

SS 608:2015+A2:2020

(ICS 23.040.10; 23.040.15; 91.140.40)

SINGAPORE STANDARD

Code of practice for gas installation

(Formerly CP 51)

Incorporating Amendment No. 1 and 2

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The organisations in which the experts are involved are:

Association of Consulting Engineers Singapore
City Gas Pte Ltd (as Trustee)
Energy Market Authority
Housing & Development Board
Nanyang Technological University
Singapore Civil Defence Force
Singapore Institute of Architects
SP PowerGrid Ltd

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Foreword

This Singapore Standard was prepared by a Working Group appointed by the Technical Committee on Building Maintenance and Management which is under the purview of the Building and Construction Standards Committee.

This Code is a revision of CP 51 : 2004 – ‘Code of practice for manufactured gas pipe installation’ and has been re-numbered as SS 608.

In the revision of this Code, the essential requirements for safe and good practice in gas installation work have been emphasised. The title has been changed from “Manufactured gas pipe installation” to “Gas installation” to reflect its application to both town gas and natural gas. Among the changes introduced are providing:

- a) requirements for:
 - i) gas pipes to pass through bedrooms;
 - ii) gas pipes chased in external walls of bedrooms;
 - iii) gas pipes chased in cavity or porous walls;
 - iv) gas appliance commissioning.
- b) a typical example of an installation system requiring the use of ancillaries and interlocking system.
- c) requirements for radiography examination in compliance to API 1104 standard.
- d) requirements for records of reports for testing, commissioning and maintenance to be kept.
- e) updated annexes and illustrating figures.

In preparing this Code, reference was made to the overseas publications given in the bibliography.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as “Mature standards”. Mature Standards will not be subject to further review, unless there are requests to review such standards.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

Code of practice for gas installation

1 Scope and application

1.1 Scope

This Code specifies the essential requirements for the safe and good practices in gas service work. It concerns the gas installation downstream of the gas service isolation valve (GSIV). It is applicable for the conveyance of town gas or natural gas of up to 50 kPa gauge.

This Code covers design, materials, installation, testing, commissioning and maintenance of the gas installations and appliances. The Code is applicable to new gas installations as well as addition and alteration to existing gas installations.

1.2 Application and use

This Code is intended for use by competent persons holding valid licences or practising certificates issued by the relevant authorities.

The Code does not give exemption from statutory requirements in government laws or from relevant regulations of Government departments.

2 Normative references

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Specification 5L	American Petroleum Institute – Specification for line pipe
API 1104	American Petroleum Institute – Welding of pipeline and related facilities
BS 143 and BS 1256	Threaded pipe fittings in malleable cast iron and cast copper alloy
BS 381C	Specification for colours for identification, coding and special purposes
BS EN 124	Gully tops and manhole tops for vehicular and pedestrian areas – Design requirements, type testing, marking, quality control
BS EN 331	Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings
BS EN 969	Ductile iron pipes, fittings, accessories and their joints for gas pipelines – Requirements and test methods
BS EN 1057	Copper and copper alloys – Seamless, round copper tubes for water and gas in sanitary and heating applications
BS EN 1092-1	Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, PN designated. Steel flanges
BS EN 1171	Industrial valves – Cast iron gate valves
BS EN 1254-1	Copper and copper alloys – Plumbing fittings – Fittings with ends for capillary soldering or capillary brazing to copper tubes