

## ASTRA - VENERE



### Applications

Raising water from deep wells and tanks, civil and industrial raising systems, rain and running irrigation, for fighting systems and aqueducts.

### Features

- Multistage centrifugal electric submersible pumps for 4" wells.
- External pump case, head, suction, shaft, impellers and diffusers are in stainless steel.
- The check valve is in stainless steel and is fitted inside the head.
- Motor coupling meets Nema standards.

### Motor

- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Insulation in F class.
- IP 68 protection.
- Working voltage: single-phase 230 V; three-phase 400 V.
- The electric motor is cooled by non toxic non polluting liquid.

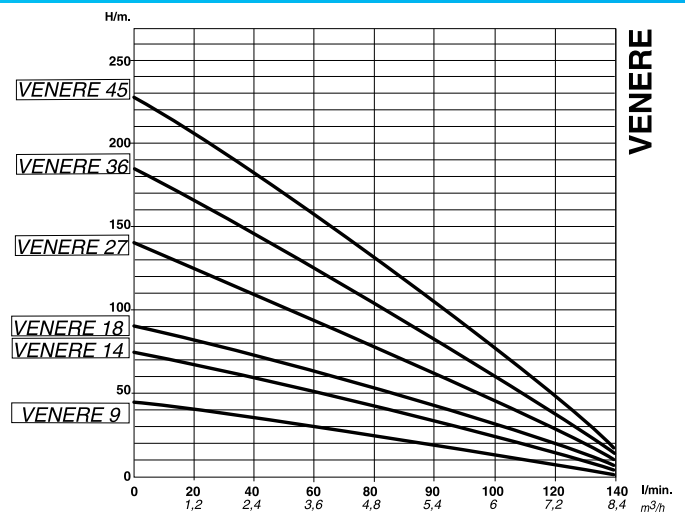
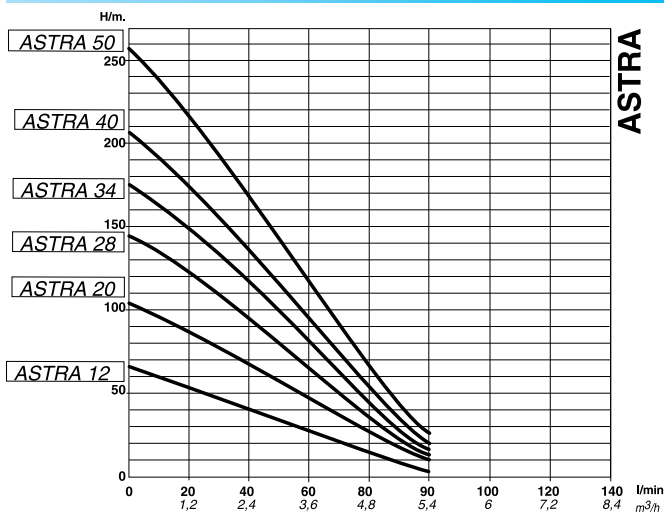
### Operating conditions

- Pumped liquid: clean water, non aggressive, without solid particles.
- The pump should never operate in dry conditions.
- Pump body always completely submerged.
- Water temperature: from 5 °C to 30 °C.
- Vertical operating position.
- Well or tank protected against freezing.
- Maximum immersion depth: 120 m.
- Maximum number of starts per hour: 20.

## Specifications

Pump type	Motor		Cap. MFVL 450	Max current		Outlet Ø	Flow rate											
	HP	kW		M. 230V	T. 400V		l/min m <sup>3</sup> /h	0	20	40	60	80	90	100	120	140		
								0	1,2	2,4	3,6	4,8	5,4	6	7,2	8,4		
ASTRA 12	1	0,75	30	5,3	1,8	1" 1/4 Manometric head (meters)	66	53	41	29	15	6						
ASTRA 20	1,5	1,1	40	9	3,3		103	88	68	48	25	10						
ASTRA 28	2	1,5	50	11,4	4,7		144	123	95	67	35	14						
ASTRA 34	3	2,2	60	16	5,3		175	150	116	82	42	17						
ASTRA 40	4	3	—	—	7,6		206	176	136	96	50	20						
ASTRA 50	5,5	4	—	—	10,3		257	220	170	120	62	25						
VENERE 9	1	0,75	30	6,3	1,9		45	41	35	29	23	19	16	9	3			
VENERE 14	1,5	1,1	40	9,3	3,5		74	67	60	52	44	39	34	18	6			
VENERE 18	2	1,5	50	11,5	4,7		90	81	72	64	54	47	41	21	8			
VENERE 27	3	2,2	60	17,4	5,5		140	124	108	94	74	65	56	29	10			
VENERE 36	4	3	—	—	8,9		182	162	138	113	90	80	70	41	13			
VENERE 45	5,5	4	—	—	10,5		228	202	172	142	112	100	88	52	16			

## Performance curves



## Dimensions and weights

Pump type	Dimensions				Weight		
	B	A		Ø	B	A	
		1x230V	3x400V			1x230V	3x400V
ASTRA 12	405	733	733	95	5,2	14,2	14,2
ASTRA 20	550	919	919	95	7,3	18,2	18,2
ASTRA 28	715	1162	1123	95	9,3	24	22,1
ASTRA 34	822	1300	1269	95	10,6	26,9	25,3
ASTRA 40	932	—	1410	95	12,1	—	28,4
ASTRA 50	1132	—	1678	95	15,6	—	35,1
VENERE 9	391	719	719	95	4,9	13,9	13,9
VENERE 14	495	871	871	95	6,3	17,2	17,2
VENERE 18	585	1041	1001	95	7,4	22,1	20,2
VENERE 27	806	1291	1261	95	10,2	26,5	24,9
VENERE 36	1015	—	1493	95	12,7	—	29
VENERE 45	1232	—	1783	95	15	—	34,5

A Electric pump

B Hydraulic part

