FPC/FPCX

FlowPack Suction Cups



Combining great flexibility and food compatibility, the new FPC and FPCX Series suction cups have been specially designed to optimize the handling of packed bags from 100 g to 5 kg. E.g. - FlowPack, DoyPack, etc.

- Its gripping ability allows for high production rates.
- No interruption in the packaging line due to faulty gripping.
- Suction cup made of silicone, a material that is recommended for its temperature resistance and food safety (FDA and CE 1935/2004).
- Energy Savings: the airtightness of FPC and FPCX Series suction cups avoids the need for an oversized vacuum generator.

Different forms and dimensions for a suitable solution.

- Round Ø 35 1.5 bellows, Round Ø 45 and Ø 60 mm or elliptical 120 x 100 mm.

Industry-specific applications



Types of use



Applications

The FPC and FPCX series suction cups are dedicated to the handling of flexible packaging such as FlowPack, Doypack, etc. :

- FlowPack < 0.5 kg: suction cup Ø 35 mm, FPC351.5.
- FlowPack < 1 kg: suction cup Ø 45 mm, FPC45.
- FlowPack < 1.5kg: suction cup Ø 60 mm, FPC60/ FPCX60.
- FlowPack ≤ 5 kg: elliptical suction cup 120x100 mm, FPC120100.

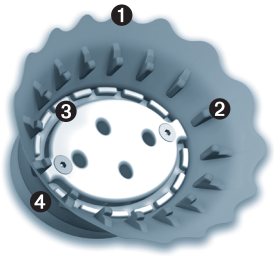
Materials

Suction cups:	**SIBL3**	Blue silicone 35 Shore A
	SIBL5	Blue silicone 50 Shore A
Fittings:		Plastic POM-C and PETP
Flat seal:		Silicone
Screw:		Stainless steel

FPC and FPCX suction cups are compatible with FDA food standards (FDA 21 CFR 177.2600.) and meet the European regulation (EC) 1935/2004.

Innovations

The shape of the lip has been designed to match the deformation of flexible packaging and ensure the best possible seal during positioning; which, as an additional advantage, allows for a reduction in power of the vacuum generator. The FPC/FPCX suction cups are also equipped with cleats that stiffen the lip and reinforce the clamping effect.



❶ Thin and wavy flower-shaped lips that perfectly mold to the packaging, whatever the shape.
❷ Internal cleats that allow for optimized vacuum while preventing any crushing and also strengthen the hold on the product being handled.
❸ Fittings featuring a lateral vacuum distributor that prevent any loss in efficiency when the product is held.
❹ Materials: Food-grade silicone and plastic insert meets FDA and CE standards.

FPCX60SIBL5: A variant of the FPC60SIBL5 suction cup is available with a slightly thicker lip, providing it with greater durability over time

Suction Cup characteristics

	Dim. (mm)	(cm³)	(N) (1)	SIBL3 Part number suction sup + fitting	SIBL5 Part number suction sup + fitting
FPC351.5___IF14PC	Ø 35	7.2	5	FPC351.5SIBL3IF14PC	FPC351.5SIBL5IF14PC
FPC45___IF38PC	Ø 45	13	10	FPC45SIBL3IF38PC	FPC45SIBL5IF38PC
FPC60___IF38PC	Ø 60	24.5	15	FPC60SIBL3IF38PC	FPC60SIBL5IF38PC
FPCX60___IF38PC	Ø 60	24.5	15	-	FPCX60SIBL5IF38PC
FPC120100___IF38P1V	120x100	167	50	FPC120100SIBL3IF38P1V	FPC120100SIBL5IF38P1V

(1) Force measured at 65% vacuum, without safety factor.

