

in the world

Pumps

filing pump solution





Fluimac was astablished in 2012 Varese area in Italy. This young, dynamic and innovative company is specialized in providing pump solutions using their newly developed designs of pump product ranges.

With their large knowledge, experience and expertise, in the Italian and International markets, Fluimac is well equipped to offer not only reliable, high quality products but also a staff infrastructure providing its customers with the benefits of total flexibility, coupled with fast service, speedy deliveries and a superb after sales service.

The **Fluimac** policy is based on excellent customer service and a network of efficient and knowledgeable distributors who ensure the customer to receive the best possible attention at all times. The company is continually researching new solutions and is dedicated to the constant improvement of their product ranges. Highly trained personnel provide our customers with the guarantees of guality, efficiency and a high degree of technical ability and support.



The grouping and organisation of **Fluimac**, assembly, pump testing and warehousing facilities, along with the rapid stock check process system in place, allows the company to offer an outstanding, fast delivery service for those customers who find themselves in an emergency situation.

We are proud of our, high technology, automated test facility which allows us to test each and every pump hydrostatically as well as for suction condition, discharge pressure and flow rate tests.

Our technical and R&D departements are engaged constantly in finding practical and high technological solutions to ensure continuous improvement to our product ranges. The result is that the Italian genius and excellence of Fluimac keeps the company in the forefront and cutting edge of modern day pump innovation.

Our experience, serving to **you**!



Fluimac's subsidiary in Singapore



Our Singapore branch was established to strengthen our presence in the fast growing Asian market. Our office takes care of the sales and aftersales, and strongly supports the extensive network of distributors we have in the region. With ready stock in Asia, we have fast delivery capabilities to the region.

Fluimac's Certificates



Our quality, serving to you!



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. Fluimac 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.

Phoenix C E 😔 @ Eff	Air operated double diaphragm pumps Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 8 lt/min to 1.000 lt/min Connection from ¼" to 3".	AUTOMOTIVE	AGRICULTURE
Phoenix Food C € 😔 稡 ମ ල 🕅	Air operated double diaphragms pumps Realized in: SS AISI 316 electro-polished and PP food grade (P7) Flow-rate from 8lt/min to 1.000 lt/min Tri-Clamp Connection.	CAR WASHING	CHEMICAL
Phoenix Atex C € 😔 @ Eff	Air operated double diaphragms pumps, ATEX certified for zone 1. Realized in: PP+CF, PVDF+CF, ALUMINIUM, SS AISI 316, POMc+CF Flow-rate from 8lt/min to 1.000 lt/min Connection from 1⁄4" to 3".	CERAMIC	
Accurate Phoenix C € 😔 A 冗 ፻፸ ি⊞	Double diaphragm pumps with remote control Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 8 lt/min to 700 lt/min Connection from ¼" to 2".		NAVAL AND PETROCHEMICAL
Drum Phoenix C € 😔 隆 ∏ ፻ ፻ ি ∰	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 8 lt/min to 160 lt/min Connection from ¼" to 1".	PHARMACEUTICAL	
Twin Phoenix C € 😔 ፻ጮ 冗" ॡ मि	Air operated double diaphragms pumps with special Features with double inlet/outlet Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 8 lt/min to 700 lt/min Connection from ¼" to 2".	AND COSMETIC	
Damper C € 😔 隆 冗ï 💽 🕅	Pneumatic, automatic pulsation dampeners. Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Applicable to all size of pumps. Available also in ATEX or FOOD version.	OIL & GAS	

Markets & Applications

Fluimac pumps are some of the most versatile pumps on the market. They can be used in a variety of installations in numerous applications







Features & Benefits

Variable flow and head pressures, easy to adjust, without sophisticated controls.	100% wet tested after final assembly: deadheading, priming, and sealing.	ATEX certifications in all versions: Conductive plastic pumps available.	Portable and compact for multi-location use, optionally with trolley.	All plastic air system: strong and corrosion- resistant in harsh environments.	Handled liquids with solids particles: ideal for abrasive and viscous media.
Special Air system: lube-free, non-stall, non-freeze.	Wide Range of sizes and materials suited to variety of conditions and chemicals fluids.	Dry-run without damaging the pump or system: seal-less design.	Self-priming dry up to 6 meters: works in suction lift applications.	Efficient performance: high flow rates through optimal casings designs.	Special air exhaust: Designed to operate at low noise levels.
Efficient air distribution design: low air consumption.	Safely "dead head" function, against closed discharge, without pump damage.	Fully submersible: can be submerged completely according to the fluid compatibility.	Can customize to specific applications: Multiple porting options available along with interface options.	All Bolted Construction: it provides maximum leak resistance and safety.	Serviceability: easily maintained and quickly without any special tools.

