



APPLICATIONS

The ATEX electric pumps ID series in conformity with 94/9/EC directive are fitted to pump aromatic hydrocarbons and may be used in potentially explosive atmospheres according to the ATEX marking:

ATEX marking

II	Group of apparatus - equipment for surface plants.
2G	Category - equipment compatible to be installed in potentially explosive atmosphere with gas, steams and vapors (area 1); this equipment is suitable for area 1 and area 2.

ATEX marking – protection

Ex	Protection against explosions.
mb	Level b “encapsulation” protection for external connection box.
c	“Safety construction” protection for hydraulic part.
IIC	Subgroup of gas equipment compatible to be installed with all combustible gas.
T5 (T6)	Class temperature – maximum temperature of the equipment 100°C. When the mark is T6 the maximum temperature of the machine is 85°C.
Gb	Protection level of equipment compatible to be installed in potentially explosive atmospheres with combustible gas - level b.

FEATURES

- Multistage centrifugal electric submersible pumps for wells. The pumps are characterized by a floating impellers system that ensures high resistance to sand abrasion.
- External pump case, delivery port, suction port, shaft and other components in AISI 316 stainless steel.
- The check valve in AISI 316 stainless steel is installed inside the delivery head.
- Motor coupling meets NEMA standards.
- Impellers and diffusers in special technopolymer.
- The pump is equipped with special electric cable, resistant to permanent immersion in hydrocarbons.
- Temperature of pumped liquid: max +40°C.
- Special and balanced mechanical seal, it is particularly robust and reliable, with high resistance to wear and chemical aggression.

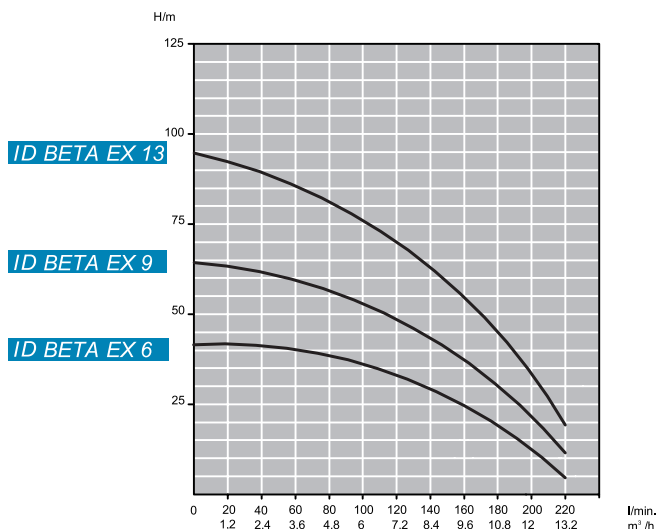
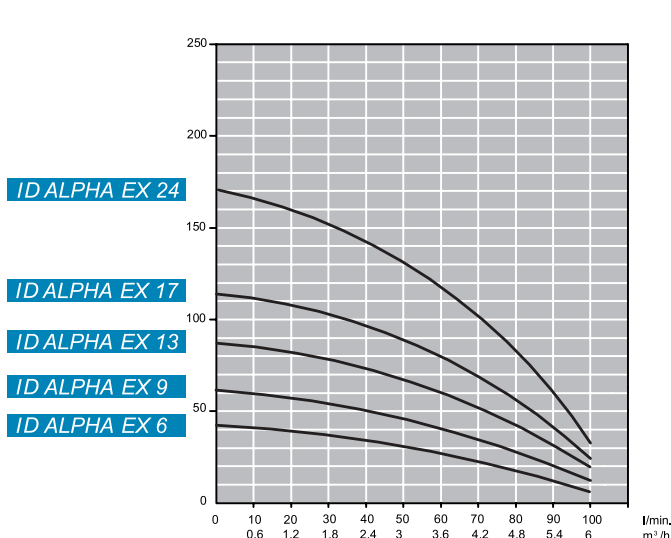
MOTOR

- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Class F insulation.
- IP68 protection.
- Working voltage: single-phase 230 V, three-phase 400 V.

Technical specifications

Pump type	Motor		Cap. MF VL 450	Max current		Outlet Ø	Delivery												
	HP	kW		230V	400V		l/min	0	40	60	80	100	120	140	180	200	220		
				1~	3~													m³/h	
		A		A															
ID ALPHA EX 6	0,75	0,55	20	1,9	5,6	1" 1/4	Manometric head (m)	43	37	31	19	7							
ID ALPHA EX 9	1	0,75	30	6,6	2,3			65	55	46	28	11							
ID ALPHA EX 13	1,5	1,1	40	9,5	3,3			95	80	67	45	18							
ID ALPHA EX 17	2	1,5	50	12	4,2			122	106	88	60	21							
ID ALPHA EX 24	3	2,2	-	-	5,9			185	153	130	89	30							
ID BETA EX 6	1,5	1,1	40	9,5	3,4	2"		35			31	29	27	24	17	11	4		
ID BETA EX 9	2	1,5	50	12	4,2			53			44	42	40	36	25	17	9		
ID BETA EX 13	3	2,2	-	-	5,9			78			65	61	57	52	38	28	16		

Performance curves



Dimensions and weights

Pump type	Dimensions mm					Weight kg				
	A	B		C		A	B		C	
		230V 1~	400V 3~	230V 1~	400V 3~		230V 1~	400V 3~	230V 1~	400V 3~
ID ALPHA EX 6	358	328	328	686	686	2,8	9	9	11,8	11,8
ID ALPHA EX 9	443	328	328	771	771	3,4	9	9	12,4	12,4
ID ALPHA EX 13	557	368	368	925	925	4,2	10,9	10,9	15,1	15,1
ID ALPHA EX 17	671	448	408	1119	1079	4,8	14,7	12,8	19,5	17,6
ID ALPHA EX 24	894	-	448	-	1342	6,5	-	14,7	-	21,2
ID BETA EX 6	493	368	368	861	861	4,2	10,9	10,9	15,1	15,1
ID BETA EX 9	646	448	408	1094	1054	4,6	14,7	12,8	19,3	17,4
ID BETA EX 13	850	-	448	-	1298	6	-	14,7	-	20,7

