

PRODUCT DATA SHEET SUBMERSIBLE PUMPS



Omnigena

3V series

The 3V submersible pumps, with centrifugal design of the hydraulic part, are designed for pumping clean, cold, fresh water from deep boreholes and other reservoirs.

FEATURES

- Can be installed in manhole pipe with internal diameter from 85 mm, reducing investment costs
- In the single-phase version of the WK, a capacitor is built into the motor, which makes for easy electrical connection
- All parts of the pump that come into contact with water are made of stainless materials
- Thermal protection built into the winding, which protects the motor against overheating (single-phase version WK)
- Three-wire power cable for the 230V version with integrated capacitor and four-wire for the 400V version*

*Depending on individual requirements, we can attach an additional cable of the appropriate core diameter and length (multiples of 5m) to the factory cable using a hermetic connector. We provide a guarantee for the completed connector.



TECHNICAL DATA

Max. water temperature	35°C
Max. immersion depth	50 m
Working position	vertical
Length of power cable	20 m
Min. cooling flow	0.08 m/s
Max. number of starts	20/hour
Degree of protection	IP 68
Motor speed	2850 rpm
Insulation class	B

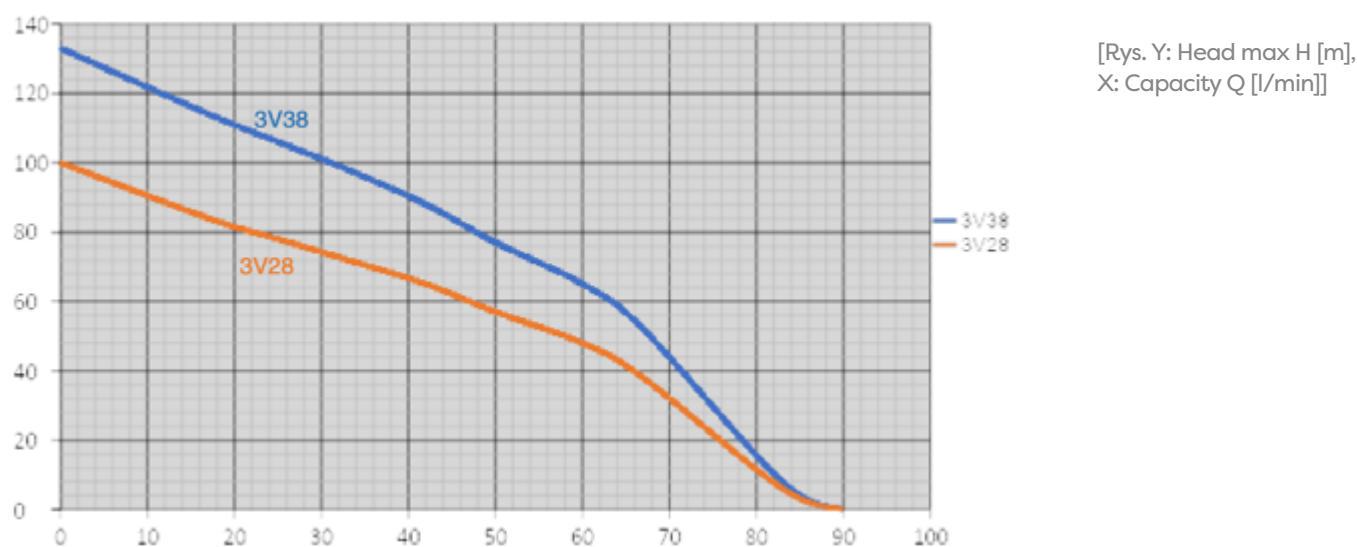
MATERIALS

Pump housing	stainless steel
Pressure/suction port	brass
Cable sheath	stainless steel
Mechanical gland	silicon carbide/coal
Rotors and diffusers	noryl
Pump shaft	stainless steel
Inlet sieve	stainless steel
Clutch	stainless steel

TABLE AND GRAPH OF PARAMETERS

Pump model	Q max Capacity [l/min]	H max Head max [m]	P Motor power [kW]	U Voltage [V]	I Current [A]	C Capacitor [μF]	COS φ	RP-Ø Discharge outlet [inch]	H Unit height [mm]	A Diameter of the aggregate [mm]	Weight aggregate [kg]
3V28	90	100	1.1	230	7.7	35	0.93	1¼"	1532	75	17.8
				400	2.2	-	0.85				
3V38	90	133	1.5	230	10.1	45	0.93	1¼"	1907	75	21
				400	5.2	-	0.85				

Depending on the motor selected, the Weight and Height of the complete pump unit will change.



Model	Power motor (kW)	Capacity (Q)										
		m ³ /h	0	1	1.5	2	2.5	3	3.5	4	5	5.4
3V28	1.1	l/min	0	17	25	33	42	50	60	67	83	90
		H(m)	100	84	78	72	65	57	48	38	6	0
3V38	1.5	H(m)	133	114	106	98	88	77	65	52	8	0

The manufacturer reserves the right to make design and colour changes to the product at any time without prior notice. Photographs, drawings and diagrams are for illustrative purposes only. Verification of product parameters was carried out on a selected batch. Depending on the production batch, these parameters may vary. Before purchasing the product, please check the parameters of the specific unit on the nameplate. The specified parameters are obtained at the unit output without taking into account external factors, e.g. in pumps - resistance of the discharge and suction installation. The unit parameters were obtained under laboratory conditions. Under operating conditions, there may be a difference of +/- 10 % from that indicated on the nameplate of the individual unit. The maximum motor power quoted is the power output at the motor shaft. Version 08/2022.