

INDUSTRIAL PUMPS SINCE 1982





Debem FDA Foodboxer pumps are made of electro-polished stainless steel, and are ideal for the food, cosmetics and beverage industries in compliance with FDA requirements. The parts in contact with the liquid are made exclusively of electro-polished AISI316 and PTFE FDA.



PUMPS COMPOSITION CODE FOODBOXER

ex. FB50-A-HTAAT--

(Foodboxer 50, body AISI 316, air side diaphragm Hytrel, fluid side diaphragm PTFE, balls AISI 316, ball seats AISI 316, O-Ring PTFE

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<u>FB50 -</u>	A -	Ē	Ī	Ā	Ā	Ţ	-	-
Pump model	Pump body	Air side diaphragm	Fluid side diaphragm	Balls	Ball seats	O-Ring	Twin manifold	Conduct version
FB30 - Foodboxer 30 FB50 - Foodboxer 50 FB80 - Foodboxer 80 FB100 - Foodboxer 100 FB251 - Foodboxer 251 FB502 - Foodboxer 502 FB503 - Foodboxer 503	A - AISI 316	H - Hytrel	T - PTFE	A - AISI 316 T - PTFE	A - AISI 316	T - PTFE	X	с



FOODBOXER - DIAPHRAGM PUMPS FDA **MAIN FEATURES:**

Available in AISI 316 STAINLESS STEEL;

Use in potentially-explosive atmospheres (ATEX zone 1-2 certification);

Suitable for demanding applications and high-humidity environments;

Dry operation;

Dry self-priming;

Actuated using non-lubricated air;

Stall-prevention pneumatic circuit;

Adjustable flow rate and head;

Twin-manifold option (two suction and two delivery);

Bench or ceiling installation;

Three suction and delivery positions;

User-friendly maintenance and parts replacement;

Excellent performance and value for money.

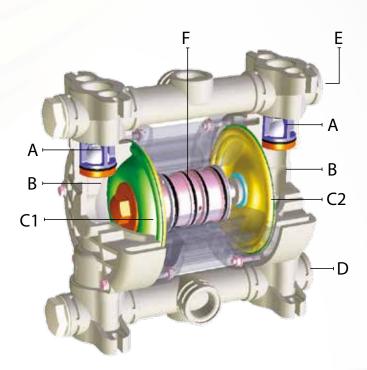
Max. operating temperature: Aisi 316 min +3°C/max +95°C

Fine tuning of motor speed at constant pressure;

BOXER diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with high apparent viscosity even if containing suspended solids.

The stall-prevention pneumatic system assures a safe pump running and it does not need lubricated air.

Self-priming dry capacity even with considerable suction head, fine tuning of speed without pressure loss and the **possibility of dry operation without suffering damage** mean that these pumps offer unrivalled versatility. In addition, the huge choice of construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range. They are specifically designed for **demanding applications with high humidity or in** potentially explosive atmospheres (ATEX certification).



 $\mathbf{A} =$ ball valves $\mathbf{B} = pumping chamber$ **C1** = product-side diaphragm **C2** = air-side diaphragm **D** = suction manifold E = delivery manifold **F** = pneumatic exchangers

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FOODBOXER



II 2/2GD c IIB T135°C (zone 1) II 3/3GD c IIB T135°C (zone 2)

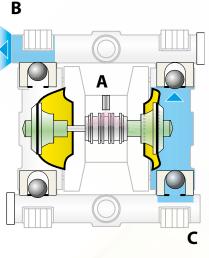
The FOODBOXER range is designed for demanding applications throughout the paint sector and for solvent-based liquids.

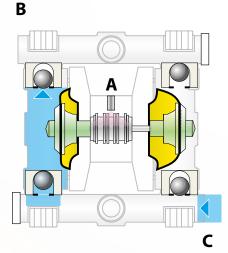
Materials: Self-priming capacity: Max. head: Max. flow rate: Alu - AISI 316 max 6m 70m 30 ÷ 900 l/min



