

Oval Concave family (OC)



Suitable for handling long oblong objects with flat or curved surfaces with thick durable lip. Some of these cups have support cleats that prevent thin oblong objects from being disfigured.

LIFTING FORCES

	Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level		
	20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa
OC60×140	132	373	520	186	373	510
OC35×90P	49/49*	117/132*	171/171*	53/68*	112/161*	147/206*
OCF20×80P	—	75/82*	111/90*	—	78/35*	112/48*
OCF30×90P	—	111/115*	157/159*	—	107/51*	160/74*
OCF40×110P	—	178/185*	245/246*	—	167/54*	232/78*

* PU40° / PU60°.






GENERAL SPECIFICATIONS

	Outer diameter, mm	Height, mm	Min. curve radius, mm	Max. vertical movement, mm	Volume, cm ³
OC60×140	138×61	30	200	7.5	52
OC35×90P	94×37	14.5	—	3	20
OCF20×80P	84×24	27–30.1*	20	3	15
OCF30×90P	92.5×32.5	26.5–29.5*	25	4	17
OCF40×110P	113×43	32.5–35.5*	42	5	34

* Height range includes fittings.

AVAILABLE MATERIALS AND INDUSTRIES

An explanation of the industry icons is available on the cover fold out.

Cup	Material						MSF
OC60×140	Nitrile, NBR	●			●	●	●
OC35×90P	PU40°	●	●				
OC35×90P	PU60°	●	●	●	●	●	●
OCF20×80P	PU55°/ PU60°		●				●
OCF30×90P	PU55°/ PU60°		●				●
OCF40×110P	PU55°/ PU60°		●				●

MATERIAL RESISTANCE

For more material information go to page 23.

APPLICATIONS

Table shows typical applications for the suction cup. For more detailed information, please visit piab.com.

	Oily metal sheet	Dry metal sheet	Mark Free
OC60×140		●	
OC35×90P			●
OCF20×80P	●		
OCF30×90P	●		
OCF40×110P	●		

FITTINGS

For a table of possible fittings to use go to pages 198–200, for technical information on all fittings visit piab.com.

ORDERING INFORMATION

Description	Item no.
Suction cup OC60×140 Nitrile, G3/8" female	3350011
Suction cup OC35×90P Polyurethane 40	0115306
Suction cup OC35×90P Polyurethane 40, 3/8" NPSF female	0102375
Suction cup OC35×90P Polyurethane 40, adjustable thread insert G3/8" male with mesh filter	0115307
Suction cup OC35×90P Polyurethane 40, adjustable thread insert G3/8" male with mesh filter	0115311
Suction cup OC35×90P Polyurethane 40, G3/8" female	0102374
Suction cup OC35×90P Polyurethane 60, 3/8" NPSF female	0103303
Suction cup OC35×90P Polyurethane 60, adjustable thread insert G3/8" male with mesh filter	0115313
Suction cup OC35×90P Polyurethane 60, G3/8" female	0103305
Suction cup OCF20×50 Polyurethane 60, G1/4" female	0207730
Suction cup OCF20×50 Polyurethane 60, G1/4" male	0207731
Suction cup OCF20×50 Polyurethane 60, G3/8" female	0207727
Suction cup OCF20×50 Polyurethane 60, G3/8" female plastic	0207618
Suction cup OCF20×50 Polyurethane 60, G3/8" female, 17 mm thread	0209497
Suction cup OCF20×50 Polyurethane 60, G3/8" male	0207728
Suction cup OCF20×50 Polyurethane 60, M10×1.5 male	0207732
Suction cup OCF20×50 Polyurethane 60, NPT3/8" female	0207729
Suction cup OCF20×50 Polyurethane 60, T-slot with mesh filter	0207726
Suction cup OCF20×80P Polyurethane 55/60, 3/8" NPT female	0121859
Suction cup OCF20×80P Polyurethane 55/60, G3/8" female	0122455
Suction cup OCF20×80P Polyurethane 55/60, G3/8" male	0121847

Description	Item no.
Suction cup OCF30×90P Polyurethane 55/60, 3/8" NPT female	0122459
Suction cup OCF30×90P Polyurethane 55/60, G3/8" female	0121786
Suction cup OCF30×90P Polyurethane 55/60, G3/8" male	0122456
Suction cup OCF40×110P Polyurethane 55/60, 3/8" NPT female	0121865
Suction cup OCF40×110P Polyurethane 55/60, G3/8" female	0122860
Suction cup OCF40×110P Polyurethane 55/60, G3/8" male	0122457