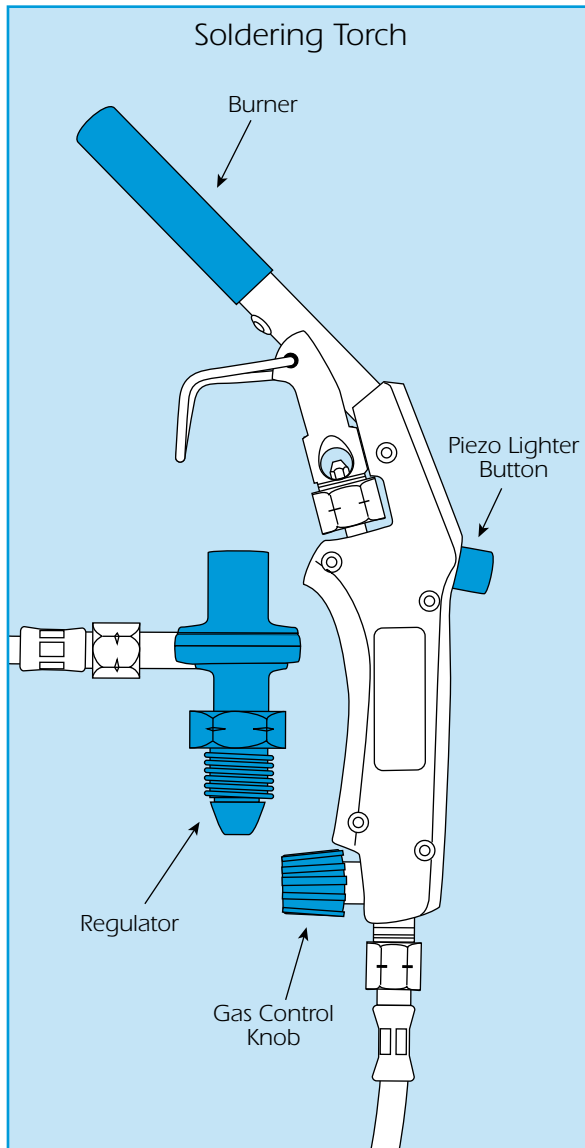


Blow Lamp and Soldering Torch

Propane fired Blow Lamp/Torch for felt work, plumbing, soldering or brazing.



any burr. Clean the surface of the pipe with wire wool, this will allow the solder to bond to the pipe correctly.

Now smear the pipe ends with an active flux paste, then push the pipes into the fitting.

Two types of solder fittings are available either standard or pre-soldered, if using pre-soldered, heat the fitting and pipe ends evenly until the solder runs around the entire circumference.

If using standard fittings, heat the fitting and pipe ends evenly until the flux runs, then run the solder around the joint edge on both ends until solder runs around the entire circumference.

NOTE: Copper pipe with water present, cannot be soldered, as the water stops the copper from reaching a high enough temperature to melt the solder. In this situation either remove all the water or use a compression fitting.

EQUIPMENT CARE

Never use a Blow Lamp or Soldering Torch except for their intended purpose, If they will not do what you want, assume you have the wrong equipment for the job. Contact your local HSS Hire Shop for advice.

Keep the equipment clean. You will find less of a chore if you clean it regularly, rather than wait until the end of the hire period.

Handle gas bottles with care. Any protective plugs supplied must be fitted to the valve when not in use.

When not in use, store the equipment somewhere clean, dry and safe from thieves.

Remember, propane regulators have a reverse thread- turn them anti-clockwise to tighten, clockwise to undo. To avoid damaging the thread, always fit the regulator with its protective cap.

FINISHING OFF

Turn off the gas supply at the cylinder's valve and wait for the burner to go out. You can now disconnect the gas regulator and turn off the gas control knob.

Leave the equipment to cool, before removing or returning it.



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Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

Keep children, animals and bystanders away from the work area.

Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

This equipment should only be used by a competent person who has read and understood these instructions.

Ensure the area is adequately ventilated to prevent the build-up of toxic fumes.

Gas Safety

Propane gas is highly flammable. It is also heavier than air, increasing the risk of explosion in the event of a leak. So... ALWAYS double-check all gas supply connections for leaks (smear them with washing-up liquid and look for bubbles). ALWAYS handle gas bottles, hoses and connectors with care. ALWAYS store bottles in a cool, safe place: away from heat and ignition sources and away from drains and other places where leaked gas could collect.

NEVER smoke or allow naked lights into the area while changing gas bottles.

NEVER test for leaks with a naked light!



Safety Goggles MUST be worn by everyone in the work area.



Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could interfere with the work or fall in the path of the flame.