HOW IT WORKS

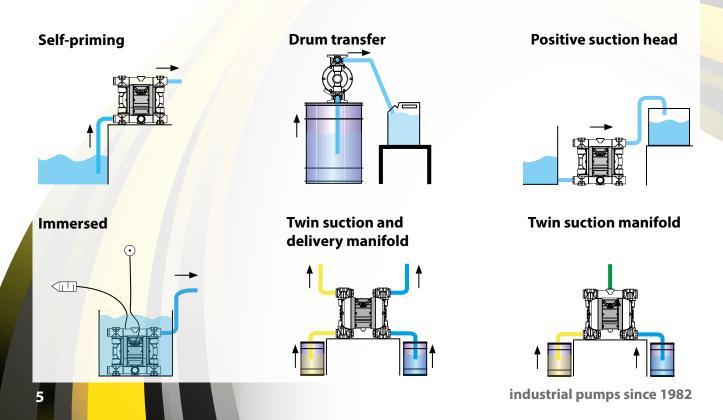
The compressed air introduced by the pneumatic exchanger (**A**) behind one of the two diaphragms generates compression and pushes the product into the delivery duct (**B**), at the same time the opposing diaphragm that is integral with the exchanger shaft creates a vacuum and intakes the fluid (**C**). Once the stroke has been completed, the pneumatic exchanger diverts the compressed air behind the opposing diaphragm and the cycle is reversed.





INSTALLATION

The pumps **must be installed vertically** with special bolts on the feet or holes provided.





PNEUMATIC EXCHANGERS

The heart of an air-operated diaphragm pump consists of the pneumatic exchanger that DEBEM has succeeded in developing and innovating in a revolutionary manner, patenting the most durable and reliable system the market currently has to offer. This device introduces compressed air to alter the pressure balance of the diaphragms assisted by a stall-prevention circuit that ensures optimum performance even under the most critical conditions or with low-pressure compressed air supplies (min 2 bar).

Air-chamber volumes and airways are carefully designed to optimise consumption.

Speed and flow rate can be easily adjusted by regulating air flow, whilst head can be adjusted as a function of compressed air supply pressure.

DEBEM DIAPHRAGMS

Diaphragms are the components subjected to greatest stress during suction and pumping, when they must also withstand the liquid's chemical attack and temperature.

Correct assessment and selection is therefore crucial for diaphragm service life, investment decisions and maintenance costs.

A modern process of design, destructive testing and careful analysis of results has enabled DEBEM to develop LONG LIFE new generation diaphragms. The shape and profile of these products provides a greater working surface and improved load redistribution, thus reducing material stress and yield to a minimum.

DEBEM DIAPHRAGMS

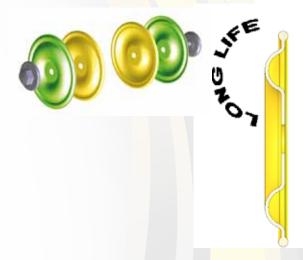
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RUBBER DIAPHRAGMS

They are made from rubber compounds with special additives that improve chemical properties as well as mechanical bending and strength characteristics. These diaphragms have a nylon backing cloth that improves stress distribution:

NBR: inexpensive and particularly suited to petroleum- and oil-based liquids;

EPDM: good acid, alkaline and abrasion resistance, as well as good flexibility even at low temperatures.

THERMOPLASTIC DIAPHRAGM

They are made from thermoplastic polymers that provide

high mechanical stress resistance and distribution.

HYTREL:

exceptional strength and elastic return; high resistance to creeping, impact and stress when flexed; excellent flexibility at low temperatures, while maintaining most of its properties at high temperatures. It is also resistant to the attack of many industrial chemicals, oils and solvents;

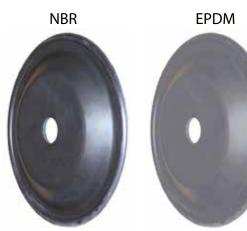
SANTOPRENE®:

excellent acid and alkaline resistance, high flexural strength and good abrasion resistance.

PTFE DIAPHRAGM

This material is noted for its excellent resistance to high temperatures, chemicals and corrosive agents. DEBEM PTFE diaphragms are subjected to a double heat treatment in order to increase elasticity and service life. Each batch undergoes random destructive testing in order to verify its performance.

This diaphragm can be fitted together with one of those previously mentioned in order to increase resistance to the liquid's corrosive chemicals and temperature.



HYTREL



SANTOPRENE

PTFE





industrial pumps since 1982

DEBEM



Debem has filed with the **TÜV NORD** certification body the documentation certifying **ATEX** compliance pursuant to Directive 94/9/CE for its ranges of **BOXER** and **CUBIC** pneumatic diaphragm pumps and **EQUAFLUX** automatic pulsation dampeners, as described in the following table.

