

SIDE-POWER

Thruster systems



Product Specifications SP 95 Ti IP



Description

Typical boat size:	38 - 55 feet
Tunnel inside diameter:	185mm/7,3"
Propulsion system:	Twin
Available for DC system:	12V or 24V
Weight:	31kg/68lbs.

Ignition Protected Features:

- Certified and individually tested to ISO 8846 Ignition Protected standards
- Water Proof (not for fully submerged mounting due to corrosion of metal parts)
- Stainless cable seals
- Secondary overheat switch secures general temperature in housing
- Rugged plastic housing in V0 self extinguishing material
- Supplied with 100 cm/39.4 in main power cables and bulkhead mount terminals for easy and safe hook up of power supply
- Supplied with 10 m/32.8 ft control cable with connector for connection outside of ignition protection area

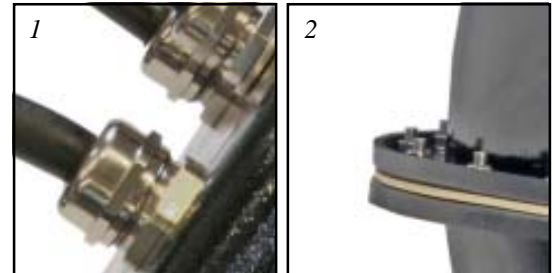
The SP95Ti IP is the most powerful thruster available in the popular \varnothing 185mm tunnel diameter and thereby very popular for boats where a maximum thrust in a compact tunnel is necessary. The SP 95 Ti IP includes all the important and unique Side-Power features and qualities - why settle for less.

Easy and safe to install:

- Pre-fitted main power cables and termination terminals to fasten on a bulkhead nearby is included. Provides safe and easy power connection.
- Plug and go control wiring.
- Fast, easy and safe fitting of propeller with lock-nut as opposed to difficult and unreliable set-screw fastening.
- Self aligning drilling template available for OEM customers.
- All sharp edges removed to avoid installers getting injuries.

1. Robust stainless cable seals ensures troublefree electrical connections

2. Ignition protected housing still retains serviceability for internal components



Gearleg:

- Seawater resistant bronze, CNC machined in one process to ensure 100% correct tolerances, angles and measurements.
- Oil filled with header tank and breathing to ensure long lifetime and no contamination of oil.
- Marine grade seals with protective lip and mechanically protected by special propeller hub design. Hardened and ground precision spiro-conical gears.
- Propeller shaft with double ball bearings fitted in correct tolerances.
- Driveshaft with ball bearing and special sleeve bearing in correct tolerances.
- Connection between motor and driveshaft by flexible coupler.
- Symmetrical 4 bladed composite kaplan propeller.
- Zinc anode protection directly on gearleg, easy to access and change.

Performance and specifications at one tunnel diameter depth*:

	at 10,5V/21,0V	at 12,0V/24,0V
Thrust	95kg/209bs.	< 114kg/251lbs.
Output power	6,0 kW/8Hp	< 7,8kw/10,3Hp
Current draw	680/330A	820A/400A
Continuous run time (20°C):	3 min	>2,4min
Approx. long term run time:	8 % of time	5 % of time
Minimum battery CCA rating	700/350 by DIN or 1260/630 by SAE/BCI	
Side-Power fuse size	ANL500/ANL325	

Notes !

* Actual performances, current consumption etc. will vary for each installation depending on many factors. Specifications here given at one tunnel diameter depth and with voltage at thruster as shown. If you install deeper the thrust will be more as well as the current consumption, and the running time will be reduced. Electromotors power and efficiency tolerances are +/- 6%.



