

AODD PUMPS

www.fluimac.com





The organization of the warehouse and the assembly/testing department, allows the company to offer short delivery times, immediate check of availability, speedy shipments and fast service assistance. The policy of Fluimac relies also on excellent customer service and a network of efficient, reliable distributors who ensure willingness, quality and technical support. This makes Fluimac a high quality company, grounded in excellence.





















So, at Fluimac we believe in extending the Mutual Respect we have as an internal ethic and bringing it to our Business Partnerships.We'll make sure we deliver against our commitments, on time and in a transparent fashion, so you know can plan for your own business needs.





AIR OPERATED DOUBLE DIAPHRAGM PUMPS

Flow-rate from 4 lt/min to 1.050 lt/min. Special version Available.



PHOENIX

Air operated double diaphragm pumps Flow-rate from 4 lt/min to 1.050 lt/min.





PHOENIX FOOD

Air operated double diaphragms pumps Flow-rate from 20 lt/min to 1.050 lt/min.





SPECIAL PUMPS

Phoenix Atex, Accurate Phoenix, Flap Phoenix, Steel Phoenix, Drum Phoenix, Twin Phoenix, Submersible Phoenix and Power Phoenix.





DAMPER

Pneumatic, automatic pulsation dampeners. Applicable to all size of pumps. Available also in ATEX and FOOD version.





LOTUS

Pure Air operated double diaphragm pumps Flow-rate from 55 It/min to 110 It/min





PIEZO

Air operated sampling pumps Flow-rate 8 lt/min

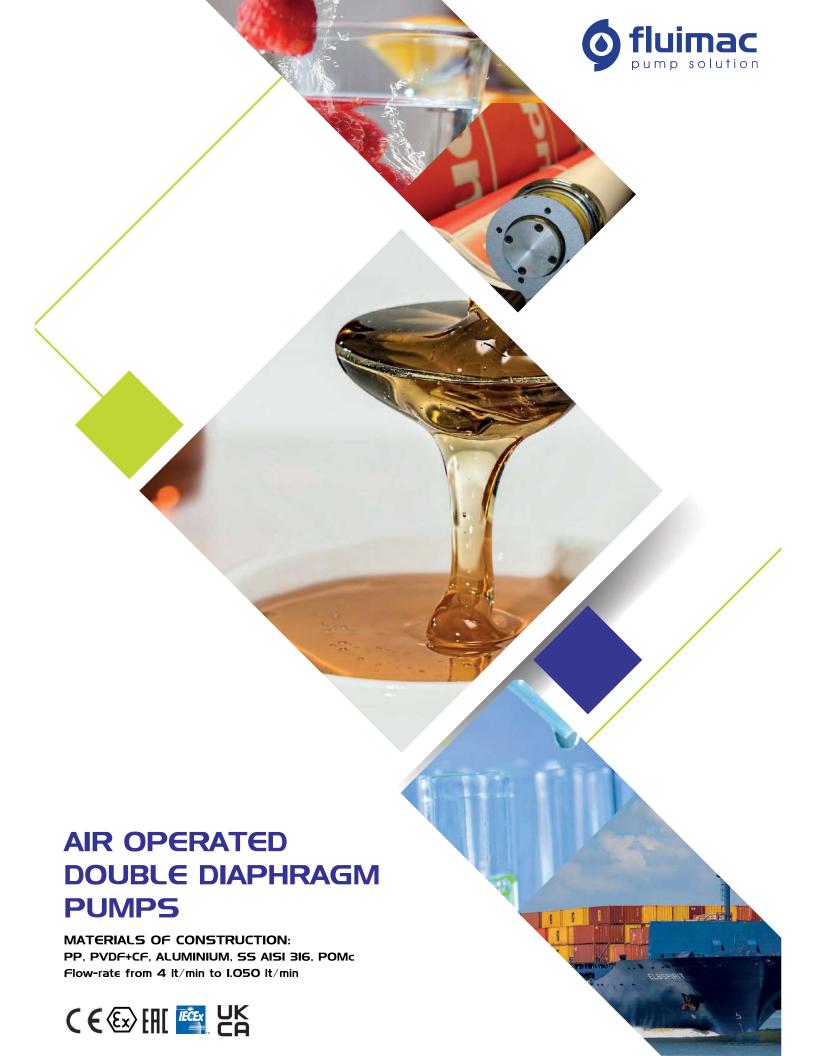




ACCESORIES

Accessories Air operated double diaphragm pumps





PUMP OPERATION







Suction Cycle



Compressed air fills right inner chamber, causing the opposing diaphragm to create suction, lifting the lower valve ball, pulling in fluid at inlet. Simultaneously, the right chamber is in "Discharge" cycle.



Discharge Cycle



Compressed air fills left inner chamber, causing upper valve ball to open and discharge fluid. Simultaneously, the right chamber is in "Suction" cycle.

INSTALLATION



Pump installed below head (positive suction) when it is necessary to empty completely the container



Self priming pump installed above head (negative suction)

pump initially works with dry column without problem



Pump installed above drum or tank

with special featuring pump



Pump installed on hopper for high viscosity liquid

hopper's height helps the pump to treat the fluid. Air pressure has to be high, Suction tube has to be bigger than pump's size



Submerged pump

it is necessary to check the chemical compatibility



Suspended

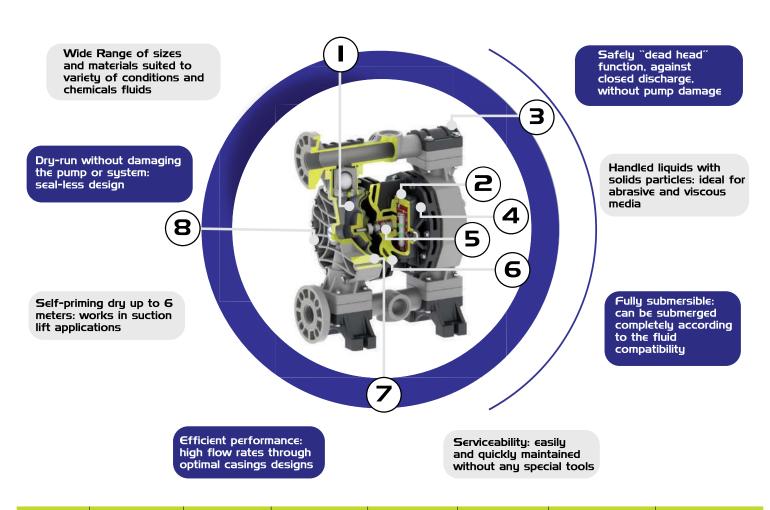
special version with fixing feet also in the upper part, for ceiling fixing



Pump installed on a mobile unit

with a trolley or cart when pump must be often moved

TECHNICAL FEATURES



	2	3	4	5	6	7	8
Long-lasting diaphragm construction ensures a consistent performance and a longer operating life.	Efficient air distribution design: low air consumption. Un-balanced pilot spool, precisely controls positioning of the main power spool to eliminate stalling and increase efficiency.	All bolted design for an effective sealing to extended leak-proof service.	Solid polypropylene air chambers and plastic air valve for maximum chemical resistance in highly corrosive environments.	Acetalic shuttle ensures long valve life,auto-lubricated material.	Pneumatic exchanger is easily externally accessible for a quick inspection. Special Air system: lube-free, non-stall, non-freeze.	Special pinch clamping, design to minimize wear and increase life of the diaphragm, and provides a uniform seal to avoid leak.	Special exhaust chamber with double silencer to expand diffusion passages, reduce the icing and assure low noise level.

QUALITY 100% wet tested after final assembly: deadheading, priming and sealing SAFE ATEX certifications in all versions: Conductive plastic pumps available FLEXIBILITY Multiple porting options available along with interface options

P-

HT

T

MODEL

SIZE

CASING

DIAPHRAGM

BALL

P PHOENIX



PF PHOENIX FOOD



AP ACCURATE PHOENIX



TPTWIN PHOENIX



PP POWDER PHOENIX



PS SUBMERSIBLE PHOENIX



DPDRUM PHOENIX



FP FLAP PHOENIX



4

4 lt/min 1/4" BSPP

> **8** 7 lt/min

1/4" BSPP

20 20 lt/min 3/8" BSPP

35 35 lt/min 1/2" BSPP

55 55 lt/min 1/2" BSPP

60 65 lt/min 1/2" BSPP

90 100 lt/min 3/4"BSPP

120 120 lt/min 1"BSPP

170 170 lt/min 1"BSPP/DN25

252 250 lt/min 1"1/4 BSPP

400 380 lt/min 1"1/2BSPP DN40

700 700 lt/min 2"BSPP DN50

1000 1050 lt/min 3"BSPP DN80



POLYPROPYLENE

Wide chemical compatibility. General purpose.Reinforced with glass-fiber.



PC CONDUCTIVE POLYPROPYLENE

Wide chemical compatibility. General purpose. Groundable.



KC CONDUCTIVE PVDF

Strong chemical resistance to acids. High temperature resistance. Groundable.



O ACETAL

Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance. (Just 4, 8 and 10 size).



OC CONDUCTIVE ACETAL

Wide range of solvent and hydrocarbons. Good level of abrasion resistance. Groundable. (Just 4, 8 and 10 size).



A ALUMINUM

Wide range of solvent and hydrocarbons. Good level of abrasion resistance.



SS – AISI 316 Electropolished

High level of corrosion and abrasion resistance.



H HYTREL

Good low temperature properties. Good abrasion resistance.



W SANTOPRENE HIGH RESISTANCE

Solutions and dilute



NBR NBR

Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals.



D EPDM

OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.



HT HYTREL + PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance



MT SANTOPRENE + PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance



Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals.



D EPDM

OK with caustic solutions, dilute acids, ketones and alcohols.
Good abrasion resistance.



T PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



S

High level of corrosion and abrasion resistance.
Good for viscous fluids.



BALL SEAT

GASKET

CONNECTIONS

ATEX ZONE CERTIFICATION

PORTS



POLYPROPYLENE

Wide chemical compatibility. General purpose.

Strong chemical

resistance to acids.

High temperature

resistance.