They are manufactured in a **STANDARD**, class **II 3/3GD c IIB T135°C** version or - upon request - with special construction materials in a **CONDUCT**, class **II 2/2GD c IIB T135°C** version.

The equipment user is responsible for classifying its area of use. On the other hand, the manufacturer shall identify and affix the certification class of the manufactured equipment.



CLASSE DI CERTIFICAZIONE



II 2/2 GD c IIB T135°C (per zona 1)

SERIE PRODOTTI versione STANDARD - CUBIC - BOXER - FOODBOXER - EQUAFLUX versione CONDUCT

- CUBIC - BOXER - FOODBOXER

- EQUAFLUX

DESCRIZIONE

Costruite in materiale plastico non conduttivo e/o con corpo centrale non conduttivo, oppure in materiale metallico con corpo centrale non conduttivo.

Costruite con corpi pompa e/o collettori in materiali plastici conduttivi (PP + Fibra di carbonio, ECTFE/PVDF + Fibra di carbonio), e materiali metallici (Alluminio, Acciaio Inox).



Safety symbols in accordance with DIN 40012 Annex A

Il **2/2 GD**: Surface equipment for use in zones in which gases, vapours or mists and clouds of combustible dust in air occur in normal operation occasionally (EN 1127-1 subclause 6.3) in both the external and internal zone.

Il **3/3 GD**: Surface equipment for use in zones in which gases, vapours or mists and clouds of combustible dust in air are not likely to occur in normal operation or may occur rarely for a short period only in both the external and internal zone.

c: Equipment protected by constructional safety (EN 13463-5).

IIB: Exclusion of the following products: Hydrogen, acetylene, carbon disulphide.

T 135°: Allowed temperature class. The user shall process fluids in accordance with the corresponding temperature classification, bearing in mind the instructions in the manual and the provisions of current legislation. The user shall also consider the ignition temperatures of gases, vapours or mists and clouds of combustible dust in air in the area of use.





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CHEMICAL COMPATIBILITY

The type of liquid, temperature and working environment are factors to be considered when deciding on the best choice of construction materials for the pump and its **correct chemical compatibility**. Some examples are given in the following table:

SUBSTANCE	Polypropylene	PVDF ECTFE (Halair®)	Aluminium	Stainles Steel AISI 316	NBR (Perbunan®)	EPDM (Dutral®)	PTFE (Teflon®)	PPS-V (Ryton®)	FPM (Viton®)	Santoprene®	PE-UHMW (Poleszene®)	
Acetaldehyde	A1	D	В	А	D	А	А	А	D	-	В	
Acetamide	A1	С	А	А	А	А	А	А	В	-	-	
Vinyl acetate	B1	A2	A1	В	D	B2	A2	-	A1	-	D	
Acetylene	A1	А	А	А	В	А	А	А	А	-	-	
Vinegar	А	В	D	А	В	А	А	А	А	-	А	
Acetone	А	D	А	А	D	А	А	А	D	A1	A2	
Fatty acids	А	А	А	А	В	D	А	-	А	D	А	

A= very good B= good C= poor, not recommended

D= severe etching, not recommended

– information not available

 $1 = \text{satisfactory up to } 22^{\circ}\text{C} (72^{\circ}\text{F})$

 $2 = \text{satisfactory up to } 48^{\circ}\text{C} (120^{\circ}\text{F})$

For further information, please do not hesitate to contact DEBEM's technical service department.

We have obtained this information from reliable sources.

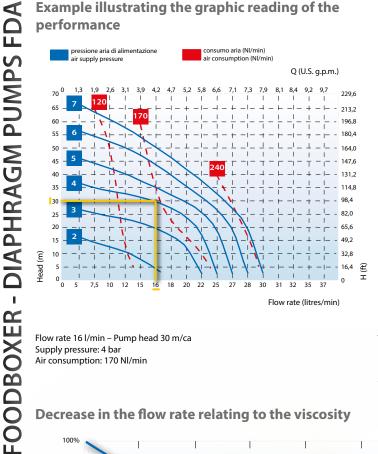
Debem has not performed any form of testing in this regard and therefore accepts no liability for the accuracy of the details provided.



industrial pumps since 1982



Example illustrating the graphic reading of the



Flow rate 16 l/min – Pump head 30 m/ca Supply pressure: 4 bar Air consumption: 170 NI/min

complete with membrane Air **Power approximated** PUMP TYPE DISPLACEMENT consumption (compressor) ΗР MIDGETBOX NI/min 3,2 cc 50 0,5 CUBIC 15 10.3 cc 100 1 MICROBOXER 30 cc MINIBOXER/B50 200 2 67 cc 250 2,5 BOXER 80/81 100 cc 350 3,5 BOXER 100 222 сс 450 4,5 BOXER 150 340 cc 550 5,5 BOXER 251 522 cc 850 8,5 BOXER 502/522 1.825 cc

4000 40 The actual power absorbed by the compressor is approximately 70% of the value

10

15

20

30

1000

1500

2000

3500

Compressor table

indicated in the table. It is recommended to use a compressor with a tank.

