

# ***IGEM Standards***

***July 2018***



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## 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.

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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**Edition X** Where an edition number is stated, the previous edition is superseded i.e. is not current and is obsolete.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](http://www.igem.org.uk)) or by email to [technical@igem.org.uk](mailto:technical@igem.org.uk).

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**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 2017 PRICE £	MEMBER/IA 2017 PRICE £
<b>TRANSMISSION AND DISTRIBUTION</b>				
IGEM/TD/1 Ed 5	Steel pipelines and associated installations for high pressure gas transmission (1735)	2008	302	202
IGEM/TD/1 Ed 5 Amendments	Set of amendments 2009,2010, 2016 (1735) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	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 Ed 2	Handling, transport and storage of steel pipe, bends and fittings (1825)	2018	76	52
IGEM/TD/2 Ed 2	Assessing the risks from high pressure Natural Gas pipelines (1764)	2013	131	88
IGEM/TD/2 Ed 2 Amendments	Set of Amendments 2015 (1764) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	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	199	133
IGEM/TD/3 Ed 5 Amendments	Set of Amendments 2015(1770) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	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	199	133
IGEM/TD/12 Ed 2 Reprint with Amendments 2012	Pipework stress analysis for gas industry plant (1757)	2012	161	108
IGEM/TD/13 Ed 2	Pressure regulating installations for Natural Gas, Liquefied Petroleum Gas and Liquefied Petroleum Gas/Air (1755)	2011	256	172
IGEM/TD/16	Biomethane injection (1768)	2014	105	70
IGEM/TD/17	Steel and PE pipelines for biogas distribution (1769)	2014	76	51
IGEM/TD/101 Ed 2	Adoption of pipe systems by a GT – management of UIP activities (1740)	2009	97	65
IGEM/TD/102	Competence framework (1761)	2012	97	65
<b>GAS MEASUREMENT</b>				
IGEM/GM/4 Ed 2	Flowmetering practices. Inlet pressure exceeding 38 bar and not exceeding 100 bar (1719)	2006	191	128
IGEM/GM/5 Ed 3	Electronic gas meter volume conversion systems (1730)	2008	121	80
IGEM/GM/6 Ed 2	Non-domestic meter installations. Standard designs (1750)	2011	191	128
IGEM/GM/7A Ed 2	Electrical connections for gas metering equipment (1803)	2018	105	70
IGEM/GM/7B Ed 2	Hazardous area classification for gas metering equipment (1804)	2018	131	88
IGEM/GM/8 Part 1 Ed 2	<b>Non-domestic meter installations.</b> Flow rate exceeding 6 m <sup>3</sup> h <sup>-1</sup> and inlet pressure not exceeding 38 bar Design (1795)	2016	199	133
IGEM/GM/8 Part 2 Ed 2	Locations, housings and compounds (1796)	2016	97	65
IGEM/GM/8 Part 3 Ed 2	Fabrication, installation, testing and commissioning (1797)	2016	121	80
IGEM/GM/8 Part 4 Ed 2	Operation and maintenance (1798)	2016	97	65
IGEM/GM/8 Part 5 Ed 2	Notices and labels (1799)	2016	97	65
IGEM/GM/PRS/1	Meter Installation fittings (1793)	2017	110	73
IGEM/GM/PRS/3	Meter Regulators for gas flow rates not exceeding 6m <sup>3</sup> h <sup>-1</sup> and inlet pressures not exceeding 75 mbar (1805)	2017	74	49
IGEM/GM/PRS/6	Meter connectors (1794)	2016	91	60
IGEM/GM/PRS/28	Medium pressure single-stage regulators for gas flow rates not exceeding 6m <sup>3</sup> h <sup>-1</sup> (1791)	2016	99	66
IGEM/GM/PRS/29	Medium pressure two-stage meter regulators for gas flow rates not exceeding 6m <sup>3</sup> h <sup>-1</sup> (1790)	2016	99	66
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	71	47
<b>UTILISATION</b>				
IGEM/UP/1 Ed 2 Reprint with Amendments	Strength testing, tightness testing and direct purging of industrial and commercial gas installations (1716)	2005	138	93
IGEM/UP/1 Ed 2 Amendments	Set of amendments 2005 (1683) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2005	Free	Free