VITON

NBR

Good for

petroleum-based

fluids, water, oils,

hydrocarbons and

MILD chemicals.

High heat resistance. Good resistance to aggressive chemicals and hydrocarbons.



BSP THREATED

BSP THREADED WITH REINFORCED RING

2

FLANGED

TRI-CLAMP (PHOENIX FOOD)

NPT THREADED

NPT THREADED WITH REINFORCED RING



ATEX ZONE 2 From P4 to P120 models II 3/3 G Ex h IIC T4 Gc

From P170 to P1000 models

 II 3/3 G Ex h IIB T4 Gc II 3 D Ex h IIIB T135°C Dc X

ATEX ZONE 1 From P4 to P120 models II 2 D Ex h IIIB T135°C Db X From P170 to P1000 models

€ II 2/2 G Ex h IIB T4 Gb

€ II 2 D Ex h IIIB T135°C Db X





S SS

Z

PΕ

PVDF

High level of corrosion and abrasion resistance.

With high molecular

weight: High level of

abrasion resistance.

(Just D and N balls).



D **EPDM**

Т

PTFE

Widest chemical

compatibility, extreme

corrosion resistance,

non-adhesive, high

heat resistance.

Good with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.





DIN 11851/3 (PHOENIX FOOD)





0 ACETAL

Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance.

SPECIAL FEATURES

SP STAINSTEEL PHOENIX CENTRAL BLOCK IN SS

SCP STROKE COUNTER PHOENIX WITH EXTERNAL PNEUMATIC SIGNAL

PCR PHOENIX WITH SHORTER STROKES

PCL PHOENIX WITH LONGER STROKES

To select the right FLUIMAC pump for your application, the following factors should be considered to achieve economy of operation, long pump life, and minimal maintenance costs:

- The nature of the medium to be pumped, its viscosity, and the solids content
- Pumping capacity in relation to the desired output
- Suction and pressure conditions

Considering these parameters, an optimal pump size is selected when the intersection of the intended installation "pressure vs. flow rate" is near the middle section of the curves.

USING PERFORMANCE CURVES

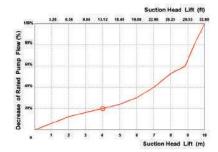
To determine compressed air requirements and proper size for a FLUIMAC AODD pump, two elements of information are required:

- 1 Required Flow Rate
- 2 Total Delivery Head

As an example, consider a P170 pump performance curve, pumping about 135 l/min at 25m.Point A on the performance curve is where the desired Flow Rate and Total Delivery Head points intersect. This point determines compressed air requirements for the particular pump. At performance point A, the pump will require approximately 7 bar air inlet pressure. To arrive at this figure, follow the solid blue curve to the left to read the air pressure rating in BAR. By looking at the nearest green curve, it is determined the pump will require approximately 900 nl/min (Normal Liter per minute) of air consumption

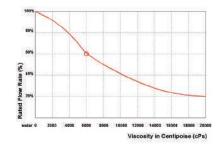


SPECIFIED SUCTION LIFT



With a suction lift of 4 m, pump rate decreases by approximately 20%. Valid for pumps 3/4" and larger; data varies with pump configuration.

VISCOUS LIQUIDS PERFORMANCE DATA



During the conveyance of a fluid with a viscosity of 6000cPs, the pump rate decreases to 60% of its rated value (100% = water). Valid for 3/4" pumps & larger.

PUMP TYPE	AODD	CENTRIFUGAL	LOB€	GEAR	SCREW	PERISTALIC	PISTON
	0		4		Welley.		T
Variable Flow & Head Control	✓	~	✓	✓	!	✓	✓
Deadhead Safely	✓	✓	!	1	!	!	!
Dry-Running	✓	х	x	X	х	✓	Х
Dry Self-Priming	✓	х	x	✓	X	✓	!
No Mechanical Alignment	~	х	х	х	Х	х	Х
No Electrical Installation	✓	x	x	x	X	x	X
Portability	~	✓	!	!	!	✓	!
Submersible	~	!	х	х	Х	х	!
Sealless	✓	!	!	!	!	~	!
Cavitation Tolerance	~	х	1	1	✓	~	!
Low Shear & Degradation	✓	x	✓	✓	!	✓	!





PP



PVDF+CF



POMc

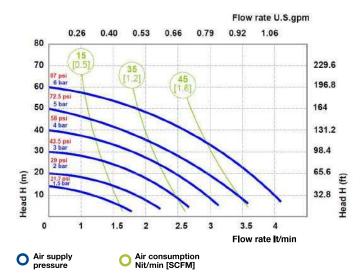
TECHNICAL DATA

Fluid connections	1/4" BSPP
Air connection	1/8" BSPP
Max. Flow rate	4 lt/min
Max air pressure	6 bar
Max delivery head	60 mt
Max Suction Lift Dry	3 mt
Max Suction Lift Wet	9,8 mt
Max Solid passing	2 mm
Noise level:	62 dB
Max Viscosity:	5000 cps
Displacement per Stroke:	18 CC ~

II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

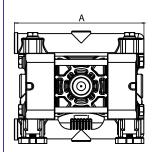
PERFORMANCE

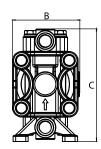


The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	129 mm	67 mm	112 mm	0,84 kg	- 4 °C	+ 65 °C
PVDF	129 mm	67 mm	112 mm	0,84 kg	- 20 °C	+ 95 °C
POMc	129 mm	67 mm	112 mm	0,84 kg	- 5 °C	+ 80 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0004	P = PP KC = PVDF+CF O = POMc	NT = NBR+PTFE	T = PTFE S = SS	P = PP K = PVDF O = POMc	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF



POMc

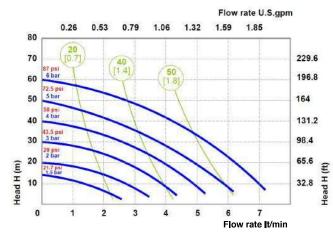
TECHNICAL DATA

Fluid connections	1/4" BSPP
Air connection	1/8" BSPP
Max. Flow rate	7 lt/min
Max air pressure	6 bar
Max delivery head	60 mt
Max Suction Lift Dry	3 mt
Max Suction Lift Wet	9,8 mt
Max Solid passing	2 mm
Noise level:	62 dB
Max Viscosity:	5000 cps
Displacement per Stroke:	18 CC ~

(a) II 3/3 G Ex h IIC T4 Gc
 (b) II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



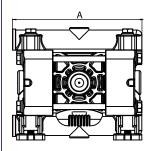
Air supply pressure

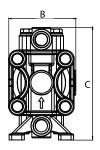
Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	129 mm	67 mm	112 mm	0,84 kg	- 4 °C	+ 65 °C
PVDF	129 mm	67 mm	112 mm	0,84 kg	- 20 °C	+ 95 °C
POMc	129 mm	67 mm	112 mm	0,84 kg	- 5 °C	+ 80 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0008	P = PP KC = PVDF+CF O = POMc	NT = NBR+PTFE	T = PTFE S = SS	P = PP K = PVDF O = POMc	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF





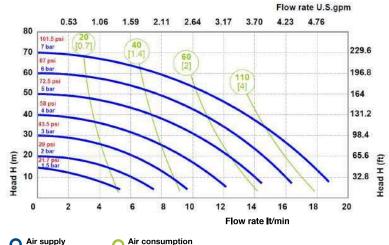
TECHNICAL DATA

Fluid connections	3/8" BSPP
Air connection	1/4" BSPP
Max. Flow rate	20 lt/min
Max air pressure	7 bar
Max delivery head	70 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	2,5 mm
Noise level:	65 dB
Max Viscosity:	10.000 cps
Displacement per Stroke:	30 CC ~

II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



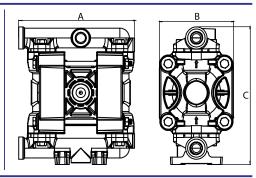
Air supply pressure

Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

		В		Net Weight		
PP	147 mm	93 mm	170 mm	1,3 kg 1,6 kg 1,5 kg 2,3 kg	- 4 °C	+ 65 °C
PVDF	147 mm	93 mm	170 mm	1,6 kg	- 20 °C	+ 95 °C
POMc	147 mm	93 mm	170 mm	1,5 kg	- 5 °C	+ 80 °C
SS	148 mm	85 mm	152 mm	2,3 kg	- 20 °C	+ 95 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0020	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R	T = PTFE S = SS	P = PP K = PVDF O = POMc S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF



ALU



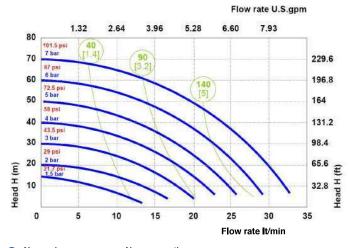
TECHNICAL DATA

Fluid connections	1/2" BSPP
Air connection	1/4" BSPP
Max. Flow rate	35 It/min
Max air pressure	7 bar
Max delivery head	70 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	3 mm
Noise level:	65 dB
Max Viscosity:	15.000 cps
Displacement per Stroke:	65 CC ~

II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



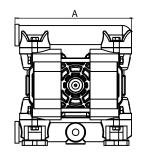
Air supply pressure

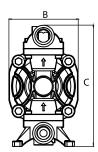
Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	177 mm	105 mm	186 mm	1,8 kg	- 4 °C	+ 65 °C
PVDF	177 mm	105 mm	186 mm	2,3 kg	- 20 °C	+ 95 °C + 95 °C
ALU	183 mm	110 mm	189 mm	2,8 kg	- 20 °C	+ 95 °C
SS	181 mm	106 mm	192 mm	3,8 kg	- 20 °C	+ 95 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0035	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R.	D = EPDM	K = PVDF O = POMc	N = NBR	1 = BSP A = BSP WITH RING 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF



ALU



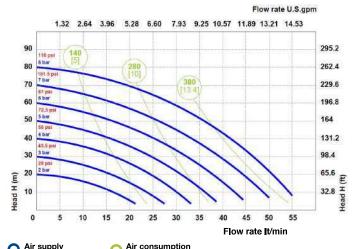
TECHNICAL DATA

Fluid connections	1/2" BSPP
Air connection	1/4" BSPP
Max. Flow rate	55 It/min
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	3,5 mm
Noise level:	70 dB
Max Viscosity:	15.000 cps
Displacement per Stroke:	140 CC ~

