

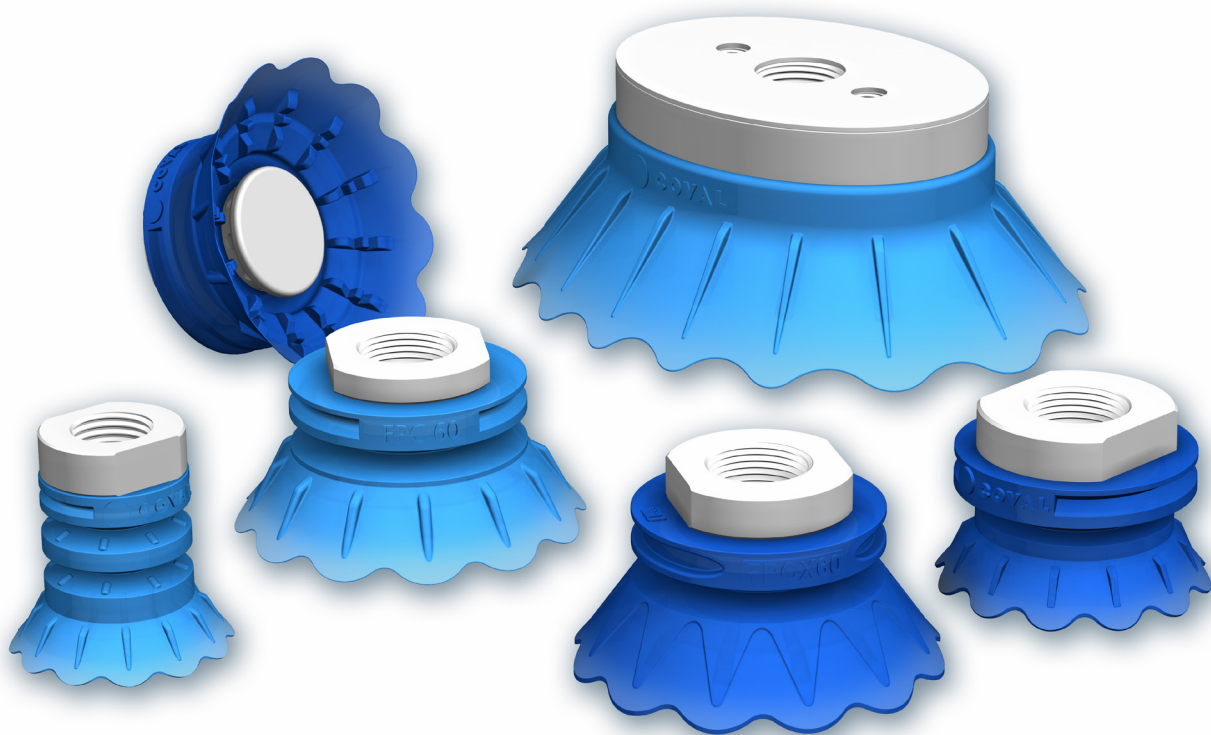
# COVAL

vacuum managers

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## FPC/FPCX

FlowPack Suction Cups



### ADVANCED VACUUM SOLUTIONS

[www.coval.com](http://www.coval.com)

EN5

# FPC/FPCX

## Universal FlowPack Suction Cups

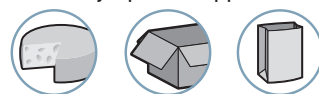
### General information

Focusing on the needs of its customers in the food industry, COVAL has developed a series of particularly innovative silicone cups, dedicated to the high-speed handling of flexible packaging.

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.



Industry-specific applications



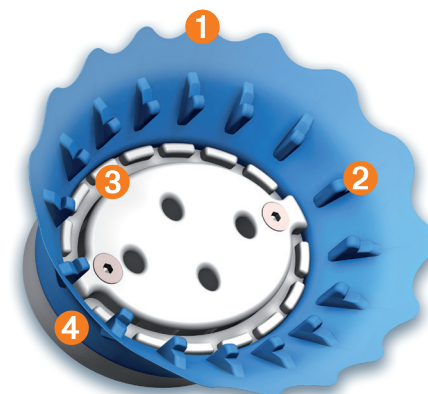
Types of use



### A Collection of 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

### Advantages

#### WITHSTANDS HIGH PRODUCTION RATES:

- Its gripping ability allows for high production rates.
- No interruption in the packaging line due to faulty gripping.

#### SAFETY:

- The FPC/FPCX Series suction cup is made of silicone, a material that is recommended for its temperature resistance and food safety. The plastic fittings also conform to food standards.

#### ENERGY SAVINGS:

- The airtightness of FPC/FPCX Series suction cups avoids the need for an oversized vacuum generator, allowing for considerable energy savings.

#### SUITABLE FOR ALL FLOWPACKS:

- Different forms and dimensions for a suitable solution.

### A Complete Range

#### AVAILABLE IN FOUR SIZES:

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

(\* The Ø60 suction cups are available in 2 versions: FPC and FPCX)

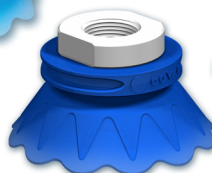
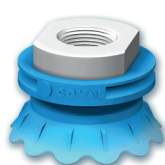
#### TWO LEVELS OF FLEXIBILITY:

35 and 50 Shore.

