

# Datasheet

## Suction cup BL40-2 Chloroprene, 1/4" NPT male, with dual flow control valve

Item number: BL40-2.10.04DC



- 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                | -               | Chloroprene (CR)                     |
| Weight, min.            | oz              | 0.35                                 |
| Suction cup model       | -               | BL-2                                 |
| Volume                  | in <sup>3</sup> | 1.65                                 |
| Leakage flow, max.      | scfm            | 0.28                                 |
| Height                  | in              | 2.26                                 |
| Outer diameter, min.    | in              | 1.57                                 |
| Fitting size            | -               | 1/4"                                 |
| Fitting option          | -               | Dual flow control valve, Filter mesh |
| Fitting style           | -               | Male                                 |
| Fitting type            | -               | NPT-thread                           |
| Valve restriction       | in              | 0.035                                |
| Suction cup model       | -               | BL40-2 reinforcement ring            |
| Movement, vertical max. | in              | 1.063                                |
| Suction cup model       | -               | BL40-2                               |
| Movement, vertical max. | in              | 1.063                                |
| Curve radius, min.      | in              | 0.43                                 |

### Performance - Lifting forces

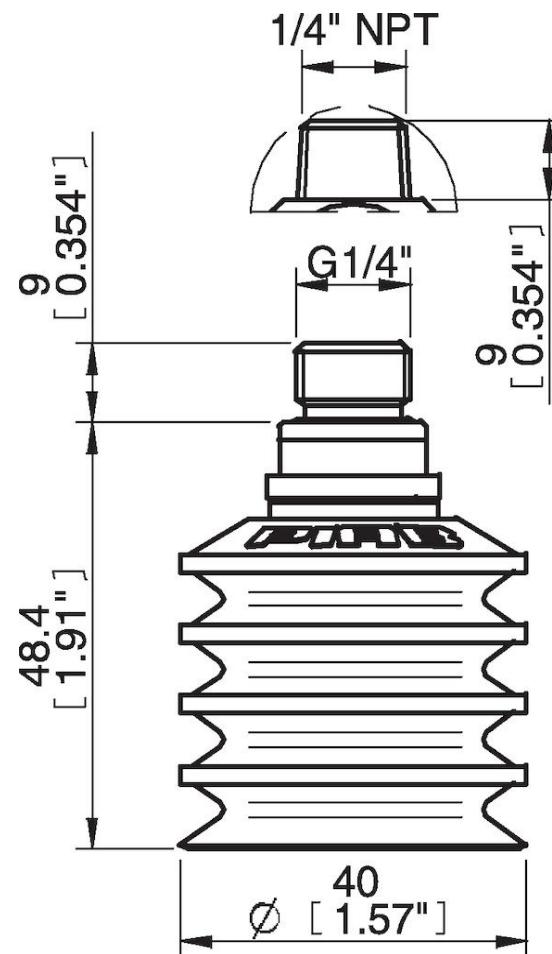
|                           | Vertical (lb) | Parallel (lb) |
|---------------------------|---------------|---------------|
| BL40-2 reinforcement ring |               |               |
| 5.91 -inHg                | 2.47          |               |
| 17.72 -inHg               | 4.95          |               |
| BL40-2                    |               |               |
| 5.91 -inHg                | 2.47          |               |
| 17.72 -inHg               | 6.74          |               |

|                        |                              |
|------------------------|------------------------------|
| <b>Material</b>        |                              |
| Name                   | Chloroprene (CR) 50° Shore A |
| Color                  | Black                        |
| Temperature, min.   °F | -40.0                        |
| Temperature max.   °F  | 230.0                        |
| Hardness   °Shore A    | 50                           |

#### Material resistance

|                    |           |
|--------------------|-----------|
| Alcohol            | Good      |
| Concentrated acids | Poor      |
| Ethanol            | n/a       |
| Hydrolysis         | Good      |
| Methanol           | n/a       |
| Oil                | Fair      |
| Oxidation          | Good      |
| Gasoline           | Fair      |
| 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

04AF | Fitting 5x1/8" NPSF female, 30–40  
BL40-2.20 | Suction cup BL40-2 Silicone  
04AG | Fitting 1/8" NPSF female, 30–40, with mesh filter  
04AI | Fitting G1/8" male, 40, with mesh filter  
04CA | Fitting 1/8" NPSF female, 30–40, PA  
04AA | Fitting 1/8" NPSF female, 30–40  
04AD | Fitting G3/8" male, 30–40, with mesh filter  
04AE | Fitting 3/8" NPT male, with mesh filter  
04AB | Fitting G1/4" male, 30–40, with mesh filter  
04AC | Fitting 1/4" NPT male, with mesh filter  
04DA | Fitting 1/8" NPSF female, 30–40, with dual flow control valve  
04DB | Fitting G1/4" male, 30–40, with dual flow control valve  
04DD | Fitting G3/8" male, 30–40, with dual flow control valve  
04DE | Fitting 3/8" NPT male, with dual flow control valve  
04DF | Fitting 5x1/8" NPSF female, 30–40, with dual flow control valve  
31.50.073 | Strengthening ring set BL40, Set of 4

## Spare parts

BL40-2.10 | Suction cup BL40-2 Chloroprene  
04DC | Fitting 1/4" NPT male, with dual flow control valve