(a) II 3/3 G Ex h IIC T4 Gc
 (b) II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



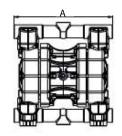
Air supply pressure

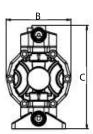
Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	238 mm	156 mm	249 mm	3,8 kg		
PVDF	238 mm	156 mm	249 mm	4,8 kg	- 20 °C	+ 95 °C
ALU	234 mm	156 mm	245 mm	3,8 kg	- 20 °C	+ 95 °C
SS	234 mm	156 mm	269 mm	6,8 kg	- 20 °C	+ 95 °C





COIVII								
MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0055	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	K = PVDF	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF







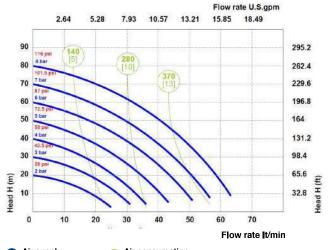
TECHNICAL DATA

1/2" BSPP
1/4" BSPP
65 It/min
8 bar
80 m
5 m
9,8 m
3,5 mm
72 dB
20.000 cps
140 CC ~

(a) II 3/3 G Ex h IIC T4 Gc
 (b) II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



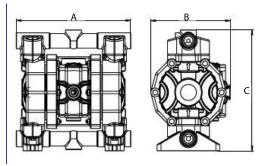
Air supply pressure

Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	238 mm	165 mm	249 mm	4,3 kg	- 4 °C	+ 65 °C
PVDF	238 mm	165 mm	249 mm	5,3 kg 4,3 kg 7,3 kg	- 20 °C	+ 95 °C
ALU	234 mm	165 mm	245 mm	4,3 kg	- 20 °C	+ 95 °C
SS	234 mm	165 mm	269 mm	7,3 kg	- 20 °C	+ 95 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0060	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	P = PP K = PVDF S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 2 = FLANGED 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF





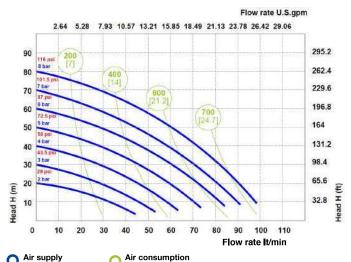
TECHNICAL DATA

Fluid connections	3/4" BSPP
Air connection	3/8" BSPP
Max. Flow rate	100 lt/mm
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	4 mm
Noise level:	72 dB
Max Viscosity:	25.000 cps
Displacement per Stroke:	200 CC ~

II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



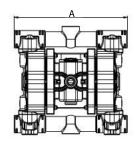
O Air supply pressure

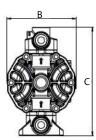
O Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	293 mm	179 mm	267 mm	5,1 kg	- 4 °C	+ 65 °C
PVDF	293 mm	179 mm	267 mm	6,6 kg	- 20 °C	+ 95 °C
ALU	293 mm	178 mm	290 mm	5,6 kg	- 20 °C	+ 95 °C
SS	280 mm	178 mm	291 mm	7,6 kg	- 20 °C	+ 95 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0090	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	K = PVDF	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 2 = FLANGED 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF



ALU

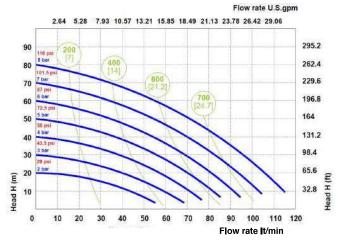


SS

TECHNICAL DATA

Fluid connections	1" BSPP
Air connection	3/8" BSPP
Max. Flow rate	120 lt/mm
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	4 mm
Noise level:	72 dB
Max Viscosity:	25.000 cps
Displacement per Stroke:	200 CC ~

PERFORMANCE



O Air supply pressure

Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

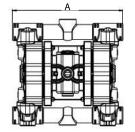
DIMENSIONS

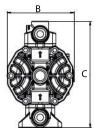
II 3/3 G Ex h IIC T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction

condition, discharge head, air pressure and fluid type.

	Α	В	С	Net Weight	Temp	erature
PP	293 mm	179 mm	280 mm	5,6 kg	- 4 °C	+ 65 °C
PVDF	293 mm	179 mm	280 mm	7,6 kg 5,6 kg 9,6 kg	- 20 °C	+ 95 °C
ALU	293 mm	178 mm	301 mm	5,6 kg	- 20 °C	+ 95 °C
SS	280 mm	178 mm	291 mm	9,6 kg	- 20 °C	+ 95 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0120	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	K = PVDF	N = NBR	1 = BSP A = BSP WITH RING 2 = FLANGED 5 = NPT E = NPT WITH RING	-= zone 2	AB = STANDARD



PP



PVDF+CF



ALU (P 160)



SS

TECHNICAL DATA

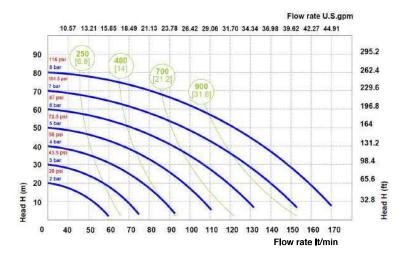
Fluid connections	1" BSPP-DN25
Air connection	1/2" BSPP
Max. Flow rate	170 lt/mm
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	7,5 mm
Noise level:	75 dB
Max Viscosity:	35.000 cps

II 3/3 G Ex h IIB T4 Gc
 II 3 D Ex h IIIB T135°C Dc X

Displacement per Stroke:

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



O Air supply pressure

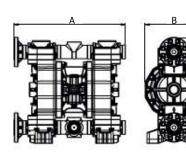
Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	430 mm	222 mm	414 mm	14,2 kg	- 4 °C	+ 65 °C
PVDF	430 mm	222 mm	414 mm	16,2 kg 13,2 kg 17,2 kg	- 20 °C	+ 95 °C
ALU	370 mm	222 mm	364 mm	13,2 kg	- 20 °C	+ 95 °C
SS	357 mm	222 mm	371 mm	17,2 kg	- 20 °C	+ 95 °C

700 CC ~



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0170 P0160 (ONLY ALI		HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	K = PVDF	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD



PP



PVDF+CF



ALU (P 250)



SS

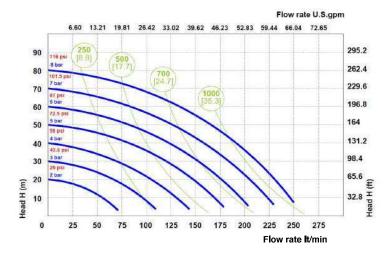
TECHNICAL DATA

Fluid connections	1"1/4" BSPP
Air connection	1/2" BSPP
Max. Flow rate	250 lt/min
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	7,5 mm
Noise level:	75 dB
Max Viscosity:	35 . 000 cps
Displacement per Stroke:	700 CC ~

(a) II 3/3 G Ex h IIB T4 Gc
 (b) II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



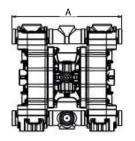
O Air supply pressure

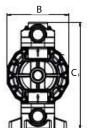
Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	396 mm	222 mm	388 mm	14,2 kg	- 4 °C	+ 65 °C
PVDF	396 mm	222 mm	388 mm	16,2 kg	- 20 °C	+ 95 °C
ALU	370 mm	222 mm	365 mm	13,2 kg	- 20 °C	+ 95 °C
SS	357 mm	222 mm	371 mm	17,2 kg	- 20 °C	+ 95 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0252 P0250 (ONLY ALU)		HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	P = PP K = PVDF S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP A = BSP WITH RING 2 = FLANGED 5 = NPT E = NPT WITH RING	- = zone 2	AB = STANDARD



PP



PVDF+CF





TECHNICAL DATA

Fluid connections 1"1/2 BSPP-DN 40

Air connection 1/2" BSPP

Max. Flow rate 380 lt/min

Max air pressure 8 bar
Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 8 mm

Noise level: 78 dB

Max Viscosity: 40.000 cps

Displacement per Stroke: 1200 CC ~

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



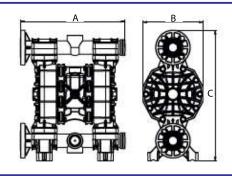
Air supply pressure

O Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	454 mm	260 mm	564 mm	18,2 kg	- 4 °C	+ 65 °C
PVDF	454 mm	260 mm	564 mm	22,2 kg 22,2 kg	- 20 °C	+ 95 °C
ALU	444 mm	260 mm	563 mm	22,2 kg	- 20 °C	+ 95 °C
SS	361 mm	260 mm	502 mm	25,3 kg	- 20 °C	+ 95 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0400	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR		P = PP K = PVDF S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD EF = STANDARD SS



PP



PVDF+CF



ALU



SS

TECHNICAL DATA

Fluid connections 2" BSPP-DN 50
Air connection 3/4" BSPP

Max. Flow rate 700 lt/min

Max air pressure 8 bar
Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

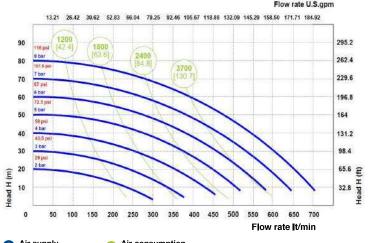
Max Solid passing 8,5 mm

Noise level: **78 dB**

Max Viscosity: 50.000 cps
Displacement per Stroke: 3050 CC ~

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



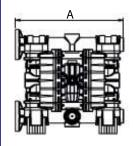
Air supply pressure

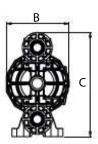
O Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	595 mm	345 mm	570 mm	30,6 kg		
PVDF	595 mm	345 mm	570 mm	41,6 kg	- 20 °C	+ 95 °C
ALU	595 mm	340 mm	567 mm	37,6 kg	- 20 °C	+ 95 °C
SS	487 mm	340 mm	599 mm	51 kg	- 20 °C	+ 95 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0700	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	K = PVDF	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD EF = STANDARD SS





