

# SUCTION CUPS / Multi Bellows & Flat

## VBF60



### 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
VBF60	22.00	8.94	16.26	18.54	6.84	12.84	16.92

※ The lifting force above does not include safety factor

### Material Specifications

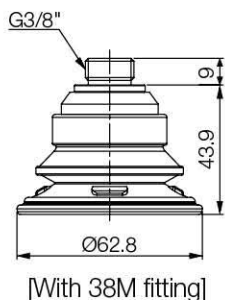
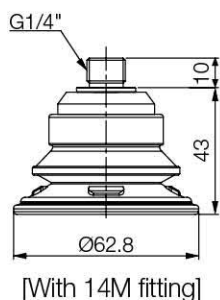
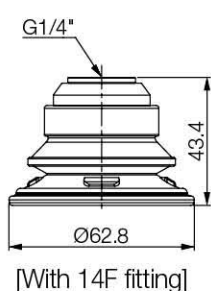
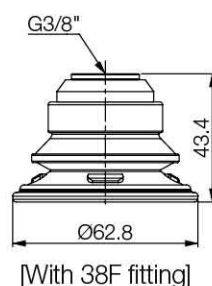
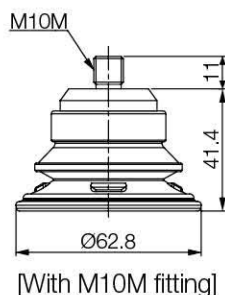
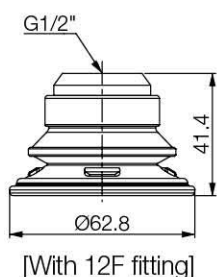
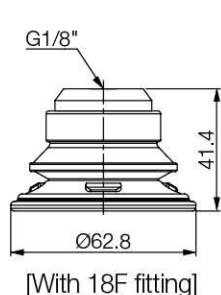
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Blue	-20~110
Silicone	55	Red	-70~200
Polyurethane	60	Translucent Orange	0~60

### 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, 60mm diameter, Nitrile (NBR), M10xP1.5 male fitting	55.71	VBF60-N-M10M
	Bellows-flat suction cup, 60mm diameter, Silicone, M10xP1.5 male fitting	56.3	VBF60-S-M10M
	Bellows-flat suction cup, 60mm diameter, Polyurethane, M10xP1.5 male fitting	60.48	VBF60-PU-M10M
	Bellows-flat suction cup, 60mm diameter, Nitrile (NBR), G1/8 female fitting	57.67	VBF60-N-18F
	Bellows-flat suction cup, 60mm diameter, Silicone, G1/8 female fitting	54.74	VBF60-S-18F
	Bellows-flat suction cup, 60mm diameter, Polyurethane, G1/8 female fitting	57.79	VBF60-PU-18F
	Bellows-flat suction cup, 60mm diameter, Nitrile (NBR), G1/4 female fitting	56.34	VBF60-N-14F
	Bellows-flat suction cup, 60mm diameter, Silicone, G1/4 female fitting	50.99	VBF60-S-14F
	Bellows-flat suction cup, 60mm diameter, Polyurethane, G1/4 female fitting	55.57	VBF60-PU-14F
	Bellows-flat suction cup, 60mm diameter, Nitrile (NBR), G1/4 male fitting	61.61	VBF60-N-14M
	Bellows-flat suction cup, 60mm diameter, Silicone, G1/4 male fitting	58.68	VBF60-S-14M
	Bellows-flat suction cup, 60mm diameter, Polyurethane, G1/4 male fitting	61.73	VBF60-PU-14M
	Bellows-flat suction cup, 60mm diameter, Nitrile (NBR), G3/8 female fitting	55.42	VBF60-N-38F
	Bellows-flat suction cup, 60mm diameter, Silicone, G3/8 female fitting	49.18	VBF60-S-38F
	Bellows-flat suction cup, 60mm diameter, Polyurethane, G3/8 female fitting	52.7	VBF60-PU-38F
	Bellows-flat suction cup, 60mm diameter, Nitrile (NBR), G3/8 male fitting	57.93	VBF60-N-38M
	Bellows-flat suction cup, 60mm diameter, Silicone, G3/8 male fitting	57.56	VBF60-S-38M
	Bellows-flat suction cup, 60mm diameter, Polyurethane, G3/8 male fitting	60.99	VBF60-PU-38M
	Bellows-flat suction cup, 60mm diameter, Nitrile (NBR), G1/2 female fitting	50.9	VBF60-N-12F
	Bellows-flat suction cup, 60mm diameter, Silicone, G1/2 female fitting	47.13	VBF60-S-12F
	Bellows-flat suction cup, 60mm diameter, Polyurethane, G1/2 female fitting	50.13	VBF60-PU-12F

