

Datasheet

Suction cup F50-2 Silicone, 3/8" NPT male, with dual flow control valve

Item number: F50-2.20.05DE



- FDA/EU compliant silicone for regulated industries
- Flat design for secure, stable handling
- Resistant to chemicals and high temperatures
- Hygienic and easy to clean
- Ideal for food, pharma, and sensitive applications
- Recommended when the lifting force is parallel to the surface of the object.

Technical data

Description	Unit	Value
Suction cup shape	-	Flat
Suction cup design	-	Round
Characteristics (for filtering)	-	High/low temp cup (plastic)
Material	-	Silicone (SIL)
Weight, min.	oz	0.49
Suction cup model	-	F
Volume	in ³	0.61
Leakage flow, max.	scfm	0.34
Height	in	1.32
Outer diameter, min.	in	2.087
Fitting size	-	3/8"
Fitting option	-	Dual flow control valve
Fitting style	-	Male
Fitting type	-	NPT-thread
Valve restriction	in	0.039
Fitting material	-	Al
Suction cup model	-	F50-2
Movement, vertical max.	in	0.087
Curve radius, min.	in	2.17

Performance - Lifting forces

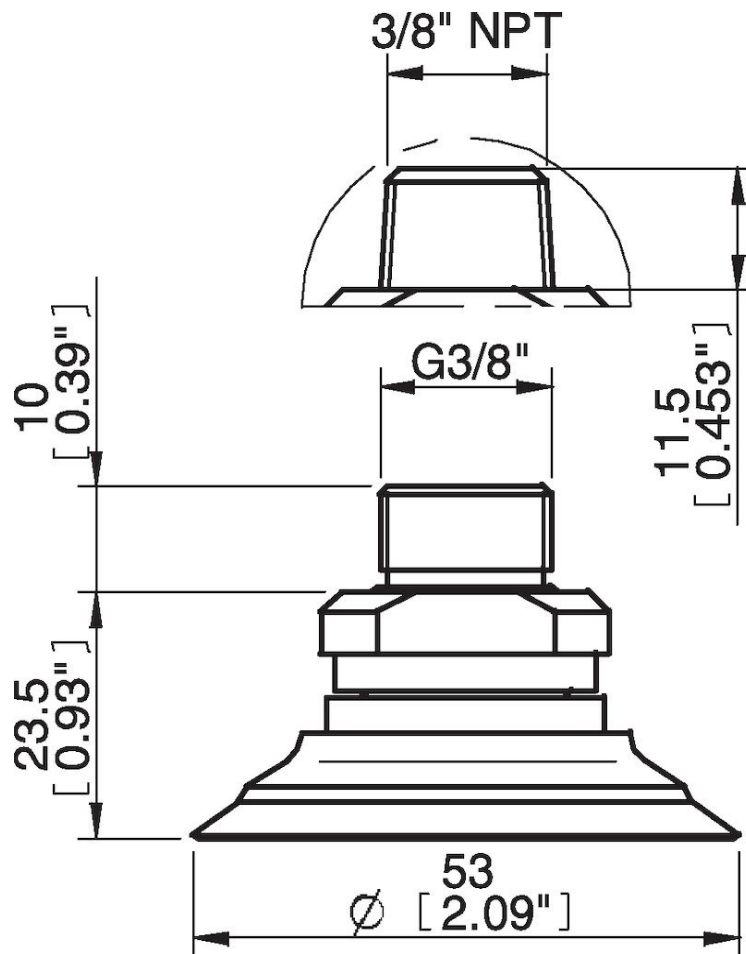
F50-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	8.093	5.4
17.72 -inHg	16.64	8.99
26.58 -inHg	21.58	11.24

Material	
Name	Silicone. SIL 50° Shore A
Color	Red
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

05AF | Fitting 5x1/8" NPSF female, 50
F50-2.30 | Suction cup F50-2 Nitrile-PVC
05AG | Fitting 1/8" NPSF female, 50, with mesh filter
05UV | Fitting 1/8" NPSF female, 50, with cone valve
F50-2.37 | Suction cup F50-2 HNBR
05CA | Fitting 1/8" NPSF female, 50, PA
05AA | Fitting 1/8" NPSF female, 50
05AD | Fitting G3/8" male, 50, with mesh filter
05AE | Fitting 3/8" NPT male, with mesh filter
05AB | Fitting G1/4" male, 50, with mesh filter
05AC | Fitting 1/4" NPT male, with mesh filter
05DA | Fitting 1/8" NPSF female, 50, with dual flow control valve
05DB | Fitting G1/4" male, with dual flow control valve
05DC | Fitting 1/4" NPT male, with dual flow control valve
05DD | Fitting G3/8" male, 50, with mesh filter and dual flow control valve
05DF | Fitting 5x1/8" NPSF female, 50, with dual flow control valve
31.50.241P | Suction cup F50-2 Nitrile-PVC
31.50.241S | Suction cup F50-2 Silicone, for fitting with cone valve

Spare parts

F50-2.20 | Suction cup F50-2 Silicone
05DE | Fitting 3/8" NPT male, with dual flow control valve