

ATEX





APPLICATIONS

Pumps in conformity with 94/9/CE Directive 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 4” wells.
- External pump case, delivery port, suction port, shaft, impellers and diffusers in stainless steel.
- The check valve made of stainless steel is installed inside the delivery head.
- Motor coupling meets NEMA standards.
- Temperature of pumped liquid: max +40°C.
- Available for permanent immersion in hydrocarbons version.
- Available in AISI 316 version.

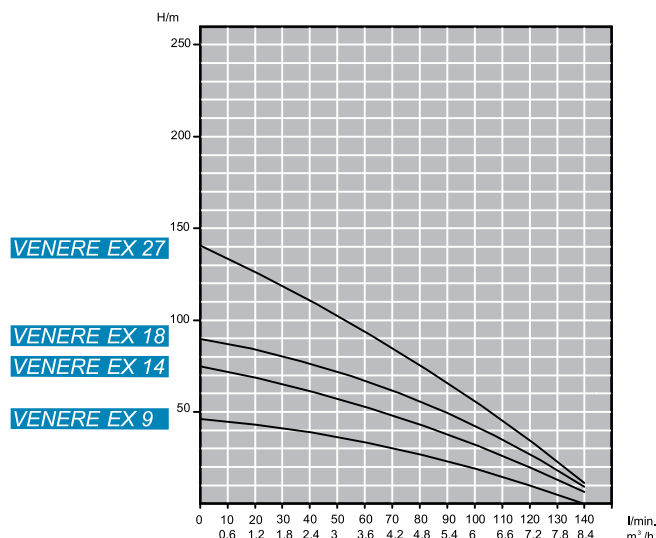
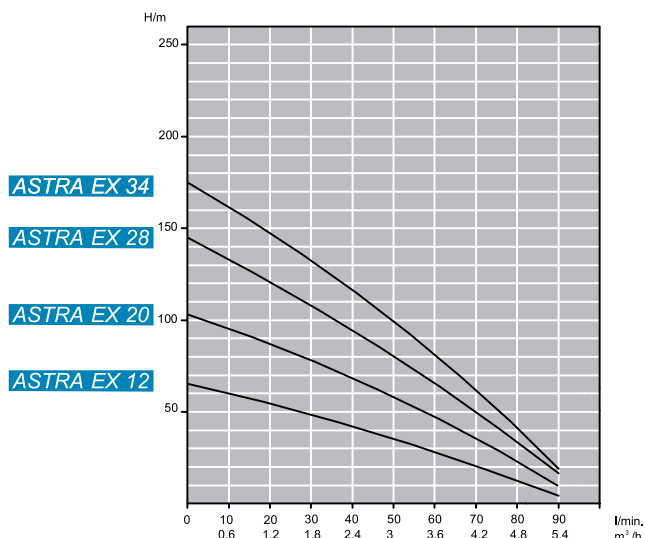
MOTOR

- 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	20	40	60	80	90	100	120	140			
				A	A												m³/h	0	1,2
ASTRA EX 12	1	0,75	30	5,3	1,8	1" 1/4	Manometric head (m)	66	53	41	29	15	6						
ASTRA EX 20	1,5	1,1	40	9	3,3			103	88	68	48	25	10						
ASTRA EX 28	2	1,5	50	11,4	4,7			144	123	95	67	35	14						
ASTRA EX 34	3	2,2	-	-	5,3			175	150	116	82	42	17						
VENERE EX 9	1	0,75	30	6,3	1,9			45	41	37	32	26	21	16	9	3			
VENERE EX 14	1,5	1,1	40	9,3	3,5			74	67	60	52	44	39	34	18	6			
VENERE EX 18	2	1,5	50	11,5	4,7			90	81	72	64	54	50	45	24	8			
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~
ASTRA EX 12	405	328	328	733	733	5,2	9	9	14,2	14,2
ASTRA EX 20	550	368	368	918	918	7,3	10,9	10,9	18,2	18,2
ASTRA EX 28	715	448	408	1163	1123	9,3	14,7	12,8	24	22,1
ASTRA EX 34	822	-	448	-	1270	10,6	-	14,7	-	25,3
VENERE EX 9	391	328	328	719	719	4,9	9	9	13,9	13,9
VENERE EX 14	495	368	368	863	863	6,3	10,9	10,9	17,2	17,2
VENERE EX 18	585	448	408	1033	993	7,4	14,7	12,8	22,1	20,2
VENERE EX 27	806	-	448	-	1254	10,2	-	14,7	-	24,9

