



IGEM Standards

November 2021



*Founded 1863
Royal Charter 1929
Patron: Her Majesty the Queen*



ABOUT IGEM STANDARDS

Since the 1960s, IGEM has published technical Standards that are now recognised as trusted industry Standards, used to assist in compliance with national legislation and official approved codes of practice and guidance. IGEM Standards relate to aspects of the Pipelines Safety Regulations; Pressure Systems Safety Regulations; Gas Safety (Management) Regulations; Gas Safety (Installation and Use) Regulations; Dangerous Substances and Explosive Atmospheres Regulations; Reporting of Injuries, Diseases and Dangerous Occurrences Regulations; Building Regulations; Health and Safety at Work etc. Act; Management of Health and Safety at Work Regulations; Pressure Equipment Regulations, Electricity at Work Regulations and so on.

The Standards are drafted by expert Panels representing a cross-section of the relevant parts of the gas industry. Regulatory bodies such as HSE, Ofgem and Gas Safe Register contribute to the drafting process. The drafts are issued to the industry and other stakeholders for review and comment prior to publication and, thus, take into account the sometimes broad range of views on the content. The professional status of IGEM ensures its Standards reflect the best possible levels of safety, practice and quality within reasonable cost.

In general, IGEM Standards and guidance documents do not overlap the scope of British Standards (BS) but they do often mirror the scope of British European Standards (BS EN) adding much more detail in many cases. There is no intent to contradict other such standards, and it is IGEM's policy to ensure this does not occur.

IGEM's Standards and guidance documents are mostly available in hard copy. IGEM does also offer online access to the standards, the benefits of this service are:

- the Standards are always up to date
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- the company does not have to manage a 'library'
- is accessible through the internet, so not confined to the office
- a help page is provided.

The price of this service is determined by what standards are required, for how many users.

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ABOUT THIS LIST

The list uses the following terms:

Edition X Where an edition number is stated, the previous edition is superseded i.e. not current and is obsolete.

Set of Amendments The edition is issued with separate amendments to bring it up to date. These amendments are issued with every Standard purchased but, where this was purchased prior to issue of amendments, they are available for downloading from the IGEM website at www.igem.org.uk or by email to technical@igem.org.uk.

Reprint with Amendments The edition has been reprinted to contain amendments (and enhancements If applicable). Owners of the previous version of the same edition will have to insert amendments (see above) to bring that version up to date. It is not essential to insert enhancements.

Nth Refers to a re-print with enhancements. Previous impressions remain current.

