

# SUCTION CUPS / Long Multi Bellows

## VBL50

### Features and Strengths

Widely cover for increased degree of height compensation  
Excellent for fragile products

### Examples of use

Fragile objects, General food products  
Glass, Eggs, Bread



### Recommended Lifting Force (Max.)

Model	Volume (cm <sup>3</sup> )	Lifting Force (Kg) - Perpendicular	
		- 20 kPa	- 60 kPa
VBL50	55.00	2.50	6.00

※ 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

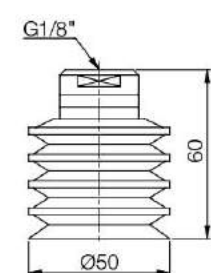
※ For additional material, see page 32~33

### Material Resistance

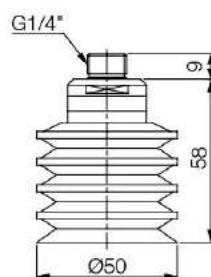
Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol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

### Dimension

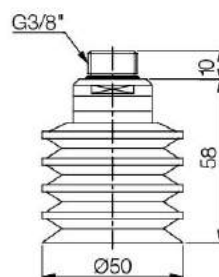
[ Unit : mm ]



[ With 18F fitting ]



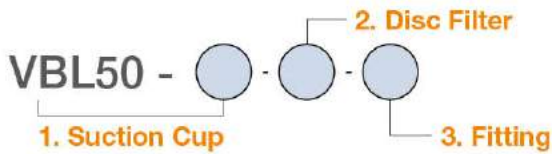
[ With 14M fitting ]



[ With 38M fitting ]



## Build an Ordering No.

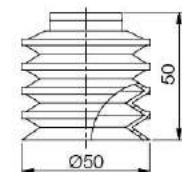


1. Suction cup	Description	Symbol
	Long multi-bellows suction cup, 50mm diameter, Nitrile (NBR)	VBL50-N
	Long multi-bellows suction cup, 50mm diameter, Silicone	VBL50-S
	Long multi-bellows suction cup, 50mm diameter, White silicone	VBL50-WS
	Long multi-bellows suction cup, 50mm diameter, White silicone (FDA)	VBL50-WS(FDA)
	Long multi-bellows suction cup, 50mm diameter, High temperature silicone	VBL50-HS
	Long multi-bellows suction cup, 50mm diameter, Conductive silicone	VBL50-CS
	Long multi-bellows suction cup, 50mm diameter, Urethane	VBL50-U
	Long multi-bellows suction cup, 50mm diameter, Mark free	VBL50-A
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, Old profile	18FO
	Fitting, G1/8 female, Old profile, Mesh filter	M-18FO
	Efficiency valve, Fitting, G1/8 female, Old profile	18FO-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

## Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VBL50-N	Long multi-bellows suction cup, 50mm diameter, Nitrile (NBR)	24.53	Black
VBL50-S	Long multi-bellows suction cup, 50mm diameter, Silicone	21.52	Red
VBL50-WS	Long multi-bellows suction cup, 50mm diameter, White silicone	21.55	Translucent White
VBL50-WS(FDA)	Long multi-bellows suction cup, 50mm diameter, White silicone (FDA)	21.55	Translucent White
VBL50-HS	Long multi-bellows suction cup, 50mm diameter, High temperature silicone	21.51	Blue
VBL50-CS	Long multi-bellows suction cup, 50mm diameter, Conductive silicone	21.59	Smoky Black
VBL50-U	Long multi-bellows suction cup, 50mm diameter, Urethane	26.12	Dark Green
VBL50-A	Long multi-bellows suction cup, 50mm diameter, Mark free	26.56	Black

[ Unit : mm ]



[ Rubber part ]

## Spare Parts – Disc Filter

Part No.	Description	Weight (g)
VTFE-BL50	Disc filter, Polyethylene	1.34

## Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3312	18F	G1/8 female	14.47
350 000 4312	18F-F	G1/8 female, Mesh filter	14.58
350 010 3312	18F-EV	Efficiency valve, G1/8 female	5.81
350 000 1312	18FO	G1/8 female, Old profile	10.12
350 000 4912	18FO-F	G1/8 female, Old profile, Mesh filter	10.2
350 010 1312	18FO-EV	Efficiency valve, G1/8 female, Old profile	10.22
350 000 3405	14M	G1/4 male	14.18
350 000 3805	14M-F	G1/4 male, Mesh filter	14.42
350 010 3405	14M-EV	Efficiency valve, G1/4 male	14.38
350 000 3505	38M	G3/8 male	18.14
350 000 3905	38M-F	G3/8 male, Mesh filter	17.75
350 010 3505	38M-EV	Efficiency valve, G3/8 male	17.53