

SUCTION CUPS / Oval Flat Bellow

VOBF30x60

Features and Strengths

Over bellows shaped for handling long, narrow, curved and oily workpieces
The feet inside the cup provide an anti-slide

Examples of use

Automotive panels and doors, Metal sheets, Press line
Carton box, Wood panel, Furniture



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Min. Curvature Radius R(mm)	Lifting Force (Kg) - Perpendicular			Lifting Force (Kg) - Parallel		
			- 20 kPa	- 60 kPa	- 90 kPa	- 20 kPa	- 60 kPa	- 90 kPa
VOBF30x60	11.00	30.00	2.7	7.6	11.2	2.8	7.8	14.5

※ The lifting force above does not include safety factor

Material Specifications

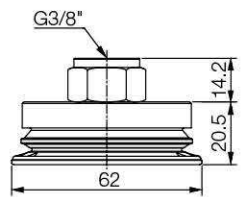
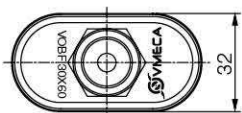
Material	Hardness Shore (°)	Color	Temperature (°C)
Polyurethane	60	Translucent Orange	0~60

Material Resistance

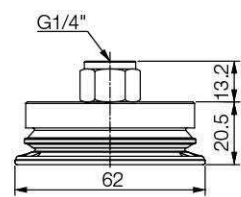
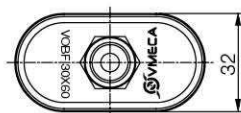
Description	Polyurethane
Wear Resistance	Excellent
Oil	Excellent
Weather / Ozone	Excellent
Alcohol	Fair
Acid	Fair

Dimension

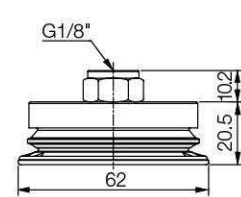
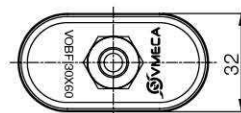
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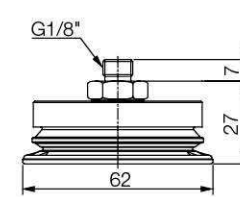
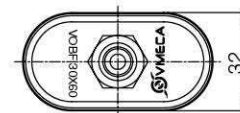
[With 38F fitting]



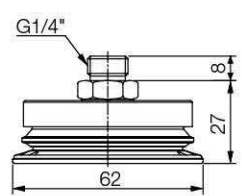
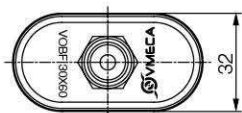
[With 14F fitting]



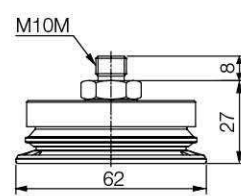
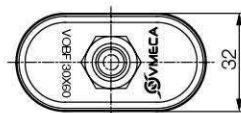
[With 18F fitting]



[With 18M fitting]

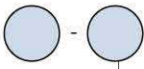


[With 14M fitting]



[With M10M fitting]

I Build an Ordering No.

VOBF30x60 -  : Pre-mounted fitting

1. Suction Cup

1. Suction cup	Description	Weight (g)	Symbol
	Oval flat bellow suction cup, 30x60mm diameter, Polyurethane, M10xP1.5 male Fitting	30.57	VOBF30x60-PU-M10M
	Oval flat bellow suction cup, 30x60mm diameter, Polyurethane, G1/8 female Fitting	32.9	VOBF30x60-PU-18F
	Oval flat bellow suction cup, 30x60mm diameter, Polyurethane, G1/8 male Fitting	30.96	VOBF30x60-PU-18M
	Oval flat bellow suction cup, 30x60mm diameter, Polyurethane, G1/4 female Fitting	28.51	VOBF30x60-PU-14F
	Oval flat bellow suction cup, 30x60mm diameter, Polyurethane, G1/4 male Fitting	32.15	VOBF30x60-PU-14M
	Oval flat bellow suction cup, 30x60mm diameter, Polyurethane, G3/8 female Fitting	31.83	VOBF30x60-PU-38F

