

# Kalsi Engineering

## MOV Actuator Test Stand

### Description

The Kalsi Engineering MOV Actuator Test Stand improves MOV Margins by accurately quantifying actuator torque output *off-line*, eliminating conservatism in torque output calculations. The test stand quantifies the following:

- Torque output with and without stem thrust
- True capability under degraded voltage
- Torque switch repeatability
- Gear efficiency
- Temperature effects
- Stall capability

### Benefits

- Typically provides 10%-40% additional capability over published/calculated actuator output
- Guarantees fitness for service by detecting actuator degradation or mis-assembly
- Guarantees functional replacement actuators for outages
- Enhances productivity and reduces dose by minimizing time at the valve

### Test Stand Capabilities

#### Load Range

- 0 to 75,000 lbs. thrust, tension or compression
- 12.5 to 3000 ft-lb torque, bi-directional

#### Torque Resistance

- Industrial Pneumatic Disc Brakes
- Variable Ramp Time & Target Torque

#### Data Input, Output, & Control

- Electronic control panel with touch screen interface
- Data Display: Operator RPM, Thrust Load, Operator Output Torque, Spring Pack Displacement
- Analog Outputs: BNC Connectors for data acquisition

### Adapters

- Limitorque SMB-000 to SMB-2
- Limitorque HOBC to H2BC
- Rotork sizes 7 to 90
- EIM
- Hopkinson



### Other Options

- Power Cabinet with Variable Amperage and Voltage
- Power Cabinet with Client defined Discrete Motor Voltages ranging from 100 to 600 V AC/DC
- Motor Dynamometer (for Limitorque Actuators only) up to 80 ft-lb

*10+ years of plant experience demonstrates 10%-40% additional capability over calculated/published actuator output*

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