

# AIGA PUBLICATION

(As on 31<sup>st</sup> Dec 2019)



[www.asiaiga.org](http://www.asiaiga.org)

The Asia Industrial Gases Association (AIGA) was established in year 2002 by the leading industrial gases producers operating in Asia (excluding Middle East, Japan, Australia, New Zealand and the South Pacific nations).

AIGA is a technical and safety oriented organization with the purpose of promoting safety, health, environmental awareness and security in the production, distribution and use of industrial gases.

AIGA is registered as a non-profit society based in Singapore. It aims to foster the exchange of technical information among its members in the safe handling and use of industrial, medical and carbon dioxide gases, and to have close liaison with national authorities, in order to work towards the highest level of safety and environmental care across Asian countries. AIGA actively participates in the harmonization of standards across the gas industry on a global level with other Regional Gases Associations in Europe, Japan and the United States (EIGA, JIMGA and CGA).

Id		Publication Name	Id		Publication Name
<b>AIGA OWN AND HARMONIZED</b>			091/14		Guidance for qualifying customers purchasing compressed gases
107/19		Alternatives to hydraulic testing of gas cylinders			
106/19		Vacuum-jacketed piping in liquid oxygen service	090/14		A reference guide for requalification of gas cylinders
105/19		Guidelines for cleaning externally contaminated medical gas containers	089/14		Reciprocating cryogenic pumps and pump installations (Harmonized Publication)
104/19		Safety principles for pressure regulators for medical oxygen cylinders	088/14		Labelling of medical gas containers
103/19		Guidelines for safe and hygienic handling of dry ice	087/14		Standard for hydrogen piping systems at user locations
102/19		Safety guidelines: prevention of wheel detachment	086/14		Safe startup and shutdown practices for steam reformers (Harmonized Publication)
101/19		A reference guide on cryogenic tanker product conversion	085/13		Liquid oxygen, nitrogen and argon cryogenic tanker loading systems (Harmonized Publication)
100/18		Hydrogen pressure swing absorber (PSA) mechanical integrity requirements (Harmonized Publication)	084/13		Methodology to establish a “Product Carbon Footprint”
099/17		Process safety management framework guidance document	083/13		Disposal of gases(Harmonized Publication)
098/17		A reference guide for industrial gas cylinder valve outlet connections	082/13		Combustion safety for steam reformer operation (Harmonized Publication)
097/17		Reference guide on medicinal gas cylinder valves	081/16		Safe practices for storage and handling of nitrous oxide (Harmonized Publication)
096/16		Code of practice hydrogen selenide H <sub>2</sub> SE (Harmonized Publication)	080/16		Safe practices for the production of nitrous oxide from ammonium nitrate (Harmonized Publication)
095/16		Mechanical integrity of syngas outlet systems (Harmonized Publication)	079/18		Safe design and operation of cryogenic enclosures (Harmonized Publication)
094/17		Design, manufacture, installation, operation, and maintenance of valves used in liquid oxygen and cold gaseous oxygen systems (Harmonized Publication)	078/12		International harmonization council work process
093/16		Guideline for the location of occupied buildings in industrial gas plants (Harmonized Publication)	077/11		Guidelines for handling externally contaminated medical cylinders in endemic situation
092/15		Prevention of tow-away incidents (Harmonized Publication)	076/13		Safe use of aluminum-structured packing for oxygen distillation(Harmonized Publication)

074/11	Safe handling of liquid carbon dioxide containers that have lost pressure(Harmonized Publication)	048/18	Reciprocating compressors for oxygen service(Harmonized Publication)
073/13	Tap water corrosion of composites with aa 6061 liners (Harmonized Publication)	047/16	The safe preparation of gas mixtures(Harmonized Publication)
072/11	Guidelines for transport by sea of multiple element gas containers(MEGCS) and portable tanks for transport of gases (Harmonized Publication)	046/08	Periodic inspection of static cryogenic vessels
071/13	Centrifugal compressors for oxygen service (Harmonized Publication)	045/07	Gaseous hydrogen stations
070/14	Leak detection fluids cylinder packages (Harmonized Publication)	044/07	Flexible connections in high pressure gas systems
069/10	Recommendations for safe filling of CO2 cylinders and bundles	043/07	Transport security guidelines
068/10	Carbon dioxide (Harmonized Publication)	042/16	Work injury product vehicle accident statistics
067/17	Safe location of oxygen and inert gas vents (Harmonized Publication)	041/06	Defensive driving
066/18	Selection of personal protective equipment (Harmonized Publication)	040/06	Good practices guide for loading and unloading of cryogenic liquid tankers
065/13	Avoidance of failure of co and of CO/CO2 mixtures cylinders (Harmonized Publication)	039/16	Road transport/product delivery emergency preparedness
063/16	Use of residual pressure valves	038/06	Vertical cylinder handling and transportation
062/09	Methods to avoid and detect internal gas cylinder corrosion(Harmonized Publication)	037/16	Permissible charge/filling conditions for acetylene cylinders, bundles, & battery vehicles
061/13	Safe use of gas cylinders in marine service	036/16	Guidelines for the management of waste acetylene cylinders
060/17	Safe installation and operation of PSA and membrane oxygen and nitrogen generators(Harmonized Publication)	035/13	Safe operation of reboilers/condensers in air separation units(Harmonized Publication)
059/17	Use of non-metallic materials in high pressure oxygen breathing gas applications(Harmonized Publication)	034/06	Carbon monoxide and syngas pipeline systems(Harmonized Publication)
058/13	Safe preparation of compressed oxidant-fuel gas mixtures in cylinders(Harmonized Publication)	033/14	Hydrogen pipeline systems(Harmonized Publication)
057/18	Safe use of brazed aluminum heat exchangers for producing pressurized oxygen(Harmonized Publication)	032/19	Perlite management(Harmonized Publication)
056/14	Safe practices guide for cryogenic air separation plants(Harmonized Publication)	031/13	Bulk liquid oxygen, nitrogen and argon storage systems at production sites(Harmonized Publication)
055/14	Installation guide for stationary electric-motor driven centrifugal liquid oxygen pumps(Harmonized Publication)	030/13	Storage of cryogenic air gases at users' premises
054/08	Prevention of excessive pressure during filling of cryogenic vessels(Harmonized Publication)	029/18	Code of practice nitrogen trifluoride(Harmonized Publication)
053/19	Code of practice compressed fluorine and mixtures with inert gases(Harmonized Publication)	028/06	Unmanned air gas plant: design & operation(Harmonized Publication)
052/16	Storage and handling of silane and silane mixtures(Harmonized Publication)	027/06	Cryogenic vaporization systems – prevention of brittle fracture of equipment and piping(Harmonized Publication)
051/08	Code of practice phosphine(Harmonized Publication)	026/13	Principles for the safe handling and distribution of highly toxic gases and mixtures
050/08	Code of practice arsine (Harmonized Publication)	025/13	Pressure containers with blocked or inoperable valves
049/17	Guideline to medical oxygen supply system for healthcare facilities	024/10	Connections for transportable and static bulk storage tanks

