

SUCTION CUPS / Bellows & Universal

VBU45



Features and Strengths

Widely cover for increased degree of height compensation
Excellent for curved products and separating thin sheet in stocks

Examples of use

Convex surface, Plastic bag, Metal sheets, Plywood,
Carton box, Cement sack



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		
		- 20 kPa	- 60 kPa	- 90 kPa
VBU45	12.50	4.08	7.30	10.00

※ 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
Polyurethane	60	Translucent Orange	0~60

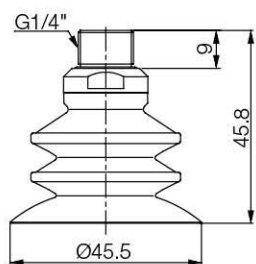
※ For additional material, see page 32~33

Material Resistance

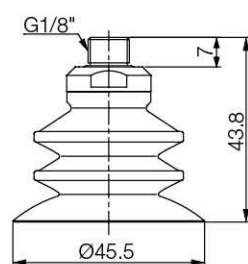
Description	NBR	Silicone	White Silicone	Polyurethane
Wear Resistance	Excellent	Good	Good	Excellent
Oil	Excellent	Poor	Poor	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Fair
Acid	Fair	Poor	Poor	Fair

Dimension

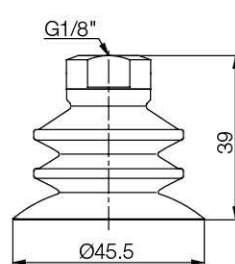
[Unit : mm]



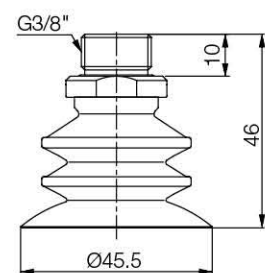
[With 14M fitting]



[With 18M fitting]

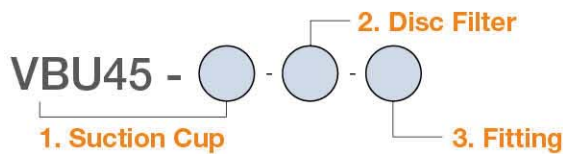


[With 18F fitting]



[With 38M fitting]

I Build an Ordering No.



1. Suction cup	Description	Symbol
	Double bellows – universal suction cup, 45mm diameter, Nitrile (NBR)	VBU45-N
	Double bellows – universal suction cup, 45mm diameter, Silicone	VBU45-S
	Double bellows – universal suction cup, 45mm diameter, White silicone	VBU45-WS
	Double bellows – universal suction cup, 45mm diameter, White silicone (FDA)	VBU45-WS (FDA)
	Double bellows – universal suction cup, 45mm diameter, Polyurethane	VBU45-PU
2. Disc filter	Description	Symbol
	No disc filter	Blank
	Disc filter, Polyethylene	F
3. Fitting	Description	Symbol
	Fitting, G1/8 female	18F
	Fitting, G1/8 female, Mesh filter	M-18F
	Efficiency valve, Fitting, G1/8 female	18F-EV
	Fitting, G1/8 female, For silicone material	18FB*
	Fitting, G1/8 female, Old profile	18FO
	Fitting, G1/8 female, Old profile, Mesh filter	M-18FO
	Fitting, G1/8 male	18M
	Fitting, G1/8 male, Mesh filter	M-18M
	Efficiency valve, Fitting, G1/8 male	18M-EV
	Fitting, G1/4 male	14M
	Fitting, G1/4 male, Mesh filter	M-14M
	Efficiency valve, Fitting, G1/4 male	14M-EV
	Fitting, G3/8 male	38M
	Fitting, G3/8 male, Mesh filter	M-38M
	Efficiency valve, Fitting, G3/8 male	38M-EV
	Fitting, G1/8 female, For silicone material	18FB2
	Fitting, G1/8 female, Mesh filter, For silicone material	M-18FB2
	Efficiency valve, Fitting, G1/8 female, For silicone material	18FB2-EV
	Fitting, G1/8 male, For silicone material	18MB2
	Fitting, G1/8 male, Mesh filter, For silicone material	M-18MB2
	Efficiency valve, Fitting, G1/8 male, For silicone material	18MB2-EV
	Fitting, G1/4 male, For silicone material	14MB2
	Fitting, G1/4 male, Mesh filter, For silicone material	M-14MB2
	Efficiency valve, Fitting, G1/4 male, For silicone material	14MB2-EV
	Fitting, G3/8 male, For silicone material	38MB2
	Fitting, G3/8 male, Mesh filter, For silicone material	M-38MB2
	Efficiency valve, Fitting, G3/8 male, For silicone material	38MB2-EV

