

# Datasheet

## Suction cup F20MF Thermoelastic polyurethane, G1/8" male, with mesh filter and dual flow control valve

Item number: F20MF.40.02DB



- 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	0.042
Suction cup model	-	F-MF
Volume	in <sup>3</sup>	0.061
Leakage flow, max.	scfm	0.13
Height	in	0.79
Outer diameter, min.	in	0.87
Outer diameter, actuated	in	0.91
Fitting size	-	1/8"
Fitting option	-	Dual flow control valve, Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Valve restriction	in	0.028
Restricted vacuum flow	scfm	1.48
Suction cup model	-	F20MF
Movement, vertical max.	in	0.047
Curve radius, min.	in	0.71

### Performance - Lifting forces

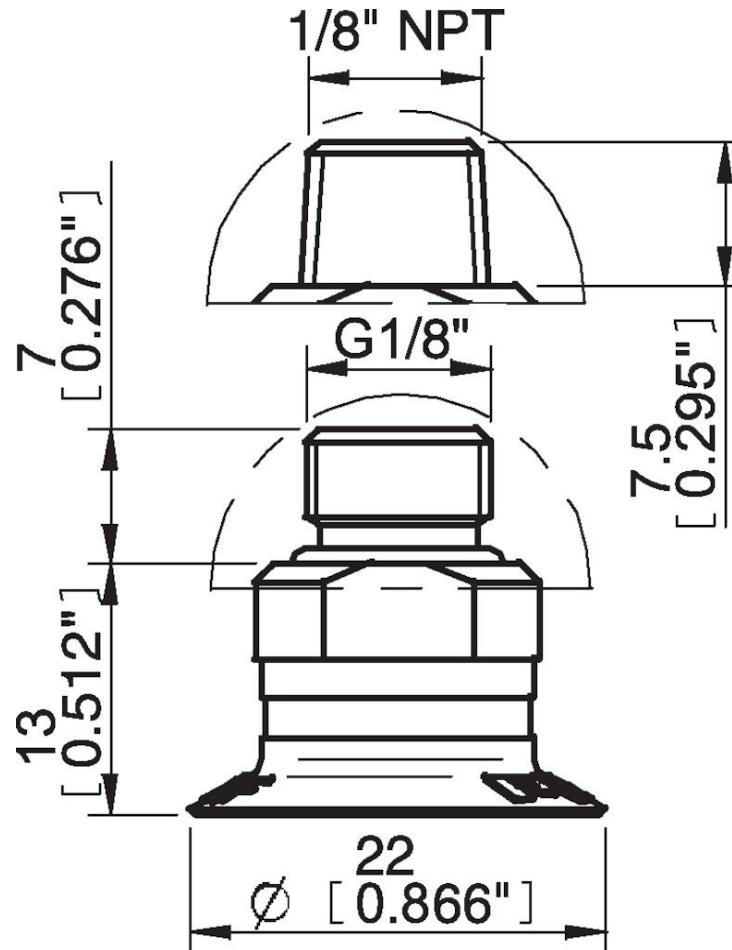
F20MF	Vertical (lb)	Parallel (lb)
5.91 -inHg	0.81	1.80
17.72 -inHg	3.26	3.26
26.58 -inHg	4.95	4.72

<b>Material</b>	
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

02AE | Fitting 5xM5 female  
02AF | Fitting G1/8" male/M5 female, with mesh filter  
02CD | Fitting G1/8" male/M5 female, PA  
02AA | Fitting M5 female  
02AD | Fitting G1/8" male/M5 female  
02AB | Fitting G1/8" male, with mesh filter  
02AC | Fitting 1/8" NPT male, with mesh filter  
02DA | Fitting M5 female, with dual flow control valve  
02DC | Fitting 1/8" NPT male, with dual flow control valve  
02DD | Fitting G1/8" male/M5 female, with dual flow control valve  
02DE | Fitting 5xM5 female, with dual flow control valve

## Spare parts

F20MF.40 | Suction cup F20MF Thermoelastic polyurethane