



Item no: FCF50P.4R.05UF

Suction cup FCF50P Polyurethane 55/60, G3/8" male, with mesh filter

- Special designed friction cups for oily surfaces, such as sheets in metal forming processes.
- Normal wear on friction cup will not affect the long term shear force performance.
- Best choice if $> 0.1\text{g}/\text{m}^2$ press oil is used on the sheet.
- Thanks to the strong grip on oily surfaces, the suction cups can withstand high shear forces, typically 2–4 times more than corresponding conventional suction cups.
- The "FCF" design is suitable for slightly domed and flat surfaces, e.g., such as those encountered when handling metal sheets in press lines.
- The suction cups have support cleats that prevent thin objects from being disfigured.
- DURAFLEX® suction cups manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane. The material does not leave any marks on the objects handled.

General

Item number, alternative	E12045035
Application	Oily sheet metal
Suction cup shape	Flat Concave
Material	PU55, PU60
Suction cup model	FCF
Weight	1.093 - 0.99 oz
Volume	0.61 in ³
Name	FCF50P Dry metal sheet
Specification	Dry metal sheet
Movement, vertical max.	0.16 in
Curve radius, min.	1.97 in
Name	FCF50P Oily steel plate
Specification	Oily steel plate

Fitting

Fitting option	Filter mesh
Fitting size	3/8"
Fitting style	Male
Fitting type	G-thread

Dimension

Height	1.34 in
Outer diameter, actuated	2.11 in
Outer diameter	1.97 in

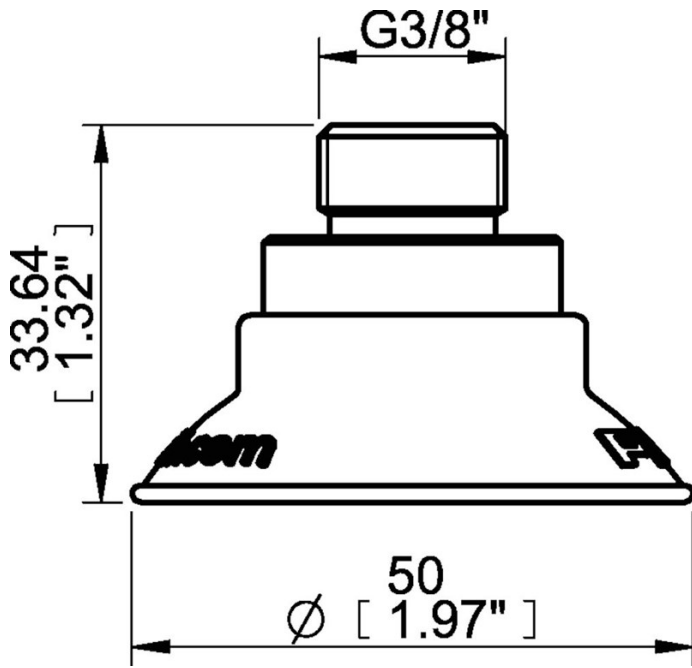
Performance - lifting forces

FCF50P Dry metal sheet	↑	↗
17.72 -inHg	17.54 lbf	17.31 lbf
26.58 -inHg	23.83 lbf	23.61 lbf
FCF50P Oily steel plate	↑	↗
17.72 -inHg	16.19 lbf	11.69 lbf
26.58 -inHg	22.71 lbf	15.74 lbf

Material

Name	PU55	PU60
Color	Orange	GreenTransparent
Temperature	50 - 122 °F	50 - 122 °F
Hardness	55 °Shore A	60 °Shore A

	PU55	PU60
Alcohol	n/a	n/a
Concentrated acids	+	+
Ethanol	+	+
Hydrolysis	+	+
Methanol	-	-
Oil	+++	+++
Oxidation	-	-
Gasoline	+	+
Wear resistance	+++	+++
Weather and ozone	+++	+++



Values specified in the data sheet are tested at:

- Room temperature: (20°C [68°F] ± 3°C [5.5°F])
- Standard atmosphere: (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])
- Relative humidity: 0-100%
- Compressed air quality: DIN ISO 8573-1 class 4