

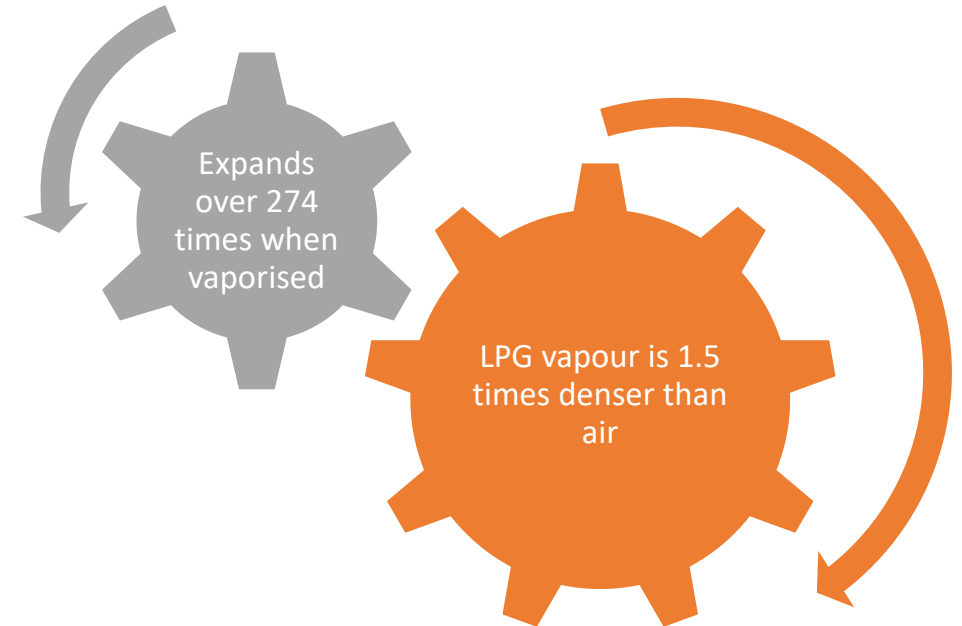
## LPG in the workplace: Storage and Use (Single Supply)



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Senior Inspector

# What is Liquefied Petroleum Gas (LPG)?

- LPG is a by-product of natural gas extraction and the crude oil refining process.
- LPG is a flammable mixture of hydrocarbon gases mainly butane and propane.
- LPG can be supplied in canisters, cylinders and in bulk storage tanks.



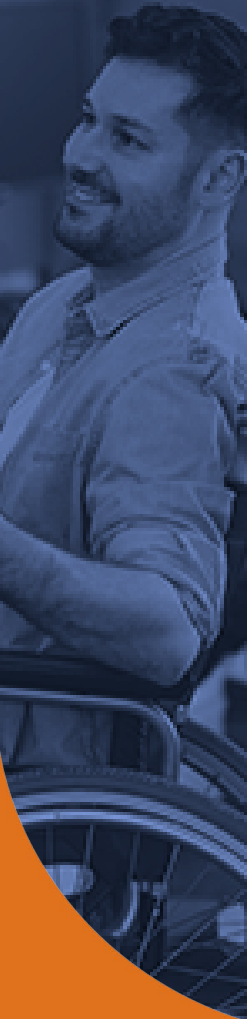
# LPG Properties

HSA


An tÚdarás Sláinte agus Sábháilteachta  
Health and Safety Authority



# Non-domestic/Commercial uses



# LPG Regulations and Standards



Number 10 of 2005

**SAFETY, HEALTH AND WELFARE AT WORK ACT 2005**

S.I. No. 201 of 1990.


DANGEROUS SUBSTANCES (STORAGE OF LIQUEFIED PETROLEUM GAS) REGULATIONS, 1990.



Irish Standard  
I.S. 3216:2025

Version 3.00

Code of Practice - Bulk storage of liquefied petroleum gas (LPG)



Irish Standard  
I.S. 3213:2020

Code of Practice for the storage of LPG cylinders and cartridges



Irish Standard  
I.S. 820:2019

Non-domestic gas installations (Edition 3)

# Non-compliant LPG Tanks



# Secure LPG compound



# Non-compliant cylinder installations



# Cylinder installations



Store cylinders upright, secured, outdoors in well-ventilated areas away from ignition sources and combustibles.



Propane cylinders must never be stored indoors.



Maintain separation distance per I.S. 820; consult a competent person for distances from doors, windows, drains, etc.



Use a lockable, non-combustible cage if the area is not secure or access is not controlled.



Inspect cylinder pigtails, and fittings regularly. Replace pigtails every 5 years or sooner if damaged.