AODD vs. Others

PUMP TYPE	AODD	CENTRIFUGAL	LOBE	GEAR	SCREW	PERISTALTIC	PISTON
	\bigcirc	S		ŐĞ	Notice .	P	R
Variable Flow & Head Control	√	√	√	√	1	1	√
Deadhead Safely	√	√	1	1	1	1	1
Dry-Running	√	X	X	X	X	X	X
Dry Self-Priming	√	X	X	√	X	√	1
No Mechanical Alignment	√	X	X	X	X	X	X
No Electrical Installation	√	X	X	X	X	X	X
Portability	√	√	1	1	1	√	1
Submersible	√	1	X	X	X	X	1
Sealless	√	1	1	1	1	1	1.0
Cavitation Tolerance	√	X	1	1	√	1	1.0
Low Shear & Degradation	√	X	√	√	1	1	1

Technical Features

Un-balanced pilot spool, precisely controls positioning of the main power spool to eliminate stalling and increase efficiency

Long-lasting diaphragm construction ensures a consistent performance and a longer operating life

Special exhaust chamber with double silencer to expand diffusion passages, reduce the icing and assure low noise level

Special pinch clamping, design to minimize wear e increase life of the diaphragm, and provides a uniform seal to avoid leak

> Pneumatic exchanger is easily externally accessible for a quick inspection



All bolted design for an effective sealing to extended leak-proof service

Solid polypropylene air chambers and plastic air valve for maximum chemical resistance in highly corrosive environments

Acetalic shuttle ensures long valve life, auto-lubricated material

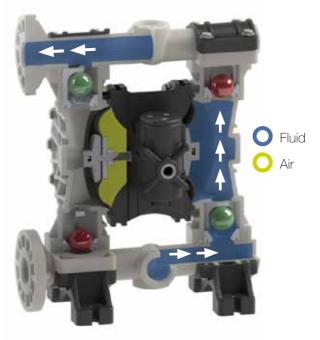


Pump Operation



1. 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.



2. 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



Self priming

above head

(pump initially work

with dry column

without problem)

(negative

suction)

Pump installed below head (positive suction)

(when it is necessarv to empty completely the container)



Pump pump installed installed above drum or tank

> (with special featuring pump)



Submerged installed on pump hopper for

Pump

liquid

Air pressure

pump size)

Suction tube has to be bigger than

high viscosity

(it is necessary (hopper's height to check helps the pump the chemical to treat the fluid. compatibility has to be high,

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

fixing



Suspended Pump installed on a mobile unit

> (with a trolley or cart when pump must be often moved)

How to read the code

P 0160 P- HT T P BALL SEATS MATERIAL BALLS MATERIAL MODEL OF PUMP CASING MATERIAL SIZE DIAPHRAGMS GASKET MATERIAL CONNECTIONS ATEX ZONE CERTIFICATION 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

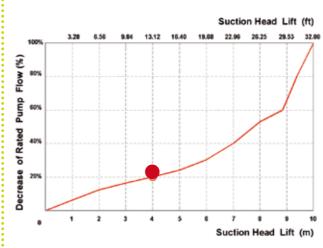
2 Total Delivery Head

As an example, consider a P160 pump performance curve, pumping about 135 l/min at 25m.

Point A on the performance curve is where the desired Flow Rate and Total Delivery Head points intersect. This point determines compressed air requirements for the particular pump.

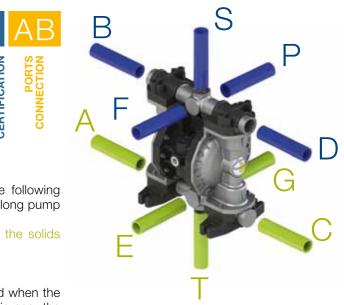
At performance point A, the pump will require approximately 7 bar air inlet pressure. To arrive at this figure, follow the solid blue curve to the left to read the air pressure rating in BAR. By looking at the nearest green curve, it is determined the pump will require approximately 900 nl/min (Normal Liter per minute) of air consumption.

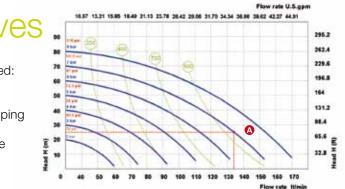
Specified Suction Lift



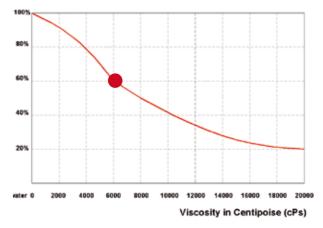
With a suction lift of 4 m, pump rate decreases by approximately 20%. Valid for pumps 3/4" and larger; data varies with pump configuration.







Viscous Liquids Performance Data



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

Technical data are approximate and not binding for the manufacturer who reserves the right to change them without notice at any time.



Materials PUMP CASING

Polypropylene



Polypropylene: Wide chemical compatibility. General purpose.

Polypropylene+CF



Conductive Polypropylene: Wide chemical compatibility. General purpose. Groundable.

PVDF+CF

POMc

Aluminium

SS - AISI 316



Conductive PVDF: Strong chemical resistance to acids. High temperature resistance. Groundable.



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



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.

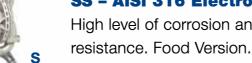


Stainless Steel AISI 316: High level of corrosion and abrasion resistance.



SS – AISI 316 Electropolished:

SS – AISI 316 Electropolished



High level of corrosion and abrasion

Materials



Diaphragm

NBR: Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals. **EPDM:** OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance. PTFE: Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance. **HYTREL:** Good low temperature properties. Good abrasion resistance. **SANTOPRENE:** solutions and dilute acids.



