

Suction cup FCF100P Polyurethane 55/60, G1/4" Male

Item number: 02.13.911



- 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, min.	oz	4.22
Suction cup model	-	FCF
Volume	in ³	4.27
Height	in	1.52
Outer diameter, min.	in	3.94
Outer diameter, actuated	in	4.12
Fitting size	-	1/4"
Fitting style	-	Male
Fitting type	-	G-thread
Suction cup model	-	FCF100P Oily steel plate
Movement, vertical max.	in	0.27
Curve radius, min.	in	5.91
Suction cup model	-	FCF100P Dry metal sheet
Movement, vertical max.	in	0.27
Curve radius, min.	in	5.91

Performance - Lifting forces

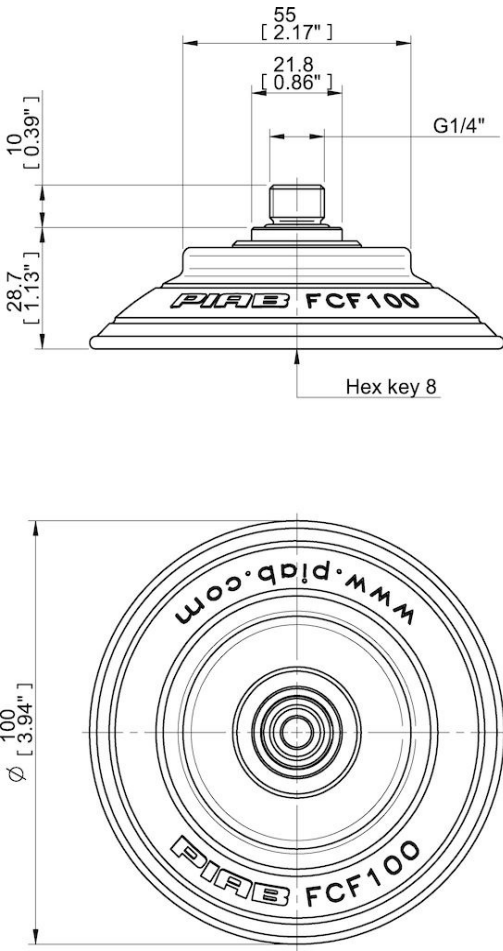
FCF100P Oily steel plate	Vertical (lb)	Parallel (lb)
17.72 -inHg	53.055	31.25
26.58 -inHg	66.99	46.086
FCF100P Dry metal sheet	Vertical (lb)	Parallel (lb)
17.72 -inHg	78.0091	75.76
26.58 -inHg	110.16	108.81

Material		
Name	Polyurethane (PU55)	Polyurethane (PU60)
Color	Orange	Green transparent
Temperature, min. °F	50.0	50.0
Temperature max. °F	122.0	122.0
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
Gasoline	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.