

Datasheet

Suction cup B50 Silicone FCM, G1/4" male, with mesh filter

Item number: B50.21.05AB



- The silicone material complies with FDA 21 CFR 177.2600 & EU 1935/2004.
- Suitable for level adjustment. Several short bellows in one lifting device can handle objects with height differences and varying shapes, for example embossed or corrugated plates.
- The lifting movement can be used to separate small and thin objects.
- Only lightweight objects should be handled when the lifting force is parallel to the surface of the object, in order to achieve good precision and safe lifting movement.

Technical data

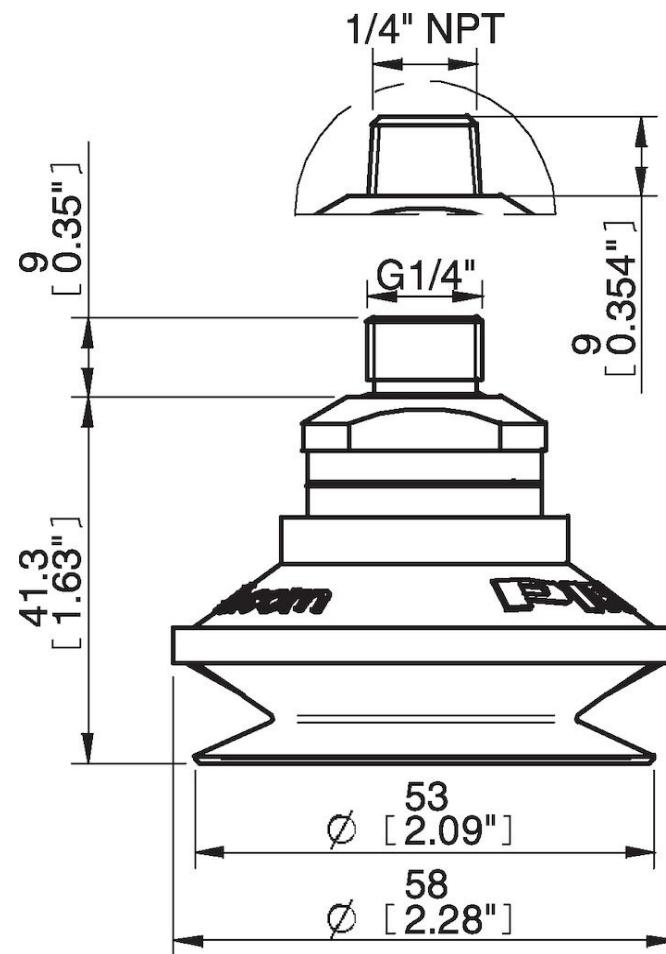
| Description | Unit | Value |
|--------------------------|-----------------|---|
| Suction cup shape | - | Bellows |
| Application | - | Food contact materials (FDA & EU), non-detectable |
| Suction cup design | - | Round |
| Characteristics | - | Food contact materials (FDA & EU), non-detectable |
| Material | - | Silicone (SIL) |
| Weight, min. | oz | 0.71 |
| Suction cup model | - | B |
| Volume | in ³ | 1.95 |
| Height | in | 1.98 |
| Outer diameter, min. | in | 2.11 |
| Outer diameter, actuated | in | 2.36 |
| Fitting size | - | 1/4" |
| Fitting option | - | Filter mesh |
| Fitting style | - | Male |
| Fitting type | - | G-thread |
| Suction cup model | - | B50 |
| Movement, vertical max. | in | 0.72 |
| Curve radius, min. | in | 1.18 |

Performance - Lifting forces

| B50 | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg | 7.42 | 5.44 |
| 17.72 -inHg | 14.61 | 11.51 |
| 26.58 -inHg | 18.43 | 13.67 |

| | |
|----------------------------|------------------------------|
| Material | |
| Name | Silicone (SIL FDA) 50° Shore |
| Color | Transparent |
| Temperature, min. °F | -40.0 |
| Temperature max. °F | 392.0 |
| Hardness °Shore A | 50 |
| Material resistance | |
| 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

05AG | Fitting 1/8" NPSF female, 50, with mesh filter
05AC | Fitting 1/4" NPT male, with mesh filter

Spare parts

B50.21 | Suction cup B50 Silicone FCM
05AB | Fitting G1/4" male, 50, with mesh filter