

GPS Actuator

By Bernard Controls

The best way to find your electric actuation solution

- **Resolution**
 - **The resolution is the smallest achievable step at the output shaft of the electric actuator.**
 - **This is the** most important performance criterion to ensure efficient modulating **since it refers to the** ability of the actuator to promptly operate the valve by little steps.
 - **Practically, if we have a minimum output change - resolution - equals to 2%, then:**
 - 2% means 2% of the total travel of the valve.
 - Therefore, a resolution of 2% allows the actuator to reach 50 steps along the total travel. Similarly a resolution of 1% would allow the actuator to reach 100 steps along the total travel.
 - For a Quarter-turn actuator: $2\% \text{ of } 90^\circ = 1,8^\circ$ (minimum output change would be a rotation of $1,8^\circ$)