

ABOUT YOUR MACGAS REGULATOR

Modern Butane regulators use an easy-fit 'Clip-on' system, with a control switch for turning the gas on and off.

All standard fitting **20mm** Butane regulators will fit Macgas 7kg and 13kg Butane cylinders.

Different brands and types of Butane regulator have been supplied previously by LPG equipment suppliers. It is not possible to illustrate all of these here. Please consult the original manufacturer's instructions.

If you cannot find the instructions, ask your regular Macgas supplier for advice. If they are unable to advise you about your old regulator, for peace of mind you can if you prefer, purchase a new regulator at low cost.

Some companies use different sizes of Butane regulators and valves, often **21mm**. Never attempt to force these onto your Macgas valve - if the regulator doesn't fit your valve readily, contact your Macgas Dealer.

Gas Pressures: Many Butane appliances come pre-fitted with gas pressure regulators. Most appliances operate on precisely pre-set gas pressure regulators which you should not attempt to adjust. Your Macgas Butane regulator complies with BS 3016. It is pre-set, and you should not attempt to adjust it. For more information always read the manufacturer's instructions.

See overleaf for detailed instructions on connection.



SENSIBLE, SAFE AND LEGAL DISPOSAL

If you no longer need your Macgas cylinder tell your Macgas Dealer or phone the number on the cylinder Safety Label. You may be due a partial refund - ask your Macgas Dealer and remember to tell them if you still have your Macgas Hire Form. **Never** discard Macgas cylinders - you could be prosecuted on Waste Disposal and Health & Safety grounds. **Refuse** to give up your Macgas cylinder to any other gas supplier or scrapman.



Many customers also wish to change to Macgas for all the benefits of a safe and economical Macgas supply. Macgas Dealers cannot normally take away other brands of cylinders, but will advise you how to return these.



YOUR LOCAL MACGAS DEALER:



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TRADE USERS: If you use LPG in your business you will require written information for your records - i.e. Material Safety Data Sheets. If you also transport LPG you will probably require Tremcards, and possibly Driver Training. Landlords have specific duties. Contact Macgas for information and advice.

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Certificate No FM 12798



Your Guide for Safe & Sensible Use of Macgas Butane



Macgas Butane is supplied in **BLUE** cylinders. There are two sizes - 7kg and 13kg. The cylinder valves are exactly the same for both sizes.

See overleaf for instructions on correct use of your Macgas Butane cylinder.



Inside your Macgas cylinder, Butane is stored as a liquid under moderate pressure and vaporises to gas as you use your Macgas appliance.

The liquid simply vaporises to replace the gas used.

HOW BUTANE GAS WORKS:

Butane is a gas at normal temperatures, but by keeping it under pressure, we can store it as a liquid - LPG (Liquefied Petroleum Gas). In this way we can store very large amounts of fuel gas in a small space. By opening the cylinder valve we can release some of this pressure to fuel gas appliances, and more of the liquid simply vaporises to replace the gas we have used. Eventually all the liquid gas is used up and you need a refill from your Macgas Dealer.

In extremely cold conditions Butane liquid may be slow to vaporise. Try moving the cylinder to a warmer room. Once the cylinder warms up, the pressure will increase. Never apply a naked flame to heat up the cylinder.

ADVICE & ASSISTANCE:

If you are unsure how to operate your cylinder, regulator or equipment, or if you have any questions about your Macgas supply consult your regular Macgas supplier who will advise or assist you, and if necessary obtain specialist guidance for you.



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Macgas is Quality Assured to ISO 9002. Macgas is a Member of the Liquefied Petroleum Gas Association and operates to the Association's strict Codes of Practice.

For your own safety and comfort do not settle for less.

How to use Butane safely!



Position: Macgas Butane is stored as a liquid, so cylinders must **always** be transported, stored and used in the **upright** position. Never tilt cylinders when in use - liquid gas could enter the appliance.



LPG Cylinders: Always treat gas cylinders with respect - punctured cylinders or damaged valves can allow gas to escape and cause a fire. Even when 'empty,' LPG cylinders contain flammable gas and should be treated as if they are full. Do not store unneeded cylinders - ask your Macgas Dealer for advice & assistance.



LPG Hoses: All flexible LPG hoses should be marked to British Standards and secured to end fittings with proper hose clips. Low Pressure hose (for up to 50 mbar) must be marked BS3212/1. High Pressure hose (for up to 17.5 bar) must be marked BS3212/2, and should display year of manufacture. Inspect hose regularly, replace if worn or damaged. Keep hose as short as practical, and protect from damage and excessive heat.



Gas Leaks: LPG has a strong distinctive odour so you can easily detect even small leaks. If you think you smell gas switch off at the regulator and open windows and doors. Make sure there are no other sources of ignition around. If you cannot pinpoint the leak readily, brush some washing up liquid over the pipes, connections, hose etc. and watch for bubbles. Remove cylinder to open air if possible. **Never check for a gas leak with a naked flame.**

IGNITING: Many appliances have built-in ignition devices, but always ensure you are ready to light gas promptly. If gas does not light promptly, switch off and wait till any gas build-up clears before trying again.

