



Code for Facilities, Technology and Inspection for Manufacturing of Welded Cylinders for Portable Gas Stoves

Deliberation/Resolution by Gas Technical Standards Committee : November 15, 2016

Approval by the Ministry of Trade, Industry & Energy : December 15, 2016

Personnel

Gas Technical Standards Committee

Chairman	Dong-Myeong Ha, Professor of Semyung University
Vice-Chairman	Young-Myeong Yang, Technique Center Director of Korea Gas Corporation Technique Center
Ex Officio Member	Young-Ho Lee, Energy Safety Department Manager of the Ministry of Trade, Industry & Energy
	Jae-Soon Oh, Director of Safety Management of Korea Gas Safety Corporation
High-Pressure Gas	Ki-Bong Yoon, Professor of Chung Ang University
	Dong-Myeong Ha, Professor of Se myung University
	Il-Moon, Professor of Yonsei University
	Hyuck-Myun Kwon, Professor of Yonsei University
Liquefied Petroleum Gas	Chang-Eon Lee, Professor of Inha University
	Soon-Geol Lee, Professor of Kyung Hee University
	Mee-Nam Shinn, President of Doosan Fuelcell
	Sung-Sik Park, Auditor of Korea LP Gas Sale Association
	Soo-Dong Byun, CEO of Q best
	Chang-Eon Lee, Professor of Inha University
City gas	Soo-Kyeong Lee, Professor of Seoul National University of

History of Establishment and Revision of KGS Code	
Code No.	KGS AC312 ²⁰¹⁶
Code Title	Code for Facilities, Technology and Inspection for Manufacturing of Welded Cylinders for Portable Gas Cylinders

Date	Item
Dec. 30, 2008	Established (Notification of the Ministry of Knowledge Economy, No. 2008-379)
May 15, 2009	Revised (Notification of the Ministry of Knowledge Economy, No. 2009-193)
June 29, 2009	Revised (Notification of the Ministry of Knowledge Economy, No. 2009-250)
January 6, 2010	Revised (Notification of the Ministry of Knowledge Economy, No. 2009-480)
June 26, 2012	Revised (Notification of the Ministry of Knowledge Economy, No. 2012-313)
December 31, 2013	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2013-353)
August 7, 2015	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2015-436)
December 10, 2015	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2015-641)
July 11, 2016	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2016-354)
December 15, 2016	Revised (Notification of the Ministry of Trade, Industry & Energy, No. 2016-638)
	-hereinafter blank-

Table of Contents

1. General.....	1
1.1 Scope.....	1
1.2 Validity of the Code.....	1
1.3 Reference Codes and Standards.....	1
1.3.1 Inspection standard for new technology products.....	1
1.3.2 Manufacturing registration standard for foreign products.....	2
1.4 Definitions.....	2
1.5 Application of Codes and Standards.....	3
1.6 Interim Measures.....	4
1.7 Restriction to Filling (currently not used).....	4
1.8 Service Life <Revised on August 7, 2015>.....	4
1.9 Change in Manufacturing Registration (currently not used).....	5
1.10 Others.....	5
2. Manufacturing Facility Standard.....	5
2.1 Manufacturing Facilities.....	5
2.2 Inspection Facilities.....	6
3. Manufacturing Technology Standard.....	6
3.1 Design (currently not used).....	6
3.2 Materials.....	7
3.3 Thickness.....	7
3.4 Construction and Dimensions.....	8
3.4.1 Construction.....	8
3.4.2 Dimensions.....	8
3.5 Fabrication (currently not used).....	9
3.6 Welding (currently not used).....	9
3.7 Heat Treatment (not applicable).....	9
3.8 Performance (currently not used).....	9
3.9 Painting (not applicable).....	9
3.10 Attachment of Safety Devices (currently not used).....	9
3.11 Attachment of Accessories.....	9
3.12 Coloring and Marking.....	10
3.12.1 Coloring on external surface of cylinders.....	10

3.12.2 Marking of kinds of gas.....	10
3.12.3 Marking of products.....	10
3.12.4 Marking of acceptance.....	11
4. Inspection Standard	12
4.1 Types of Inspections.....	12
4.1.1 Manufacturing facility inspection.....	12
4.1.2 Product inspection	12
4.2 Object Audit of Process Inspection	14
4.2.1 Application for audit.....	14
4.2.2 Audit method	14
4.2.3 Adjudication committee.....	14
4.3 Inspection Items.....	15
4.3.1 Manufacturing facility inspection.....	15
4.3.2 Product inspection	15
4.4 Inspection Method.....	20
4.4.1 Manufacturing facility inspection.....	20
4.4.2 Product inspection	20
4.5 Other Inspection Standards.....	30
4.5.1 Inspection of imported goods (currently not used)	31
4.5.2 Partial exception from inspection.....	31
4.5.3 Disposal of rejected products.....	31
5. Re-inspection Standard (not applicable).....	32
6. Other Manufacturing and Inspection Standards.....	32
6.1 Exemption of manufacturing registration of foreign cylinders, etc.....	32
Appendix A General Standard for Operation of Quality Control System for Gas Appliance Manufacturing Plants.....	33

Code for Facilities, Technology and Inspection for Manufacturing of Welded Cylinders for Portable Gas Stoves

1. General

1.1 Scope

This code applies to the facilities, technology and inspection for manufacturing of welded cylinders (hereinafter referred to as "cylinders") among cylinders in conformity to the High-Pressure Gas Safety Control Act (hereinafter referred to the "Act"), Article 3, Clause 2.

1.2 Validity of the Code

1.2.1 This code has passed the deliberation and resolution by Gas Technical Standards Committee (Bill No. 2016-8, November 18, 2016) in accordance with the Act, Article 22-2, Clause 2, has been approved by the Minister of Trade, Industry & Energy (Notification No. 2016-638 of the Ministry of Trade, Industry & Energy, December 15, 2016), 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 10 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 Knowledge Economy accepts that the cylinders do not meet the inspection standard conforming to this code in accordance with the Enforcement Regulation, Table 10, No. 4-c but do not hinder safety control as new cylinders developed through new technology development, such manufacturing and inspection methods of those