



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.
- External pump case, delivery port, suction port, shaft and other components in AISI 316 stainless steel.
- Impellers and diffusers in special technopolymer.
- The check valve in AISI 316 stainless steel is installed inside the delivery head.
- Motor coupling meets NEMA standards.
- Temperature of pumped liquid: max +40°C.
- The pump is equipped with special electric cable, resistant to permanent immersion in hydrocarbons.
- Special and balanced mechanical seal, it is particularly robust and reliable, with high resistance to wear and chemical aggression.

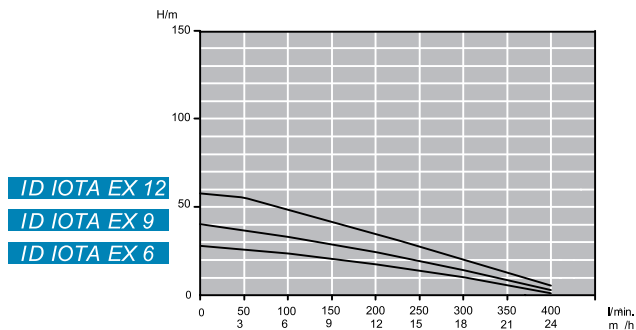
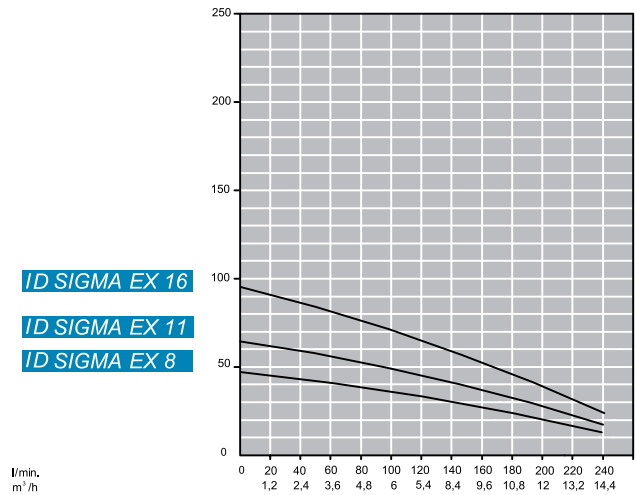
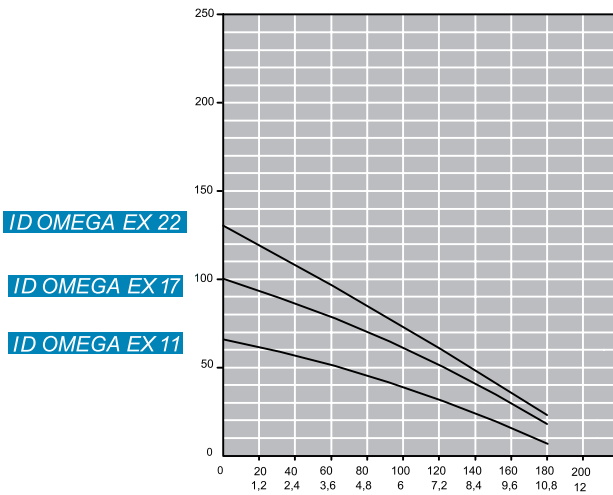
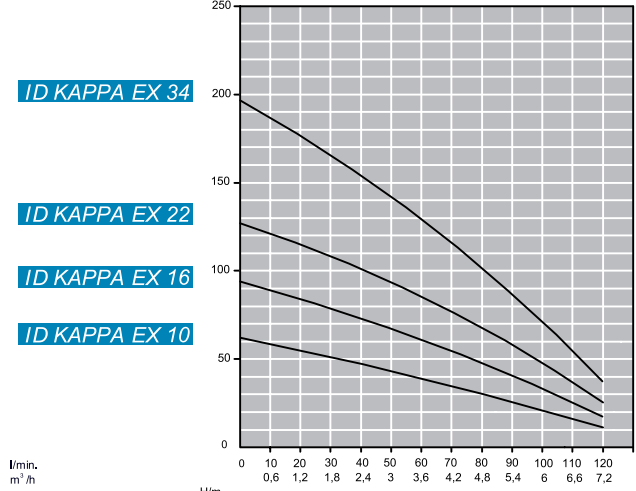
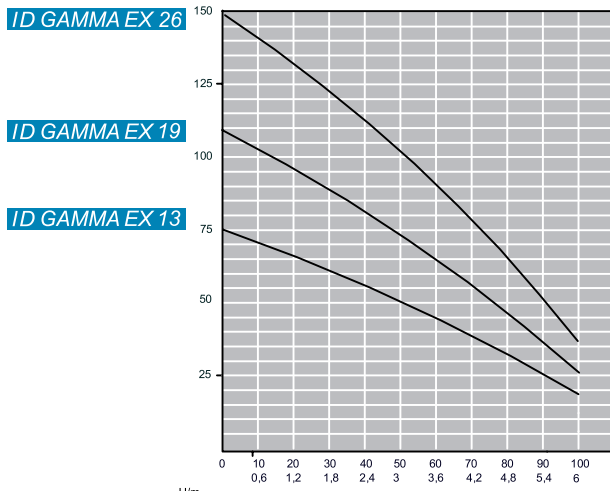
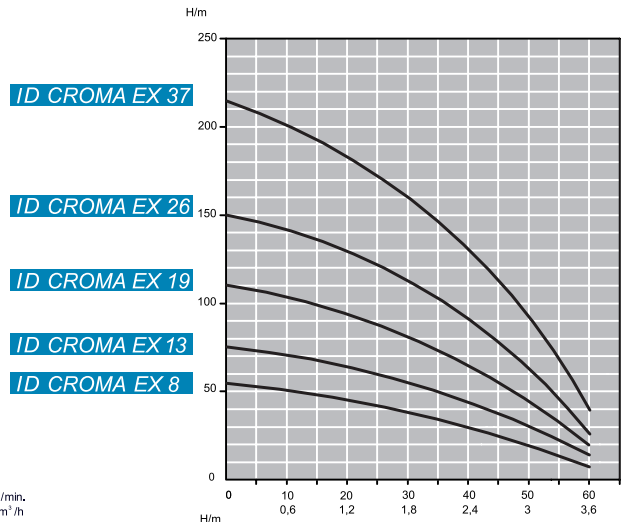
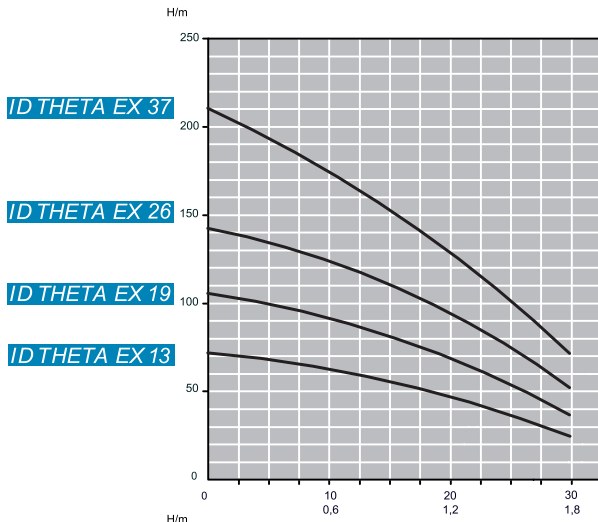
MOTOR