NBR: Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals. **EPDM:** OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance. PTFE: Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance. SS: High level of corrosion and abrasion resistance. Good for viscous fluids.



Seat

POLYPROPYLENE: Wide chemical compatibility. General purpose. **PVDF:** Strong chemical resistance to acids. High temperature resistance. ALUMINUM: Wide range of solvent and hydrocarbons. Good level of abrasion resistance. SS: High level of corrosion and abrasion resistance. **PE:** with high molecular weight: High level of abrasion resistance

Orings

VITON: High heat resistance. Good resistance to aggressive chemicals and hydrocarbons. NBR: Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals **EPDM:** OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance. PTFE: Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.





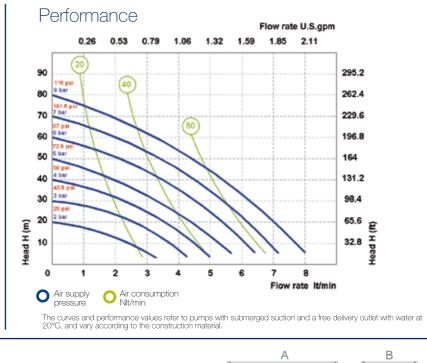






Technical data

Fluid connections:	1/4" BSP
Air connection:	4 mm
Max flow-rate:	8 lt/min
Max air pressure:	8 bar
Max delivery head:	80 m
Max Suction Lift Dry:	3 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	2,5 mm
Noise level:	62 dB
Max Viscosity:	6.000 cps



😔 EX II 3/3 GD c IIB T 135°C

Dimensions PP PVDF POMc 129 A (mm) 129 129 68 68 68 B (mm) 112 112 C (mm) 112 Weight kg 0,7 0,9 0,9 MAX Temperature 65°C 95°C 80°C MIN Temperature -4°C -20°C -5°C

Composition

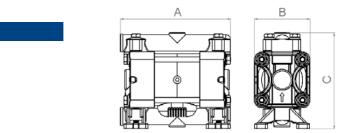
MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0007	P = PP KC = PVDF+CF O = POMc		: S = SS	P = PP K = PVDF O = POMc	:	1 = BSP 5 = NPT	- = zone 2	AB = STANDARD



Air operated double diaphragms pumps Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 8lt/min to 1.000 lt/min Connection from ¼" to 3". ATEX certification for zone 2 EX II 3/3 GD c IIB T135°C









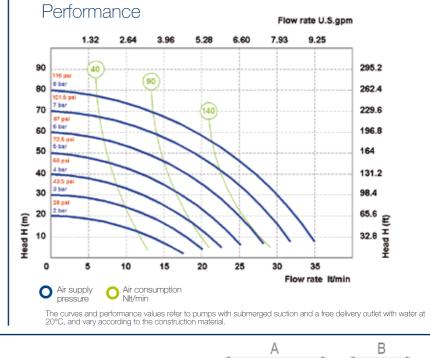








Technical data	
Fluid connections:	1/2" BSP
Air connection:	6 mm
Max flow-rate:	35 lt/min
Max air pressure:	8 bar
Max delivery head:	80 m
Max Suction Lift Dry:	5 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	3,5 mm
Noise level:	65 dB
Max Viscosity:	15.000 cps



Fluid connections:	1
Air connection:	6
Max flow-rate:	3
Max air pressure:	8
Max delivery head:	8
Max Suction Lift Dry:	5
Max Suction Lift Wet:	9
Max Solid passing:	3
Noise level:	6
Max Viscosity:	1

😔 EX II 3/3	GD c IIB T 135°C
Dimensio	ns

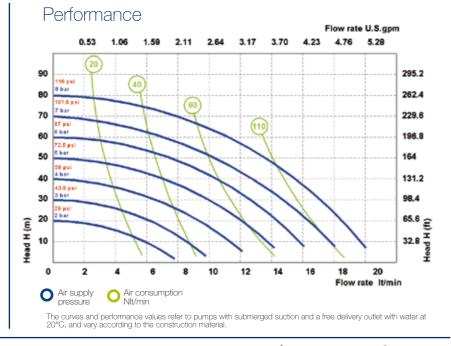
	PP	PVDF	POMc			
A (mm)	177	177	177			
B (mm)	105	105	105			
C (mm)	183	183	183			
Weight kg	1,4	1,7	1,4			
MAX Temperature	65°C	95°C	80°C			
MIN Temperature	-4°C	-20°C	-5°C			

Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0030	KC = PVDF+CF	:	S = SS D = FPDM	K = PVDF O = POMc S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD

Technical data

Fluid connections:	3/8" BSP
Air connection:	6 mm
Max flow-rate:	20 lt/min
Max air pressure:	8 bar
Max delivery head:	80 m
Max Suction Lift Dry:	6 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	3 mm
Noise level:	65 dB
Max viscosity:	12.000 cps



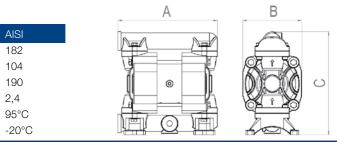
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€ EX II 3/3 GD c IIB T 135°C

