



# **Code for Facilities, Technology and Inspection for Manufacturing of Composite Pressure Vessels for Compressed Hydrogen Gases**

Deliberation/Resolution by Gas Technical Standards Committee : May 17, 2019  
Approval by the Ministry of Trade, Industry & Energy : June 14, 2019



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Code Title	Code for Facilities, Technology and Inspection for Manufacturing of Composite Pressure Vessels for Compressed Hydrogen Gases

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# Code for Facilities, Technology and Inspection for Manufacturing of Composite Pressure Vessels for Compressed Hydrogen Gases

## 1. General

### 1.1 Scope

This Code applies to facilities, technology, inspection and periodic inspection for manufacturing of composite pressure vessels for compressed hydrogen gas of which internal volume is less than 500L (hereinafter referred to as "pressure vessels") among specified facilities in conformity to the High-Pressure Gas Safety Control Act (hereinafter referred to as "Act"), Article 3, Clause 5. <Revised on June 14, 2019>

### 1.2 Validity of Code

**1.2.1** This Code has passed the deliberation and resolution by Gas Technical Standards Committee (Bill No. 2019-4, May 17, 2019) in accordance with the Act, Article 22-2, Clause 2, has been approved by the Minister of Trade, Industry & Energy (Notification No. 2019-375 of the Ministry of Trade, Industry & Energy, June 14, 2019), and is valid and effective as the detailed standards in conformity to the Act, Article 22-2, Clause 1.

**1.2.2** Conformity to this Code is deemed to conform to Table 12 of the Enforcement Regulation of the High-Pressure Gas Safety Control Act (hereinafter referred to as "Enforcement Regulation") in accordance with the Act, Article 22-2, Clause 4.

### 1.3 Reference Codes and Standards

#### 1.3.1 Inspection standard for new technology products

**1.3.1.1** In case the Minister of Trade, Industry & Energy accepts that the pressure vessel does not meet the inspection standard conforming to this Code in accordance with the Enforcement Regulation, Table 12, No. 4-b but does not hinder safety control, such manufacturing and inspection

methods of the pressure vessel may apply only to the pressure vessel.

**1.3.1.2** Pressure vessel inspected by an authorized inspection agency in charge in accordance with an acceptable standard in Table 1.3.1.2 shall be deemed to have been approved by the Minister of Trade, Industry & Energy and may be inspected in accordance with the relevant acceptable standard without the need of applying for exemption from the inspection in conformity to local codes and standards and undergoing subsequent review.

Table 1.3.1.2 Acceptable Foreign Standards and Authorized Inspection Agencies for Foreign Pressure Vessel

Acceptable Standard	Authorized Inspection Agency
ASME SEC.X	AIA (Authorized Inspection Agency) registered in ASME
High-Pressure Gas Safety Security Law of Japan	High-Pressure Gas Safety Institute
Other standards acceptable to the Minister of Knowledge Economy	Inspection agencies acceptable to the Minister of Knowledge Economy

### 1.3.2 Manufacturing registration of foreign pressure vessel

**1.3.2.1** The “manufacturing facility standards and manufacturing technology standards” specified in the Enforcement Regulation, Article 9-2, proviso of Clause 3 means acceptable foreign standards for foreign pressure vessel, etc. in accordance with Table 1.3.1.2.

**1.3.2.2** The foreign pressure vessel shall be manufactured in conformity to the acceptable standards specified in Table 1.3.1.2 in accordance with the Enforcement Decree of High Pressure Gas Safety Control Act, Article 5-2, Clause 2, No. 2 and shall undergo inspection by the relevant authorized inspection agencies.

## 1.4 Definitions

The terms used in this Code are defined as follows. However, the definitions of the terms not made in this Code shall be the same as those used in the Enforcement Regulation of the “Safety Control and Business Regulation of Liquefied Petroleum Gas Act” and the Enforcement Regulation of the “Urban Gas Business Act”, and other terms shall conform to Korean Industrial Standards.

**1.4.1** “Pressure part” means part that maintains pressure over 0Pa at the inner side of pressure