

Suction cup FCF50P Polyurethane 55/60, G1/4" female, 0206936



- 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 $> 0.1\text{g/m}^2$ 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

Specification	Dry metal sheet
Curve radius	50 mm
Movement, vertical max.	3.6 mm
Application	Oily sheet metal
Material	Polyurethane (PU55), Polyurethane (PU60)
Suction cup model	FCF
Suction cup shape	Flat Concave
Volume	10 cm ³
Weight	75.6 g

Fitting

Fitting size	1/4"
Fitting style	Female
Fitting type	G-thread

Dimension

Height	30.6 mm
Outer diameter	50 mm
Outer diameter, actuated	53.5 mm

Performance — lifting forces, Dry metal sheet

		
60 -kPa	78 N	77 N
90 -kPa	106 N	105 N

Performance — lifting forces, Oily steel plate

		
60 -kPa	72 N	52 N
90 -kPa	101 N	70 N

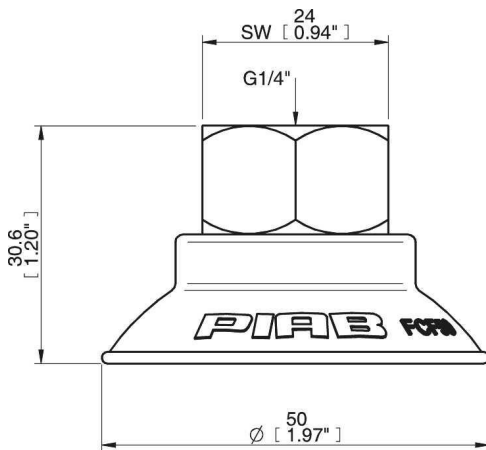
Material

	Polyurethane (PU55)	Polyurethane (PU60)
Colour	Orange	Green transparent
Hardness	55 °Shore A	60 °Shore A
Temperature	10 – 50 °C	10 – 50 °C

Material resistance

	Polyurethane (PU55)	Polyurethane (PU60)
Alcohol	N/A	N/A
Concentrated acids	+	+
Ethanol	+	+
Hydrolysis	+	+
Methanol	-	-
Oil	+++	+++
Oxidation	-	-
Petrol	+	+
Wear resistance	+++	+++
Weather and ozone	+++	+++

Dimensional drawings



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