Dimensions				
	PP	PVDF	POMc	AISI 316
A (mm)	146	146	146	148
B (mm)	96	96	96	92
C (mm)	164	164	164	153
Weight kg	1,1	1,4	1,1	2,1
MAX Temperature	65°C	95°C	80°C	95°C
MIN Temperature	-4°C	-20°C	-5°C	-20°C

MODE	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0018	KC = PVDF+CF	HT = HYTREL+PTFE MT = Santoprene+Ptfe H = Hytrel M = Santoprene	S = SS D = EPDM N = NBB	K = PVDF O = POMc S = SS	$\mathbf{I} = \mathbf{N}\mathbf{B}\mathbf{R}$	1 = BSP 2 = Flanged 5 = NPT	• = zone 2	AB = STANDARD





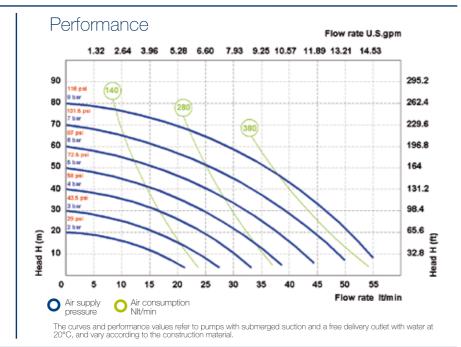




AISI 316

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:	6 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	3,5 mm
Noise level:	68 dB
Max Viscosity:	20.000 cps



Dimensions

€ EX II 3/3 GD c IIB T 135°C

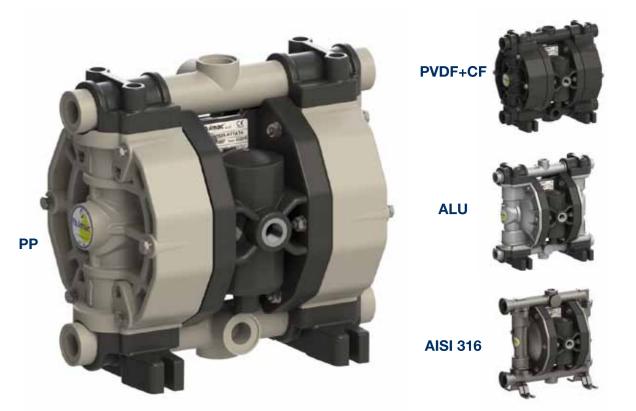
DITIENSIONS						
	PP	PVDF	ALU	AISI		
A (mm)	222	222	225	225		
B (mm)	156	156	156	156		
C (mm)	233	233	230	230		
Weight kg	4	4,5	5	6		
MAX Temperature	65°C	95°C	90°C	95°C		
MIN Temperature	-4°C	-20°C	-20°C	-20°C		

R

Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0050	P = PP KC = PVDF+CF A = ALU S = SS	M = SANTOPRENE	S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE		1 = BSP 2 = Flanged 5 = NPT	- = zone 2	AB = STANDARD





Technical data	
Fluid connections:	1/2" BSP
Air connection:	3/8" BSP
Max flow-rate:	70 lt/min
Max air pressure:	8 bar
Max delivery head:	80 m
Max Suction Lift Dry:	6 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	3,5 mm
Noise level:	72 dB
Max Viscosity:	25.000 cps

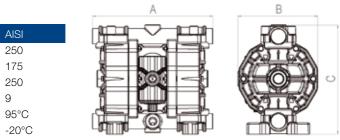


😓 EX II 3/3 GD c IIB T 135°C

Dimensions

	PP	PVDF	ALU	
A (mm)	265	265	265	
B (mm)	175	175	175	
C (mm)	245	245	245	
Weight kg	6,5	7	7	
MAX Temperature	65°C	95°C	90°C	
MIN Temperature	-4°C	-20°C	-20°C	

MODE	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0065		M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = Flanged 5 = NPT	- = zone 2	AB = STANDARD



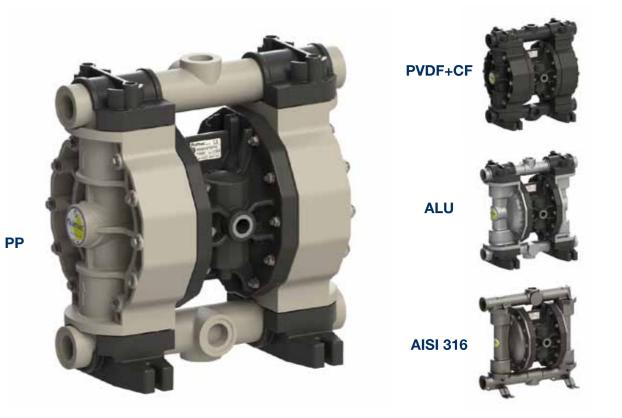






B





Technical data

Fluid connections:	3/4" BSP
Air connection:	3/8" BSP
Max flow-rate:	110 lt/min
Max air pressure:	8 bar
Max delivery head:	80 m
Max Suction Lift Dry:	6 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	3,5 mm
Noise level:	72 dB
Max Viscosity:	25.000 cps



