

A

# PFG Flat Vacuum Cups



## Features

- **Universal Flat Design for Most Smooth Surface Applications**
- **Stable Vertical / Horizontal Lift**
- **Strong Low Profile Design for Fast Response Needed for Short Cycles**
- **1.5mm to 200mm Diameters**
- **Bottom Cleats on 60 to 200mm**

## Applications

Exceptional for any smooth flat or surface that will benefit from stability and fast response of the cup design. This is a multi-versatile and multi-industry cup. Typical applications could be chip mounting, electrical components, semiconductor chips, glass, injection mold, sheet metal, press transfer, fixtures, woodworking.

## PFG Series Vacuum Cups

Precision molded single lip flat cup for smooth or slightly curved surfaces.

## PFTM Series Male Thread Connector

Simple male connection for low profile positions secured to a plate or bracket. UNF, NPT, G, metric threads. Internal hex for easy assembly. Fitting Material: Aluminum.



## PFTF Series Female Thread Connector

Simple female connection for low profile positions secured to a plate or bracket. NPSF, G threads. Internal hex for easy assembly. Fitting Material: Aluminum.



## PFTK Series Barbed Bulkhead

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



## PFYK Series 90° Barbed Adapter

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



## PFTYS 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 (Cups Only)

(Bold Items are Stocked)

**PFG - 2A - NBR**

Cup Diameter (mm)			
1.5A	(1.5)	25	(25)
2A	(2)	30	(30)
3.5A	(3.5)	35	(35)
5A	(5)	40	(40)
6A	(6)	50	(50)
8A	(8)	60	(60)
10A	(10)	80	(80)
15*	(15)	95	(95)
15A**	(15)	120	(120)
20*	(20)	150	(150)
20B**	(20)	200	(200)

Cup Material	
<b>Stocked</b>	
NBR	Nitrile Rubber
SI	Silicone
<b>Available (Consult Factory)</b>	
U	Urethane
NBRE	Nitrile ESD
CR	Chloroprene
SIE	Silicone ESD
FKM	Flouro Rubber
SH	High Temp
Z	Markless

\* Available for PFTK & PFYK Cup Assemblies Only.

\*\* Available for PFTM, PFTF & PFTYS Cup Assemblies Only.

**Note:** 60 thru 200mm cups have cup cleats.

## Specifications

Suction Cup Material	NBR	NBRE	CR	SI	SIE	U	FKM	SH	Z
	Nitrile	Nitrile ESD*	Chloroprene	Silicone	Silicone ESD*	Urethane	Flouro Rubber	Silicone High Temp	Markless
Operating Temperature (°C)	-20° to +120°	-30° to +120°	-30° to +140°	-60° to +250°	-60° to +250°	-30° to +120°	-10° to +230°	-50° to +300°	-10 to +230°
Color	Black	Black / Blue Dot	Green	White	Black / Red Dot	Blue	Black / White Dot	Grey	Black / Yellow Dot
Hardness, Shore A (°Sh)	55 ±5	70 ±5	55 ±5	55 ±5	55 ±5	55 ±5	70 ±5	55 ±5	70 ±5
Electrical Resistance (Ωm)	—	800 to 1000	—	—	800 to 1000	—	—	—	—
Wear Resistance	.....	.....	.....	..	.....	.....	...	..	...
Tear Strength	....	.....	.....	.	.....	.....	.	.	.
Aging Resistance	....	.....	.....	.....	.....	.....	.....	.....	.....
Ozone Resistance	....	.....	.....	.....	.....	.....	.....	.....	.....
Gasoline Resistance	.....	.....	.....	....	.....	.....	.....	....	.....
Oil Resistance	.....	.....	.....	.....	.....	.....	.....	.....	.....
Acid Resistance	...	.....	.....	...	.....	.....	.....	...	.....
Alkali Resistance	....	.....	.....	...	.....	.....	.....	...	.....
Chemical Resistance	...	.....	.....	..	.....	.....	.....	..	.....
Mechanical Resistance	....	.....	.....	....	.....	.....	..	....	..

..... = excellent; ..... = very good; ..... = good; .... = medium; ... = poor; . = not recommended

\* ESD: Electric Static Dissipative Material

