

## METAL

### Applications

Pressurization in domestic systems, pressurization in systems from first collecting reservoirs, wells and tanks, lawn and garden rain irrigation.

### Features

- Multistage monoblock electric submersible pump with the hydraulic part located under the motor which allowed the motor's cooling by the pumped liquid.
- In the single-phase version, the capacitor is installed inside the pump.
- The pump is equipped with 20 m of electric cable H07RN-F.
- Single-phase version with float switch (upon request).
- External pump case, motor case, shaft, impellers and diffusers are in stainless steel.



### 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.
- Electric motor cooled by non toxic non polluting liquid.

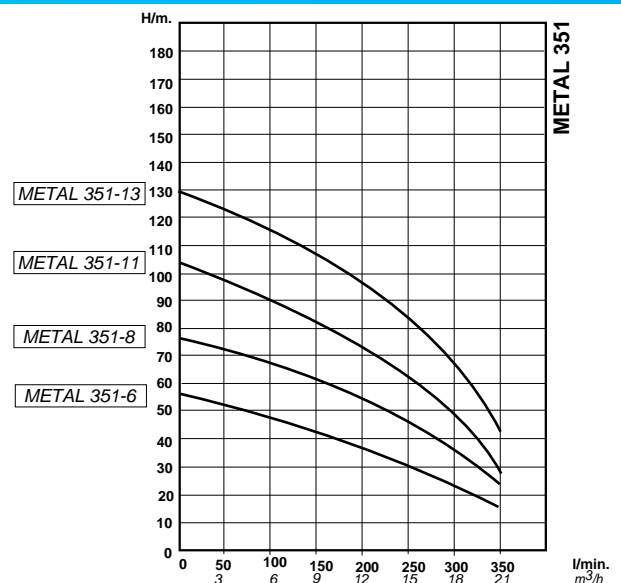
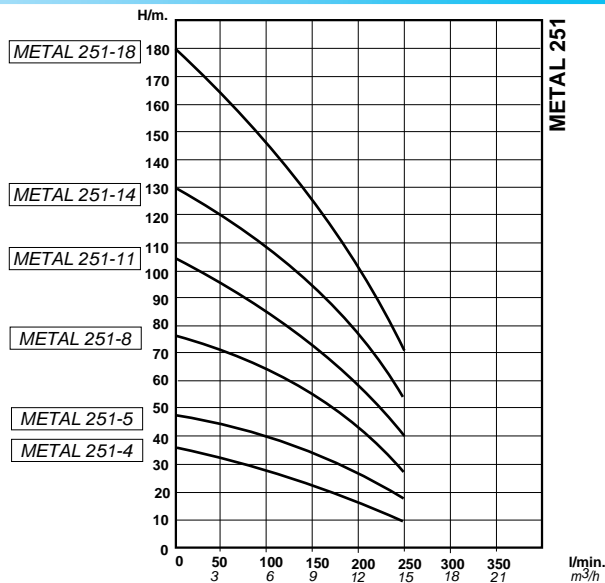
### Operating conditions

- 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: 40 m.
- Maximum number of starts per hour: 20.

## Specifications

Pump type	Motor		Max current		Outlet Ø	Flow rate								
						I/min	0	50	100	150	200	250	300	350
	HP	kW	M. 230V	T. 400V		m <sup>3</sup> /h	0	3	6	9	12	15	18	21
METAL 251 - 4	1,5	1,1	9,3	2,8	1" 1/2 UNI 6083/67 PN 25 DN 32	Manometric head (meters)	36	32	27	22	16	10		
METAL 251 - 5	2	1,5	11,6	3,9			49	45	40	34	26	18		
METAL 251 - 8	3	2,2	—	5,5			77	71	63	55	42	27		
METAL 251 - 11	4	3	—	7			104	95	84	72	56	40		
METAL 251 - 14	5,5	4	—	10			130	120	108	95	75	53		
METAL 251 - 18	7,5	5,5	—	13			180	164	146	126	104	70		
METAL 351 - 6	3	2,2	—	5,6	1" 1/2	Manometric head (meters)	56	53	48	43	38	33	25	16
METAL 351 - 8	4	3	—	7	78		73	67	61	54	47	38	23	
METAL 351 - 11	5,5	4	—	10,5	104		98	90	81	72	63	50	29	
METAL 351 - 13	7,5	5,5	—	13,3	130		123	115	107	97	86	67	43	

## Performance curves



## Dimensions and weights

Pump type	Dimensions		Weight
	mm		
	H	Ø	kg
METAL 251 - 4	757	140	23,5
METAL 251 - 5	807	140	25,5
METAL 251 - 8	967	140	32
METAL 251 - 11	1111	140	37
METAL 251 - 14	1276	140	43
METAL 251 - 18	1496	140	52,5
METAL 351 - 6	951	140	31
METAL 351 - 8	1030	140	35
METAL 351 - 11	1204	140	40,5
METAL 351 - 13	1360	140	47,5

