

# Suction cup F40-2 Nitrile-PVC, G1/4" male, with mesh filter and dual flow control valve

Item number: F40-2.30.04DB



- Suitable for flat objects.
- Good stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.
- Cleats prevent thin, sensitive objects from being deformed and gives extra friction when the lifting force is parallel.

Technical data

Description	Unit	Value
Suction cup shape	-	Flat
Application	-	Dry sheet metal
Suction cup design	-	Round
Characteristics	-	Dry sheet metal
Material	-	Nitrile-PVC (NPV)
Weight, min.	oz	0.19
Suction cup model	-	F
Volume	in³	0.29
Leakage flow, max.	scfm	0.28
Height	in	1.10
Outer diameter, min.	in	1.65
Outer diameter, actuated	in	1.72
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	-	F40-2
Movement, vertical max.	in	0.071
Curve radius, min.	in	2.047

Performance - Lifting forces

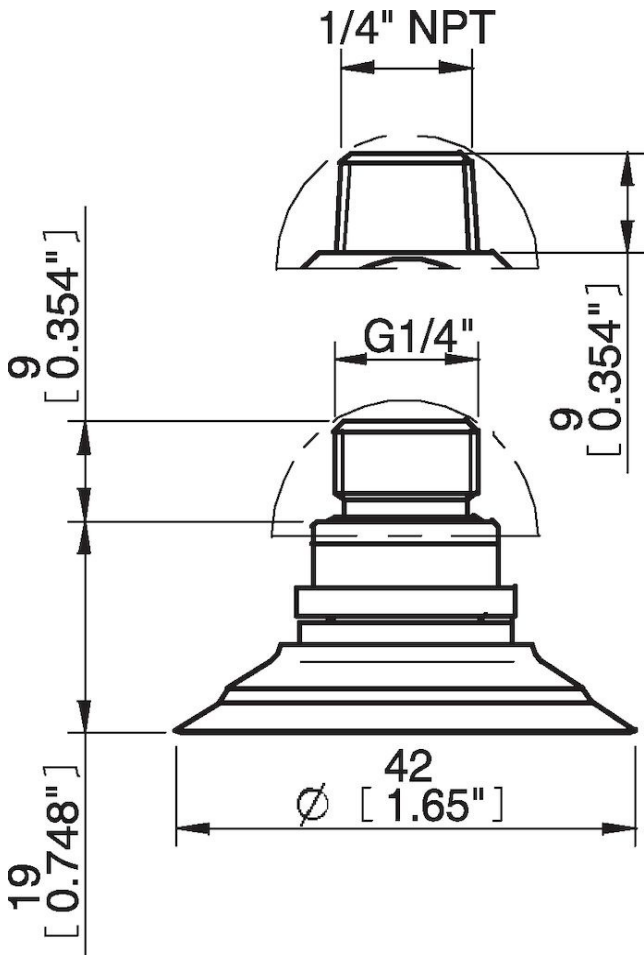
F40-2	Vertical (lb)	Parallel (lb)
5.91 -inHg	4.50	3.37
17.72 -inHg	8.99	5.62
26.58 -inHg	11.24	6.74

Material	
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

F40-2.20 | Suction cup F40-2 Silicone

04AG | Fitting 1/8" NPSF female, 30–40, with mesh filter

04UV | Fitting 1/8" NPSF female, 30–40, with cone valve

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**

F40-2.30 | Suction cup F40-2 Nitrile-PVC

04DB | Fitting G1/4" male, 30–40, with dual flow control valve