

# SUCTION CUPS / Universal

## VU15

### Features and Strengths

Excellent performance for flat stable and slightly curved surfaces  
Suitable for concave surface

### Examples of use

Semiconductor chips, Packaging materials, Metal sheet,  
Printing industry, Paper box



### 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
VU15	0.50	0.35	0.85	1.12	0.35	0.55	0.60

※ 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

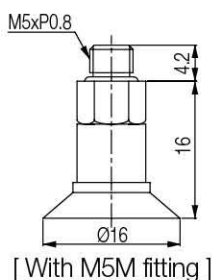
※ For additional material, see page 32~33

### Material Resistance

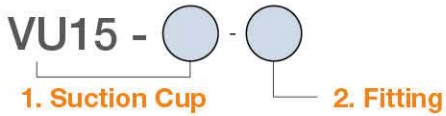
Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol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

### Dimension

[ Unit : mm ]



## Build an Ordering No.

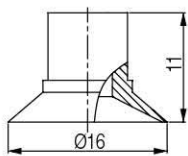


1. Suction cup	Description	Symbol
	Universal suction cup, 15mm diameter, Nitrile (NBR)	VU15-N
	Universal suction cup, 15mm diameter, Silicone	VU15-S
	Universal suction cup, 15mm diameter, White silicone	VU15-WS
	Universal suction cup, 15mm diameter, White silicone (FDA)	VU15-WS (FDA)
	Universal suction cup, 15mm diameter, High temperature silicone	VU15-HS
	Universal suction cup, 15mm diameter, Conductive silicone	VU15-CS
	Universal suction cup, 15mm diameter, Urethane	VU15-U
	Universal suction cup, 15mm diameter, Mark free	VU15-A
2. Fitting	Description	Symbol
	Fitting, M5 male	M5M
	Efficiency valve, Fitting, M5 male	M5M-EV

## Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VU15-N	Universal suction cup, 15mm diameter, Nitrile (NBR)	0.75	Black
VU15-S	Universal suction cup, 15mm diameter, Silicone	0.66	Red
VU15-WS	Universal suction cup, 15mm diameter, White silicone	0.84	Translucent White
VU15-WS (FDA)	Universal suction cup, 15mm diameter, White silicone (FDA)	0.84	Translucent White
VU15-HS	Universal suction cup, 15mm diameter, High temperature silicone	0.65	Blue
VU15-CS	Universal suction cup, 15mm diameter, Conductive silicone	0.68	Smoky Black
VU15-U	Universal suction cup, 15mm diameter, Urethane	0.68	Dark Green
VU15-A	Universal suction cup, 15mm diameter, Mark free	1.03	Black

[ Unit : mm ]



[ Rubber part ]

## 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