

fluimac[®]
pump solution



PHOENIX

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

Made in
Italy

www.fluimac.com

ENGLISH 

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.

FLUIMAC'S CERTIFICATES



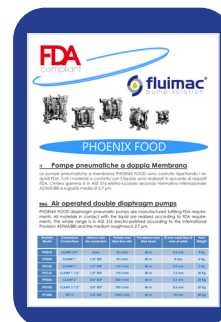
CE CONFORMITY
MARKING



ATEX



ISO 9001
BUREAU VERITAS
Certification



FDA COMPLIANT



EAC CONFORMITY
MARKING

PRODUCTS	RANGE	CERTIFICATES
<p>Air operated double diaphragm pumps have long been recognized as the most flexible pumps of the industry for handling difficult liquids at relatively low pressures and flows. The range of applications is virtually limitless. Flumac AODD pumps come in many sizes and choices 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 pumped.</p>	 <p>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".</p>	
	 <p>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.</p>	
	 <p>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".</p>	
	 <p>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".</p>	
	 <p>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".</p>	
	 <p>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 lt/min to 700 lt/min. Connection from 1/4" to 2".</p>	
	 <p>SUBMERSIBLE PHOENIX Air operated double diaphragm pumps with special features, design to be submerged. Applicable to all size of pumps.</p>	
	 <p>POWDER PHOENIX Air operated double diaphragms pump with special design to handle powder Realized in: ALU, SS. Size available 1 1/2 and 2".</p>	
	 <p>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.</p>	

TECHNICAL FEATURES

Wide Range of sizes and materials suited to variety of conditions and chemicals fluids

Safely "dead head" function, against closed discharge, without pump damage

Dry-run without damaging the pump or system: seal-less design

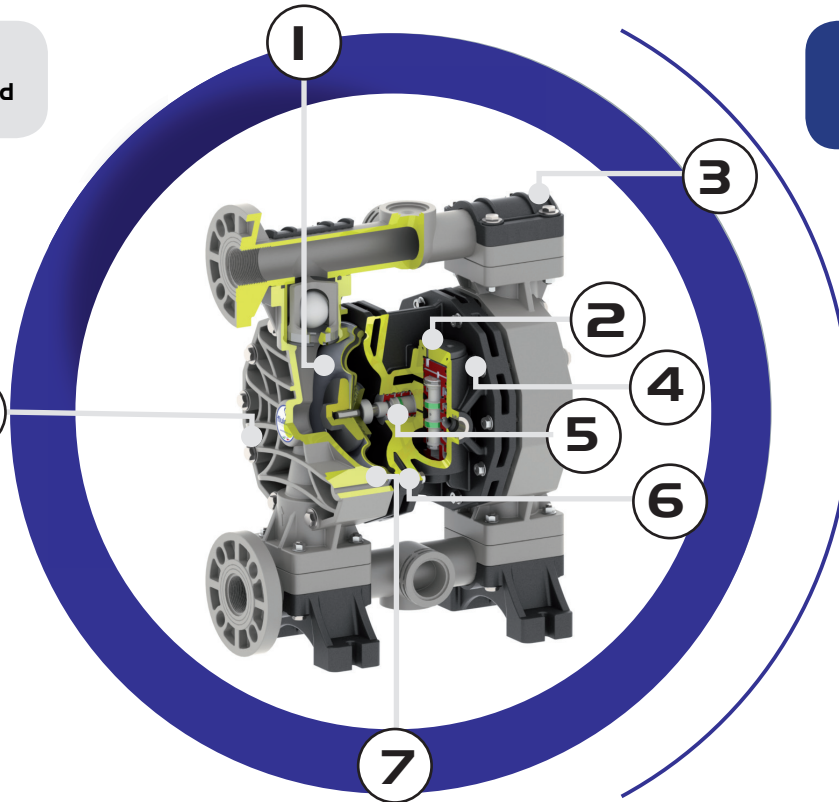
Handled liquids with solids particles: ideal for abrasive and viscous media

Self-priming dry up to 6 meters: works in suction lift applications

Fully submersible: can be submerged completely according to the fluid compatibility

Efficient performance: high flow rates through optimal casings designs

Serviceability: easily and quickly maintained without any special tools



1 2 3 4 5 6 7 8

<p>Long-lasting diaphragm construction ensures a consistent performance and a longer operating life.</p>	<p>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.</p>	<p>All bolted design for an effective sealing to extended leak-proof service.</p>	<p>Solid polypropylene air chambers and plastic air valve for maximum chemical resistance in highly corrosive environments.</p>	<p>Acetalic shuttle ensures long valve life, auto-lubricated material.</p>	<p>Pneumatic exchanger is easily externally accessible for a quick inspection. Special Air system: lube-free, non-stall, non-freeze.</p>	<p>Special pinch clamping, design to minimize wear and increase life of the diaphragm, and provides a uniform seal to avoid leak.</p>	<p>Special exhaust chamber with double silencer to expand diffusion passages, reduce the icing and assure low noise level.</p>
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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



○ Fluid
○ Air

Suction Cycle

1

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

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



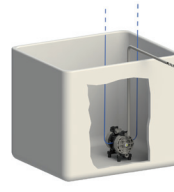
Pump installed above drum or tank

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

P

0160

P-

HT

T

MODEL

SIZE

CASING

DIAPHRAGM

BALL

P
PHOENIX



7 - 7 lt/min

18 - 20 lt/min

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

PF
PHOENIX FOOD



AP
ACCURATE
PHOENIX



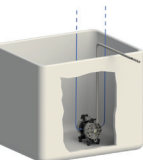
TP
TWIN PHOENIX



PP
POWDER PHOENIX



SP
SUBMERSIBLE
PHOENIX



P
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.