<b>IGEM/UP/1A Ed 2 Reprint with Amendments</b>	Strength and tightness testing and direct purging of small low pressure industrial and commercial Natural Gas installations (1717)	2005	110	74
<b>IGEM/UP/1A Ed 2 Amendments</b>	Set of amendments 2005 (1701) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2005	Free	Free

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<b>IGEM/UP/1B Ed 3</b>	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	128	85
<b>IGEM/UP/1B Ed 3 Amendments</b>	Set of amendments 2012 (1759) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2012	Free	Free
<b>IGEM/UP/1C</b>	Strength testing, tightness testing and direct purging of Natural Gas and LPG meter installations (1751)	2011	105	70
<b>IGEM/UP/2 Ed 3</b>	Installation pipework on industrial and commercial premises (1771)	2014	250	168
<b>IGEM/UP/3 Ed 3</b>	Gas fuelled spark ignition and dual fuel engines (1781)	2015	121	80
<b>IGEM/UP/4 Ed 4</b>	Commissioning of gas fired plant on industrial and commercial premises (1801)	2016	75	50
<b>IGEM/UP/6 Ed 2</b>	Application of compressors to Natural Gas fuel systems (1741)	2009	121	80
<b>IGEM/UP/7 Ed 2</b>	Gas installations in timber framed and light steel framed buildings (1722). Set of amendments issued 2008	2006	121	80
<b>IGEM/UP/9 Ed 2</b>	Application of Natural Gas and fuel oil systems to gas turbines and supplementary and auxiliary fired burners (1705)	2004	121	80
<b>IGEM/UP/10 Ed 4 with amendments 2017</b>	Installation of flued gas appliances in industrial and commercial premises (1800)	2017	180	121
<b>IGEM/UP/10 Ed 4 Amendments</b>	Set of amendments 2016 (1786) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2017	Free	Free
<b>IGEM/UP/11 Ed 3</b>	Gas installations for educational establishments (1821)	2018	101	68
<b>IGEM/UP/12 Ed 2</b>	Application of burners and controls to gas fired process plant (1778)	2015	172	115
<b>IGEM/UP/12 Ed 2 Amendments</b>	Set of amendments 2009 (1778) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2009	Free	Free
<b>IGEM/UP/16</b>	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	121	80
<b>IGEM/UP/16 Amendments</b>	Set of amendments 2013 (1756) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2013	Free	Free
<b>IGEM/UP/17</b>	Shared chimney and flue systems for domestic gas appliances (1754)	2011	128	85
<b>IGEM/UP/18</b>	Gas installations for vehicle repair and body shops (1758)	2012	75	50
<b>IGEM/UP/19</b>	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777)	2015	105	70
<b>IGEM/UP/19 Amendments</b>	Set of Amendments 2015 (1777)	2015	Free	Free
<b>IGEM/UP/19 with Amendments Jan 2015</b>	Design and application of interlock devices and associated systems used with gas appliance installations in commercial catering establishments (1777)	2015	Online Access	Online Access
<b>IGEM/UP/20</b>	CNG Fuelling Stations (1775)	2014	126	84

### GAS LEGISLATION

<b>IGEM/GL/1 Ed 2</b>	Planning of gas distribution systems of MOP not exceeding 16 bar (1718)	2005	105	70
<b>IGEM/GL/2 Ed 3</b>	Planning of transmission and storage systems operating at pressures exceeding 16 bar (1816)	2018	75	50
<b>IGEM/GL/4 Ed 3</b>	Gas system assets - safety management system (1820)	2018	105	70
<b>IGEM/GL/5 Ed 3</b>	Procedures for managing new works, modifications and repairs (1783)	2015	91	61
<b>IGEM/GL/6 Ed 2</b>	Permitry for the safe flow of gas (1747)	2010	97	65
<b>IGEM/GL/8 Ed 3</b>	Reporting and investigation of gas related-incidents (1776)	2007	121	80
<b>IGEM/GL/9 Ed 2</b>	Guidance for large consumers in dealing with Natural Gas supply emergencies. (1806) <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2018	Free	Free