Dimonsions

€ EX II 3/3 GD c IIB T 135°C

Dimensions						
	PP	PVDF	ALU	AISI		
A (mm)	265	265	265	250		
B (mm)	175	175	175	175		
C (mm)	245	245	245	250		
Weight kg	6,5	7	7	9		
MAX Temperature	65°C	95°C	90°C	95°C		
MIN Temperature	-4°C	-20°C	-20°C	-20°C		

Composition

MODE	L CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P010	P = PP KC = PVDF+CF A = ALU S = SS	M = SANTOPRENE	S = SS D = EPDM N = NBB	A = ALU	V = VITON	1 = BSP 2 = Flanged 5 = NPT	- = zone 2	AB = STANDARD

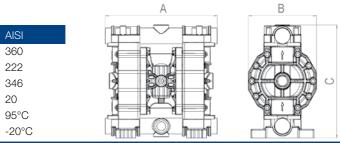
Technical data	
Fluid connections:	1" BSP
Air connection:	1/2" BSP
Max flow-rate:	170 lt/min
Max air pressure:	8 bar
Max delivery head:	80 m
Max Suction Lift Dry:	6 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	7,5 mm
Noise level:	75 dB
Max Viscosity:	35.000 cps



😓 EX II 3/3 GD c IIB T 135°C

Dimensions						
	PP	PVDF	ALU			
A (mm)	370	370	370			
B (mm)	222	222	222			
C (mm)	370	370	364			
Weight kg	15	16	16			
MAX Temperature	65°C	95°C	90°C			
MIN Temperature	-4°C	-20°C	-20°C			

MOD	EL CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P016	P = PP KC = PVDF+CF A = ALU S = SS	M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = Flanged 5 = NPT	- = zone 2	AB = STANDARD



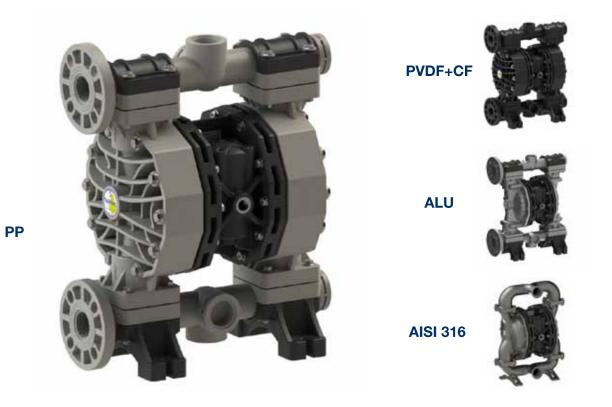






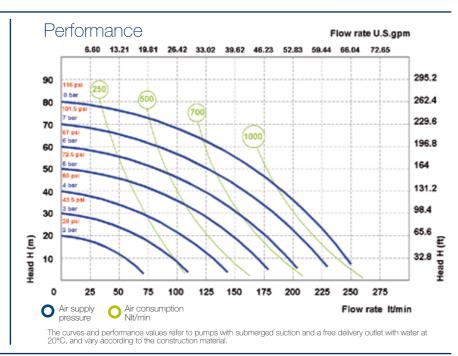
В





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:	6 m
Max Suction Lift Wet:	9,8 m
Max Solid passing:	7,5 mm
Noise level:	75 dB
Max Viscosity:	35.000 cps



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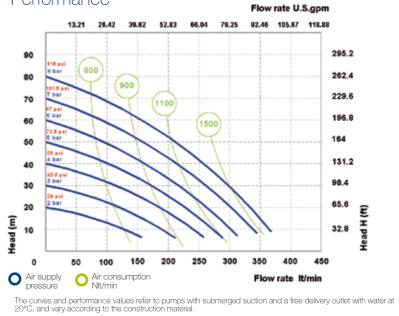
😓 EX II 3/3 GD c IIB T 135°C

Dimensions				
	PP	PVDF	ALU	AISI
A (mm)	370	370	370	360
B (mm)	222	222	222	222
C (mm)	370	370	364	346
Weight kg	15	16	16	20
MAX Temperature	65°C	95°C	90°C	95°C
MIN Temperature	-4°C	-20°C	-20°C	-20°C

Composition

MODE	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0250		M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBB	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	V = VITON	1 = BSP 2 = Flanged 5 = NPT	- = zone 2	AB = STANDARD

Technical data	
Fluid connections:	1" 1/2 BSP DN 40
Air connection:	3/4" 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



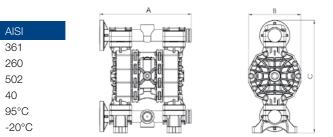
😓 EX II 3/3 GD c IIB T 135°C

Dimensions

	PP	PVDF	ALU	
A (mm)	454	454	443	
B (mm)	260	260	260	
C (mm)	562	562	562	
Weight kg	18	22	22	
MAX Temperature	65°C	95°C	90°C	
MIN Temperature	-4°C	-20°C	-20°C	

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0400	P = PP KC = PVDF+CF A = ALU S = SS	M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	N = NBR	1 = BSP 2 = FLANGED 5 = NPT	• = zone 2	AB = STANDARD EF = STANDARD AISI 316











