

Datasheet

Suction cup B50-2 Nitrile-PVC, 3/8" NPT male, with mesh filter

Item number: B50-2.30.05AE



- 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
Material	-	Nitrile-PVC (NPV)
Weight, min.	oz	0.71
Suction cup model	-	B
Volume	in ³	1.95
Height	in	2.024
Outer diameter, min.	in	2.067
Fitting size	-	3/8"
Fitting option	-	Filter mesh
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

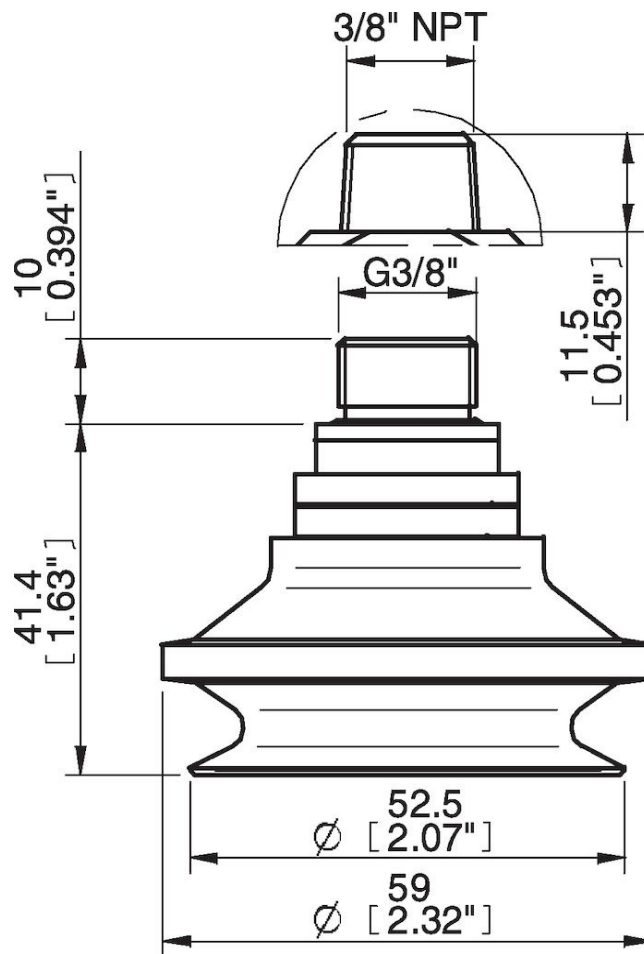
B50-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	7.42	5.44
17.72 -inHg	14.61	11.51
26.58 -inHg	18.43	13.67

Material	
Name	Nitrile-PVC (NPV)
Color	Black
Temperature, min. °F	32
Temperature max. °F	194
Hardness °Shore A	50

Material resistance

Alcohol	Good
Concentrated acids	Fair
Ethanol	Not applicable
Hydrolysis	Good
Methanol	Not applicable
Oil	Excellent
Oxidation	Good
Gasoline	Excellent
Wear resistance	Excellent
Weather and ozone	Good

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
B50-2.20 | Suction cup B50-2 Silicone, 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
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
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

B50-2.30 | Suction cup B50-2 Nitrile-PVC, with filter disk
05AE | Fitting 3/8" NPT male, with mesh filter