

# Suction cup B50 Nitrile-PVC, G1/4" male, with mesh filter

Item number: B50.30.05AB



- 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

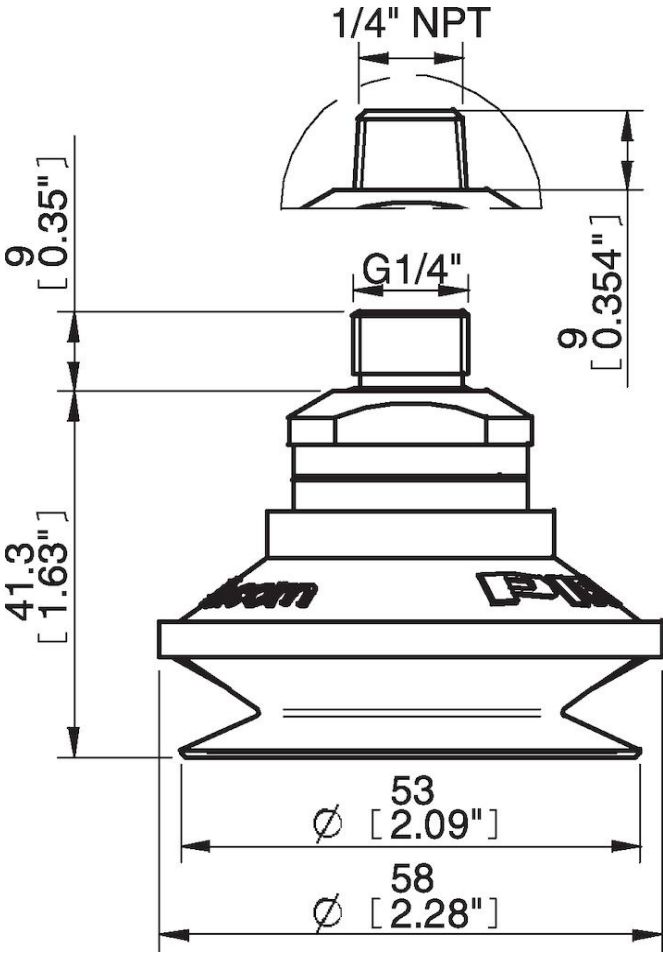
| Description              | Unit | Value                                           |
|--------------------------|------|-------------------------------------------------|
| Suction cup shape        | -    | Bellows                                         |
| Application              | -    | Dry sheet metal, Plastic injection molded parts |
| Suction cup design       | -    | Round                                           |
| Characteristics          | -    | Dry sheet metal, Plastic injection molded parts |
| Material                 | -    | Nitrile-PVC (NPV)                               |
| Weight, min.             | oz   | 0.71                                            |
| Suction cup model        | -    | B                                               |
| Volume                   | in³  | 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         |

|                            |                   |
|----------------------------|-------------------|
| <b>Material</b>            |                   |
| Name                       | Nitrile-PVC (NPV) |
| Color                      | Black             |
| Temperature, min.   °F     | 32.0              |
| Temperature max.   °F      | 194.0             |
| Hardness   °Shore A        | 50                |
| <b>Material resistance</b> |                   |
| Alcohol                    | Good              |
| Concentrated acids         | Fair              |
| Ethanol                    | n/a               |
| Hydrolysis                 | Good              |
| Methanol                   | n/a               |
| Oil                        | Excellent         |
| Oxidation                  | Good              |
| Gasoline                   | Excellent         |
| Wear resistance            | Excellent         |
| Weather and ozone          | Good              |

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  
B50.20 | Suction cup B50 Silicone  
05AG | Fitting 1/8" NPSF female, 50, with mesh filter  
B50.37 | Suction cup B50 HNBR  
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  
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

### **Spare parts**

B50.30 | Suction cup B50 Nitrile-PVC  
05AB | Fitting G1/4" male, 50, with mesh filter