

# Motorized Valve Operator Trainers

Educational Training Equipment for the 21st Century

Bulletin 135D

## H-MVOT Motorized Valve Operator Trainer

### Purpose

The Hampden **Series H-MVOT** Motorized Valve Operator Trainer provides students with “hands-on” training for wiring, adjusting and troubleshooting a *two-train (H-MVOT-1A)* or a *four-train (H-MVOT-2A)* motorized valve operator of the type made by Limitorque Corporation.

### Description

The **Series H-MVOT** Motorized Valve Operator Trainer consists of the following components:

- Component panel
- Mobile bench
- Motorized valve operator
- Cord set
- Manual

Mounted on the rear of the Component Panel is one 3-pole main circuit breaker with “Power On” pilot light, one control transformer with fused secondary, and one 3-phase reversing starter with overloads.

Mounted on one end of the panel is one “Power On” pilot light, two indicator pilot lights, one selector switch, and six pushbuttons.

Mounted on the front side of the panel is one “Power On” pilot light. The front panel is steel with silkscreened schematics and all component connection points brought out to Hampden HR-1S socket receptacles. Schematics and terminal points are provided for main circuit breaker, control transformer, space heater, reversing starter with overload and auxiliary contacts, two pilot lights, six pushbuttons, selector switch, two torque switches, rotor #1 positioner, rotor #2 positioner (also #3 and #4 positioners on the **Model H-MVOT-2A**), motor terminal connections, one “Power On” pilot light, and one 6 ft. power cord.

The **Mobile Bench** measures 35"H x 60"W x 30"D, constructed of 14-gauge furniture stock steel with a wood core melamine top. This unit is provided with casters; two with locks.

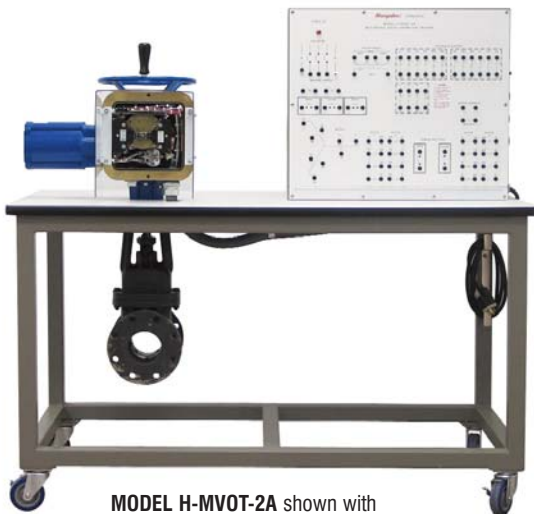
The Motorized Valve Operator is equal to a Limitorque Model L120, complete with Lexan® terminal cover, simulated space heater, and interface cable. This unit is furnished complete with a 4" iron gate valve.

The Cord Set consists of 45 plug-to-plug black cords.

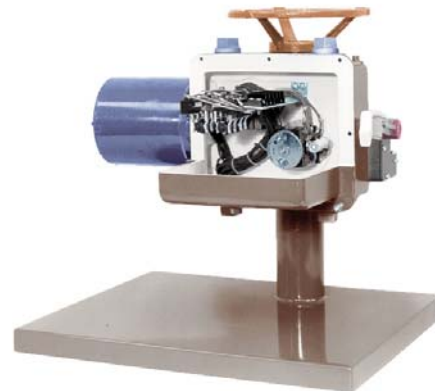
### Optional Fault System

The Fault System (add suffix **-FT** to model number) for the Motorized Valve Operator Trainer consists of a switch panel with a locking enclosure. Mounted on the panel are the following faults.

- Open torque switch
- Closed torque switch
- Fused “Open Pushbutton” contact
- Open limit switch
- Closed limit switch
- Open electrical interlock
- Red light defective - burned out bulb
- Closed Pushbutton Switch A
- Open sealing contact circuit
- Open motor overload circuit
- Defective heater
- Transformer defective - secondary open



MODEL H-MVOT-2A shown with customer specified operator and valve



MODEL H-MVOT-CA  
Motorized Valve Operator Cut-Away

All Hampden units are available for operation at any voltage or frequency

**Hampden**  
ENGINEERING CORPORATION

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