

# Suction cup U50-2 Nitrile-PVC, G1/4" male, with mesh filter

Item number: U50-2.30.05AB

- Suitable for objects with flat or slightly curved surfaces.
- Also used for concave objects.



Technical data

Description	Unit	Value
Suction cup shape	-	Universal
Application	-	Dry sheet metal, Plastic injection molded parts
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Plastic injection molded parts
Material	-	Nitrile-PVC (NPV)
Weight, min.	oz	0.35
Suction cup model	-	U
Volume	in <sup>3</sup>	0.73
Height	in	1.28
Outer diameter, min.	in	2.024
Fitting size	-	1/4"
Fitting option	-	Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Suction cup model	-	U50-2
Movement, vertical max.	in	0.24
Curve radius, min.	in	1.38

Performance - Lifting forces

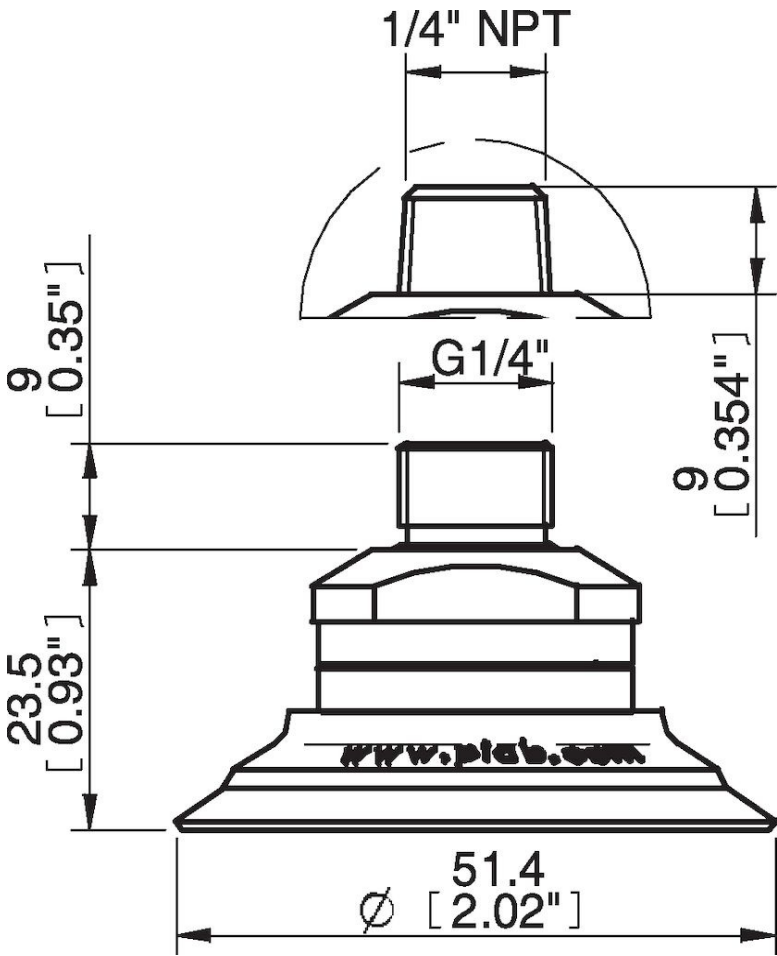
U50-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	7.87	4.50
17.72 -inHg	16.41	8.32
26.58 -inHg	20.68	9.89

<b>Material</b>	
Name	Nitrile-PVC (NPV)
Color	Black
Temperature, min.   °F	32.0
Temperature max.   °F	194.0
Hardness   °Shore A	50

**Material resistance**

Alcohol	Good
Concentrated acids	Fair
Ethanol	n/a
Hydrolysis	Good
Methanol	n/a
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  
U50-2.20 | Suction cup U50-2 Silicone  
05AG | Fitting 1/8" NPSF female, 50, with mesh filter  
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  
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**

U50-2.30 | Suction cup U50-2 Nitrile-PVC  
05AB | Fitting G1/4" male, 50, with mesh filter