- 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

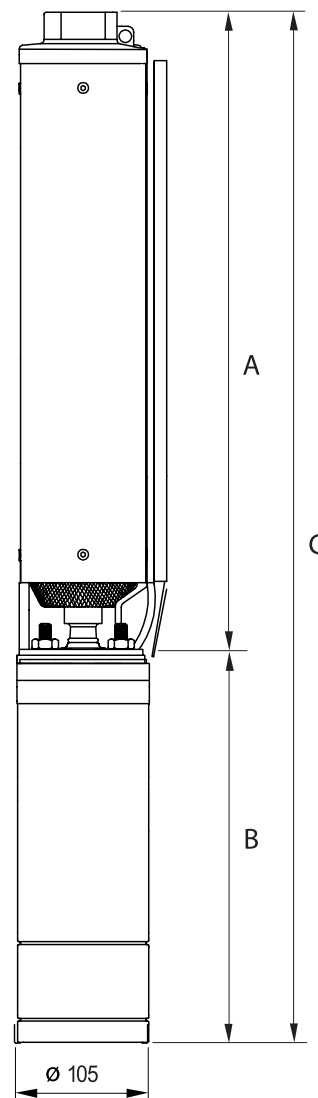
Pump type	Motor		Cap. MF VL 450	Max current		Outlet Ø	Delivery																								
	HP	kW		230V 1~	400V 3~		l/min	0	10	20	30	40	50	60	70	80	90	100	110	120	140	160	180	200	240	280	320	360	400		
								A	A	m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,2	8,4	9,6	10,8	12	14,4	16,8	19,2	21,6
	Manometric head (m)																														
ID THETA EX 13	0,5	0,37	16	1,5	3,8	1" 1/4	70	62	46	25																					
ID THETA EX 19	0,75	0,55	20	1,9	5,5		103	91	67	37																					
ID THETA EX 26	1	0,75	30	6	2,2		141	125	92	51																					
ID THETA EX 37	1,5	1,1	40	8,7	3,4		210	177	128	72																					
ID CROMA EX 8	0,5	0,37	16	1,5	4,9		51	48	43	38	31	21	10																		
ID CROMA EX 13	0,75	0,55	20	1,9	5,6		74	70	62	55	45	31	14																		
ID CROMA EX 19	1	0,75	30	6,4	2,2		110	102	93	81	65	45	20																		
ID CROMA EX 26	1,5	1,1	40	9,2	4,2		150	140	127	111	89	62	27																		
ID CROMA EX 37	2	1,5	50	12,5	5,7		214	199	181	157	127	88	39																		
ID GAMMA EX 13	1	0,75	30	6,4	2,3		75	71	67	61	56	50	44	37	31	25	18														
ID GAMMA EX 19	1,5	1,1	40	9,7	3,7		110	104	98	89	82	73	64	54	45	36	26														
ID GAMMA EX 26	2	1,5	50	12,9	4,8		150	142	134	122	112	100	89	75	63	51	36														
ID KAPPA EX 10	1	0,75	30	5,9	2,1		61			50	46	43	38	34	30	25	21	16	11												
ID KAPPA EX 16	1,5	1,1	40	9	3,3		93			80	74	68	61	55	48	41	33	25	18												
ID KAPPA EX 22	2	1,5	50	12,1	4,5		128			110	102	93	84	75	66	56	45	35	25												
ID KAPPA EX 34	3	2,2	-	-	6,1		198			170	158	144	130	116	102	86	70	54	38												
ID OMEGA EX 11	1,5	1,1	40	9	3,4		65				56	53	50	48	46	43	40	36	32	25	18	8									
ID OMEGA EX 17	2	1,5	50	12,7	4,7		100				86	82	77	74	71	66	61	55	52	41	28	18									
ID OMEGA EX 22	3	2,2	-	-	5,7		130				108	103	98	91	84	78	72	67	61	49	34	22									
ID SIGMA EX 8	1,5	1,1	40	9,1	3,7		47					42	41	40	39	37	36	34	32	30	26	24	20	12							
ID SIGMA EX 11	2	1,5	50	11,7	4,8		65					58	57	55	53	51	49	47	45	41	37	33	28	17							
ID SIGMA EX 16	3	2,2	-	-	6,1		94					84	82	80	77	74	71	68	65	59	53	47	40	24							
ID IOTA EX 6	1,5	1,1	40	8,1	3,2		28								26	25	24	23	22	21	19	17	16	13	9	6	3	1			
ID IOTA EX 9	2	1,5	50	10,8	4,5		40									34	32	31	29	28	27	26	25	24	20	16	10	6	2		
ID IOTA EX 12	3	2,2	-	-	5,8		56										48	47	46	45	44	42	40	36	34	29	23	17	11	5	