ALU



Technical data

Fluid connections:	1" 1/2 BSP DN
Air connection:	3/4" BSP
Max flow-rate:	550 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



Dimensions

😔 EX II 3/3 GD c IIB T 135°C

	PP	PVDF	ALU	AISI		
A (mm)	595	595	595	582		
B (mm)	345	345	345	345		
C (mm)	565	565	560	570		
Weight kg	31	36	36	60		
MAX Temperature	65°C	95°C	90°C	95°C		
MIN Temperature	-4°C	-20°C	-20°C	-20°C		

Composition

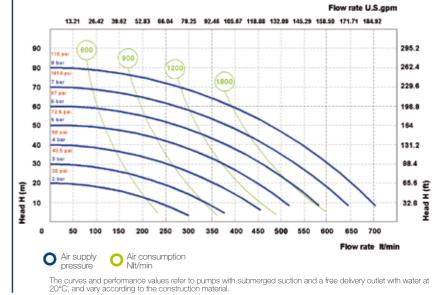
MOD	ELCASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P050	P = PP KC = PVDF+CF A = ALU S = SS		S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE		1 = BSP 2 = Flanged 5 = NPT	= = zone 2	AB = STANDARD EF = STANDARD AISI 316



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

😓 EX II 3/3 GD c IIB T 135°C



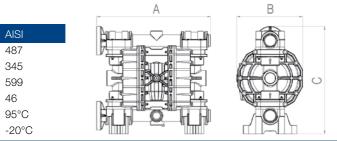


Dimensions

Phoenix

	PP	PVDF	ALU			
A (mm)	595	595	595			
B (mm)	345	345	345			
C (mm)	565	565	560			
Weight kg	31	36	36			
MAX Temperature	65°C	95°C	90°C			
MIN Temperature	-4°C	-20°C	-20°C			

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0700	P = PP KC = PVDF+CF A = ALU	M = SANTOPRENE	S = SS D = EPDM N = NBB	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = Flanged 5 = NPT	• = zone 2	AB = STANDARD EF = STANDARD AISI 316







PVDF

ALU



В

AISI 316

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:	10 mm
Noise level:	78 dB
Max Viscosity:	55.000 cps





Dimensions

😔 EX II 3/3 GD c IIB T 135°C

DIMENSIONS				
	PP	PVDF	ALU	AISI
A (mm)	685	685	570	570
B (mm)	417	417	420	420
C (mm)	933	933	838	838
Weight kg	50	55	55	120
MAX Temperature	65°C	95°C	90°C	95°C
MIN Temperature	-4°C	-20°C	-20°C	-20°C

Composition

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









SS AISI 316 electro-polished and PP food grade (P7) Flow-rate from 8lt/min to 1.000 lt/min Tri-Clamp Connection. ATEX certification Atex zone 2 - EX II 3/3 GD c IIB T 135°C Atex zone 1 - EX II 2/2 GD c IIB T 135°C







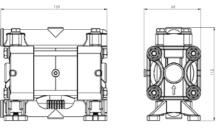


FDA

Choenix



PP FOOD GRADE

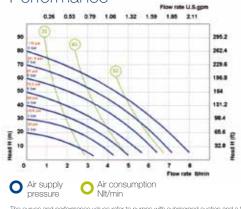


Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

1/4" BSP 4 mm 8 lt/min 8 bar 6.000 cps

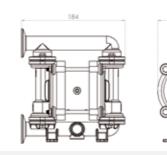
Performance



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.







Composition

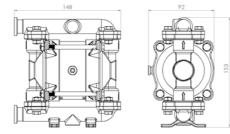
MODEL CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0007 P = PP FOOD GRADE	NT = NBR+PTFE	T = PTFE S = SS	P = PP	T = PTFE	1 = BSP 5 = NPT	- = zone 2	AB = STANDARD

Comp	Composition								
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	- = zone 2 X = zone 1	AB = STANDA	





AISI 316 ELECTRO-POLISHED

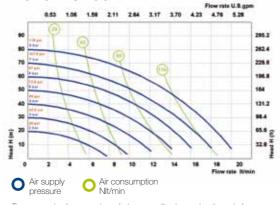


Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 1/2" 6 mm 20 lt/min 8 bar 12.000 cps

Performance



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

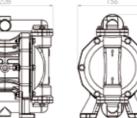




AISI 316 ELECTRO-POLISHED



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Composition

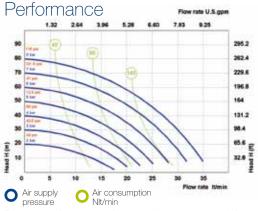
Composition									
MODEL CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS		
PF0018 S = SS Polished	HT = HYTREL+PTFE	T = PTFE S = SS	P = PP	T = PTFE	3 = TRI-CLAMP 1 = BSP	- = zone 2 X = zone 1	AB = STANDARD		

Comp	osition			
MODEL	CASING	DIAPHRAGM	BALLS	SEATS
PF0050	S = SS POLISHED	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS

Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 1" 6 mm 35 lt/min 8 bar 15.000 cps



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 1" 1/4" BSP 55 lt/min 8 bar 20.000 cps



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.







