

Oval Flat family (OF)



Oval suction cups are specially suitable for long and narrow objects. This program of oval suction cups has characteristics that are specially suited for handling of metal-sheet material.

Lifting forces

	Lifting force vertical to the surface, lbf, at vacuum level			Lifting force parallell to the surface, lbf, at vacuum level		
	6 -inHg	18 -inHg	27 -inHg	6 -inHg	18 -inHg	27 -inHg
OF10x30P	0.90	2.47	3.82	1.35	2.70	3.82
OF15x45P	2.02	6.07	9.22	1.35	4.50	7.64
OF25x70P (PU40°)	5.40	14.8	24.1	10.3	20.2	23.6
OF25x70P (PU60°)	5.40	17.3	26.5	9.44	28.6	36.2
OF40x110P (PU40°)	15.5	45.6	65.9	27.0	51.7	66.5
OF40x110P (PU60°)	16.6	45.0	68.1	22.0	51.3	92.2
OF55x150P (PU40°)	29.4	82.3	118.5	34.8	78.7	102.3
OF55x150P (PU60°)	30.1	84.5	125.4	28.8	76.0	107.2
OF70x175P (PU40°)	42.7	119.1	176.5	38.2	98.9	141.6
OF70x175P (PU60°)	40.5	128.1	193.3	45.0	124.8	168.6

General specifications

	Outer diameter, in	Height, in	Min. curve radius, in	Max. vertical movement, in	Volume, in³
OF10x30P	1.21x0.43	0.57	0.59	0.04	0.03
OF15x45P	1.77x0.59	0.68	1.18	0.04	0.06
OF25x70P	2.85x1.07	0.91	1.97	0.07	0.37
OF40x110P	4.45x1.69	0.69	3.03	0.12	1.28
OF55x150P	6.06x2.32	0.83	5.91	0.12	2.26
OF70x175P	7.09x2.95	0.98	5.12	0.22	4.88

Available materials

	PU40°	PU50°	PU60°
OF10x30P		●	
OF15x45P		●	
OF25x70P	●		●
OF40x110P	●		●
OF55x150P	●		●
OF70x175P	●		●

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.

	Dry sheet metal	Corrugated / cardboard	Mark Free	Plastic injection molded parts
OF10x30P			●	
OF15x45P			●	
OF25x70P	●	●	●	●
OF40x110P	●	●	●	●
OF55x150P	●	●	●	●
OF70x175P	●	●	●	●

Fittings

For a table of possible fittings to use go to page 80 for technical information on all fittings visit piab.com.

Ordering information

For a complete list of available cups and combinations with further information visit piab.com. On our webpage you will also be able to find dimensional drawings, CAD-drawings and much more. Register to receive full access to all resources available.