

# Datasheet

## Suction cup F50-2 Silicone FCM, G1/4" male, with mesh filter

Item number: F50-2.21.05AB



- The silicone material complies with FDA 21 CFR 177.2600 & EU 1935/2004.
- Suitable for flat objects.
- Good stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.
- Cleats prevent thin, sensitive objects from being deformed and gives extra friction when the lifting force is parallel.

### Technical data

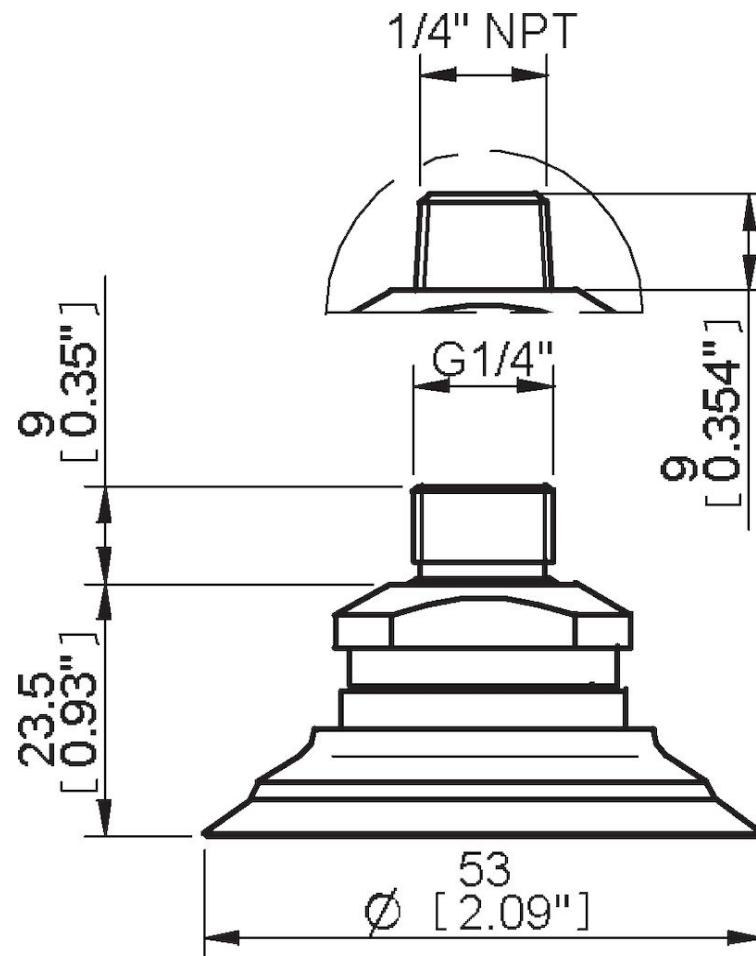
Description	Unit	Value
Suction cup shape	-	Flat
Application	-	Food contact materials (FDA & EU), non-detectable
Suction cup design	-	Round
Characteristics	-	Food contact materials (FDA & EU), non-detectable
Material	-	Silicone (SIL)
Weight, min.	oz	0.49
Suction cup model	-	F
Volume	in <sup>3</sup>	0.61
Height	in	1.28
Outer diameter, min.	in	2.087
Outer diameter, actuated	in	2.15
Fitting size	-	1/4"
Fitting option	-	Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Suction cup model	-	F50-2
Movement, vertical max.	in	0.087
Curve radius, min.	in	2.17

### Performance - Lifting forces

F50-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	8.093	5.40
17.72 -inHg	16.64	8.99
26.58 -inHg	21.58	11.24

<b>Material</b>	
Name	Silicone (SIL FDA) 50° Shore
Color	Transparent
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

05AG | Fitting 1/8" NPSF female, 50, with mesh filter  
 05AC | Fitting 1/4" NPT male, with mesh filter

**Spare parts**

F50-2.21 | Suction cup F50-2 Silicone FCM  
05AB | Fitting G1/4" male, 50, with mesh filter