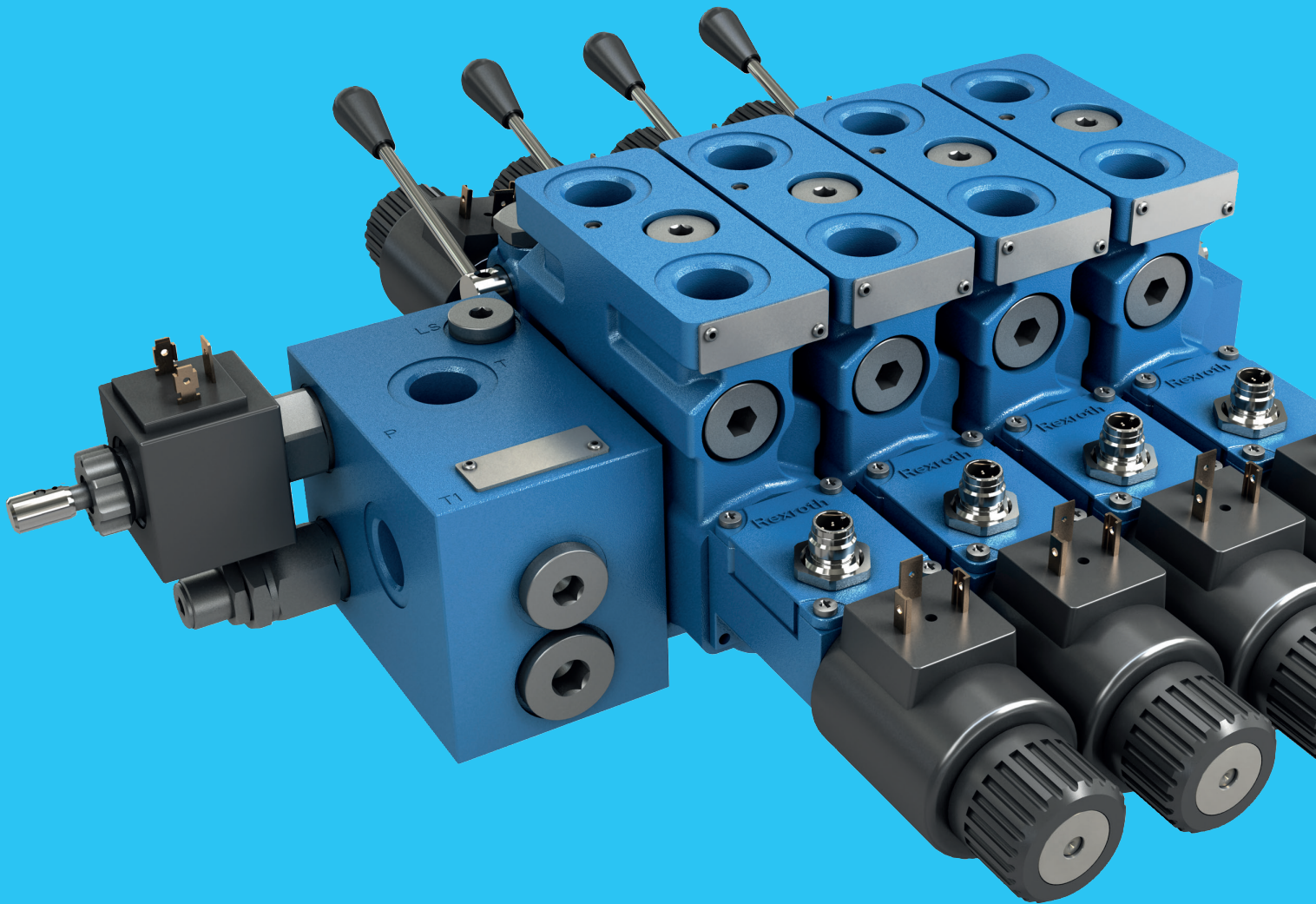


EDC, flow sharing control first!



Lift, rotate, set down, unload and move within the work area in complete safety. We have created EDC so that your machines can perform all these functions simultaneously and in the best possible way. This distributor with modular elements, thanks

to the patented LUDV Flow Sharing system, enables small and medium mobile equipment to manage several movements at the same time therefore guaranteeing remarkable energy savings.

We Move. You Win.

rexroth
A Bosch Company

EDC is the innovative size 06 directional control valve with flow sharing system (LUDV concept)

A versatile solution for hydraulic circuits on mobile applications

The EDC modular elements are direct acting, solenoid operated directional spools and integrate on-off or proportional flow sharing control. Combined in a block, these elements can simultaneously activate a number of actuators – both motors or cylinders – by proportionally distributing the available flow at the operator-selected speeds, regardless the working pressures. All of these simultaneous movements will work at the same reciprocal speed, also in case of a flow shortage, therefore solving the problems caused by flow saturation in load-sensing circuits. **The flow range for each valve element can be realized by selecting the appropriate spool size.** Thanks to its compact design (size 6), this flow sharing technology system can also simplify the hydraulic circuits and provide users with additional, important benefits in terms of energy saving. These features make it an ideal solution for any mobile application requiring continuous movements.

EDC equipped with the spool positioning sensor

Furthermore, EDC's range of functionalities can be enhanced by integrating a complementary optional spool positioning sensor (SPM), also available in Bosch Rexroth's portfolio. In fact, due to the worldwide increase of safety regulations, one of the requirements that workers must meet is that to monitor the spool position of hydraulic valves, for example to prevent the boom of a crane from swiveling out too far. Bosch Rexroth's new generation of directional and control contactless (and wear-free) valve sensors can monitor whether the spool of the valve is in the neutral or working position. The information is important for all standard-compliant safety circuits and opens up new diagnostic opportunities. Target applications are: cranes, truck mounted cranes and mobile elevating work platforms.

Meeting the tightest standards

Building upon this series of compact sensors (directly installed on the valve) users can reliably monitor all hydraulic valves of a mobile or stationary application and every movement of the valve spool. The system will indicate to the control electronic whether the spool of the valve is in the neutral or working position. Unlike other measuring principles, the magnetic one does not either affect the switching times or the hysteresis of the valve. As a plug & play component it reduces the wiring work with a standard 5-pin M12 connection. Equipped with the original Rexroth plug, the sensor meets the IP69K protection requirements for mobile applications.

The EDC in brief

- Flow sharing system (LUDV concept) size 6, to solve the saturation problems of load-sensing circuits;
- Simultaneous movements are allowed;
- Load functions can be performed at the same speed independently of working pressure;
- Compatibility with all ED series;
- Direct acting for better stability;
- Energy saving;
- Simplification of the hydraulic circuit;
- Spool positioning sensor optionally available.

Technical features

- Flow: up to 65 l/min
- Max pressure: 310 bar
- Operated: electrical on-off or proportional



Bosch Rexroth Oil Control S.p.A.
www.boschrexroth.com/compacthydraulics

rexroth
A Bosch Company