

8 GPM PWM VALVE ASSEMBLY

P/N 17961

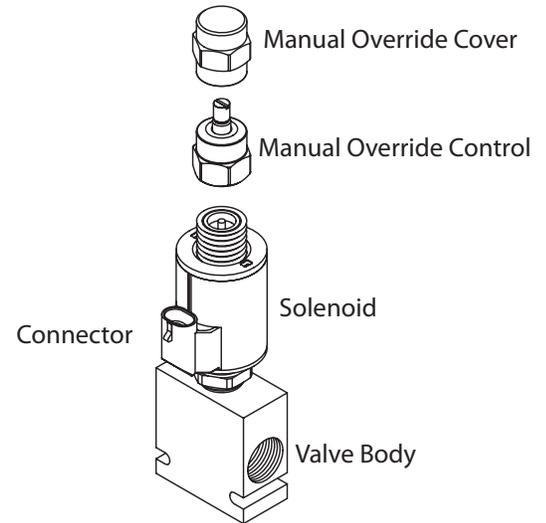
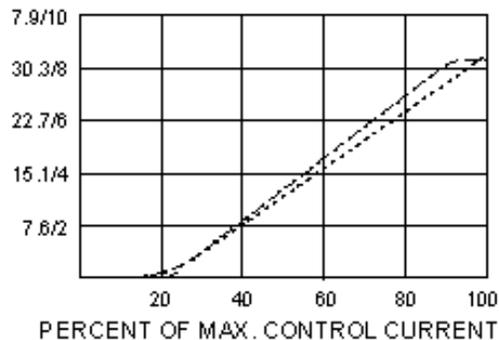


A solenoid-operated, electrically-variable, three-port, pressure-compensated, spool type, normally closed when de-energized, proportional flow control valve. It can be used as a priority-type flow regulator with pressure-compensated, regulated and bypass flow. It can also be used as a restrictive-type 2-way, pressure-compensated flow regulator when the bypass line (port 2) is blocked. The three ports are labeled by number. They are:

- 1 - Inlet
- 2 - Bypass (can be plugged for closed center configuration)
- 3 - Regulated Flow

PERFORMANCE

Flow vs. Current
207 bar/3000 psi; 12V Coil; 200 Hz PWM
32 cSt/150 ssu oil at 40°C
----- 2-Ported
----- 3-Ported



RATINGS

- Operating Pressure** Inlet - 240 bar (3500 psi)
Ports 2 and 3 - 207 bar (3000 psi)
- Regulated Flow Rate** Bypass Blocked - 26 lpm (7 gpm)
Bypass Open - 30 lpm (8 gpm)
- Maximum Input Flow** Bypass Open - 50 lpm (13 gpm)
- Internal Leakage** 197 cc/min. (12 cu. in./min.) fully closed at 207 bar (3000 psi)
- Electrical** 12 VDC
Threshold current 350 ± 70 mA
Max. current 1500 ± 200 mA

MANUAL OVERRIDE

To operate the valve manually, remove the cover on top of the cartridge assembly using a 1 1/16" wrench. The knurled stem on top should be turned counter-clockwise against the stop for normal operation of the PWM cartridge. To adjust the hydraulic oil flow, turn the stem clockwise until the desired motor RPM is achieved.

TROUBLESHOOTING

To test the electrically-variable shift of the spool, remove the manual override cover on top of the cartridge assembly using a 1 1/16" wrench. At the controller, set the system for maximum output. While holding your finger firmly on the top of the cartridge assembly, toggle the valve control signal on and off. You should feel the spool shift slightly, about .040". To test the solenoid resistance, remove the cable from the connector at the solenoid exposing the terminals. Measure the resistance across the terminals. The reading should be approximately 4.0 ohms.

111 East LeRay Ave., Box 99, Eagle Lake, MN 56024-0099
Toll-Free: 800-328-9613
507-257-3600 • Fax 507-257-3001
www.micro-trak.com • email: trakmail@micro-trak.com
Printed in U.S.A.