

Quad-O Regulation Compliance for the Oil & Gas Industry

Environmental compliance standards for the oil and gas industry have tightened significantly with the introduction of the Code of Federal Regulations 40, Part 60, Subpart OOOO (Quad-O). The consequences of non-compliance with these standards are more costly than ever. By understanding these regulations and the solutions available, you can avoid fines and allow personnel to focus on what matters most—safely maximizing production.



Promote Environmental Stewardship



Protect the health of your community.

Fisher™ products are certified for low or no gas consumption and offer live-loaded valve packing to achieve the low fugitive emissions standards developed by the Environmental Protection Agency (EPA).

Take the guesswork out of environmental compliance altogether.

Paperwork necessary to prove Quad-O compliance is significantly reduced because electric devices eliminate the potential for volatile organic compounds to escape into the atmosphere.

Increase Product Return



Time-tested products help to meet your process goals.

We've engineered our products not only to help reduce your carbon footprint, but also to perform to the highest standards of safety and efficiency. You'll realize a high return on investment because many Fisher pneumatic devices meet the required steady-state bleed rate of less than 6 standard cubic feet per hour (scfh) set by the EPA's New Source Performance Standards.

Control and Diagnose Remotely



Erase limitations of pneumatic devices.

The electric level loop solution, using an electric level device with the Fisher easy-Drive™ actuator, offers a no bleed solution that can be maintained in remote locations.

Gain remote operational insight.

Know how many times a valve has gone through its dump cycle, its total cycle count (used for preventative maintenance), and if power issues have occurred. The easy-Drive actuator uses remote telemetry, offering immediate feedback.

Avoid Fines and Penalties



Stay on top of data collection and reporting.

Utilize our Energy Responsible Tool to calculate natural gas steady-state consumption rates on a large array of Fisher products; ranging from positioners to level or pressure controllers.

Achieve low emissions leakage.

Fisher ENVIRO-SEAL™ live-loaded packing systems help to conserve valuable process fluid and gases to protect the environment against emissions. The long life and reliability of these systems also reduce your maintenance costs and downtime. ENVIRO-SEAL packing is an available option for most of your control valve and dump valve needs.

Pneumatic, Low Bleed Solutions



Fisher i2P-100 Electro-Pneumatic Transducer

This transducer uses a converter module that converts a milli-ampere input to a proportional pressure output. The i2P-100 transducer is certified for natural gas use and has a bleed rate of under 6 scfh.



Fisher FIELDVUE™ DVC6200 Digital Valve Controller

DVC6200 Series digital valve controllers equipped with a low bleed relay will meet the Quad-O steady-state consumption requirement of 6 scfh when used with up to a maximum 3.7 bar (53 psi) natural gas supply at 16°C (60°F).



Fisher 4195K Gauge Pressure Indicating Controller

The relay and nozzle design on the 4195K controller reduce steady-state air consumption to as low as 2.5 scfh; less than the 6 scfh requirements listed for Quad-O compliance.



To estimate your instrument pneumatic supply consumption, visit [Fisher.com/EnergyResponsibleTool](https://www.fisher.com/EnergyResponsibleTool)



Fisher 4660 Pneumatic High-Low Pressure Pilot

The 4660 pneumatic high-low pressure pilot activates safety shutdown systems for flow lines, production vessels, and compressors. It is designed with a block and bleed relay system to ensure energy efficient operations.



Fisher C1 Pneumatic Controller and Transmitter

C1 controllers compare sensed or differential pressure with an operator adjusted set point, and send a pneumatic signal to an adjacent control that maintains the process pressure at or near the set point. Low consumption increases the gas to market.



Fisher L2sj Liquid Level Controller

The L2sj is a low emission liquid level controller. It uses a displacer type sensor to detect differing liquid levels. A low bleed relay helps conserve natural gas use, reducing greenhouse gas emissions.



Fisher 2100 Liquid Level Switch

The 2100 switch uses a pneumatic supply to sense high or low liquid levels in safety shutdown systems or field processing equipment in oil and gas production applications. At steady-state air consumption, use is 1.0 scfh.

Electric, No Bleed Solutions



Fisher easy-Drive Electric Actuator

Paired with Fisher D3 and D4 control valves, the easy-Drive actuator can be used in the most remote locations because a pneumatic supply is not needed to stroke the valve. Class IV shutoff can be maintained indefinitely without power.



Fisher FIELDVUE DLC3010 Digital Level Controller

The DLC3010 digital level controller is a 4-20mA device that controls the level in your vessel electrically, eliminating greenhouse gas emissions.



Fisher 2100e Liquid Level Switches

The 2100e switch uses an electric supply to sense high or low liquid levels in safety shutdown systems or field processing equipment in oil and gas production applications. Utilizing an electric supply, instead of a natural gas supply, reduces concerns of Quad-O compliance.

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