Please note: when operating at FREE AIR FLOW conditions, the actual flow rate is much higher than the ratio between the number of cycles detected and the displacement due to the momentum.

1.852 cc

8 cc

15 cc

100 cc

320 cc

BOXER 503

EOUAFLUX 51

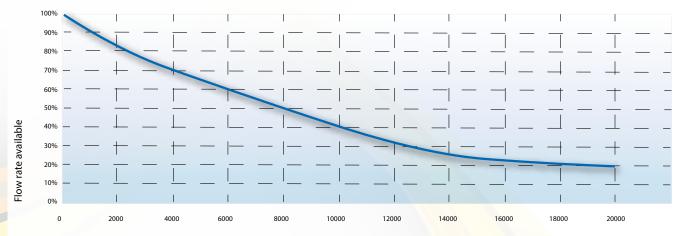
EQUAFLUX 100

EQUAFLUX 200

EQUAFLUX 302/303

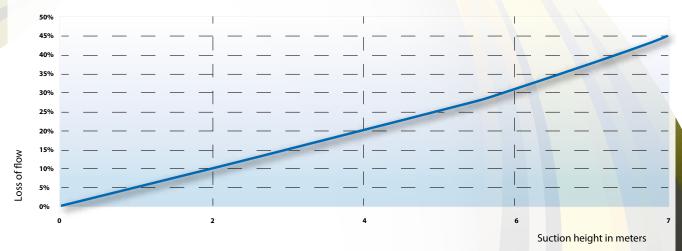
Displacement table referred to the stroke

Decrease in the flow rate relating to the viscosity



Viscosity of the fluid in mPa.s

Boxer Pumps – Loss of flow capacity on the suction height



Loss of flow capacity in percentage relating to the suction height.

FOODBOXER diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with high apparent viscosity even if containing suspended solids.

The **stall-prevention** pneumatic system assures a safe pump running and it does **not need lubri-cated air**.

Self-priming dry capacity even with considerable suction head, **fine tuning of speed** without pressure loss and the **possibility of dry operation without suffering damage** mean that these pumps offer unrivalled versatility. In addition, the huge choice of construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range. They are specifically designed for **demanding applications with high humidity or in potentially explosive atmospheres (ATEX certification)**.

Intake/delivery connections G 1/2" f (*) - flow rate 30 l/min

Construction materials: Aisi 316 electro-polished



STANDARD: II 3/3 GD c IIB T135°C (zone 2)

CONDUCT: II 2/2 GD c IIB T135°C (zone 1)



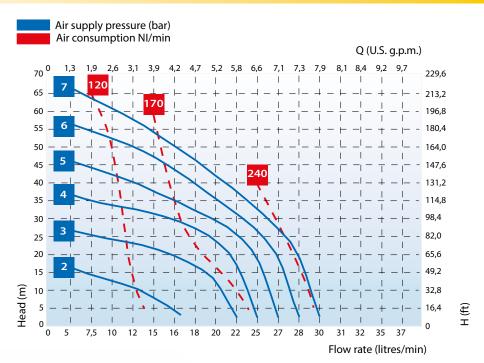
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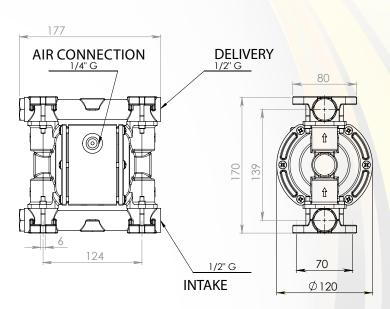
Aisi 316 electro-polished



*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 1/2" f (*)
Air connection			G 1/4" f
Max. self-priming capacity***			6 m
Max. flow rate*			30 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			2 mm
Construction materials and net weight	Aisi 316	3,8 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request