Range

FPC351.5___IF14PC
Round Ø 35 mm
1.5 bellows



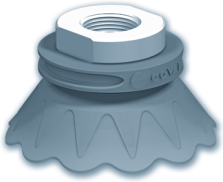
FPC45___IF38PC
Round Ø 45 mm



FPC60___IF38PC
Round Ø 60 mm



FPCX60___IF38PC
Round Ø 60 mm



FPC120100___IF38P1V
Elliptical 120 x 100 mm



Specify the part number e.g.: FPC60SIBL3IF38PC
Please refer to the characteristics table above

FPC/FPCX

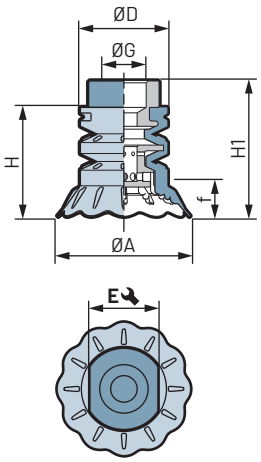
FlowPack Suction Cups

Dimensions

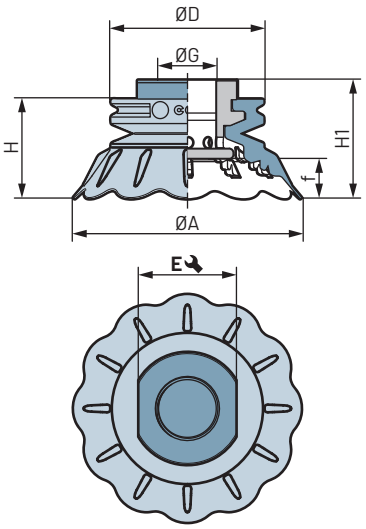


Suction Cup + fitting

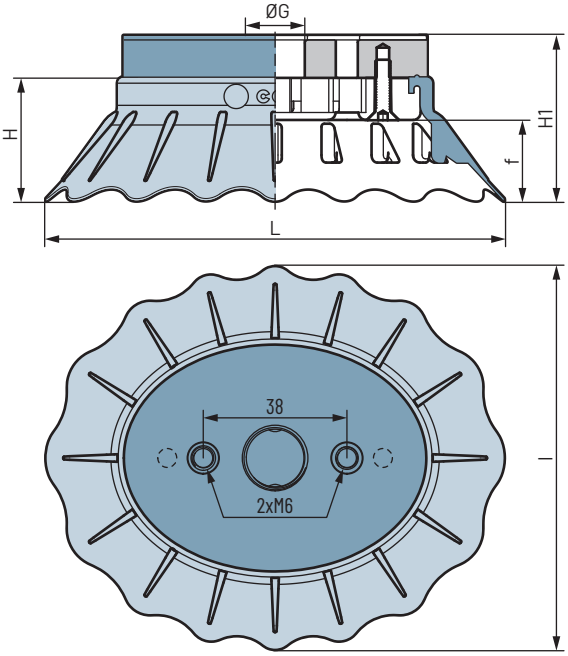
FPC351.5---IF14PC
Round, Ø 35 mm, 1.5 bellows



FPC45---IF38PC
FPC60/FPCX60---IF38PC
Round, Ø 45 and 60 mm



FPC120100---IF38P1V
Elliptical, 120 x 100 mm

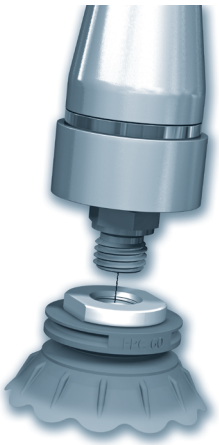


	Ø A	Ø D	L	I	f (1)	H	H1	Ø G	E	(g)
FPC351.5---IF14PC	35	23	-	-	10	29	36	G1/4"-F	19	9.9
FPC45---IF38PC	45	39	-	-	7	23	30	G3/8"-F	26	20
FPC60---IF38PC	60	40	-	-	10	26	33	G3/8"-F	26	21.5
FPCX60---IF38PC	60	40	-	-	10	26	33	G3/8"-F	26	21.5
FPC120100---IF38P1V	-	-	120	100	15	32.5	42.5	G3/8"-F	-	92.1

(1) f = Deflection of the suction cup

Mounting Configurations

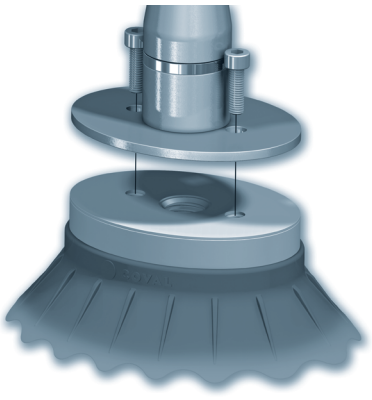
FPC351.5/FPC45/FPC60/FPCX60
Via connection:
- FPC351.5: G1/4"-F
- FPC45/FPC60/FPCX60: G3/8"-F



