



PHOENIX

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

Made in Italy

www.fluimac.com





fluimac pump solution





MAIN FEATURES

Fluimac is an original, young and dynamic company built in 2012 for a new concept of product.

It is specialized in providing pump solutions with an innovative and continuously developing design of range.

The huge experience, knowledge and efficiency of its team is the starting point of its own business.

Fluimac stands out for its reliable and prompt technical support and assistance.

The internal research and development department ensures the proficiency of its team, which constantly grows in order to satisfy all the customers' needs.

The company keeps up with the constant evolution of the national and international market and its quality control guarantees innovative and certificated products, which respect current legal standards.

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.

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FLUIMAC'S CERTIFICATES



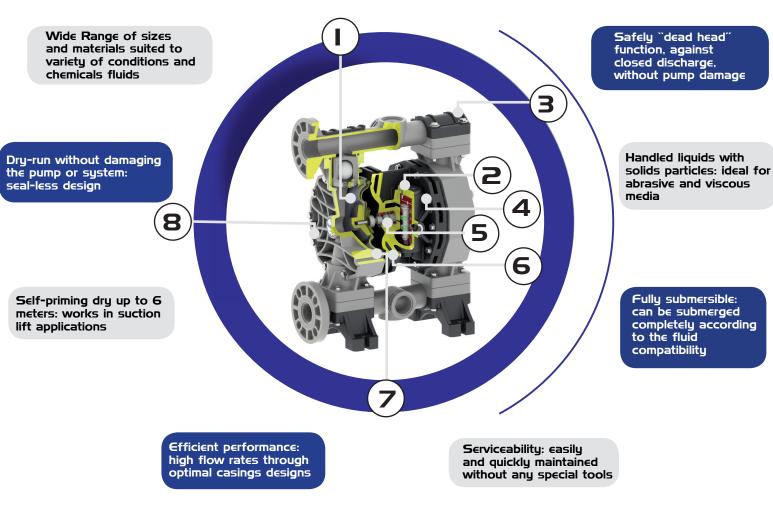






PRODUCTS	RANGE	CERTIFICATES
Air operated double diaphragm pumps have long been recognized as the most flexible pumps of the industry for handling difficult	PHOENIX Air operated double diaphragm pumps Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 7 lt/min to 1.000 lt/min. Connection from 1/4" to 3".	C € [H[ⓒ
liquids at relatively low pressures and flows. The range of applications is virtually limitless. Fluimac AODD pumps come in many sizes and choices	PHOENIX FOOD Air operated double diaphragms pumps Realized in: SS AISI 316 electro-polished. Flow-rate from 20 lt/min to 1.000 lt/min. Tri-Clamp Connection.	
of materials of construction. Almost every type of liquid from highly corrosive acids through high viscosity paints and adhesives, to food and drink products can be	PHOENIX ATEX Air operated double diaphragms pumps, ATEX certified for zone1. Realized in: PP+CF, PVDF+CF, ALUMINIUM, SS AISI 316, POMc+CF Flow-rate from 7 lt/min to 1.000 lt/min. Connection from 1/4" to 3".	
pumped.	ACCURATE PHOENIX Double diaphragm pumps with remote control Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 7 lt/min to 250 lt/min. Connection from 1/4" to 1"1/4.	
	DRUM PHOENIX Air operated double diaphragms pumps with special features to empty drums and tanks Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 20 lt/min to 170 lt/min. Connection from 3/8" to 1".	C € [H[€x)
	TWIN PHOENIX Air operated double diaphragms pumps with special features with double inlet/outlet Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 7 It/min to 700 It/min. Connection from 1/4" to 2".	C € [H[&>
	SUBMERSIBLE PHOENIX Air operated double diaphragm pumps with special features, design to be submerged. Applicable to all size of pumps.	C € [H[&
	POWDER PHOENIX Air operated double diaphragms pump with special design to handle powder Realized in: ALU, SS. Size available 1"½ and 2".	
	DAMPER Pneumatic, automatic pulsation dampeners. Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Applicable to all size of pumps. Available also in ATEX and FOOD version.	C E EHI Ex FD/A

TECHNICAL FEATURES



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

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

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 abov∈ drum or tank

pump

Pump installed on hopper for high viscosity liquid

with special featuring 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 Suspended Pump installed pump

special version it is necessary to check with fixing feet the chemical compatibility part, for ceiling fixing

On a mobile unit

with a trolley or cart when pump also in the upper must be often moved

0120

SIZE

CASING

ΗТ

BALL

MODEL
P PHOENIX PF PHOENIX FOOD AP ACCURATE PHOENIX
TP TWIN PHOENIX PP POWDER PHOENIX
SP SUBMERSIBLE PHOENIX



30 - 35 lt/min

55 - 55 lt/min

60 - 65 lt/min

90 - 100 lt/min

120 - 120 lt/min

170 - 170 lt/min

252 - 250 lt/min

400 - 380 lt/min

700 - 700 lt/min

1000 - 1050 lt/min



POLYPROPYLENE

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



CONDUCTIVE **POLYPROPYLENE**

Wide chemical compatibility. General purpose. Groundable.