#### MATERIALS:

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

- **Suction cups:** Silicone.
- **Fittings:** Plastic POM-C and PETP.
- **Flat Seal:** Silicone.
- **Screw:** Stainless Steel.



#### FPC VIDEO

Discover the FPC suction cups in action!








# FPC/FPCX

## Universal FlowPack Suction Cups

### Characteristics



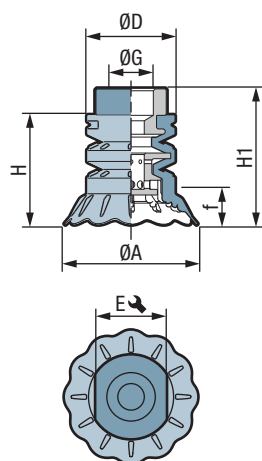
	Dim. (mm)	 (cm <sup>3</sup> )	 (N) <sup>(1)</sup>	Shore Hardness	 (g)	ØA (mm)	ØD (mm)	L (mm)	I (mm)	f <sup>(2)</sup> (mm)	H (mm)	H1 (mm)	ØG (mm)	E  (mm)
FPC351.5SIBL3IF14PC	Ø 35	7.2	5	35	9.9	35	23	/	/	10	29	36	G1/4"-F	19
FPC351.5SIBL5IF14PC	Ø 35	7.2	5	50	9.9	35	23	/	/	10	29	36	G1/4"-F	19
FPC45SIBL3IF38PC	Ø 45	13	10	35	20	45	39	/	/	7	23	30	G3/8"-F	26
FPC45SIBL5IF38PC	Ø 45	13	10	50	20	45	39	/	/	7	23	30	G3/8"-F	26
FPC60SIBL3IF38PC	Ø 60	24.5	15	35	21.5	60	40	/	/	10	26	33	G3/8"-F	26
FPC60SIBL5IF38PC	Ø 60	24.5	15	50	21.5	60	40	/	/	10	26	33	G3/8"-F	26
FPCX60SIBL5IF38PC	Ø 60	24.5	15	50	21.5	60	40	/	/	10	26	33	G3/8"-F	26
FPC120100SIBL3IF38P1V	120x100	167	50	35	92.1	/	/	120	100	15	32.5	42.5	G3/8"-F	/
FPC120100SIBL5IF38P1V	120x100	167	50	50	92.1	/	/	120	100	15	32.5	42.5	G3/8"-F	/

(1) Force measured at 65% vacuum, without safety factor.  
(2) f = deflection of the suction cup.

### Dimensions "Suction Cup + Fitting"

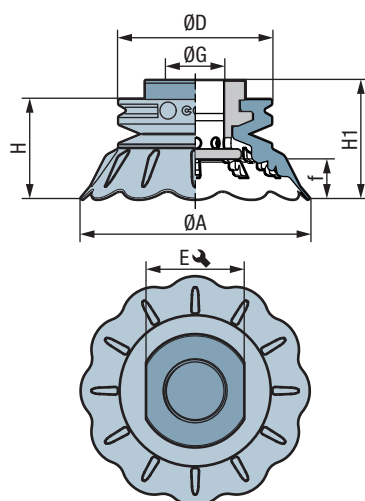
#### FPC351.5...IF14PC

Round, Ø 35 mm, 1.5 bellows



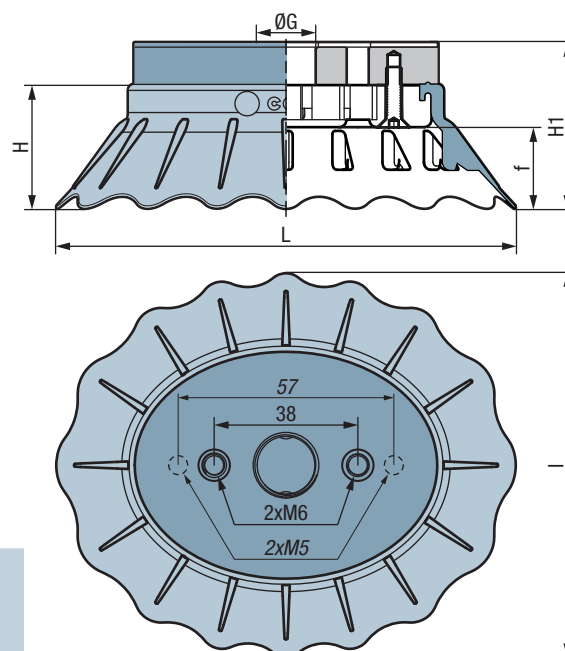
#### FPC45...IF38PC FPC60/FPCX60...IF38PC

Round, Ø 45 and 60 mm



#### FPC120100...IF38P1V

Elliptical, 120 x 100 mm



**3D  
COVAL Data**

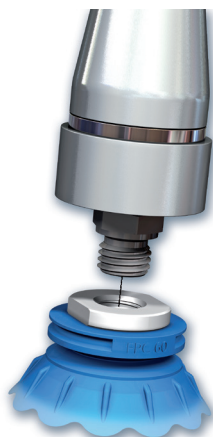
On our site [www.coval.com](http://www.coval.com) you will find 3D models of all our products, in formats suitable for the principal CAD software.

