

Wärtsilä Smart fuel hose



A fuel hose leakage onboard your vessel can have serious consequences, ranging from cumbersome and expensive clean-up operations to fires that endanger the safety of your personnel and equipment. In order to maximise safety, Wärtsilä has developed the Smart fuel hose, a multi-layered flexible fuel hose with leakage indication that helps to ensure that any leakages are detected before they cause harm to your operations.

TECHNICAL CONCEPT

In a marine installation, the fuel hose is installed between a fixed point and a flexibly mounted engine. The hose is exposed to extreme conditions and has to withstand high temperatures, various fuel types and pressure fluctuations, as well as vibrations caused by the installation and/or the engine fuel pump arrangement.

The Wärtsilä Smart fuel hose assembly consists of multi-layered flexible hoses and leakage indication. The assembly is type approved, MED certified and field tested in harsh conditions.

KEY BENEFITS

- Decrease the risk of fuel spray
- Increase safety for personnel and equipment
- Decrease the risk of an engine room fire
- Ensure peace of mind for personnel operating the engine
- Avoid costly clean-up operations after fuel spray
- Increase component reliability and lifetime





The hose is constructed as follows:

- The innermost layer is an extremely durable, high quality, state-of-the-art oil resistant synthetic rubber hose
- The second layer is made of high tensile steel wire braid reinforced NBR-rubber
- The outer layer is a Pyrojacket Firesleeve (ID 3 ¼") that covers the two inner hoses

Leakage indication consists of leakage hoses and a leakage tank that has two capacitive sensors – one for the inlet, one for the outlet hose – which enables alarm functionality if fuel is present. Fuel from the leakage tank is directed to the sludge tank via a hose. The sensors are connected to the automation system or to an external alarm system, depending on what is installed and the chosen alarm functionality.

SCOPE OF SUPPLY

Delivery includes the hose assembly kit with flexible hoses, leakage tank, terminal box and cables with sensors. The kit also includes splashguards.

WHY CHOOSE WÄRTSILÄ?

Original Wärtsilä spare parts comply with the latest specifications and prolong the lifetime of your installation. Continuous research and development, as well as professional support from Wärtsilä's global network, ensure that you always get the latest applicable parts and ensured reliability.



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