

# Datasheet

## Suction cup B30-2 Silicone, G1/4" male, with dual flow control valve

Item number: B30-2.20.04DB



- 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	-	Silicone (SIL)
Weight, min.	oz	0.25
Suction cup model	-	B
Volume	in <sup>3</sup>	0.61
Leakage flow, max.	scfm	0.28
Height	in	1.62
Outer diameter, min.	in	1.36
Outer diameter, actuated	in	1.51
Fitting size	-	1/4"
Fitting option	-	Dual flow control valve, Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Valve restriction	in	0.035
Suction cup model	-	B30-2
Movement, vertical max.	in	0.55
Curve radius, min.	in	0.59

### Performance - Lifting forces

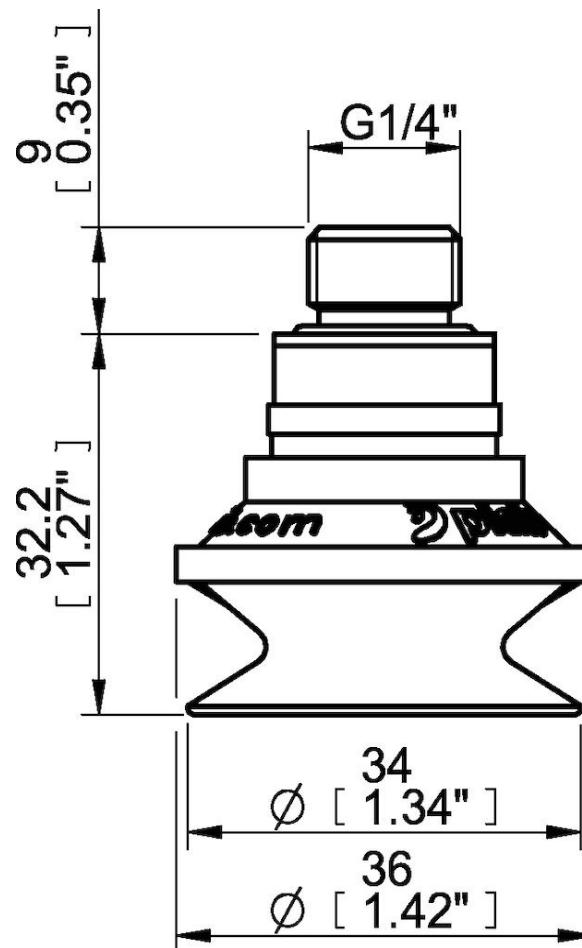
B30-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	2.70	2.11
17.72 -inHg	4.95	3.73
26.58 -inHg	6.070	4.99

<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

#### Material resistance

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**

04AF | Fitting 5x1/8" NPSF female, 30–40  
B30-2.10 | Suction cup B30-2 Chloroprene  
04AG | Fitting 1/8" NPSF female, 30–40, with mesh filter  
B30-2.37 | Suction cup B30-2 HNBR  
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  
04DC | Fitting 1/4" NPT male, 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  
02.01.148 | Filter D=34, HDPE, 20 pcs

## **Spare parts**

B30-2.20 | Suction cup B30-2 Silicone  
04DB | Fitting G1/4" male, 30–40, with dual flow control valve