



Item no: 0118435

## Suction cup FCF125P Polyurethane 55/60, G3/8" male, with mesh filter

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

|                          |                          |
|--------------------------|--------------------------|
| Item number, alternative | E12041235                |
| Application              | Oily sheet metal         |
| Material                 | PU55, PU60               |
| Weight                   | 151 - 148 g              |
| Suction cup model        | FCF125P Oily steel plate |
| Specification            | Oily steel plate         |
| Movement, vertical max.  | 9.4 mm                   |
| Curve radius, min.       | 150 mm                   |
| Suction cup model        | FCF125P Dry metal sheet  |
| Specification            | Dry metal sheet          |

Dimensions DWG

|          |          |
|----------|----------|
| Diameter | 125 mm   |
| Height   | 41.5 mm  |
| Thread   | G 3/8 in |

Performance - lifting forces

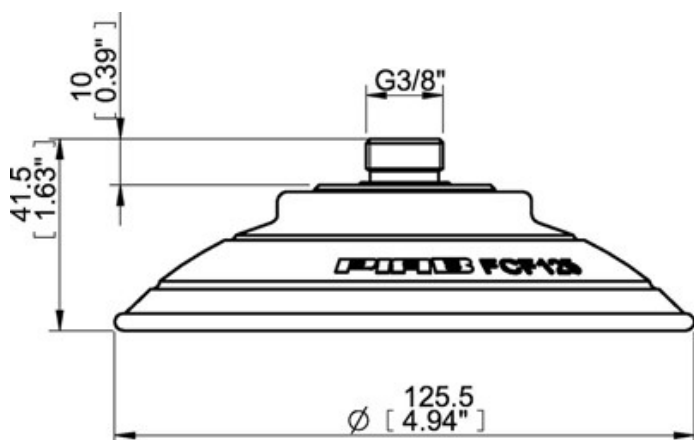
|                          |       |       |
|--------------------------|-------|-------|
| FCF125P Oily steel plate | ↑     | ↗     |
| 60 -kPa                  | 405 N | 194 N |
| 90 -kPa                  | 442 N | 236 N |
| FCF125P Dry metal sheet  | ↑     | ↗     |
| 60 -kPa                  | 475 N | 445 N |
| 90 -kPa                  | 650 N | 602 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
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