

# Datasheet

## Suction cup FC20P Polyurethane 50, G1/8" male / M5 female, with mesh filter

Item number: FC20P.4D.02AF



- Suitable for lifting small objects and narrow parts, also slightly domed, flat and oily surfaces, e.g., such as those encountered when handling steel sheets in press processes
- Thanks to the high friction of the rubber material, the suction cups can withstand high forces at rapid accelerations in horizontal directions, even on oily surfaces.
- The suction cups have cleats that prevent thin objects from being disfigured.
- DURAFLEX® material features the elasticity of rubber in combination with the wear resistance of polyurethane.
- The DURAFLEX® material is mark-free.

### Technical data

Description	Unit	Value
Suction cup shape	-	Flat Concave
Application	-	Dry sheet metal, Mark Free
Suction cup design	-	Round
Characteristics	-	Dry sheet metal, Mark free
Material	-	Polyurethane (PU)
Weight, min.	oz	0.046
Suction cup model	-	FC
Volume	in <sup>3</sup>	0.061
Height	in	0.67
Outer diameter, min.	in	0.86
Fitting size	-	1/8", M5
Fitting option	-	Filter mesh
Fitting style	-	Female/Male
Fitting type	-	G-thread, M-thread
Suction cup model	-	FC20P
Movement, vertical max.	in	0.11
Curve radius, min.	in	0.98

### Performance - Lifting forces

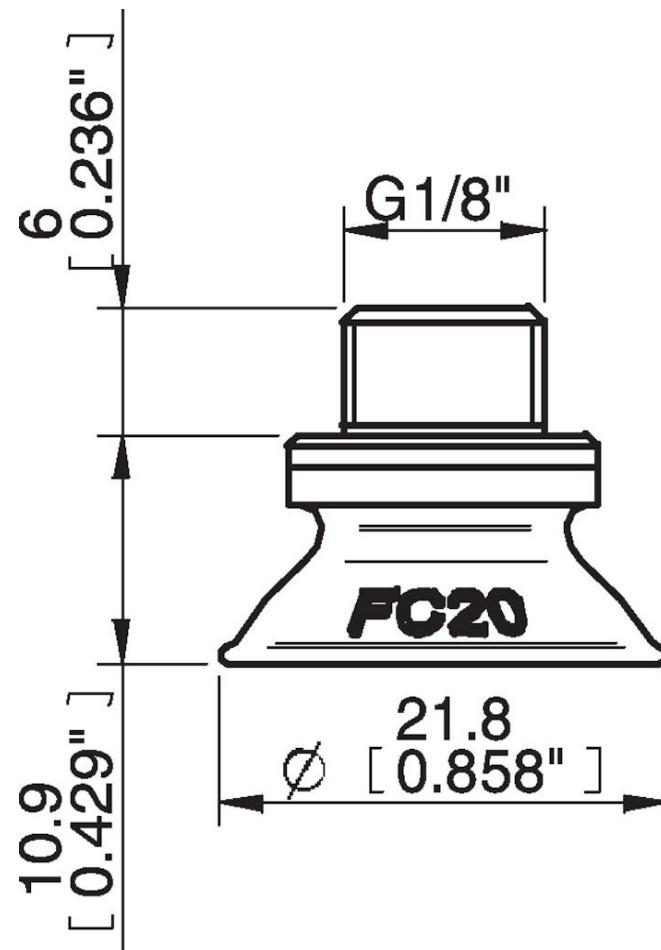
FC20P	Vertical (lb)	Parallel (lb)
5.91 -inHg	1.012	1.012
17.72 -inHg	2.70	2.023
26.58 -inHg	3.60	2.70

<b>Material</b>	
Name	Polyurethane (PU50)
Color	Blue transparent
Temperature, min.   °F	50.0
Temperature max.   °F	122.0
Hardness   °Shore A	50

#### Material resistance

Alcohol	n/a
Concentrated acids	Fair
Ethanol	Fair
Hydrolysis	Fair
Methanol	Poor
Oil	Excellent
Oxidation	Poor
Gasoline	Fair
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  
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**

02AF | Fitting G1/8" male/M5 female, with mesh filter  
FC20P.4D | Suction cup FC20P Polyurethane 50