

Service News



Daily inspection of safety valve

We would like to inform you about daily inspection of safety valve of marine aux. boiler and exhaust gas economizer.

<Safety valve of boiler and exhaust gas economizer is an important device>

In normal operation, steam pressure of boiler and exhaust gas economizer is controlled not to exceed the maximum working pressure with pressure switch etc. If these safety devices don't work for some reason, steam pressure increases up to a working pressure of safety valve. Then safety valve is opened to discharge steam, and the pressure inside of a pressure vessel doesn't exceed the maximum working pressure. Malfunction of safety valve may cause serious accidents and navigation stop. Safety valve is one of the most important safety device for boiler and exhaust gas economizer, so its malfunction may interfere with safe navigation.

<Daily inspection items of safety valve>

1. Visual inspection (Once a day)

- Are there no steam leakage from safety valve or drip pan?
- Are there no drain water dropping from drain discharge pipe of drip pan or drain port?
- Are there no steam leakage from an outlet side of atmosphere release tube of safety valve (that is typically installed on funnel)?

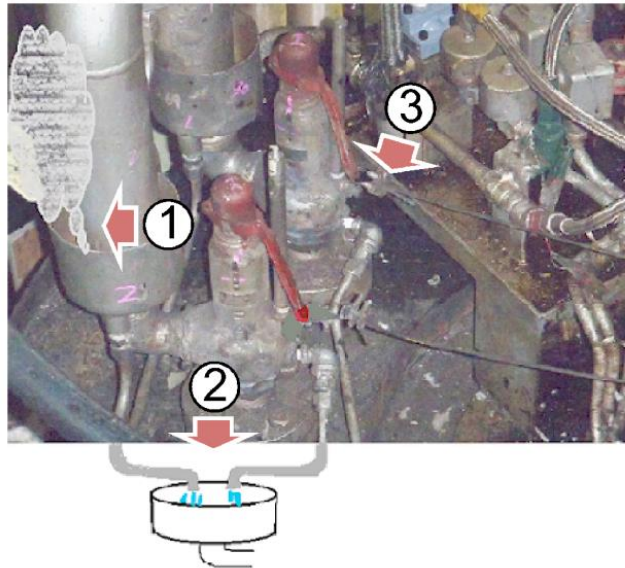
If slight steam leakage from safety valve is neglected, impurities included in boiler water deposit on valve seat or valve body to cause malfunction. That also causes corrosion of springs or valve stem, and it leads to malfunction or blow off below the specified pressure. Malfunction of safety valve may cause supply stop of steam. Prompt action is required.

In case that there are steam leakage or drain water dropping, we recommend replacement of safety valve or overhaul by maker, dockyard or repair shop, which has appropriate inspection equipment.

2. Visual inspection (Once a week)

- Are lifting lever, wire and handle of safety valve normal? Are they operable in case of emergency?
- Are lifting lever and wire connected properly?
- Are wire and handle in proper position?
- Does wire not come off from pulley?

Lifting lever is installed to operate safety valve manually in case of emergency such as steam leakage from boiler body or mounting valves on the boiler and malfunction of safety devices. This lever is connected with wire, and pulling a handle operates safety valve. Please confirm for emergencies that safety valve is always operable.

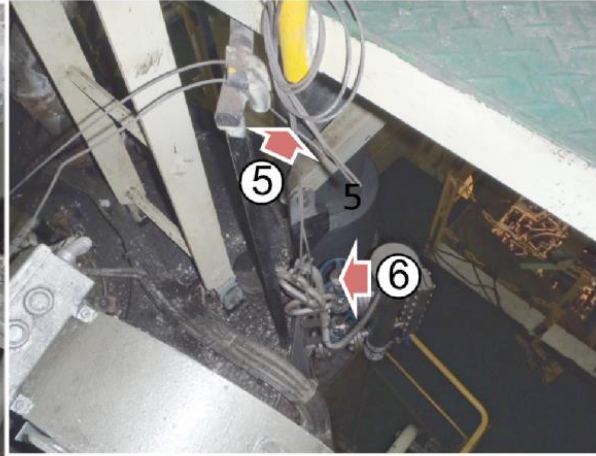


- ①Are there no steam leakage?
- ②Are there no drain water dropping from drain discharge pipe?
- ③Are lifting lever and wire connected properly?



Good Example

- ④Are they always operable quickly?



Bad example

- ⑤Is wire not rounded?
- ⑥Is handle at an easily operable position?

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<https://www.miuraz.co.jp/en/marine/service/network.html>



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We hope to receive your continuous support in the future.