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IGEM STANDARDS

ITEM and EDITION	TITLE (COMMUNICATION NO.)	DATE	STANDARD 2021 PRICE £	MEMBER/IA 2021 PRICE £
HYDROGEN				
IGEM/H/1	Reference Standard for low pressure hydrogen utilisation (1835) Download for free at www.igem.org.uk	2021	FREE	FREE
TRANSMISSION AND DISTRIBUTION				
IGEM/TD/1 Ed 6	Steel pipelines for high pressure gas transmission (1848)	2021	355	237.85
IGEM/TD/1 Ed 6 Supplement 2	High pressure Hydrogen pipelines (1849)	2021	100	67
IGEM/TD/1 Ed 5 Supp 1 Ed 2	Handling, transport and storage of steel pipe, bends and fittings (1825)	2018	90	60.30
IGEM/TD/2 Ed 2 with Amendments July 2015	Assessing the risks from high pressure Natural Gas pipelines (1779)	2015	155	103.85
IGEM/TD/3 Ed 5	Steel and PE pipelines for gas distribution (1770)	2014	235	157.45
IGEM/TD/4 Ed 4 with Amendments November 2013	PE and steel gas services and service pipework (1725)	2013	235	157.45
IGEM/TD/12 Ed 3	Pipework stress analysis for gas industry plant (1834)	2021	195	130.65
IGEM/TD/13 Ed 2	Pressure regulating installations for Natural Gas, Liquefied Petroleum Gas and Liquefied Petroleum Gas/Air (1755)	2011	305	204.35
IGEM/TD/13 Ed 2 Supplement 1	Pressure regulating installations for hydrogen at pressures exceeding 7 bar (1850)	2021	100	67
IGEM/TD/16 Ed 2	Biomethane injection (1833)	2019	125	83.75
IGEM/TD/17	Steel and PE pipelines for biogas distribution (1769)	2014	90	63.30
IGEM/TD/19	Reinforced thermoplastic pipelines for high pressure gas transmission (1812)	2019	120	80.40
IGEM/TD/101 Ed 3	Adoption of pipe systems by a GT - management of UIP activities (1802)	2018	120	80.40
IGEM/TD/102	Competence framework (1761)	2012	120	80.40
GAS MEASUREMENT				
IGEM/GM/4 Ed 3	Flowmetering practices. Inlet pressure exceeding 38 bar and not exceeding 100 bar (1815)	2019	225	150.75
IGEM/GM/5 Ed 3	Electronic gas meter volume conversion systems (1730)	2008	145	97.15
IGEM/GM/6 Ed 2	Non-domestic meter installations. Standard designs (1750)	2011	225	150.75
IGEM/GM/7A Ed 2	Electrical connections for gas metering equipment (1803)	2018	125	83.75
IGEM/GM/7B Ed 2	Hazardous area classification for gas metering equipment (1804)	2018	160	107.20
IGEM/GM/8 Part 1 Ed 2	Non-domestic meter installations: Flow rate exceeding 6 m ³ h ⁻¹ and inlet pressure not exceeding 38 bar Design (1795)	2016	235	157.45
IGEM/GM/8 Part 2 Ed 2	Locations, housings and compounds (1796)	2016	120	80.40
IGEM/GM/8 Part 3 Ed 2	Fabrication, installation, testing and commissioning (1797)	2016	145	97.15
IGEM/GM/8 Part 4 Ed 2	Operation and maintenance (1798)	2016	120	80.40
IGEM/GM/8 Part 5 Ed 2	Notices and labels (1799)	2016	120	80.40
IGEM/GM/PRS/1	Meter Installation fittings (1793)	2017	135	90.45
IGEM/GM/PRS/3 with amendments July 2019	Meter Regulators for gas flow rates not exceeding 6m ³ h ⁻¹ and inlet pressures not exceeding 75 mbar (1805)	2017	85	56.95
IGEM/GM/PRS/6	Meter connectors (1794)	2016	110	73.70
IGEM/GM/PRS/28	Medium pressure single-stage regulators for gas flow rates not exceeding 6m ³ h ⁻¹ (1791)	2016	120	80.40
IGEM/GM/PRS/29	Medium pressure two-stage meter regulators for gas flow rates not exceeding 6m ³ h ⁻¹ (1790)	2016	120	80.40
IGEM/GM/PRS/33	Meter regulators of nominal diameter 32mm (1 1/4 inch) and not exceeding 150mm (6 inch) and for inlet pressures not exceeding 75 mbar (1792)	2016	85	56.95
IGEM/GM/PRS/40	Medium pressure meter installation kits for flow rates not exceeding 6 m ³ h ⁻¹ (1807)	2019	120	80.40

IGEM/GM/PRS/41	Low pressure meter installation kits (1808)	2019	120	80.40
IGEM/GM/PRS/50	Meter and converter serial numbering and model names (1811)	2019	85	56.95

