

IGEM Standards

June 2017



*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 all 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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- new publications onto the system are notified on the Home page
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The price of this service is determined by what standards are required, for how many users and for how long (typically terms of 12 months or 3 years are offered).

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The scopes for all of the standards are also available on the IGEM website <http://www.igem.org.uk/technical-standards/introduction.aspx>

ABOUT THIS LIST

The list uses the following terms:

Edition X	Where an edition number is stated, the previous edition is superseded i.e. is 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 (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.

IGEM STANDARDS

ITEM and EDITION	TITLE (COMMUNICATION NO.)	DATE	STANDARD 2017 PRICE £	MEMBER/IA 2017 PRICE £
TRANSMISSION AND DISTRIBUTION				
IGEM/TD/1 Ed 5	Steel pipelines for high pressure gas transmission (1735)	2008	293	196
IGEM/TD/1 Ed 5 Amendments	Set of amendments 2009,2010, 2016 (1735) Download at www.igem.org.uk	2016	Free	Free
IGEM/TD/1 Ed 5 with amendments July 2016	Steel pipelines for high pressure gas transmission (1789)	2016	Online Access	Online Access
IGEM/TD/1 Ed 5 Supp 1	Handling, transport and storage of steel pipe, bends and fittings (1736)	2008	74	50
IGEM/TD/2 Ed 2	Assessing the risks from high pressure Natural Gas pipelines (1764)	2013	127	85
IGEM/TD/2 Ed 2 Amendments	Set of Amendments 2015 (1764) Download at www.igem.org.uk	2015	Free	Free
IGEM/TD/2 Ed 2 with amendments July 2015	Assessing the risks from high pressure Natural Gas pipelines (1779)	2015	Online Access	Online Access
IGEM/TD/3 Ed 5	Steel and PE pipelines for gas distribution (1770)	2014	193	129
IGEM/TD/3 Ed 5 Amendments	Set of Amendments 2015(1770) Download at www.igem.org.uk	2015	Free	Free
IGEM/TD/3 Ed 5 with Amendments Oct 2015	Steel and PE pipelines for gas distribution (1780)	2015	Online Access	Online Access
IGEM/TD/4 Ed 4	PE and steel gas services and service pipework (1725)	2007	193	129
IGEM/TD/12 Ed 2 Reprint with Amendments 2012	Pipework stress analysis for gas industry plant (1757)	2012	156	105
IGEM/TD/13 Ed 2	Pressure regulating installations for Natural Gas, Liquefied Petroleum Gas and Liquefied Petroleum Gas/Air (1755)	2011	249	167
IGEM/TD/16	Biomethane injection (1768)	2014	102	68
IGEM/TD/17	Steel and PE pipelines for biogas distribution (1769)	2014	74	50
IGEM/TD/101 Ed 2	Adoption of pipe systems by a GT - management of UIP activities (1740)	2009	94	63
IGEM/TD/102	Competence framework (1761)	2012	94	63
GAS MEASUREMENT				
IGEM/GM/4 Ed 2	Flowmetering practices. Inlet pressure exceeding 38 bar and not exceeding 100 bar (1719)	2006	185	124
IGEM/GM/5 Ed 3	Electronic gas meter volume conversion systems (1730)	2008	117	78
IGEM/GM/6 Ed 2	Non-domestic meter installations. Standard designs (1750)	2011	185	124
IGEM/GM/7A	Electrical connections for gas metering equipment (1731)	2008	127	85
IGEM/GM/7B	Hazardous area classification for gas metering equipment (1732)	2008	102	68
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	193	129
IGEM/GM/8 Part 2 Ed 2	Locations, housings and compounds (1796)	2016	94	63
IGEM/GM/8 Part 3 Ed 2	Fabrication, installation, testing and commissioning (1797)	2016	117	78
IGEM/GM/8 Part 4 Ed 2	Operation and maintenance (1798)	2016	94	63
IGEM/GM/8 Part 5 Ed 2	Notices and labels (1799)	2016	94	63
IGEM/GM/PRS/1	Meter Installation fittings (1793)	2017	107	71
IGEM/GM/PRS/3	Meter Regulators for gas flow rates not exceeding 6m ³ h ⁻¹ and inlet pressures not exceeding 75 mbar (1805)	2017	72	48
IGEM/GM/PRS/6	Meter connectors (1794)	2016	88	58
IGEM/GM/PRS/28	Medium pressure single-stage regulators for gas flow rates not exceeding 6m ³ h ⁻¹ (1791)	2016	96	64
IGEM/GM/PRS/29	Medium pressure two-stage meter regulators for gas flow rates not exceeding 6m ³ h ⁻¹ (1790)	2016	96	64
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	69	46
UTILISATION				
IGEM/UP/1 Ed 2 Reprint with Amendments	Strength testing, tightness testing and direct purging of industrial and commercial gas installations (1716)	2005	134	90
IGEM/UP/1 Ed 2 Amendments	Set of amendments 2005 (1683) Download at www.igem.org.uk	2005	Free	Free
IGEM/UP/1A Ed 2 Reprint with Amendments	Strength and tightness testing and direct purging of small low pressure industrial and commercial Natural Gas installations (1717)	2005	107	72
IGEM/UP/1A Ed 2 Amendments	Set of amendments 2005 (1701) Download at www.igem.org.uk	2005	Free	Free