KC CONDUCTIVE PVDF

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



0 **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.



ALUMINIUM

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



S SS AISI 316

High level of corrosion and abrasion resistance.



SS - AISI 316 Electropolished

High level of corrosion and abrasion resistance. Phoenix Food.



N **NBR**

DIAPHRAGM

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



D **EPDM**

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



Т PTFE

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



HYTREL

Good low temperature properties. Good abrasion resistance



M **SANTOPRENE**

solutions and dilute acids.









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

Т **PTFE**



non-adhesive, high heat resistance.

SS



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.



V VITON

Ν

NBR

Good for

petroleum-based

fluids, water, oils,

MILD chemicals.

hydrocarbons and

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



FLANGED

TRI-CLAMP

(PHOENIX FOOD)

NPT THREATED

6 - DIN 11851/3

(PHOENIX FOOD)

2

BSP THREATED



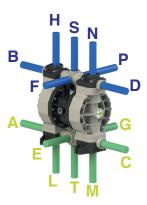
ATEX ZONE 2

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



ATEX ZONE 1

- 😥 II 2/2 G Ex h IIB T4 Gb
- € II -/2 D Ex h IIIB T135°C Db X





K **PVDF**

Strong chemical resistance to acids. High temperature resistance.



D **EPDM**

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



Т PTFE

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



S

A

ALUMINIUM

resistance.

Wide range of solvent

and hydrocarbons. Good level of abrasion

High level of corrosion and abrasion resistance.



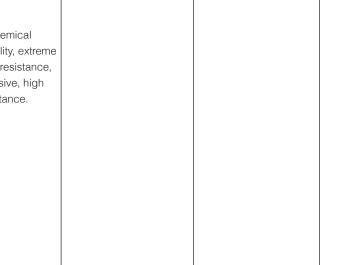
Z PE

With high molecular weight: High level of abrasion resistance



ACETAL

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



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

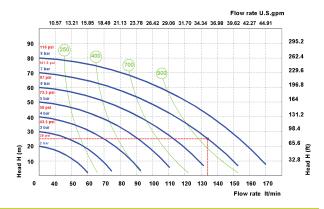
Considering these parameters, an optimal pump size is selected when the intersection of the intended installation "pressure vs. flow rate" is near the middle section of the curves.

USING PERFORMANCE CURVES

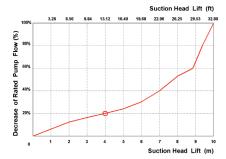
To determine compressed air requirements and proper size for a FLUIMAC AODD pump, two elements of information are required:

- 1 Required Flow Rate
- 2 Total Delivery Head

As an example, consider a P170 pump performance curve, pumping about 135 lt/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.

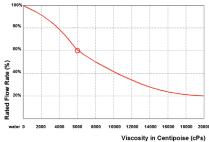


SPECIFIED SUCTION LIFT



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
			4		Webbby.		
Variable Flow & Head Control	✓	✓	\checkmark	\checkmark	!	✓	V
Deadhead Safely	✓	!	!	!	!	!	!
Dry-Running	✓	x	X	X	X	✓	X
Dry Self-Priming	✓	x	X	✓	X	✓	!
No Mechanical Alignment	<	x	X	х	х	x	х
No Electrical Installation	✓	x	X	X	X	x	X
Portability	✓	✓	!	!	!	✓	!
Submersible	✓	!	X	х	х	x	!
Sealless	✓	!	!	!	!	!	!
Cavitation Tolerance	✓	x	!	!	✓	✓	!
Low Shear & Degradation	✓	x	✓	✓	!	\checkmark	!



PHOENIX

Realized in:

PP, PVDF, ALUMINIUM, SS AISI 316, POMc

Flow-rate from 7 lt/min to I.000 lt/min

Connection from I/4" to 3".

