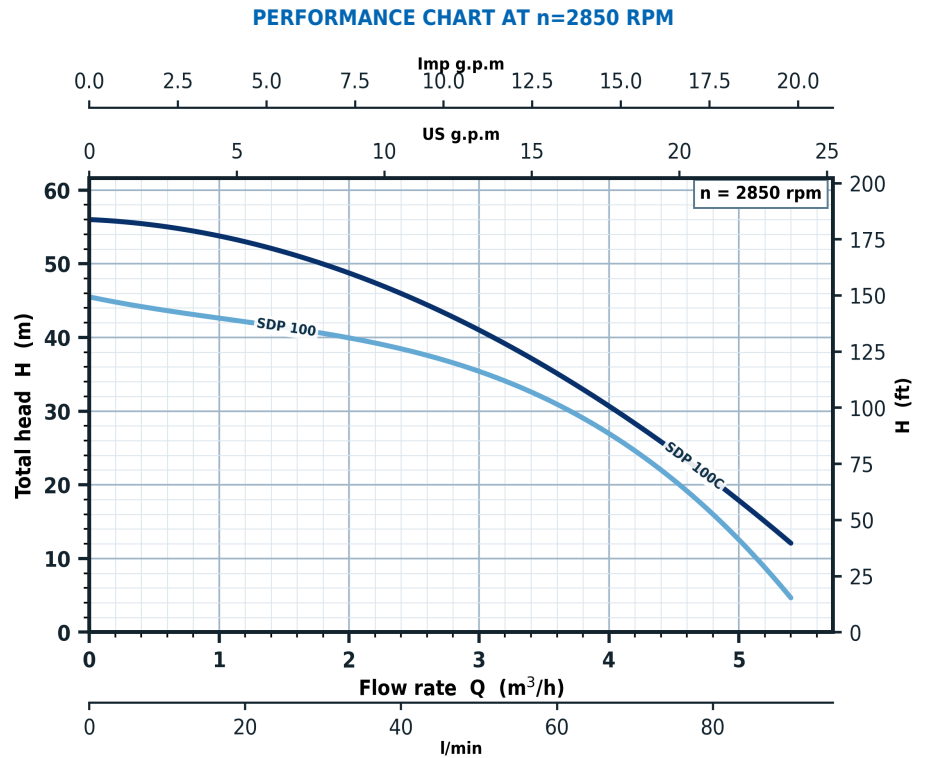


SATTE SDP 100

Multistage Centrifugal Pump



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

Typical Applications

- Water distribution systems combined with small to medium pressure units.
- Liquid transfer between tanks, cisterns and storage vessels.
- Irrigation of gardens and small agricultural plots.
- Domestic and civil water supply where steady pressure is required.
- Booster duty on gravity-fed supplies in low-rise buildings.

Operating Conditions

- Clean water and non-corrosive liquids that do not attack the pump materials.
- Liquid temperature to +60 C; maximum ambient temperature +40 C.
- Total suction lift up to 8 m.
- Two-pole induction motor, 2850 rpm, insulation class B, protection IP44.
- Continuous service S1 with thermal protector on single-phase models.
- Install in a covered or enclosed space, protected from harsh weather.
- Fill the casing and suction line before starting.

Materials of Construction

- **Pump body:** Stainless steel AISI 304
- **Motor housing:** Aluminium
- **Motor shaft:** Stainless steel
- **Pump support:** Aluminium
- **Impeller:** Techno-polymer
- **Mechanical seal:** Ceramic / graphite

SATTE SDP 100 Technical Data

Technical Data

Motor			Voltage	Current (A)		m	m3/h	Inch		kg	mm
Model	kW	HP	Supply	In	Ist	Max H	Max Q	rpm	DN	Weight	L x W x H
SDP 100	0.75	1.0	1~ 220-240 V	6.0	27	45.5	5	2850	1"x1"	11	415x220x232
SDP 100C	0.9	1.2	1~ 220-240 V	7.2	33	56.0	5	2850	1"x1"	12.5	439x220x232

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.

SUCTION CONDITIONS: this is a surface-mounted series operating on suction lift. The achievable lift falls as liquid temperature and site altitude increase. At approximately 1,200 m altitude, atmospheric pressure is about 12% below sea level, reducing achievable suction lift by roughly 1.2 m. Keep the suction line short, airtight and fully flooded.

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

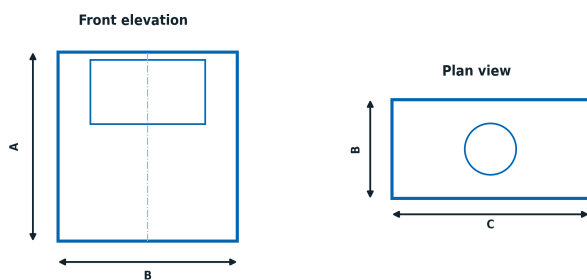
Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

Motor			Q (m ³ /h)								
Model	kW	HP	0	0.6	1.2	1.8	2.4	3.0	3.6	4.8	5.4
SDP 100	0.75	1.0	45.5	44.6	43.0	41.0	38.5	35.0	30.5	18.0	3.6
SDP 100C	0.9	1.2	56.0	55.0	53.0	50.0	46.0	41.0	35.0	20.8	12.0

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

Solids handling: Not suitable for solids-bearing liquids. Discharge connection: 1" x 1".

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 SDP 100 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.