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



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



S
SS AISI 316
High level of corrosion and abrasion resistance.



S
SS - AISI 316 Electropolished
High level of corrosion and abrasion resistance. Phoenix Food.



N
NBR
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



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



H
HYTREL
Good low temperature properties. Good abrasion resistance.



M
SANTOPRENE
solutions and dilute acids.



N
NBR
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



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



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

P

V

1

-

AB

BALL SEAT

GASKET

CONNECTIONS

ATEX ZONE CERTIFICATION

PORTS



P
POLYPROPYLENE
Wide chemical compatibility. General purpose.



K
PVDF
Strong chemical resistance to acids. High temperature resistance.



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



S
SS
High level of corrosion and abrasion resistance.



Z
PE
With high molecular weight: High level of abrasion resistance



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



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



N
NBR
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.



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

1
BSP THREADED

2
FLANGED

3
TRI-CLAMP
(PHOENIX FOOD)

5
NPT THREADED

6 - DIN 11851/3
(PHOENIX FOOD)



-
ATEX ZONE 2

II 3/3 G Ex h IIB T4 Gc

II -/3 D Ex h IIIB T135°C Dc X

X
ATEX ZONE 1

II 2/2 G Ex h IIB T4 Gb

II -/2 D Ex h IIIB T135°C Db X

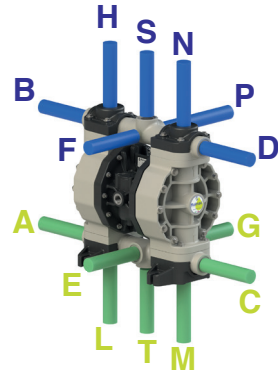


TABLE CODE

PUMP SELECTION

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

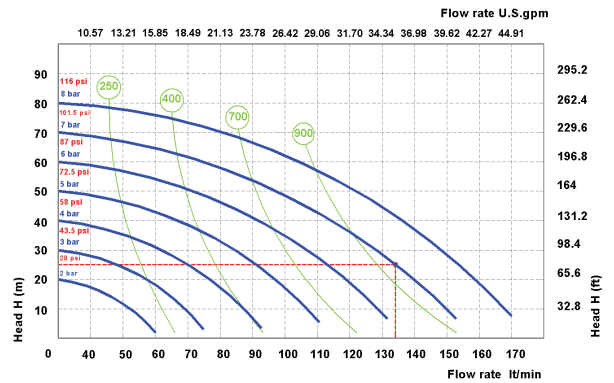
Considering these parameters, an optimal pump size is selected when the intersection of the intended installation “pressure vs. flow rate” is near the middle section of the curves.

USING PERFORMANCE CURVES

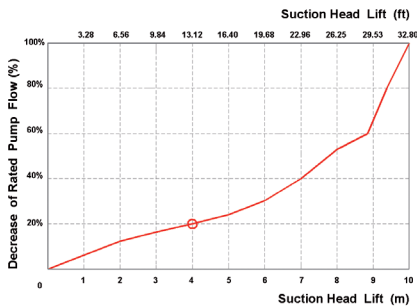
To determine compressed air requirements and proper size for a FLUIMAC AODD pump, two elements of information are required:

- 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.

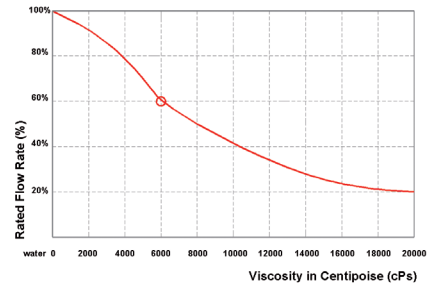


SPECIFIED SUCTION LIFT



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	LOBE	GEAR	SCREW	PERISTALTIC	PISTON
Variable Flow & Head Control	✓	✓	✓	✓	!	✓	✓
Deadhead Safely	✓	!	!	!	!	!	!
Dry-Running	✓	✗	✗	✗	✗	✓	✗
Dry Self-Priming	✓	✗	✗	✓	✗	✓	!
No Mechanical Alignment	✓	✗	✗	✗	✗	✗	✗
No Electrical Installation	✓	✗	✗	✗	✗	✗	✗
Portability	✓	✓	!	!	!	✓	!
Submersible	✓	!	✗	✗	✗	✗	!
Sealless	✓	!	!	!	!	!	!
Cavitation Tolerance	✓	✗	!	!	✓	✓	!
Low Shear & Degradation	✓	✗	✓	✓	!	✓	!

✓ = Suitable ! = Limitations ✗ = Not Recommended



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pump solution



PHOENIX

Realized in:

PP, PVDF, ALUMINIUM, SS AISI 316, POMc

Flow-rate from 7 lt/min to 1.000 lt/min

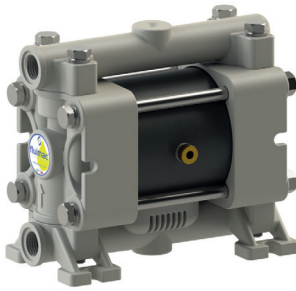
Connection from 1/4" to 3".

