

# Datasheet

## Suction cup F40-2 Silicone, NPTG1/4" male, with dual flow control valve

Item number: F40-2.20.04DC



- Suitable for flat objects.
- Good stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.
- Cleats prevent thin, sensitive objects from being deformed and gives extra friction when the lifting force is parallel.

### Technical data

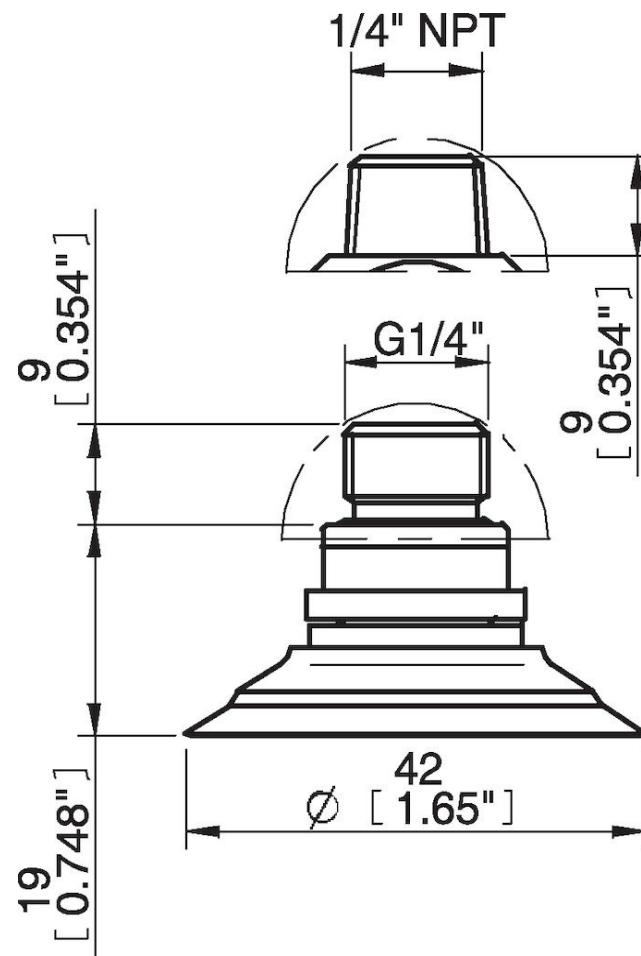
| Description             | Unit            | Value                                |
|-------------------------|-----------------|--------------------------------------|
| Suction cup shape       | -               | Flat                                 |
| Application             | -               | Dry sheet metal                      |
| Suction cup design      | -               | Round                                |
| Characteristics         | -               | Dry sheet metal                      |
| Material                | -               | Silicone (SIL)                       |
| Weight, min.            | oz              | 0.19                                 |
| Suction cup model       | -               | F                                    |
| Volume                  | in <sup>3</sup> | 0.29                                 |
| Leakage flow, max.      | scfm            | 0.28                                 |
| Height                  | in              | 1.10                                 |
| Outer diameter, min.    | in              | 1.65                                 |
| Fitting size            | -               | 1/4"                                 |
| Fitting option          | -               | Dual flow control valve, Filter mesh |
| Fitting style           | -               | Male                                 |
| Fitting type            | -               | NPT-thread                           |
| Valve restriction       | in              | 0.035                                |
| Suction cup model       | -               | F40-2                                |
| Movement, vertical max. | in              | 0.071                                |
| Curve radius, min.      | in              | 2.047                                |

### Performance - Lifting forces

|             | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| F40-2       |               |               |
| 5.91 -inHg  | 4.50          | 3.37          |
| 17.72 -inHg | 8.99          | 5.62          |
| 26.58 -inHg | 11.24         | 6.74          |

|                            |                           |
|----------------------------|---------------------------|
| <b>Material</b>            |                           |
| Name                       | Silicone, SIL 50° Shore A |
| Color                      | Red                       |
| Temperature, min.   °F     | -40.0                     |
| Temperature max.   °F      | 392.0                     |
| Hardness   °Shore A        | 50                        |
| <b>Material resistance</b> |                           |
| Alcohol                    | Good                      |
| Concentrated acids         | Poor                      |
| Ethanol                    | n/a                       |
| Hydrolysis                 | Fair                      |
| Methanol                   | n/a                       |
| Oil                        | Poor                      |
| Oxidation                  | Excellent                 |
| Gasoline                   | Poor                      |
| Wear resistance            | Good                      |
| 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

04AF | Fitting 5x1/8" NPSF female, 30–40  
F40-2.30 | Suction cup F40-2 Nitrile-PVC  
04AG | Fitting 1/8" NPSF female, 30–40, with mesh filter  
04UV | Fitting 1/8" NPSF female, 30–40, with cone valve  
04CA | Fitting 1/8" NPSF female, 30–40, PA  
04AA | Fitting 1/8" NPSF female, 30–40  
04AD | Fitting G3/8" male, 30–40, with mesh filter  
04AE | Fitting 3/8" NPT male, with mesh filter  
04AB | Fitting G1/4" male, 30–40, with mesh filter  
04AC | Fitting 1/4" NPT male, with mesh filter  
04DA | Fitting 1/8" NPSF female, 30–40, with dual flow control valve  
04DC | Fitting 1/4" NPT male, with dual flow control valve  
04DD | Fitting G3/8" male, 30–40, with dual flow control valve  
04DE | Fitting 3/8" NPT male, with dual flow control valve  
04DF | Fitting 5x1/8" NPSF female, 30–40, with dual flow control valve

## Spare parts

F40-2.20 | Suction cup F40-2 Silicone  
04DB | Fitting G1/4" male, 30–40, with dual flow control valve