

SUCTION CUPS / Flat

VF15

Features and Strengths

Specifically designed for flat and curved surface
Available to handle multiple objects with the same suction cup

Examples of use

Metal sheet, Veneer sheets, Glass, Electronic components



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular			Lifting Force (Kg) - Parallel		
		- 20 kPa	- 60 kPa	- 90 kPa	- 20 kPa	- 60 kPa	- 90 kPa
VF15	0.037	0.35	0.86	1.12	0.35	0.66	0.76

※ The lifting force above does not include safety factor

Material Specifications

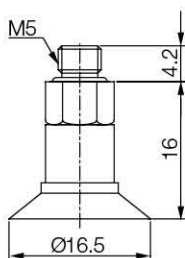
Material	Hardness Shore (°)	Color	Temperature (°C)
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark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

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

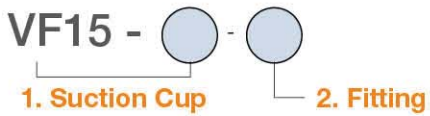
Dimension

[Unit : mm]



[With M5M fitting]

I Build an Ordering No.



1. Suction cup	Description	Symbol
	Flat suction cup, 15mm diameter, Nitrile (NBR)	VF15-N
	Flat suction cup, 15mm diameter, Silicone	VF15-S
	Flat suction cup, 15mm diameter, White silicone	VF15-WS
	Flat suction cup, 15mm diameter, White silicone (FDA)	VF15-WS (FDA)
	Flat suction cup, 15mm diameter, High temperature silicone	VF15-HS
	Flat suction cup, 15mm diameter, Conductive silicone	VF15-CS
	Flat suction cup, 15mm diameter, Urethane	VF15-U
	Flat suction cup, 15mm diameter, Mark free	VF15-A

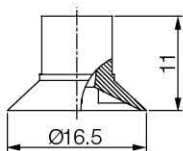
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M
	Efficiency valve, Fitting, M5 male	M5M-EV

I Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VF15-N	Flat suction cup, 15mm diameter, Nitrile (NBR)	0.73	Black
VF15-S	Flat suction cup, 15mm diameter, Silicone	0.65	Red
VF15-WS	Flat suction cup, 15mm diameter, White silicone	0.64	Translucent White
VF15-WS (FDA)	Flat suction cup, 15mm diameter, White silicone (FDA)	0.64	Translucent White
VF15-HS	Flat suction cup, 15mm diameter, High temperature silicone	0.66	Blue
VF15-CS	Flat suction cup, 15mm diameter, Conductive silicone	0.64	Smoky Black
VF15-U	Flat suction cup, 15mm diameter, Urethane	0.70	Dark Green
VF15-A	Flat suction cup, 15mm diameter, Mark free	0.84	Black

I Dimension

[Unit : mm]



[Rubber Part]

I Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3102	M5M	M5 male	2.52
350 010 3102	M5M-EV	Efficiency valve, M5 male	2.63