

## General functions and range of applications, intended use

The drainage electric sump pumps "ID Derby Ex" series are electrical pumps single-impeller with vertical axis and can be used, among the others, for the following purposes:

- emptying rainwater wells collection and infiltration contaminated by hydrocarbons;
- draining of flooded areas contaminated by hydrocarbons;
- raising of water from deep wells, bathtubs and tanks of first collection contaminated by hydrocarbons;
- waterworks of raising for industrial uses;
- collecting of hydrocarbons in storage tanks;
- removal of condensed water in biogas plants (even contaminated by hydrocarbons);

The liquids handled can contain solid particles small and average dimension (maximum 10 mm) and/or filamentous particles.

The "ID Derby Ex" pumps series can normally be used with liquids having from Ph 6 to Ph 14.

## Rated data and performances

- rated voltage:	400V <sub>3</sub> ; 230V <sub>1~</sub> ; ± 5%	
- connection:	star	
<ul> <li>rated frequency:</li> </ul>	50 Hz	
<ul> <li>rated speed:</li> </ul>	2850 rpm	
<ul> <li>insulation class:</li> </ul>	F (Δt F)	
<ul> <li>maximum altitude of duty:</li> </ul>	1000 m a.s.l.	
- liquid temperature :	-20 ÷ +40°C	
- liquid density:	< 1200 kg/m³	
- I <sub>A</sub> /I <sub>N</sub> :	3,8	
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In order to guarantee the correct operation of the hydraulic parts of the drainage electric submersible pumps "ID Derby Ex" series, assured that the minimum delivery capacity is at least 5 l/min.

## **Construction materials**





Pump type	Component	Material
ID Derby EX	Gaskets	HNBR
	Mechanical seal	HNBR/Silicon carbide/ Graphite/SS 316
	Cast iron	G25
	Cable	ID
	Motor case	Stainless steel AISI316
	Bearings support	Cast Iron G25
	External hydraulic part	Cast Iron G25
	Impellers/diffuser	Cast Iron G25



ID DERBY EX



Sample of application

