

# SUCTION CUPS / Multi Bellows & Flat

## VBF80

### 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
VBF80	59.50	11.92	21.68	24.72	9.12	17.12	22.56

※ The lifting force above does not include safety factor

### Material Specifications

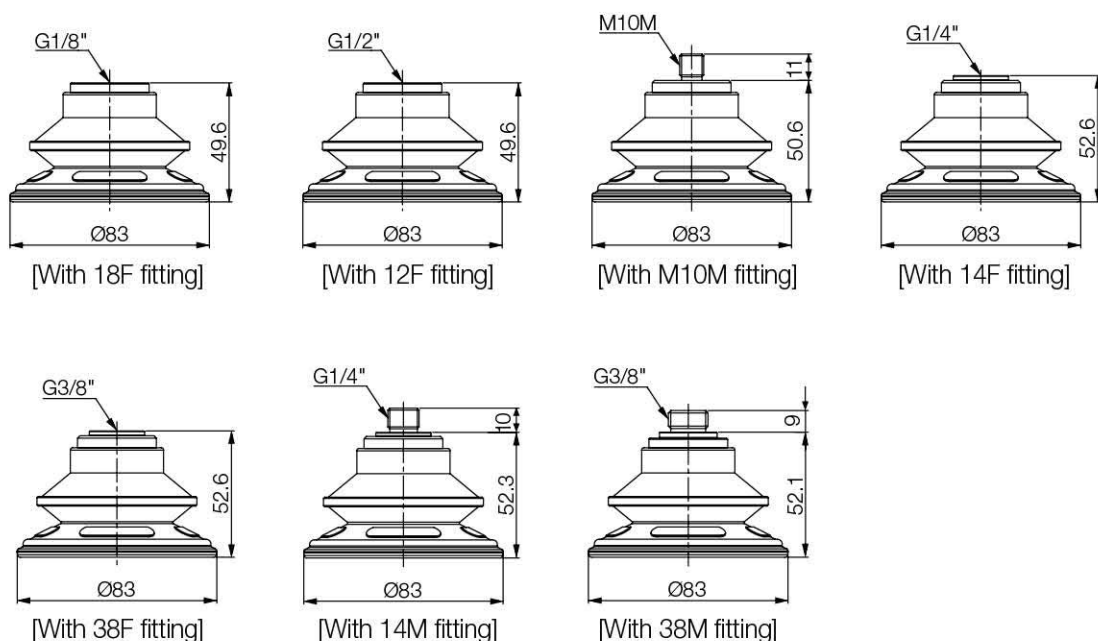
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Blue	-20~110
Silicone	55	Red	-70~200
Polyurethane	60	Translucent Orange	0~60

### 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, 80mm diameter, Nitrile (NBR), M10xP1.5 male fitting	76.84	VBF80-N-M10M
	Bellows-flat suction cup, 80mm diameter, Silicone, M10xP1.5 male fitting	77.65	VBF80-S-M10M
	Bellows-flat suction cup, 80mm diameter, Polyurethane, M10xP1.5 male fitting	83.42	VBF80-PU-M10M
	Bellows-flat suction cup, 80mm diameter, Nitrile (NBR), G1/8 female fitting	83.03	VBF80-N-18F
	Bellows-flat suction cup, 80mm diameter, Silicone, G1/8 female fitting	76.47	VBF80-S-18F
	Bellows-flat suction cup, 80mm diameter, Polyurethane, G1/8 female fitting	80.74	VBF80-PU-18F
	Bellows-flat suction cup, 80mm diameter, Nitrile (NBR), G1/4 female fitting	77.94	VBF80-N-14F
	Bellows-flat suction cup, 80mm diameter, Silicone, G1/4 female fitting	74.39	VBF80-S-14F
	Bellows-flat suction cup, 80mm diameter, Polyurethane, G1/4 female fitting	77.81	VBF80-PU-14F
	Bellows-flat suction cup, 80mm diameter, Nitrile (NBR), G1/4 male fitting	83.38	VBF80-N-14M
	Bellows-flat suction cup, 80mm diameter, Silicone, G1/4 male fitting	79.13	VBF80-S-14M
	Bellows-flat suction cup, 80mm diameter, Polyurethane, G1/4 male fitting	83.25	VBF80-PU-14M
	Bellows-flat suction cup, 80mm diameter, Nitrile (NBR), G3/8 female fitting	74.65	VBF80-N-38F
	Bellows-flat suction cup, 80mm diameter, Silicone, G3/8 female fitting	80	VBF80-S-38F
	Bellows-flat suction cup, 80mm diameter, Polyurethane, G3/8 female fitting	83.36	VBF80-PU-38F
	Bellows-flat suction cup, 80mm diameter, Nitrile (NBR), G3/8 male fitting	78.54	VBF80-N-38M
	Bellows-flat suction cup, 80mm diameter, Silicone, G3/8 male fitting	83.23	VBF80-S-38M
	Bellows-flat suction cup, 80mm diameter, Polyurethane, G3/8 male fitting	72.5	VBF80-PU-38M
	Bellows-flat suction cup, 80mm diameter, Nitrile (NBR), G1/2 female fitting	68.03	VBF80-N-12F
	Bellows-flat suction cup, 80mm diameter, Silicone, G1/2 female fitting	72.37	VBF80-S-12F
	Bellows-flat suction cup, 80mm diameter, Polyurethane, G1/2 female fitting	71.87	VBF80-PU-12F