.15	Translucent White
VB5-WS(FDA)	Single-bellow suction cup, 5mm diameter, White silicone(FDA)	0.15	Translucent White
VB5-HS	Single-bellow suction cup, 5mm diameter, High temperature silicone	0.15	Blue
VB5-CS	Single-bellow suction cup, 5mm diameter, Conductive silicone	0.15	Smoky Black
VB5-U	Single-bellow suction cup, 5mm diameter, Urethane	0.17	Dark Green
VB5-A	Single-bellow suction cup, 5mm diameter, Mark free	0.16	Black



[ Unit : mm ]

## Spare Parts – Fitting

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3101	M5M	M5 male	1.84