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Intake/delivery connections G 1/2" f (*) - flow rate 50 l/min

Construction materials: Aisi 316 electro-polished



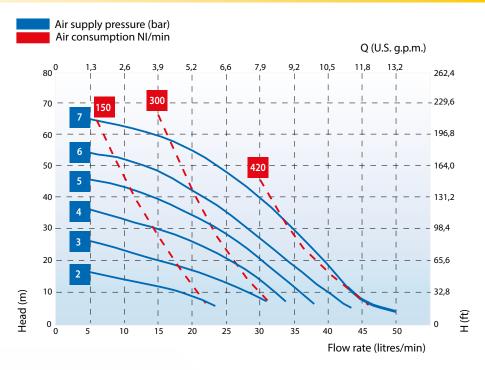




STANDARD: II 3/3 GD c IIB T135°C (zone 2) CONDUCT: II 2/2 GD c IIB T135°C (zone 1)



Aisi 316 electro-polished

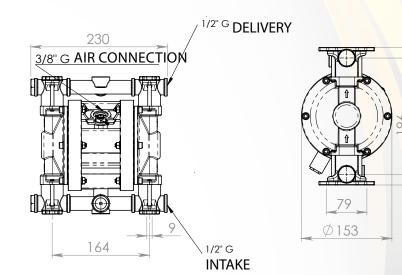


*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 1/2" f (*)
Air connection			G 3/8″ f
Max. self-priming capacity**			5 m
Max. flow rate*			50 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			4 mm
Construction materials and net weight	Aisi 316	6,5 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request

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STANDARD: II 3/3 GD c IIB T135°C (zone 2) **CONDUCT:** II 2/2 GD c IIB T135°C (zone 1)

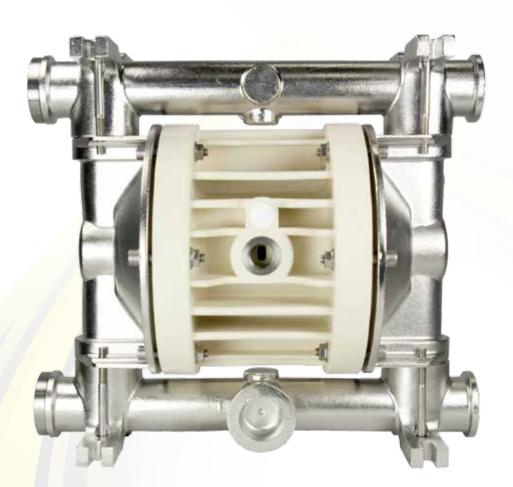
FOODBOXER diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with high apparent viscosity even if containing suspended solids.

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Intake/delivery connections G 1" f (*) - flow rate 100 l/min

Construction materials: Aisi 316 electro-polished



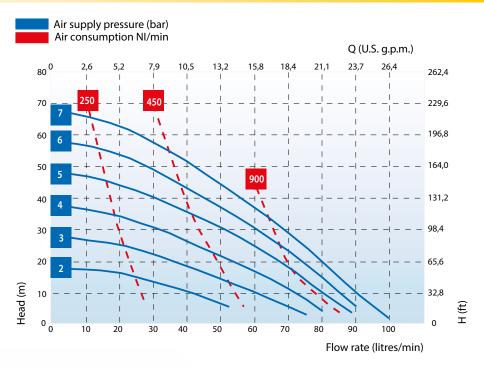
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STANDARD: II 3/3 GD c IIB T135°C (zone 2) CONDUCT: II 2/2 GD c IIB T135°C (zone 1)



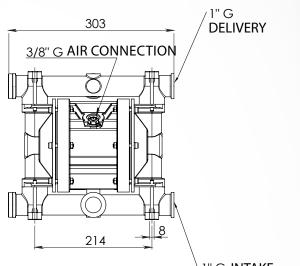
Aisi 316 electro-polished



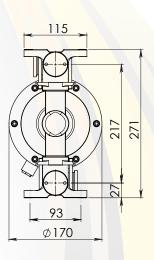
*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 1"f(*)
Air connection			G 3/8″ f
Max. self-priming capacity**			6 m
Max. flow rate*			100 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			4 mm
Construction materials and net weight	Aisi 316	10,5 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request



1" G INTAKE



STANDARD: || 3/3 GD c ||B T135°C (zone 2) **CONDUCT:** || 2/2 GD c ||B T135°C (zone 1)

FOODBOXER diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with high apparent viscosity even if containing suspended solids.

