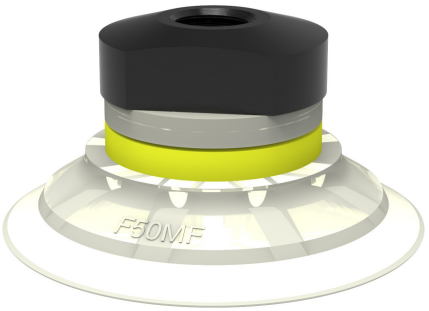
Datasheet

Suction cup F50MF Thermoelastic polyurethane, 1/8" NPSF female, with mesh filter

Article number: 0101791



- 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.	g	10
Suction cup model	-	F-MF
Volume	cm^3	10
Height	mm	26.5
Outer diameter, min.	mm	53
Outer diameter, actuated	mm	54.6
Fitting size	-	1/8"
Fitting option	-	Filter mesh
Fitting style	-	Female
Fitting type	-	NPSF-thread
Suction cup model	-	F50MF
Movement, vertical max.	mm	2.2
Curve radius, min.	mm	95

Performance - Lifting forces

F50MF	Vertical (N)	Parallel (N)
20 -kPa	24.5	31
60 -kPa	92	82
90 -kPa	141	107

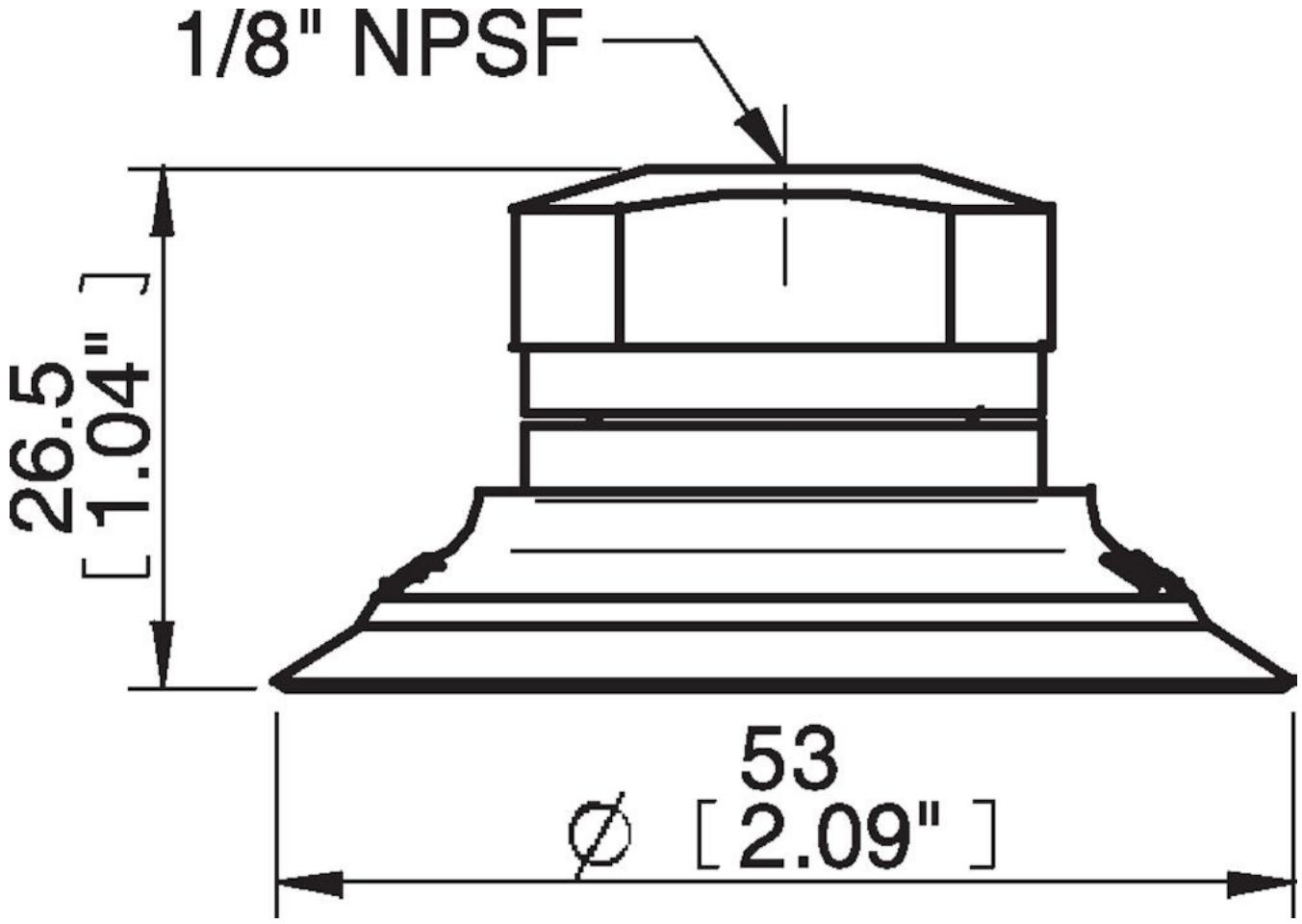
Material

Name	Thermoplastic Polyurethane (TPE-U)
Colour	White transparent
Temperature, min. | °C	-20
Temperature max. | °C	80
Hardness | °Shore A	81

Material resistance

Alcohol	Good
Concentrated acids	Poor
Ethanol	n/a
Hydrolysis	Poor
Methanol	n/a
Oil	Excellent
Oxidation	Good
Petrol	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
0100262 | Fitting 5x1/8" NPSF female, 50
3150198 | Fitting 1/8" NPSF female, 50, PA
3250017 | Fitting 1/8" NPSF female, 50
3250087 | Fitting G3/8" male, 50, with mesh filter
3250090 | Fitting 3/8" NPT male, with mesh filter
3250092 | Fitting G1/4" male, 50, with mesh filter
3250094 | Fitting 1/4" NPT male, with mesh filter
3251012 | Fitting 1/8" NPSF female, 50, with dual flow control valve
3251013 | Fitting G1/4" male, with mesh filter and dual flow control valve
3251014 | Fitting 1/4" NPT male, with dual flow control valve
3251015 | Fitting G3/8" male, 50, with mesh filter and dual flow control valve
3251016 | Fitting 3/8" NPT male, with dual flow control valve
3251017 | Fitting 5x1/8" NPSF female, 50, with dual flow control valve

Spare parts
0101143 | Suction cup F50MF Thermoelastic polyurethane
0101154 | Fitting 1/8" NPSF female, 50, with mesh filter