ATEX certification for zone 2

- (€x) II 3/3 G €x h IIB T4 Gc
- II -/3 D €x h IIIB TI35°C Dc X











POMc

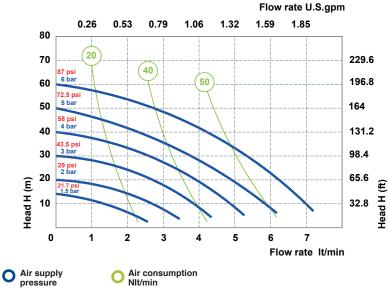
Fluid connections	1/4" BSP
Air connection	4 mm
Max. Flow rate	7 lt/min
Max air pressure	6 bar
Max delivery head	60 m
Max Suction Lift Dry	3 m
Max Suction Lift Wet	9,8 m
Max Solid passing	2 mm
Noise level:	62 dB
Max Viscosity:	5.000 cps
Displacement per Stroke:	18 CC ~

🐼 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

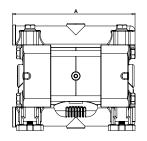


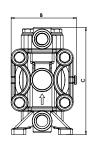
Air supply pressure

The curves and performance values refer to pumps with submerged suction and 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	68 mm	112 mm	0,84 Kg	- 4°C	+ 65°C
PVDF	129 mm	68 mm	112 mm	0,96 Kg	- 20°C	+ 95°C
POMc	129 mm	68 mm	112 mm	0,84 Kg	- 5°C	+ 80°C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0007	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 5 = NPT	- = zone 2	AB = STANDARD





PVDF+CF



POMc



SS

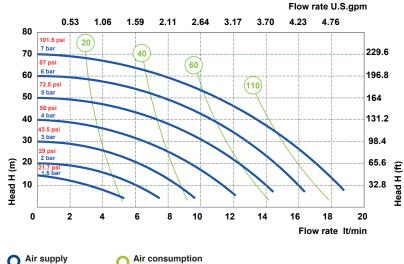
Fluid connections	3/8" BSP
Air connection	6 mm
Max. Flow rate	20 lt/min
Max air pressure	7 bar
Max delivery head	70 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	2,5 mm
Noise level:	65 dB
Max Viscosity:	10.000 cps
Displacement per Stroke:	30 CC ~

🐼 II 3/3 G Ex h 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



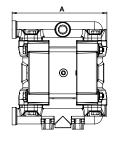
pressure

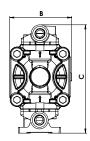
Air consumption NIt/min

The curves and performance values refer to pumps with submerged suction and 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	Tempe	erature
PP	146 mm	96 mm	167 mm	1,3 Kg	- 4°C	+ 65°C
PVDF	146 mm	96 mm	167 mm	1,6 Kg	- 20°C	+ 95°C
POMc	146 mm	96 mm	167 mm	1,5 Kg	- 5°C	+ 80°C + 95°C
SS	148 mm	92 mm	152 mm	2,3 Kg	- 20°C	+ 95°C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0018	P = PP KC = PVDF+CF O = POMc SS = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE	T = PTFE S = SS	P = PP K = PVDF O = POMc S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 5 = NPT	- = zone 2	AB = STANDARD







PVDF+CF



ALU



SS

TECHNICAL DATA

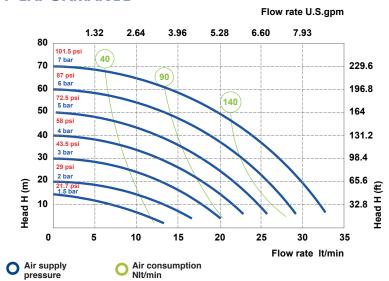
Fluid connections	1/2" BSP
Air connection	6 mm
Max. Flow rate	35 lt/min
Max air pressure	7 bar
Max delivery head	70 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	3 mm
Noise level:	65 dB
Max Viscosity:	15.000 cps
Displacement per Stroke:	65 CC ~

Displacement per Stroke:

| I 3/3 G Ex h IIB T4 Gc | I -/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.

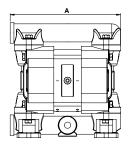
PERFORMANCE

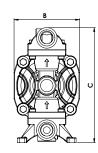


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	erature
PP	177 mm	105 mm	185 mm	1,8 Kg	- 4°C	+ 65°C
PVDF	177 mm	105 mm	185 mm	2,3 Kg		+ 95°C
ALU	183 mm	110 mm	189 mm	2,8 Kg		+ 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
P0030	P = PP KC = PVDF+CF S = SS A = ALU		T = PTFE S = SS 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



PP



PVDF+CF



ALU

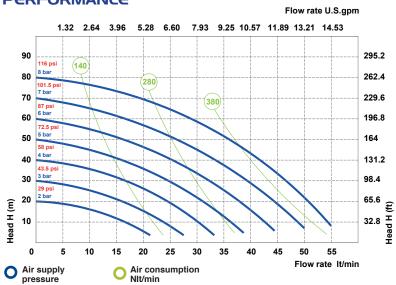


TECHNICAL DATA

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	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 ~

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

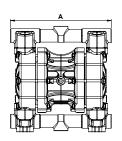
PERFORMANCE

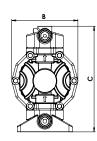


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	erature
PP	238 mm	156 mm	249 mm	3,8 Kg	- 4°C	+ 65°C
PVDF	238 mm	156 mm	249 mm	4,8 Kg	- 20°C	+ 95°C
ALU	234 mm	156 mm	245 mm	3,8 Kg		+ 95°C
SS	234 mm	156 mm	268 mm	6,8 Kg	- 20°C	+ 95°C