ATEX certification for zone 2

 II 3/3 G Ex h IIB T4 Gc

 II -/3 D Ex h IIB T135°C Dc X

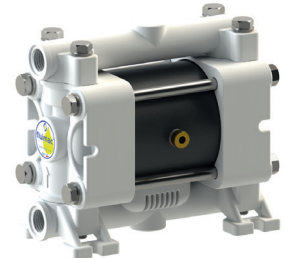




PP



PVDF+CF



POMc

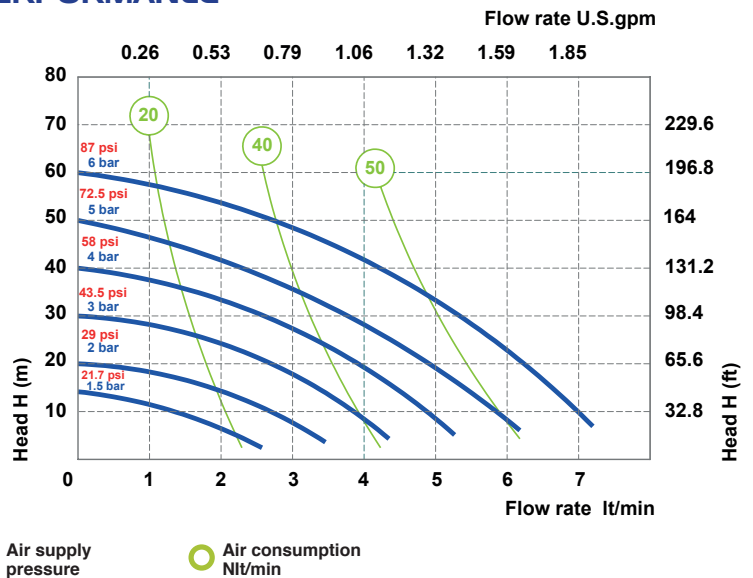
TECHNICAL DATA

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 ~

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

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

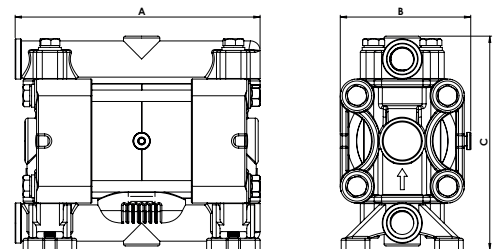
PERFORMANCE



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

	A	B	C	Net Weight	Temperature
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



COMPOSITION

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

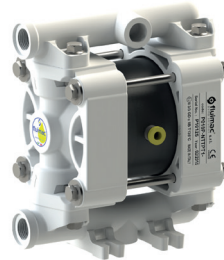
P 18



PP



PVDF+CF



POMc



SS

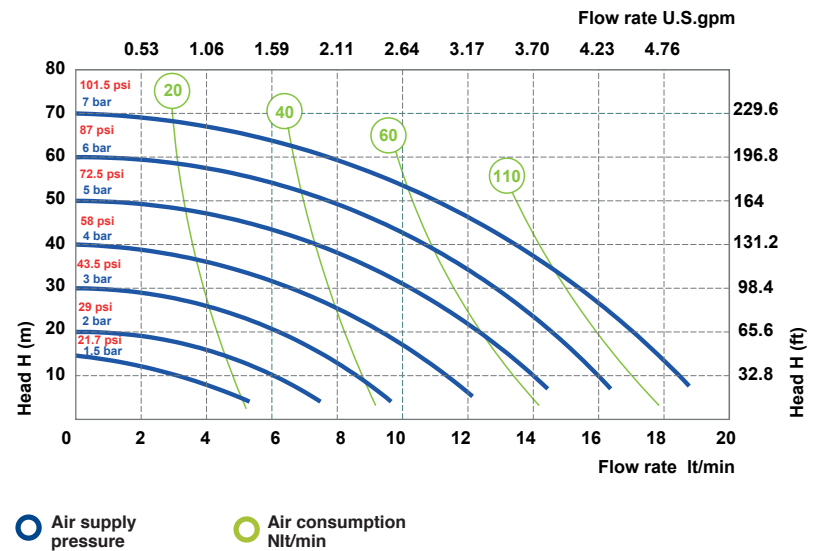
TECHNICAL DATA

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 ~

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

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

PERFORMANCE



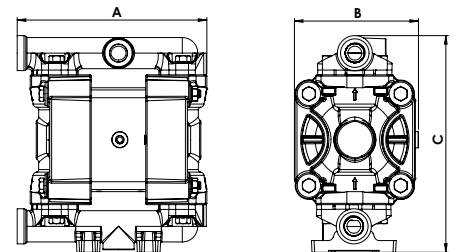
○ Air supply pressure

○ Air consumption Nlt/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

	A	B	C	Net Weight	Temperature
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
SS	148 mm	92 mm	152 mm	2,3 Kg	- 20°C + 95°C



