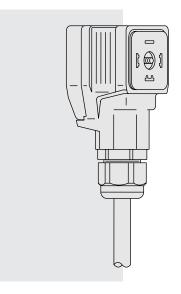
# **Proportional Valve Controller—DIN Coil Mount—**



# **GENERAL SPECIFICATIONS**

Plug Housing: Polyamide Plug Lid: Polycarbonate Weight: 30 g (1.06 oz.) without cable Connections: Mounted cable with unterminated wires provided; Length: approximately 2 meters (79")

### DESCRIPTION

### 10K Pot or 0–5 VDC Input—Economy Version

A convenient, plug-mounted control amplifier for controlling HydraForce proportional valves that have solenoids with DIN 43650A/ISO 4400 electrical connectors.

## OPERATION

This control module supplies a proportional valve solenoid with a proportional control signal. The input signal to this controller can be from a 10K potentiometer or a 0-5 VDC source. This economy version has no ramp adjustments. Dither frequency and amplitude are factory pre-set.

# FEATURES

- Mounts directly to solenoid coils with DIN 43650A connectors.
- IP65 weather resistant when used with base gasket (supplied).
  - Adjustments accessible with a removable cover.
- One unit covers supply voltages from 9 to 32 VDC.
- No internal fuses; circuit limits current electronically.
- Short circuit proof and reverse polarity protected.
- Connector can be disconnected from coil when powered.
- · Maximum current adjustment does not affect minimum current setting.
- Internal supply for potentiometer.

# RATINGS

#### Supply Voltage: 9-32 VDC

Coil rating must be matched with supply voltage:  $R_{COIL} \leq (V_{SUPPLY} - 1.5 V) / I-Max$ .

**Control Input Signal Options:** 10K external potentiometer (accepts 5K to 50K pots), or 0–5 VDC current signal (see connection diagrams)

Input Resistance: 187K Ohms

Output Current: up to 2000 mA (see ordering info.)

Minimum Current Range: 0–500 mA (adjustable)

Maximum Current Range: 600–2000 mA (adjustable)

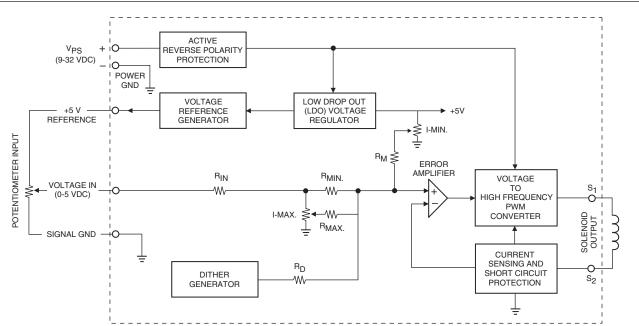
Internal Supply for Setpoint Potentiometer: +5VDC

Dither Frequency: 90 or 220 Hz (±10% of full scale) Preset at Factory

Dither Amplitude: 5% Preset at Factory

**Operating Conditions:** -40° to 85°C; 0 to 85% relative humidity

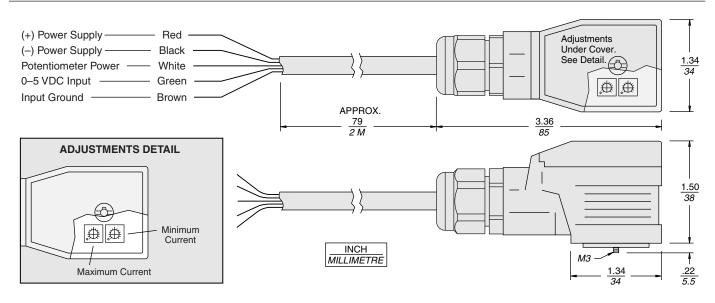
Environmental Protection: IP65 with cover and base gasket installed



# SCHEMATIC

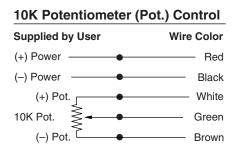
# **10K Pot or 0–5 VDC Input—Economy Version**

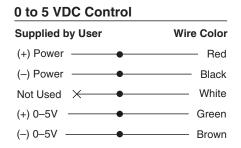
## DIMENSIONS



# CONNECTIONS

## For Complete Set-Up Instructions, see page 3.439.1





# **TO ORDER**

Part Number	Dither Freq.	Output	I-Min. Setting	I-Max. Setting	Cable Length
4000172	90 Hz	2000 mA	0 to 500 mA	600 to 2000 mA	2 meters
4000236	220 Hz	2000 mA	0 to 500 mA	600 to 2000 mA	2 meters