

## Suction cup FCF25P Polyurethane 55/60, T-slot

Item number: FCF25P.4R.T1W



- 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

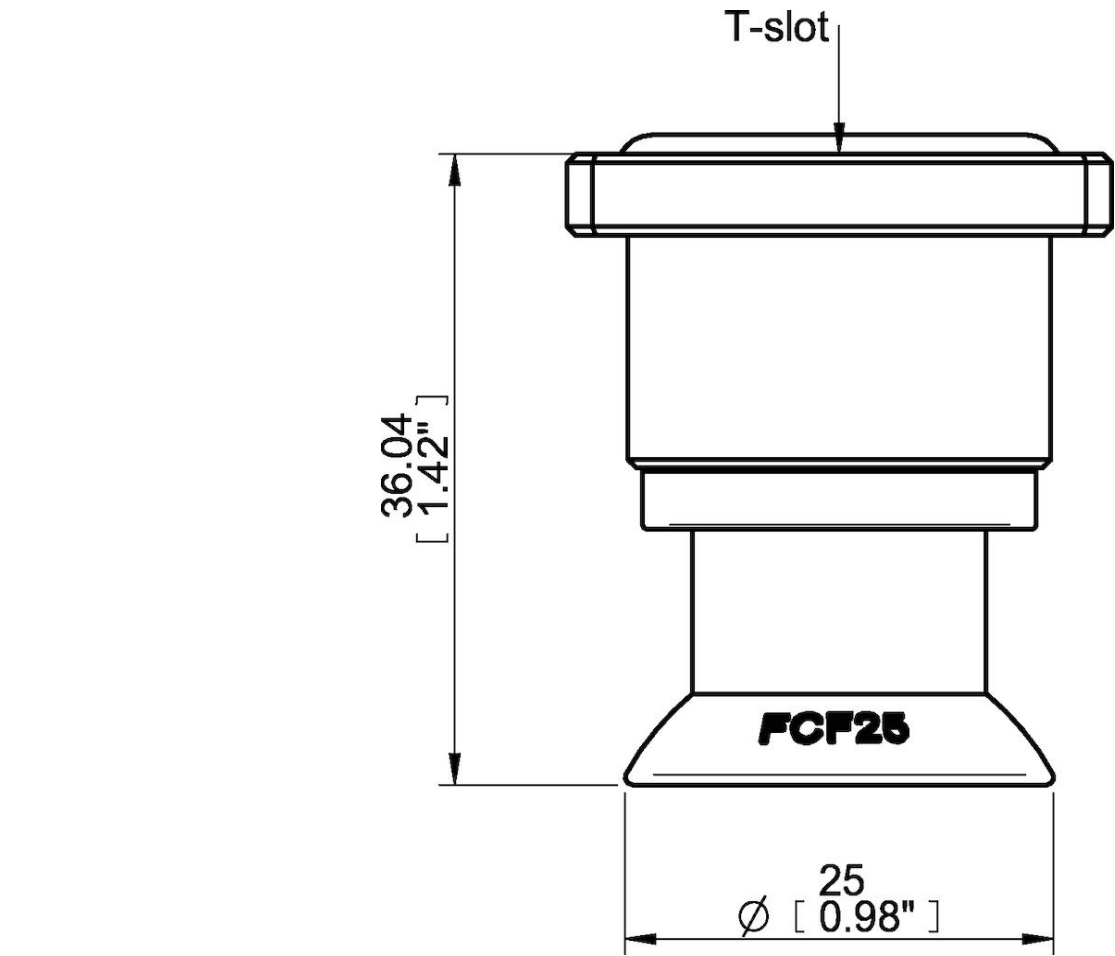
| Description              | Unit            | Value                   |
|--------------------------|-----------------|-------------------------|
| Suction cup shape        | -               | Flat Concave            |
| Application              | -               | Oily sheet metal        |
| Suction cup design       | -               | Round                   |
| Characteristics          | -               | Oily sheet metal        |
| Material                 | -               | Polyurethane (PU)       |
| Weight, min.             | oz              | 1.086                   |
| Suction cup model        | -               | FCF                     |
| Volume                   | in <sup>3</sup> | 0.34                    |
| Height                   | in              | 1.42                    |
| Outer diameter, min.     | in              | 0.98                    |
| Outer diameter, actuated | in              | 1.075                   |
| Fitting style            | -               | T-slot                  |
| Suction cup model        | -               | FCF25P Dry metal sheet  |
| Movement, vertical max.  | in              | 0.079                   |
| Curve radius, min.       | in              | 1.063                   |
| Suction cup model        | -               | FCF25P Oily steel plate |
| Movement, vertical max.  | in              | 0.079                   |
| Curve radius, min.       | in              | 1.063                   |

### Performance - Lifting forces

| FCF25P Dry metal sheet  | Vertical (lb) | Parallel (lb) |
|-------------------------|---------------|---------------|
| 17.72 -inHg             | 4.27          | 1.57          |
| 26.58 -inHg             | 6.29          | 2.25          |
| FCF25P Oily steel plate | Vertical (lb) | Parallel (lb) |
| 17.72 -inHg             | 4.27          | 1.12          |
| 26.58 -inHg             | 6.52          | 1.62          |

| 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.