

# OBF35x90P, OBF50x140P, OBF65x170P



## Features

- Special designed friction cups for oily surfaces, such as sheets in metal forming processes.
- Normal wear on friction cup will not affect the long term shear force performance.
- Best choice if > 0,1g/m<sup>2</sup> press oil is used on the sheet.
- Thanks to the strong grip on oily surfaces, the suction cups can withstand high shear forces, typically 2–4 times more than corresponding conventional suction cups.
- The "OBF" design is suitable for oblong objects with domed and flat surfaces, such as those encountered with body parts in the automotive industry.
- Can handle objects with height differences.
- Fitting option, male G3/8", with a swivel function prior to the locking operation, for easy positioning of the oval cup.
- DURAFLEX® suction cups manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane. The material does not leave any marks on the objects handled.

Model	Material to be handled	to the s	es vertical surface, uum level	Friction/shear forces parallel to the surface, N, at vacuum level		Volume Min. curve radius		Weight
		60 -kPa	90 -kPa	60 -kPa	90 -kPa	cm <sup>3</sup>	mm	g
OBF35x90P	Oily steel plate	108	157	105	151	36	30	77-97
OBF50x140P	Oily steel plate	246	372	271	347	95	50	172–190
OBF65x170P	Oily steel plate	403	502	538	665	200	50	289–310

Lifting forces & Technical data

Values valid for steel sheet with surface finish Ra 1 and 2-3g/m2 of press oil.

### **Material specifications**

Material	Colour	Hardness, °Shore A	Temperature range, °C
Polyurethane, PU55	Orange	55	10–50
Polyurethane, PU60	Green transparent	60	10–50

#### Material resistance

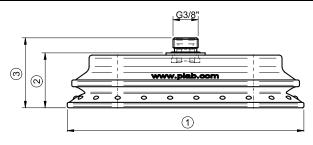
Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Ethanol	Methanol	Oxidation
Excellent	Excellent	Excellent	Fair**	Fair	Fair**	Fair	Poor	Poor

\*\*Please contact Piab.

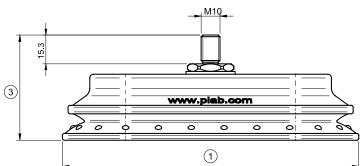


## **Ordering information**

	Complete suction cups	Code	Art. No.
А	Suction cup OBF35x90P Polyurethane 55/60, G3/8" male, with mesh filter	OBF35x90P.5R.G40M	0119121
В	Suction cup OBF35x90P Polyurethane 55/60, G3/8" female	OBF35x90P.5R.G46W	0119123
В	Suction cup OBF35X90P Polyurethane 55/60, 3/8" NPT female	OBF35X90P.5R.N48W	0122287
С	Suction cup OBF35x90P Polyurethane 55/60, M10x1.5 male	OBF35x90P.5R.M10M	0121436
А	Suction cup OBF50x140P Polyurethane 55/60, G3/8" male, with mesh filter	OBF50x140P.5R.G40M	0119125
В	Suction cup OBF50x140P Polyurethane 55/60, G3/8" female	OBF50x140P.5R.G46W	0119127
В	Suction cup OBF50X140P Polyurethane 55/60, 3/8" NPT female	OBF50X140P.5R.N48W	0122288
С	Suction cup OBF50x140P Polyurethane 55/60, M10x1.5 male	OBF50x140P.5R.M10M	0121437
А	Suction cup OBF65x170P Polyurethane 55/60, G3/8" male, with mesh filter	OBF65x170P.5R.G40M	0119129
В	Suction cup OBF65x170P Polyurethane 55/60, G3/8" female	OBF65x170P.5R.G46W	0119131
В	Suction cup OBF65X170P Polyurethane 55/60, 3/8" NPT female	OBF65X170P.5R.N48W	0122289
С	Suction cup OBF65x170P Polyurethane 55/60, M10x1.5 male	OBF65x170P.5R.M10M	0121438



<Picture\_Text changed="2009-02-10 09:37:36">A



<Picture\_Text changed="2009-09-07 11:27:43">C

		G3/8", 3/8" NPT							
$\odot$		w		ab.oc	m				
ļ	000	0	0	0	0	0	0	5	
<u> </u>								-	

<Picture\_Text changed="2009-02-10 09:37:55">B

Measures complete suction cups									
	OBF35x90P			OBF50x140P			OBF65x170P		
	Α	В	С	Α	В	С	Α	В	С
1	50x105	50x105	50x105	67x157	67x157	67x157	82x187	82x187	82x187
2	29	—	—	37	—	—	44	—	—
3	39	42	47.8	47	50	55.8	54	57	62.8
Max. vertical movement, mm	11	11	11	13	13	13	15	15	15
Max. expanding lip, mm	50x109	50x109	50x109	67x162	67x162	67x162	83x191	83x191	83x191