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 M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD



PP



PVDF+CF



ALU



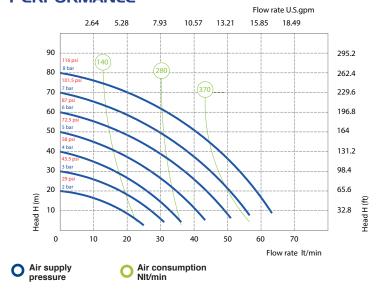
TECHNICAL DATA

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

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.

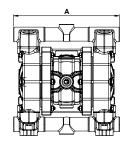
PERFORMANCE

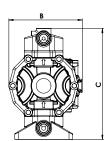


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	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	- 20°C	+ 95°C
ALU	234 mm	165 mm	245 mm	4,3 Kg	- 20°C	+ 95°C
SS	234 mm	165 mm	268 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 M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD





PVDF+CF



ALU (P 100)



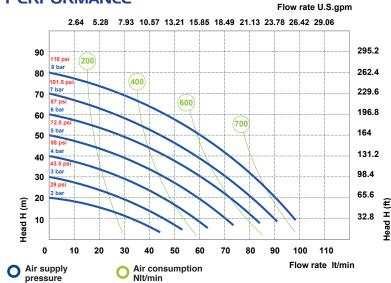
TECHNICAL DATA

Fluid connections	3/4" BSP
Air connection	3/8" BSP
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 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.

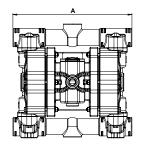
PERFORMANCE

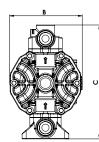


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	erature
PP	293 mm	176 mm	280 mm	5,1 Kg	- 4°C	+ 65°C
PVDF	293 mm	176 mm	280 mm	6,6 Kg	- 20°C	+ 95°C
ALU	265 mm	178 mm	245 mm	5,6 Kg		+ 95°C
SS	247 mm	178 mm	251 mm	7,6 Kg	- 20°C	+ 95°C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0090 P0100	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD



PP



PVDF+CF



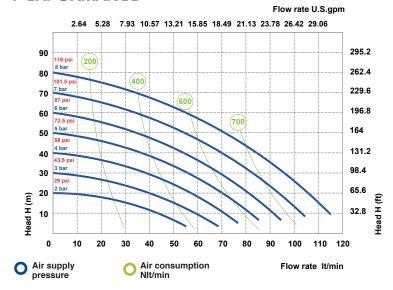
SS

TECHNICAL DATA

Fluid connections	1" BSP
Air connection	3/8" BSP
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 ~

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

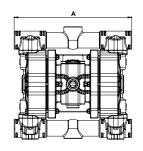
PERFORMANCE

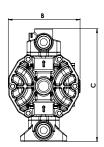


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20° C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	erature
PP	293 mm	178 mm	280 mm	5,6 Kg	- 4°C	+ 65°C
PVDF	293 mm	178 mm	280 mm	7,6 Kg		+ 95°C
SS	258 mm	177 mm	295 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	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS 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





PVDF+CF



ALU (P 160)

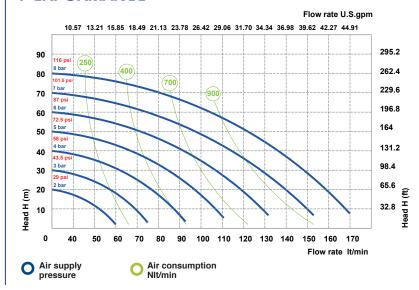


Fluid connections	1" BSP - DN25
Air connection	1/2" BSP
Max. Flow rate	170 lt/mm
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	7,5 mm
Noise level:	75 dB
Max Viscosity:	35.000 cps
Displacement per Stroke:	700 CC ~

⑤ II 3/3 G Ex h IIB T4 Gc
 ⑥ 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.

