

Pressure Relief Systems for Gas-fuelled Engines

Amended Guidance

Guidance for the Survey and Construction of Steel Ships Parts GF and N

Reason for Amendment

With regard to gas-fuelled engines installed in ships using liquified gas fuels and/or carrying liquefied gas cargoes, there is a risk of explosion due to stagnating gas vapour resulting from flame failure and methane slip, etc.; therefore, Chapter 10 of the IGF Code and Chapter 16 of IGC Code specify that pressure relief devices are to be fitted to the main components of gas-fuelled engines so as to protect them from such explosions.

The use of non-self-closing pressure relief devices such as rupture discs in enclosed spaces, however, might result in a lack of oxygen within the space; for example, the continuous discharge of exhaust gas into the enclosed space lead to such a situation. Consequently, it was considered that the gas discharged from such devices needs to be released at appropriate locations.

As a result of a review of requirements for the pressure relief systems for gas-fuelled engines, relevant requirements were amended.

Outline of Amendment

- (1) With regard to the Guidance for Parts GF and N, and their associated annexes, specified that the pressure relief systems for gas-fuelled engines are not to continuously discharge exhaust gas into enclosed spaces.
- (2) Similarly to the Rules for Parts GF and N, specified in the annexes of Parts GF and N that venting due to activation of the pressure relief systems for gas-fuelled engines is to be led away from locations where personnel may normally be present.

Amended Requirements

Guidance for the Survey and Construction of Steel Ships

Part GF: GF10.2.2, Annex 3 2.3.2, Annex 4 2.3.2

Part N: N16.7, Annex 3 2.3.2, Annex 4 2.3.2