

Suction cup FCF50P Polyurethane 55/60, T-slot, with mesh filter

Article number: 0206929



- 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

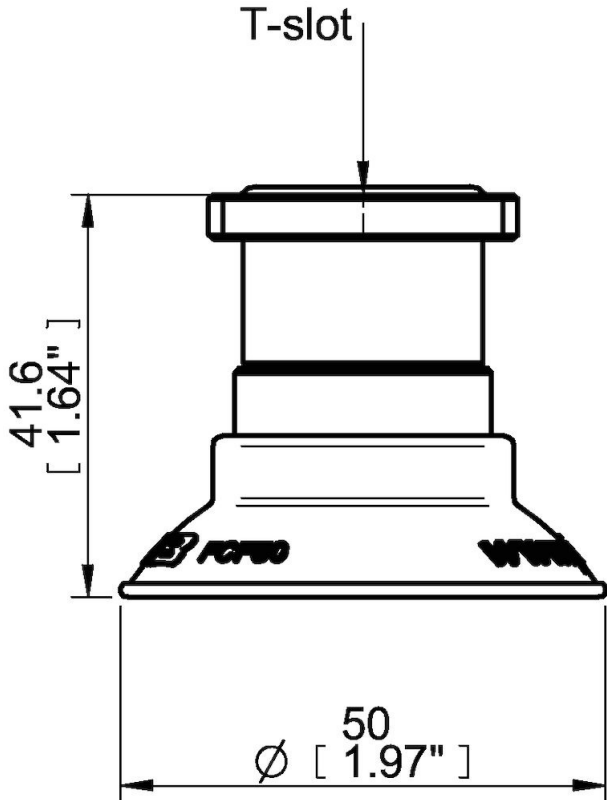
| Description | Unit | Value |
|--------------------------|------|-------------------------|
| Suction cup shape | - | Flat Concave |
| Application | - | Oily sheet metal |
| Suction cup design | - | Round |
| Characteristics | - | Oily sheet metal |
| Material | - | Polyurethane (PU) |
| Weight, min. | g | 50.7 |
| Suction cup model | - | FCF |
| Volume | cm³ | 10 |
| Height | mm | 41.64 |
| Outer diameter, min. | mm | 50 |
| Outer diameter, actuated | mm | 53.5 |
| Fitting option | - | Filter mesh |
| Fitting style | - | T-slot |
| Suction cup model | - | FCF50P Dry metal sheet |
| Movement, vertical max. | mm | 4 |
| Curve radius, min. | mm | 50 |
| Suction cup model | - | FCF50P Oily steel plate |
| Movement, vertical max. | mm | 4 |
| Curve radius, min. | mm | 50 |

Performance - Lifting forces

| | Vertical (N) | Parallel (N) |
|-------------------------|--------------|--------------|
| FCF50P Dry metal sheet | | |
| 60 -kPa | 78 | 77 |
| 90 -kPa | 106 | 105 |
| FCF50P Oily steel plate | | |
| 60 -kPa | 72 | 52 |
| 90 -kPa | 101 | 70 |

| | | |
|----------------------------|---------------------|---------------------|
| 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.