COMPOSITION

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

P 30



PP



PVDF+CF



ALU



SS

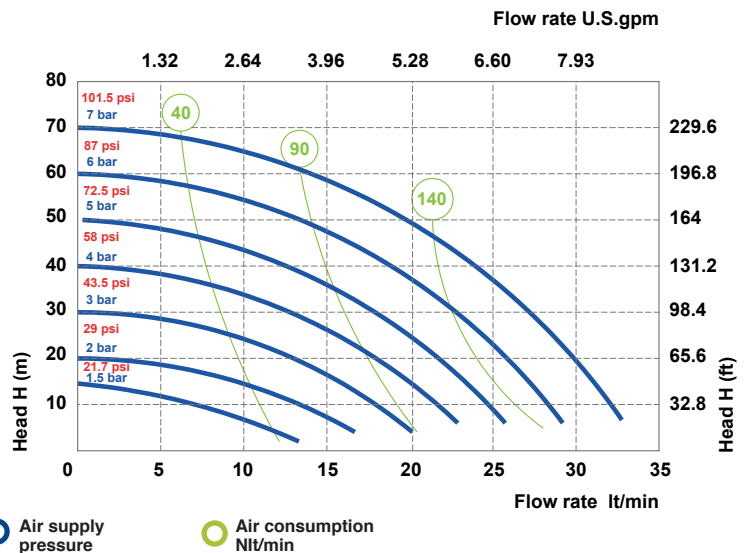
TECHNICAL DATA

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 ~

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

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

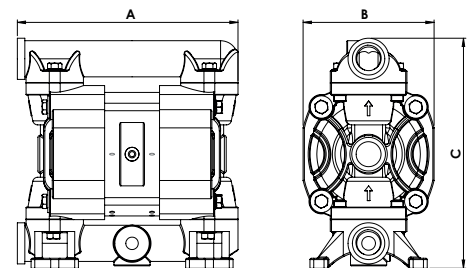
PERFORMANCE



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

	A	B	C	Net Weight	Temperature
PP	177 mm	105 mm	185 mm	1,8 Kg	- 4°C + 65°C
PVDF	177 mm	105 mm	185 mm	2,3 Kg	- 20°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



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0030	P = PP	HT = HYTREL+PTFE	T = PTFE	P = PP	D = EPDM	1 = BSP	- = zone 2	AB = STANDARD
	KC = PVDF+CF	MT = SANTOPRENE+PTFE	S = SS	K = PVDF	V = VITON	2 = FLANGED		
	S = SS	H = HYTREL	D = EPDM	S = SS	N = NBR	5 = NPT		
	A = ALU	M = SANTOPRENE	N = NBR	Z = PE-UHMWE	T = PTFE			

P 55



PP



PVDF+CF



ALU



SS

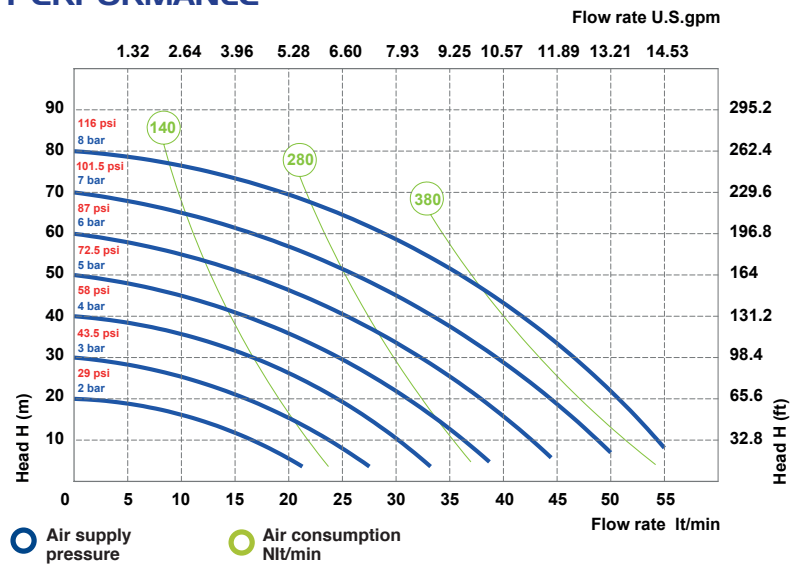
TECHNICAL DATA

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:	20.000 cps
Displacement per Stroke:	140 CC ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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.

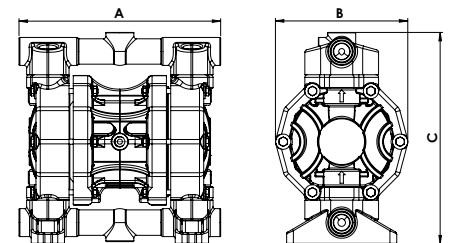
PERFORMANCE



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

	A	B	C	Net Weight	Temperature
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	- 20°C + 95°C
SS	234 mm	156 mm	268 mm	6,8 Kg	- 20°C + 95°C



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0055	P = PP	HT = HYTREL+PTFE	T = PTFE	P = PP	D = EPDM	1 = BSP	- = zone 2	AB = STANDARD
	KC = PVDF+CF	MT = SANTOPRENE+PTFE	S = SS	K = PVDF	V = VITON	2 = FLANGED		
	S = SS	H = HYTREL	D = EPDM	S = SS	N = NBR	5 = NPT		
	A = ALU	M = SANTOPRENE	N = NBR	Z = PE-UHMWE	T = PTFE			

