

# Datasheet

## Suction cup F30MF Thermoelastic polyurethane, G1/8" male/M5 female, with mesh filter

Item number: F30MF.40.02AF



- Suction cup of TPU, a mark free material that leaves no trace on the object being handled.
- Suitable for flat surfaces.
- Good stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.

### Technical data

| Description              | Unit            | Value              |
|--------------------------|-----------------|--------------------|
| Suction cup shape        | -               | Flat               |
| Application              | -               | Mark Free          |
| Suction cup design       | -               | Round              |
| Characteristics          | -               | Mark free          |
| Material                 | -               | TPE                |
| Weight, min.             | oz              | 0.078              |
| Suction cup model        | -               | F-MF               |
| Volume                   | in <sup>3</sup> | 0.12               |
| Height                   | in              | 0.69               |
| Outer diameter, min.     | in              | 1.26               |
| Outer diameter, actuated | in              | 1.28               |
| Fitting size             | -               | 1/8", M5           |
| Fitting option           | -               | Filter mesh        |
| Fitting style            | -               | Female/Male        |
| Fitting type             | -               | G-thread, M-thread |
| Suction cup model        | -               | F30MF              |
| Movement, vertical max.  | in              | 0.055              |
| Curve radius, min.       | in              | 1.73               |

### Performance - Lifting forces

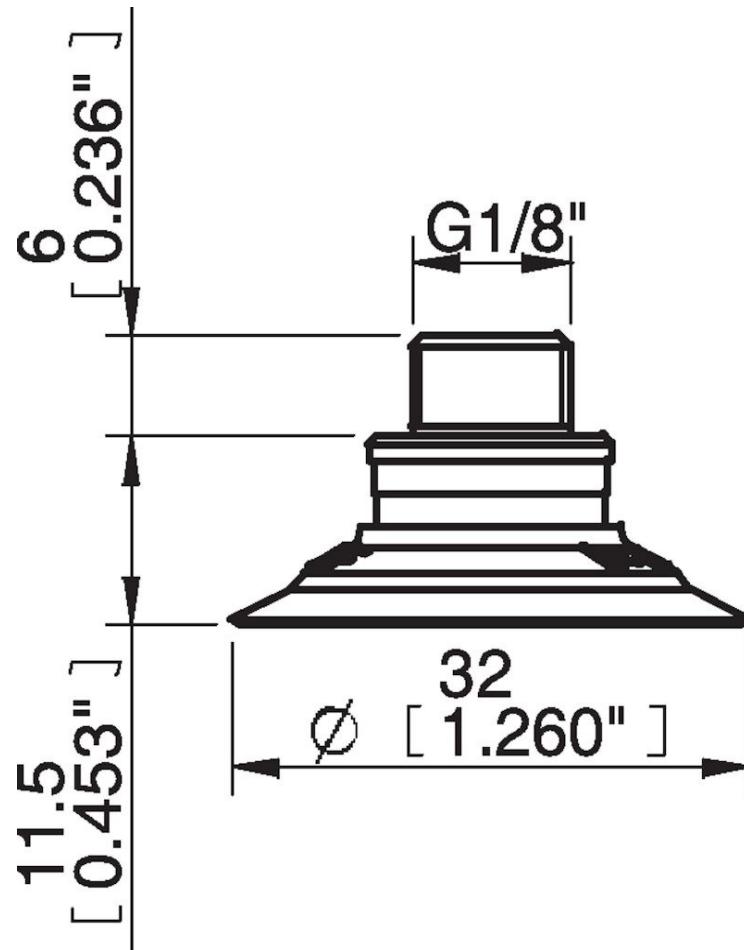
| F30MF       | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg  | 2.47          | 3.057         |
| 17.72 -inHg | 7.76          | 6.29          |
| 26.58 -inHg | 10.79         | 9.44          |

|                        |                                    |
|------------------------|------------------------------------|
| <b>Material</b>        |                                    |
| Name                   | Thermoplastic Polyurethane (TPE-U) |
| Color                  | White transparent                  |
| Temperature, min.   °F | -4.0                               |
| Temperature max.   °F  | 176.0                              |
| Hardness   °Shore A    | 81                                 |

#### Material resistance

|                    |           |
|--------------------|-----------|
| Alcohol            | Good      |
| Concentrated acids | Poor      |
| Ethanol            | n/a       |
| Hydrolysis         | Poor      |
| Methanol           | n/a       |
| Oil                | Excellent |
| Oxidation          | Good      |
| Gasoline           | Poor      |
| Wear resistance    | Excellent |
| Weather and ozone  | 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.

## Accessories

02AE | Fitting 5xM5 female  
02CD | Fitting G1/8" male/M5 female, PA  
02AA | Fitting M5 female  
02AD | Fitting G1/8" male/M5 female  
02AB | Fitting G1/8" male, with mesh filter  
02AC | Fitting 1/8" NPT male, with mesh filter  
02DA | Fitting M5 female, with dual flow control valve  
02DC | Fitting 1/8" NPT male, with dual flow control valve  
02DD | Fitting G1/8" male/M5 female, with dual flow control valve  
02DE | Fitting 5xM5 female, with dual flow control valve

## Spare parts

F30MF.40 | Suction cup F30MF Thermoelastic polyurethane  
02AF | Fitting G1/8" male/M5 female, with mesh filter