

PFOG Grooved Vacuum Cups



Features

- **Vacuum Grooves On Underside Increases Holding Area**
- **Resists Acceleration and Deceleration Shear**
- **Shear Resistance Is Increased By 25%**
- **20 mm to 40 mm Diameters**

Applications

The anti-slip flat cups are for pick-and- place applications that require an increased holding force without having to increase the diameter of the cup. The grooved foot pattern channels the vacuum flow to the cup's outer diameter which increases resistance to the shear force by 25% over conventional flat pads. These cups are perfect for high speed press transfer of small to medium sized stamped metal products with oily surfaces. This cup also works well with corrugated product.

PFOG Series Vacuum Cups

Special grooved flat cup with single lip provides increases vacuum flow area. Increased holding force resists against slipping of products with oily surfaces. Increased holding force also works well with corrugated product.

PFOTK Series Barbed Bulkhead

Top stem connectors secured with jam nuts and allow tubing connections at the top side. Nickel plated brass materials.



PFOTM Series Male Thread Connector

Simple male connection for low profile positions secured to a plate or bracket.

Fitting Material: Aluminium.



PFOYK Series 90° Barbed Adapter

Side stem connectors allow you to secure the stem with a bolt through a plate or "L" bracket to allow the tube connection from the side port. Nickel plated brass materials.



PFOTF Series Female Thread Connector

Simple female connection for low profile positions secured to a plate or bracket.

Fitting Material: Aluminium.

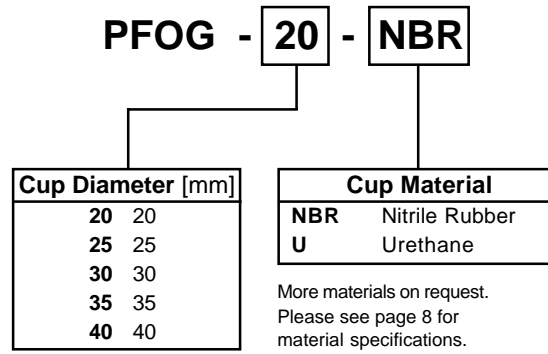


PFOTYS Series Bulkhead Level Compensator

303 stainless steel construction secured with jam nuts. Spring biased compensators can absorb impacts of down-strokes and adjust for different levels of pick up points. 303 stainless corrosion resistant materials with drymet bushings increases the strength and life.

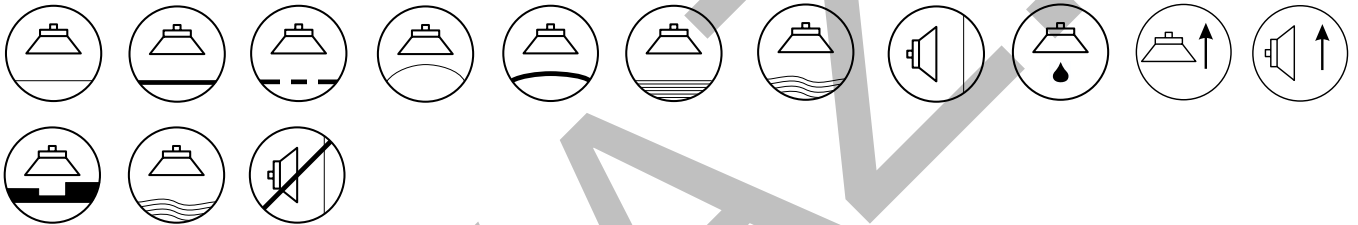


Model Number Index

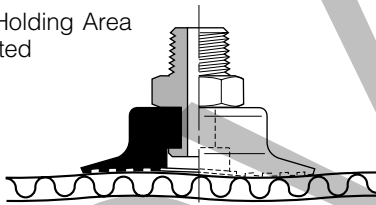


Selection Guide

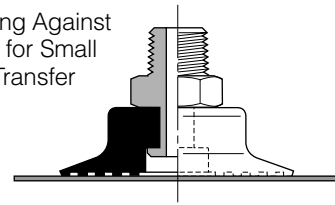
Anti-Slip Flat Cups



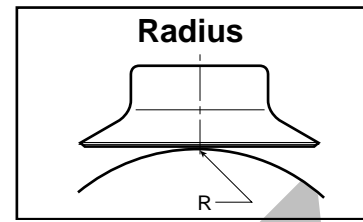
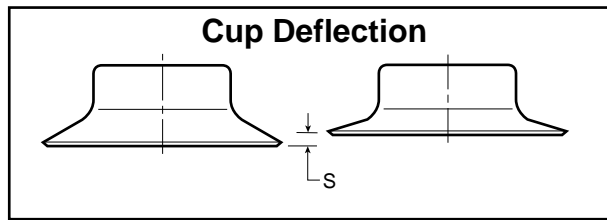
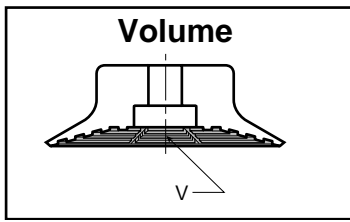
- Increased Holding Area for Corrugated



- Resists Slipping Against Oily Surfaces for Small Sheet Metal Transfer



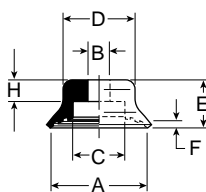
Main Data for Anti-Slip PFOG Suction Cups



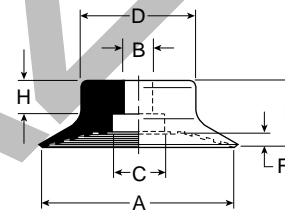
Model Number	Cup Diameter [mm]	Area [cm ²]	Volume [V] liters	Lifting Force @ 60% [N]		Cup Deflection [S] [mm]	Radius R [mm]
PFOG-20	20	3,14	0,0008	18,0	11,25	2,3	4,0
PFOG-25	25	4,91	0,0013	29,0	18,0	3,0	17,5
PFOG-30	30	7,07	0,0018	42,0	26,0	2,0	26,0
PFOG-35	35	9,62	0,0026	57,0	35,0	3,0	37,0
PFOG-40	40	12,60	0,0040	74,0	46,0	3,5	41,0

Dimensions

PFOG-20



PFOG-25 thru PFOG-40



Model Number	ØA	ØB	ØC	ØD	E	F	H
PFOG-20-*	20	4,6	11	15	10	1,5	4,5
PFOG-25-*	25	6	11	16	14	1,1	7
PFOG-30-*	30	6	11	14	12	1,3	7
PFOG-35-*	35	6	11	21	12	1,6	7
PFOG-40-*	40	6	11	24	14	2,8	7

Millimeter
* Cup Material