P 60



PP



PVDF+CF



ALU



SS

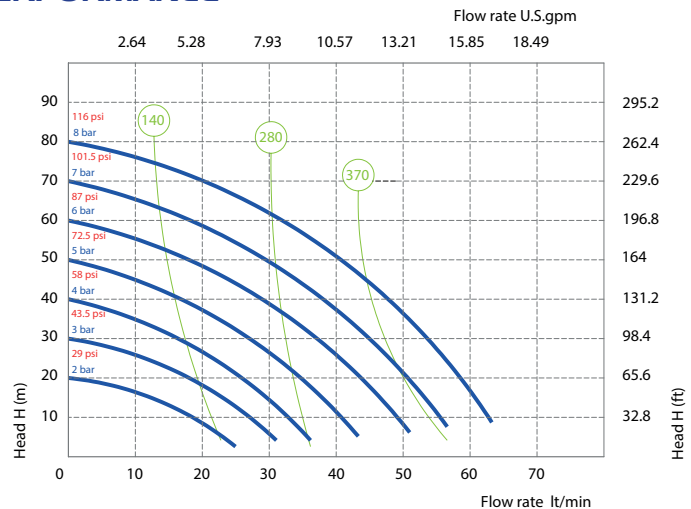
TECHNICAL DATA

Fluid connections	1/2" BSP
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 ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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.

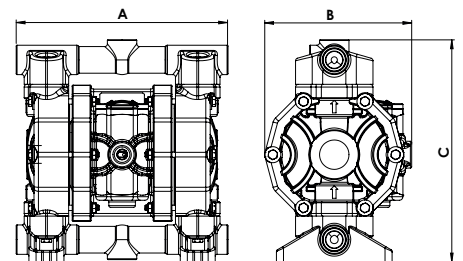
PERFORMANCE



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

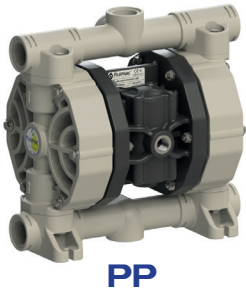
	A	B	C	Net Weight	Temperature
PP	238 mm	165 mm	249 mm	4,3 Kg	- 4°C + 65°C
PVDF	238 mm	165 mm	249 mm	5,3 Kg	- 20°C + 95°C
ALU	234 mm	165 mm	245 mm	4,3 Kg	- 20°C + 95°C
SS	234 mm	165 mm	268 mm	7,3 Kg	- 20°C + 95°C



COMPOSITION

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

P 90



PP



PVDF+CF



ALU (P 100)



SS (P 100)

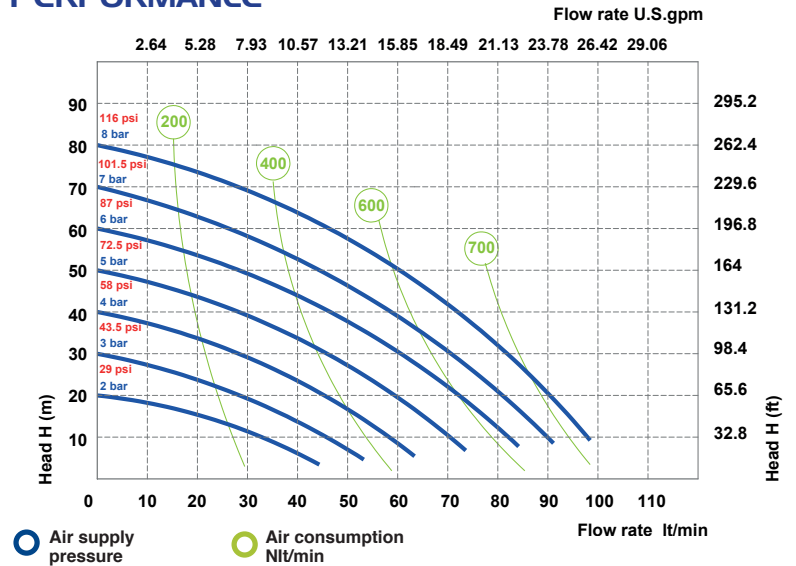
TECHNICAL DATA

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:	15.000 cps
Displacement per Stroke:	200 CC ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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.

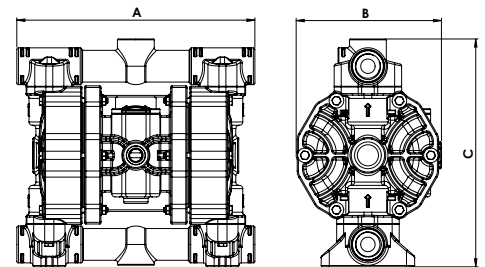
PERFORMANCE



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

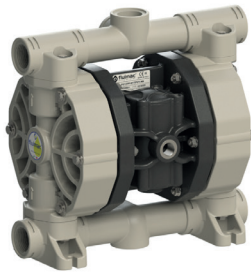
	A	B	C	Net Weight	Temperature
PP	293 mm	176 mm	280 mm	5,1 Kg	- 4°C + 65°C
PVDF	293 mm	176 mm	280 mm	6,6 Kg	- 20°C + 95°C
ALU	265 mm	178 mm	245 mm	5,6 Kg	- 20°C + 95°C
SS	247 mm	178 mm	251 mm	7,6 Kg	- 20°C + 95°C