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Measurements ref. mm / inch	SP95 Ti IP
A	340mm / 13,38"
B	256mm / 10,08"
C	200mm / 7,87"
D	337mm / 13,3"
E	ø300mm / 11,8"
F	ø200mm / 7,84"
G	6x ø10,5mm / 0,41"
H	ø129mm / 5,08"
Inside tunnel dia.	185mm / 7,28"
Max. stern thickness	54mm / 2,13"
Motor output	6 KW / 8 HP
Voltage	12 / 24 Volt

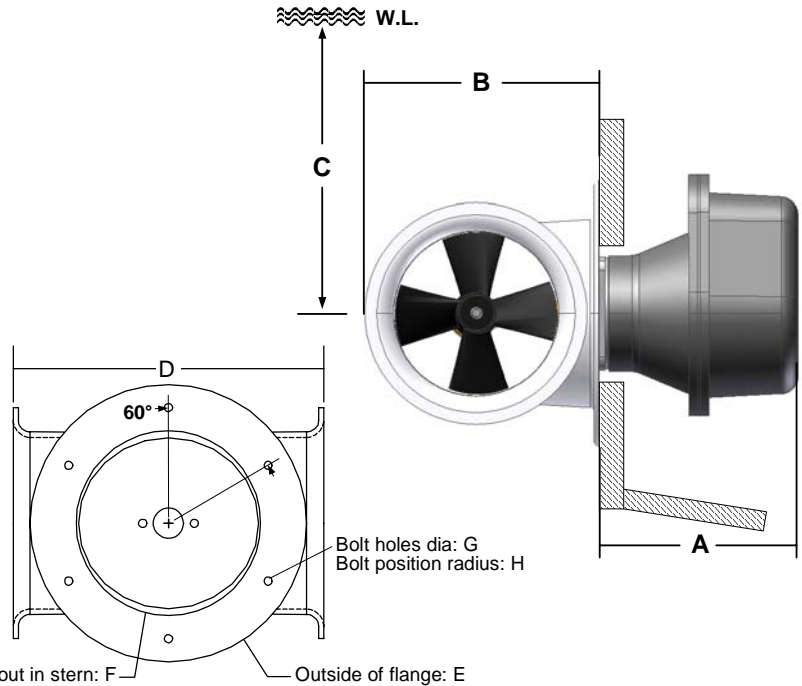


Table for selection of main cable, battery, fuse and main-switch sizes.			up to 7m total + & -		7 - 14m total + & -		14 - 21m total + & -		21 - 28m total + & -		28 - 35m total + & -		36 - 45m total + & -	
Model	Voltage	Current draw	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by Din	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by Din	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by DIN
SP 95 T SP 125 T	12 V	680 A	70 mm ² OO+	750 CCA Din	105 mm ² OOOO	750 CCA Din	150 mm ² 2xOOO	750 CCA Din	175 mm ² 2xOOOO	750 CCA Din	N / A		N / A	
	12V Extr. batt *	400 A	N / A		70 mm ² OO+	350 CCA Din	95 mm ² OOO+	350 CCA Din	120 mm ² OOOO+	350 CCA Din	150 mm ² 2xOOO	350 CCA Din	180 mm ² 2xOOOO	350 CCA Din
	24 V	340 A	50 mm ² O	400 CCA Din	50 mm ² O	400 CCA Din	70 mm ² OO+	400 CCA Din	95 mm ² OOO+	400 CCA Din	120 mm ² OOOO+	450 CCA Din	150 mm ² 2xOOO	450 CCA Din

Safety features on thruster (see separate sheet for control panels):

- Forced shut-down by overheat sensor in motor
- All internal leads with extra insulation of webbed silicon increase resistance to heat and mechanical wear. Connectors have positive locking so that you have to pull by the insulator to release, can not be pulled off by the wires or loosen by themselves. Self extinguishing solenoid cover.
- IPC Standard electronic control box for protection against:
 - direct drive direction change
 - unique, patented protection of solenoid from extra wear and damages in low voltage situations for example caused by drained or damaged batteries as well as "auto-stop" without the need for the skipper to shut down the main switch immediately to stop the thruster in case of a solenoid lock-in *
 - auto-stop if control signal is continuous for more than 3 minutes to protect against potential short circuit in control cables.

Notes !

* New patented safety features in the thruster controlbox will be available in 2005 model year units.

This document may contain typographical errors, to which Sleipner Motor assumes no responsibility.



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