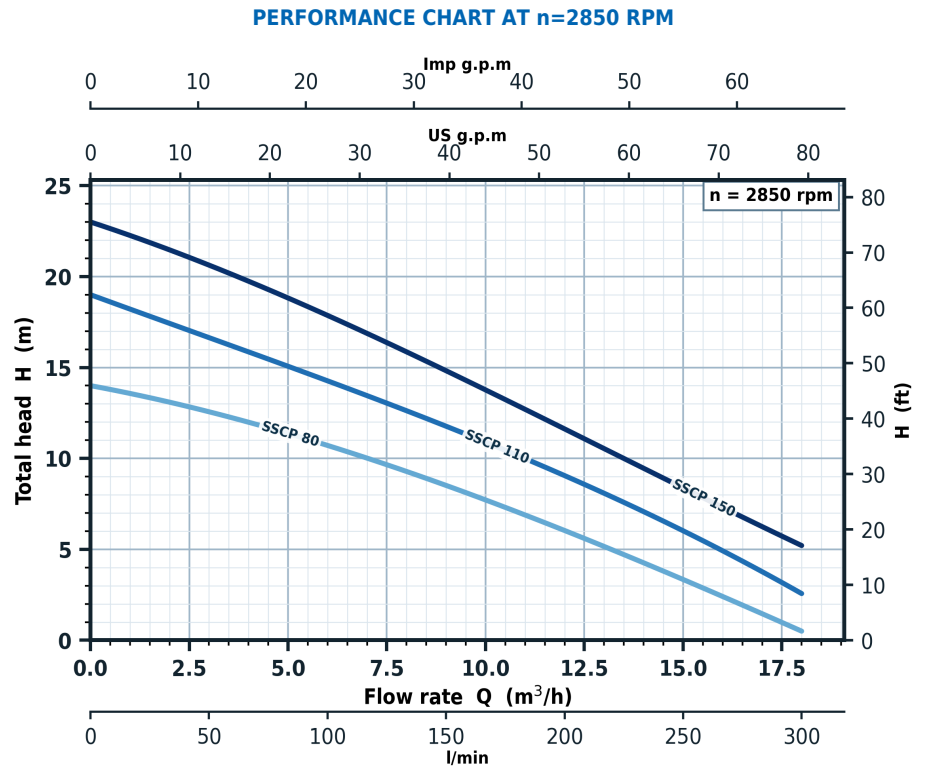


SATTE SSCP Submersible Cutter Pump



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

Typical Applications

- Pressure sewer systems discharging through small-bore rising mains.
- Septic tank and holding tank transfer where rags and fibres are present.
- Commercial kitchen, laundry and washroom waste with high fibre content.
- Basement and outbuilding sewage where gravity discharge is unavailable.
- Camp site, marina and temporary accommodation sewage collection.

Operating Conditions

- Sewage containing fibrous solids; the cutter reduces solids before discharge.
- 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.
- Hardened cutter ring and rotating cutter for fibre reduction.
- Do not run against a closed valve; the cutter requires flow for cooling.
- Free passage 5 mm after shredding; suitable for small-bore pressure mains.

Materials of Construction

- **Pump body:** Cast iron
- **Impeller:** Cast iron with hardened cutter
- **Mechanical seal:** SiC/SiC lower, oil chamber
- **Motor housing:** Cast iron
- **Shaft:** Stainless steel AISI 431
- **Cable:** 8 m power cable

SATTE SSCP 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
SSCP 80	0.8	1.0	1~ 220-240 V	6.4	29	14.0	18	2850	2"	28.5	310x230x640
SSCP 110	1.1	1.5	1~ 220-240 V	8.9	40	19.0	18	2850	2"	30.5	310x230x640
SSCP 150	1.5	2.0	1~ 220-240 V	12.1	54	23.0	18	2850	2"	33	310x230x670

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.

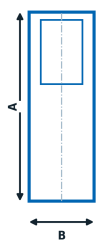
	Motor					Q (m ³ /h)			
Model	kW	HP	0	3	6	9	12	15	18
SSCP 80	0.8	1.0	14.0	12.7	10.7	8.4	6.2	3.3	0.5
SSCP 110	1.1	1.5	19.0	16.8	14.3	11.7	9.0	6.2	2.5
SSCP 150	1.5	2.0	23.0	20.6	17.9	14.8	11.6	8.4	5.2

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

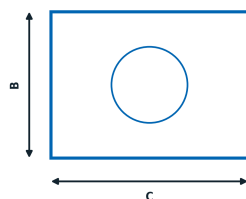
Solids handling: Shredded by cutter to fine slurry. Discharge connection: 2".

Dimensions

Front elevation



Plan view



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.