

SUCTION CUPS / Long Multi Bellows & Oval type

VOBL Series

Features and Strengths

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

Advantages

Particularly good for use on curved surfaces and for separating thin sheets of materials in stacks with long bellows.
Can cope with an increased degree of height compensation and is particularly good for handling fragile objects.
The bellows cup is very good at compensating for a degree of difference in level and curvature of the work piece.

Application



Examples of use

Fragile objects, General food products, Glass, Bread

Available size options

Model	Description
VOBL35x90	Long multi-bellow & oval suction cup, Ø35x90





I Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Lifting Force (Kg) - Perpendicular		Page
		- 20 kPa	- 60 kPa	
VOBL35x90	43.00	2.90	5.00	264

※ The lifting force above does not include safety factor

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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

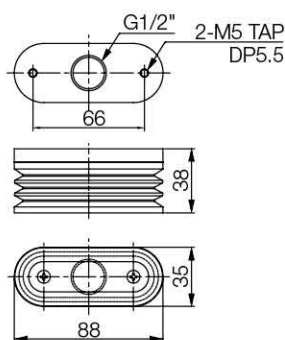
※ For additional material, see page 32~33

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

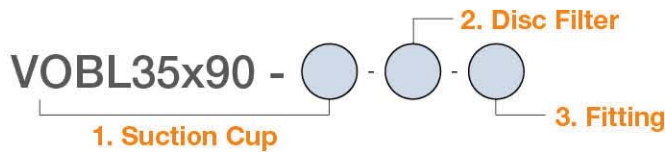
[Unit : mm]



[With 12F fitting]



I Build an Ordering No.

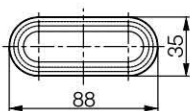


1. Suction cup	Description	Symbol
	Long multi-bellow & oval suction cup, 35x90mm diameter, Nitrile (NBR)	VOBL35x90-N
	Long multi-bellow & oval suction cup, 35x90mm diameter, Silicone	VOBL35x90-S
	Long multi-bellow & oval suction cup, 35x90mm diameter, White silicone	VOBL35x90-WS
	Long multi-bellow & oval suction cup, 35x90mm diameter, White silicone (FDA)	VOBL35x90-WS(FDA)
	Long multi-bellow & oval suction cup, 35x90mm diameter, High temperature silicone	VOBL35x90-HS
	Long multi-bellow & oval suction cup, 35x90mm diameter, Conductive silicone	VOBL35x90-CS
	Long multi-bellow & oval suction cup, 35x90mm diameter, Urethane	VOBL35x90-U
	Long multi-bellow & oval suction cup, 35x90mm diameter, Mark free	VOBL35x90-A
2. Disc Filter	Description	Symbol
	No disc filter	Blank
	Disc filter, Polyethylene	F
3. Fitting	Description	Symbol
	Fitting, G1/2 female	12F

I Spare Parts – Rubber Parts

Part No.	Description	Weight (g)	Color
VOBL35x90-N	Long multi-bellow & oval suction cup, 35x90mm diameter, Nitrile (NBR)	22.2	Black
VOBL35x90-S	Long multi-bellow & oval suction cup, 35x90mm diameter, Silicone	20.71	Red
VOBL35x90-WS	Long multi-bellow & oval suction cup, 35x90mm diameter, White silicone	21.03	Translucent White
VOBL35x90-WS(FDA)	Long multi-bellow & oval suction cup, 35x90mm diameter, White silicone (FDA)	21.03	Translucent White
VOBL35x90-HS	Long multi-bellow & oval suction cup, 35x90mm diameter, High temperature silicone	20.54	Blue
VOBL35x90-CS	Long multi-bellow & oval suction cup, 35x90mm diameter, Conductive silicone	21.23	Smoky Black
VOBL35x90-U	Long multi-bellow & oval suction cup, 35x90mm diameter, Urethane	23.34	Dark Green
VOBL35x90-A	Long multi-bellow & oval suction cup, 35x90mm diameter, Mark free	21.23	Black

[Unit : mm]



[Rubber part]

I Spare Parts – Disc Filter

Part No.	Description	Weight (g)
VTFE-OBL35x90	Disc filter, Polyethylene	2.08

I Spare Parts – Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 000 3660	12F	G1/2 female	18.7