fluimac
pump solution

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AODD PUMPS

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ENGLISH

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pump solution

PIEZO

MATERIALS OF CONSTRUCTION:
PP, PVDF, POMc, POMc+CF
Flow-rate 8 lt/min
ATEX VERSION AVAILABLE

PIEZO

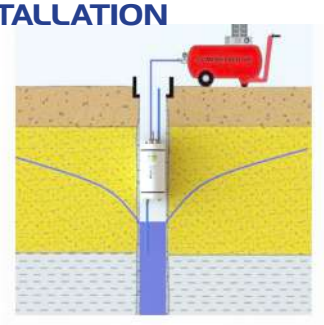
FLUIMAC developed and patented a new pump model, PIEZO PUMP, a unique pump, designed for the environmntal remediation applications.
PIEZO PUMP is an easily transportable pneumatic system, which can be installed inside wells with a minimum internal diameter of 4” for the following purposes:

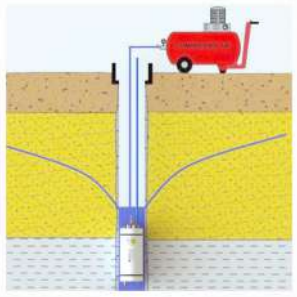
- Groundwater pumping as part of remediation activities or remediation plants;
- Recovery Technology for LNAPL / DNALP (light / dense non-aqueous phase liquid);
- Oil handling in ATEX classified areas;
- Low-flow representative sampling at different depths inside environmental monitoring wells;
- Excellent tool for environmental emergency response activities.

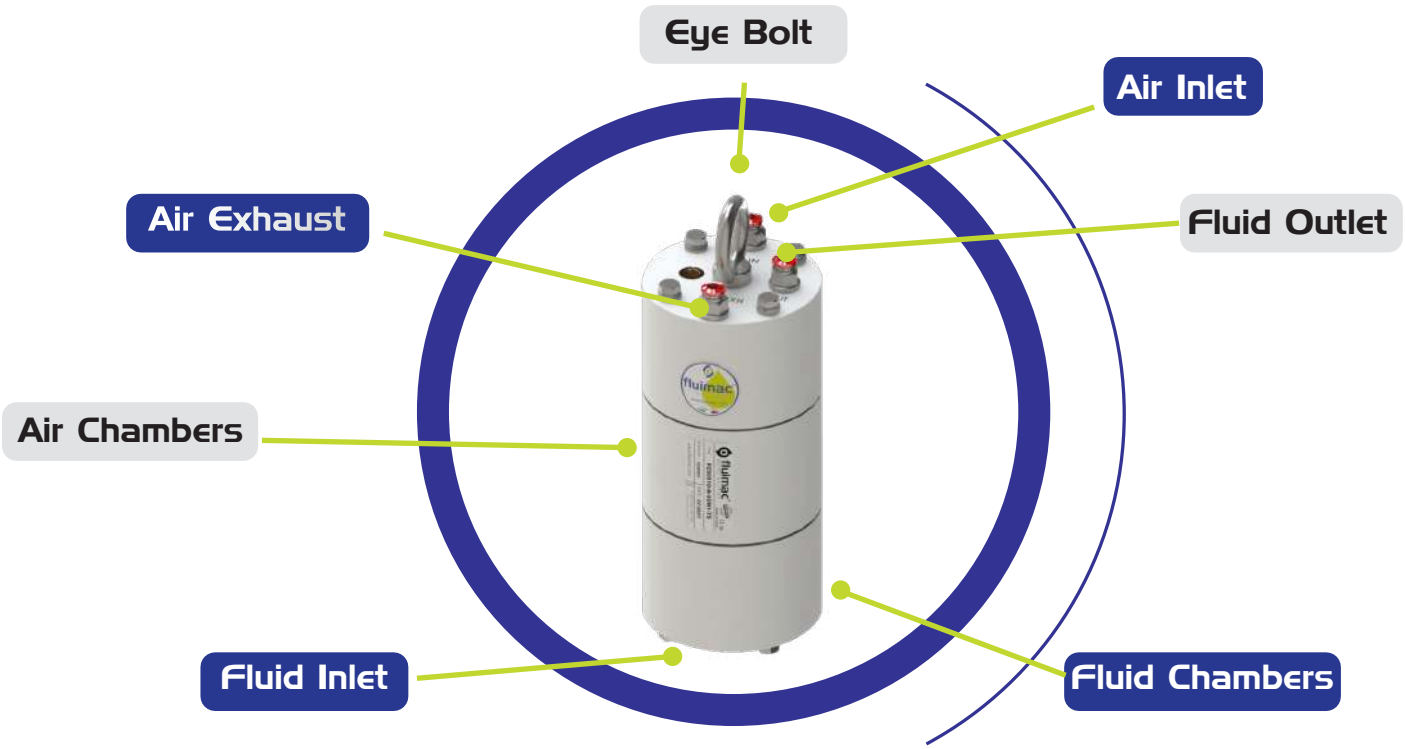
FEATURES:

