

# GPS Actuator

By Bernard Controls

## The best way to find your electric actuation solution

- **Response time**

- The **response time** is the time needed by the actuator to reach the required position following an input signal change.
- Usually, the electric actuator piloting a valve must reach a specific position as quick as possible to ensure an optimal control of the process. This is even more relevant when it comes to small changes of valve position. Therefore, response time is a key performance criterion.
- In order to measure the level of performance of an actuator regarding response time, we usually compare « T63 ».
- T63 is the lapse of time needed by the actuator to reach 63% of the output step when it receives an input signal of 2%. This a reference time measurement called time constant.
- The response time is the addition of the dead time (time without any movement) and time constant T63.

