

# **The Bend Tests for Steel Pipes used for Pressure Piping**

## **Amended Rules and Guidance**

Rules for the Survey and Construction of Steel Ships Part K

Guidance for the Survey and Construction of Steel Ships Part K

## **Reason for Amendment**

Regarding the mechanical properties for the steel pipes used for pressure piping, it is specified that tensile tests, flattening tests, bend tests and hydraulic tests are to be performed in 4.2.5, Rules for the Survey and Construction of Steel Ships Part K.

However in related JIS standards, bend tests for such piping are not required. Furthermore, in related ISO standards, if the piping has fulfilled a flattening test, it will be regarded as possessing bend properties that satisfy ISO standards; therefore, no bend test is required as well.

Based on above, it is not necessary for bend tests to be required for the steel pipes used for pressure piping.

Accordingly, the requirements of bend tests have been deleted based on JIS G3454, JIS G3455 JIS G3456 and JIS G3458 which are the JIS standards for the steel pipes used for pressure piping. In addition, it has been specified that small diameter pipes can be subjected to bend tests as a substitute for flattening tests based on such standards.

## **Outline of Amendment**

- (1) With respect to the requirements regarding the mechanical properties of the steel pipes used for pressure piping, the specification that bend tests are required has been deleted.
- (2) It has been specified that small diameter pipes can be subjected to bend tests as a substitute for flattening tests.