

## SUBSEA ELECTRICAL VALVE ACTUATOR 1700NM



### 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>Permanent or 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>Communication Interfaces</b>	Battery delivers power boost during valve operation and is trickle charged between valve operations, reducing maximum external supply power demand.
<b>Battery backup</b>	Battery pack for fail safe functionality. Option without battery and shorter actuator length available on request. Super capacitor option available on request.
<b>Low Power Consumption</b>	Optional battery pack delivers power boost during operation and is trickle charged between operations, reducing max. external power load.

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## 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: 0-1 RPM
<b>Valve Configuration</b>	Configurable as: Quarter turn, multiturn or step
<b>Operational torque</b>	0-1700Nm nominal torque range 2000Nm maximum torque
<b>Dimensions (W x H x L)</b>	Ø200 x 650
<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>Fail Safe Functionality (with backup option)</b>	- Fail safe open, close go to position or as-is - Triggered by loss of power, communication or both
<b>Configurable Parameters</b>	User configurable actuator main parameters: - Rotational speed - Acceleration / Deacceleration - Maximum torque limit - Direction - End positions - Fail safe operation
<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