COMPOSITION

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

P 120



PP



PVDF+CF



SS

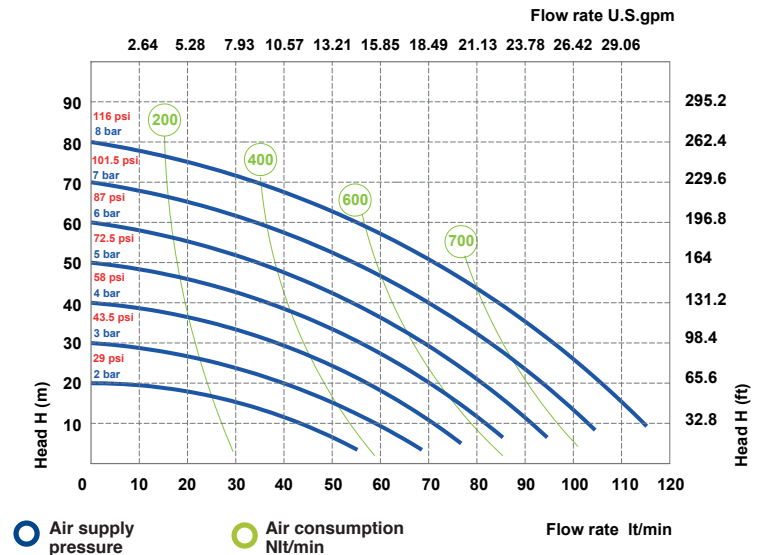
TECHNICAL DATA

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 ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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.

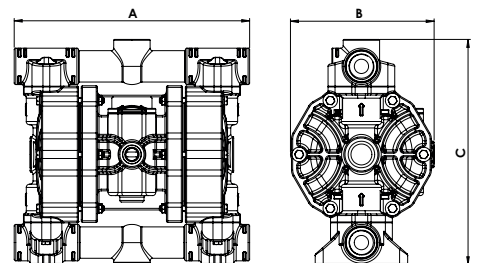
PERFORMANCE



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

	A	B	C	Net Weight	Temperature
PP	293 mm	178 mm	280 mm	5,6 Kg	- 4°C + 65°C
PVDF	293 mm	178 mm	280 mm	7,6 Kg	- 20°C + 95°C
SS	258 mm	177 mm	295 mm	9,6 Kg	- 20°C + 95°C



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0120	P = PP	HT = HYTREL+PTFE	T = PTFE	P = PP	D = EPDM	1 = BSP		
	KC = PVDF+CF	MT = SANTOPRENE+PTFE	S = SS	K = PVDF	V = VITON	2 = FLANGED	- = zone 2	AB = STANDARD
	S = SS	H = HYTREL	D = EPDM	S = SS	N = NBR	5 = NPT		
		M = SANTOPRENE	N = NBR	Z = PE-UHMWE	T = PTFE			
		D = EPDM						
		N = NBR						

P 170



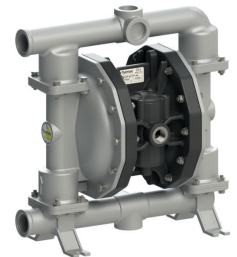
PP



PVDF+CF



ALU (P 160)



SS

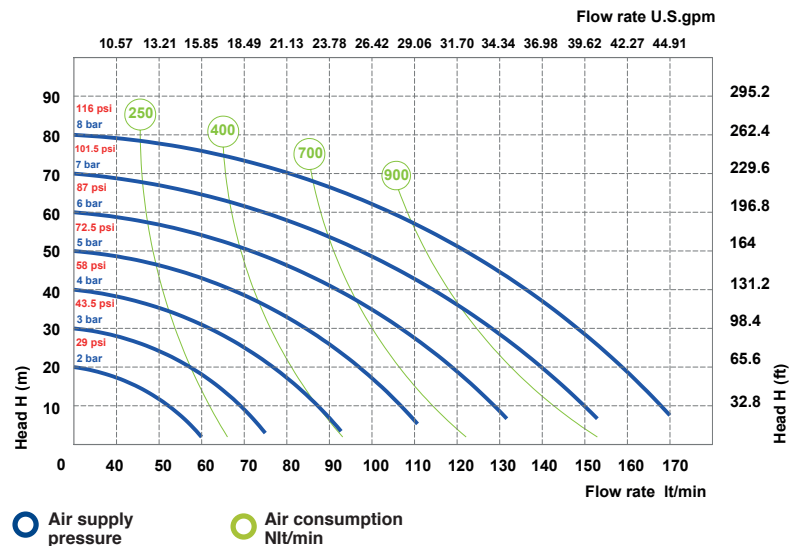
TECHNICAL DATA

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 ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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

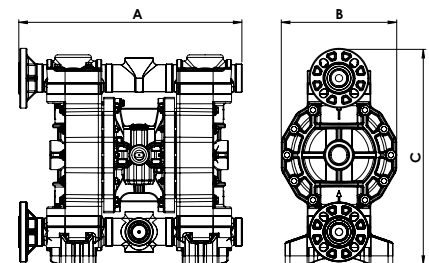


○ Air supply pressure ○ Air consumption Nlt/min

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

	A	B	C	Net Weight	Temperature
PP	430 mm	222 mm	416 mm	14,2 Kg	- 4°C + 65°C
PVDF	430 mm	222 mm	416 mm	16,2 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



