



SPECIAL PUMPS

PHOENIX ATEX - Ex ZONE I

PHOENIX ATEX - IECEx

ACCURATE PHOENIX

FLAP PHOENIX

STEEL PHOENIX

DRUM PHOENIX

SUBMERSIBLE PHOENIX

TWIN PHOENIX

POWDER PHOENIX

PUMPS

ALL RANGE

MAINS APPLICATIONS

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

ATEX MARKING

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

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

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

 **II 2/2 G Ex h IIC T4 Gb** (P01-P03-P07-P18-P30-P50-P55-P60-P65-P90-P100-P101- P120)

 **II 2/2 G Ex h IIB T4 Gb** (P160-P170-P171-P250-P252-P400-P700-P1000)

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

 **II 2 D Ex h IIB T 135°C Db X** (all models)



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

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

IECEx MARKING

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

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

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

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

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

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

Ex h IIB T 135°C Db (all models)



II	Safety symbol		
h	Type of protection according to ISO IEC 80079-36:2016		
IIB o IIC	Product suitable for installation in the presence of Group IIB or IIC gas (depending on the model)	IIB	Product suitable for installation in presence of Group IIB dusts (excluding conductive dusts)
T4	Temperature class	T135°C	Maximum surface temperature
Gb	EPL Gb protection level in accordance with EN 60079-0: 12 and EN 80079-36: 16 Standards	Db	EPL Gb protection level in accordance with EN 60079-0: 12 and EN 80079-36: 16 Standards
X	Special Condition for safe use: the pump can't process explosive dust inside.		

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

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

PHOENIX ATEX FOR MINES

PUMPS

ALL RANGE

MAINS APPLICATIONS

- PETROL - CHEMICAL INDUSTRY
- FLEXOGRAPHIC INDUSTRY
- FOOD INDUSTRY
- PAINTING INDUSTRY
- AUTOMOTIVE INDUSTRY

I M2 Ex h I Mb X

I

Mines

M2

Category M2 equipment that can be installed in mines in "hazardous condition 2" that is in a potentially explosive atmosphere consisting of firedamp and coal dust.

Ex

Conventional symbol Ex

h

Protection mode for constructional safety "c"

I

Equipment for use in mine

Mb

Protection level EPL Mb in accordance with EN 60079-0:12 and EN 80079-36:16 standards.

X

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

NB: aluminium versions excluded



TECHNICAL DATA

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

ACCURATE PHOENIX

PUMPS

AP7

AP90

AP18

AP120

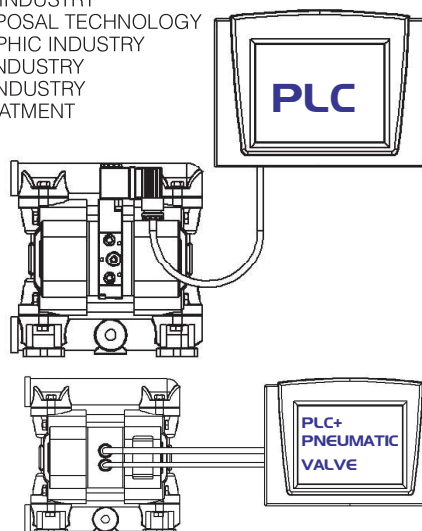
AP30

AP170

AP60

AP252

- 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.

FLAP PHOENIX

PUMPS

FP0170	FPF0170
FP0400	FPF0400
FP0700	FPF0700
FP1000	FPF1000



MAIN APPLICATIONS

- WASTE DISPOSAL TECHNOLOGY
- FOOD INDUSTRY
- CERAMIC



TECHNICAL DATA

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

STEEL PHOENIX

PUMPS

from SP0018 to SP0700 MODELS
from SPF0018 to SPF0700 MODELS



MAIN APPLICATIONS

- CHEMICAL INDUSTRY
- AUTOMOTIVE INDUSTRY
- FOOD INDUSTRY



TECHNICAL DATA

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

DRUM PHOENIX

PUMPS

DP18 - DP30 - DP60 - DP120 - DP170

MAIN APPLICATIONS

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



TECHNICAL DATA

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

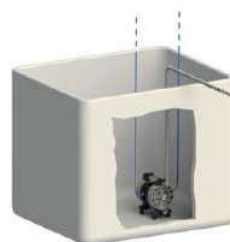
SUBMERSIBLE PHOENIX

PUMPS

ALL RANGE

MAIN APPLICATIONS

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



TECHNICAL DATA

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

NOTE: check the compatibility chart for all materials.

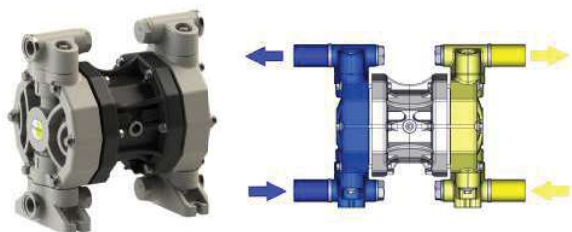
TWIN PHOENIX

PUMPS

ALL RANGE

MAIN APPLICATIONS

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



TECHNICAL DATA

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

POWDER PHOENIX

PUMPS

ALL RANGE

MAIN APPLICATIONS

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



TECHNICAL DATA

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