

PRESS INFORMATION

More efficiency and performance for additional nominal sizes

Manuela Kessler | 17.04.2026 | Lohr am Main / Germany | PI 014/26

Bosch Rexroth expands the range of possible applications for its LC-8X 2-way cartridge valves



Bosch Rexroth is expanding its new LC-8X 2-way cartridge valve to include nominal sizes 80, 100, and 125. This compact series will now be available for even more applications. (Image source: Bosch Rexroth AG)

At IFAT 2026, Bosch Rexroth will introduce the three new nominal sizes 80, 100, and 125 of the LC-8X 2-way cartridge valve. These energy- and cost-efficient logic valves will now also be available for applications with high flow rates. Thanks to their flow-optimized design, pressure losses are significantly reduced compared to the previous series. With an optional operating pressure increased to 450 bar, the series enhances the cost-effectiveness of numerous directional, pressure, and combination functions.

With the new nominal sizes 80, 100, and 125, the Bosch Rexroth LC-8X 2-way cartridge valve is now available for an even wider range of applications. The integrated standard stem seal prevents gap filtration. All valve components are designed for operating pressures up to a maximum of 450 bar. This ensures that tightness and functionality are maintained even after 10 million load cycles at maximum switching power.

More efficiency

The flow-optimized design significantly reduce pressure losses in directional functions compared to the predecessor series LC-6X, nominal sizes 80 and 100, and LC-2X, nominal size 125, while also reducing heat and cooling requirements. A friction-optimized piston and the standard integrated stem seal minimize the risk of internal leakage as well as power loss and reduce energy consumption.

Resources are also used efficiently in packaging: The valves are packaged in shock-resistant round cups made from recycled material.

More standardization

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Standardizing the valve design simplifies project planning, engineering, installation, and maintenance. This lowers process costs, shortens delivery times, and minimizes downtime. The LC-8X is fully compatible with its predecessor models. Existing covers can be reused, with the exception of covers with stroke limitation. This conserves resources and reduces the effort required for modifications or retrofits.

Bosch Rexroth is presenting the LC-8X 2-way cartridge valve in various nominal sizes at IFAT, hall B4, booth 452.

Basic Information 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 and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering 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, around 32,600 associates generated sales revenue of 6.5 billion euros in 2024.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 413,000 associates worldwide (as of December 31, 2025). The company generated sales of 91 billion euros in 2025. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, digitalization, electrification, and artificial intelligence. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in hardware, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture intelligent, user-friendly, and sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 500 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. Bosch employs some 82,000 associates in research and development.

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