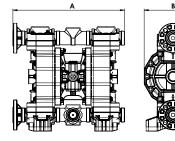
PERFORMANCE

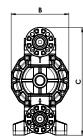


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	erature
PP	430 mm	222 mm	416 mm	14,2 Kg	- 4°C	+ 65°C
PVDF	430 mm	222 mm	416 mm	16,2 Kg		+ 95°C
ALU	370 mm	222 mm	364 mm	13,2 Kg		+ 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
P0170 P0160	P = PP KC = PVDF+CF S = SS A = ALU	HT =HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD





PVDF+CF



ALU (P 250)



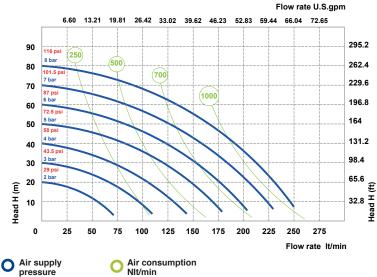
SS

Fluid connections	1"1/4" BSP
Air connection	1/2" BSP
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 ~

⑤ II 3/3 G Ex h IIB T4 Gc
 ⑥ 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

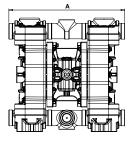


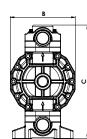
pressure

The curves and performance values refer to pumps with submerged suction and 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	Tempe	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	364 mm	13,2 Kg		+ 95°C
SS	357 mm	222 mm	374 mm	17,2 Kg	- 20°C	+ 95°C





MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0252 P0250	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD

400





PVDF+CF



ALU



TECHNICAL DATA

Fluid connections 1"1/2 BSP - DN 40

1/2" BSP Air connection

380 lt/min Max. Flow rate

8 bar Max air pressure

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 8 mm

78 dB Noise level:

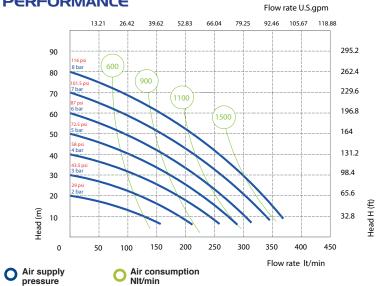
Max Viscosity: 40.000 cps

Displacement per Stroke: 1200 CC ~

₩ 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.

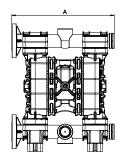
PERFORMANCE

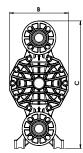


The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	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		+ 95°C
ALU	445 mm	260 mm	563 mm	22,2 Kg		+ 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 M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD EF = STANDARD SS





PVDF+CF

3/4" BSP



ALU



55

TECHNICAL DATA

Air connection

Fluid connections 2" BSP - DN 50

700 lt/min Max. Flow rate

8 bar Max air pressure

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 ~

⟨E⟩ II 3/3 G Ex h IIB T4 Gc
 ⟨E⟩ 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



pressure

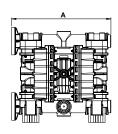
Air consumption NIt/min

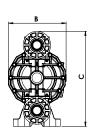
The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	Α	В	С	Net Weight	Tempe	erature
PP	595 mm	345 mm	570 mm	30,6 Kg	- 4°C	+ 65°C
PVDF	595 mm	345 mm	570 mm	41,6 Kg	- 20°C	+ 95°C
ALU	595 mm	345 mm	567 mm	37,6 Kg		+ 95°C
SS	487 mm	345 mm	599 mm	51 Kg	- 20°C	+ 95°C

N = NBR





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 M = SANTOPRENE D = EPDM	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD EF = STANDARD SS

1000







PVDF





TECHNICAL DATA

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

Max. Flow rate 1050 lt/min

8 bar Max air pressure 80 m Max delivery head

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 12 mm 82 dB Noise level:

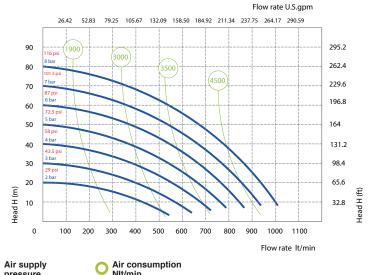
Max Viscosity: 55.000 cps

Displacement per Stroke: 9750 CC ~

⟨E⟩ II 3/3 G Ex h IIB T4 Gc
 ⟨E⟩ 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



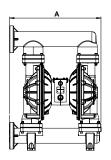
pressure

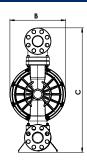
Air consumption NIt/min

The curves and performance values refer to pumps with submerged suction and 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	Tempe	erature
PP	685 mm	417 mm	933 mm	48,5 Kg	- 4°C	+ 65°C
PVDF	685 mm	417 mm	933 mm	53,5 Kg	- 20°C	+ 95°C
ALU	570 mm	420 mm	838 mm	53,5 Kg		+ 95°C
SS	570 mm	420 mm	838 mm	111,5 Kg	- 20°C	+ 95°C





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



PHOENIX FOOD

Air operated double diaphragms pumps Realized in:

SS AISI 316 electro-polished

Flow-rate from 20lt/min to I.000 lt/min Tri-Clamp Connection.