### Mounting Configurations

#### FPC351.5/FPC45/FPC60/FPCX60

Via connection:

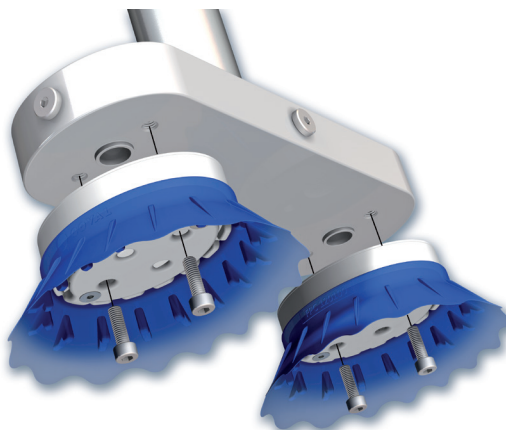
- FPC351.5: G 1/4"-F
- FPC45/FPC60/FPCX60: G 3/8"-F



#### FPC120100

From below:

- 2 M5x20 screws (not included).



From above:

- 2 M6x16 screws (not included).



# FPC/FPCX

## Universal FlowPack Suction Cups

### To Order



#### FPC351.5

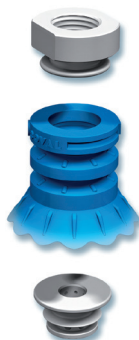
Round, Ø 35 mm, 1.5 bellows

##### 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**

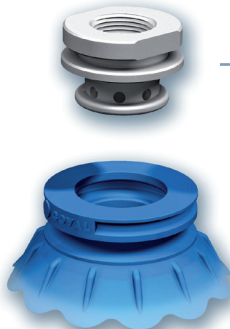
##### FPC60

■ 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

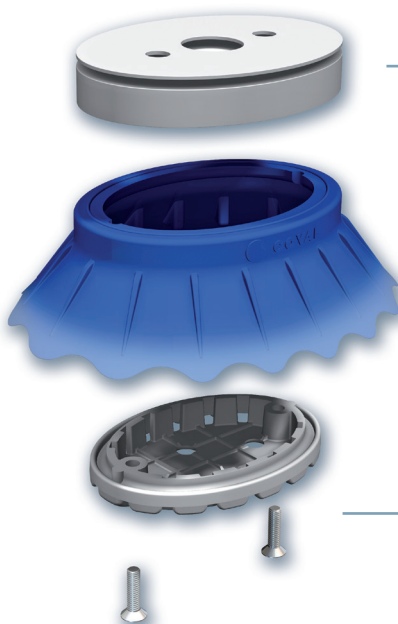
Elliptical, 120 x 100 mm

##### 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**

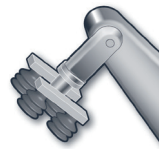
Standard configurations (suction cup + fitting) are delivered unassembled.



# FPC/FPCX

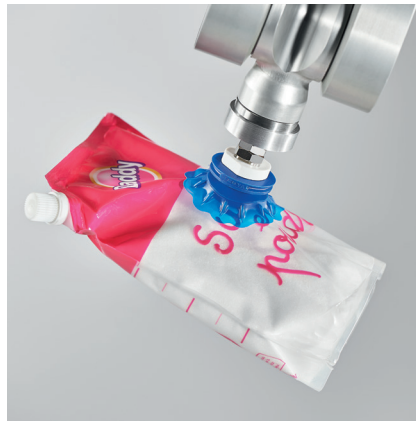
## Universal FlowPack Suction Cups

### Applications



The FPC/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 < 1.5 kg: suction cup Ø 60 mm, FPC60/FPCX60.
- FlowPack ≤ 5 kg: oval suction cup 120x100 mm, FPC120100.





**COVAL**  
vacuum managers

vacuum  
**components**



## A TECHNOLOGICAL PARTNER ON A GLOBAL SCALE

Located in the South of France, COVAL SAS designs, produces, and markets high-performance vacuum components and systems for industrial applications in all sectors worldwide.

An ISO 9001: V2015 certified company, COVAL innovates globally in vacuum handling. Our optimized components integrate intelligent and reliable functionalities, adapt to your industrial context, and safely improve your productivity.

With a strong spirit of innovation and technological advancements, the COVAL team is now recognized as an expert in developing reliable, economical, and productive custom solutions.

COVAL's references are found in major industrial sectors such as packaging, food processing, automotive, plastics, aerospace, and robotics, where vacuum handling is crucial for efficiency and productivity.

COVAL markets its products and services worldwide through its subsidiaries and authorized distributor network. Always attentive to its customers, COVAL supports the implementation of its solutions with a continuous and attentive relationship.

Visit the following section on COVAL's website:  
*contacts > commercial network*  
to view the most current list.



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