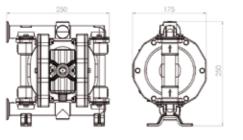
Composition

PF0100 POLISHED

 $\mathbf{S} = SS$



AISI 316 ELECTRO-POLISHED



T = PTFE

S = SS

S = SS

T = PTFE

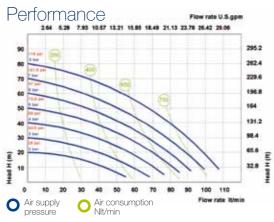
DIAPHRAGM

HT = HYTREL+PTFE

Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 1" 3/8" BSP 110 lt/min 8 bar 25.000 cps



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

= zone 2

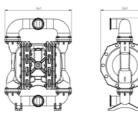
X = zone 1



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AISI 316 ELECTRO-POLISHED

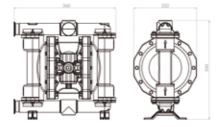


Composition									
MODEL CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS		
PF0400 S = SS Polished	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP	- = zone 2 X = zone 1	EF = STANDAF		





AISI 316 ELECTRO-POLISHED



Technical data

3 = TRI-CLAMP

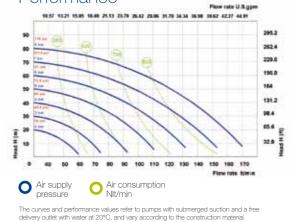
1 = BSP

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 1"1/2 1/2" BSP 170 lt/min 8 bar 35.000 cps

AB = STANDARD

Performance



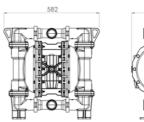
fluimac Food Phoenix FDA

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AISI 316 ELECTRO-POLISHED



Composition

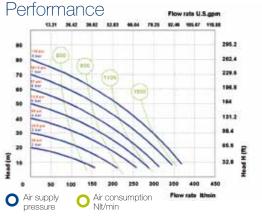
Compositio							
MODEL CASIN	G DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0160 S = SS Polish	IED HT = HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP	• = zone 2 X = zone 1	AB = STANDARD

Comp	osition			
MODEL	CASING	DIAPHRAGM	BALLS	SEATS
PF0500	S = SS Polished	HT = HYTREL+PTFE	T = PTFE S = SS	S = SS

Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 2" 3/4" BSP 380 lt/min 8 bar 40.000 cps

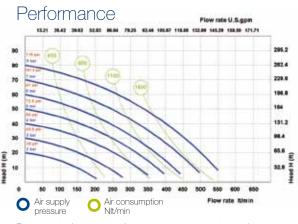


The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 2" 3/4" BSP 550 lt/min 8 bar 50.000 cps



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

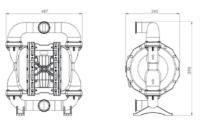








AISI 316 ELECTRO-POLISHED

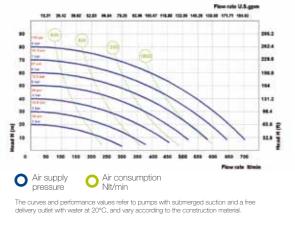


Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

Tri-Clamp 2"1/2 3/4" BSP 700 lt/min 8 bar 50.000 cps

Performance



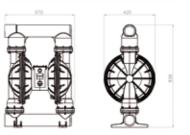
Composition

MODEL		PHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PFN700 S = 5 POLI	SS Shed ht =	HYTREL+PTFE	T = PTFE S = SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP	- = zone 2 X = zone 1	EF = STANDARD





AISI 316 ELECTRO-POLISHED

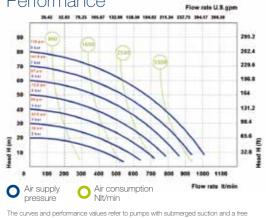


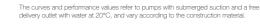
Technical data

Fluid connections: Air connection: Max flow-rate: Max air pressure: Max viscosity:

3" BSP 3/4" BSP 1050 lt/min 8 bar 55.000 cps

Performance





Comp	osition							
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

Air operated double diaphragms pumps with special features: PHOENIX ATEX certification zone1 ATEX ACCURATE PHOENIX remote control DRUM PHOENIX to empty drums and tanks TWIN PHOENIX with double inlet/outlet









European ATEX Directive 94/9/CE



Safety symbols: DIN 40012 Annex A

II Equipment Group: surface

2/2 Equipment category: 2 Level of protection - High level - Zone 1 **GD** Type of explosive atmospheres (group II) G = Gas vapours – D = Dust

c Equipment protection: constructional safety (EN 13463-5). **IIB Group of gas:** IIB Ethylene. Exclusion of the following products: Hydrogen, acetylene, carbon disulphide.

T 135° (T4) Temperature class (group II): Maximum surface temperature [°C] 135

PUMPS

7 - 18 - 30 - 50 - 65 100 - 160 - 250 - 400 500 - 700 - 1000

- Petrol-Chemical Industry
- Painting industry
- Flexographic industry
- Automotive industry
- Food industry

Technical data

Fluimac has filed with the BUREAU VERITAS certification body the documentation certifying ATEX compliance pursuant to Directive 94/9/CE for its ranges of AODD pumps and pulsation dampeners, with special construction materials to have zone 1 certification.