ATEX certification

Atex zone 2 🖾 II 3/3 G Ex h IIB T4 Gc

ⓑ II -/3 D **€**x h IIIB TI35°C Dc X

Atex zone I 🔛 II 2/2 G Ex h IIB T4 Gb

x II -/2 D ex h IIIB TI35°C Db X



PF 18



AISI 316 ELECTRO-POLISHED

Fluid connections 3/4" TRI-CLAMP

Air connection 6 mm

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

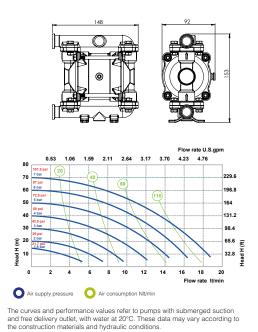
Noise level: 65 dB

Max Viscosity: 10.000 cps

Displacement per Stroke: 30 CC ~

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

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



Net Weight Temperature

2,3 Kg -20°C +95°C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0018	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP	- = zone 2 X = zone 1	AB = STANDARD

PHOENIX FOOD 30

TECHNICAL DATA

PERFORMANCE

PF 30



AISI 316 ELECTRO-POLISHED

Fluid connections 1" TRI-CLAMP
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

Noise level: 65 dB

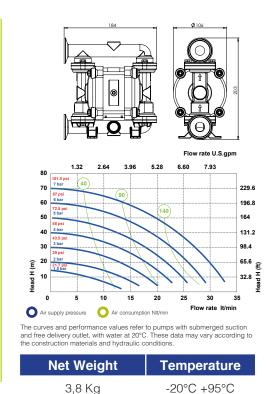
Max Solid passing

Max Viscosity: **15.000 cps**

Displacement per Stroke: 65 CC ~

ATEX ZONE 2 certification as Standard and, on request, **ATEX ZONE 1**.

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
PF0030	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

3 mm

PERFORMANCE

PF 60



AISI 316 ELECTRO-POLISHED

Fluid connections 1" TRI-CLAMP 1/4" BSP Air connection

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

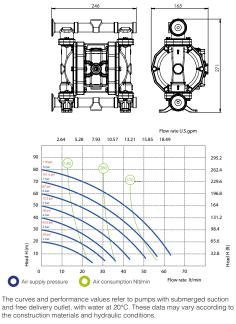
Max Viscosity: 20.000 cps

Displacement per Stroke: 140 CC ~

ATEX ZONE 2 certification as Standard and,

on request, ATEX ZONE 1.

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



Net Weight	Temperature				
7 3 Ka	-20°C +05°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



AISI 316 ELECTRO-POLISHED

Fluid connections 1"1/2"TRI-CLAMP

3/8" BSP Air connection

Max. Flow rate 120 lt/min

8 bar Max air pressure

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 4 mm

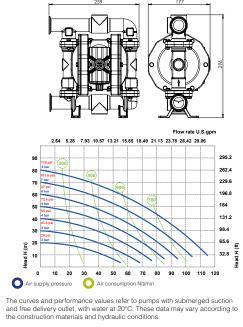
72 dB Noise level:

Max Viscosity: 25.000 cps

Displacement per Stroke: 200 CC ~

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

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



Net Weight	Temperature

-20°C +95°C

9,6 Kg

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



AISI 316 ELECTRO-POLISHED

DIAPHRA

HT =HYTREL+PTFE

Fluid connections 1"1/2 TRI-CLAMP

1/2" BSP Air connection

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

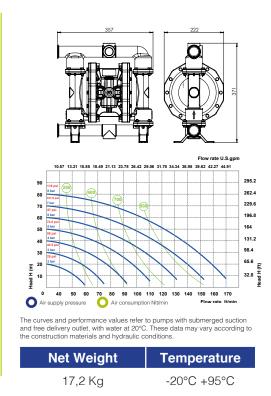
Displacement per Stroke: 700 CC ~

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

Displacement per stroke may vary based on suction condition,

discharge head, air pressure and fluid type.

S = SS



AGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
DTEE	T = PTFE	2 00	- DTEE	3 = TRI-CLAMP	-= zone 2	AB OTANDADD

1 = BSP

6 = DIN

T = PTFF

PHOENIX FOOD 400

S = SS

POLISHED

PF0170

TECHNICAL DATA

S = SS

PERFORMANCE

X = zone 1

AB = STANDARD

PF 400



AISI 316 ELECTRO-POLISHED

Fluid connections 2" TRI-CLAMP 1/2" BSP Air connection Max. Flow rate 380 lt/min 8 bar Max air pressure

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet Max Solid passing 8 mm

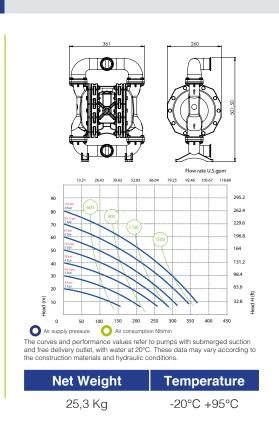
Noise level: 78 dB

Max Viscosity: 40.000 cps

Displacement per Stroke: 1200 CC ~

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

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
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

