

# Datasheet

## Suction cup F20 Silicone FCM, G1/8" male, with mesh filter

Item number: F20.21.02AB



- 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	0.042
Suction cup model	-	F
Volume	in <sup>3</sup>	0.061
Height	in	0.79
Outer diameter, min.	in	0.87
Outer diameter, actuated	in	0.91
Fitting size	-	1/8"
Fitting option	-	Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Suction cup model	-	F20
Movement, vertical max.	in	0.047
Curve radius, min.	in	0.71

### Performance - Lifting forces

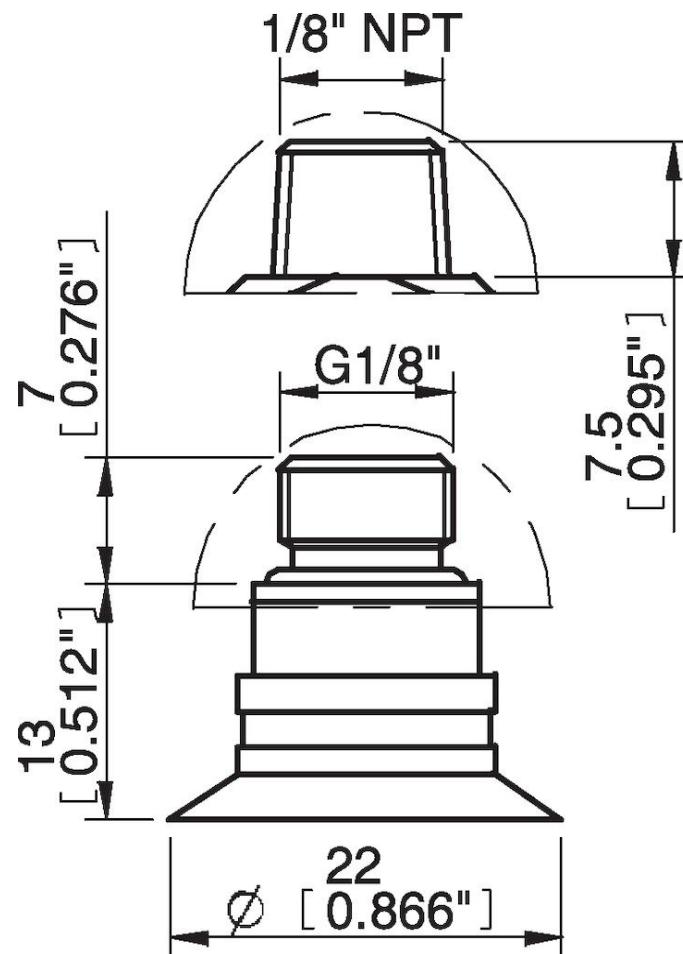
F20	Vertical (lb)	Parallel (lb)
5.91 -inHg	1.35	1.12
17.72 -inHg	3.26	1.80
26.58 -inHg	4.27	1.91

Name	Silicone (SIL FDA) 50° Shore
Color	Transparent
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

02AF | Fitting G1/8" male/M5 female, with mesh filter  
02AC | Fitting 1/8" NPT male, with mesh filter

**Spare parts**

F20.21 | Suction cup F20 Silicone FCM  
02AB | Fitting G1/8" male, with mesh filter