- Operation with high subsidence value of water level (max. approx. 50 m);
- Possibility to work both above and below the water level;
- Can work with solids in the water flow (max. approx. 2.5 mm);
- Constant pumping at low flow rates (approx. 0.25-4.00 l/min)
- Easy flow management through compressed air supply;
- Lightweight, compact and compatible with 4” wells;
- Possibility to send the air exhaust out of the well.

INSTALLATION







PZ 0001 P- TT S

MODEL	SIZE	CASING	DIAPHRAGM	BALL

MODEL

PZ
PIEZO PUMP

SIZE

1
8 lt/min
1/4” BSPP

CASING

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

K
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.

DIAPHRAGM

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

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

BALL

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.

O V 1 - TS

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.

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.

1
BSP THREATED

-
ATEX ZONE 2
II 3/3 G Ex h IIC T4 Gc
II 3 D Ex h IIIB T135°C Dc X

X
ATEX ZONE 1
II 2/2 G Ex h IIC T4 Gb
II 2 D Ex h IIIB T135°C Db X

TABLE CODE

PIEZO PUMP

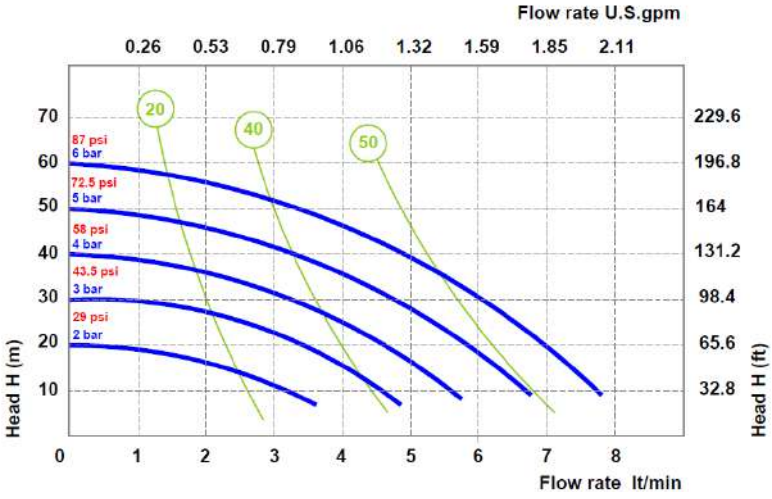
TECHNICAL DATA

Fluid connections	**1/4" BSP**
Air connection	**1/4" BSP**
Max. Flow rate	**8 lt/min**
Max air pressure	**6 bar**
Max delivery head	**60 m**
Max Suction Lift Dry	**3 m**
Max Solid passing	**2 mm**
Noise level	**65 dB**
Max Viscosity	**5.000 cps**
Displacement per Stroke	**24 CC ~**

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

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

PERFORMANCE



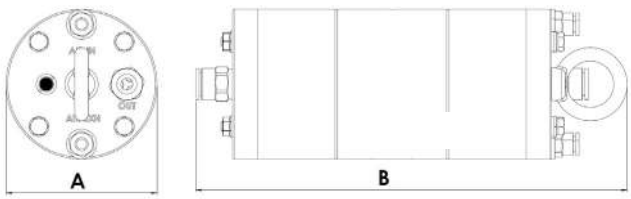
Air supply pressure

Air consumption Nit/min [SCFM]

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

DIMENSIONS

	A	B	Net Weight	Temperature	
POMC+CF	90 mm	242 mm	1,7 kg	- 5 °C	+ 80 °C
POMc	90 mm	242 mm	1,7 kg	- 5 °C	+ 80 °C
PVDF	90 mm	242 mm	2,2 kg	- 20 °C	+ 69
PP	90 mm	242 mm	1,7 kg	- 4 °C	+ 65 °C



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PZ001	**O** = POMc **P** = PP **K** = PVDF **OC** = POM+CF	**N** = NBR **TT** = PTFE+PTFE	**T** = PTFE **S** = SS	**O** = POMc **P** = PP **K** = PVDF	**N** = NBR **V** = VITON **D** = EDPM	**1** = BSP	**-** = ZONE 2 **X** = ZONE 1	**TS** = STANDARD

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Made in Italy

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