

**PRESS RELEASE**

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**Bosch Rexroth wins the Spotlight On New Technology™ Award from the Offshore Technology Conference (OTC 2020)**



Groundbreaking innovation: The award-winning Subsea Valve Actuator from Bosch Rexroth enables the electrification of Subsea Production Systems not only for the development of greenfields but also for the modernization of brownfields.

**Bosch Rexroth won the Spotlight On New Technology™ Award from the Offshore Technology Conference (OTC 2020) for its High Force and Low Voltage Subsea Valve Actuator (SVA). This groundbreaking innovation enables the implementation of the all-subsea factory in green- as well as in brownfields. The award-winning solution was recognized for its environmentally friendly setup, energy efficiency and functional safety. Featuring a cost-effective modular design with complete redundant drive and safety system, the solution works reliably in operating depths up to 3,000 m.**

Combining the advantages of both electro-mechanical and electro-hydraulic systems in a compact electro-mechanical actuator with hydrostatic drive, the award-winning SVA proves to be a viable alternative to electro-mechanical and conventional hydraulic systems. The SVA provides up to SIL3 safety including condition monitoring, consumes up to 75 percent less energy, and

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is designed for 25 years of operation. With redundant pressure compensation, it can reliably operate in the harsh environment of subsea applications.

Electrification of previously installed subsea production systems has not been a viable option in the past, due to their demand for high-voltage power supplies. The newly designed Bosch Rexroth SVA can provide high forces to actuate the installed valves by using the available low voltage power supply - according to the Subsea Instrumentation Interface Standard (SIIS).

For the exploration of new installations, Rexroth's SVA solution provides a key component to complete the all-subsea factory, qualifying as a compact solution for all subsea actuators that demand a fail-safe closure by springs or high actuation forces. This especially applies to installations where electric actuators have not yet been able to replace conventional hydraulic systems, e.g. for safety-relevant valves up to SIL3 or high forces with limited space and weight available, when operating 7" gate valves or high pressure / high temperatures wells.

Highlights of the winning product include the avoidance of hydraulic leakage into the ocean, increasing productivity with a highly-reliable, safe and precise actuator, as well as new possibilities to expand brownfields with new equipment – without adding new hydraulic or electric power supplies.

In addition, the SVA qualifies as an ideal solution to simplify existing production systems removing the dependency on hydraulic power lines in umbilicals and the associated top-side Hydraulic Power Units (HPU).

With these features, the SVA completes the range of traditional hydraulic and all-electric subsea actuators for subsea control and production systems. Optimized for manufacturing, the system is based on industrial standard components and produced to the highest quality standards, using efficient lean production methods.

As announced by the organizers, the Offshore Technology Conference (OTC 2020) has been postponed until 2021. In these extraordinary times, it is all the more important to keep connecting and engaging: for interested subsea engineers and users Bosch Rexroth offers online training on the new

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Further information is available at: [www.boschrexroth.com/subsea](http://www.boschrexroth.com/subsea)

### **About Bosch Rexroth:**

*As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 32,300 associates generated sales revenue of roughly 6.2 billion euros (\$7.3 billion) in 2018.*

To learn more, please visit [www.boschrexroth-us.com](http://www.boschrexroth-us.com).

### **About Bosch:**

*The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). According to preliminary figures, the company generated sales from operations of 77.9 billion euros (\$92 billion) in 2018. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 69,500 associates in research and development.*

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