



# Custom Controls inc.

## MLT/FD5

Closed Loop Proportional Actuator

### Features:

- Choice of CAN or Analog Operation
- Industrial Grade Aluminum Casting
- Hall Effect Position Transducer
- Intergrated Deutsch Plug



**TECNORD**  
SERVOCOMANDI E REGOLAZIONE  
MODENA - Italy

**HBC**  
**radiomatic**



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## MLT-FD5 Closed Loop Proportional Actuator

### PRINCIPLE OF OPERATION

The MLT-FD5 electro-hydraulic proportional actuator has been designed to shift a directional control valve spool directly.

The internal closed loop position control system within the actuator forces the spool valve to achieve the desired position, as dictated by the input device or MMI.

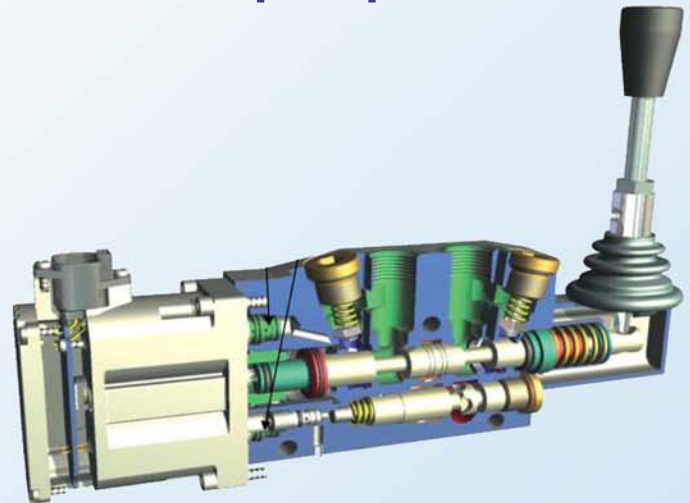
The position feedback is provided by a contactless Hall effect position transducer while the microprocessor controls the required spool shift to achieve the desired position.

### FEATURES

- Two independent proportional valves
- Control configuration: bidirectional with MOTOR SPOOL center position for fail-safe return to neutral in case of power loss.
- Hall effect/Contactless spool position sensor
- Excellent linear control on 100% of spool travel.
- No "cross talking" between adjacent work sections.
- ANALOG OPERATING MODE: +5 Volt supply to external potentiometers or joystick controllers.
- CANBUS OPERATING MODE: the remote control set point is processed via CANbus according to ISO 11898 at 250 Kbit/s by means of address-based (SAE J1939) or message-based (CAN 2.05) protocols.

### TECHNICAL SPECIFICATIONS

- 10-30Vdc operating voltage
- Pilot pressure control(175-500 PSI)
- Flow requirements of 0.2-0.5L per section



### APPLICATIONS

- High performance proportional control of stackable or monoblock directional control valves.
- Proportional control of variable displacement pumps and motors.
- Engine governor RPM controls
- Adapters for common directional valve applications ( the figure below demonstrates a small sample of our most commonly used valves).

<b>MAKE</b>	<b>MODEL</b>
<b>Bucher</b>	<b>HDS30</b>
<b>Husco</b>	<b>5000</b>
<b>Hydrocontrol</b>	<b>HCD4</b>
<b>NordHydraulic</b>	<b>RS210</b>
<b>Walvoil</b>	<b>SD8</b>

Custom Controls Inc.  
Suite 106-30468 Great Northern Ave  
Abbotsford, BC, Canada, V2T 6H4  
Phone:(604) 854 3000 Fax:(604) 854 3100  
Toll Free:1 (888) 878 0686  
WWW.CUSTOMCONTROLSINC.COM