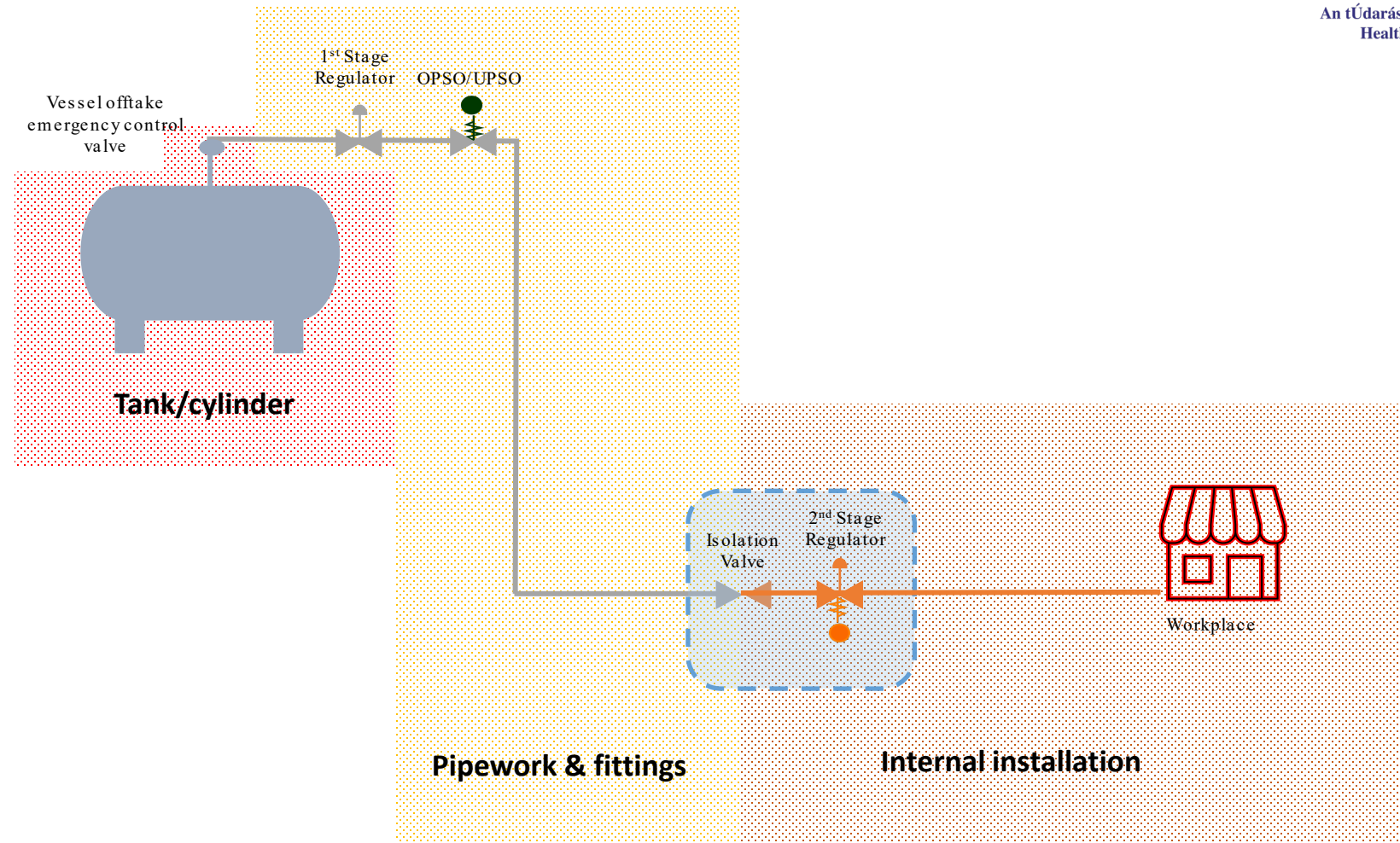


Install over-pressure protection



Only keep a minimum number of cylinders onsite; return used cylinders promptly.

# LPG installation – single supply



# LPG installations degrade over time

## Regulators

- Check the manufacturers date.
- Replace regulators every 10 years or sooner if required.

## Pipework

- Replace buried steel pipework with PE.
- Install an over pressure shut off (OPSO) and an under-pressure shut off (UPSO).

## Appliances

- Must be CE-marked, configured for LPG, and supported by control measures such as CO alarms and accessible emergency shut-off valves.

## Competent person

- Always use a competent person to undertake gas works in accordance with the relevant standard.



# Key Takeaways



Ensure you are clear on the demarcation between your duties and those of the gas supplier. This varies depending on whether you are using a cylinder or bulk tank installation.



Your LPG installation must be inspected, tested and certified annually by a competent person.



Ensure an LPG emergency plan is in place and documented.



Employees must be trained on the actions required during an LPG related emergency.



If you smell gas – always call the emergency gas supplier number. Do not assume someone else will.



Visit our website for further LPG information



# HSA

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Go raibh maith agaibh  
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