SUCTION CUPS / Oval Flat Bellow

VOBF40x80

Features and Strengths

Over bellows shaped for handling long, narrow, curved and oily workpieces
The feet inside the cup provide an anti-slide

Examples of use

Automotive panels and doors, Metal sheets, Press line
Carton box, Wood panel, Furniture



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Min. Curvature Radius R(mm)	Lifting Force (Kg) - Perpendicular			Lifting Force (Kg) - Parallel		
			- 20 kPa	- 60 kPa	- 90 kPa	- 20 kPa	- 60 kPa	- 90 kPa
VOBF40x80	22.50	40.00	4.8	12.8	18.2	5.3	15.6	22.9

※ The lifting force above does not include safety factor

Material Specifications

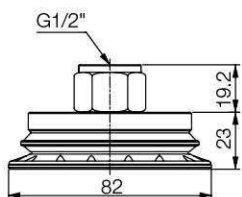
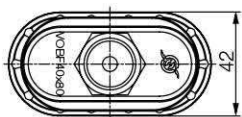
Material	Hardness Shore (°)	Color	Temperature (°C)
Polyurethane	60	Translucent Orange	0~60

Material Resistance

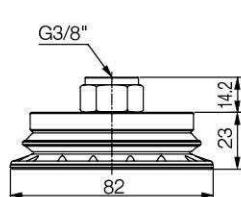
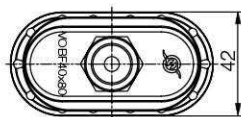
Description	Polyurethane
Wear Resistance	Excellent
Oil	Excellent
Weather / Ozone	Excellent
Alcohol	Fair
Acid	Fair

Dimension

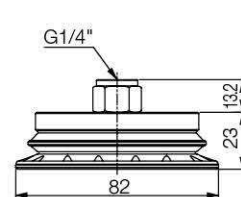
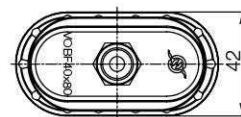
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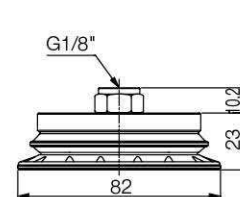
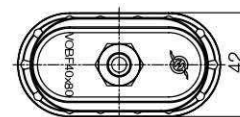
[With 12F fitting]



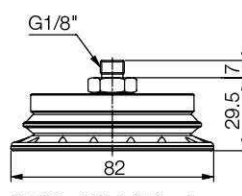
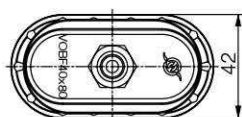
[With 38F fitting]



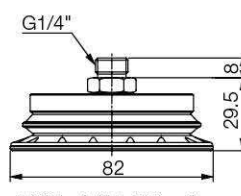
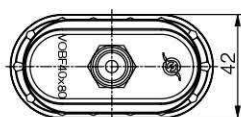
[With 14F fitting]



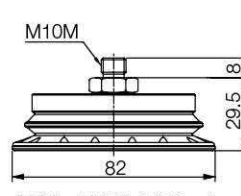
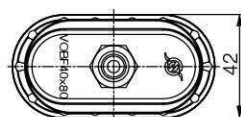
[With 18F fitting]



[With 18M fitting]

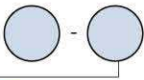


[With 14M fitting]



[With M10M fitting]

I Build an Ordering No.

VOBF40x80 -  : Pre-mounted fitting

1. Suction Cup

1. Suction cup	Description	Weight (g)	Symbol
	Oval flat bellow suction cup, 40x80mm diameter, Polyurethane, M10xP1.5 male Fitting	39.44	VOBF40x80-PU-M10M
	Oval flat bellow suction cup, 40x80mm diameter, Polyurethane, G1/8 female Fitting	41.77	VOBF40x80-PU-18F
	Oval flat bellow suction cup, 40x80mm diameter, Polyurethane, G1/8 male Fitting	39.83	VOBF40x80-PU-18M
	Oval flat bellow suction cup, 40x80mm diameter, Polyurethane, G1/4 female Fitting	37.38	VOBF40x80-PU-14F
	Oval flat bellow suction cup, 40x80mm diameter, Polyurethane, G1/4 male Fitting	41.02	VOBF40x80-PU-14M
	Oval flat bellow suction cup, 40x80mm diameter, Polyurethane, G3/8 female Fitting	40.7	VOBF40x80-PU-38F

SUCTION CUPS / Oval Flat Bellow

VOBF55x110



Features and Strengths

Over bellows shaped for handling long, narrow, curved and oily workpieces
The feet inside the cup provide an anti-slide

Examples of use

Automotive panels and doors, Metal sheets, Press line



Recommended Lifting Force (Max.)

