



IS 10245 (Part 2): 2023 Respiratory Protective Devices – Specifications Part 2

Self – Contained Open Circuit Breathing Apparatus

A breathing apparatus is one of the most important lifesaving equipment and the self-contained open circuit breathing apparatus is widely used in work situation where the risk of over pressurization of the cylinders due to hot environmental conditions is low and this standard specifies its minimum performance requirements.

Depending upon the purpose these self-contained open circuit breathing apparatus are of two types: Class 1 - Apparatus for industrial use and Class 2 – Apparatus for firefighting.

The performance of this apparatus is ensured through its **Designs, Components/Materials, Procedures** opted for **Cleaning and Disinfection, Mass, Water Immersion** during submerged **Condition, Work Ability of demountable Connections, Couplings, Strength of Connections, Capability** of standing with drop for the **Body Harness** and the **Practical performance**.

Further various parameters related to **Resistance for Temperature and Flammability, Pressure Reducer, Warning Devices, Leak Tightness, Water Immersion** and **Resistance to collapse of Breathing Hose/Breathing Resistance** are ensured so that the equipment performs as per desired conditions and its purpose. These parameters are detailed with test procedures in the IS 10245 (Part 2): 2023 and the desired frequency is specified in the SIT related to their standard.