SERVICING: Servicing and repairs should not be attempted by unqualified persons. LPG equipment should be inspected and serviced regularly by a CORGI registered contractor. It is recommended that you arrange this annually - and for heaters in particular, before each winter season.

Location: LPG is heavier than air and leaking gas will gather in low lying areas such as basements. Never take LPG into high buildings where a piped gas supply is prohibited.

Instructions: Always keep the manufacturer's instructions handy for yourself and for other users. When using LPG appliances or equipment for the first time, read the instructions and follow them carefully.

Ventilation: Always follow manufacturer's instructions. Ensure there is always sufficient ventilation to replace the air consumed by unflued appliances or this could reduce the amount of Oxygen in the room and produce Carbon Monoxide, with risk of asphyxiation. Ensure ventilation grilles are open and clear. Open windows and doors if the room feels stuffy. Many unflued appliances incorporate devices to shut gas off automatically if there is not enough Oxygen, but you should not rely solely on this. Never leave unflued appliances lit and unattended, or whilst occupants are asleep.

Fire Hazards: Never move mobile heaters when lit. Never drape clothes etc. over gas appliances. Always face heaters into the middle of the area, well away from curtains, laundry, furniture, walls etc. If a fire occurs, stay away from any cylinders near the fire. Raise the alarm at once and call the Fire Brigade. Upon their arrival, tell them the location of all gas cylinders.



Keep children away from LPG cylinders.

Use a fireguard if required.

Do not allow young children to change cylinders or operate appliances.

Connecting and disconnecting



Butane Cylinder Valve Safety Cap:

To remove cap, grasp cord, draw it outwards to release clip, then tug firmly upwards to lift cap off valve. Once removed, let cap hang aside - do not untie or cut off - it will be needed later. Do not use tools.

After removing Safety Cap, check the black rubber sealing washer is in place inside valve on cylinder.

If not, **do not use** cylinder - call your Macgas supplier at once.

To replace cap, press it back onto the valve, clicking down firmly into place. The valve is automatically self-sealing. For additional safety always fit the Safety Cap when cylinder is disconnected, even when empty.

To connect cylinder: Remove cylinder valve Safety Cap. Set regulator gas switch to 'OFF' position (horizontal - see illustration).

Place regulator over cylinder valve and press down firmly onto valve till a definite click is heard.

The regulator is 'fail-safe' - so if it is not clicked down fully into place the gas switch cannot turn the gas on.

n.b. If gas leaks when regulator is connected - only if safe to do so - remove regulator, refit the Safety Cap, move cylinder out of doors and call your Macgas Dealer. Call Fire Brigade if serious gas escape persists.

To disconnect and change cylinder:

To disconnect cylinder, turn the regulator switch to 'OFF'. Press the 'Disconnect' button at base of regulator to release regulator from valve, lift regulator off valve. Refit the Safety Cap onto cylinder valve immediately. To connect new cylinder repeat the connection procedure described above.

n.b. Never go directly from 'ON' to the 'DISCONNECT' position - always wait till flame is completely out. If gas escapes when regulator is removed, replace it immediately to stop leak, then call your Macgas Dealer. Never disconnect regulator if flame stays lit. Never disconnect in vicinity of any source of ignition such as fires, boilers, pilot lights, flues, electric switches, cigarettes, etc. If possible change cylinders out of doors, where there is plenty ventilation. Always keep cylinders upright.



To turn gas ON and OFF:

ON: With regulator clicked firmly onto valve, switch gas 'ON' by turning gas switch **ANTICLOCKWISE** till pointing vertically upwards. The cylinder valve is now open and your gas supply is ON and ready for use.

The regulator has a safety lock. When the switch is in the 'ON' position, the regulator cannot be disconnected from the cylinder. Never try to force the switch if it will not move easily when connecting or disconnecting.

Once connected, the regulator can swivel sideways on the valve to facilitate positioning of the cylinder. This is normal, and the regulator is still securely connected to the valve. Proceed to light your appliance.

OFF: To turn the gas OFF simply return the switch to its horizontal 'OFF' position. The cylinder valve will close, and the flow of gas will stop. As an extra 'fail-safe' there is also a shut-off valve built into the regulator.

n.b. (i) Always switch off using the regulator ON/OFF switch. Then if appliance is fitted with a gas tap, turn this off also. Many appliances shut down automatically once flame goes out and must be manually restarted, but some (e.g. most cooker hobs) can let gas escape if they are still at 'ON' when a new cylinder is fitted.

n.b. (ii) Once the regulator is connected to the valve do not disconnect it until your next cylinder change. Instead you should simply use the On/Off switch on regulator whenever you want to turn the appliance off. Important - do not disconnect regulator when simply switching gas off.



LPG is a safe and reliable form of energy provided these commonsense safety rules are observed.