IGEM/UP/1B Ed 3	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	124	83
IGEM/UP/1B Ed 3 Amendments	Set of amendments 2012 (1759) Download at www.igem.org.uk	2012	Free	Free
IGEM/UP/1C	Strength testing, tightness testing and direct purging of Natural Gas and LPG meter installations (1751)	2011	102	68
IGEM/UP/2 Ed 3	Installation pipework on industrial and commercial premises (1771)	2014	243	163
IGEM/UP/3 Ed 3	Gas fuelled spark ignition and dual fuel engines (1781)	2015	117	78
IGEM/UP/4 Ed 4	Commissioning of gas fired plant on industrial and commercial premises (1801)	2016	73	49
IGEM/UP/6 Ed 2	Application of compressors to Natural Gas fuel systems (1741)	2009	117	78
IGEM/UP/7 Ed 2	Gas installations in timber framed and light steel framed buildings (1722). Set of amendments issued 2008	2006	117	78
IGEM/UP/9 Ed 2	Application of Natural Gas and fuel oil systems to gas turbines and supplementary and auxiliary fired burners (1705)	2004	117	78
IGEM/UP/10 Ed 4 with amendments 2017	Installation of flued gas appliances in industrial and commercial premises (1800)	2017	175	117
IGEM/UP/10 Ed 4 Amendments	Set of amendments 2016 (1786) Download at www.igem.org.uk	2017	Free	Free
IGEM/UP/11 Ed 2	Gas installations for educational establishments (1744)	2010	98	66
IGEM/UP/12 Ed 2	Application of burners and controls to gas fired process plant (1778)	2015	167	112
IGEM/UP/12 Ed 2 Amendments	Set of amendments 2009 (1778) Download at www.igem.org.uk	2009	Free	Free
IGEM/UP/16	Design for Natural Gas installations on industrial and commercial premises with respect to hazardous area classification and preparation of risk assessments (1756) Set of amendments issued 2013	2011	117	78
IGEM/UP/16 Amendments	Set of amendments 2013 (1756) Download at www.igem.org.uk	2013	Free	Free
IGEM/UP/17	Shared chimney and flue systems for domestic gas appliances (1754)	2011	124	83
IGEM/UP/18	Gas installations for vehicle repair and body shops (1758)	2012	73	49
IGEM/UP/19	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777)	2015	102	68
IGEM/UP/19 Amendments	Set of Amendments 2015 (1777)	2015	Free	Free
IGEM/UP/19 with Amendments Jan 2015	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777)	2015	Online Access	Online Access
IGEM/UP/20	CNG Fuelling Stations (1775)	2014	122	82
GAS LEGISLATION				
IGEM/GL/1 Ed 2	Planning of gas distribution systems of MOP not exceeding 16 bar (1718)	2005	102	68
IGEM/GL/2 Ed 2	Planning of transmission and storage systems operating at pressures exceeding 16 bar (1727)	2007	73	49
IGEM/GL/4 Ed 2	Gas system assets – risk management (1743)	2010	73	49
IGEM/GL/5 Ed 3	Procedures for managing new works, modifications and repairs (1783)	2015	88	59
IGEM/GL/6 Ed 2	Permitry for the safe flow of gas (1747)	2010	94	63
IGEM/GL/8 Ed 3	Reporting and investigation of gas related-incidents (1776)	2007	117	78
IGEM/GL/9	Guidance for large consumers in dealing with Natural Gas supply emergencies. (1724) Download at www.igem.org.uk	2006	Free	Free
GENERAL				
IGEM/G/0	A Standard for Igem Standards (1782).	2015	Free	Free
IGEM/G/1 Ed 2	Defining the end of the Network, a meter installation and installation pipework (1765). Download at www.igem.org.uk	2013	94	63
IGEM/G/4 Edition 2	Definitions for the gas industry (1763). Download at www.igem.org.uk	2012	Free	Free
IGEM/G/5 Ed 2	Gas installations in multi-occupancy buildings (1762)	2012	163	109
IGEM/G/6	Gas supplies to mobile dwellings (1728)	2009	94	63
IGEM/G/7	Risk assessment techniques (1655)	2016	137	92
IGEM/G/8	Handling, transport and storage of PE pipe and fittings (1749)	2010	94	63
IGEM/G/10	Non-return valves (1785)	2016	71	48
SAFETY				
IGEM/SR/4 Ed 3	Variable volume gasholders storing lighter than air gases (1752)	2011	141	94
IGEM/SR/14 Edition 2	Fixed volume storage for lighter than air gases (1742)	2010	117	78
IGEM/SR/15 Ed 5	Integrity of safety-related systems in the gas industry (1746)	2010	127	85
IGEM/SR/15 Ed 5 Amendments	Set of Amendments 2015 (1746) Download at www.igem.org.uk	2015	Free	Free
IGEM/SR/15 Ed 5 with Amendments Dec 2015	Integrity of safety-related systems in the gas industry (1784)	2015	Online Access	Online Access
IGEM/SR/16 Ed 2	Odorant systems for gas transmission and distribution (1734)	2008	94	63

