

LPG Cylinder Adaptors

A recent incident in Western Australia has highlighted the risk associated with the use of LPG cylinder adaptors.

What is an LP gas cylinder adaptor?

An adaptor is a fitting that is used on LPG cylinders to convert the previous Type 21 (Prest-O-Lite - POL) valve outlet to the new LCC27 connection. This adaptor enables the older POL cylinders to be used with the new LCC27 appliance connectors supplied with newer model gas appliances such as a barbeques and gas heaters. Old appliances with a POL connection hose can be used with a gas cylinder with the newer LCC27 valve.



Examples of adaptors

What is the hazard?

The Australian Standard *AS/NZS 1596: The storage and handling of LP Gas* prohibits the use of these adaptors as they override the safety features of the new LCC27 valves.

The new LCC27 valve provides a positive isolation of gas supply which prevents gas flow unless a gastight seal or connection is formed between the valve and appliance hose connector. The use of these adaptors undermines this safety feature which can lead to the ignition of escaping gas.

How does this hazard occur?

The threads of LCC27 to POL adaptors are opposite, meaning a POL thread is left-hand and an LCC27 is right-hand. Tightening an LCC27 connection onto an adaptor may loosen the POL connection at the cylinder valve due to the opposing threads. This can lead to dangerous gas leaks.

What do I need to do?

Never use an adaptor. If you have a newer appliance such as a gas barbeque or gas heater with the more recent LCC27 connector, only use a gas cylinder with the new LCC27 cylinder valve. If your gas cylinder has the older POL valve, exchange it at your local gas exchange supplier.

Extra diligence is required when purchasing or exchanging cylinders to ensure you obtain the correct and compatible connections between your appliance and the cylinder are of the same type.

If the gas hose, regulator, or POL connection of an older appliance looks fatigue or damaged contact a local authorised service agent or gas fitter to upgrade to a gas hose assembly with an LCC27 connection.

Always check for gas tight connections with soapy water every time you open the gas cylinder valve.



New cylinder valve showing both LCC27 and POL connections.

Additional information.

- <https://www.cbos.tas.gov.au/newsroom/news-items/gas-connection-changes>
- <https://www.youtube.com/watch?v=bPIPDISJMj4>

Document Development History

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