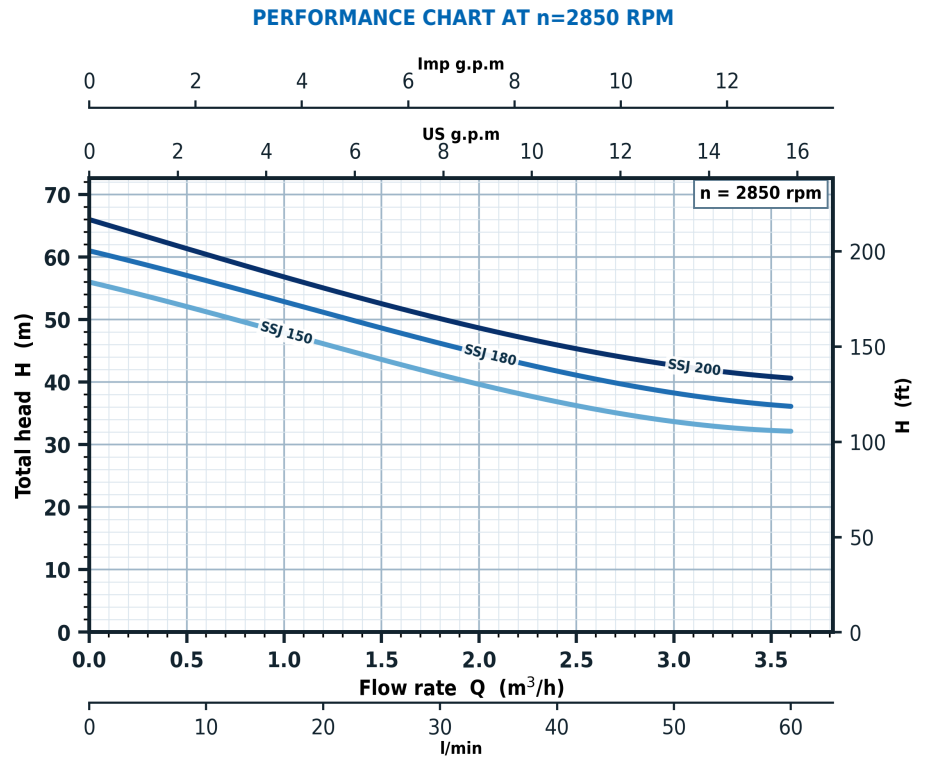


SATTE SSJ Self-Priming Jet Pump



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

Typical Applications

- Water supply from shallow wells, boreholes and sumps with a suction lift.
- Domestic pressure boosting with a pressure vessel and switch.
- Garden irrigation drawing from tanks, streams and rainwater storage.
- Automatic water supply where the pump may lose prime between cycles.
- Light commercial supply where a self-priming characteristic is required.

Operating Conditions

- Clean water, non-flammable and non-explosive, free of solid particles and fibres.
- Liquid temperature to +60 C; maximum ambient temperature +40 C.
- Self-priming after the casing is filled for the first time; a foot valve is recommended.
- Total suction lift up to 9 m at sea level, reducing with altitude.
- The venturi and nozzle assembly must be matched to the duty; do not substitute.
- Motor totally enclosed, fan-cooled, protection IP44, insulation class B.
- Fit a pressure vessel of adequate volume to limit start frequency.

Materials of Construction

- **Pump body:** Cast iron
- **Impeller:** Brass, closed
- **Mechanical seal:** Ceramic / graphite
- **Motor housing:** Aluminium alloy
- **Shaft:** Stainless steel AISI 420
- **Venturi / nozzle:** Brass

SATTE SSJ

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
SSJ 150	0.9	1.2	1~ 220-240 V	7.2	33	56.0	4	2850	1"x1"	23.5	560x250x285
SSJ 180	1.1	1.5	1~ 220-240 V	8.9	40	61.0	4	2850	1 1/4"x1"	24.5	560x250x285
SSJ 200	1.5	2.0	1~ 220-240 V	12.1	54	66.0	4	2850	1 1/2"x1 1/4"	25.5	560x250x285

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

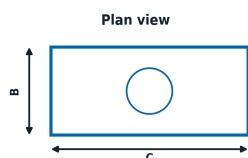
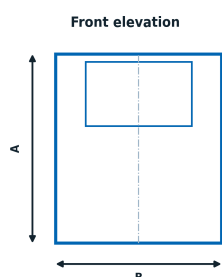
Total head H (m) against flow rate Q (m³/h) at 2850 rpm, on clean water at 20 C. Motor power P2 is the standard motor rating for each model.

Motor			Q (m ³ /h)						
Model	kW	HP	0	0.6	1.2	1.8	2.4	3	3.6
SSJ 150	0.9	1.2	56.0	52.0	46.0	41.0	37.0	34.0	32.0
SSJ 180	1.1	1.5	61.0	57.0	51.0	46.0	42.0	38.5	36.0
SSJ 200	1.5	2.0	66.0	61.0	55.0	50.0	46.0	43.0	40.5

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

Solids handling: Not suitable for solids-bearing liquids. Discharge connection: 1" x 1" to 1 1/4" x 1 1/4".

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.