IGE/SR/18 Ed 2	Safe working practices to ensure the integrity of gas pipelines and associated installations (1678)	2002	73	49
IGE/SR/22 3rd Impression	Purging operations for fuel gases in transmission, distribution and storage (1625)	1999	102	68
IGE/SR/23 2nd Impression	Venting of Natural Gas (1623)	1995	102	68
IGEM/SR/25 Ed 2	Hazardous area classification of Natural Gas installations (1748)	2010	205	137
IGEM/SR/25 Amendments	Set of amendments 2013 (1748) Download at www.igem.org.uk	2013	Free	Free
IGEM/SR/28 Ed 2	Trenchless techniques (1753)	2011	141	94
IGEM/SR/29	Dealing with gas escapes (1760)	2012	94	63
INDUSTRY GUIDANCE				
IGEM/UP/1101	Guidance on gas installations for the management and staff within educational establishments (1745)	2010	22	15
IGEM/G/101	Onshore natural gas extraction and route to use (1766)	2013	Free	Free
IGEM/IG/1	Standards of training in gas work Download at www.igem.org.uk (1767)	2014	23	16
IGEM/IG/1 Supp 1	Non Domestic Training Specification (1788) Download at www.igem.org.uk	2016	23	16
IGEM/IG/2	Catering equipment engineers guide to relevant sections of IGE/UP/19 Download at www.igem.org.uk (1772)	2014	22	15
ONSITE GUIDES				
NICEIC	Domestic gas safety onsite guide- part 1 and 2 V4	2015	48	48
NICEIC	Non-Domestic gas safety onsite guide part1 and 2 V5	2015	48	48
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)				
ST/UP/1A	Certificate of strength testing for IGE/UP/1A	2004	22	15
TT/UP/1A	Certificate of tightness testing for IGE/UP/1A	2004	22	15
DP/UP/1A	Certificate of direct purging for IGE/UP/1A	2004	22	15
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Ed = Edition. Imp = Impression. Supp = Supplement.

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IGEM/TD/102		IGE/UP/7 Ed 2		IGEM/G/4 Ed 2		DP/UP/1	
IGE/GM/4 Ed 2		IGE/UP/9 Ed 2		IGEM/G/5 Ed 2		IGEM/G/101	
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IGEM/GM/6 Ed 2		IGEM/UP/11 Ed 2		IGEM/G/7		IGEM/IG/1 Supp 1	
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IGEM/GM/7B		IGEM/UP/16		IGEM/G/10		IGEM/IG/2	
IGE/GM/8 Part 1		IGEM/UP/17		IGEM/SR/4 Ed 3		NICEIC Domestic on-site	
IGE/GM/8 Part 2 Ed 2		IGEM/UP/18		IGEM/SR/14 Ed 2		NICEIC Non domestic on-site guide	
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