

Datasheet

Suction cup B50-2 Silicone with filter, 1/8" NPSF female, with dual flow control valve

Item number: B50-2.20.05DA



- 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.
- Lifting movement 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.
- Filter disk made of PE.

Technical data

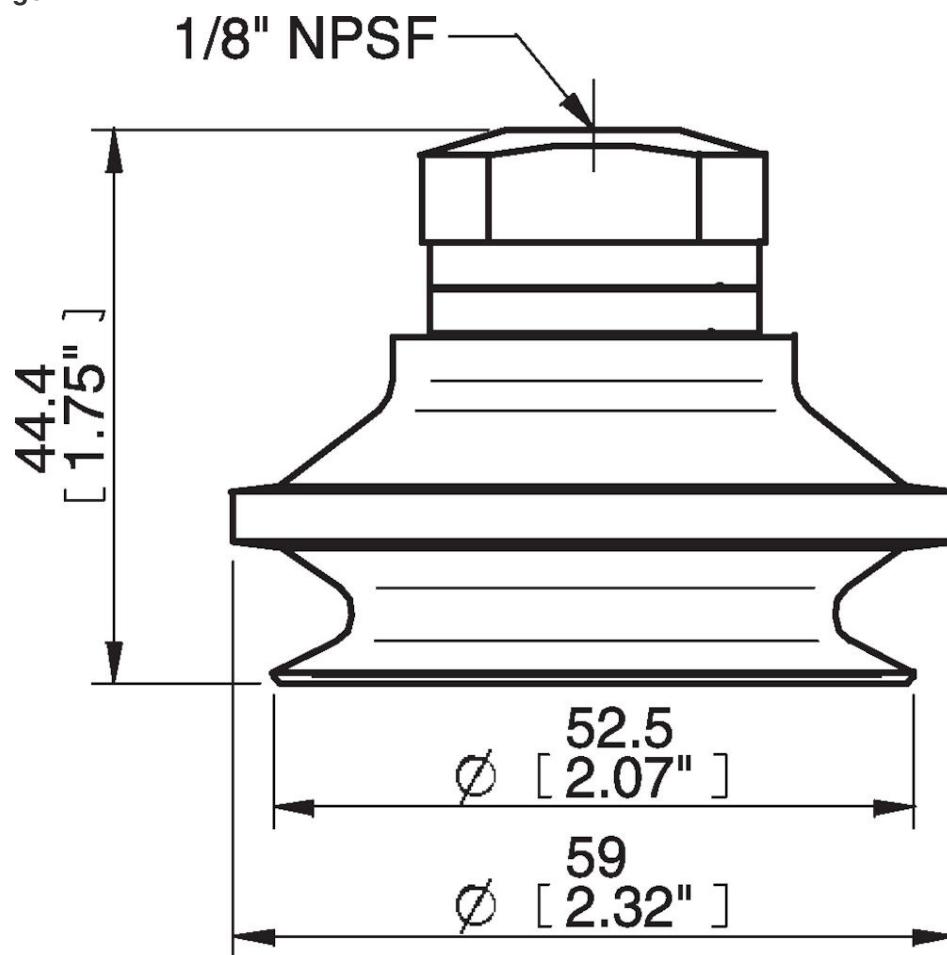
Description	Unit	Value
Suction cup shape	-	Bellows
Application	-	Dry sheet metal, Plastic injection molded parts
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Plastic injection molded parts
Material	-	Silicone (SIL)
Weight, min.	oz	0.71
Suction cup model	-	B
Volume	in ³	1.95
Leakage flow, max.	scfm	0.34
Height	in	1.75
Outer diameter, min.	in	2.039
Outer diameter, actuated	in	2.32
Fitting size	-	1/8"
Fitting option	-	Dual flow control valve, Filter disc
Fitting style	-	Female
Fitting type	-	NPSF-thread
Valve restriction	in	0.039
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 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

05AF | Fitting 5x1/8" NPSF female, 50
B50-2.30 | Suction cup B50-2 Nitrile-PVC, with filter disk
05AG | Fitting 1/8" NPSF female, 50, with mesh filter
01.04.655 | Filter D=54, 20 pcs, for B50-2
05AI | Fitting G1/8" male, 50, with mesh filter
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
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
05DE | Fitting 3/8" NPT male, with dual flow control valve
05DF | Fitting 5x1/8" NPSF female, 50, with dual flow control valve

Spare parts

B50-2.20 | Suction cup B50-2 Silicone, with filter disk
05DA | Fitting 1/8" NPSF female, 50, with dual flow control valve