

FlowPack Suction Cups



series

www.coval.com



FPC Series: Universal

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 suction cups are also equipped with cleats that stiffen the lip and reinforce the clamping effect.

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

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 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.



AVAILABLE IN TWO SIZES:

Round, Ø 60 mm.Elliptical, 120 x 100 mm.

TWO LEVELS OF FLEXIBILITY:

35 and 50 Shore.



ENERGY SAVINGS:

 The airtightness of FPC 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.

MATERIALS:

FPC 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.



4-GSTER-LROA

Focusing on the needs

of its customers in the

food industry, COVAL, a company certified ISO 9001: V2015. 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 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.

certified quality management system

FlowPack Suction Cups

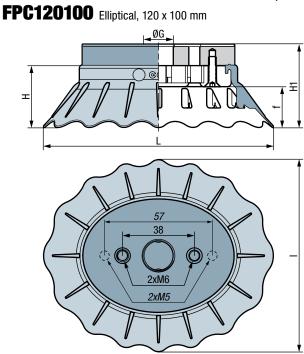
Characteristics

≙	Dim. (mm)	(cm ³)	(N) ⁽¹⁾	Shore Hardness	 (g)	ØA (mm)	L (mm)	l (mm)	f ⁽²⁾ (mm)	H (mm)	H1 (mm)	ØG (mm)	E 🔌 (mm)
FPC60SIBL3IF38PC	Ø 60	24.5	15	35	21.5	Ø 60	/	1	10	26	33	G3/8"-F	26
FPC60SIBL5IF38PC	Ø 60	24.5	15	50	21.5	Ø 60	/	1	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	1	120	100	15	32.5	42.5	G3/8"-F	/

(1) Actual force of the suction cup in use with 65% vacuum and including a safety factor of 2.
 (2) f = deflection of the suction cup.

FPC60 Round, Ø 60 mm

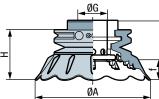
Dimensions "Suction Cup + Fitting"

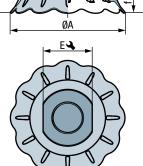


Mounting Configurations

FPC60 • Via G3/8"-F connection FPC120100

From below: 2 M5x20 screws(not included)





• From above: 2 M6x16 screws(not included)

vacuum managers





To Order:

FPC60 Round, Ø 60 mm

COMPLETE PART CONFIGURATION

SUCTION CUP + G3/8"-F FITTING:

Hardness 35 Shore
 FPC60SIBL3IF38PC

Hardness 50 Shore
 FPC60SIBL5IF38PC



INDIVIDUAL PART REFERENCE G3/8"-F FITTING ONLY: IF38PFPC60

SUCTION CUP ONLY:

Hardness 35 Shore
 FPC60SIBL3

Hardness 50 Shore
 FPC60SIBL5

FPC120100 Elliptical, 120 x 100 mm **COMPLETE PART CONFIGURATION INDIVIDUAL PART REFERENCE UPPER PLATE G3/8"-F + FLAT SEAL:** IF38PFPC120 SUCTION CUP SUCTION CUP ONLY: LOWER PLATE Hardness 35 Shore **UPPER PLATE G3/8"-F** FPC120100SIBL3 + FLAT SEAL: Hardness 50 Shore FPC120100SIBL5 Hardness 35 Shore FPC120100SIBL3IF38P1V Hardness 50 Shore FPC120100SIBL5IF38P1V LOWER PLATE + 2 STAINLESS SCREWS M4x16: IL1PFPC120



FPC VIDEO
Discover the FPC suction cups in action!

On our site www.coval.com you will find 3D models of all our products, in formats suitable for the principal CAD software.



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Applications

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

 $\label{eq:FlowPack} \begin{array}{l} \mbox{FlowPack} < 1.5\mbox{kg: suction cup } \emptyset \mbox{ 60 mm, FPC60.} \\ \mbox{FlowPack} \le 5\mbox{ kg: oval suction cup } 120\mbox{100 mm, FPC120100.} \end{array}$









A TECHNOLOGICAL PARTNER ON A GLOBAL SCALE

Located in the southeast region of France, COVAL conceives, manufactures and globally distributes high performance, advanced vacuum automation components and systems for industrial applications in all branches.

COVAL is an ISO 9001: V2015 certified company which offers innovative solutions integrating reliable and optimized components with intelligent functionalities. The focus is to provide the most personalized and economic solution to a given application while assuring a significant improvement in the productivity and the safety for the vacuum users around the world.

COVAL has an ambition for technical excellence and innovation. As a specialist in vacuum automation, COVAL is reputed for offering reliable, personalized, cost effective and productive solutions. The references of COVAL can be found in several industrial sectors (Packaging, Automotive Industry, Plastic, Graphic, Aeronautic...) where vacuum handling is important for high efficiency and productivity.

COVAL markets its products and services all over Europe, in the United States and South America through its subsidiaries and authorized distribution network. COVAL strives to provide customer driven solutions and gives the best possible treatment to satisfy all its clients.

For all enquiries from Australia, Africa and Asia kindly contact COVAL head office in France.

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