COVAL

vacuum managers

FPC/FPCX

FlowPack Suction Cups



ADVANCED VACUUM SOLUTIONS

FPC/FPCX

Universal FlowPack Suction Cups

General information



Industry-specific applications



Types of use



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.

A Collection of Innovations

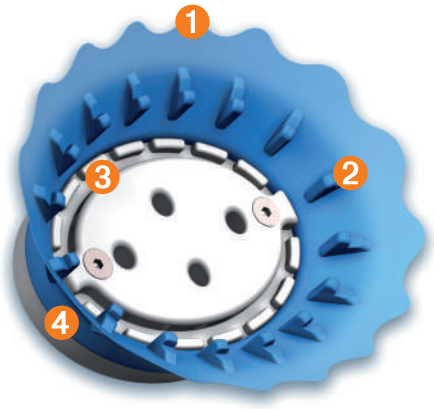
The shape of the lip has been designed to match the deformation of flexible packaging and ensure the best possible seal during positioning; which, as an additional advantage, allows for a reduction in power of the vacuum generator. The FPC/FPCX suction cups are also equipped with cleats that stiffen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

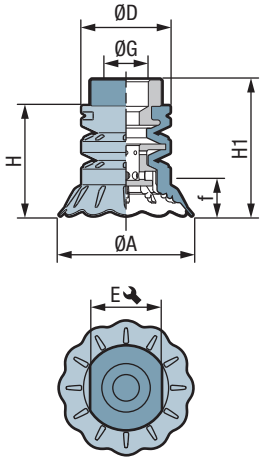


	Dim. (mm)	(cm³)	(N)(1)	Shore Hardness	(g)	ØA (mm)	ØD (mm)	L (mm)	l (mm)	f(2) (mm)	H (mm)	H1 (mm)	ØG (mm)	E (mm)
FPC351.5SIBL3IF14PC	Ø 35	7.2	5	35	9.9	35	23	/	/	10	29	36	G1/4"-F	19
FPC351.5SIBL5IF14PC	Ø 35	7.2	5	50	9.9	35	23	/	/	10	29	36	G1/4"-F	19
FPC45SIBL3IF38PC	Ø 45	13	10	35	20	45	39	/	/	7	23	30	G3/8"-F	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	/

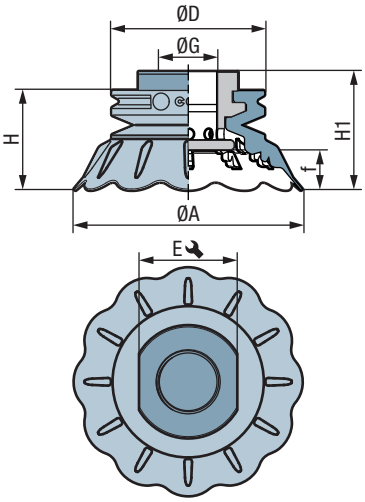
(1) Force measured at 65% vacuum, without safety factor.
(2) f = deflection of the suction cup.

Dimensions "Suction Cup + Fitting"

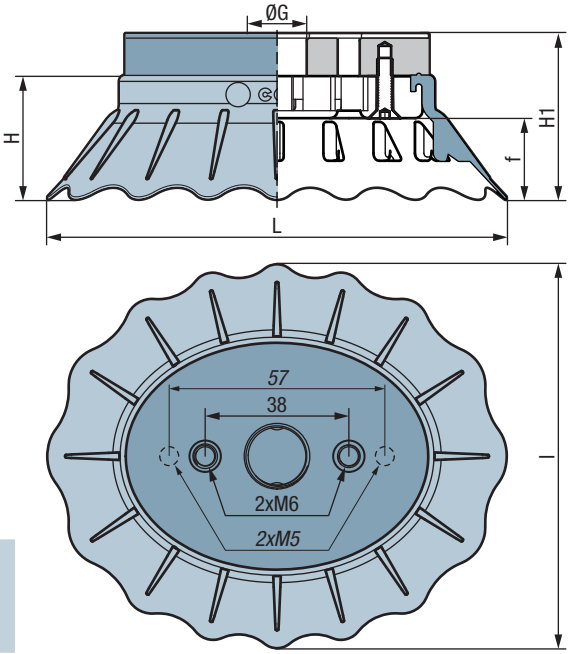
FPC351.5...IF14PC
Round, Ø 35 mm, 1.5 bellows



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 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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COVAL IBERICA

COVAL ITALIA

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ISO 9001
Certified quality management system

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