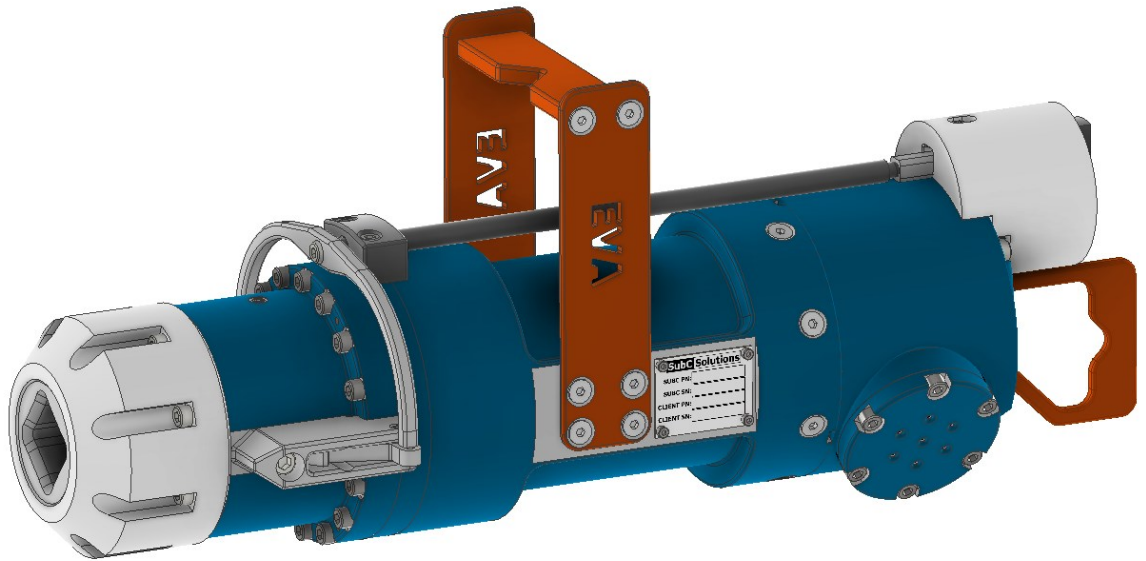


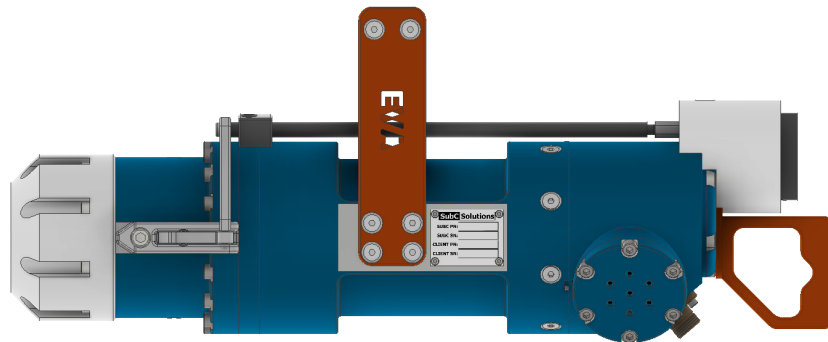
## SUBSEA ELECTRICAL VALVE ACTUATOR ROV 840NM



### Key Features

<b>Robust Design</b>	Designed for long lifetime. Compact size and low weight. API-6A PR 2 qualified and all electronics qualified to API-17F.
<b>ROV Installable</b>	API-17H (ISO 13628-8) class I-IV ROV interface. Interface class type/size can be easily be changed without re-testing and verification.
<b>Flexible Configuration</b>	User configurable speed, acceleration, torque and end positions. Configurable as multiturn, quarter turn or user defined. Manual and auto homing with retained positions after power down.
<b>Failsafe Functionality</b>	Configurable failsafe operation on loss of power and/or communication. <ul style="list-style-type: none"> <li>- Fail safe close</li> <li>- Fail safe open</li> <li>- Fail as is</li> <li>- Fail to configured position</li> </ul>
<b>Low Power Consumption</b>	Battery delivers power boost during valve operation and is trickle charged between valve operations, reducing maximum external supply power demand.
<b>Battery Pack</b>	Battery pack for fail safe functionality. Option without battery and shorter actuator length available on request. Super capacitor option available on request.

# SUBSEA ELECTRICAL VALVE ACTUATOR ROV 840NM



## Technical Data

<b>Operational Depth</b>	3000 m
<b>Temperature Rating</b>	Operational: -5 to +40 °C Storage: -18 to +50 °C Electronics qualification: -18 to +70 °C
<b>Output Speed</b>	Configurable: 0-2 RPM
<b>Valve Configuration</b>	Configurable as: Quarter turn, multiturn or step
<b>Operational torque</b>	0-840Nm nominal torque range 1000Nm maximum torque
<b>Peak torque</b>	Configurable maximum peak torque up to 1000Nm. EVA operation on low torque valves possible with reduced peak torque limit setting to avoid over torque
<b>Holding torque</b>	35Nm (no power applied) Configurable 35-840Nm when powered
<b>Dimensions (W x H x L)</b>	254 x 298 x 712 mm (including rear handle)
<b>Weight</b>	39 kg (Titanium grade 5, dry weight) 59 kg (Stainless steel, dry weight)
<b>Valve Interface</b>	ISO 13628-8 ROV Class I -IV
<b>Communication Interfaces</b>	- SIIS Level 1(4-20mA) - SIIS Level 2 (CANbus) - SIIS Level 3 (Ethernet, Modbus TCP) - RS-232 and RS-485, Modbus RTU
<b>Input Voltage</b>	12 - 30V DC
<b>Battery (Optional)</b>	Li-ion: 48V / 2Ah or 24V / 4Ah Super Capacitor battery available on request
<b>Power Consumption</b>	1W standby, no holding current applied (configurable) Up to 24W maximum (when charging, configurable)
<b>Connector</b>	7 Pins Gisma S10 drymate Others dry-mate and wet-mate available on request

## SUBSEA ELECTRICAL VALVE ACTUATOR ROV 840NM

<b>Configurable Parameters</b>	User configurable actuator main parameters: <ul style="list-style-type: none"> <li>- Rotational speed</li> <li>- Acceleration / Deacceleration</li> <li>- Maximum torque limit</li> <li>- Direction</li> <li>- End positions</li> <li>- Fail safe operation</li> </ul>
<b>Other features</b>	Auto or manual homing functionality to configure end-positions. Actuator position and all configuration parameters is retained on power loss.
<b>Monitoring</b>	Position, valve profile and housekeeping data such as voltages, temperature and battery status. Alarm triggered if valve operation fails to complete.
<b>Applicable design codes and guidelines</b>	API-6A / ISO 10423 API-17H / ISO 13628-8 API-17F / ISO 13628-6
<b>Qualification</b>	API-17F: Q1 (Electronic PCB's) Qualification performed on 230Nm EVA (same design, but one size smaller): API-17F: Q1 Hyperbaric test. API- 6A: PR2, Endurance test, Long lifetime test (2600 cycles with valve load)

### Dimensional

