

# ~ FABRICATION ~



METALWORK

OPERATING INSTRUCTIONS



METALWORK

INTRODUCING

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## PROPANE GAS TORCHES



### Propane Gas Torches

Access Level 2 (see Metal Workshop induction Guide on Access Levels)

Hand held torches for casting or RAKU firing (see separate sheet)

#### PPE Basic

- Suitable workcoat (provided)
- Face Shield, rated to BS/EN 166 (provided)
- Heat-resistant Gloves, rated to BS/EN 388 (mechanical) and 407 (thermal)
- Stout footwear

#### What to do before use

- Inform a member of staff that you are going to use this piece of equipment.
- Visual check of the equipment for signs of damage to the system, report any faults to any member of workshop technical staff
- Ensure that there are no combustible, flammable or compressed materials in the area

#### How to Use These Gas Torches

- Refer to any OPERATING INSTRUCTIONS given during training or timetabled workshops
- ENSURE you are wearing the correct PPE; Workcoat, Faceshield, and gloves
- ENSURE extraction is ON or you are working in a well-ventilated area i.e. OUTDOORS
- Unwind hose FULLY from bottle; be careful as this is now a potential TRIP HAZARD
- Keep gas bottle as FAR FROM the work area as possible

### Using the LARGE Hand Torch

- Be **CAREFUL** with the thermocouple on the hand torch body as this is delicate
- **CHECK** the valve on the top of the bottle is set to **CLOSE**
- **CHECK** the valve on the hand torch with the yellow handle is **OFF**
- Turn the valve on the bottle 360° to **OPEN** fully
- **DO NOT** point the torch towards any naked flame or high heat
- Press the **RED** button on the hand torch and listen for noise of gas releasing
- **CAREFULLY** adjust the gas flow using the regulator on the bottle. A **SLOW** trickle is sufficient
- Using the **SPARK IGNITOR**, light the hand torch, with the bell chamber of the torch pointing **DOWN**
- Keep the **RED** button depressed for 5-10 seconds until a **STABLE** flame is achieved
- Always Turn **OFF** the valve on the hand torch when **NOT** in use
- Turn the valve on the bottle to **CLOSE** position
- Leave the hand torch to cool and leave a sign nearby indicating to others working nearby that the equipment is **HOT**
- **DO NOT** rest it on the bottle

### Changing the hand torch - **MUST BE DONE UNDER STAFF SUPERVISION**

- Use brass spanner provided to remove the regulator control. It is reverse threaded so you need to turn the opposite way to normal
- Attach other hand torch - **DO NOT** over tighten

### Using the SMALL Hand Torch

- Check the valve on the bottle is set to **CLOSE**
- Check the **RED** dial on the hand torch is **OFF**
- Turn the valve on the bottle 360° to **OPEN**
- **DO NOT** point the torch towards any naked flame or high heat
- Press the **RED** button on the hand torch and listen for noise of gas releasing
- **CAREFULLY** adjust the gas flow using the regulator on the bottle. A **SLOW** trickle is sufficient
- Using the **SPARK IGNITOR**, light the hand torch, with the bell chamber of the torch pointing **DOWN**
- Keep the **RED** button depressed for 5-10 seconds until a **STABLE** flame is achieved
- Always Turn **OFF** the valve on the hand torch when **NOT** in use
- Turn the valve on the bottle to **CLOSE** position

- **Leave the hand torch to cool and leave a sign nearby indicating to others working nearby that the equipment is HOT**
- **DO NOT rest it on the bottle**

**Date**

**I verify that I have read and understood the information detailed within this document**

**Name**

**Signature**