UTILISATION				
IGE/UP/1 Ed 2 Reprint with Amendments March 2005	Strength testing, tightness testing and direct purging of industrial and commercial gas installations (1716)	2005	165	110.55
IGE/UP/1A Ed 2 Reprint with Amendments March 2005	Strength and tightness testing and direct purging of small low pressure industrial and commercial Natural Gas installations (1717)	2005	155	103.85
IGEM/UP/1B Ed 3 with Amendments October 2012	Tightness testing and direct purging of small Liquefied Petroleum Gas/Air, Natural Gas and Liquefied Petroleum Gas installations. (1759). Set of amendments issued 2012	2012	155	103.85
IGEM/UP/1C	Strength testing, tightness testing and direct purging of Natural Gas and LPG meter installations (1751)	2011	125	83.75
IGEM/UP/2 Ed 3	Installation pipework on industrial and commercial premises (1771)	2014	300	201.00
IGEM/UP/3 Ed 3	Gas fuelled spark ignition and dual fuel engines (1781)	2015	145	97.15
IGEM/UP/4 Ed 4	Commissioning of gas fired plant on industrial and commercial premises (1801)	2016	90	60.30
IGEM/UP/6 Ed 3	Application of compressors to Natural Gas fuel systems (1813)	2020	145	97.15
IGE/UP/7 Ed 2 with Amendments October 2008	Gas installations in timber framed and light steel framed buildings (1722). Set of amendments issued 2008. Download for free at www.igem.org.uk	2006	145	97.15
IGE/UP/9 Ed 2	Application of Natural Gas and fuel oil systems to gas turbines and supplementary and auxiliary fired burners (1705)	2004	145	97.15
IGEM/UP/10 Ed 4 with Amendments March 2016 and February 2017	Installation of flued gas appliances in industrial and commercial premises (1800)	2017	215	144.05
IGEM/UP/11 Ed 3	Gas installations for educational establishments (1821)	2018	125	83.75
IGEM/UP/12 Ed 2	Application of burners and controls to gas fired process plant (1778)	2015	205	137.35
IGEM/UP/16 Ed 2	Design for Natural Gas installations on industrial and commercial premises with respect to DSEAR (1824)	2020	120	80.40
IGEM/UP/17 Edition 2	Shared chimney and flue systems for domestic gas appliances (1826)	2018	155	103.85
IGEM/UP/18	Gas installations for vehicle repair and body shops (1758)	2012	90	60.30
IGEM/UP/19 with Amendments January 2015	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777).	2015	125	83.75
IGEM/UP/20	CNG Fuelling Stations (1775)	2014	150	100.50
GAS LEGISLATION				
IGE/GL/1 Ed 2	Planning of gas distribution systems of MOP not exceeding 16 bar (1718)	2005	125	83.75
IGEM/GL/2 Ed 3	Planning of transmission and storage systems operating at pressures exceeding 16 bar (1816)	2018	90	60.30
IGEM/GL/4 Ed 3	Gas system assets – safety management system (1820)	2018	125	83.75
IGEM/GL/5 Ed 3	Procedures for managing new works, modifications and repairs (1783)	2015	110	73.70
IGEM/GL/6 Ed 3	Safe Control of Operations for Gas Networks (1814)	2018	145	97.45
IGEM/GL/8 Ed 3	Reporting and investigation of gas related-incidents (1776)	2014	145	97.15
IGEM/GL/9 Ed 2	Guidance for large consumers in dealing with Natural Gas supply emergencies. (1806) Download at www.igem.org.uk	2018	FREE	FREE
GENERAL				
IGEM/G/0	A standard for IGEM standards (1782)	2018	FREE	FREE
IGEM/G/1 Ed 2	Defining the end of the Network, a meter installation and installation pipework (1765). Download for free at www.igem.org.uk	2013	125	83.75
IGEM/G/5 Ed 2	Gas installations in multi-occupancy buildings (1762)	2012	200	134.00
IGEM/G/4 Ed 2	Definitions for the gas industry (1763)	2012	FREE	FREE
IGEM/G/6	Gas supplies to mobile dwellings (1728)	2009	120	80.40
IGEM/G/7	Risk assessment techniques (1655)	2016	170	113.90
IGEM/G/8	Handling, transport and storage of PE pipe and fittings (1749)	2010	120	80.40
IGEM/G/10	Non-return valves (1785)	2016	85	56.95

