

## *Summary*

# **Specification for manual blow pipes for welding and cutting**

## **IS 7653: 1975**

A manual blow pipe, or manual gas cutting and welding torch, is a handheld tool used in metal cutting and welding. It operates by mixing oxygen with a fuel gas (such as acetylene or propane) to produce a high-temperature flame capable of cutting or welding metal. The tool has separate valves for adjusting the oxygen and fuel gas flow, allowing precise control of the flame. Manual blow pipes are widely used in fabrication, construction, and repair for their portability, ease of use, and versatility in handling various metals and thicknesses.

IS 7653 is an Indian Standard that specifies the requirements for gas welding blowpipes used in welding, cutting, and heating applications. This standard outlines guidelines on the design, materials, construction, and performance of blowpipes to ensure safe and efficient operation.

The standard covers various types of blowpipes that operate using fuel gases like acetylene mixed with oxygen, providing specifications for different nozzle sizes and flow rates to suit a range of applications and metal thicknesses. IS 7653 also includes testing requirements for durability, flame stability, and resistance to backfire to ensure the blowpipe performs reliably and safely under different working conditions. Overall, IS 7653 ensures that gas welding blowpipes meet the necessary quality and safety standards for use in metalworking and fabrication.