9,8 m

PF 700



AISI 316 ELECTRO-POLISHED

Fluid connections 2"1/2 TRI-CLAMP

3/4" BSP Air connection

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

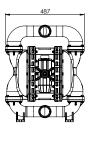
Noise level: 78 dB

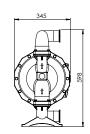
Max Viscosity: 50.000 cps

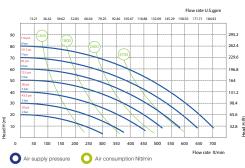
Displacement per Stroke: 3050 CC ~

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

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







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

Net Weight	Temperature
51 Ka	-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

PHOENIX FOOD 1000

TECHNICAL DATA

PERFORMANCE

PF 1000



AISI 316 ELECTRO-POLISHED

Fluid connections 3" BSP

3/4" BSP Air connection

Max. Flow rate 1050 lt/min

8 bar Max air pressure

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 12 mm

82 dB Noise level:

Max Viscosity: 55.000 cps

Displacement per Stroke: 9750 CC ~

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

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

295.2 262.4 229.6 196.8 Air consumption NIt/min The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions. **Net Weight Temperature**

111.5 Ka	-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 = BSP	- = zone 2 X = zone 1	AB = STANDARD



SPECIAL PUMPS

Air operated double diaphragms pumps
with special features:

PHOENIX ATEX certification zone I ATEX
ACCURATE PHOENIX remote control
DRUM PHOENIX to empty drums and tanks
TWIN PHOENIX with double inlet/outlet
POWDER PHOENIX to handle powder trasferring
SUBMERSIBLE PHOENIX ready to be submerged directly into the fluid



















European ATEX directive 2014/34/UE

- **᠍ II -/2 D €x h IIB TI35°C Db X**
- Ex Safety symbol in agreement with DIN 40012 appendix A
- Il 2/2 G surface equipment for use in zones with the occasional presence of combustible gases, fumes or fogs, as well as dust, in the air during the normal
- II -/2 D operation (EN 1127-1 par. 6.3), in the external and internal zone.
- Ex h equipment in protection mode "c", or "b", or "k", in agreement with standard EN 80079-37
- $\textbf{IIB} \ \text{except for the following gases: hydrogen, acetylene, carbon sulphide}$
- **IIIB** except for the following dust: conductive dust
- T4/T135°C temperature class admitted.

PUMPS	MAIN APPLICATIONS		
ALL RANGE	 Petrol-Chemical Industry Flexographic industry Food industry Painting industry Automotive industry 		

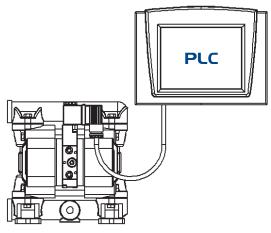
TECHNICAL DATA

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.

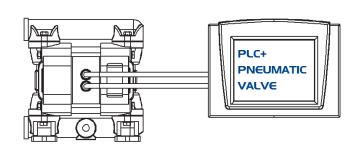


















PUMPS

AP7 AP90 AP18 AP120 AP30 AP170 AP60 AP252

MAIN 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.

Note: PLC and computer system not included.

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.

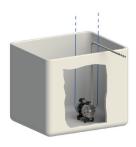
SUBMERSIBLE PHOENIX

PUMPS

ALL RANGE

MAIN APPLICATIONS

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



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.

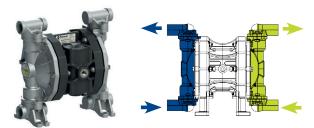
TWIN PHOENIX

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

PP400 - PP700 IN ALU AND SS

MAIN APPLICATIONS

- PAINTING INDUSTRY
- WASTEWATER TECHNOLOGY
- PRINTING INDUSTRY
- FOOD INDUSTRY
- CHEMICAL INDUSTRY



TECHNICAL DATA

POWDER 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.



DAMPER

Pneumatic, automatic pulsation dampeners Realized in:
PP, PVDF, ALUMINIUM, SS AISI 316, POMc
Applicable to all size of pumps.
ATEX ZONE 2 AND ZONE I CERTIFICATION
Available also in FOOD version.





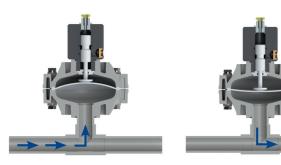
The active pulsation dampener is the most efficient way to remove pressure variations on the discharge of the pump. Fluimac pulsation dampener works actively with compressed air, setting automatically the correct pressure to minimize the pulsations. Pulsation dampeners require minimum maintenance and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

HOW IT WORKS

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.