IGEM/G/11 Edition 2	Gas Industry Unsafe Situations Procedure (1840). Hard copy of this document is available at https://gassafetyshop.co.uk/	2020	50	50
IGEM/G/11 Edition 2	Gas Industry Unsafe Situations Procedure Download for free at www.igem.org.uk	2020	FREE	FREE
SAFETY				
IGEM/SR/4 Ed 3	Variable volume gasholders storing lighter than air gases (1752)	2011	175	117.25
IGEM/SR/14 Ed 2	Fixed volume storage for lighter than air gases (1742)	2010	145	97.15
IGEM/SR/15 Ed 5 with Amendments November 2015	Integrity of safety-related systems in the gas industry (1746). Set of amendments issued 2015	2015	160	107.20
IGEM/SR/16 Ed 2	Odorant systems for gas transmission and distribution (1734)	2008	120	80.40
IGEM/SR/18 Ed 3	Safe working practices to ensure the integrity of gas assets and associated installations (1828)	2019	90	60.30
IGE/SR/22 2nd Impression	Purging operations for fuel gases in transmission, distribution and storage (1625)	1999	125	83.75
IGE/SR/23 2nd Impression	Venting of Natural Gas (1623)	1995	125	83.75
IGEM/SR/25 Ed 2 with Amendments	Hazardous area classification of Natural Gas installations (1748). Set of amendments issued 2013	2013	250	167.50
IGEM/SR/28 Ed 2	Trenchless techniques (1753)	2011	174	116.85
IGEM/SR/29 Ed 2	Dealing with gas escapes (1827)	2019	120	80.40
INDUSTRY GUIDANCE				
IGEM/UP/1101	Guidance on gas installations for the management and staff within educational establishments (1745). Download for free at www.igem.org.uk	2010	25	16.75
IGEM/IG/1 Edition 2	Standards of training in gas work (1839). Download for free at www.igem.org.uk	2021	30	20.10
IGEM/IG/1 Supplement 1	Non domestic training specification (1788). Download for free at www.igem.org.uk	2016	30	20.10
IGEM/IG/2	Catering equipment engineers guide to relevant sections of IGE/UP/19 (1772). Download for free at www.igem.org.uk	2014	25	16.75
CERTIFICATES OF STRENGTH AND TIGHTNESS TESTING AND DIRECT PURGING TO IGE/UP/1 EDITION 2 AND IGE/UP/1A EDITION 2 (shrink wrapped pads of 25 triplicate certificates)				
S_tT/UP/1A	Certificate of strength testing for IGE/UP/1A	2004	25	16.75
TT/UP/1A	Certificate of tightness testing for IGE/UP/1A	2004	25	16.75
DP/UP/1A	Certificate of direct purging for IGE/UP/1A	2004	25	16.75
S_tT/UP/1	Certificate of strength testing for IGE/UP/1	2004	25	16.75
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Ed = Edition. Imp = Impression. Supp = Supplement.

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IGEM/TD/1 Ed 5 Supp 1		IGEM/GM/PRS/3		IGEM/UP/17 Ed 2		IGEM/SR/4 Ed 3	
IGEM/TD/2 Ed 2		IGEM/GM/PRS/6		IGEM/UP/18		IGEM/SR/14 Ed 2	
IGEM/TD/3 Ed 5		IGEM/GM/PRS/28		IGEM/UP/19		IGEM/SR/15 Ed 5	
IGEM/TD/4 Ed 4		IGEM/GM/PRS/29		IGEM/UP/20		IGEM/SR/16 Ed 2	
IGEM/TD/12 Ed 3		IGEM/GM/PRS/33		IGEM/UP/1101		IGEM/SR/18 Ed 3	
IGEM/TD/13 Ed 2		IGEM/GM/PRS/40		IGEM/GL/1 Ed 2		IGEM/SR/22	
IGEM/TD/13 Ed 2 Supplement 1						IGEM/SR/23	
IGEM/TD/16 Ed 2		IGEM/GM/PRS/41		IGEM/GL/2 Ed 3		IGEM/SR/25 Ed 2	
IGEM/TD/17		IGEM/GM/PRS/50		IGEM/GL/4 Ed 3		IGEM/SR/28 Ed 2	
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IGEM/GM/8 Part 3 Ed 2		IGEM/UP/10 Ed 4		IGEM/G/8		IGEM/IG/2	
IGEM/GM/8 Part 4 Ed 2		IGEM/UP/11 Ed 3		IGEM/G/10			

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