### GENERAL

<b>IGEM/G/0</b>	A Standard for Igem Standards (1782).	2015	Free	Free
<b>IGEM/G/1 Ed 2</b>	Defining the end of the Network, a meter installation and installation pipework (1765). <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2013	97	65
<b>IGEM/G/4 Edition 2</b>	Definitions for the gas industry (1763). <b>Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a></b>	2012	Free	Free
<b>IGEM/G/5 Ed 2</b>	Gas installations in multi-occupancy buildings (1762)	2012	168	112
<b>IGEM/G/6</b>	Gas supplies to mobile dwellings (1728)	2009	97	65
<b>IGEM/G/7</b>	Risk assessment techniques (1655)	2016	141	95
<b>IGEM/G/8</b>	Handling, transport and storage of PE pipe and fittings (1749)	2010	97	65
<b>IGEM/G/10</b>	Non-return valves (1785)	2016	73	49

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<b>IGEM/G/11</b>	Gas Industry Unsafe Situations Procedure	2018	Free	Free
<b>SAFETY</b>				
<b>IGEM/SR/4 Ed 3</b>	Variable volume gasholders storing lighter than air gases (1752)	2011	145	97
<b>IGEM/SR/14 Edition 2</b>	Fixed volume storage for lighter than air gases (1742)	2010	121	80
<b>IGEM/SR/15 Ed 5</b>	Integrity of safety-related systems in the gas industry (1746)	2010	131	88
<b>IGEM/SR/15 Ed 5 Amendments</b>	Set of Amendments 2015 (1746) Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a>	2015	Free	Free
<b>IGEM/SR/15 Ed 5 with Amendments Dec 2015</b>	Integrity of safety-related systems in the gas industry (1784)	2015	Online Access	Online Access
<b>IGEM/SR/16 Ed 2</b>	Odorant systems for gas transmission and distribution (1734)	2008	97	65

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<b>IGEM/SR/18 Ed 2</b>	Safe working practices to ensure the integrity of gas pipelines and associated installations (1678)	2002	75	50
<b>IGEM/SR/22 3<sup>rd</sup> Impression</b>	Purging operations for fuel gases in transmission, distribution and storage (1625)	1999	105	70
<b>IGEM/SR/23 2<sup>nd</sup> Impression</b>	Venting of Natural Gas (1623)	1995	105	70
<b>IGEM/SR/25 Ed 2</b>	Hazardous area classification of Natural Gas installations (1748)	2010	211	141
<b>IGEM/SR/25 Amendments</b>	Set of amendments 2013 (1748) Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a>	2013	Free	Free
<b>IGEM/SR/28 Ed 2</b>	Trenchless techniques (1753)	2011	145	97
<b>IGEM/SR/29</b>	Dealing with gas escapes (1760)	2012	97	65

### INDUSTRY GUIDANCE

<b>IGEM/UP/1101</b>	Guidance on gas installations for the management and staff within educational establishments (1745)	2010	23	15
<b>IGEM/G/101</b>	Onshore natural gas extraction and route to use (1766)	2013	Free	Free
<b>IGEM/IG/1</b>	Standards of training in gas work Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a> (1767)	2014	24	16
<b>IGEM/IG/1 Supp 1</b>	Non Domestic Training Specification (1788) Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a>	2016	24	16
<b>IGEM/IG/2</b>	Catering equipment engineers guide to relevant sections of IGE/UP/19 Download at <a href="http://www.igem.org.uk">www.igem.org.uk</a> (1772)	2014	23	15

### ONSITE GUIDES

<b>NICEIC</b>	Domestic gas safety onsite guide- part 1 and 2 V4	2015	48	48
<b>NICEIC</b>	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)

<b>StT/UP/1A</b>	Certificate of strength testing for IGE/UP/1A	2004	23	15
<b>TT/UP/1A</b>	Certificate of tightness testing for IGE/UP/1A	2004	23	15
<b>DP/UP/1A</b>	Certificate of direct purging for IGE/UP/1A	2004	23	15
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<b>TT/UP/1</b>	Certificate of tightness testing for IGE/UP/1	2004	23	15
<b>DP/UP/1</b>	Certificate of direct purging for IGE/UP/1	2004	23	15

Ed = Edition. Imp = Impression. Supp = Supplement.



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