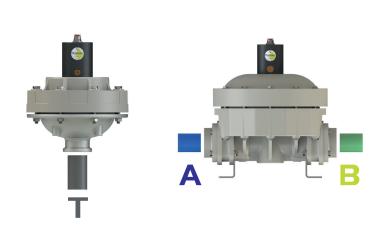
APPLICATION

- METERING/INJECTION/DOSING:
 Equalizes discharge pressure spikes, increasing accuracy;
- FILTER PRESS/INLINE FILTERS: 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



3/4" BSP Fluid connections Air connection

6 mm

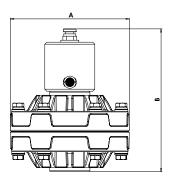
8 bar Max air pressure

Capacity Volume 80 CC ~

(Ex) ATEX ZONE 2 certification as Standard and, on request, **ATEX ZONE 1**.

APPLY TO:

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





POMc



AISI

DIAPHRAGM PORTS

D020

P = PP KC = PVDF+CF O = POMc S = SS

H = HYTREL

HT = HYTREL+PTFE $\mathbf{MT} = \mathsf{SANTOPRENE} + \mathsf{PTFE}$

1 = BSP 2 = FLANGE **5 =** NPT M = SANTOPRENE

T = STANDARD

DAMPER 25

TECHNICAL DATA

8 mm







1" BSP Fluid connections

8 bar Max air pressure

Air connection

200 CC ~ Capacity Volume

(Ex) ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

APPLY TO:

PP



POMc

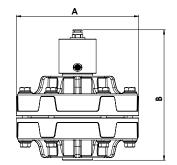




AISI

DIMENSIONS

	PP	PVDF	POMc	AISI
A (mm)	181	181	181	181
B (mm)	195	195	195	182
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



PVDF+CF

D025

P = PP KC = PVDF+CF O = POMc S = SS

HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE **D** = EPDM N = NBR

1 = BSP 2 = FLANGE **5 =** NPT

T = STANDARDAB = SS

DIMENSIONS



1"1/2 BSP Fluid connections

Air connection 10 mm

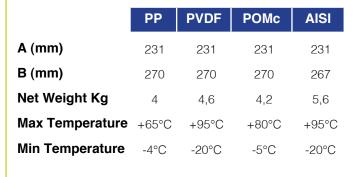
700 CC ~ Capacity Volume

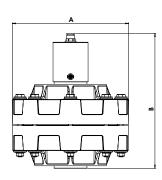
Max air pressure

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

8 bar

APPLY TO:







POMc

AISI

MODEL	CASING	DIADHRAGM	CONNECTIONS	PORTS

D040

P = PP KC = PVDF+CF O = POMc S = SS

HT = HYTREL+PTFE MT = SANTOPRENE+PTFE **H** = HYTREL M = SANTOPRENE

D = EPDM N = NBR

1 = BSP

2 = FLANGE **5 =** NPT

T = STANDARD

DAMPER 50

TECHNICAL DATA

DIMENSIONS



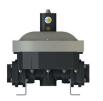
2" BSP Fluid connections Air connection 12 mm 8 bar Max air pressure 2900 CC ~ Capacity Volume

ATEX ZONE 2 certification as Standard and, on request, ATEX ZONE 1.

APPLY TO:

PP





PVDF+CF

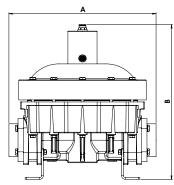


ALU





	PP	PVDF	ALU	AISI
A (mm)	404	404	400	402
B (mm)	425	425	425	408
Net Weight Kg	14	17	14,5	21,6
Max Temperature	+65°C	+95°C	+80°C	+95°C
Min Temperature	-4°C	-20°C	-5°C	-20°C



D050

P = PP KC = PVDF+CF A = ALU S = SS

HT = HYTREL+PTFE MT = SANTOPRENE+PTFE **H =** HYTREL M = SANTOPRENE **D** = EPDM N = NBR

D = EPDM V = VITON N = NBR T = PTFE

1 = BSP 2 = FLANGE **5** = NPT

AB = STANDARD





AIR REGULATION KIT

Adjust and set air pressure and airflow-rate with a filter regulator, pressure gauge and air



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 KIT

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.



DIAPHRAGM FAILURE DETECTION FLUID-GUARD

The Leak Detector provide a signal and the pump can be shut down when diaphragms 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 emptying.



ELECTRONIC BATCH CONTROL

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



SOFT STARTER

It is always recommended to start up an AODD pump slowly.
This to protect the diaphragms.



BASKET STRAINER FILTERS IN PP

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



VALVES FITTINGS AND CONNECTIONS

IN PP. PVC. INOX



GEMINI CONTROL

Electronic Control System for accurate pumps. This system allows you to use AODD pump as dosing system.



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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