The **stall-prevention** pneumatic system assures a safe pump running and it does **not need lubri-cated air**.

Self-priming dry capacity even with considerable suction head, **fine tuning of speed** without pressure loss and the **possibility of dry operation without suffering damage** mean that these pumps offer unrivalled versatility. In addition, the huge choice of construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range. They are specifically designed for **demanding applications with high humidity or in potentially explosive atmospheres (ATEX certification)**.

Intake/delivery connections G 1" f (*) - flow rate 150 l/min

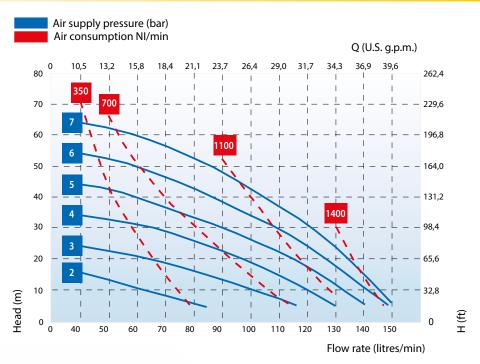
Construction materials: Aisi 316 electro-polished







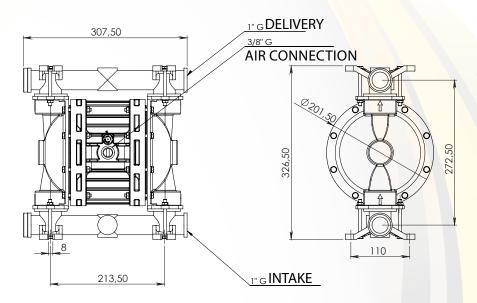
Aisi 316 electro-polished



*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 1″ f (*)
Air connection			G 3/8″ f
Max. self-priming capacity**			5 m
Max. flow rate*			150 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			4 mm
Construction materials and net weight	Aisi 316	11 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request



STANDARD: || 3/3 GD c ||B T135°C (zone 2) **CONDUCT:** || 2/2 GD c ||B T135°C (zone 1)

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Intake/delivery connections G 1" 1/4 f (*) - flow rate 220 l/min

Construction materials: Aisi 316 electro-polished

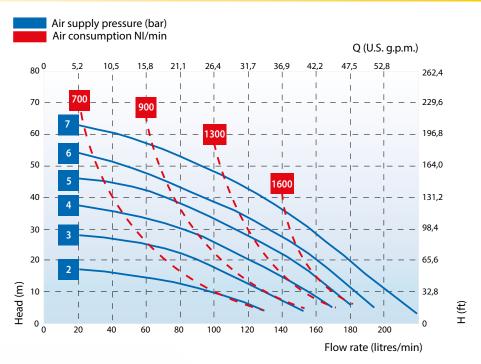




STANDARD: II 3/3 GD c IIB T135°C (zone 2) CONDUCT: II 2/2 GD c IIB T135°C (zone 1)



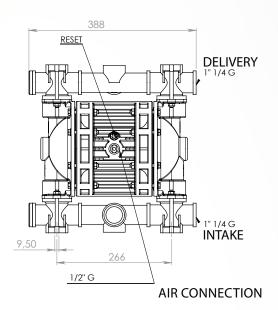
Aisi 316 electro-polished

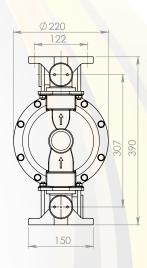


*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 1″ 1/4 f (*)
Air connection			G 1/2" f
Max. self-priming capacity**			6 m
Max. flow rate*			220 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			5 mm
Construction materials and net weight	Aisi 316	21 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request





STANDARD: II 3/3 GD c IIB T135°C (zone 2) **CONDUCT:** II 2/2 GD c IIB T135°C (zone 1)

FOODBOXER diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with high apparent viscosity even if containing suspended solids.

