



### 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

<b>II</b>	Group of apparatus - equipment for surface plants.
<b>2G</b>	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

<b>Ex</b>	Protection against explosions.
<b>mb</b>	Level b “encapsulation” protection for external connection box.
<b>c</b>	“Safety construction” protection for hydraulic part.
<b>IIC</b>	Subgroup of gas equipment compatible to be installed with all combustible gas.
<b>T5 (T6)</b>	Class temperature – maximum temperature of the equipment 100°C. When the mark is T6 the maximum temperature of the machine is 85°C.
<b>Gb</b>	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, impellers and diffusers in AISI 316 stainless steel.
- 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.

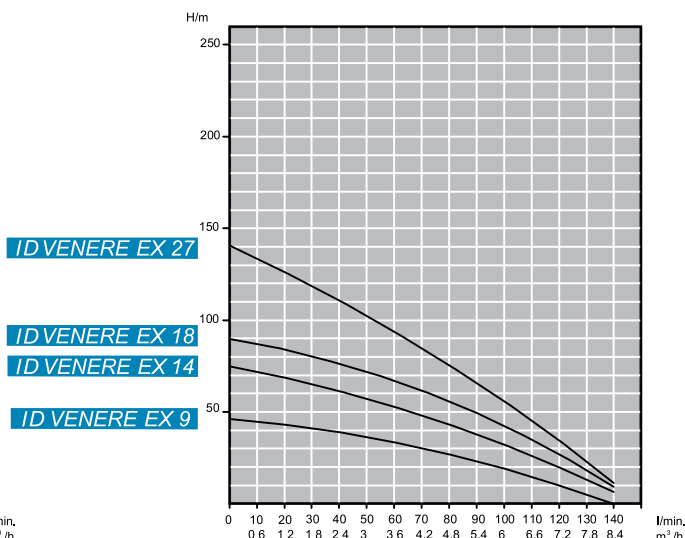
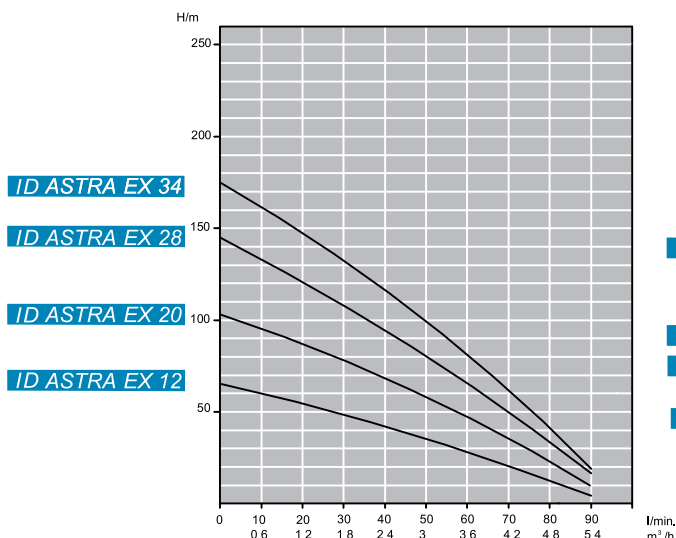
### MOTOR

- 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	400V		l/min	0	20	40	60	80	90	100	120	140						
				1~	3~			0	1,2	2,4	3,6	4,8	5,4	6	7,2	8,4						
				A	A																	
ID ASTRA EX 12	1	0,75	30	5,3	1,8	1" 1/4	Manometric head (m)	66	53	41	29	15	6									
ID ASTRA EX 20	1,5	1,1	40	9	3,3			103	88	68	48	25	10									
ID ASTRA EX 28	2	1,5	50	11,4	4,7			144	123	95	67	35	14									
ID ASTRA EX 34	3	2,2	-	-	5,3			175	150	116	82	42	17									
ID VENERE EX 9	1	0,75	30	6,3	1,9			45	41	37	32	26	21	16	9	3						
ID VENERE EX 14	1,5	1,1	40	9,3	3,5			74	67	60	52	44	39	34	18	6						
ID VENERE EX 18	2	1,5	50	11,5	4,7			90	81	72	64	54	50	45	24	8						
ID VENERE EX 27	3	2,2	-	-	5,5			140	124	108	94	74	65	56	29	10						

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 ASTRA EX 12	405	328	328	733	733	5,2	9	9	14,2	14,2
ID ASTRA EX 20	550	368	368	918	918	7,3	10,9	10,9	18,2	18,2
ID ASTRA EX 28	715	448	408	1163	1123	9,3	14,7	12,8	24	22,1
ID ASTRA EX 34	822	-	448	-	1270	10,6	-	14,7	-	25,3
ID VENERE EX 9	391	328	328	719	719	4,9	9	9	13,9	13,9
ID VENERE EX 14	495	368	368	863	863	6,3	10,9	10,9	17,2	17,2
ID VENERE EX 18	585	448	408	1033	993	7,4	14,7	12,8	22,1	20,2
ID VENERE EX 27	806	-	448	-	1254	10,2	-	14,7	-	24,9

