

Electric actuated gate valve suppliers in India.



Speciality Valve is the largest [Electric actuated gate valve suppliers in India](#). Our valves are made with good quality and are used varied industries all over the globe.

An electric actuated gate valve is a type of valve that utilizes an electric actuator to control the opening and closing of the valve gate. This type of valve is commonly used in industrial applications where remote operation, precise control, and automation are required.

When the electric actuator receives a signal to open the valve, it generates mechanical force to lift the gate from the flow path, allowing fluid to pass through. Conversely, when the actuator receives a signal to close the valve, it moves the gate downward to block the flow path, shutting off the fluid flow.

Electric actuated gate valves offer precise control over the position of the gate, allowing for accurate regulation of flow rates. What does an

actuator means? An actuator is a mechanical or electromechanical device that is responsible for controlling or moving a mechanism or system by converting energy into mechanical motion. Actuators are widely used in various applications and industries to automate processes, control valves, adjust positioning, and perform other functions requiring motion or force.

Components:

- **Gate:** The gate is the movable barrier within the valve that opens or closes the flow passage. In a gate valve, the gate moves perpendicular to the flow direction.
- **Electric Actuator:** The electric actuator is the component responsible for converting electrical energy into mechanical motion to operate the valve. It can be controlled remotely via a control panel or a computerized system.
- **Valve Body:** The valve body houses the gate and provides the structure for connecting the actuator and other components.
- **Sealing Mechanism:** Gate valves typically employ a parallel or wedge-shaped gate that creates a tight seal against the valve seats when closed, preventing leakage.
- **Stem:** The stem is connected to the gate and extends through the valve body, transmitting the motion from the actuator to the gate.

Applications:

- **Water Treatment:** Used in water distribution systems, wastewater treatment plants, and desalination facilities for flow control and isolation.
- **Oil and Gas Industry:** Employed in upstream, midstream, and downstream operations for controlling the flow of crude oil, natural gas, and refined products.
- **Chemical Processing:** Utilized in chemical plants for handling various corrosive and abrasive fluids.

- Power Generation: Found in power plants for controlling the flow of steam, cooling water, and other fluids in boilers, turbines, and condensers.
- HVAC Systems: Used in heating, ventilation, and air conditioning systems for regulating the flow of chilled water, hot water, and refrigerants.

Advantages:

- Can be controlled from a distance, allowing for automation and integration with control systems.
- Electric actuators offer accurate positioning and control over the valve's operation.
- Electric actuation eliminates the need for manual operation, reducing the risk of human error.
- Suitable for a wide range of temperatures, pressures, and fluid types.

As [Electric actuated gate valve suppliers in India](#), has the capability to be remotely controlled through a electric control system. This enables the automated regulation of fluid flow in accordance with the specific requirements of the process or system.

Description:

- Size: DN40 to DN700
- Pressure: PN10 to PN150, Class150 to Class900
- Body Material: Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel
- End Connections: Flanged, Socketweld, Buttweld, threaded
- Operations: Electric Actuated

Electric actuator details-

- Torque – 3 – 9 nm

- Operating pressure- 8 Bar
- Port Connection-NPT1.4"
- Mounting Base-ISO5211
- Temperature--20°C - +80°C

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