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Intake/delivery connections G 1" 1/2 f (*) - flow rate 340 l/min

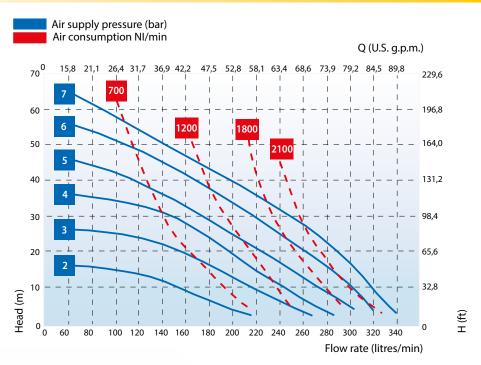
Construction materials: Aisi 316 electro-polished







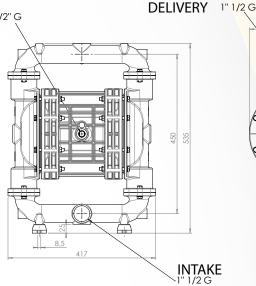
Aisi 316 electro-polished

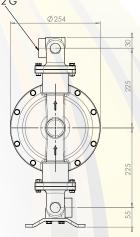


*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 1″ 1/2 f (*)
Air connection			G 1/2" f
Max. self-priming capacity**			6 m
Max. flow rate*			340 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			6 mm
Construction materials and net weight	Aisi 316	32 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request





AIR CONNECTION 1/2" G

STANDARD: II 3/3 GD c IIB T135°C (zone 2) CONDUCT: II 2/2 GD c IIB T135°C (zone 1)

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Intake/delivery connections G 2" f (*) - flow rate 650 l/min

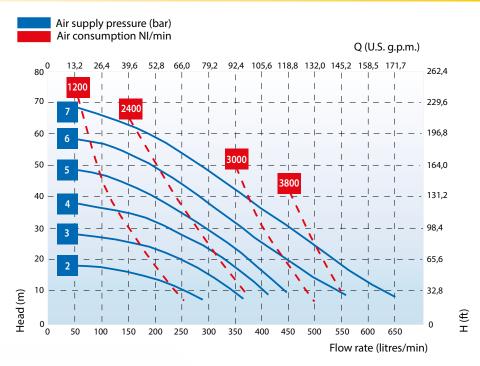
Construction materials: Aisi 316 electro polished







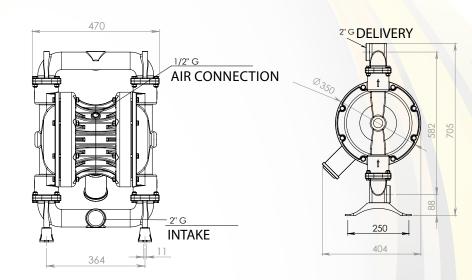
Aisi 316 electro-polished



*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 2" f (*)
Air connection			G 1/2″ f
Max. self-priming capacity**			6 m
Max. flow rate*			650 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			8 mm
Construction materials and net weight	Aisi 316	54 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request



STANDARD: II 3/3 GD c IIB T135°C (zone 2) **CONDUCT:** II 2/2 GD c IIB T135°C (zone 1)

FOODBOXER diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with high apparent viscosity even if containing suspended solids.

The **stall-prevention** pneumatic system assures a safe pump running and it does **not need lubri-cated air**.

Self-priming dry capacity even with considerable suction head, **fine tuning of speed** without pressure loss and the **possibility of dry operation without suffering damage** mean that these pumps offer unrivalled versatility. In addition, the huge choice of construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range. They are specifically designed for **demanding applications with high humidity or in potentially explosive atmospheres (ATEX certification)**.

Intake/delivery connections G 3" f (*) - flow rate 900 l/min

Construction materials: Aisi 316 electro-polished

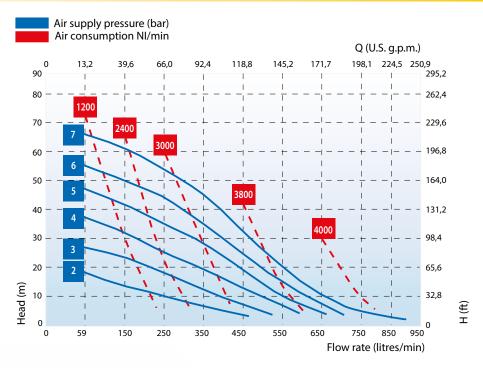








Aisi 316 electro-polished



*The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material. ** The value depends on the configuration of the pump.

Intake/delivery connections			G 3" f (*)
Air connection			G 3/4″ f
Max. self-priming capacity**			5 m
Max. flow rate*			900 l/min
Max. head*			70 m
Max. air supply pressure			7 bar
Max. diameter of passing solids			10 mm
Construction materials and net weight	Aisi 316	71 Kg	95°C Max Temp.

(*) available with clamp, DIN or NPT connections on request

