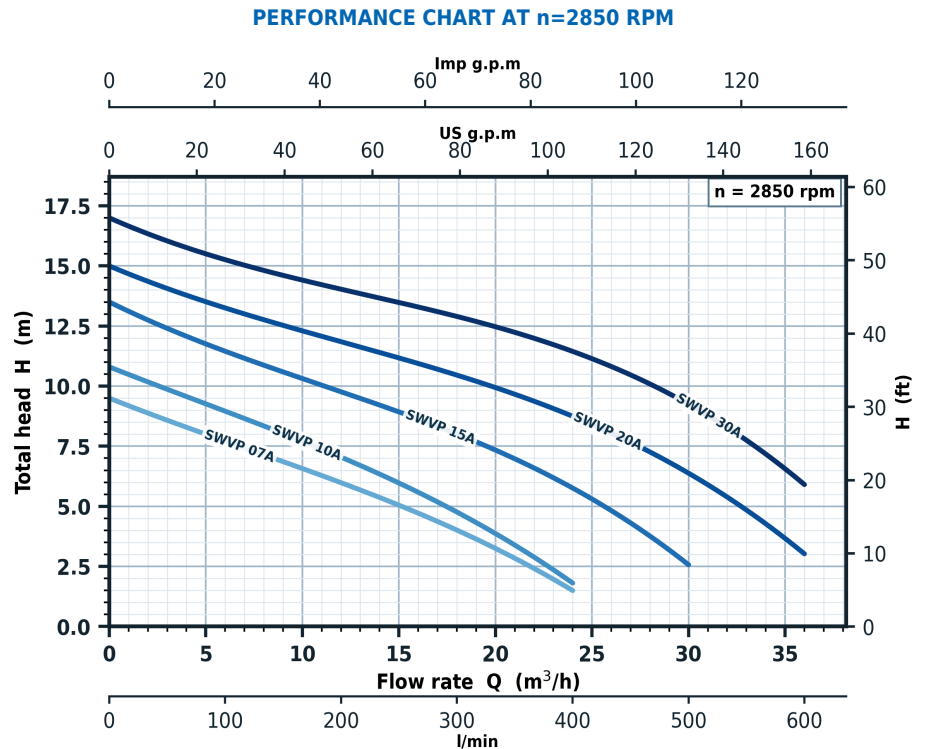


SATTE SWVP

Vertical Submersible Sewage Pump



Curves show the published flow range for each model. Clean water at 20 C, tolerances to ISO 9906 Annex A.

Typical Applications

- Site and flood-water removal where the liquid carries silt and soft solids.
- Emptying of collection traps, holding tanks and shallow sumps.
- Discharge of domestic waste water from below-sewer-level fixtures.
- Low-lift transfer duties in commercial and light industrial premises.
- Agricultural yard washings and slurry channel drainage.

Operating Conditions

- Dirty water not chemically aggressive towards the pump materials.
- Liquid temperature to +35 C; maximum ambient temperature +40 C.
- Maximum immersion depth 8 m; two-pole induction motor at 2850 rpm.
- Motor protection IP68, insulation class B, continuous service S1.
- Built-in thermal protector; float switch available on automatic versions.
- Vertical discharge with 35 mm free solids passage.
- Single-phase to 2.2 kW; three-phase 380 V / 50 Hz to special order.

Materials of Construction

- **Pump body:** Cast iron
- **Impeller:** Cast iron, semi-open vortex
- **Mechanical seal:** Silicon carbide / graphite
- **Motor housing:** Cast iron
- **Shaft:** Stainless steel AISI 420
- **Cable:** 8 m power cable

SATTE SWVP Technical Data

Technical Data

	Motor		Voltage	Current (A)		m	m ³ /h		Inch	kg	mm
Model	kW	HP	Supply	In	Ist	Max H	Max Q	rpm	DN	Weight	L x W x H
SWVP 07A	0.55	0.75	1~ 220-240 V	5.3	24	9.5	24	2850	2"	16.5	275x200x470
SWVP 10A	0.75	1.0	1~ 220-240 V	8.7	39	10.8	24	2850	2"	17.5	275x200x480
SWVP 15A	1.1	1.5	1~ 220-240 V	8.3	37	13.5	30	2850	2"	19.5	275x200x500
SWVP 20A	1.5	2.0	1~ 220-240 V	10.5	47	15.0	36	2850	2"	20.5	275x200x520
SWVP 30A	2.2	3.0	1~ 220-240 V	13.0	58	17.0	36	2850	2"	22.5	275x200x540

Head-flow data is the published performance of the series, tested on clean water at 20 C at 2850 rpm. Tolerances to ISO 9906 Annex A. Maximum head is the head at zero flow; maximum flow is the highest published flow for the model.

Currents are calculated nominal values for a two-pole motor (single phase at 230 V, three phase at 400 V). In is the full-load running current and Ist the direct-on-line starting current. Confirm against the motor nameplate before sizing cable, starter or overload.

Select the duty point within the published flow range. Operating far to the right of the range overloads the motor; operating far to the left causes heat build-up in the pump.

Dimensions are pump overall length x width x height in millimetres, as published for the series. Net weight is for the pump with standard motor and cable. Currents shown are the published full-load values where available.

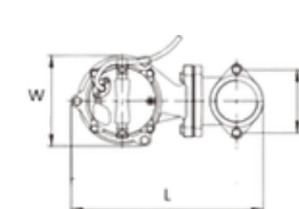
Performance Table

Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

	Motor					Q (m ³ /h)			
Model	kW	HP	0	6	12	18	24	30	36
SWVP 07A	0.55	0.75	9.5	7.7	6.0	4.0	1.5		
SWVP 10A	0.75	1.0	10.8	9.0	7.0	4.8	1.8		
SWVP 15A	1.1	1.5	13.5	11.6	9.8	7.8	6.0	2.5	
SWVP 20A	1.5	2.0	15.0	13.0	12.0	10.5	8.5	6.5	3.0
SWVP 30A	2.2	3.0	17.0	15.0	14.0	13.0	11.5	9.0	6.0

Blank cells indicate flows outside the published range for that model.
Solids handling: Suspended solids to 35 mm. Discharge connection: 2".

Dimensions



- L** overall length
- W** overall width
- H** overall height

Dimensioned outline for the series. Per-model overall dimensions are tabulated above. Certified drawings are available on request for final design.

