

SUCTION CUPS / Single Bellows

VB110

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
VB110	310.00	13.97	35.00	47.04

※ 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

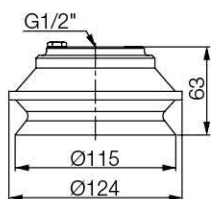
※ For additional material, see page 32~33

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

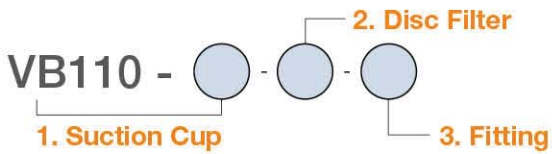
Dimension

[Unit : mm]



[With 12F fitting]

I Build an Ordering No.



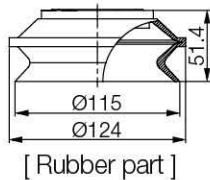
1. Suction cup	Description	Symbol
	Single-bellow suction cup, 110mm diameter, Nitrile (NBR)	VB110-N
	Single-bellow suction cup, 110mm diameter, Silicone	VB110-S
	Single-bellow suction cup, 110mm diameter, White silicone	VB110-WS
	Single-bellow suction cup, 110mm diameter, White silicone (FDA)	VB110-WS(FDA)
	Single-bellow suction cup, 110mm diameter, High temperature silicone	VB110-HS
	Single-bellow suction cup, 110mm diameter, Conductive silicone	VB110-CS
	Single-bellow suction cup, 110mm diameter, Urethane	VB110-U
	Single-bellow suction cup, 110mm diameter, Mark free	VB110-A

2. Disc Filter	Description	Symbol
	No disc filter	Blank
	Disc filter, Polyethylene	F

3. Fitting	Description	Symbol
	Fitting, G1/2 female	12F
	Fitting, G1/2 female, Mesh filter	M-12F

I Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VB110-N	Single-bellow suction cup, 110mm diameter, Nitrile (NBR)	186.15	Black
VB110-S	Single-bellow suction cup, 110mm diameter, Silicone	120.5	Red
VB110-WS	Single-bellow suction cup, 110mm diameter, White silicone	121.12	Translucent White
VB110-WS(FDA)	Single-bellow suction cup, 110mm diameter, White silicone (FDA)	121.12	Translucent White
VB110-HS	Single-bellow suction cup, 110mm diameter, High temperature silicone	121.33	Blue
VB110-CS	Single-bellow suction cup, 110mm diameter, Conductive silicone	121.28	Smoky Black
VB110-U	Single-bellow suction cup, 110mm diameter, Urethane	186.13	Dark Green
VB110-A	Single-bellow suction cup, 110mm diameter, Mark free	134.17	Black



[Unit : mm]

I Spare Parts – Disc Filter

Part No.	Description	Weight (g)
VTFE-B110	Disc filter, Polyethylene	10.15

I Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3614	12F	G1/2 female	103.70
350 000 4014	12F-F	G1/2 female, Mesh filter	104.50