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 9001:2015

FDA COMPLIANT

EAC CONFORMITY MARKING

PRODUCTS

PRODUCTS	RANGE	CERTIFICATES

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
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 ¼" to 3".

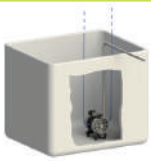
PHOENIX FOOD
Air operated double diaphragms pumps
Realized in:
SS AISI 316 electro-polished.
Flow-rate from 20 lt/min to 1.000 lt/min. Tri-Clamp Connection.

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 ¼" to 3".

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 ¼" to 1"¼.

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".

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 ¼" to 2".



SUBMERSIBLE PHOENIX
Air operated double diaphragm pumps with special features, design to be submerged.
Applicable to all size of pumps.

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.

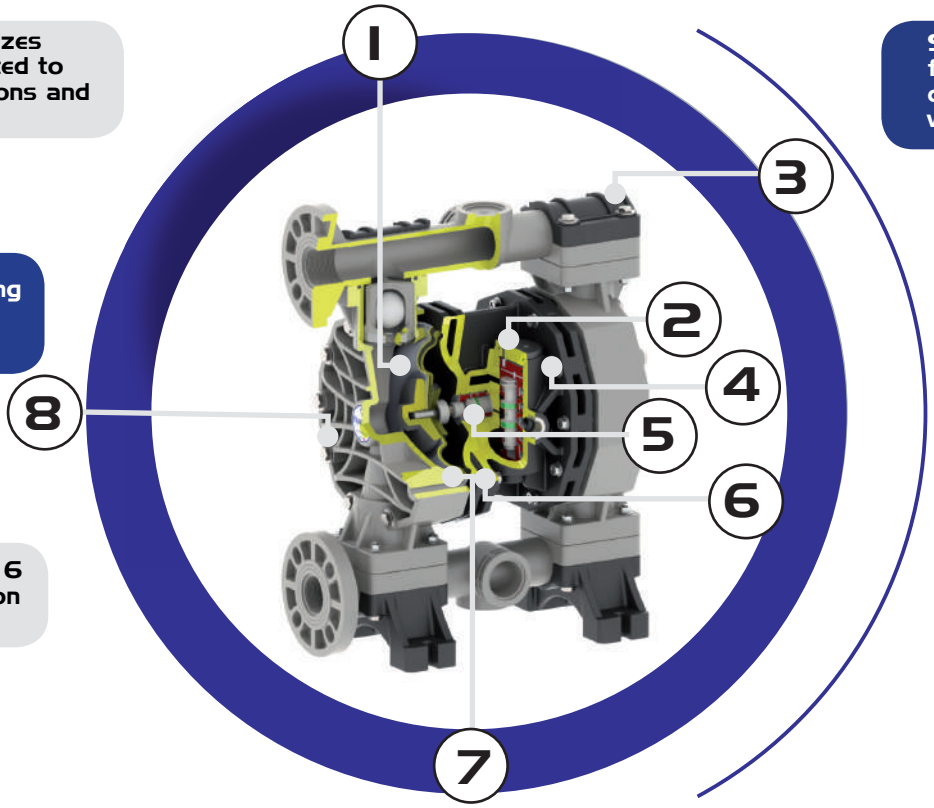
TECHNICAL FEATURES

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

QUALITY 100% wet tested after final assembly: deadheading, priming and sealing

SAFE ATEX certifications in all versions: Conductive plastic pumps available

FLEXIBILITY Multiple porting options available along with interface options

PUMP OPERATION

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