

SUCTION CUPS / Deep

VD50



Features and Strengths

Suitable for curved or irregular surfaces.
Excellent performance for round corners and edges

Examples of use

Automobile Roofs and Doors, Metal Sheets, Plastic Sheets,
Veneer Sheets, Shaped Metal panels



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
VD50	13.50	3.57	7.44	9.38	2.14	4.46	5.62

※ 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
Polyurethane	60	Translucent Orange	0~60

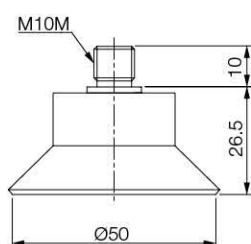
※ For additional material, see page 32~33

Material Resistance

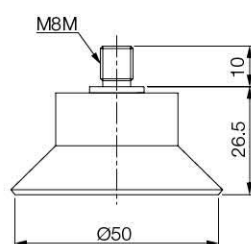
Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free	Polyurethane
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good	Excellent
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent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

Dimension

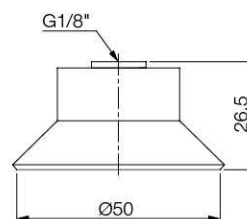
[Unit : mm]



[With M10M fitting]



[With M8M fitting]



[With 18F fitting]



Build an Ordering No.



: Pre-mounted fitting

1. Suction cup	Description	Weight (g)	Symbol
	Deep suction cup, 50mm diameter, Nitrile (NBR), M8 male	21.03	VD50-N-M8M
	Deep suction cup, 50mm diameter, Silicone, M8 male	20.82	VD50-S-M8M
	Deep suction cup, 50mm diameter, White silicone, M8 male	20.42	VD50-WS-M8M
	Deep suction cup, 50mm diameter, White silicone (FDA), M8 male	20.42	VD50-WS-M8M (FDA)
	Deep suction cup, 50mm diameter, High temperature silicone, M8 male	21.74	VD50-HS-M8M
	Deep suction cup, 50mm diameter, Conductive silicone, M8 male	20.82	VD50-CS-M8M
	Deep suction cup, 50mm diameter, Urethane, M8 male	21.78	VD50-U-M8M
	Deep suction cup, 50mm diameter, Mark free, M8 male	22.72	VD50-A-M8M
	Deep suction cup, 50mm diameter, Polyurethane, M8 male	19.2	VD50-PU-M8M
	Deep suction cup, 50mm diameter, Nitrile (NBR), M10 male	21.22	VD50-N-M10M
	Deep suction cup, 50mm diameter, Silicone, M10 male	20.18	VD50-S-M10M
	Deep suction cup, 50mm diameter, White silicone, M10 male	20.61	VD50-WS-M10M
	Deep suction cup, 50mm diameter, White silicone (FDA), M10 male	20.61	VD50-WS-M10M (FDA)
	Deep suction cup, 50mm diameter, High temperature silicone, M10 male	21.94	VD50-HS-M10M
	Deep suction cup, 50mm diameter, Conductive silicone, M10 male	21.01	VD50-CS-M10M
	Deep suction cup, 50mm diameter, Urethane, M10 male	21.98	VD50-U-M10M
	Deep suction cup, 50mm diameter, Mark free, M10 male	22.92	VD50-A-M10M
	Deep suction cup, 50mm diameter, Polyurethane, M10 male	19.37	VD50-PU-M10M
	Deep suction cup, 50mm diameter, Nitrile (NBR), G1/8 female	34.39	VD50-N-18F
	Deep suction cup, 50mm diameter, Silicone, G1/8 female	18.06	VD50-S-18F
	Deep suction cup, 50mm diameter, White silicone, G1/8 female	35.56	VD50-WS-18F
	Deep suction cup, 50mm diameter, White silicone (FDA), G1/8 female	35.56	VD50-WS-18F (FDA)
	Deep suction cup, 50mm diameter, High temperature silicone, G1/8 female	21.56	VD50-HS-18F
	Deep suction cup, 50mm diameter, Conductive silicone, G1/8 female	34.05	VD50-CS-18F
	Deep suction cup, 50mm diameter, Urethane, G1/8 female	19.99	VD50-U-18F
	Deep suction cup, 50mm diameter, Mark free, G1/8 female	20.47	VD50-A-18F
	Deep suction cup, 50mm diameter, Polyurethane, G1/8 female	31.39	VD50-PU-18F