



GAS MIXING CASTING TORCH FOR DENTAL AND JEWELLERY FIELDS – ISO 5172 REGULATION INSTRUCTION AND MAINTENANCE MANUAL



USE AND OPERATION

Gas mixing torches are free flame devices expressly developed to carry out heating, casting and welding operations of alloys commonly used in Dental and Jewellery field.

In order to avoid any risks, the torch has to be connected properly to the gas feeding bottles (oxygen and propane) fitted with approved pressure regulator, pressure gauge and safety valves; connection has to be carried out by means of type-tested pipelines according to the type of gas being used and duly fixed in place with suitable hose clamps.

The torches are manufactured complying with the standard requirements provided for the different gas which can be utilized and connections are identified by indelible labels.

Recommended working pressure reads as follows:

Operation	Oxygen	Gas
WELDING	1,5 bar	0,5 bar
CASTING	3/4 bar	0,5 bar

The torches are manufactured utilizing materials which assure better performance and long-life, maintenance-free usage. In any case, should the product need to be repaired, the intervention has to be executed by skilled technicians, only.

INSTRUCTIONS FOR USE

ATTENTION! Before carrying out any heating procedure with the casting torch, wear the suitable protection goggles.

INSTALLATION

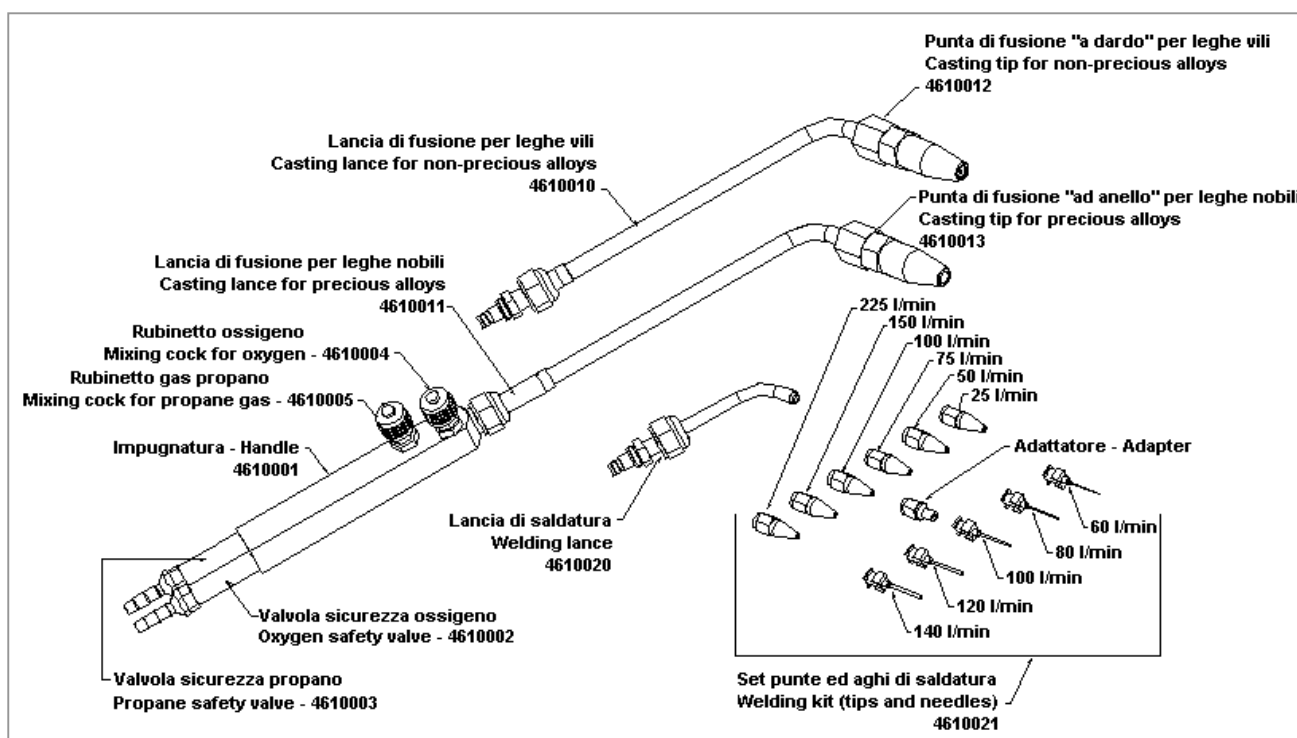
- Introduce the light blue type-tested pipe on the pipe connection of the safety valve marked with **OX** and the red type-tested pipe on the pipe connection of the safety valve marked with **GAS** and tighten with suitable hose clamp.
- Assemble on the end of the handle the lance most suited to the procedure to be executed and tighten thoroughly. To cast precious alloys, use the ring-shape lance (6), to cast non-precious alloys, assemble the beam-shape lance when welding, utilize the short lance (8) fitted with the tip or the needles most suitable to the type of heating you want to obtain.

SWITCHING ON AND REGULATION

1. Open the bottle cocks and set the working pressure
2. Bring the torch tip near the flame and open the gas cock
3. Open the oxygen cock until the desired flame level is attained.

IMPORTANT WARNING

In case of any flame flash-back, turn off immediately the torch and close **first the oxygen cock and then the fuel gas cock**; afterwards, a complete check to the equipment must be carried out by skilled personnel.



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