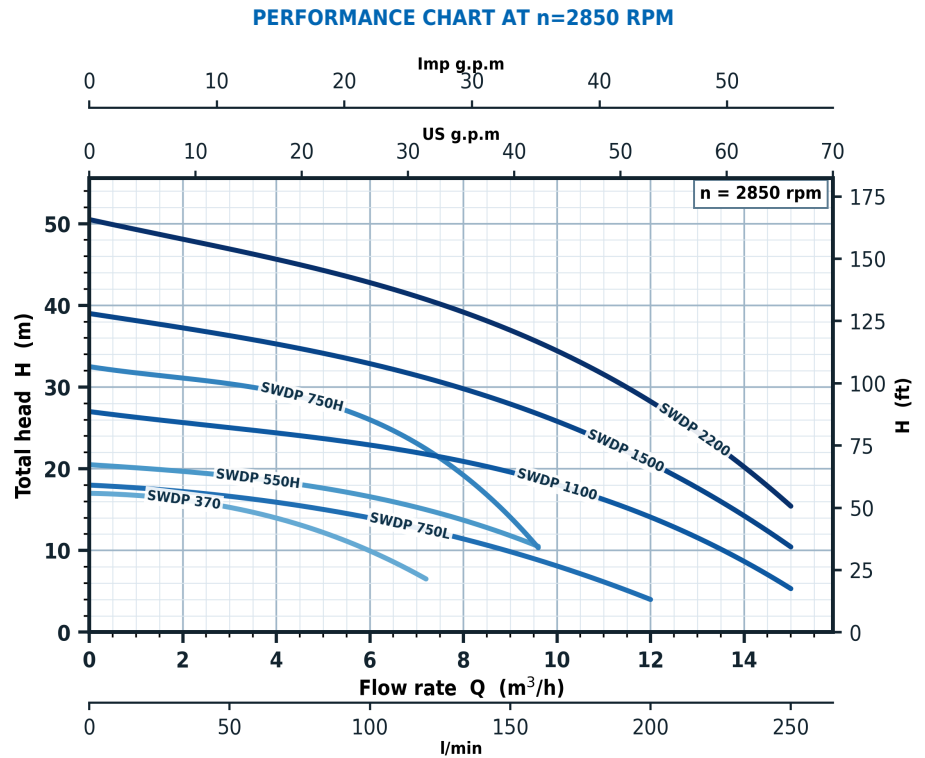


SATTE SWDP

Submersible Drainage Pump



Typical Applications

- Basement, pit and lift-shaft drainage; removal of accumulated rainwater and seepage.
- Construction dewatering: foundation excavations, trenches and shallow sumps.
- Water transfer between tanks, and emptying of ponds, fountains and swimming pools.
- Agricultural and garden duties: shallow-well transfer and small-scale irrigation feed.
- Standby flood-water removal in commercial and residential property.

Operating Conditions

- Clean or lightly contaminated water, free of abrasive particles and long fibres.
- Liquid temperature to +40 C; maximum ambient temperature +40 C.
- Maximum immersion depth 5 m; the pump must remain fully submerged in operation.
- Motor totally enclosed, oil-filled, protection IP68, insulation class B.
- Built-in thermal overload protector; continuous duty S1 when submerged.
- Single-phase models are supplied with capacitor and 8 m power cable.
- Multistage B models are for higher head duties at moderate flow.

Materials of Construction

- **Pump body:** Cast iron
- **Impeller:** Cast iron, closed
- **Mechanical seal:** Ceramic / graphite, oil chamber
- **Motor housing:** Cast iron
- **Shaft:** Stainless steel AISI 420
- **Cable:** 8 m power cable

SATTE SWDP 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
SWDP 370	0.37	0.5	1~ 220-240 V	2.8	13	17.0	7	2850	1"	9	190x150x390
SWDP 550H	0.55	0.75	1~ 220-240 V	4.5	20	20.5	10	2850	1"	12	210x160x415
SWDP 750H	0.75	1.0	1~ 220-240 V	6.3	28	32.5	10	2850	1"	14	225x165x420
SWDP 750L	0.75	1.0	1~ 220-240 V	6.1	27	18.0	12	2850	2"	13	225x180x430
SWDP 1100	1.1	1.5	1~ 220-240 V	2.8	13	27.0	15	2850	2"	22	265x195x550
SWDP 1500	1.5	2.0	1~ 220-240 V	4.5	20	39.0	15	2850	2"	27	265x195x610
SWDP 2200	2.2	3.0	1~ 220-240 V	6.1	27	50.5	15	2850	2"	35	265x195x670

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.

CURVE BASIS: for models without a published tabulated curve, the head-flow line is interpolated between the published shut-off head and the rated duty point. Confirm against the manufacturer before order.

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

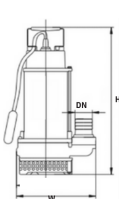
Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

	Motor						Q (m ³ /h)				
Model	kW	HP	0	2	3	4	6	8	9	10	15
SWDP 370	0.37	0.5	17.0	16.2	15.2	13.8	10.0				
SWDP 550H	0.55	0.75	20.5	19.7	19.1	18.4	16.5	13.7	11.8		
SWDP 750H	0.75	1.0	32.5	31.3	30.5	29.5	25.5	19.5	14.0		
SWDP 750L	0.75	1.0	18.0	17.2	16.6	15.9	14.0	11.4	9.8	8.1	
SWDP 1100	1.1	1.5	27.0	25.3	24.5	24.0	23.0	21.0	20.0	17.8	5.5
SWDP 1500	1.5	2.0	39.0	37.0	36.0	35.0	33.0	29.7	28.0	25.5	10.5
SWDP 2200	2.2	3.0	50.5	47.8	46.5	45.3	43.0	39.0	37.0	34.0	15.5

Blank cells indicate flows outside the published range for that model.

Solids handling: Suspended solids to 5 mm. Discharge connection: 1" - 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.

SATTE SWDP Exploded View

Exploded View

Component breakdown for the series, for identification of parts when ordering spares. Item numbers correspond to the manufacturer parts list; quote the SATTE model and the item number when requesting spares.

