



# #AODDPUMPS

# AIRDRAIN

ABD 60 • 90



This innovative series was thought for well collecting operations. **AIRDRAIN** features high performances, **draining the liquid down to the bottom**, and smart compact design for narrow wells.

The series is synonym with **ease** (the pump is composed of only few components), **safety** (the pump is air-operated with no electric part) and **practicality** (the reduced length of the pump is ideal for installations into narrow wells, guaranteeing an easy extraction even with deformable wells.)

MATERIALS	POM-c	AISI 316I
TEMPERATURE min - max	-20°C - +70°C	-10°C - +100°C

## EX-PROOF VERSION

**AIRDRAIN** series is compliant with ATEX Zone 1 (II 2/2 **GD IIB c T4**) as the pumps are air-operated construction



II -/2 GD cIIB T4  
II 2/2 GD cIIB T4

**AIRDRAIN** are automatic pumps: the pumping effect is obtained through a deformable bellow made of PTFE, along with inlet and outlet valves. The pumps are also equipped with a probe to control the liquid level.

This functioning allows the draining of difficult liquids (such as viscous liquids or liquids with solids) maintaining excellent performance properties.

## MATERIALS' PROPERTIES

The pump body is made of **POM-c** and **AISI 316I**.

**POM-c** material provides optimal sliding properties (ideal for moving viscous liquids), high chemical and mechanical resistance (translated into longer life cycle of the pump) and stress corrosion resistance. It is indicated for pumping insolubles hydrocarbons into water. It is not indicated for high concentrated acids. AISI 316I material is giving the pump a very high resistance to corrosion and gives the necessary robustness for handling continuous operations.

## APPLICATIONS

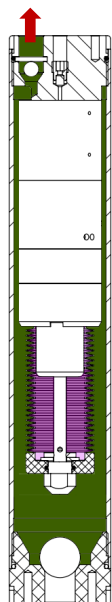
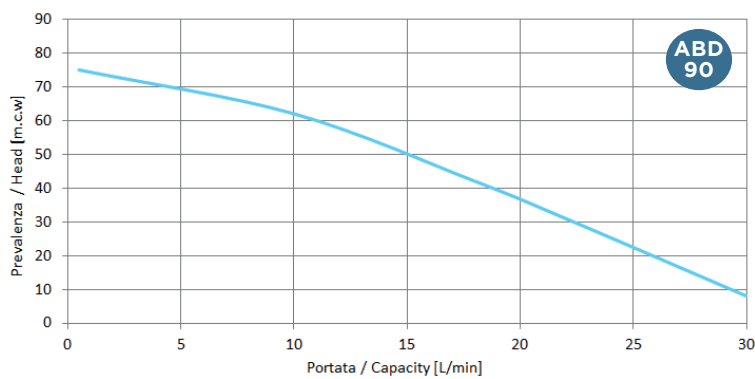
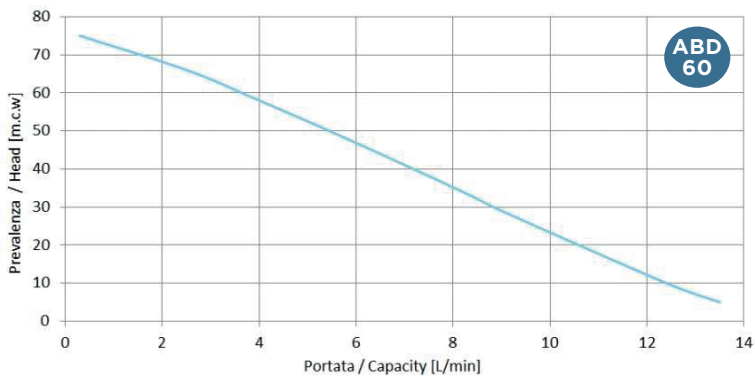
**AIRDRAIN** series was conceived for unloading wells and is mainly used for specific operations:

- **Leachate extraction from RSU landfills.**
- **Contaminated sites remediation for pumping supernatant**
- **Aquifers level control**
- **Aquifers captation**

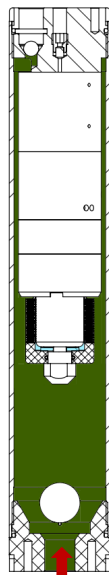
## OPTIONALS

We offer different configurations to make **AIRDRAIN** series ideal for extreme operating conditions providing long life cycle and reduced maintenance operations and costs.

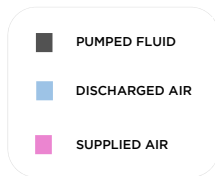
- **Lamellar filters** to avoid voluminous solids to enter the pump
- **Suction valve** can be placed at the bottom or top of the pump



DELIVERY



ASPIRING



PERFORMANCE	ABD 60	ABD 90
Max capacity	13.5 l/min	30 l/min
Max heading	75 mca	75 mca
Max pressure	8 bar	8 bar
Air consumption	90 NI/min	160 NI/min
Weight	1.5 Kg	4.7 Kg
Max volume/cycle	50 CC	200 CC

TECHNICAL DATA	ABD 60	ABD 90
Pump diameter	63 mm	89 mm
Well diameter	$\Phi \geq 65$ mm	$\Phi \geq 95$ mm
Fluid connections	3/8" BSP	1/2" BSP
Air connections	1/4" BSP	1/4" BSP

MATERIALS	
Bellow	PTFE
Liner	AISI 316
Head	POM-c
Seals	FPM

**Delivery phase:**

The chamber is subjected to a volume reduction - provoked by the bellow deformation - which increases the pressure and pushes the liquid.

**Aspiring phase:**

The chamber is subjected to a positive variation of the volume and a decreasing of the pressure. This determines the fluid aspiration.

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