Special Pumps



Technical data

ACCURATE PHOENIX are Pumps gives 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.







PUMPS

DP18 - DP30 - DP50 DP65 - DP100 DP160

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.





PUMPS

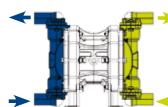
TP18 - TP30 - TP50 **TP65 - TP100 - TP160 TP250 - TP400**

- Painting industry Wastewater
- technology
- Printing industry
- Paper processing
- Flexographic industry



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





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.



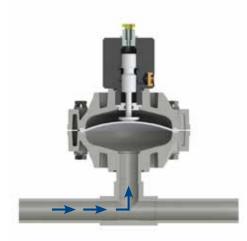
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DAMPER

The active pulsation dampener is the most efficient way to remove pressure variations on the discharge of the pump. Fluimac pulsation dampener works actively with compressed air and a diaphragm, automatically setting 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.

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.





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.





Technical data

Fluid connections:	3/
Air connection:	6
Max air pressure:	8

3/4"

bar

mm

PVDF POMc 119 119 119 143 143 143 0,6 0,7 0,65 95°C

-20°C



A (mm)

B (mm)

Technical data

Fluid connections: Air connection: Max air pressure:

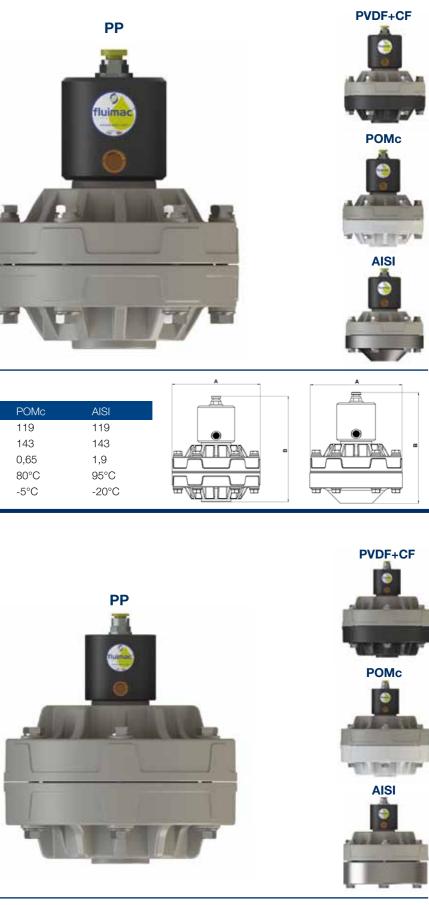
1" 8 mm 8 bar



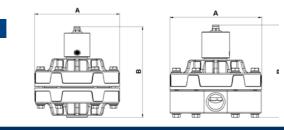
Dimensions

	PP	PVDF	POMc	, I
A (mm)	181	181	181	
B (mm)	195	195	195	
Weight kg	1,6	2	1,9	
MAX Temperature	65°C	95°C	80°C	9
MIN Temperature	-4°C	-20°C	-5°C	











Technical data

Fluid connections: Air connection: Max air pressure:

160 - 250 400







DITIENSIONS				
	PP	PVDF	POMc	AISI
A (mm)	233	233	233	233
B (mm)	270	270	270	275
Weight kg	3,8	4	3,9	5,9
MAX Temperature	65°C	95°C	80°C	95°C
MIN Temperature	-4°C	-20°C	-5°C	-20°C

1"1/2

8 bar

10 mm





Fluid connections: Air connection: Max air pressure:

2"

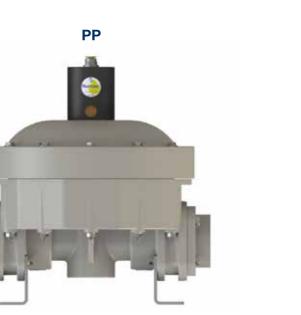
12 mm

8 bar

500 - 700 1000

Dimensions

	PP	PVDF	ALU	AISI
A (mm)	404	404	404	350
B (mm)	420	420	420	418
Weight kg	13,7	17	14,3	21,6
MAX Temperature	65°C	95°C	90°C	95°C
MIN Temperature	-4°C	-20°C	-20°C	-20°C











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

flui-guard

DIAPHRAGM FAILURE **DETECTION FLUI-GUARD** The Electronic Leak Detector provide a signal via warning lights, an audible alarm, and the pump can be shut down.

INOX TROLLEY It makes transportable pumps



VALVES, FITTINGS AND CONNECTIONS IN PP, PVC, INOX

0









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



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



PNEUMATIC OR ELECTRONIC BASKET STRAINER **BATCH CONTROL**

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



FILTERS IN PP

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



ANTI VIBRATION FEET KIT Reduces physical

vibration from AODD pump operation.



PP, PVDF, ALU, SS NOOZLE Dispenser to delivery control and batching.



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



FLANGE **CONNECTION KIT** Adapt a pump from BSP type connection to flanges with this kit.