

# Electric Motor Operator for: Gate Valves / Butterfly Valves / Plug Valves

## M&H VALVE

Almost every business day, M&H is assembling and testing valves with Electric Motor operators.

Electric motor operator may be furnished on NRS and OS&Y Gate Valves, plug valves, & butterfly valves.

Motor operated valves are specified where frequent operation is necessary or where valves are located in remote, inaccessible or hazardous places.

For large valves and frequently used valves, operating costs are reduced and efficiently increased by the remote control possible with electric motor operation. In emergencies, quick operation of valves by electric motor may be extremely vital.

Electric Motor Operated Valves are used in industrial plants, power plants, water plants, sewage disposal systems and miscellaneous pipe lines. Some of their specific uses include the following:

Large Valves	Storage Tanks
Intakes	Filter Beds
Outlets	Booster Stations
Pump Discharge	

An electric motor is mounted on the valve and geared to the valve stem so that when the motor operates the valve will open or close. Adjustable limit and torque switches are arranged to stop the motor when the valve is completely opened or closed, or automatically stop the motor if there is any obstruction in the valve to prevent the gate from moving. This prevents damage both to the valve parts and to the motor and gearing. Electric equipment conforms to N.E.M.A. codes. Detailed specifications on the construction and design of motor units and controls will be furnished if desired. Motors are high torque, fully enclosed in weather-proof or explosion-proof housings.

When specified, motor shall include:

- Integral reversing starter package, which includes reversing controller, 120 volt/25 watt heater, 75 VA transformer with fused secondary & 24 point terminal strip. Available in weather-proof, explosion-proof, etc. enclosures.
- Three button – two light push button station for open, stop and close operation with red and green lights to show whether the valve is open or closed. The green light is lit when the valve is closed, the red light is lit when the valve is open. Both red and green lights remain lit when the valve gates are in any intermediate position between open and closed. Various combinations of buttons and lights are available as well as integral, surface or flush mounting in either weather-proof or explosion-proof enclosures.
- Mechanical dial position indicator available when specified for easy to read position of valve gate. Available for local remote and local/remote indication.

Motor operating units are available with auxiliary handwheels for manual operation, which do not turn during electric operation. If the electric current comes on during manual operation, the handwheel of the unit declutches automatically and thus prevents any possible injury to the operator.

**July 2005 / M&H Electric Motor Operator**

# Electric Motor Operator for: Butterfly Valves / Gate Valves / Plug Valves

## **M&H VALVE**

### **INFORMATION REQUIRED WITH MOTOR OPERATED VALVE ORDER:**

1. Type of valve – (Butterfly Valve) (RW Gate Valve)(DD Gate Valve)(Plug Valve)
2. End connection
3. Valve size and quantity.
4. Maximum pressure against which valve will be required to operate (Maximum Differential Pressure) and flow rate in feet/sec. if available.
5. Current Characteristics (Voltage, Phase, Cycles, A.C. or D.C.).
6. Opening or Closing time in seconds or inches per minute (Standard is 12” per minute).
7. Service: Water, etc.
8. Frequency of service; regulating or intermittent duty.
9. Maximum temperature at location of valve control.
10. Type motor desired: Weather-proof, Explosion-proof, etc.
11. Type of Reversing Controller (NEMA-Class).
12. Type of Pushbutton Station (NEMA-Class) (Normally NEMA-1 or NEMA-4).  
(Flush or Surface Mounted) (Number of Push buttons or Lights – Usually 3 buttons, 2 lights).
13. Control Voltage.
14. Any special requirements such as mechanical dial position indicator, hand off automatic switch on pushbutton stations, etc.
15. Complete specification will required with inquiry for all motor valves.