

JOHNSON- SEA-LINK I & II GENERAL SPECIFICATIONS

A. CLASSIFICATION

Manned Submersible by the American Bureau of Shipping

B. DIMENSIONS

1. OVERALL

- a. Length 27' (8.23 m)
- b. Beam 9' 9" (2.78 m)
- c. Height 10' 10.9" (3.07 m)
- d. Draft 7' 6.75" (2.3 m)
- e. Weight 2800 lbs. (12727 kg)
- f. Payload 1,000 lbs. (453 kg)
- g. Gross Weight 29,000 lbs. (13181 kg)

2. PILOT SPHERE

- a. Inside Diameter 57.8" (146.81 cm)
- b. Hull Thickness 5.250" (13.33 cm)
- c. Hatch Opening 17.5" diameter (44.5 cm)

3. AFT OBSERVATION COMPARTMENT (AOC)

- a. Length 97.50" (2.47 m)
- b. Internal Diameter 43.90" (1.11 m)
- c. Hull Thickness
 - (1) Side Wall 3.30" (8.38 cm)
 - (2) Heads 2.281" (5.79 cm)
- d. Side Ports 8.10" dia. x 3.85" thick
(20.57 cm x 8.77 cm)
- e. Manway Opening 20" diameter (50.8 cm)

C. POWER

1. BATTERY

- a. Fourteen 2 VDC EXIDE E 110W-33 lead-acid Batteries
- b. 1760 Ampere-hours (49.2 KWH)
- c. Oil compensated (25 gal. mineral oil)

2. RESERVE BATTERY

- a. Fourteen 2 UDC EXIDE 75L-5 lead acid batteries
- b. 150 Ampere-hours (4.2 KWH)
- c. Oil compensated (3 gal. mineral oil)

3. STATIC INVERTER

a. Input

- (1) Voltage 24 to 32 VDC
- (2) Current 4 to 16 Amp.

b. Output

- (1) Voltage 115VAC +5%
- (2) Power 0 to 250 VA
- (3) Frequency 60Hz = .6 Hz

D. PROPULSION

1. Nine Identical Thrusters; 100 lbs. thrust each;
Each reversible

E. OPERATING CHARACTERISTICS

1. DEPTH: 0 - 3000 FSW (914 m.)
2. SPEED

- a. Cruise .75 knots, 2 thrusters
- b. Maximum 1 knot, 4 thrusters

F. LIFE SUPPORT

1. ENDURANCE 480 man hours (20 man days)

2. CARBON DIOXIDE SCRUBBERS

- a. Pilot Sphere and AOC
One Electric Powered each
Two Lung Powered each

3. EMERGENCY BREATHING APPARATUS

- a. Pilot Sphere and AOC
Two Built in Breathing Systems each (BIBS)

4. OXYGEN ANALZER

- a. Pilot Sphere and AOC
 - (1) One Crowcon Gasman II Oxygen Analyzer
 - (2) One Drager Gas Analyzer- hand pump with O2 analyzer tubes

5. CARBON DIOXIDE MONITORS

- a. Pilot Sphere and AOC
 - (1) One Crowcon Safeguard II CO2 monitor
 - (2) One Drager Gas Analyzer - hand pump with CO2 analyzer tubes