



Item no: 0121431

Suction cup FCF35P Polyurethane 55/60, M10x1.5 male

The FCF-P design is suitable for oily surfaces, 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.

- 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

Application	Oily sheet metal
Suction cup shape	Flat Concave
Material	PU55, PU60
Suction cup model	FCF
Weight	19 - 42 g
Volume	5 cm ³
Suction cup model	FCF35P Dry metal sheet
Specification	Dry metal sheet
Movement, vertical max.	2.5 mm
Curve radius, min.	40 mm
Suction cup model	FCF35P Oily steel plate
Specification	Oily steel plate

Fitting

Fitting option	None
Fitting size	M10×1.5
Fitting style	Male
Fitting type	M-thread

Dimension

Height	47.8 mm
Outer diameter, actuated	38.5 mm
Outer diameter	35 mm


Performance - lifting forces

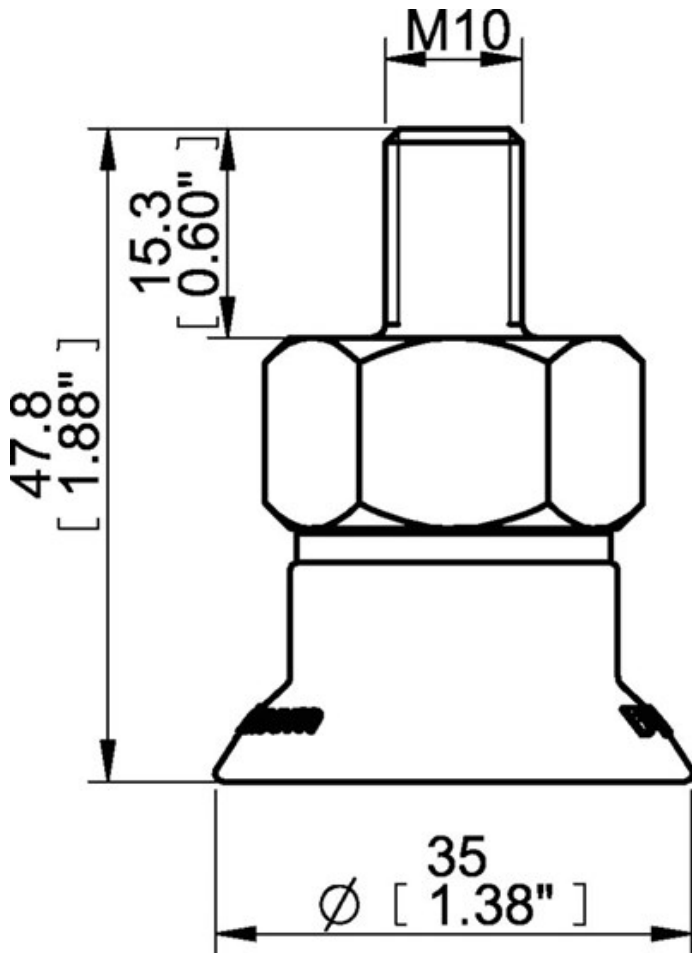
	↑	↗
FCF35P Dry metal sheet		
60 -kPa	42 N	30 N
90 -kPa	58 N	42 N
	↑	↗
FCF35P Oily steel plate		
60 -kPa	34 N	26 N
90 -kPa	50 N	32 N

Material

Name	PU55	PU60
Colour	Orange	GreenTransparent
Temperature	10 - 50 °C	10 - 50 °C
Hardness	55 °Shore A	60 °Shore A

	PU55	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