

Wärtsilä Hydrolock indicator



Operational reliability and uptime are critical, and the consequences of having an engine out of operation can be serious. Achieve maximised uptime by installing the Wärtsilä Hydrolock indicator, a warning system indicating water strokes.

The system is comprised of a relief valve, bursting discs, cabling, and a terminal box. The pressure sensitive bursting discs are combined with safety relief valves which are installed in cylinder heads in Wärtsilä engines.

When the predefined pressure point is exceeded, the relief valve opens and the bursting disc ruptures and opens an electrical circuit. This triggers specific actions depending on the status of engine operation. For example, in stand-by mode the triggered action is engaging the startblock.



If a water stroke has occurred, the system gives a chance to act before more consequential damages to the engine take place, since it warns the operator of a possible water stroke during slow turning or when starting the engine. With the Hydrolock indicator the safety of both equipment and people is increased.

BUSINESS BENEFITS

- Increased reliability and availability
- Increased safety on board or at the plant
- Improved risk management

SCOPE OF SUPPLY

Wärtsilä Hydrolock indicator is applicable to selected Wärtsilä engines with a Wärtsilä UNIC automation system or basic automation, in both marine and power installations.

Engines equipped with WECS 2000 automation system need to be upgraded to UNIC in order to utilise the Wärtsilä Hydrolock indicator. A complete set of relief valves and bursting discs are provided when the system is installed for the first time. After the initial installation, basically only the bursting discs need to be replaced when broken.

Connection of the system to the vessel's or power plant's control system is to be determined case by case. The installation time for Wärtsilä Hydrolock indicator is estimated at 2 days per engine, but depends on the agreed scope.