

Piab Flat - Bag opening suction cup

F, Ø 18mm, Silicone FDA, SIL FDA, 50 °Shore A



- Designed for bag handling – Ideal for form-fill-seal machines and bag filling stations.
- Thin, conformable lip – Prevents materials from being sucked in and damaged.
- Clever cleat pattern – Enhances lifting force while protecting delicate materials.
- Handles sensitive materials – Suitable for paper, plastic films, and other thin sheets.
- Wide temperature range – Ensures reliable performance in various conditions.
- The silicone material complies with FDA 21 CFR 177.2600 & EU 1935/2004.

Lifting force

Description	Vertical			Parallel		
	20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa
Lifting forces	6.0 N	13.0 N	17.0 N	4.0 N	9.0 N	12.0 N

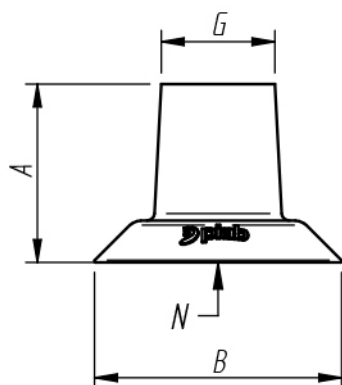
Technical data

Description	Unit	Value
Internal volume	cm ³	0.5
Weight	g	2
Min. curve radius -60 kPa	mm	20.0
Max. vertical movement	mm	1.0
Application	-	Bag opening/thin paper – slip sheets/film, Food contact materials (FDA & EU), non-detectable
Material	-	Silicone (SIL FDA)
Colour	-	Transparent
Suction cup model	-	F
Suction cup shape	-	Flat
Hardness	-	50 °Shore A
Temperature range – conveyed material	°C	-40 – 200
Actuated outer diameter, max	mm	19.6

Material resistance, Silicone FDA, SIL FDA

Description	Value
Alcohol	Good
Concentrated acids	Poor
Ethanol	N/A
Hydrolysis	Fair
Methanol	N/A
Oil	Poor
Oxidation	Excellent
Petrol	Poor
Wear resistance	Good
Weather & ozone	Excellent

Dimensional drawing



Pos.	Description	Unit	Value
A	Building height	mm [inch]	23.0 [0.91"]
B	Diameter (lip)	mm [inch]	18.0 [0.71"]
G	Diameter (upper part cup)	mm [inch]	11.0 [0.43"]
N	Air channel	mm [inch]	4.5 [0.18"]

Ordering information – Current configuration

Description	Flat - Bag opening suction cup	Product code S.F18SF50.XXX.00
Suction cup shape	Flat	
Suction cup model	Flat - Bag opening	
Suction cup size	Ø 18mm	
Suction cup material	Silicone FDA, SIL FDA	
Hardness	50 °Shore A	
Fitting type	None	
Fitting size	None	
Fitting style	None	
Options	None	

Ordering information, spare parts

Description	Art. No.
S.F18SF50.XXX.00	0201216

Ordering information, accessories

Description	Art. No.
Fitting kit G1/4" male, 14AC	0247156
Fitting 1/8" NPSF female, 14AD	0247157
Fitting kit G1/8" male, 14AE	0247159



Internal volume



Max. vertical movement



Diameter (lip)



Min. curve radius -60 kPa

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.

Storage guidelines (scan QR code):

