

Press Release

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Rexroth Directional Poppet Valve SEC with H Position Guaranteed Safe Switching



The valve that has been optimized by Rexroth with regard to its leakage behavior using most modern simulation methods provides for increased energy efficiency and thus reduces the required cooler performance.

With the new direct operated hydraulic directional poppet valve with solenoid operation of the SEC series, Rexroth simplifies the switching of safety applications. With the current feed of both solenoids, the user is able to switch into an H position for the safe set-up mode, especially in machine tools, plastics processing and die-casting machines as well as presses, and to thus increase the actually useable machine availability. It is thus also suitable for reliable pressure and load holding functions.

Rexroth's 4/3 SEC valve classified according to DIN EN ISO 13849, category 1, guarantees safe switching also in case of longer standstill times under pressure and has proven a service life of at least 10 million switching cycles. Due to the seat valve design, it doesn't need a check valve and saves sandwich plates that have until now been necessary in case optional plug-in valves are used. The construction that has been optimized by Rexroth developers with regard to its leakage behavior using most modern simulation methods provides for increased energy efficiency and thus reduces the required cooler performance. Thus, design engineers can also use machine and system accumulators and units with smaller dimensions.

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The SEC valve size 6 offers three spool positions and four connections. The maximum operating pressure is 420 bar with a volume flow of 20 l/min. The removable solenoid coils can be rotated by 90 degrees and dispose of electrical individual connections. The concealed auxiliary operation allows for the switching of the valve without solenoid excitation.

Bosch Rexroth AG is one of the world's leading specialists in the field of drive and control technologies. Under the brand name of Rexroth the company supplies more than 500,000 customers with tailored solutions for driving, controlling and moving. Bosch Rexroth is a partner for industrial applications and factory automation, mobile applications and using renewable energies. As The Drive & Control Company, Bosch Rexroth develops, produces and sells components and systems in more than 80 countries. In 2008 Bosch Rexroth AG, part of the Bosch Group, achieved sales of around 5.9 billion Euro with 35,300 employees.

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