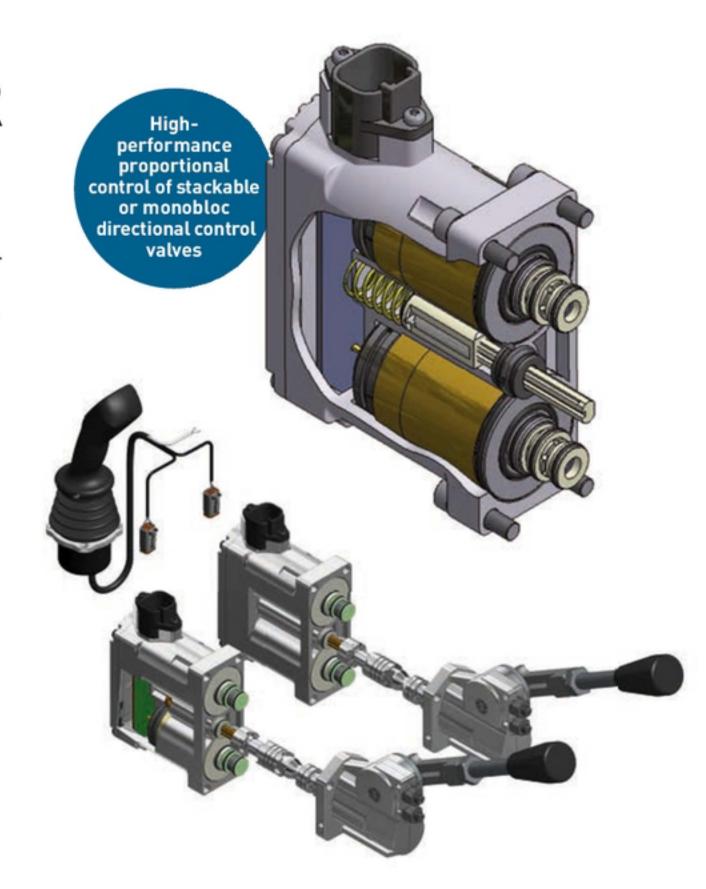
HIGHLY ACCURATE EH PROPORTIONAL ACTUATOR

Tecnord's MLT-FD5/D electrohydraulic proportional actuator has been designed to shift a directional control valve spool either directly (FL version) or by means of a servo piston that is mechanically connected to it (SP version). The internal closed-loop position control of the MLT-FD5/D makes the valve spool achieve the desired position with accuracy levels approaching the performance of a servo valve, by continuously comparing the setpoint of a remote control device (e.g. potentiometer, joystick, machine management system) with the feedback signal generated by a high-precision Hall-effect position transducer.

Applications include the highperformance proportional control of stackable or monobloc directional control valves, as well as proportional control of variable displacement pumps and motors. Two independent proportional valves provide a flow rate of 0.3 l/min, work pressure of 12-35 bar, and failsafe return to neutral in case of power loss. The Halleffect contactless spool position sensor ensures excellent linear control on 100% of spool travel; 8mm standard control stroke from each side of Neutral/13mm for Float position in one direction only; and prevents 'cross-talking' between adjacent work sections.

The built-in electronics feature an analog operating mode with +5V supply to external potentiometers or joystick controllers – with position feedback through analog voltage. In the other operating mode, the remote control setpoint is provided via CANbus according to ISO 11898 at 250Kb/s or 500Kb/s by means of standard SAE J1939 messages. Diagnostic messages are also available from the MLT-FD5 actuator.



Tecnord A4/543