023/17	Good manufacturing practice guide for medicinal gases	010/17	Prevention of accidents due to overheated or burning tyres
022/13	Code of practice acetylene(Harmonized Publication)	008/17	In-Cab Camera and How Does It Help to Improve Road Safety
021/12	Oxygen pipeline and piping systems	007/11	Safety at Customer Sites
019/17	Connections for portable liquid cylinders	006/10	Safe Handling of Compressed Gases in the Laboratory and Plant
018/15	Safe handling of electronic specialty gases(Harmonized Publication)	005/10	Recent cases of asphyxiation in confined spaces in Asia
017/05	Labelling of gas containers (including associated equipment)	004/16	Potential hazards of quick release cylinder valves used with firefighting gases
016/04	Safety features of portable cryogenic liquid containers for industrial and medical gases	003/06	Safe operation of Fork Lift Trucks
015/15	Safe management of contractors	002/09	Influenza pandemic preparedness
014/05	Safety audit guidelines	001/05	Safe use of acetylene
013/05	Incident/accident investigation and analysis	<b>Safety Poster</b>	
012/04	Cleaning of equipment for oxygen service	007/19	Process safety
011/04	Work permit systems	006/19	Safe Handling of Cylinders
010/19	Management of change	005/17	Asphyxiation
009/10	Safety training of employees	004/17	Driver distraction due to mobile phone use, series 2.0
008/18	Hazards of oxygen deficient atmospheres	003/17	Driver distraction due to mobile phone use
007/04	Job motivation and safe operations in cylinder filling stations	002/15	Driver Fatigue, series 2.0
006/15	Good environmental management practices for the industrial gas industry	001/15	Driver fatigue
005/18	Fire hazards of oxygen and oxygen-enriched atmospheres	<b>Position Paper</b>	
004/13	Handling gas container emergencies	005/18	Long-term durability of steel gas cylinder
003/18	Site security guidelines	004/11	Trans filling of Medical Gas Cylinders
<b>Safety Bulletin</b>		003/10	Tapered and parallel (straight) threads in aluminum alloy cylinders
020/19	A Guide on Minimum Safety Requirements for Customers' Self Pick Up Vehicles	002/18	Memorandum of Understanding Gas cylinder ownership and responsibility in Asian countries
019/19	Guidline on Monitoring and Management High Risk Drivers	001/06	Good Manufacturing Practice Guide for Medicinal Gases
018/19	Armed and Unarmed Guards at Facilities	<b>Training Package</b>	
017/19	Travel security	024/19	Recent (2018) Accidents / Incidents in the Gases Industry in Asia
016/19	Receiving cylinders after natural disaster exposure	023/18	Recent (2017) Accidents / Incidents in the Gases Industry in Asia
015/19	Handling cylinders after natural disaster exposure	022/17	Recent (2016) Accidents / Incidents in the Gases Industry in Asia
014/19	Liquid nitrogen in molecular cooking	021/16	Safe Filling of Open Top Dewar's and Flasks from Cryogenic
013/18	Carbon dioxide physiological hazards "Not just an Asphyxiant!"	020/16	Safe visits to Customer Site for occasional visitors from Industrial Gas Companies
012/18	Transportation safety - challenges & improvement strategy	019/16	Recent (2015) Incidents in the Gases Industry in Asia
011/18	Human behavior within transport operations	018/15	Vehicle rollover prevention

016/15	Driver fatigue management	008/11	Recent Incidents in the Gases Industry in Asia
015/15	Pre-fill Inspection of Gas Cylinders	007/11	Near misses specialty gases
014/15	Recent ( Recent (2014) Incidents in the Gases Industry in the Gases Industry in Asia	006/06	Work permit system
013/13	Recent Incidents in the Gases Industry in Asia	005/05	Prevention of Over – Pressurization
012/12	Recent Incidents in the Gases Industry in the Gases Industry in Asia	004/05	Slips, Trips and Falls
011/12	Safe use and handling of Safe use and handling of portable liquid cylinders (PLCS)	003/05	Safe Storage, Handling & Use of Compressed Gases
010/12	Safe Driving in Bad Weather Conditions	002/05	Fire Hazards of Oxygen and Oxygen enriched atmospheres
009/12	Recent Incidents in the Gases Industry in Asia	001/04	Oxygen deficiency

\*Description of color coding



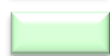
AIGA Own and Harmonized



Safety Poster



Training Package



Safety Bulletin



Position Paper

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