Model	Volume (cm ³)	Min. Curvature Radius R(mm)	Lifting Force (Kg) - Perpendicular			Lifting Force (Kg) - Parallel		
			- 20 kPa	- 60 kPa	- 90 kPa	- 20 kPa	- 60 kPa	- 90 kPa
VOBF55x110	66.50	50.00	8.8	22.3	33.0	13.3	29.1	44.0

※ The lifting force above does not include safety factor

Material Specifications

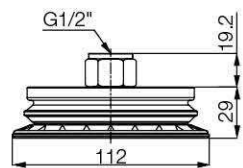
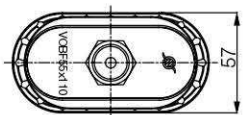
Material	Hardness Shore (°)	Color	Temperature (°C)
Polyurethane	60	Translucent Orange	0~60

Material Resistance

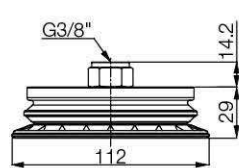
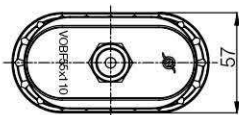
Description	Polyurethane
Wear Resistance	Excellent
Oil	Excellent
Weather / Ozone	Excellent
Alcohol	Fair
Acid	Fair

Dimension

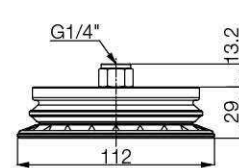
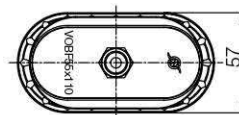
[Unit : mm]



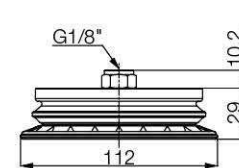
[With 12F fitting]



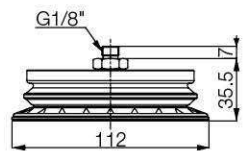
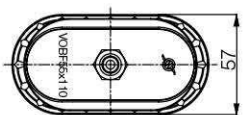
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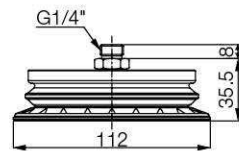
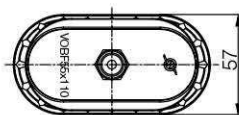
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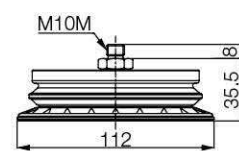
[With 18F fitting]



[With 18M fitting]

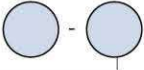


[With 14M fitting]



[With M10M fitting]

Build an Ordering No.

VOBF55x110 -  : Pre-mounted fitting

1. Suction Cup

1. Suction cup	Description	Weight (g)	Symbol
	Oval flat bellow suction cup, 55x110mm diameter, Polyurethane, M10xP1.5 male Fitting	84.8	VOBF55x110-PU-M10M
	Oval flat bellow suction cup, 55x110mm diameter, Polyurethane, G1/8 female Fitting	87.13	VOBF55x110-PU-18F
	Oval flat bellow suction cup, 55x110mm diameter, Polyurethane, G1/8 male Fitting	85.19	VOBF55x110-PU-18M
	Oval flat bellow suction cup, 55x110mm diameter, Polyurethane, G1/4 female Fitting	82.74	VOBF55x110-PU-14F
	Oval flat bellow suction cup, 55x110mm diameter, Polyurethane, G1/4 male Fitting	86.38	VOBF55x110-PU-14M
	Oval flat bellow suction cup, 55x110mm diameter, Polyurethane, G3/8 female Fitting	86.06	VOBF55x110-PU-38F