Gas cylinders are heavy, never attempt to lift a cylinder, full or empty, by your self. Always get help.

Never use this equipment if highly flammable vapours - petrol or paint thinner fumes for example - are present, nor in a dusty environment.

Keep combustible materials at a safe distance- at least 1.5.m (5ft).

Keep gas cylinders upright at ALL times, during use, transporting and when stored. Don't drop or knock them as damaged cylinders can be dangerous.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

Gas Leaks

IF YOU SUSPECT A GAS LEAK...

Tell everyone in the vicinity to turn off or put out anything that could ignite the gas, unless this involves operating electrical switches (most generate a tiny spark).

Open doors and windows, then take all gas bottles outside check that their valves are closed.

Test each valve for leakage before replacing its plastic cap and contacting you local HSS Hire Shop.

IF A LOT OF GAS HAS ESCAPED...
Evacuate area and call the Fire Brigade.

Information on COSHH regulations is available from your local HSS Hire Shop.

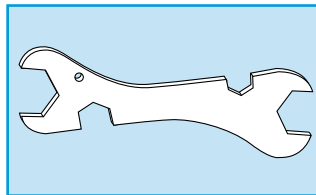
FROST WARNING

Liquid gas can cause severe 'freeze burns' so avoid skin contact by wearing gloves when making connections.

This cooling effect may also result in the formation of frost around cylinder connections. Having satisfied yourself that this is not due to a leak, you can ignore it or wipe it off with a cloth.

Never apply heat to the cylinder or equipment.

GETTING STARTED



Set the cylinder up on firm level ground and screw the gas regulator onto the propane cylinder's valve, turning it anti-clockwise to tighten (it has a reverse thread)

and tighten up with the spanner provided.

Fully close the gas control knob then check valves and all hose connections for leaks and tighten up as necessary.

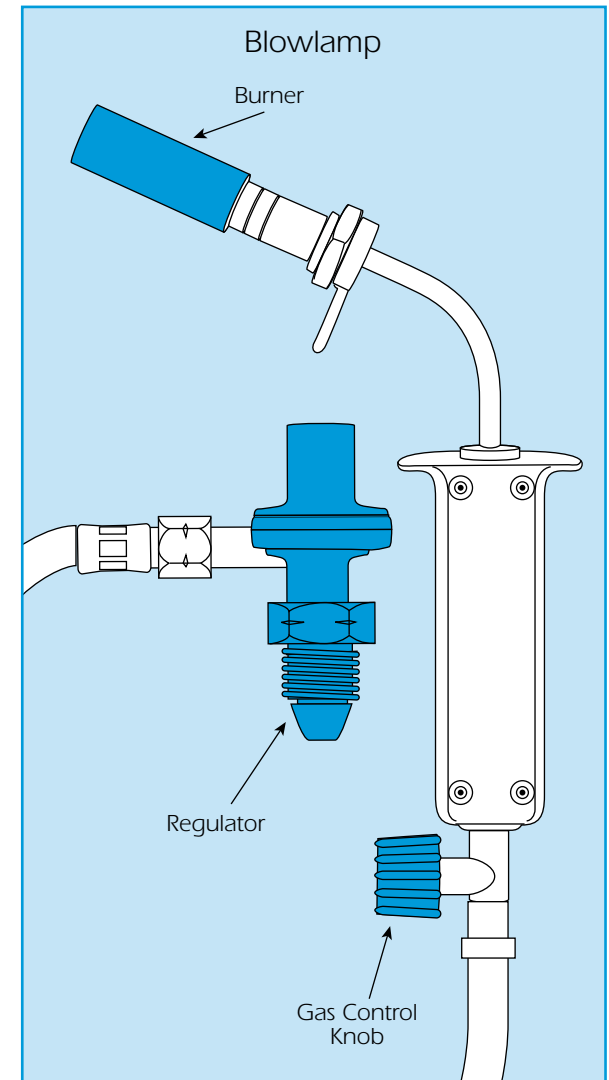
Open the valve on the gas cylinder.

If using a Blow Lamp...

Open the gas control knob then apply a lighted splint to the burner.

If using a Soldering Torch.

Open the gas control knob and repeatedly press the piezo lighter button until the burner lights.



If the burner fails to light, turn off the gas and wait a few moments to let the gas clear before trying again.

BASIC TECHNIQUES

Hold the Gun/Torch firmly by the handle and always work away from the cylinder ensuring the hose is kept safe from the flame.

Be aware of surfaces beyond the work, use a fire proof mat to protect timber joists etc.

If you are soldering copper pipe fittings...

Cut the pipe to the required length, then clean off