

Press Release

Proportional throttle valve for higher flow and pressure ranges

Bosch Rexroth offers new on-board digital electronics for improved control quality

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For Immediate Use



The newly developed digital electronics developed by Rexroth offer simplified optimization of hydraulic controller parameters and improved control quality.

Machine manufacturers can now take advantage of hydraulic systems with improved control behavior thanks to Bosch Rexroth's 2-way proportional throttle valves. These cartridge valves are designed for a maximum operating pressure of 6,000 psi (420 bar.) The newly developed onboard electronics enable compensation of decentralized disturbances for improved control quality.

The new 2WFCE cartridge valves are used as throttle valves for increased flow rates or in combination with an external pressure compensator for flow control. For example, in press applications they control rapid traverse and

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press velocity. In plastics processing machines, they control screw speed and injection velocity.

In hydraulics, the trend towards higher pressure ranges has become more important. This enables machine and system manufacturers to use smaller system components to further support the traditional strengths of hydraulics, force density and low space requirements. These requirements were taken into account by Rexroth in the development of the new 2WFCE throttle valves with a maximum operating pressure increase from 315 to 420 bar.

The newly developed digital electronics optimize controller parameters to improve dynamics. The units combine high response sensitivity and improved frequency response with reduced hysteresis. This enables improved control quality and shorter cycle times. Bosch Rexroth calibrates all valves for consistent operation and ease of commissioning.

In case of power failure or cable break, the main stage is automatically switched to a failsafe position.

To read the full data sheet, visit:

http://www.boschrexroth.com/various/utilities/mediadirectory/download/index.jsp?object_nr=RE29403

Or, for more information: www.boschrexroth-us.com/pfcvalves

About Bosch Rexroth

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves 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 to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 31,100 associates generated sales revenue of approximately \$5.99 billion (5.4 billion euros) in 2015. To learn more, please visit www.boschrexroth.com.

About Bosch

Having established a regional presence in 1906 in North America, the Bosch Group employs some 32,500 associates in more than 100 locations, as of December 31, 2016. According to preliminary figures, in 2016 Bosch generated consolidated sales of \$13.7 billion in the U.S.,

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 390,000 associates worldwide (as of December 31, 2016). According to preliminary figures, the company generated sales of 73.1 billion euros (\$80.9 billion) in 2016. 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 industry. 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 create solutions for a connected life, and to improve 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 450 subsidiaries and regional companies in some 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 120 locations across the globe, Bosch employs 59,000 associates in research and development.

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