PVDF+CF





SS

TECHNICAL DATA

Fluid connections 3" BSPP-DN 80 Air connection 3/4" BSPP

Max. Flow rate 1050 lt/min

Max air pressure 8 bar Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 12 mm

Noise level: 82 dB

Max Viscosity: 55.000 cps

Displacement per Stroke: 9750 CC ~

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



Flow rate It/min

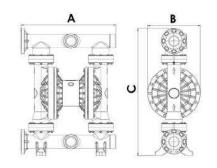
O Air supply pressure

Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PP	780 mm	417 mm	1024 mm	62 kg	- 4 °C	+ 65 °C
PVDF	780 mm	417 mm	1024 mm	77 kg	- 20 °C	+ 95 °C + 95 °C
			940 mm	84 kg	- 20 °C	+ 95 °C
SS	672 mm	417 mm	946,5 mm	122 kg	- 20 °C	+ 95 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P1000	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W = SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM	K = PVDF	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD



PF 20



SS ELECTRO-POLISHED



Fluid connections 3/4" TRI-CLAMP DN 3/4" BS 4825

7 bar

6 mm Air connection

20 lt/min Max. Flow rate

Max air pressure 70 m Max delivery head

5 m Max Suction Lift Dry

9,8 m Max Suction Lift Wet

2,5 mm Max Solid passing

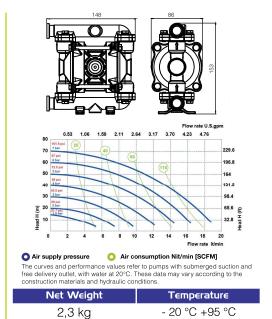
65 dB Noise level:

10.000 cps Max Viscosity:

Displacement per Stroke: 30 CC ~

II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS	
PF0020	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	AB = STANDARD	

PHOENIX FOOD 35

TECHNICAL DATA

PERFORMANCE

PF 35



SS ELECTRO-POLISHED



Fluid connections 1" TRI-CLAMP DN 1" BS 4825

Air connection 6 mm

Max. Flow rate 35 lt/min

Max air pressure 7 bar

Max delivery head 70 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 3 mm

Noise level: 65 dB

Max Viscosity: 15.000 cps

Displacement per Stroke: 65 CC ~

II 3/3 G Ex h IIC T4 Gc

II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

265	Flow rate U.S.gpm
70 11 13 2 13 3 3 3 3 3 3 3 3	229.6 196.8 164 131.2 98.4 65.6 gg
0 5 10 15	hese data may vary according to the
3,8 kg	- 20 °C +95 °C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0035	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	AB = STANDARD

PF 60



SS ELECTRO-POLISHED



Fluid connections 1" TRI-CLAMP DN 1" BS 4825

Air connection 1/4" BSP

Max. Flow rate 65 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 3,5 mm

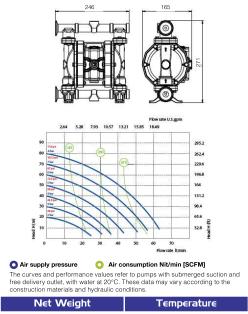
Noise level: **72 dB**

Max Viscosity: 20.000 cps

Displacement per Stroke: 140 CC ~

(E) II 3/3 G Ex h IIC T4 Gc

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.



	•
7,3 kg	- 20 °C +95 °C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0060	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	AB = STANDARD

PHOENIX FOOD 120

TECHNICAL DATA

PERFORMANCE

PF I20



SS ELECTRO-POLISHED

Fluid connections 1" TRI-CLAMP DN 25 ISO 2852

Air connection 3/8" BSP

Max. Flow rate 120 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 4 mm

Noise level: 72 dB

Max Viscosity: 25.000 cps

Displacement per Stroke: 200 CC ~

😥 II 3/3 G Ex h IIC T4 Gc

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

259	Flow rate U.S.gpm
2.64 5.28 7.33 10.57 13.21 15.35 90 100 100 100 100 100 100 100	18.42 21.13 23.78 26.42 22.96 295.2 205.2 227.6 196.8 16.4 13.12 198.4 63.5 22.8 22.8 23.8 24.0 25.0
The curves and performance values refe free delivery outlet, with water at 20°C. To construction materials and hydraulic con-	
Net Weight	Temperature
9,6 kg	- 20 °C +95 °C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0120	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	AB = STANDARD

PF 170



SS ELECTRO-POLISHED



Fluid connections 1"1/2 TRI-CLAMP

DN 1" 1/2 BS 4825

Air connection 1/2" BSP

Max. Flow rate 170 lt/min

Max air pressure 8 bar
Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 7,5 mm

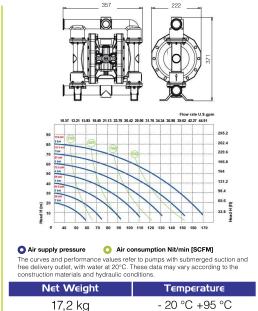
Noise level: **75 dB**

Max Viscosity: **35.000 cps**

Displacement per Stroke: 700 CC ~

II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0170	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	AB = STANDARD

PHOENIX FOOD 400

TECHNICAL DATA

PERFORMANCE

PF 400



SS ELECTRO-POLISHED

Fluid connections 2" TRI-CLAMP
DN 40 ISO 2852

Air connection 1/2" BSP
Max. Flow rate 380 lt/min

Max air pressure 8 bar
Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 8 mm
Noise level: 78 dB

Max Viscosity: 40.000 cps

Displacement per Stroke: 1200 CC ~

II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

361	260 GS 55 How rate U.5 gpm 1575 5246 1655 11888
90 11 10 10 10 10 20 20 25	295.2 262.4 229.6 196.8 104 131.2 98.4 65.6 8 32.8 8 2 9 300 330 400 450 Donsumption Nit/min ISCFMI or to pumps with submerged suction and hose data may vary according to the
Net Weight	Temperature
25,3 kg	- 20 °C +95 °C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0400	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	EF = STANDARD

PERFORMANCE

PF 700



SS ELECTRO-POLISHED

2"1/2 TRI-CLAMP Fluid connections

DN 50 ISO 2852

Air connection 3/4" BSP Max. Flow rate 700 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m Max Suction Lift Wet

Max Solid passing 8,5 mm

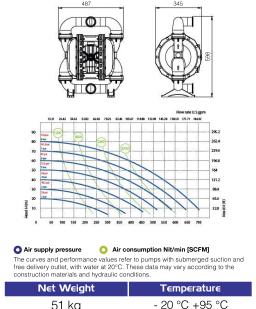
Noise level: 78 dB

Max Viscosity: 50.000 cps

Displacement per Stroke: 3050 CC ~

II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.



Net Weight	Temperature
51 kg	- 20 °C +95 °C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS	
PF0700	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 X = zone 1	EF = STANDARD	

9,8 m

PHOENIX FOOD 1000

TECHNICAL DATA

PERFORMANCE

PF 1000



SS ELECTRO-POLISHED



Fluid connections 3" TRI-CLAMP **DN 80 ISO 2852** 3/4" BSP Air connection 1050 lt/min Max. Flow rate

Max air pressure 8 bar 80 m Max delivery head

Max Suction Lift Dry 5 m

9,8 m Max Suction Lift Wet

12 mm Max Solid passing 82 dB Noise level:

55.000 cps Max Viscosity:

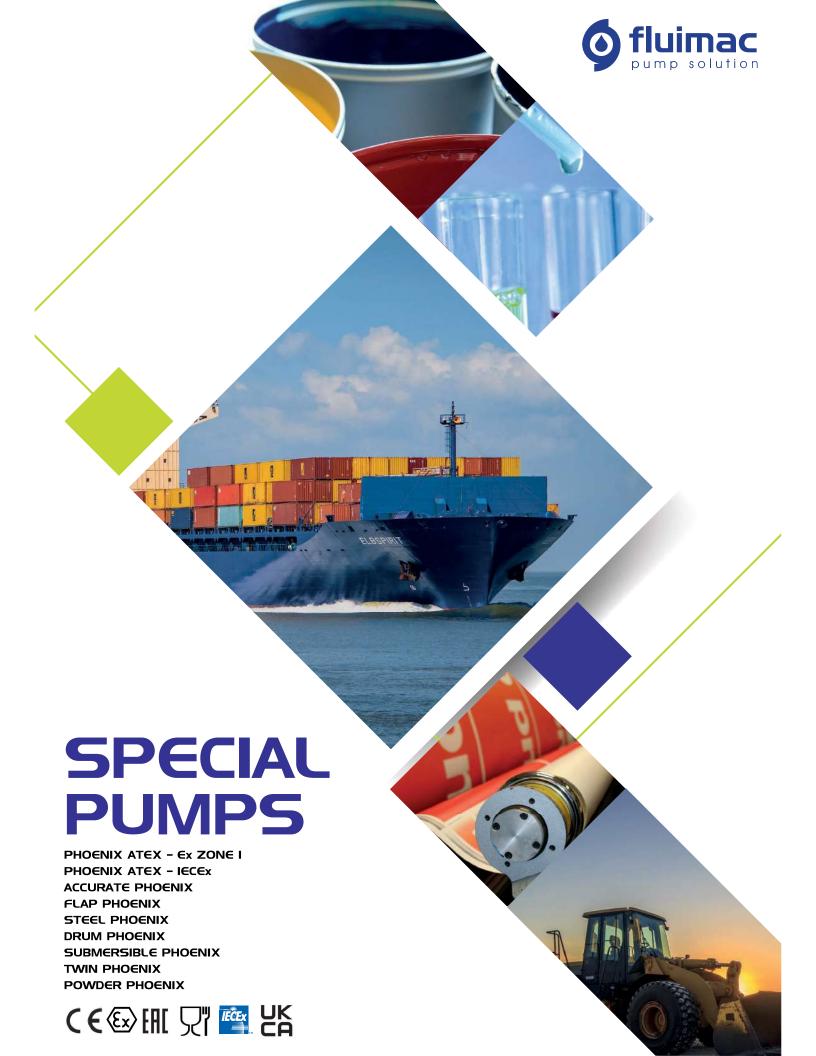
Displacement per Stroke: 9750 CC ~

II 3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

672	417
26.42 52.83 79.25 105.67 122.09 158	Flow rate U.S.gpm .50 184.92 211.34 227.75 264.17 290.59
60 New 100 1000 1000 1000 1000 1000 1000 100	295.2 292.4 222.6 223.6 196.8 194 131.2 98.4 65.6 23.8
free delivery outlet, with water at 20°C.	These data may vary according to the
construction materials and hydraulic co	nditions.
Net Weight	Temperature
122 kg	- 20 °C +95 °C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF1000	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = TRI-CLAMP 6 = DIN	- = zone 2 X = zone 1	AB = STANDARD



