

# Suction cup F50-2 HNBR, G3/8" male, with mesh filter

Article number: 0108183



- 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, Glass handling, High/low temp cup (plastic), Plastic injection molded parts, Mark Free
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Glass handling, High/low temp cup (plastic), Plastic injection molded parts, Mark free
Material	-	HNBR
Weight, min.	g	14
Suction cup model	-	F
Volume	cm <sup>3</sup>	10
Height	mm	33.5
Outer diameter, min.	mm	53
Outer diameter, actuated	mm	54.6
Fitting size	-	3/8"
Fitting option	-	Filter mesh
Fitting style	-	Male
Fitting type	-	G-thread
Suction cup model	-	F50-2
Movement, vertical max.	mm	2.2
Curve radius, min.	mm	55

## Performance - Lifting forces

F50-2	Vertical (N)	Parallel (N)
20 -kPa	36	24
60 -kPa	74	40
90 -kPa	96	50

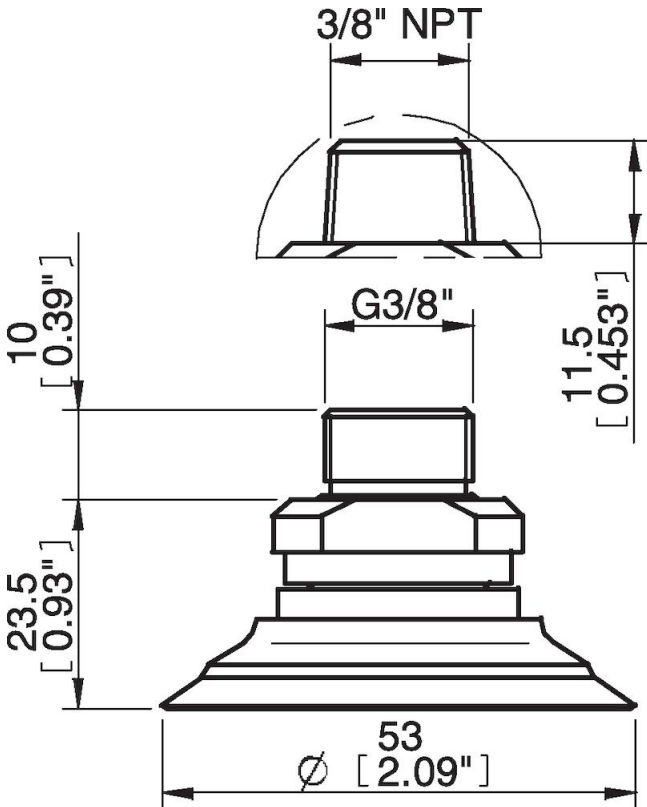
## Material

Name	HNBR 75° Shore A
Colour	Blue/grey
Temperature, min.   °C	-30
Temperature max.   °C	140
Hardness   °Shore A	75

## Material resistance

Alcohol	Good
Concentrated acids	Fair
Ethanol	n/a
Hydrolysis	Good
Methanol	n/a
Oil	Excellent
Oxidation	Excellent
Petrol	Excellent
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  
0101137 | Suction cup F50-2 Nitrile-PVC  
0101138 | Suction cup F50-2 Silicone  
0101154 | Fitting 1/8" NPSF female, 50, with mesh filter  
0101157 | Fitting 1/8" NPSF female, 50, with cone valve  
3150198 | Fitting 1/8" NPSF female, 50, PA  
3250017 | Fitting 1/8" NPSF female, 50  
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  
3150241P | Suction cup F50-2 Nitrile-PVC, for fitting with cone valve  
3150241S | Suction cup F50-2 Silicone, for fitting with cone valve

**Spare parts**

0108166 | Suction cup F50-2 HNBR  
3250087 | Fitting G3/8" male, 50, with mesh filter