



Keeping the World Flowing
for Future Generations

IQ3 Pro range

Multiport Selector Valve (MSV) control

IQ3F Pro 'multiport' actuators utilise data from Rotork's patented high-resolution absolute encoder to deliver highly accurate bi-directional rotary MSV control and eliminate potential conversion errors.

The multiport option provides accurate port positioning on MSVs. A typical application is to combine the output from several oil and gas wellheads. The MSV allows you to select one wellhead to be diverted for measurement and/or testing, while the remaining wellheads are directed to a common outlet.

Multiport control integration in the IQ3 Pro range delivers enhanced precision, reliability, and connectivity to demanding applications such as chemical processing, oil and gas production, water treatment, and pharmaceutical manufacturing, where precise and efficient management of fluid pathways is critical.

Rotork's IQ3 Pro range delivers intelligent control and monitoring, data logging and industry-leading reliability for all types of valve actuation in arduous and hazardous environments. See PUB002-197 for further details.



- Multiport selector valve control allows product to be diverted to any one of 3 to 16 ports
- Highly accurate and repeatable valve positioning and sealing
- Accuracy of valve movement to 1° rotation
- Bidirectional or single direction (clockwise or anti-clockwise) operational movement of rotary MSV
- Dormant (inactive) port(s) configuration possible
- Emergency Shutdown (ESD) port configuration
- Modbus network, hard-wired (pulse) and local control options
- Equidistant and non-equidistant ports supported



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Control methods

The following options can be used to remotely control IQ3 Pro range actuators with multiport control:

Modbus network control

Modbus
INC
DEC
STOP
ESD
PORT No.

Hard-wired (pulse) control

3-line solution
INC
DEC
ESD

4-line solution
INC
DEC
STOP
ESD

The actuator can also be controlled locally using the control knobs, Rotork Bluetooth® Setting Tool Pro (BTST) or Rotork smartphone app:

Local control

Local control knobs
INC
DEC

BTST and Rotork app
INC
DEC
STOP

Configuration options

The IQ3 Pro range 'multiport' actuators can move the valve to different port positions. These port positions are saved in EEPROM during configuration settings.

The following are essential items required during configuration:

Number of ports: The maximum number of ports supported by the multiport actuator is 16, with a minimum of 3. The default value is 8.

Direction of movement: IQ3 Pro 'multiport' can support clockwise, anti-clockwise, bidirectional-wrap, bidirectional-no wrap configurations.

Dormant port: Multiple ports can be configured to become dormant ports, which means they will be skipped during normal operation.

ESD/absolute port: In an emergency shutdown (ESD) scenario, the actuator is moved to the specified port position.

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