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(KHK/JSA)

## **Alternative standard for construction of pressure vessels**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Health, Labour and Welfare, and the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from The High Pressure Gas Safety Institute of Japan (KHK)/ Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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## Alternative standard for construction of pressure vessels

### 1 Scope

**1.1 Pressure vessels within the scope** This Japanese Industrial Standard applies to vessels whose design pressure is less than 100 MPa, whose design temperature is within the creep range, and that holds pressure exceeding the atmospheric pressure, or pressure vessels that experience external pressure (hereafter referred to as “pressure vessels”). This Standard does not include the following pressure vessels.

- a) Those that are included in the scope of other Japanese Industrial Standards<sup>(1)</sup>
- b) Those that are nonmetallic
- c) Those that are related to atomic power
- d) Those that riveted or brazed
- e) Those that are exposed to direct fire
- f) Those that have special structures and uses<sup>(2)</sup>

Notes <sup>(1)</sup> Examples are shown as follows.

Examples	JIS B 8201	<i>Stationary steel boilers —Construction<sup>(3)</sup></i>
	JIS B 8240	<i>Construction of pressure vessels for refrigeration</i>
	JIS B 8241	<i>Seamless steel gas cylinders</i>
	JIS B 8265	<i>Construction of pressure vessel—General principles</i>
	JIS B 8501	<i>Welded steel tanks for oil storage</i>

<sup>(2)</sup> Pressure compartments of rotating machines or reciprocating machines such as hydraulic machines, hydraulic presses, pumps, compressors, turbines, internal combustion engines, hydraulic cylinders, pneumatic cylinders.

<sup>(3)</sup> Waste heat boilers are included in the scope of JIS B 8201 and are outside this Standard.

Remarks : This Standard include pressure vessels whose design pressure is less than 100 MPa, but it may be applied to those whose design pressure is 100 MPa or more, if special technical consideration is given to the following matters: materials used, internal and external surface finish (roughness) of pressure vessels, screws, non-destructive test, etc.