

# Submarine Rescue Vehicle (SRV) – LR Class

Forum Energy Technologies (FET) is a world-leading designer and manufacturer of subsea vehicles and tooling. For more than 45 years FET has reliably supported military organisations and naval forces across the globe.

Since 1975 we have pioneered the development of manned submersibles. One previously delivered system includes the NATO Submarine Rescue System (NSRS) which entered service in 2008. NSRS is on constant standby for rescue operation in any part of the world and is specifically packaged for rapid deployment by air transport with its other surface elements.

Our latest SRV system (LR11) completed sea trials in 2021 and was built with full Lloyds class certification. The system was supplied with a Launch & Recovery System, a complete training & after sales support package as well as an ROV System, Simulator, ELSS Pod Skid & Mating Target.

We have successfully supplied defence equipment/services to NATO and the following countries: UK, USA, Australia, Ireland, Norway, Germany, Spain, China, Vietnam, Malaysia, Singapore and South Korea. We are proud to deliver cutting-edge technologies which are at the forefront of the subsea industry and remain the systems of choice by many of the world's military and naval forces.





# Submarine Rescue Vehicle (SRV) - LR Class

#### **Dimensions & Performance**

Max. Operational Depth Rating (m): up to 600 Weight in Air (kg): Under 30,000 Length (mm): 9.700

Width (mm): 3,200 Height (mm): 3.400

(incl. mating skirt) Draught on Surface (m): 2.5 +/- 0.25

Max. Internal Pressure RC (bar g.) 5.0

Rescue Capacity: 18 persons max. (excl. crew) Pilot & Co-pilot & RC Operator Crew:

Main Thrusters: 2 electric propulsors 2 hydraulic side thrusters Auxiliary Thrusters: Incl. swivel from 0° to 90°

(vertical & horizontal direction thrust)

2 hydraulic thrusters, fixed.

Mounted fwd and aft (lateral thrust)

Surface Speed

Forward: 3.5 knots +/- 0.2 knots Aft: 2.5 knots +/- 0.2 knots Cruise: 1.5 +/- 0.2 knots @ 8 hours duration (depending on sea

conditions)

# **Design Code & Classification**

Lloyds Rules and Regulations for the Construction and Classification of Submersible and Diving Systems

Lloyds Register: Code for Lifting Appliances In A Marine Environment

PD5500: Specification for Unfired Fusion Welded Pressure Vessels

The ASME Code for Pressure Vessels for Human Occupancy (used for the design of the acrylic viewports)

Latest code used during contract award

# **Standard Equipment**

Control Modes: Manual & Auto Pilot

Navigation: North seeking gyro compass

Flasher/strobe Pinger locator DVL

Altimeter

Obstacle avoidance sonar Communication: CM & RC intercom system

Deck communications

VHF radio

Underwater telephone Cameras:

6 cameras - Low light, colour

zoom, monochrome

External Lights: 8 LED Internal Lights: **10 LED** 

7 function hybrid controlled Tooling:

manipulator

Low pressure water jet pump Cutter & Pressure Intensifier Ø 38mm wire rope cutter

# **Power**

Battery: - Power train, instrumentation

Battery modules housed in port & stbd

battery pods.

Can be jettisoned in an emergency

Lead acid batteries Battery Emergency: Deck Power Supply

(instrumentation only)

# **Life Support**

Life Support: (Normal): Approx. 12 hours for 20 persons Life Support (Emergency): Approx. 96 hours for 20 persons Atmosphere Monitoring: CM & RC atmosphere monitoring system CO<sup>2</sup> absorbent (normal): Approx. 12 hours for 20 persons

CO<sup>2</sup> absorbent (emergency): Approx. 96 hours for 20 persons Life Support Kits:

20 individual kits containing CO<sup>2</sup> absorbent, rations, life jacket, space blanket, light stick and goggles

# **Exterior Features**

Lift Point (Normal): Main single lift point (for LARS) Lift Point

(Emergency): Double lift point (crane lift) Double soft strops for emergency recovery from

sea bed

Towing Assembly: Fwd & aft tow point

Transfer Under Pressure: Mating to TUP from rear of RC

> or via Dry Mating Skirt External tanks (fwd, mid, aft) 2 external bottles (port & stbd) 4 external bottles (port & stbd)

Oxygen Storage: Trim Weight (roll) Adjustable roll control via port & stbd movement

(hydraulic)

Can be jettisoned in an emergency

### **Pressure Hull**

Air Buoyancy:

Air Storage:

Proof Test Pressure: 1.4 x Max. Operating Depth

Hatches:

Viewports: Acrylic main viewport Conning tower & hatches

#### Submarine Transfer

Max. Angle for Rescue: +/- 45°

#### **Environmental:**

Operational Sea State:

Sea State 5-6 significant wave height 3.9m as per Lloyds Rules Lifting Appliance Marine Environment

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The specification details are illustrative and are for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.







