OBF35x90P, OBF50x140P, OBF65x170P





Lifting forces & Technical data

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/m2 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

Model	Material to be handled	Lifting forces to the surface, lbf, at vacuum	,			Min. curve radius	Weight	
		18 -inHg	27 -inHg	18 -inHg	27 -inHg	in ³	in	oz
OBF35x90P	Oily steel plate	24.2 (31.5*)	35.3 (44.5*)	23.6 (28.1*)	33.9 (40.2*)	2.20	1.18	2.72-3.42
OBF50x140P	Oily steel plate	55.3 (73.1*)	83.6 (98.5*)	60.9 (73.7*)	78.0 (93.3*)	5.80	1.97	6.07-6.70
OBF65x170P	Oily steel plate	90.6 (89.2*)	113 (128*)	121 (98.2*)	149 (139*)	12.2	1.97	10.2-10.9
Values valid for steel sheet with surface finish R_a 1 and 2-3g/m ² of press oil. *) Dry metal sheet								

Material specifications			
Material	Color	Hardness, °Shore A	Temperature range, °F
Polyurethane, PU55	Orange	55	50–122
Polyurethane, PU60	Green transparent	60	50–122

Material resistance									
Wear resistance	Oil	Weather & ozone	Hydrolysis	Gasoline	Concentrated acids	Ethanol	Methanol	Oxidation	
Excellent	Excellent	Excellent	Fair	Fair	Fair	Fair	Poor	Poor	

Measurements suction cups with fitting [in]										
	OBF35x90P				OBF50x140P			OBF65x170P		
	Α	В	С	D	Α	В	D	Α	В	D
1	1.97x4.13	1.97x4.13	1.97x4.13	1.97x4.13	2.64x6.18	67x157	2.64x6.18	2.64x6.18	2.64x6.18	2.64x6.18
2	1.14	_	_	_	1.46	_	_	1.73	_	_
3	1.54	1.65	1.89	1.88	1.85	1.97	2.20	2.13	2.24	2.47
Max. vertical movement	0.43	0.43	0.43	0.43	0.51	0.51	0.51	0.59	0.59	0.59
Max. expanding	1.97x4.29	1.97x4.29	1.97x4.29	1.97x4.29	2.64x6.38	2.64x6.38	2.64x6.38	3.27x7.52	3.27x7.52	3.27x7.52

Ord	ering information	
	Suction cups with fitting	Part No.
Α	Suction cup OBF35x90P Polyurethane 55/60, G3/8" male, with mesh filter	OBF35x90P.5R.G40M
В	Suction cup OBF35x90P Polyurethane 55/60, G3/8" female	OBF35x90P.5R.G46W
С	Suction cup OBF35x90P Polyurethane 55/60, G3/8" female, 17 mm thread	OBF35x90P.5R.G62W
В	Suction cup OBF35X90P Polyurethane 55/60, 3/8" NPT female	OBF35X90P.5R.N48W
D	Suction cup OBF35x90P Polyurethane 55/60, M10x1.5 male	OBF35x90P.5R.M10M
Α	Suction cup OBF50x140P Polyurethane 55/60, G3/8" male, with mesh filter	OBF50x140P.5R.G40M
В	Suction cup OBF50x140P Polyurethane 55/60, G3/8" female	OBF50x140P.5R.G46W
В	Suction cup OBF50X140P Polyurethane 55/60, 3/8" NPT female	OBF50X140P.5R.N48W
D	Suction cup OBF50x140P Polyurethane 55/60, M10x1.5 male	OBF50x140P.5R.M10M
Α	Suction cup OBF65x170P Polyurethane 55/60, G3/8" male, with mesh filter	OBF65x170P.5R.G40M
В	Suction cup OBF65x170P Polyurethane 55/60, G3/8" female	OBF65x170P.5R.G46W
В	Suction cup OBF65X170P Polyurethane 55/60, 3/8" NPT female	OBF65X170P.5R.N48W
D	Suction cup OBF65x170P Polyurethane 55/60, M10x1.5 male	OBF65x170P.5R.M10M

