

# Food bellows cups (F-BX)



The 2½ bellows F-BX cups of food contact materials (FCM) have a “funnel” shape design with very thin lips, but, with stable body/bellows. That allows for excellent grip on different food parts with irregular surfaces and different heights, even at fast speeds and accelerations. F-BX is suitable for frozen food as well as raw food.

- The material is silicone material which complies FDA and EU regulations e.g. FDA 21 CFR 177.2600 and EU 1935/2004.
- Long lasting high-end silicone material.
- A low percentage metal additive (Fe) is mixed with the rubber material to make it detectable.
- Suitable for frozen and raw food.
- Excellent grip on food with irregular surfaces and different heights, even at fast speeds and accelerations.
- Available with male threaded food grade, detectable plastic fittings or acid proof stainless steel fittings.
- Easy to clean with hygienic design. No dust/dirt pockets.
- Low vacuum level needed to collapse bellows. Reduces risk for damaging the handled food product.



## Lifting forces

Name	Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level		
	10 -kPa	20 -kPa	40 -kPa	10 -kPa	20 -kPa	40 -kPa
F-BX10	0.5	0.9	1.5	1.2	1.3	1.4
F-BX15	1.3	2.7	4.3	1.5	2.8	3.6
F-BX20	1.3	2.7	4.3	1.5	2.8	3.6
F-BX25	3.9	6.9	8	2.9	4.6	7.3
F-BX35	7.6	12.9	14.2	7.5	9.1	10.3

## General specifications

Name	Outer diameter, mm	Height, mm	Min. curve radius, mm	Max. vertical movement, mm	Volume, cm <sup>3</sup>
F-BX10	10.5	19	3.6	6.8	0.33
F-BX15	16	24	5.5	9.8	1.13
F-BX20	21	30	5.5	9.8	2.9
F-BX25	26	37	9	15.5	5.1
F-BX35	36	37	13.3	20.2	13.6

## Available materials

Name	Silicone, FCM detectable
FBX10	●
FBX15	●
FBX20	●
FBX25	●
FBX35	●

## Applications

Table shows typical applications for the suction cup. For more detailed information, please visit [piab.com](http://piab.com).

Name	Food contact material (FDA, EU standard)
FBX10	●
FBX15	●
FBX20	●
FBX25	●
FBX35	●

## Ordering information

### No fitting

Name	Detectable
F-BX10	0206202
F-BX15	0206203
F-BX20	0206204
F-BX25	0206205
F-BX35	0206206

### NPT thread

Name	1/4" NPT male, detectable		1/8" NPT male, detectable		3/8" NPT male, detectable	
	Composite	Stainless steel	Composite	Stainless steel	Composite	Stainless steel
F-BX10	–	–	0207054	0207051	–	–
F-BX15	0207062	0207058	0207061	0207057	–	–
F-BX20	0207070	0207066	0207069	0207065	–	–
F-BX25	0207077	0207073	–	–	0207078	0207074
F-BX35	0207085	0207081	–	–	0207086	0207082

### G thread & M thread

Name	G1/8" male, detectable		G1/4" male, detectable		G3/8" male, detectable		M5 male detectable	
	Composite	Stainless steel	Composite	Stainless steel	Composite	Stainless steel	Composite	Stainless steel
F-BX10	0207053	0207050	–	–	–	–	0207052	0207049
F-BX15	0207059	0207055	0207060	0207056	–	–	–	–
F-BX20	0207067	0207063	0207068	0207064	–	–	–	–
F-BX25	–	–	0207075	0207071	0207076	0207072	–	–
F-BX35	–	–	0207083	0207079	0207084	0207080	–	–