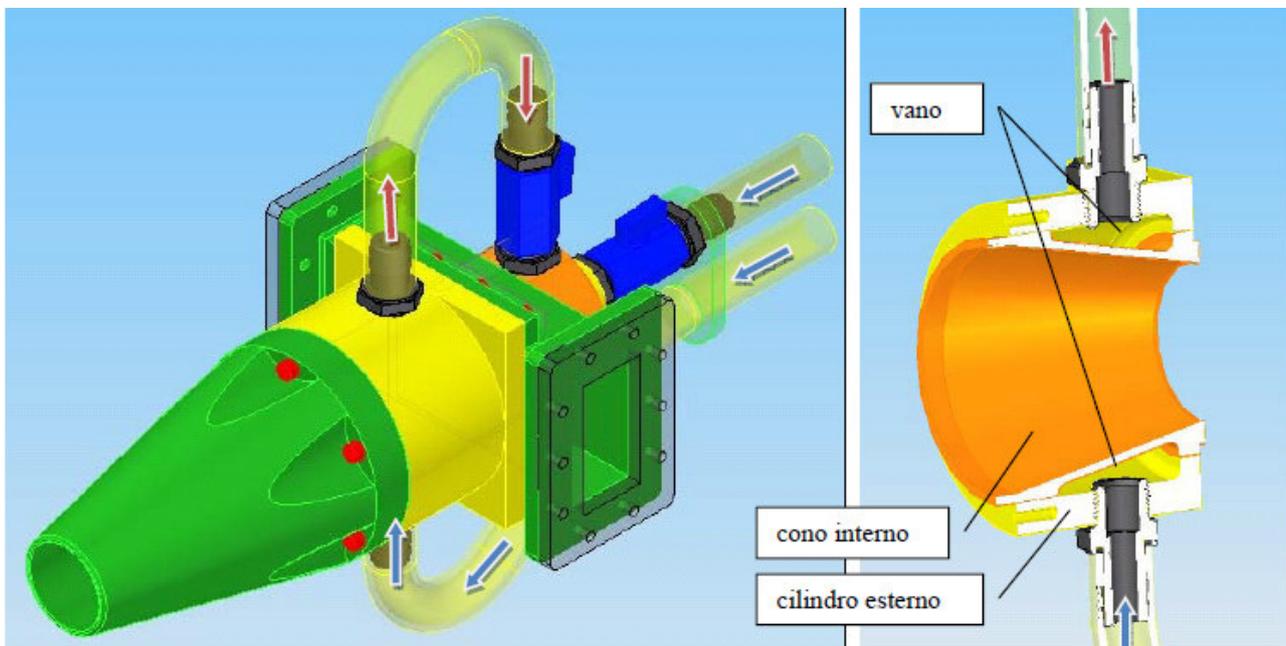
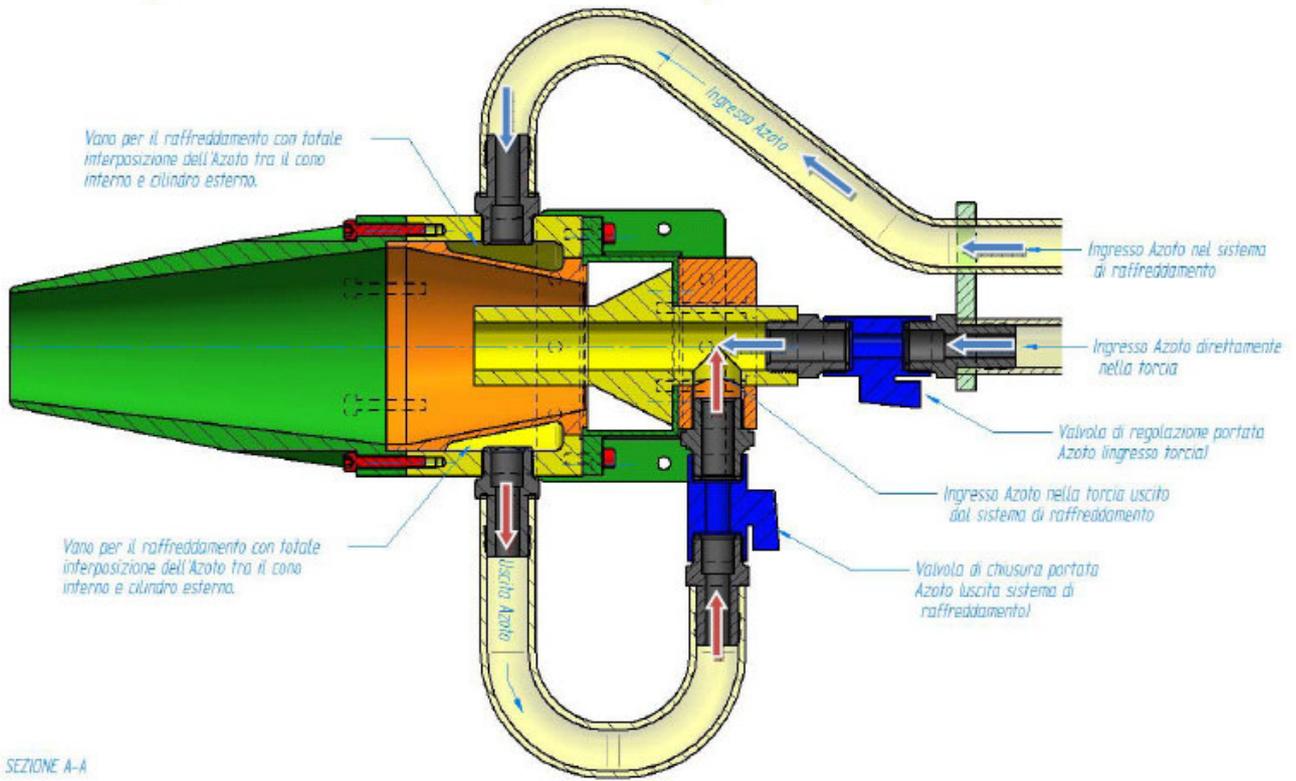


Microwave and plasma applicator: functional detail and photos

The solution identified as the best for the plasma torch is called "open deck" because it allows to interpose the nitrogen between the inner cone and the outer cylinder, ensuring maximum heat exchange and maximizing the thermal efficiency of the exchanger. This solution is the most efficient from the thermal point of view, because the hollow space that is created by the assembly of the two pieces (cone and cylinder) maximizes the exchange surface. Nitrogen that enters the heat exchanger should be in direct contact with the cone, unlike other solutions tested, in which the flow of gas passes inside of tubes which, in turn, are in contact with the cone to be cooled.





The wire to be treated passes at the end of the nozzle (yellow), which creates the plasmatic flame.
Following photos of the torch before the final installation.



