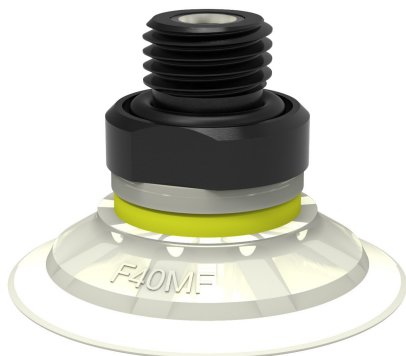


# Datasheet

## Suction cup F40MF Thermoelastic polyurethane, G1/4" male, with dual flow control valve

Item number: F40MF.40.04DB



- Suction cup of TPU, a mark free material that leaves no trace on the object being handled.
- Suitable for flat surfaces.
- Good stability and little inherent movement.
- Recommended when the lifting force is parallel to the surface of the object.

### Technical data

Description	Unit	Value
Suction cup shape	-	Flat
Application	-	Mark Free
Suction cup design	-	Round
Characteristics	-	Mark free
Material	-	TPE
Weight, min.	oz	0.21
Suction cup model	-	F-MF
Volume	in <sup>3</sup>	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	-	F40MF
Movement, vertical max.	in	0.071
Curve radius, min.	in	2.36

### Performance - Lifting forces

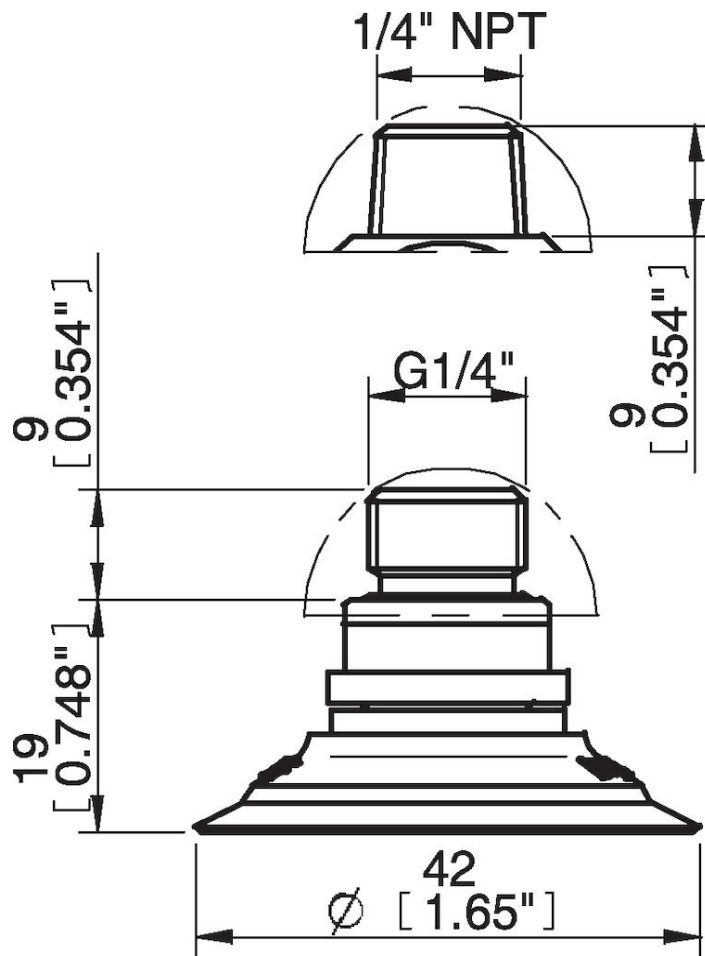
F40MF	Vertical (lb)	Parallel (lb)
5.91 -inHg	4.047	3.60
17.72 -inHg	12.81	11.016
26.58 -inHg	18.66	12.81

Material	
Name	Thermoplastic Polyurethane (TPE-U)
Color	White transparent
Temperature, min.   °F	-4.0
Temperature max.   °F	176.0
Hardness   °Shore A	81

### Material resistance

Alcohol	Good
Concentrated acids	Poor
Ethanol	n/a
Hydrolysis	Poor
Methanol	n/a
Oil	Excellent
Oxidation	Good
Gasoline	Poor
Wear resistance	Excellent
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**

04AF | Fitting 5x1/8" NPSF female, 30–40  
04AG | Fitting 1/8" NPSF female, 30–40, 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**

F40MF.40 | Suction cup F40MF Thermoelastic polyurethane  
04DB | Fitting G1/4" male, 30–40, with dual flow control valve