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0170	P = PP	HT = HYTREL+PTFE	T = PTFE	P = PP	D = EPDM	1 = BSP		
P0160	KC = PVDF+CF	MT = SANTOPRENE+PTFE	S = SS	K = PVDF	V = VITON	2 = FLANGED	- = zone 2	AB = STANDARD
	S = SS	H = HYTREL	D = EPDM	S = SS	N = NBR	5 = NPT		
	A = ALU	M = SANTOPRENE	N = NBR	Z = PE-UHMWE	T = PTFE			
		D = EPDM		A = ALU				
		N = NBR						

P 252



PP



PVDF+CF



ALU (P 250)



SS

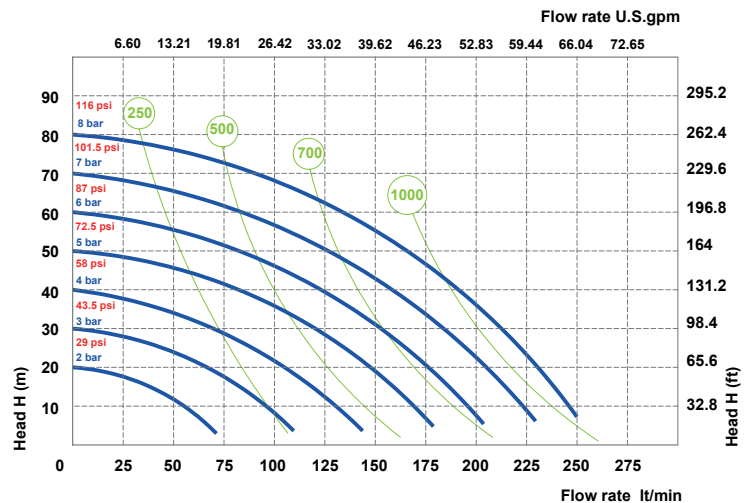
TECHNICAL DATA

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 ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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

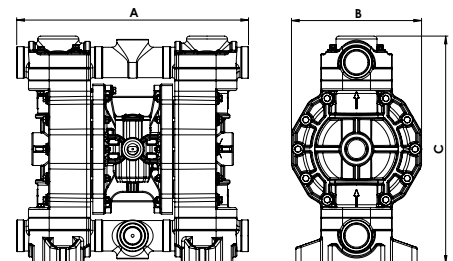


○ Air supply pressure ○ Air consumption Nlt/min

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

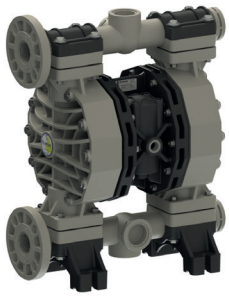
	A	B	C	Net Weight	Temperature
PP	396 mm	222 mm	388 mm	14,2 Kg	- 4°C + 65°C
PVDF	396 mm	222 mm	388 mm	16,2 Kg	- 20°C + 95°C
ALU	370 mm	222 mm	364 mm	13,2 Kg	- 20°C + 95°C
SS	357 mm	222 mm	374 mm	17,2 Kg	- 20°C + 95°C



COMPOSITION

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

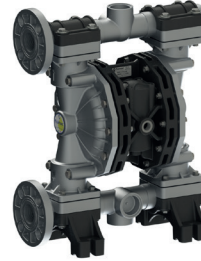
P 400



PP



PVDF+CF



ALU



SS

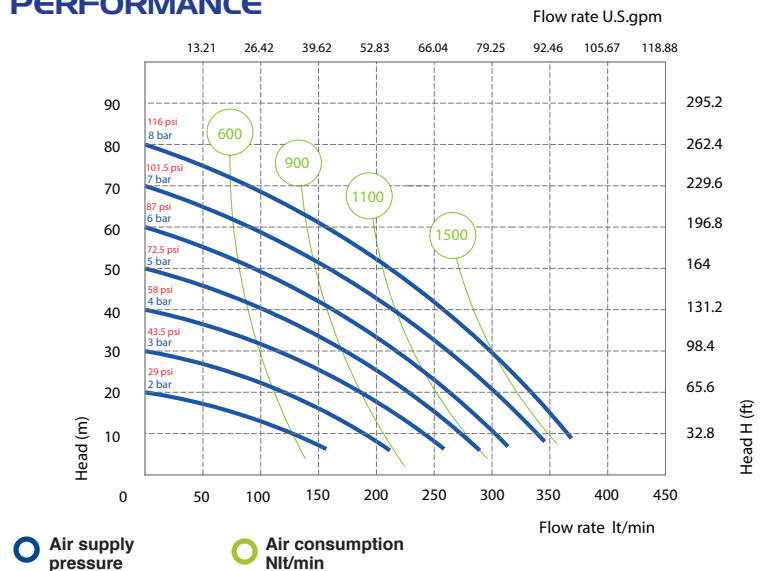
TECHNICAL DATA

Fluid connections	1"1/2 BSP - DN 40
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 ~