PUMPS

MAINS APPLICATIONS

ALL RANGE

- Petrol-Chemical Industry
 Flavo graphic in dustry
- Flexographic industryFood industry
- Painting industry
- Automotive industry

ATEX MARKING (Ex

For the product design and conformity evaluation we used following documents:

- 2014/34/EU: ATEX Directive, on the approximation of European Member States laws concerning protection equipment and systems to be used in potentially explosive environments.
- UNI CEI EN ISO 80079-36:2016 Explosive atmospheres Part 36: Non-electrical equipment for explosive atmospheres Basic method and requirements
- UNI CEI EN ISO 80079-37:2016 Explosive atmospheres Part 37: Non-electrical equipment for explosive atmospheres non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k".

To follow the ATEX marking referred to the equipment for explosive GAS atmosphere:

- (a) | 1 2/2 G Ex h | 11 C T4 Gb (P01-P03-P07-P18-P30-P50-P55-P60-P65-P90-P100-P101-P120)
- (Ex) II 2/2 G Ex h IIB T4 Gb (P160-P170-P171-P250-P252-P400-P700-P1000)

To follow the ATEX marking referred to the equipment for explosive DUST atmosphere:



(all models)

€x>		Safety symbol	
Ш	Equip	ment group for s	urface
2/2 G	Category 2 equipment that can be installed in the presence of an explosive atmosphere consisting of zone 1 gas, even indoors.	2 D	Category 2 equipment that can be installed in the presence of an explosive atmosphere consisting of zone 1 gas, even indoors.
Ex	Symbol to identify it a	as approved unde	er the IECEx scheme
h	Type of protection a	according to ISO	IEC 80079-36:2016
IIB o IIC	Product suitable for installation in the presence of Group IIB or IIC gas (depending on the model)	IIIB	Product suitable for installation in presence of Group IIIB dusts (excluding conductive dusts)
T4	Temperature class	T135°C	Maximum surface temperature
Gb	EPL Gb protection level in accordance with EN 60079-0: 12 and EN 80079-36: 16 Standards.	Db	EPL Gb protection level in accordance with EN 60079-0: 12 and EN 80079-36: 16 Standards.
X	Special Condition for s	safe use: the pum	p can't process explosive dust inside.

Fluimac has filed with the BUREAU VERITAS certification body the documentation certifying ATEX compliance pursuant to Directive 2014/34 / UE for its ranges of AODD pumps and pulsation dampeners, with special construction materials to have zone 1 certification. The equipment user is responsible for classifying their installation zone. Before installation the equipment user always has to check the compliance with the classification of the installation zone.

IECEX MARKING

X



For the product design and conformity evaluation we used following documents:

- UNI CEI EN ISO 80079-36:2016 Explosive atmospheres Part 36: Non-electrical equipment for explosive atmospheres Basic method and requirements
- UNI CEI EN ISO 80079-37:2016 Explosive atmospheres Part 37: Non-electrical equipment for explosive atmospheres non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k".

To follow the IECEx marking referred to the equipment for explosive DUST atmosphere:

Ex h IIC T4 Gb (P01-P03-P07-P18-P30-P50-P55-P60-P65-P90-P100-P101- P120)

Ex h IIB T4 Gb (P160-P170-P171-P250-P252-P400-P700-P1000)

To follow the IECEx marking referred to the equipment for explosive DUST atmosphere: **Ex h IIIB T 135°C Db** (all models)



Special Condition for safe use: the pump can't process explosive dust inside.

Fluimac technical file is deposited with the certifying body IEC EUROFINS.

The equipment user is responsible for classifying their installation zone. Before installation the equipment user always has to check the compliance with the classification of the installation zone.

PHOENIX ATEX FOR MINES (EX)

MAINS APPLICATIONS

ALL RANGE

PUMPS

- PETROL CHIMICAL INDUSTRY
- FLEXOGRAPHIC INDUSTRY
- FOOD INDUSTRY
- PAINTING INDUSTRY
- AUTOMOTIVE INDUSTRY

IM2 Ex h I Mb X

<u> </u>	Mines	
M2	Category M2 equipment that can be installed in mines in "hazardous condition 2" that is in a potentially explosive atmosphere consisting of firedamp and coal dust.	
Ex	Conventional symbol Ex	
h	Protection mode for constructional safety "c"	
ı	Equipment for use in mine	
Mb	Protection level EPL Mb in accordance with EN 60079-0:12 and EN 80079-36:16 standards.	

The internal area of the pump is not ATEX, i.e., it cannot process explosive fluids when installed in mines. The pumps must be installed in areas with low impact risk.

NB: aluminium versions excluded









TECHNICAL DATA

Fluimac technical file is deposited with the certifying body IEC EUROFINS. The equipment user is responsible for classifying their installation zone. Before installation the equipment user always has to check the compliance with the classification of the installation zone.

ACCURATE PHOENIX

PUMPS

AP7	AP90
AP18	AP120
AP30	AP170
AP60	AP252

MAINS APPLICATIONS

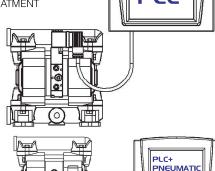
• CHEMICAL INDUSTRY

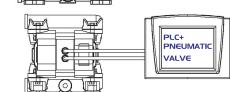
• WASTE DISPOSAL TECHNOLOGY

• FLEXOGRAPHIC INDUSTRY

• PAINTING INDUSTRY PRINTING INDUSTRY

WATER TREATMENT









TECHNICAL DATA

ACCURATE PHOENIX are Pumps that give you the external pump control necessary for exacting applications such as batching. Featuring a direct electrical interface that utilizes electrical impulses to stroke the pump instead of differential pressure, the ACCURATE PHOENIX provides a variable stroke rate that you can easily control as needed.

FLAP PHOENIX

PUMPS

FP0170 FPF0170 FP0400 FPF0400 FP0700 FPF0700 FP1000 FPF1000

MAIN APPLICATIONS

- WASTE DISPOSAL TECHNOLOGY
- FOOD INDUSTRY
- CERAMIC





TECHNICAL DATA

FLAP PHOENIX are heavy duty flap valve pump has a proven design that solves the most common challenges in bad applications, sump applications, mine dewatering, food applications and any liquid application involving solids. Thanks to the FLAP valve the solid passing increase up to 30mm

STEEL PHOENIX

PUMPS

from SP0018 to SP0700 MODELS from SPF0018 to SPF0700 MODELS



MAIN APPLICATIONS

- CHEMICAL INDUSTRY
- AUTOMOTIVE INDUSTRY
- FOOD INDUSTRY



TECHNICAL DATA

The entire construction of the central block is made of Stainless Steel 316 making the PHOENIX STEEL air operated double diaphragms pumps series extremely resistant to corrosion, guaranteeing at the same time robust and solid solution for continuous operations, also with low or high temperature.

DRUM PHOENIX

PUMPS

DP18 - DP30 - DP60 - DP120 - DP170

MAIN APPLICATIONS

- CHEMICAL INDUSTRY
- WASTE DISPOSAL TECHNOLOGY
- AUTOMOTIVE INDUSTRY
- FOOD INDUSTRY



TECHNICAL DATA

DRUM PHOENIX are designed for emptying drums and containers, and provide an economical and wear resistant alternative to other pumping systems. In order to handle a wide range of fluids, DP pumps are available in all materials. The pump can be quickly and easily mounted on the drum with its feet. The drum will be completely emptied with a suction pipe.

SUBMERSIBLE PHOENIX

PUMPS

ALL RANGE

MAIN APPLICATIONS

- CHEMICAL INDUSTRY
- WASTE DISPOSAL TECHNOLOGY
- FOOD INDUSTRY
- PETROL-CHEMICAL INDUSTRYPUMPSMAIN



TECHNICAL DATA

SUBMERSIBLE pumps may be submerged into the liquid. It is important to make sure that all components which are in contact with the liquid are chemically compatible. The air exhaust must be led to the atmosphere by means of a hose.

NOTE: check the compatibility chart for all materials.

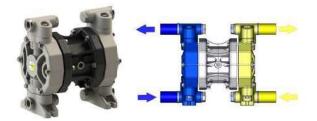
TWIN PHOENIX

PUMPS

ALL RANGE

MAIN APPLICATIONS

- PAINTING INDUSTRY
- WASTEWATER TECHNOLOGY
- PRINTING INDUSTRY
- PAPER PROCESSING
- FLEXOGRAPHIC INDUSTRY



TECHNICAL DATA

TWIN PHOENIX are mainly used in the textile and paper processing industry. These dual action pumps are able to transfer two different media independently and simultaneously. This is accomplished by using separate connections on the suction and discharge ports, keeping two pumped media isolated from each other, preventing unwanted mixing.

