PRESS RELEASE

MA20008
03/10/2020

CH2020-3
For Immediate Use

Bosch Rexroth's E-valve. Compact, programmable performance with low pressure drop for ISO8643 Hose Burst Protection

For use on excavator and crane applications

The E-valve, by Bosch Rexroth, offers high-performance and fine proportional control for heavy duty applications like excavators and cranes.

As the market leader in ISO8643 hose burst valves, Bosch Rexroth's innovative E-valve introduction reimagines high performance with unparalleled safety. Perfectly suited from 8 to 40-ton excavators, our new E-valve offers low pressure drop with improved controllability in a standardized, compact package. Additional benefits include quicker work cycle times, the removal of the external hydraulic pilot line, and significant fuel savings.

With electro-hydraulic controlled excavators becoming increasingly sophisticated, the new E-valve is the right product at the right time. By using an electro-proportional pilot stage, our E-valve can control the high-flow metering and speed control of the main stage on load lowering as well as the fine control needed for precise actuator movements. Operated via joystick signal and software algorithms, the E-valve acts as a watchdog in the background, a feature we call "Ghost Mode," ready to take over and close the valve when a hose burst event is detected.

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Packaged in an optimized 420 bar (6000 psi) cast housing, Bosch Rexroth's E-valve is 21% lighter with 46% lower pressure drop and comes in three cylinder connection sizes, ½ inch, ¾ inch and 1 inch SAE code 62 flanges. Furthermore, the new valve guarantees very low hysteresis and peaks of pressure in relief function ensuring reduced stress for the cylinders. One solution to cover a wide range of machines: size 2.5 for flow rates up to 250 liters per minute (66 gpm) and size 5.0 for flow demands up to 500 liters per minute (132 gpm). With electronic operation, special cut spools are no longer required, offering equipment builders the benefits of hardware standardization and market leading performance to ISO8643 standards.

To learn more about Bosch Rexroth, visit www.boschrexroth-us.com.

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.

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:

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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.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse.

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