

# Datasheet

## Suction cup B50-2 Silicone FCM with filter, 1/4" NPT male, with mesh filter

Item number: B50-2.21.05AC



- The silicone material complies with FDA 21 CFR 177.2600 & EU 1935/2004.
- 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
Suction cup design	-	Round
Characteristics (for filtering)	-	Food contact materials (FDA & EU). non-detectable. High/low temp cup (plastic)
Material	-	Silicone (SIL)
Weight, min.	oz	0.71
Suction cup model	-	B
Volume	in <sup>3</sup>	1.95
Height	in	1.98
Outer diameter, min.	in	2.067
Fitting size	-	1/4"
Fitting option	-	Filter mesh. Filter disc
Fitting style	-	Male
Fitting type	-	NPT-thread
Fitting material	-	Al
Suction cup model	-	B50-2
Movement, vertical max.	in	0.49
Curve radius, min.	in	1.18

### Performance - Lifting forces

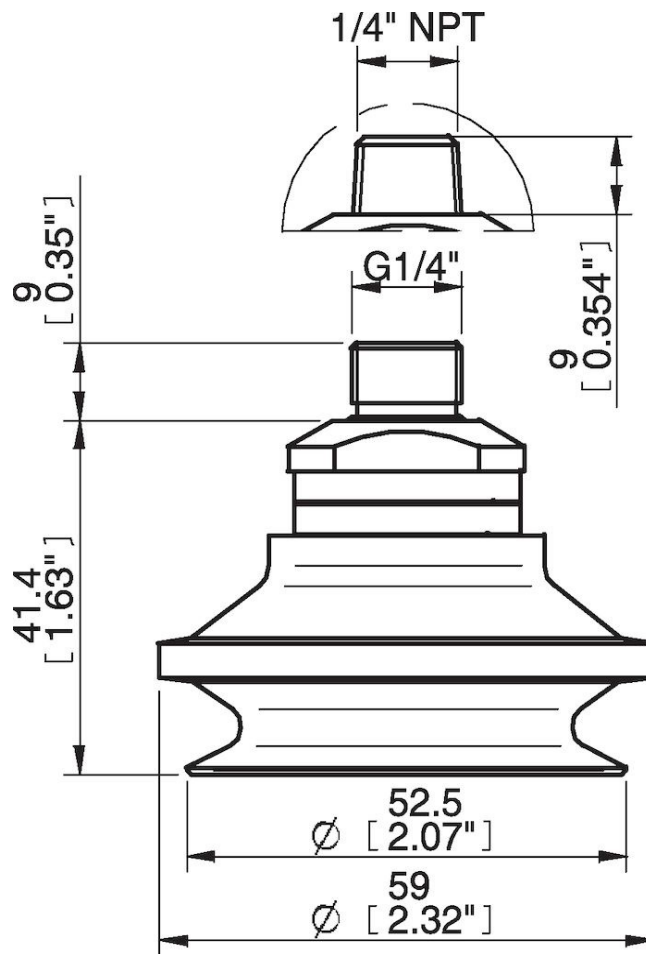
B50-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	7.42	5.44
17.72 -inHg	14.61	11.51
26.58 -inHg	18.43	13.67

Material	
Name	Silicone (SIL FDA) 50° Shore
Color	Transparent
Temperature, min.   °F	-40
Temperature max.   °F	392
Hardness   °Shore A	50

### Material resistance

Alcohol	Good
Concentrated acids	Poor
Ethanol	Not applicable
Hydrolysis	Fair
Methanol	Not applicable
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

- 05AG | Fitting 1/8" NPSF female, 50, with mesh filter
- 05AB | Fitting G1/4" male, 50, with mesh filter

### Spare parts

- 01.04.655 | Filter D=54, 20 pcs, for B50-2
- B50-2.21 | Suction cup B50-2 Silicone FCM, with filter disk
- 05AC | Fitting 1/4" NPT male, with mesh filter