POWDER PHOENIX

PUMPS

ALL RANGE

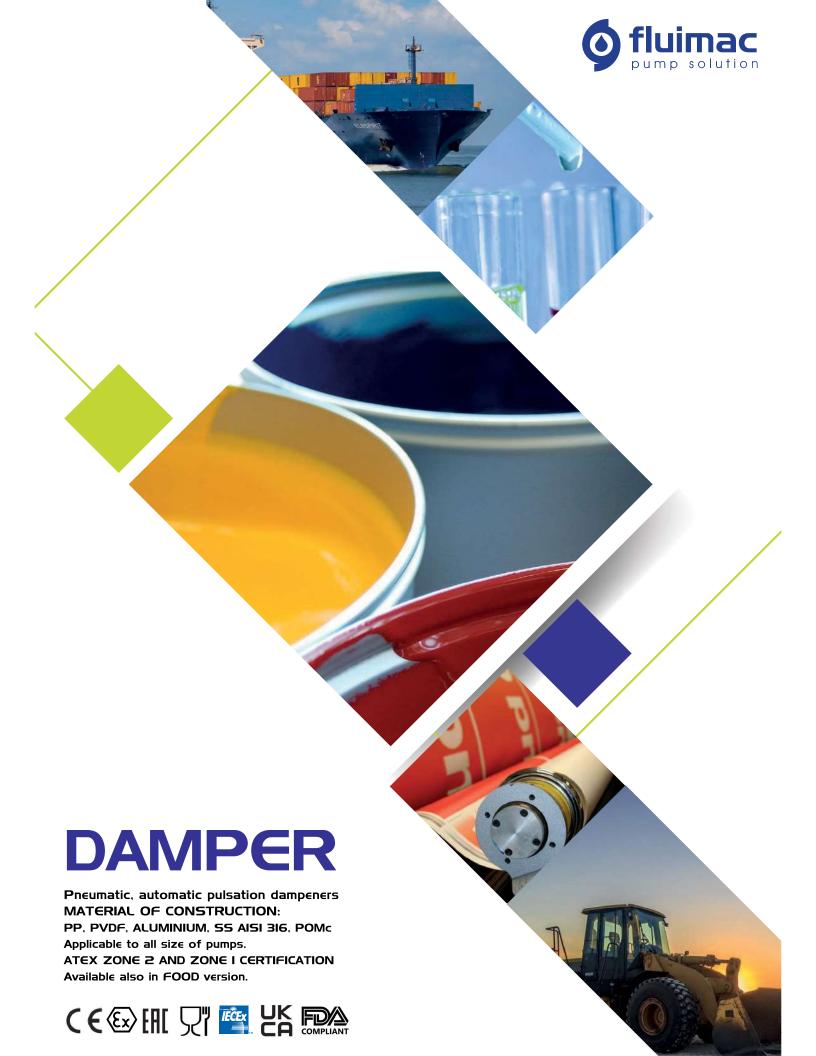
MAIN APPLICATIONS

- PAINTING INDUSTRY
- WASTEWATER TECHNOLOGY
- PRINTING INDUSTRY
- PAPER PROCESSING
- FLEXOGRAPHIC INDUSTRY



TECHNICAL DATA

POWDERS pumps are designed to move bulk powders more effectively throughout your process vs. other unsafe and labor intensive means. These heavy duty pumps will consistently transfer fine-grained, low-bulk density dry powders in a dust-free operation.





The active pulsation dampener is the most efficient way to remove pressure variations on the discharge of the pump. Fluimac pulsation dampener works actively with compressed air and a diaphragm, setting automatically the correct pressure to minimize the pulsations. Pulsation dampeners require minimum maintenance and are, subject to the requirements of the application, available in the same housing and diaphragm materials as the pump.

HOW IT WORK

The pulsating flow of the discharge forces the diaphragm upwards where it is cushioned by the air in the chamber. The flexing of the diaphragm absorbs the pulsation giving a smooth flow.



Significant Pulsation Reduction with an average 70% - 80% pulsation reduction in high back pressure applications



APPLICATION

- METERING/ INJECTION/DOSING Equalizes discharge pressure spikes, increasing accuracy
 FILTER PRESS/INLINE FILTERS
- FILTER PRESS/INLINE FILTERS
 Increases filter efficiency and life by providing a smooth flow
- SPRAYING
- Smooth, consistent spray pattern.
 FILLING
- Eliminates inconsistent filling and splashing.
- TRANSFER
 - Eliminates harmful water hammer, preventing pipe and valve damage.

INSTALLATION



PORT POSITION





DIMENSIONS

D20



PP

PVDF+CF

Fluid connections 3/4" BSP Air connection 6 mm Max air pressure 8 bar Capacity Volume 80 CC ~

II 3/3 G Ex h IIC T4 Gc

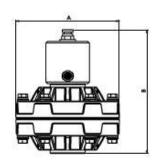
II 3 D Ex h IIIB T135°C Dc X

APPLY TO:





PVDF POMc SS A (mm) 119 119 119 119 B (mm) 143 143 143 143 2 0,65 0,7 0,65 **Net Weight Kg Max Temperature** +65°C +95°C +80°C +95°C -4°C -20°C -5°C -20°C **Min Temperature**



MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D020	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W= SANTOPRENE H.R.	1 = BSP 2 = FLANGE 5 = NPT	T = STANDARD
DE020	S = SS	HT = HYTREL+PTFE	3 ≡ TRI-CLAMP	T ≡ STANDARD

DAMPER 25 **TECHNICAL DATA**

POMc

DIMENSIONS

D25



Fluid connections 1" BSP Air connection 8 mm Max air pressure 8 bar Capacity Volume 200 CC ~

II 3/3 G Ex h IIC T4 Gc

II 3 D Ex h IIIB T135°C Dc X

APPLY TO: 55 - 60 - 90 - 120

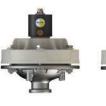
PP



PVDF+CF



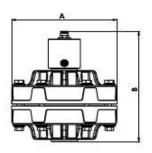






SS SS (DF025)

	PP	PVDF	POMc	55
A (mm)	181	181	181	181
B (mm)	195	195	195	195
Net Weight Kg	1,75	2	1,9	6,7
Max Temperature	+65°C	+95°C	+80°C	+95°C
Min Temperature	-4°C	-20°C	-5°C	-20°C



MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D025	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W= SANTOPRENE H.R. D = EPDM N = NBR	1 = BSP 2 = FLANGE 3 = TRI-CLAMP 5 = NPT	T = STANDARD
DF025	S = SS	HT = HYTREL+PTFE	3 = TRI-CLAMP	T = STANDARD

DIMENSIONS

D40



PP

PVDF+CF

Fluid connections 1" 1/2 BSP Air connection 10 mm

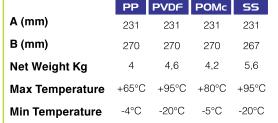
Max air pressure 8 bar Capacity Volume 700 CC ~

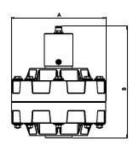
II 3 D Ex h IIIB T135°C Dc X

APPLY TO:

170 - 252 - 400







MODEL	CASING	DIAPHRAGM	CONNECTIONS	PORTS
D040	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W= SANTOPRENE H.R. D = EPDM N = NBR	1 = BSP 2 = FLANGE 5 = NPT	T = STANDARD
DF040	S = SS	HT = HYTREL+PTFE	3 = TRI-CLAMP	T = STANDARD

DAMPER 50

POMc

TECHNICAL DATA

DIMENSIONS

PVDF

404

425

17

+95°C

-20°C

404

425

14

+65°C

-4°C

POMc

400

425

14,5

+80°C

-5°C

SS

402

408

21,6

+95°C

-20°C

D50



Fluid connections 2" BSP Air connection 12 mm

Max air pressure 8 bar Capacity Volume 2900 CC ~

II 3 D Ex h IIIB T135°C Dc X

APPLY TO: 700 - 1000







A (mm)

B (mm)

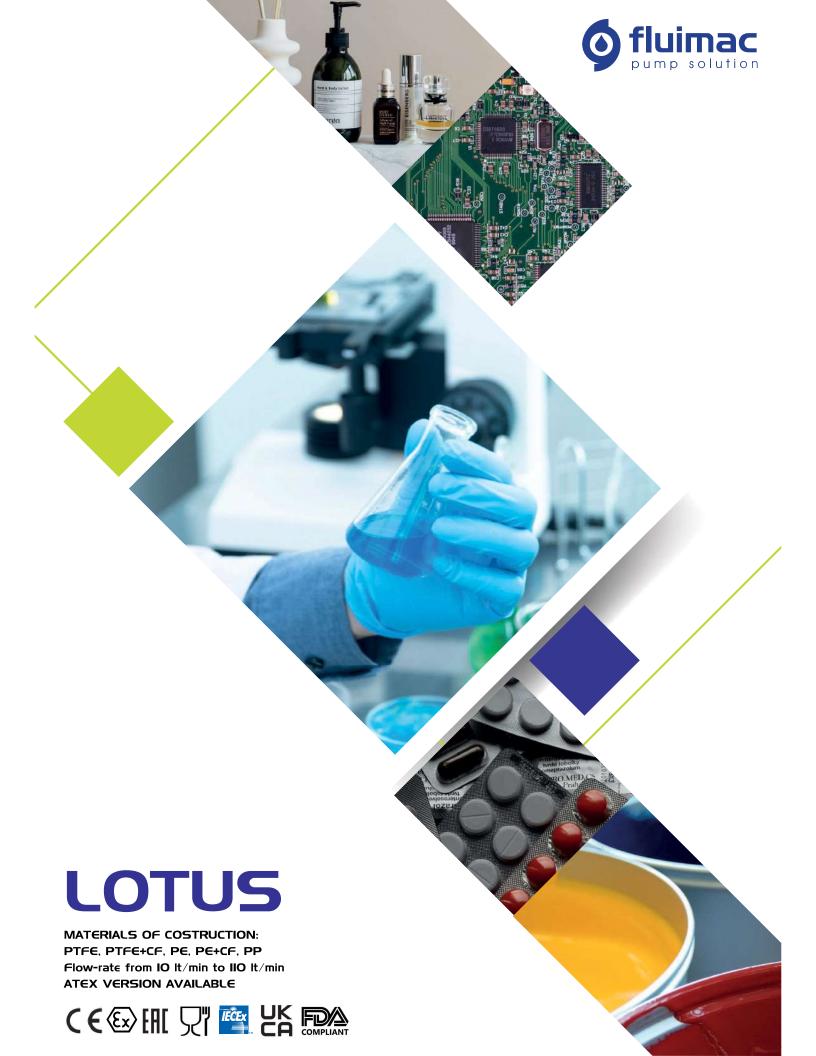
Net Weight Kg

Max Temperature

Min Temperature

PVDF+CF ALU SS SS (DF050)

		,	•		
MODEL	CASING	DIAPHRAGM	O-RING	CONNECTIONS	PORTS
D050	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL W= SANTOPRENE H.R. D = EPDM N = NBR	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGE 5 = NPT	AB = STANDARD
DF050	S = SS	HT = HYTREL+PTFE	T = PTFE	3 = TRI-CLAMP	AB = STANDARD



L 0015

Т-

DT

T

MOD€L

SIZE

CASING

DIAPHRAGM

BALL

L LOTUS



10 10 lt/min 3/8" BSPP

15 55 lt/min 1/2" BSPP

25 110 lt/min 1 BSPP



T PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



TC CONDUCTIVE PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance. Groundable.