FPC120100
From below:
2 M5x20 screws (not included)



From above:
2 M6x16 screws (not included)



The values represent the average characteristics of our products.
Note: All dimensions are in mm

FPC/FPCX

FlowPack Suction Cups

Part Configurations



FPC351.5

Round, Ø 35 mm, 1.5 bellows

COMPLETE PART CONFIGURATION

SUCTION CUP
+
UPPER G1/4"-F FITTING
+
LOWER PLATE

- Hardness 35 Shore
  FPC351.5SIBL3IF14PC
- Hardness 50 Shore
  FPC351.5SIBL5IF14PC



INDIVIDUAL PART REFERENCE

UPPER G1/4"-F FITTING ONLY:
IF14PFPC35

SUCTION CUP ONLY:
- Hardness 35 Shore
  FPC351.5SIBL3
- Hardness 50 Shore
  FPC351.5SIBL5

LOWER PLATE ONLY:
IL1PFPC35

FPC45/FPC60/FPCX60

Round, Ø 45 and 60 mm

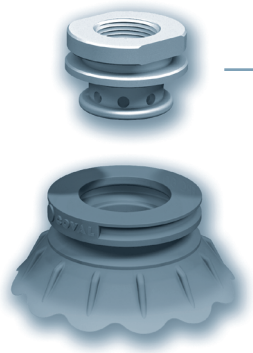
COMPLETE PART CONFIGURATION

SUCTION CUP
+
G3/8"-F FITTING:

FPC45
- Hardness 35 Shore
  FPC45SIBL3IF38PC
- Hardness 50 Shore
  FPC45SIBL5IF38PC

FPC60
- Hardness 35 Shore
  FPC60SIBL3IF38PC
- Hardness 50 Shore
  FPC60SIBL5IF38PC

FPCX60
- Hardness 35 Shore
  FPCX60SIBL5IF38PC



INDIVIDUAL PART REFERENCE

UPPER G3/8"-F ONLY:
IF38PFPC60

FPC45
SUCTION CUP ONLY:
- Hardness 35 Shore
  FPC45SIBL3
- Hardness 50 Shore
  FPC45SIBL5

FPC60
SUCTION CUP ONLY:
- Hardness 35 Shore
  FPC60SIBL3
- Hardness 50 Shore
  FPC60SIBL5

FPCX60
- Hardness 50 Shore
  FPCX60SIBL5

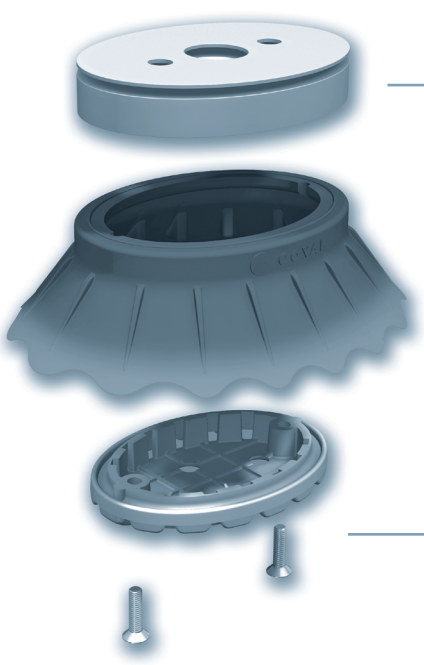
FPC120100

Elliptical, 120 x 100 mm

RÉFÉRENCE DES VENTOUSES COMPLÈTES

SUCTION CUP
+
LOWER PLATE
+
UPPER PLATE G3/8"-F
+
FLAT SEAL:

- Hardness 35 Shore
  FPC120100SIBL3IF38P1V
- Hardness 50 Shore
  FPC120100SIBL5IF38P1V



INDIVIDUAL PART REFERENCE

UPPER PLATE G3/8"-F + FLAT SEAL:
IF38PFPC120

SUCTION CUP ONLY:
- Hardness 35 Shore
  FPC120100SIBL3
- Hardness 50 Shore
  FPC120100SIBL5

LOWER PLATE + 2 STAINLESS SCREWS M4x16:
IL1PFPC120

Standard configurations (suction cup + fitting) are delivered unassembled.