Suction cups/grippers DURAFLEX® Friction



OCF20x80P, OCF30x90P, OCF40x110P



- 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 "OCF" design is suitable for oblong objects with slightly curved or flat surfaces, such as those encountered with body parts in the automotive industry.
- ➤ 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.

Lifting forces & technical data

Model	Material to be handled	Lifting force vertical to the surface, N, at vacuum level		Friction/Shear for the surface, N,	Volume	Min. curve radius	Weight	
		60 -kPa	90 -kPa	60 -kPa	90 -kPa	cm³	mm	g
OCF20x80P	Oily steel plate	82 (75*)	90 (111*)	35 (78*)	48 (112*)	15	20	24
OCF30x90P	Oily steel plate	115 (111*)	159 (157*)	51 (107*)	74 (160*)	17	25	24
OCF40x110P	Oily steel plate	185 (178*)	246 (245*)	54 (167*)	78 (232*)	34	42	55

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

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

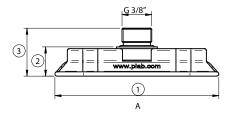
^{**}Please contact Piab.

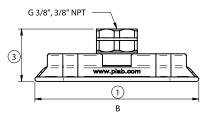
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Ordering information

	Complete suction cups	Code	Art. No.
Α	Suction cup OCF20x80P Polyurethane 55/60, G3/8" male	OCF20x80P.5R.G41M	0121847
В	Suction cup OCF20x80P Polyurethane 55/60, 3/8" NPT female	OCF20x80P.5R.N47W	0121859
В	Suction cup OCF20x80P Polyurethane 55/60, G3/8" female	OCF20x80P.5R.G45W	0122455
Α	Suction cup OCF30x90P Polyurethane 55/60, G3/8" male	OCF30X90P.5R.G41M	0122456
В	Suction cup OCF30x90P Polyurethane 55/60, 3/8" NPT female	OCF30X90P.5R.N47W	0122459
В	Suction cup OCF30x90P Polyurethane 55/60, G3/8" female	OCF30X90P.5R.G45W	0121786
Α	Suction cup OCF40x110P Polyurethane 55/60, G3/8" male	OCF40X110P.5R.G40M	0122457
В	Suction cup OCF40x110P Polyurethane 55/60, 3/8" NPT female	OCF40X110P.5R.N48W	0121865
В	Suction cup OCF40x110P Polyurethane 55/60, G3/8" female	OCF40X110P.5R.G46W	0122860





	OCF20x80P		OCF3	0x90P	OCF40x110P		
	Α	В	Α	В	Α	В	
1	24x84	24x84	32.5x92.5	32.5x92.5	43x113	43x113	
2	17.0	15.5	16.5	16.5	22.5	22.5	
3	27.0	30.1	26.5	29.5	32.5	35.5	
Max. vertical movement, mm	3	3	4	4	5	5	
Max. expanding lip, mm	27x86.2	27x86.2	36x95	36x95	49x118	49x118	