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

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

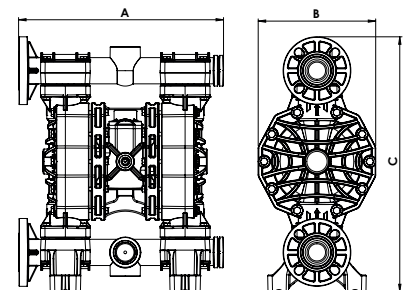
PERFORMANCE



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

	A	B	C	Net Weight	Temperature
PP	454 mm	260 mm	564 mm	18,2 Kg	- 4°C + 65°C
PVDF	454 mm	260 mm	564 mm	22,2 Kg	- 20°C + 95°C
ALU	445 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



COMPOSITION

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

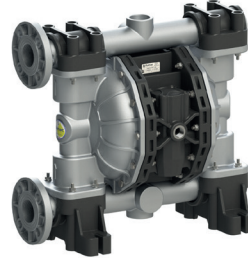
P 700



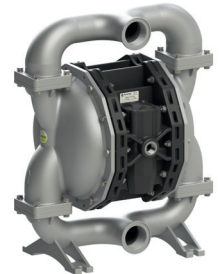
PP



PVDF+CF



ALU



SS

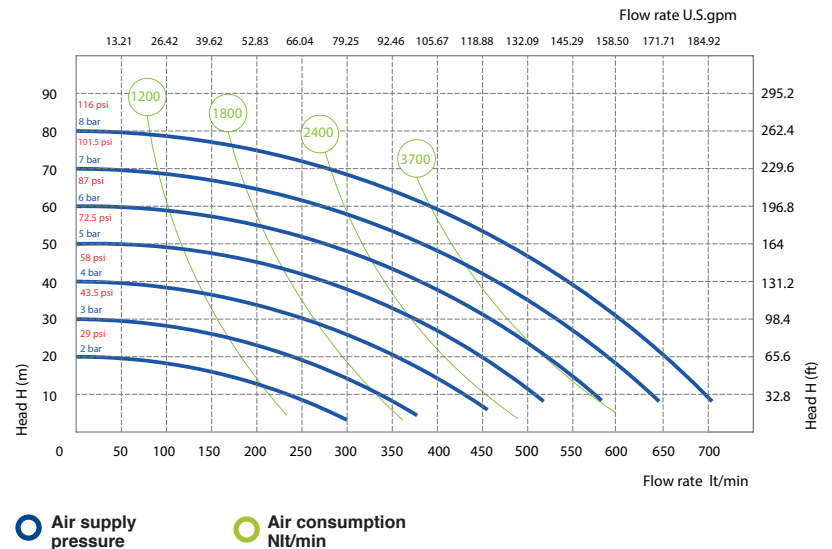
TECHNICAL DATA

Fluid connections	2" BSP - DN 50
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	9,8 m
Max Solid passing	8,5 mm
Noise level:	78 dB
Max Viscosity:	50.000 cps
Displacement per Stroke:	3050 CC ~

Ex II 3/3 G Ex h IIB T4 Gc
Ex 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.

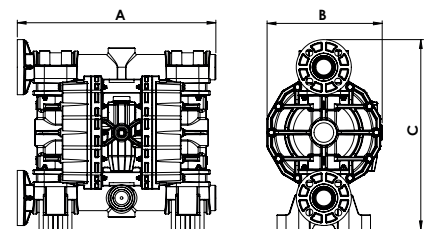
PERFORMANCE



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

	A	B	C	Net Weight	Temperature
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	- 20°C + 95°C
SS	487 mm	345 mm	599 mm	51 Kg	- 20°C + 95°C



COMPOSITION

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

P 1000



PP



PVDF



ALU



SS

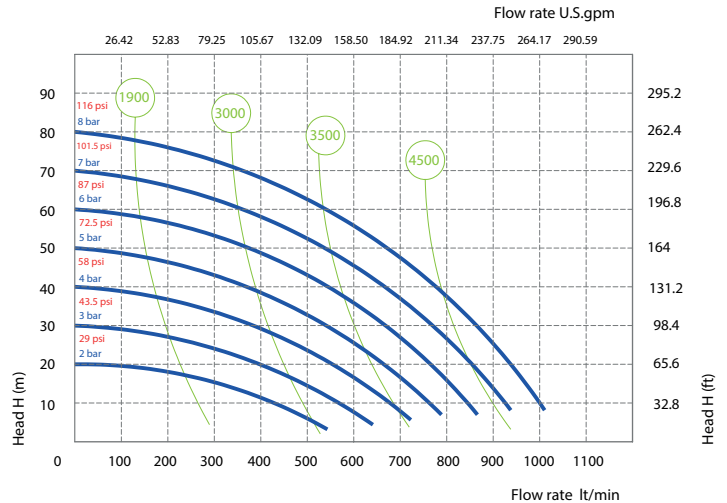
TECHNICAL DATA

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

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

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

PERFORMANCE

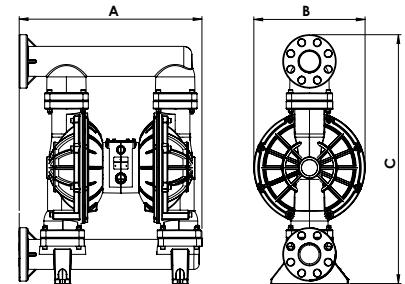


● Air supply pressure ● Air consumption Nl/min

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

	A	B	C	Net Weight	Temperature
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	- 20°C + 95°C
SS	570 mm	420 mm	838 mm	111,5 Kg	- 20°C + 95°C



COMPOSITION

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