Z PE

With high molecular weight: High level of abrasion resistance.



ZCCONDUCTIVE PE

With high molecular weight: High level of abrasion resistance. Groundable.



PP PURE POLYPROPYLENE

Wide chemical compatibily.
General purpose.



DT EPDM+PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



D EPDM

OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.



Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



S SS

High level of corrosion and abrasion resistance. Good for viscous fluids,



D EPDM

OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.

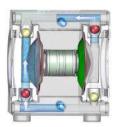


PUMP OPERATION



Fluid

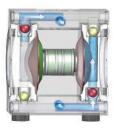




Suction Cycle



Compressed air fills right inner chamber, causing the opposing diaphragm to create suction, lifting the lower valve ball, pulling in fluid at inlet. Simultaneously, the right chamber is in "Discharge" cycle.



Discharge Cycle

2 causing discharge charm

Compressed air fills left inner chamber, causing upper valve ball to open and discharge fluid. Simultaneously, the right chamber is in "Suction" cycle.

T

T

1

EF

BALL SEAT

GASKET

CONNECTIONS

ATEX ZONE

PORTS

T PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance



Z PE

With high molecular weight: High level of abrasion resistance.



PP PURE POLYPROPYLENE

Wide chemical compatibily.
General purpose.



T PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



F FEP-FKM

With high molecular weight: High level of abrasion resistance.



D EPDM

Good with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.



BSP THREATED



FLANGED

5

NPT THREADED



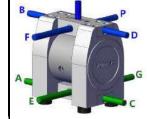
ATEX ZONE 2

L10 and L15 models

☑ II 3/3 G Ex h IIC T4 Gc☑ II 3 D Ex h IIIB T135°C Dc X

L25 model

(☑) II 3/3 G Ex h IIB T4 Gc(☑) II 3 D Ex h IIIB T135°C Dc X



X ATEX ZONE 1

L10 and L15 models

🖾 II 2/2 G Ex h IIC T4 Gb

II 2/2 G Ex h IIB T4 Gb

ऒII 2 D Ex h IIIB T135°C Db X



SPECIAL FEATURES

TL PTFE LOTUS CENTRAL BLOCK IN PTFE

INSTALLATION



Pump installed below head (positive suction)

when it is necessary to empty completely the container



Pump installed above drum or tank

with special featuring pump



Pump installed on a mobile unit

with a trolley or cart when pump must be often moved



Self priming pump installed above head (negative suction)

pump initially works with dry column without problem



Chemical System

pumps are suitable to be integrated in dosing systems for concentrated acids at high temperature The materials of construction of the Lotus series are PTFE, CONDUCTIVE PTFE, PE, CONDUCTIVE PE and PURE POLYPROPYLENE. The Lotus pumps are suitable to work with hazardous chemicals such as acids, caustics, and solvents.

FEATURES AND BENEFITS

- Machined plastic design
- Increased capacity
- Increased safety
- Decreased air consumption
- Easy cleanability
- Reduced noise level
- Decreased downtime
- Optimized flow pattern
- Increased quality
- Long service life
- Increased reliability
- Used in demanding process applications
- Robust plastic design with reinforcement ring for enhanced sealing and torque retention



APPLICATIONS

- Abrasive Slurries
- Solar Cell
- Biopharmaceutical
- Chemicals
- Etching Agents
- Ceramic
- Sludge Transfer
- Glazes Transfer
- Paints
- Varnish
- High Concentrated Acids and Bases

- Grinding and Drilling Emulsions
- Paper and Printing
- Glue Transport
- Printing Inks Transport
- Industrial Water Treatment
- Sample Analysis
- Wastewater Neutralization
- Feeding Filter Presses with Sludge
- Chemical Treatment of Wafers
- Corrosive, Hazardous or Toxic Chemicals

Machined for Precision

FLUIMAC's solid plastic block increases the pump's strength and life cycle while eliminating many maintenance concerns. The LOTUS Series CNC machined solid block of PTFE, PE or PP allows to deal with the harshest environments. The LOTUS Series solid plastic block construction is mechanically machined rather than injection moulded. The CNC technology enables tight tolerances, along with reduced vibration, less risk of leakage, and greater stability and durability. The high static mass leads to smooth operation with reduced vibration.

LIO







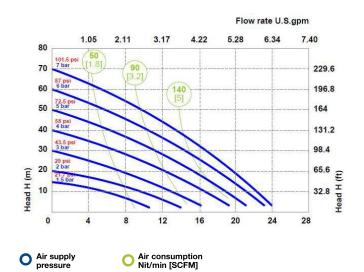
TECHNICAL DATA

Fluid connections 3/8" BSP Air connection 1/4" BSP Max. Flow rate 24 It/min Max air pressure 7 bar Max delivery head 70 m Max Suction Lift Dry 4 m Max Suction Lift Wet 9,8 m Max Solid passing 3 mm Noise level: 65 dB Max Viscosity: 15.000 cps Displacement per Stroke: 65 CC ~

(5) II 3/3 G Ex h IIB T4 Gb
(6) II 3 D Ex h IIIB T135°C Db X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

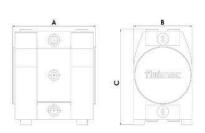
PERFORMANCE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight		
PTFE	157 mm	110 mm	180 mm	5 kg 5 kg 2,5 kg	- 20 °C	+ 120 °C
PTFE+CF	157 mm	110 mm	180 mm	5 kg	- 20 °C	+ 120 °C
PE	157 mm	110 mm	180 mm	2,5 kg	- 4 °C	+ 65 °C
PE+CF	157 mm	110 mm	180 mm	2,5 kg	- 4 °C	+ 65 °C
PP	157 mm	110 mm	180 mm	2,5 kg 2,5 kg	- 4 °C	+ 65 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
L010	T = PTFE TC = PTFE+CF Z = PE ZC = PE+CF PP = PURE PP	DT = EPDM+PTFE D = EPDM	T = PTFE S = SS D = EPDM	T = PTFE Z = PE PP = PURE PP	T = PTFE F = FEP+FKM D = EPDM	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2 X = zone 2	EF = STANDARD

L 15







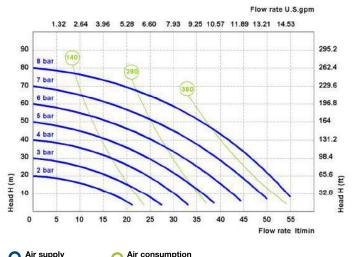
TECHNICAL DATA

Fluid connections 1/2" BSP Air connection 1/4" BSP Max. Flow rate 55 lt/min Max air pressure 8 bar Max delivery head 80 m Max Suction Lift Dry 4 m Max Suction Lift Wet 9,8 m Max Solid passing 3,5 mm Noise level: 70 dB Max Viscosity: 20.000 cps Displacement per Stroke: 140 CC ~

(5) II 3/3 G Ex h IIB T4 Gb
(6) II 3 D Ex h IIIB T135°C Db X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



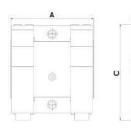
Air supply pressure

Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PTFE	226 mm	160 mm	260 mm	14 kg	- 20 °C	+ 95 °C
PTFE+CF	226 mm	160 mm	260 mm	14 kg	- 20 °C	+ 95 °C
PE	226 mm	160 mm	260 mm	6,7 kg	- 4 °C	+ 65 °C
PE+CF	226 mm	160 mm	260 mm	6,7 kg	- 4 °C	+ 65 °C
PP	226 mm	160 mm	260 mm	6,7 kg	- 4 °C	+ 65 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
L015	T = PTFE TC = PTFE+CF Z = PE ZC = PE+CF PP = PURE PP	DT = EPDM+PTFE D = EPDM	T = PTFE S = SS D = EPDM	T = PTFE Z = PE PP = PURE PP	T = PTFE F = FEP+FKM D = EPDM	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2 X = zone 2	EF = STANDARD

L 25







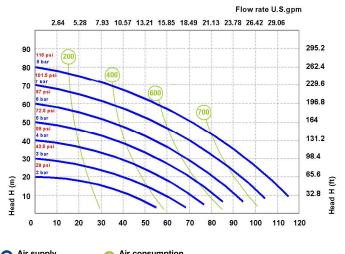
TECHNICAL DATA

Fluid connections 1" BSP Air connection 1/2" BSP Max. Flow rate 110 lt/min Max air pressure 8 bar Max delivery head 80 m Max Suction Lift Dry 5 m Max Suction Lift Wet 9,8 m Max Solid passing 4 mm Noise level: 72 dB Max Viscosity: 25.000 cps Displacement per Stroke: 200 CC ~

(5) II 3/3 G Ex h IIB T4 Gb
(6) II 3 D Ex h IIIB T135°C Db X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE

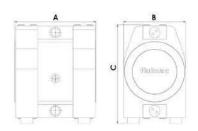


Air supply Pressure Air consumption Nit/min [SCFM]

