General functions and range of applications, intended use

The multistage centrifugal submersible electric pumps series "ID 4" Ex" are electrical pumps multi-impeller and can be used for the following purposes:

- emptying rainwater wells collection and infiltration, also contaminated by hydrocarbons;
- draining of flooded areas also contaminated by hydrocarbons;
- raising of water from deep wells, bathtubs and tanks of first collection;
- waterworks of raising for industrial uses;
 pumping/extraction of liquids contaminated by hydrocarbons;
- removal of condensed water also contaminated by hydrocarbons in biogas plants;

The liquids handled can contain 250 g/m³ of sand maximum.

The Alpha/Beta EX borehole pumps are provided with a stainless steel check valve inside the head.

Rated data and performances

Electric

- rated voltage: $400V_{3\sim Y}$; $230V_{3\sim \Delta}$; $230V_{1\sim C}$

± 5%

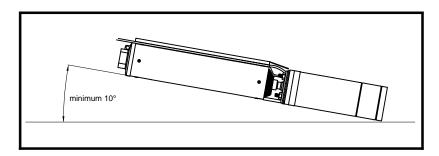
- connection: star or delta - rated frequency: 50 Hz - rated speed: 2850 rpm insulation class: $F(\Delta t F)$

Hydraulic

- liquid temperature : -20 ÷ +40°C - liquid density: < 1200 kg/m³

In order to guarantee the correct operation of the hydraulic parts of the Alpha/Beta EX electric submersible pumps, assured that the minimum delivery capacity is at least 5 l/min.

The electric pump cannot be tilted more than +/- 80° (to right or left).



Construction materials





Pump type	Component	Material
ID Alpha EX ID Beta EX	Gaskets	NBR
	Mechanical seal	HNBR/Silicon carbide/ Graphite/SS 316
	Cable	ID
	Motor case	Stainless steel AISI316
	Upper bearings support	Stainless steel AISI316
	External hydraulic part	Stainless steel AISI316
	Impellers/diffuser	POm/PPOm





