

# Suction cup BL50-2 Silicone, 1/8" NPSF female, with mesh filter

Item number: BL50-2.20.05AG



- Suitable for level adjustment.
- Lifting movement to separate small and thin objects.
- Less suitable when the lifting force is parallel to the surface of the object.
- Optional reinforcement rings made of polyamide.

Technical data

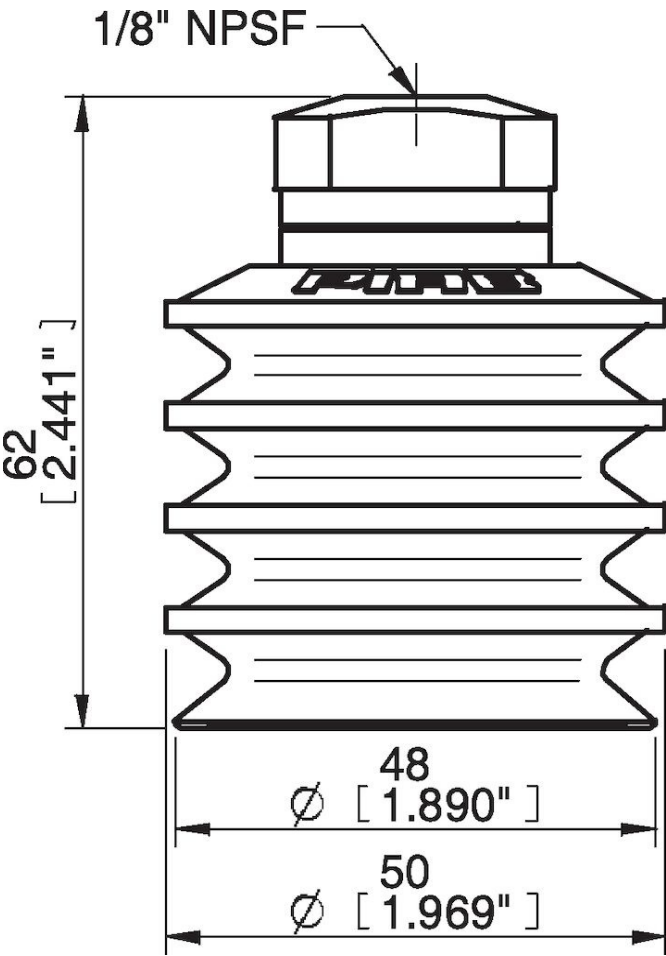
| Description              | Unit            | Value                     |
|--------------------------|-----------------|---------------------------|
| Suction cup shape        | -               | Multibellows              |
| Application              | -               | Bag handling              |
| Suction cup design       | -               | Round                     |
| Characteristics          | -               | Bag handling              |
| Material                 | -               | Silicone (SIL)            |
| Weight, min.             | oz              | 0.71                      |
| Suction cup model        | -               | BL-2                      |
| Volume                   | in <sup>3</sup> | 3.23                      |
| Height                   | in              | 2.44                      |
| Outer diameter, min.     | in              | 1.89                      |
| Outer diameter, actuated | in              | 1.97                      |
| Fitting size             | -               | 1/8"                      |
| Fitting option           | -               | Filter mesh               |
| Fitting style            | -               | Female                    |
| Fitting type             | -               | NPSF-thread               |
| Suction cup model        | -               | BL50-2 reinforcement ring |
| Movement, vertical max.  | in              | 1.18                      |
| Suction cup model        | -               | BL50-2                    |
| Movement, vertical max.  | in              | 1.18                      |
| Curve radius, min.       | in              | 0.51                      |

Performance - Lifting forces

| BL50-2 reinforcement ring | Vertical (lb) | Parallel (lb) |
|---------------------------|---------------|---------------|
| 5.91 -inHg                | 3.82          |               |
| 17.72 -inHg               | 9.67          |               |
| BL50-2                    |               |               |
| 5.91 -inHg                | 4.72          |               |
| 17.72 -inHg               | 10.79         |               |

|                            |                           |
|----------------------------|---------------------------|
| <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**

05AF | Fitting 5x1/8" NPSF female, 50  
BL50-2.10 | Suction cup BL50-2 Chloroprene  
05AI | Fitting G1/8" male, 50, with mesh filter  
05CA | Fitting 1/8" NPSF female, 50, PA  
05AA | Fitting 1/8" NPSF female, 50  
05AD | Fitting G3/8" male, 50, with mesh filter  
05AE | Fitting 3/8" NPT male, with mesh filter  
05AB | Fitting G1/4" male, 50, with mesh filter  
05AC | Fitting 1/4" NPT male, with mesh filter  
05DA | Fitting 1/8" NPSF female, 50, with dual flow control valve  
05DB | Fitting G1/4" male, with dual flow control valve  
05DC | Fitting 1/4" NPT male, with dual flow control valve  
05DD | Fitting G3/8" male, 50, with mesh filter and dual flow control valve  
05DE | Fitting 3/8" NPT male, with dual flow control valve  
05DF | Fitting 5x1/8" NPSF female, 50, with dual flow control valve  
31.50.074 | Strengthening ring set BL50, Set of 4

### **Spare parts**

BL50-2.20 | Suction cup BL50-2 Silicone  
05AG | Fitting 1/8" NPSF female, 50, with mesh filter