

## Datasheet

# Suction cup F75 Silicone, 3/8" NPSF female, with mesh filter

Item number: F75.20.07NE



- 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
Suction cup design	-	Round
Characteristics	-	Dry sheet metal
Material	-	Silicone (SIL)
Weight, min.	oz	0.81
Suction cup model	-	F
Volume	in <sup>3</sup>	1.22
Height	in	1.024
Outer diameter, min.	in	3.031
Outer diameter, actuated	in	3.11
Fitting size	-	3/8"
Fitting option	-	Filter mesh
Fitting style	-	Female
Fitting type	-	NPSF-thread
Suction cup model	-	F75
Movement, vertical max.	in	0.12
Curve radius, min.	in	5.91

### Performance - Lifting forces

F75	Vertical (lb)	Parallel (lb)
5.91 -inHg	17.98	13.49
17.72 -inHg	44.96	24.73
26.58 -inHg	60.70	31.47

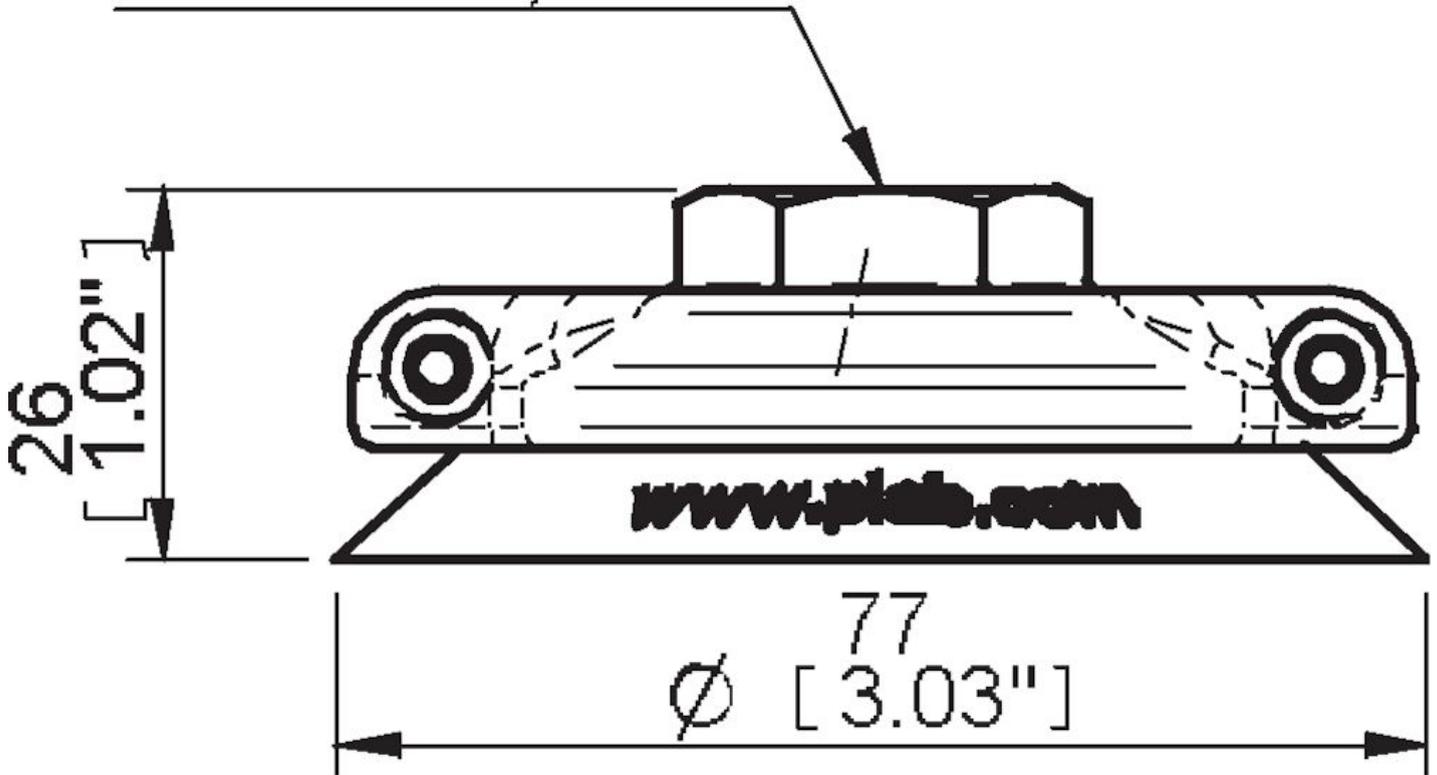
Material	
Name	Silicone, SIL 50° Shore A
Color	Red
Temperature, min.   °F	-40.0
Temperature max.   °F	392.0
Hardness   °Shore A	50

#### Material resistance

Alcohol	Good
Concentrated acids	Poor
Ethanol	n/a
Hydrolysis	Fair
Methanol	n/a
Oil	Poor
Oxidation	Excellent
Gasoline	Poor
Wear resistance	Good
Weather and ozone	Excellent

#### Dimensional drawings

1/8" NPSF, G3/8"  
 3/8" NPSF, G1/2"



#### 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**

07NA | Fitting 75, 1/8" NPSF female, clamp ring with mesh filter

07ND | Fitting 75, G3/8" female, clamp ring with mesh filter

07VD | Fitting 75, G3/8" female, with cone valve

07NF | Fitting 75, G1/2" female, clamp ring with mesh filter

07VF | Fitting 75, G1/2" female, with cone valve

F75.30 | Suction cup F75 Nitrile-PVC

F75.37 | Suction cup F75 HNBR

**Spare parts**

07NE | Fitting 75, 3/8" NPSF female, with mesh filter

F75.20 | Suction cup F75 Silicone