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 THETA EX 13	475	328	328	803	803	3,8	9	9	12,8	12,8
ID THETA EX 19	610	328	328	938	938	4,9	9	9	13,9	13,9
ID THETA EX 26	790	328	328	1118	1118	6,2	9	9	15,2	15,2
ID THETA EX 37	1037	368	368	1405	1405	8,1	10,9	10,9	19	19
ID CROMA EX 8	363	328	328	691	691	3	9	9	12	12
ID CROMA EX 13	475	328	328	803	803	3,8	9	9	12,8	12,8
ID CROMA EX 19	610	328	328	938	938	4,9	9	9	13,9	13,9
ID CROMA EX 26	790	368	368	1158	1158	6,2	10,9	10,9	17,1	17,1
ID CROMA EX 37	1037	448	408	1485	1445	8,1	14,7	12,8	22,8	20,9
ID GAMMA EX 13	540	328	328	868	868	4,2	9	9	13,2	13,2
ID GAMMA EX 19	705	368	368	1073	1073	5,3	10,9	10,9	16,2	16,2
ID GAMMA EX 26	920	448	408	1368	1328	6,8	14,7	12,8	21,5	19,6
ID KAPPA EX 10	460	328	328	788	788	3,7	9	9	12,7	12,7
ID KAPPA EX 16	622	368	368	990	990	5	10,9	10,9	15,9	15,9
ID KAPPA EX 22	812	448	408	1260	1220	6,2	14,7	12,8	20,9	19
ID KAPPA EX 34	1140	-	448	-	1588	8,7	-	14,7	-	23,4
ID OMEGA EX 11	606	368	368	974	974	5	10,9	10,9	15,9	15,9
ID OMEGA EX 17	861	448	408	1309	1269	6,8	14,7	12,8	21,5	19,6
ID OMEGA EX 22	1054	-	448	-	1502	8	-	14,7	-	22,7
ID SIGMA EX 8	632	368	368	1000	1000	5,3	10,9	10,9	16,2	16,2
ID SIGMA EX 11	800	448	408	1248	1208	6,3	14,7	12,8	21	19,1
ID SIGMA EX 16	1405	-	448	-	1853	8,1	-	14,7	-	22,8
ID IOTA EX 6	656	368	368	1024	1024	5,1	10,9	10,9	16	16
ID IOTA EX 9	890	448	408	1338	1298	6,6	14,7	12,8	21,3	19,4
ID IOTA EX 12	1149	-	448	-	1597	8,6	-	14,7	-	23,3



- A Hydraulic part
- B Motor
- C Electric pump