

# Suction cup B20 Silicone FCM

Item number: B20.21



- 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                                                                        |
| Suction cup design       | -    | Round                                                                          |
| Characteristics          | -    | Food contact materials (FDA & EU). non-detectable. High/low temp cup (plastic) |
| Material                 | -    | Silicone (SIL)                                                                 |
| Weight, min.             | oz   | 0.11                                                                           |
| Suction cup model        | -    | B                                                                              |
| Volume                   | in³  | 0.16                                                                           |
| Height                   | in   | 0.75                                                                           |
| Outer diameter, min.     | in   | 0.87                                                                           |
| Outer diameter, actuated | in   | 1.024                                                                          |
| Fitting size             | -    | None                                                                           |
| Fitting option           | -    | None                                                                           |
| Fitting style            | -    | None                                                                           |
| Fitting type             | -    | None                                                                           |
| Fitting material         | -    | None                                                                           |
| Suction cup model        | -    | B20                                                                            |
| Movement, vertical max.  | in   | 0.39                                                                           |
| Curve radius, min.       | in   | 0.39                                                                           |

Performance - Lifting forces

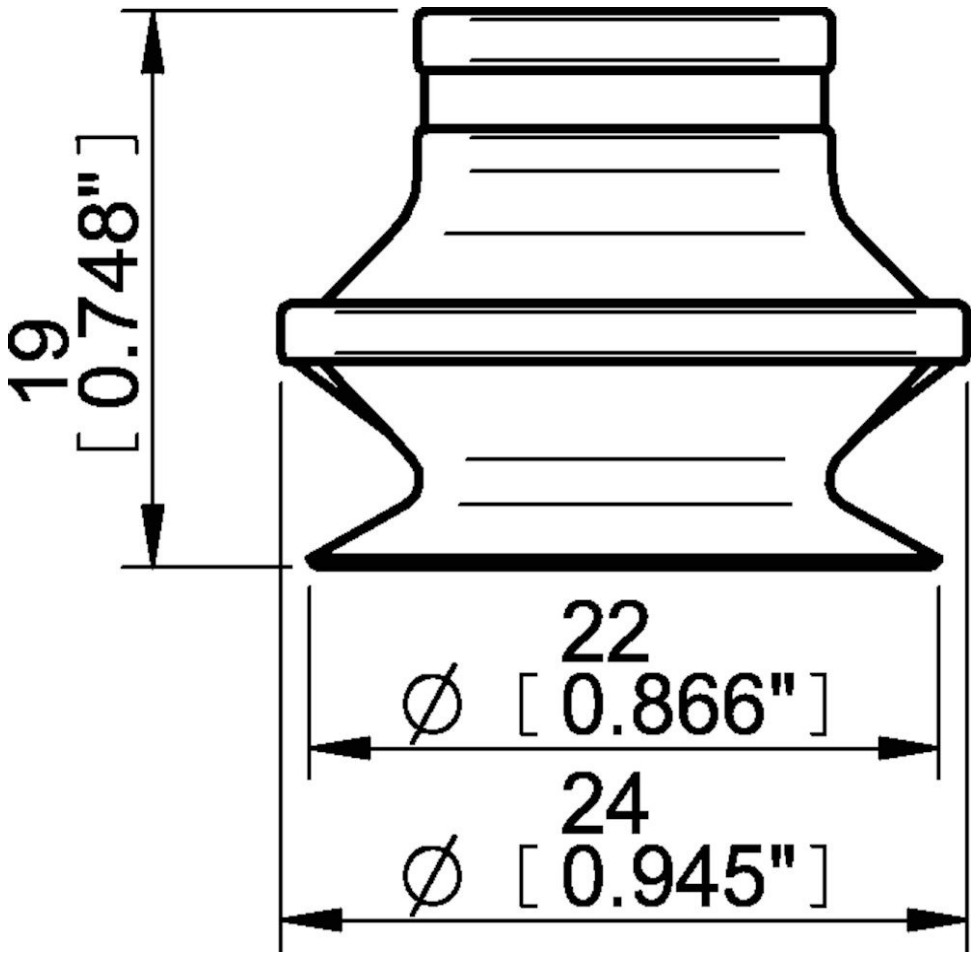
| B20         | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg  | 1.33          | 0.65          |
| 17.72 -inHg | 2.2           | 1.21          |
| 26.58 -inHg | 3.15          | 1.85          |

| Material               |                              |
|------------------------|------------------------------|
| Name                   | Silicone (SIL FDA) 50° Shore |
| Color                  | Transparent                  |
| Temperature, min.   °F | -40                          |
| Temperature max.   °F  | 392                          |
| Hardness   °Shore A    | 50                           |

Material resistance

|                    |           |
|--------------------|-----------|
| Alcohol            | Good      |
| Concentrated acids | Poor      |
| Ethanol            | Good      |
| Hydrolysis         | Fair      |
| Methanol           | Good      |
| 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

- 02AF | Fitting G1/8" male/M5 female, with mesh filter
- 02AB | Fitting G1/8" male, with mesh filter
- 02AC | Fitting 1/8" NPT male, with mesh filter