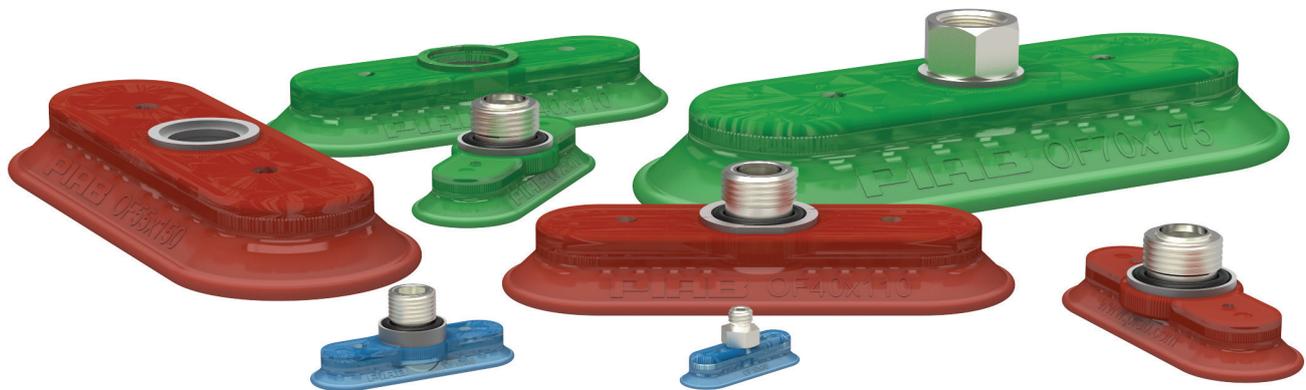


Oval Flat family (OF)



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, 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 |
| OF10x30P | 4 | 11 | 17 | 6 | 12 | 17 |
| OF15x45P | 9 | 27 | 41 | 6 | 20 | 34 |
| OF25x70P (PU40°) | 24 | 66 | 107 | 46 | 90 | 105 |
| OF25x70P (PU60°) | 24 | 77 | 118 | 42 | 127 | 161 |
| OF40x110P (PU40°) | 69 | 203 | 293 | 120 | 230 | 296 |
| OF40x110P (PU60°) | 74 | 200 | 303 | 98 | 228 | 410 |
| OF55x150P (PU40°) | 131 | 366 | 527 | 155 | 350 | 455 |
| OF55x150P (PU60°) | 134 | 376 | 558 | 128 | 338 | 477 |
| OF70x175P (PU40°) | 190 | 530 | 785 | 170 | 440 | 630 |
| OF70x175P (PU60°) | 180 | 570 | 860 | 200 | 555 | 750 |

GENERAL SPECIFICATIONS

| | Outer diameter, mm | Height, mm | Min. curve radius, mm | Max. vertical movement, mm | Volume, cm ³ |
|-----------|--------------------|------------|-----------------------|----------------------------|-------------------------|
| OF10x30P | 30.8×10.8 | 14.6 | 15 | 1 | 0.5 |
| OF15x45P | 45×15 | 17.15 | 30 | 1 | 1 |
| OF25x70P | 72.3×27.3 | 23 | 50 | 1.9 | 6 |
| OF40x110P | 113×43 | 17.5 | 77 | 3.1 | 21 |
| OF55x150P | 154×59 | 21 | 150 | 3 | 37 |
| OF70x175P | 180×75 | 25 | 130 | 5.7 | 80 |

AVAILABLE MATERIALS AND INDUSTRIES

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

| Cup | Material |  |  |  |  |  | MSF |
|-----------|----------|---|---|---|---|---|-----|
| OF10x30P | PU50° | ● | ● | ● | ● | ● | ● |
| OF15x45P | PU50° | ● | ● | ● | ● | ● | ● |
| OF25x70P | PU40° | ● | ● | ● | ● | ● | ● |
| OF25x70P | PU60° | ● | ● | ● | ● | ● | ● |
| OF40x110P | PU40° | ● | ● | ● | ● | ● | ● |
| OF40x110P | PU60° | ● | ● | ● | ● | ● | ● |
| OF55x150P | PU40° | ● | ● | ● | ● | ● | ● |
| OF55x150P | PU60° | ● | ● | ● | ● | ● | ● |
| OF70x175P | PU40° | ● | ● | ● | ● | ● | ● |
| OF70x175P | 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.

| | 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 pages 198–200, for technical information on all fittings visit piab.com.

ORDERING INFORMATION

| Description | Item no. |
|---|----------|
| Suction cup OF10x30P Polyurethane 50, M5 male | 0110084 |
| Suction cup OF15x45P Polyurethane 50, G1/8" male | 0115285 |
| Suction cup OF25x70P Polyurethane 40, G3/8" male | 0115304 |
| Suction cup OF40x110P Polyurethane 40 | 0109907 |
| Suction cup OF40x110P Polyurethane 40, 3/8" NPSF female | 0109851 |
| Suction cup OF40x110P Polyurethane 40, thread insert G3/8" male, with mesh filter | 0109850 |
| Suction cup OF40x110P Polyurethane 60 | 0109906 |
| Suction cup OF40x110P Polyurethane 60, 3/8" NPSF female | 0108265 |
| Suction cup OF40x110P Polyurethane 60, thread insert G3/8" male, with mesh filter | 0108263 |
| Suction cup OF55x150P Polyurethane 40 | 0109909 |
| Suction cup OF55x150P Polyurethane 40, 3/8" NPSF female | 0109853 |

| Description | Item no. |
|---|----------|
| Suction cup OF55x150P Polyurethane 40, thread insert G3/8" male, with mesh filter | 0109852 |
| Suction cup OF55x150P Polyurethane 60 | 0109908 |
| Suction cup OF55x150P Polyurethane 60, 3/8" NPSF female | 0108036 |
| Suction cup OF55x150P Polyurethane 60, thread insert G3/8" male, with mesh filter | 0108030 |
| Suction cup OF70x175P Polyurethane 40 | 0109911 |
| Suction cup OF70x175P Polyurethane 40, 3/8" NPSF female | 0109855 |
| Suction cup OF70x175P Polyurethane 40, thread insert G3/8" male, with mesh filter | 0109854 |
| Suction cup OF70x175P Polyurethane 60 | 0109910 |
| Suction cup OF70x175P Polyurethane 60, 3/8" NPSF female | 0108264 |
| Suction cup OF70x175P Polyurethane 60, thread insert G3/8" male, with mesh filter | 0108671 |