



rotork

Rotork IQ3 Pro — Quick Operating Guide

For Cactus Flow Products (CFP) adjustable choke applications

Purpose: Practical field reference for operating and checking a Rotork IQ3 Pro electric actuator on a CFP adjustable choke. This quick guide is not to be used as an Operating Manual. For any further information please reference the Rotork Operating Procedure Manual.

Use the actuator nameplate, approved CFP documentation, and the actuator's current configuration as the controlling references for exact settings.

1. Local control

- Turn the **LOCAL/REMOTE selector** to **LOCAL**.
- Use the **OPEN** and **CLOSE** controls to operate the valve.
- **STOP** stops the actuator while in local control.
- The display shows **valve position** and **actuator status**.
- Operate in the direction shown by the actuator's labeled **OPEN/CLOSE** controls; do not assume a universal clockwise/counterclockwise direction.

2. Remote control

- Turn the selector to **REMOTE**.
- The actuator will respond to the **plant/PLC control signals**.
- Local OPEN/CLOSE commands will normally not operate the valve while in remote mode.
- Remote operation may also be affected by configured **interlocks, ESD, or control logic**.

3. Checking valve position

The display indicates the valve position, typically as a percentage: **Each Rotork actuator from Cactus Flow Products is pre-set to a specific choke**. It is recommended to not adjust these parameters without first referencing the complete Operating Procedure Manual from Rotork.

0%	Closed
50%	Mid-travel
100%	Open

It can also display **status, alarms, movement, battery condition, torque/load information**, and other actuator information.

Note: Valve position is actuator travel. It does not by itself indicate process flow or pressure.

4. Basic setup

The important setup items are generally:

- Valve closed position
- Valve open position

- Closing direction
- Open/close limits
- Torque settings
- Control mode
- Remote control inputs

■ **Do not change torque or limit settings unless you know the valve manufacturer's requirements and are authorized to make the change. Incorrect settings can damage the valve or actuator.**

5. If the actuator won't move

Check the display and control system for:

- Local/Remote selection
- Valve position or limit already reached
- Torque trip
- Motor/actuator fault
- Lost or incorrect control signal
- Interlock or emergency-stop condition
- Mechanical obstruction or stalled condition
- Reference full Operating Procedure Manual from Rotork.

The IQ3 Pro has built-in **diagnostics and data logging** that can help identify operating and actuator problems.

Do not simply increase the torque setting to force movement. Investigate the cause of the trip or resistance and use the approved CFP/Rotork configuration requirements.

6. Bluetooth setup

- The IQ3 Pro can be configured using Rotork's **Bluetooth Setting Tool**.
- Rotork also supports configuration through its **app on applicable IQ3 Pro versions**.
- Use the current configured security/PIN credentials; do not assume a factory PIN has remained unchanged.
- Bluetooth access can be used to review **position, alarms, status, settings, diagnostics**, and other available actuator data.

Operator note: Selector STOP is an operating control and does not by itself prove that equipment is de-energized or depressurized. Follow the applicable site isolation/LOTO procedure before maintenance or physical work on the valve or actuator.