

# Know Your Welding & Cutting Equipment

## Regulator



- ✓ Standard ISO 2503
- ✓ Labelled with manufacturer's name
- ✓ Within the recommended service life or under 5 years old
- ✓ Pressure adjustment screw winds fully in & out, staying fixed to body
- ✓ Bull nose & outlet is free from oils, greases & PTFE tape



## Regulator



- ✗ Incorrect for gas type in use
- ✗ Unauthorised modifications
- ✗ Exceeds the maximum outlet pressure
- ✗ Shows damage to:
  - Gauges
  - Pressure adjustment screw
  - Bull nose
  - Regulator outlet

## Flashback Arrestors



- ✓ Standard BS EN 730
- ✓ Labelled with manufacturer's name
- ✓ Within the recommended service life or under 5 years old



## Flashback Arrestors

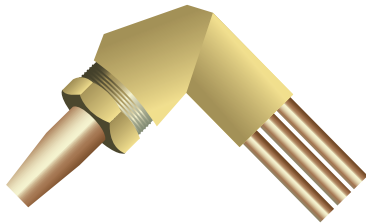


- ✗ Damaged
- ✗ Unauthorised modifications
- ✗ Unsuitable for gas types/pressure
- ✗ Out of service life

## Torch



- ✓ Undamaged
- ✓ Valves operate freely



## Torch

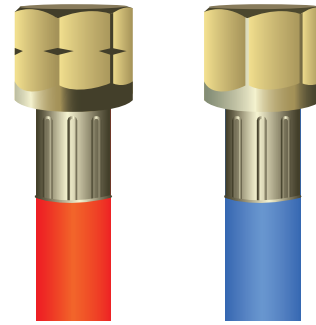


- ✗ Evidence of flashback damage
- ✗ Valves leaking
- ✗ Pipework bent or discoloured
- ✗ Incorrect, worn or damaged nozzle

## Hoses



- ✓ Marked BS EN559 or ISO 3821
- ✓ Correct hose clips or ferrules
- ✓ Uncoiled from cylinders when in use
- ✓ Correct hose for the gas
- ✓ Clean & uncontaminated from oils & greases
- ✓ Correct size length for the task



## Cylinder



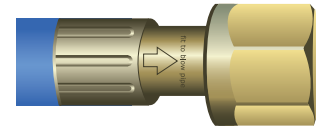
- ✓ Cylinder label is present & legible
- ✓ Upright & secured by chain or strap
- ✓ Cylinder is in test date
- ✓ Valve outlet is free from PTFE tape, oils & greases



## Non return valve/hose



- ✓ One per hose
- ✓ Undamaged



## Practices & procedures



- ✓ Safety Data Sheets are available
- ✓ Pre light-up & shut down procedures are available & adhered to



Nationally Accredited safety training for users of compressed & cryogenic gases

## Hoses



- ✗ Hose incorrectly secured to fitting
- ✗ PTFE tape used on connections
- ✗ Damaged - bulges visible; cuts, burns or abrasions expose the inner liner
- ✗ Incorrect standard for welding or cutting

## Cylinder



- ✗ No label attached
- ✗ Unsecured
- ✗ Out of test date
- ✗ PTFE tape, oils & greases on valve outlet

## Non return valve/hose



- ✗ One or both missing
- ✗ Damaged or leaking

## Practices & procedures



- ✗ Unit left under pressure when not in use:
  - Cylinder valve open
  - Torch valves open
  - Regulator not wound down

Warning signs indicate hazardous practices!