

# Suction cup FCF100P Polyurethane 55/60, M10x1.5 male

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- 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 > 0.1g/m2 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.

## Technical data

Description	Unit	Value
Suction cup shape	-	Flat Concave
Application	-	Oily sheet metal
Suction cup design	-	Round
Characteristics	-	Oily sheet metal
Material	-	Polyurethane (PU)
Weight, max.	g	171
Weight, min.	g	92
Suction cup model	-	FCF
Volume	cm <sup>3</sup>	70
Height	mm	44.8
Outer diameter, min.	mm	100
Outer diameter, actuated	mm	104.6
Fitting size	-	M10x1.5
Fitting option	-	None
Fitting style	-	Male
Fitting type	-	M-thread
Suction cup model	-	FCF100P Oily steel plate
Movement, vertical max.	mm	6.9
Curve radius, min.	mm	150
Suction cup model	-	FCF100P Dry metal sheet
Movement, vertical max.	mm	6.9
Curve radius, min.	mm	150

## Performance - Lifting forces

	Vertical (N)	Parallel (N)
FCF100P Oily steel plate		
60 -kPa	236	139
90 -kPa	298	205
FCF100P Dry metal sheet		
60 -kPa	347	337
90 -kPa	490	484

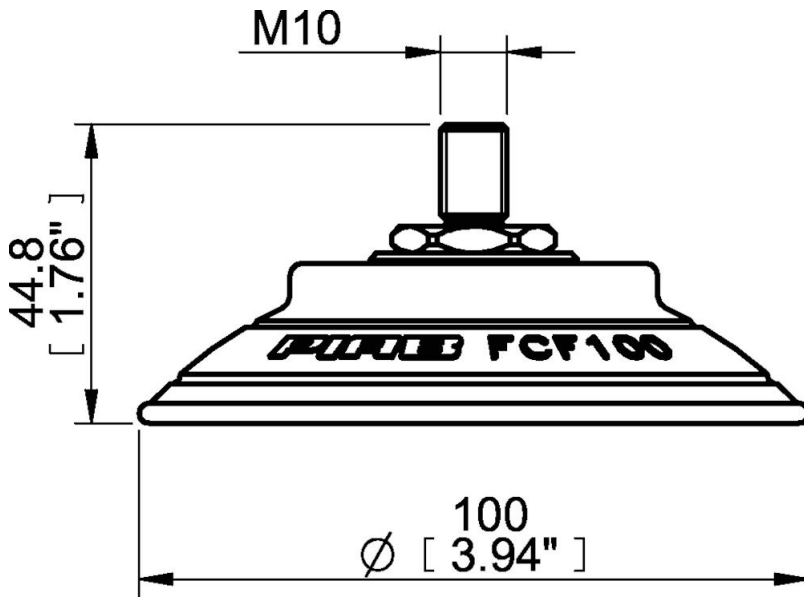
## Material

Name	Polyurethane (PU55)	Polyurethane (PU60)
Colour	Orange	Green transparent
Temperature, min.   °C	10	10
Temperature max.   °C	50	50
Hardness   °Shore A	55	60

## Material resistance

Alcohol	n/a	n/a
Concentrated acids	Fair	Fair
Ethanol	Fair	Fair
Hydrolysis	Fair	Fair
Methanol	Poor	Poor
Oil	Excellent	Excellent
Oxidation	Poor	Poor
Petrol	Fair	Fair
Wear resistance	Excellent	Excellent
Weather and ozone	Excellent	Excellent

## Dimensional drawings



Values specified in this data sheet are tested at (unless otherwise stated):

- 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 20-70%.
- Compressed air quality, DIN ISO 8573-1 class 4.