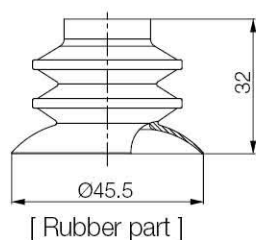
* 18FB is available only for Silicone material.

SUCTION CUPS / Bellows & Universal

I Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VBU45-N	Double bellows – universal suction cup, 45mm diameter, Nitrile (NBR)	7.76	Black
VBU45-S	Double bellows – universal suction cup, 45mm diameter, Silicone	7.17	Red
VBU45-WS	Double bellows – universal suction cup, 45mm diameter, White silicone	7.17	Translucent White
VBU45-WS (FDA)	Double bellows – universal suction cup, 45mm diameter, White silicone (FDA)	7.17	Translucent White
VBU45-PU	Double bellows – universal suction cup, 45mm diameter, Polyurethane	10.39	Translucent Orange

[Unit : mm]



I Spare Parts – Disc Filter

Part No.	Description	Weight (g)
VTFE-BU45	Disc filter, Polyethylene	0.63

I Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3311	18F	G1/8 female	5.68
350 000 4311	18F-F	G1/8 female, Mesh filter	5.73
350 010 3311	18F-EV	Efficiency valve, G1/8 female	5.63
350 000 3331	18FB	G1/8 female, For silicone material	3.7
350 000 2311	18FO	G1/8 female, Old profile	8.24
350 000 4811	18FO-F	G1/8 female, Old profile, Mesh filter	8.41
350 000 2304	18M	G1/8 male	4.93
350 000 4304	18M-F	G1/8 male, Mesh filter	5.04
350 010 2304	18M-EV	Efficiency valve, G1/8 male	5.08
350 000 3404	14M	G1/4 male	5.88
350 000 3804	14M-F	G1/4 male, Mesh filter	5.92
350 010 3404	14M-EV	Efficiency valve, G1/4 male	6.03
350 000 3505	38M	G3/8 male	9.16
350 000 3905	M-38M	G3/8 male, Mesh filter	9.56
350 010 3505	38M-EV	Efficiency valve, G3/8 male	9.72
350 000 3342	18FB2	G1/8 female, For silicone material	5.4
350 000 4342	18FB2-F	G1/8 female, Mesh filter, For silicone material	5.5
350 010 3342	18FB2-EV	Efficiency valve, G1/8 female, For silicone material	5.64
350 000 3341	18MB2	G1/8 male, For silicone material	5.44
350 000 4341	18MB2-F	G1/8 male, Mesh filter, For silicone material	5.33
350 010 3341	18MB2-EV	Efficiency valve, G1/8 male, For silicone material	5.47
350 000 3441	14MB2	G1/4 male, For silicone material	5.88
350 000 3841	14MB2-F	G1/4 male, Mesh filter, For silicone material	6
350 010 3441	14MB2-EV	Efficiency valve, G1/4 male, For silicone material	6.14
350 000 3543	38MB2	G3/8 male, For silicone material	9.16
350 000 3943	M-38MB2	G3/8 male, Mesh filter, For silicone material	9.56
350 010 3543	38MB2-EV	Efficiency valve, G3/8 male, For silicone material	9.44

