

# Datasheet

## Suction cup U40-2 Nitrile-PVC, G1/4" male, with dual flow control valve

Item number: U40-2.30.04DB



- 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	0.14
Suction cup model	-	U
Volume	in <sup>3</sup>	0.34
Leakage flow, max.	scfm	0.28
Height	in	1.10
Outer diameter, min.	in	1.61
Fitting size	-	1/4"
Fitting option	-	Dual flow control valve, Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Valve restriction	in	0.035
Suction cup model	-	U40-2
Movement, vertical max.	in	0.18
Curve radius, min.	in	1.18

### Performance - Lifting forces

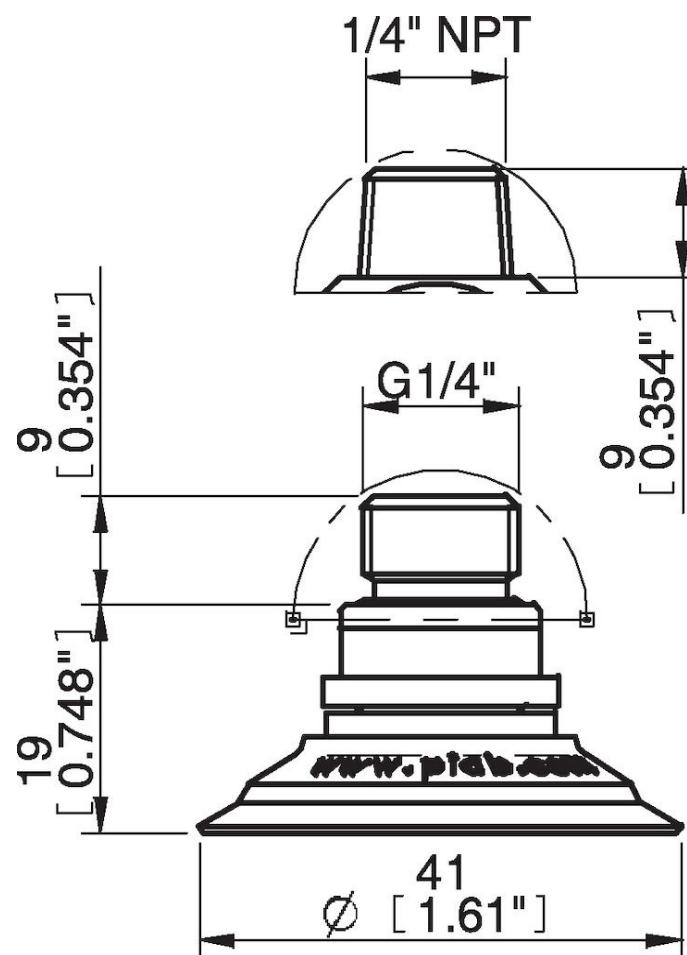
U40-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	4.50	3.15
17.72 -inHg	8.77	4.95
26.58 -inHg	11.016	6.070

<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

04AF | Fitting 5x1/8" NPSF female, 30–40  
U40-2.20 | Suction cup U40-2 Silicone  
04AG | Fitting 1/8" NPSF female, 30–40, with mesh filter  
04AI | Fitting G1/8" male, 40, with mesh filter  
04CA | Fitting 1/8" NPSF female, 30–40, PA  
04AA | Fitting 1/8" NPSF female, 30–40  
04AD | Fitting G3/8" male, 30–40, with mesh filter  
04AE | Fitting 3/8" NPT male, with mesh filter  
04AB | Fitting G1/4" male, 30–40, with mesh filter  
04AC | Fitting 1/4" NPT male, with mesh filter  
04DA | Fitting 1/8" NPSF female, 30–40, with dual flow control valve  
04DC | Fitting 1/4" NPT male, with dual flow control valve  
04DD | Fitting G3/8" male, 30–40, with dual flow control valve  
04DE | Fitting 3/8" NPT male, with dual flow control valve  
04DF | Fitting 5x1/8" NPSF female, 30–40, with dual flow control valve

## Spare parts

U40-2.30 | Suction cup U40-2 Nitrile-PVC  
04DB | Fitting G1/4" male, 30–40, with dual flow control valve