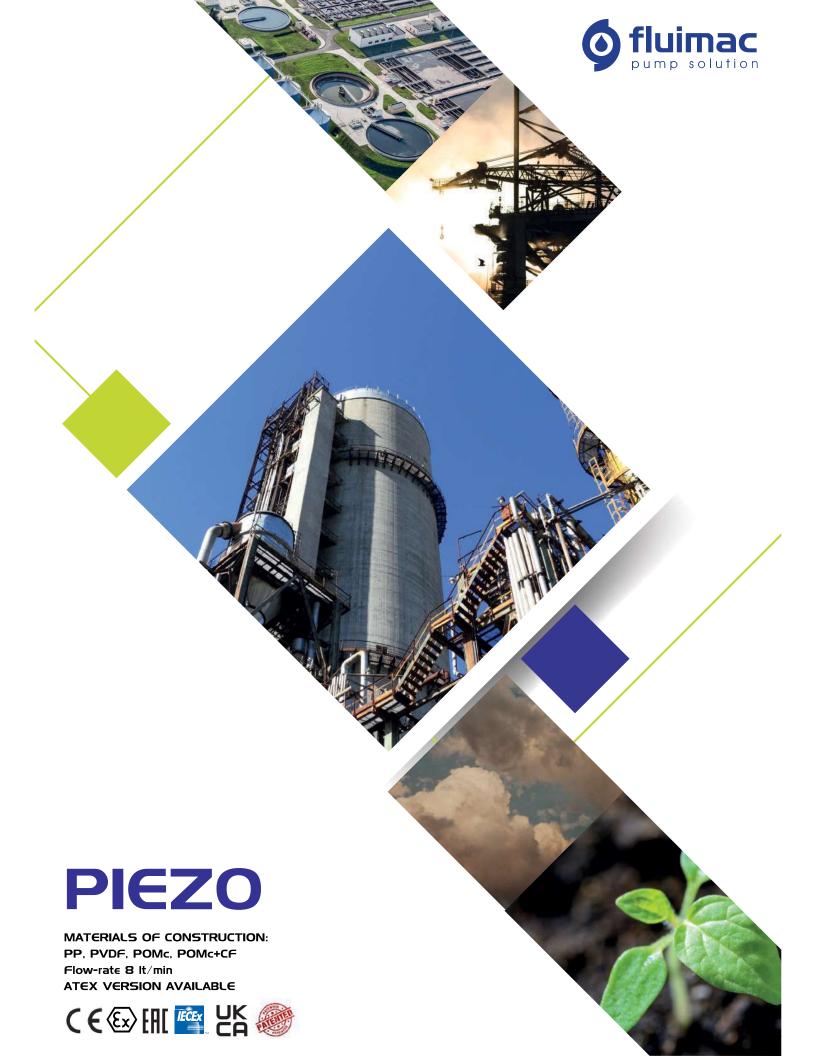
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Temp	erature
PTFE	275 mm	210 mm	334 mm	28,3 kg	- 20 °C	+ 95 °C
PTFE+CF	275 mm	210 mm	334 mm	28,3 kg	- 20 °C	+ 95 °C
PE	275 mm	210 mm	334 mm	28,3 kg	- 20 °C	+ 95 °C
PE+CF	275 mm	210 mm	334 mm	13,83	- 4 °C	+ 65 °C + 65 °C
PP	275 mm	210 mm	334 mm	13,83	- 4 °C	+ 65 °C



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
L025	TF = PTFE TF = PTFE+CF Z = PE ZC = PE+CF PP = PURE PP	DT = EPDM+PTFE D = EPDM	T = PTFE S = SS D = EPDM	T = PTFE Z = PE PP = PURE PP	T = PTFE F = FEP+FKM D = EPDM	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2 X = zone 1	EF = STANDARD



PIEZO

FLUIMAC developed and patented a new pump model, PIEZO PUMP, a unique pump, designed for the environmntal remediation applications.

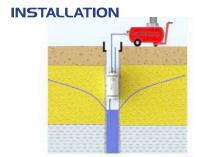
PIEZO PUMP is an easily transportable pneumatic system, which can be installed inside wells with a minimum internal diameter of 4" for the following purposes:

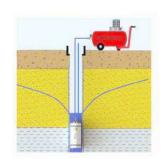
- Groundwater pumping as part of remediation activities or remediation plants;
- Recovery Technology for LNAPL / DNALP (light / dense non-aqueous phase liquid);
- Oil handling in ATEX classified areas;
- Low-flow representative sampling at different depths inside environmental monitoring wells;
- Excellent tool for environmental emergency response activities.

FEATURES:

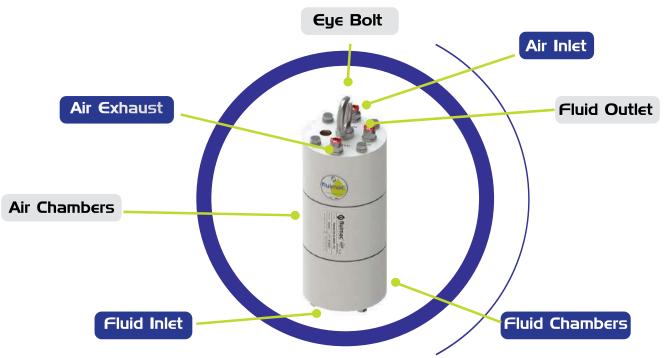
- Operation with high subsidence value of water level (max. approx. 50 m);
- Possibility to work both above and below the water level;
- Can work with solids in the water flow (max. approx. 2.5 mm);
- Constant pumping at low flow rates (approx. 0.25-4.00 l/min)
- Easy flow management through compressed air supply;
- Lightweight, compact and compatible with 4" wells;
- Possibility to send the air exhaust out of the well.











PZ 0001

P-

CASING

TT

DIAPHRAGM

S

BALL

PZ PIEZO PUMP

MODEL



1 8 lt/min

1/4" BSPP

SIZ€



P POLYPROPYLENE

Wide chemical compatibility. General purpose. Reinforced with glass-fiber.



K PVDF

Strong chemical resistance to acids. High temperature resistance. Groundable.



O ACETAL

Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance.



OC CONDUCTIVE ACETAL

Wide range of solvent and hydrocarbons. Good level of abrasion resistance. Groundable.



N NBR

Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals.



T PTFE

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.





Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.





High level of corrosion and abrasion resistance. Good for viscous fluids.

ATEX ZONE CONNECTIONS **BALL SEAT GASKET PORTS** CERTIFICATION 1 $\langle \varepsilon_x \rangle$ VITON **POLYPROPYLENE** BSP THREATED Wide chemical High heat resistance. compatibility. Good resistance to ATEX ZONE 2 General purpose. aggressive chemicals II 3/3 G Ex h IIC T4 Gc and hydrocarbons. € II 3 D Ex h IIIB T135°C Dc X X ATEX ZONE 1 **PVDF** NBR Strong chemical Good for (II 2 D Ex h IIIB T135°C Db X petroleum-based resistance to acids. High temperature fluids, water, oils, resistance. hydrocarbons and MILD chemicals. 0 **ACETAL** Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance.

PIEZO PUMP





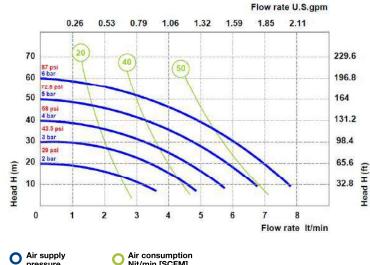
TECHNICAL DATA

1/4" BSP Fluid connections Air connection 1/4" BSP Max. Flow rate 8 It/min Max air pressure 6 bar Max delivery head 60 m Max Suction Lift Dry 3 m Max Solid passing 2 mm Noise level 65 dB Max Viscosity 5.000 cps 24 CC ~ Displacement per Stroke

II 3/3 G Ex h IIB T4 Gc
 II -/3 D Ex h IIIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

PERFORMANCE



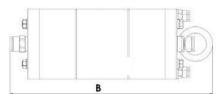
Air consumption Nit/min [SCFM]

The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В		Temperature	
POMC+CF		242 mm	1,7 kg	- 5 °C	+ 80 °C + 80 °C + 69 + 65 °C
POMc PVDF	90 mm 90 mm	242 mm 242 mm	1,7 kg 2,2 kg	- 5 °C - 20 °C	+ 80 °C + 69
PP	90 mm	242 mm	1,7 kg	- 4 °C	+ 65 °C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTION	S ATEX	PORTS
PZ001	O = POMc P = PP K = PVDF OC = POM+0	N = NBR TT = PTFE+PTFE		O = POMc P = PP K = PVDF	N = NBRV = VITOND = EDPM	1 = BSP	- = ZONE 2 X = ZONE 1	TS = STANDARD



AIR REGULATION KIT

Adjust and set air pressure and air flow-rate with a filter regulator, pressure gauge and air valve unit.



INOX TROLLEY

It makes pumps transportable.



SWITCH VALVES

Remotely start and stop with a solenoid or pneumatic valve for the pump's air line.



ANTI VIBRATION FEET KITI

Reduces physical vibration from AODD pump operation.



STROKE COUNTER

Count the number of strokes, connected to a control. It allows various type of monitoring.



PP. PVDF. ALU SS NOOZLE

Dispenser to delivery control and batching.



DIAPHRAM FAILURE DETECTION FLUID-GUARD

The Leak Detector provide a signal and the pump can be shut down when diaphrams fail.



REINFORCED PVC HOSE

With metal reinforcement for suction/discharge, also food-grade.



PNEUMATIC BATCH CONTROL

Pneumatic batcher can control any FLUIMAC AODD pump allowing you to set the cycles amount and count the strokes



FOOT BALL VALVE

Realized in PP and PVDF.
Size available 1" - 1"1/4 - 1"1/2 - 2"
Used to prevent the suction hose from emptyng.



ELECTRONIC BATCH CONTROL

Electronic batcher can control any FLUIMAC AODD pump allowing you to set the cycles amount and count the strokes



VALVES FITTINGS AND

CONNECTIONS IN PP. PVC. INOX



BASKET STRAINER FILTERS

Installed on the suction of the pumps, protects them from suspended solids and impurity.



FLANGE CONNECTION KIT

It modifies a pump with BSP connection into a flanged pump.



PRESSURE BOOSTER

Where the line pressure is not enough, this system doubles the in let pressure to supply correctly the air to the pump



WALL FIXING BRACKET

Wall fixing bracket for diaphragm pumps, for all sizes.

















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