



ROSEMOUNT™ MIF 61 MULTI-INSTRUMENT FLANGE SOLUTION

Ensure regulatory compliance for LNG and LPG fuel tanks with an all-in-one solution.

Flexible instrument integration designed for LNG and LPG applications

To meet regulations regarding emissions, many vessels are transitioning to using liquid natural gas (LNG) or liquified petroleum gas (LPG) as their primary fuel source due to their low sulfur emissions. However, this shift presents challenges in finding a marine supplier that offers a complete solution for level, pressure, and temperature measurement devices capable of operating under extreme conditions. The unique requirements of LNG tanks, which hold fuel at cryogenic temperatures, and the diverse process conditions of LPG tanks further complicate the search for suitable instrumentation.

To address these challenges, our integrated solution offers the following benefits:

- Having all instrumentation on the same flange simplifies tank design for engineers.
- Utilizing the same configuration tool streamlines the configuration process for all instruments.
- Opting for a single supplier for all instrumentation and the flange reduces supplier complexity.
- The solution is designed to facilitate maintenance without compromising the integrity of the tank.



Rosemount MIF 61 Multi-Instrument Flange

Rosemount 5408 Level Transmitter Non-Contacting Radar

- The transmitter is optimized for reliable and accurate performance in the most challenging applications.
- Up to 30 times more power on the surface than a traditional two-wire non-contacting radar
- Immune to immediate power loss



Rosemount 5408

Rosemount 2051T In-Line Pressure Transmitter

- Selectable as either absolute or gauge type
- Reliable vapor space measurement

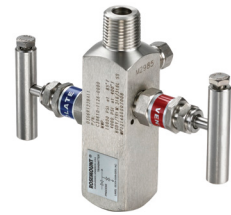


Rosemount 2051

ROSEMOUNT MIF 61 MULTI-INSTRUMENT FLANGE SOLUTION

Rosemount 0306 In-Line Manifold

- Block-and-bleed 2-valve configurations provide instrument isolation and drain/vent capabilities
- Factory-assembled, leak-tested and calibrated to assure optimal performance



Rosemount 0306

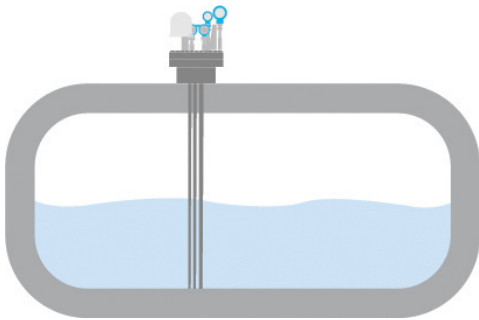
Rosemount 644 Temperature Transmitter and Rosemount TMU 5150 Housing

- Each temperature sensor has its own dedicated transmitter to ensure reliable and safe operation
- Rosemount TMU 5150 housing has space for up to six individual temperature transmitters and sensors



Rosemount 644

Complete Solution



The instrumentation is assembled as an all-in-one solution, which enables a straightforward installation requiring only one tank penetration. With a minimized flange and process connection the overall solution is designed to minimize the footprint on the tank, providing means for compliance with the minimum required holding time of 15 days as stipulated in the International code of safety for ships using gases or other low-flashpoint fuels (IGF Code).

Designed with a high degree of scalability, the user can select the number of required transmitters. The overall instrumentation flange can host up to two level radar transmitters, two pressure transmitters with integrated manifolds, and up to six temperature transmitters with sensors.

This complete multi-instrument single flange solution can be configured to meet the needs of an LNG/LPG fuel tank application, ensuring safe and compliant operations.

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