

# 2240 Valve Driver



# Team

## Systems & Solutions

**Engineered**

**vibration testing**

**solutions for**

**improved**

**product quality.**

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The Team 2240 Valve Driver is a vital component of a Team hydraulic vibration simulation system.

All hydraulic actuator systems require a feedback control system to keep them in the desired position. The 2240 Valve Driver performs this important position control function. The vibration system must also follow the user's desired test waveform. The 2240 Valve Driver gives the user the ability to drive the system with any standard test controller or waveform generator.

You can use a simple function generator or a sophisticated, multi-channel, phase controlled, waveform replication system to drive the vibration system through the 2240 Valve Driver.

The 2240 Valve Driver needs NO adjustments during normal operation. Changing loads or test conditions does NOT require making any adjustments to the 2240 Valve Driver. You truly just "set it and forget it".

## Features

### Front Panel Controls

- Power switch
- Position Display
- Integrate ON-OFF Switch/Indicator (Integral Compensation)
- Amplitude Potentiometer
- Setpoint Potentiometer
- Drive Signal Input Connector

### Back Panel Controls

- AC Line Power Receptacle/Voltage Selector:
- Circuit Breaker
- Position Feedback Signal Connector.
- Slave Feedback Connector
- Servo Valve Drive Connector
- Duplicate Drive Signal Input Connector
- Spare Connector
- External Setpoint
- Hydraulic Pressure Safety Switch Connector

# 2240 Valve Driver Specifications

<b>Input Power Requirements:</b>	100V, 120V, (@ 4 amps) 220V or 240V, (@ 2) amps) 50 or 60 Hz, single phase RFI filtered.
<b>Power Supply:</b>	Power Amp Supply +/- 35 volts, unregulated Servo Controller motherboard Voltage Output: +/- 15 VDC & + 5 VDC, +/- 5% Line Regulation: +/- .1% typ. from 80-120% of input Load Regulation: +/- .025% typ. from .25 to .75A
<b>LVDT Excitation Oscillator:</b>	10 kHz with amplitude of 3.5 volts RMS
<b>LVDT Demodulator:</b>	Accepts 2 inputs and uses ratiometric concept that is impervious to carrier or voltage change
<b>Program Input:</b>	Impedance: 100K
<b>Attenuation Range:</b>	0% to 100%
<b>Output Amplifier</b>	Voltage output: +/- 34 VDC +/- 5% @ +/- 2 Amps. Frequency response: - 5 dB @ 16 kHz (full power) Output Power: 100 watts, Distortion: < .3% @ 2000 Hz.
<b>Field Coil Excitation:</b>	Voltage output: +/- 35 VDC +/- 5% @ 500 mA.
<b>Display:</b>	1/2 Digit LCD for the position feedback signal only. Rear panel connection external display device.

