

SUCTION CUPS / Single Bellows

VB17

Features and Strengths

Suitable for smaller objects
Compensating for a difference in level
Various materials for a wide range of applications

Examples of use

Cardboards, Veneer Sheets, Packaging Materials,
Plastic Sheets, Thin Film Sheets



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
VB17	1.50	0.40	0.80	1.00

※ 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

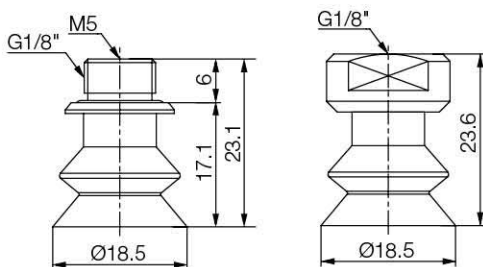
※ For additional material, see page 32~33

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

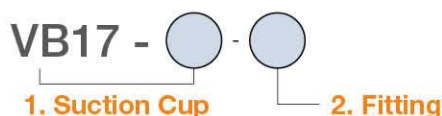
[Unit : mm]



[With M518MF fitting]

[With 18F fitting]

Build an Ordering No.



1. Suction cup	Description	Symbol
	Single-bellow suction cup, 17mm diameter, Nitrile (NBR)	VB17-N
	Single-bellow suction cup, 17mm diameter, Silicone	VB17-S
	Single-bellow suction cup, 17mm diameter, White silicone	VB17-WS
	Single-bellow suction cup, 17mm diameter, White silicone (FDA)	VB17-WS(FDA)
	Single-bellow suction cup, 17mm diameter, High temperature silicone	VB17-HS
	Single-bellow suction cup, 17mm diameter, Conductive silicone	VB17-CS
	Single-bellow suction cup, 17mm diameter, Urethane	VB17-U
	Single-bellow suction cup, 17mm diameter, Mark free	VB17-A

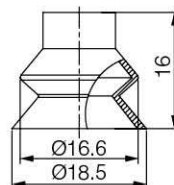
2. Fitting	Description	Symbol
	Fitting, G1/8 male - M5 female	M518MF
	Fitting, G1/8 male - M5 female, Mesh filter	M-M518MF
	Efficiency valve, Fitting, G1/8 male - M5 female	M518MF-EV
	Fitting, G1/8 male - M5 female, Old profile	M518MFO
	Fitting, G1/8 male - M5 female, Old profile, Mesh filter	M-M518MFO
	Efficiency valve, Fitting, G1/8Male - M5 female, Old profile	M518MFO-EV
	Fitting, G1/8 male - M5 female, For silicone material	M518MFB*
	Fitting, G1/8 female	18F
	Fitting, G1/8 female, Mesh filter	M-18F
	Efficiency valve, Fitting, G1/8 female	18F-EV

* M518MFB is available only for Silicone material.

Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VB17-N	Single-bellow suction cup, 17mm diameter, Nitrile (NBR)	1.01	Black
VB17-S	Single-bellow suction cup, 17mm diameter, Silicone	0.91	Red
VB17-WS	Single-bellow suction cup, 17mm diameter, White silicone	0.94	Translucent White
VB17-WS(FDA)	Single-bellow suction cup, 17mm diameter, White silicone (FDA)	0.94	Translucent White
VB17-HS	Single-bellow suction cup, 17mm diameter, High temperature silicone	0.97	Blue
VB17-CS	Single-bellow suction cup, 17mm diameter, Conductive silicone	0.99	Smoky Black
VB17-U	Single-bellow suction cup, 17mm diameter, Urethane	0.96	Dark Green
VB17-A	Single-bellow suction cup, 17mm diameter, Mark free	1.31	Black

[Unit : mm]



[Rubber part]

Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3209	M518MF	G1/8 male-M5 female	1.82
350 000 5209	M518MF-F	G1/8 male-M5 female, Mesh filter	1.92
350 010 4209	M518MF-EV	Efficiency valve, G1/8 male-M5 female	1.94
350 000 1209	M518MFO	G1/8 male-M5 female, Old profile	2.88
350 000 1109	M518MFO-F	G1/8 male-M5 female, Old profile, Mesh filter	2.94
350 010 1209	M518MFO-EV	Efficiency valve, G1/8 male-M5 female, Old profile	2.87
350 000 3239	M518MFB	G1/8 male-M5 female, For silicone material	3.56
350 000 3310	18F	G1/8 female	3.20
350 000 4310	18F-F	G1/8 female, Mesh filter	3.26
350 010 3310	18F-EV	Efficiency valve, G1/8 female	3.31