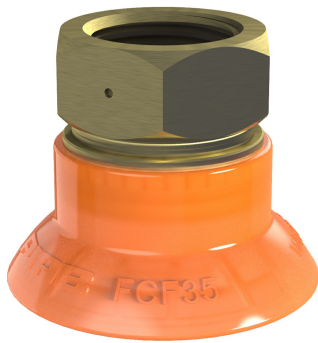


## Suction cup FCF35P Polyurethane 55/60, G3/8" female

Item number: FCF35P.4R.04UA



- 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.             | oz              | 1.48                    |
| Weight, min.             | oz              | 0.67                    |
| Suction cup model        | -               | FCF                     |
| Volume                   | in <sup>3</sup> | 0.31                    |
| Height                   | in              | 1.12                    |
| Outer diameter, min.     | in              | 1.38                    |
| Outer diameter, actuated | in              | 1.52                    |
| Fitting size             | -               | 3/8"                    |
| Fitting option           | -               | None                    |
| Fitting style            | -               | Female                  |
| Fitting type             | -               | G-thread                |
| Suction cup model        | -               | FCF35P Dry metal sheet  |
| Movement, vertical max.  | in              | 0.098                   |
| Curve radius, min.       | in              | 1.57                    |
| Suction cup model        | -               | FCF35P Oily steel plate |
| Movement, vertical max.  | in              | 0.098                   |
| Curve radius, min.       | in              | 1.57                    |

Performance - Lifting forces

| FCF35P Dry metal sheet  | Vertical (lb) | Parallel (lb) |
|-------------------------|---------------|---------------|
| 17.72 -inHg             | 9.44          | 6.74          |
| 26.58 -inHg             | 13.039        | 9.44          |
| FCF35P Oily steel plate |               |               |
| 17.72 -inHg             | 7.64          | 5.85          |
| 26.58 -inHg             | 11.24         | 7.19          |

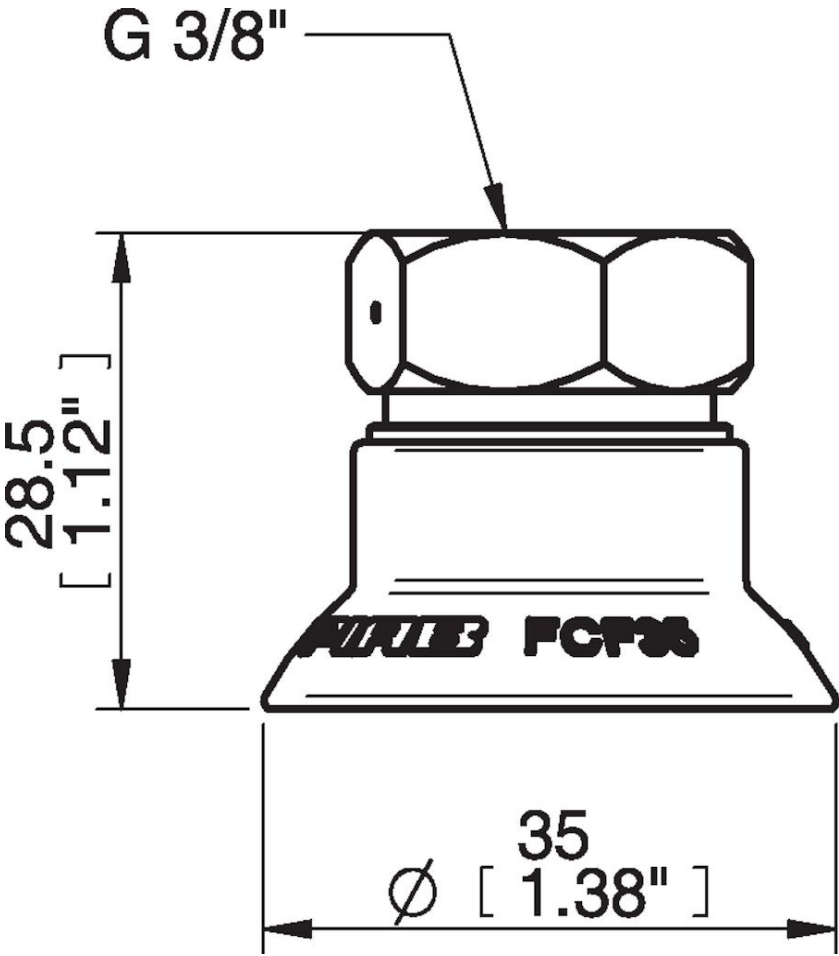
Material

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