

# Datasheet

## Suction cup B75-2 Nitrile-PVC with filter, 3/8" NPSF female, with mesh filter

Item number: B75-2.30.07NE



- 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.
- Lifting movement 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.
- Filter disk made of PE.

### Technical data

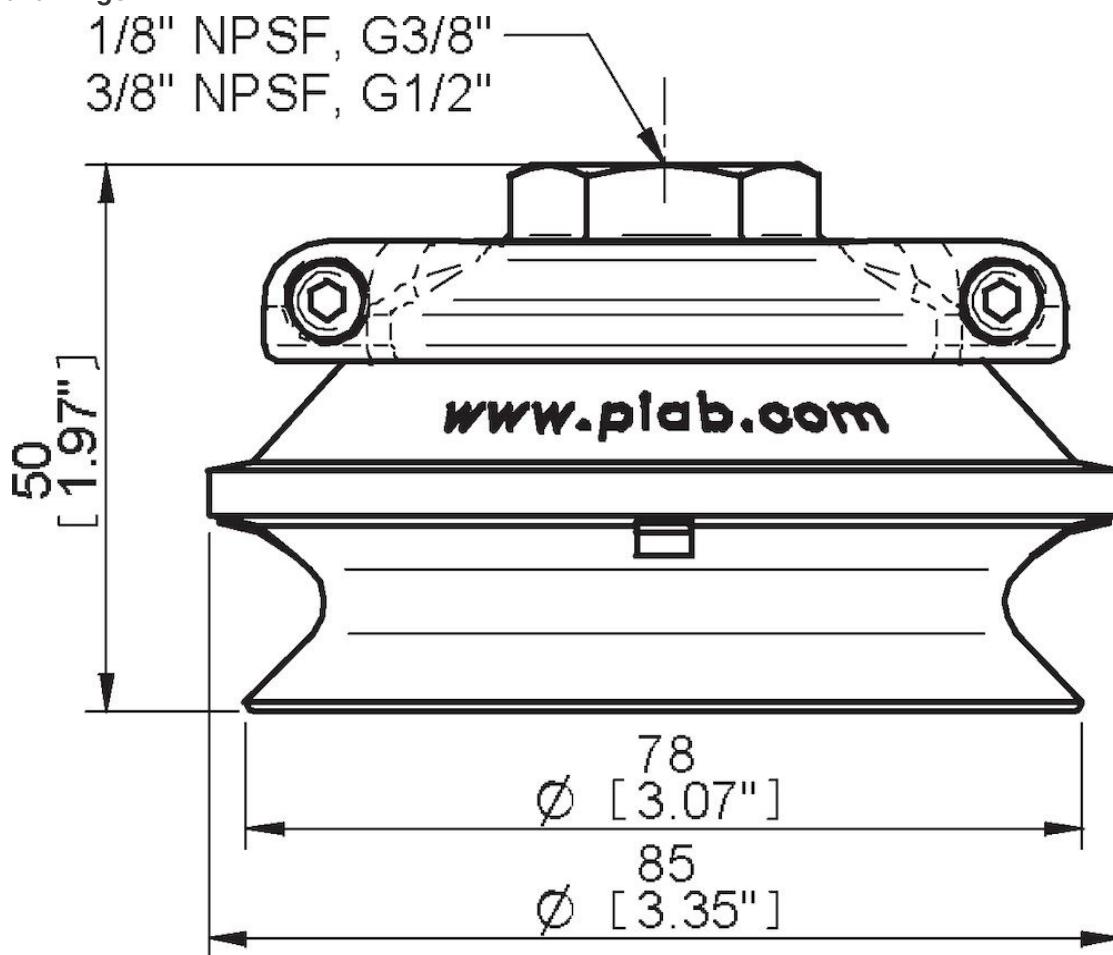
| Description              | Unit            | Value   |
|--------------------------|-----------------|---|
| Suction cup shape        | -               | Bellows   |
| Application              | -               | Dry sheet metal, Plastic injection molded parts |
| Suction cup design       | -               | Round   |
| Characteristics          | -               | Dry sheet metal, Plastic injection molded parts |
| Material                 | -               | Nitrile-PVC (NPV)                               |
| Weight, min.             | oz              | 1.23  |
| Suction cup model        | -               | B   |
| Volume                   | in <sup>3</sup> | 6.71  |
| Height                   | in              | 1.97  |
| Outer diameter, min.     | in              | 3.13  |
| Outer diameter, actuated | in              | 3.46  |
| Fitting size             | -               | 3/8"  |
| Fitting option           | -               | Filter mesh                                     |
| Fitting style            | -               | Female  |
| Fitting type             | -               | NPSF-thread                                     |
| Suction cup model        | -               | B75   |
| Movement, vertical max.  | in              | 0.94  |
| Curve radius, min.       | in              | 1.57  |

### Performance - Lifting forces

| B75         | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg  | 16.64         | 14.028        |
| 17.72 -inHg | 37.54         | 27.52         |
| 26.58 -inHg | 50.81         | 34.64         |

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

07NA | Fitting 75, 1/8" NPSF female, clamp ring with mesh filter  
07ND | Fitting 75, G3/8" female, clamp ring with mesh filter  
07NF | Fitting 75, G1/2" female, clamp ring with mesh filter  
B75-2.20 | Suction cup B75-2 Silicone, with filter  
07UA | Fitting 1/8" NPSF female AI, with mesh filter  
07UD | Fitting G1/2" female AI, with mesh filter  
07UH | Fitting 1/4" NPT female AI, with mesh filter & 10-32 addl. conn.  
02.01.149 | Filter D=80, 10 pcs, for B75-2  
B75-2.30.W | Suction cup B75-2 Nitrile-PVC, with filter & washer  
B75-2.20.W | Suction cup B75-2 Silicone, with filter & washer

## **Spare parts**

07NE | Fitting 75, 3/8" NPSF female, with mesh filter  
B75-2.30 | Suction cup B75-2 Nitrile-PVC, with filter