

# *Indian Standard*

## **SPECIFICATION FOR STEAM STERILIZERS**

### **PART 3 PRESSURE STERILIZERS, VERTICAL CYLINDRICAL TYPE**

#### **0. FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 22 May 1985, after the draft finalized by the Hospital Equipment Sectional Committee had been approved by the Consumer Products and Medical Instruments Division Council.

**0.2** Adequate provisions have been made throughout the standard for the safety and satisfactory design of the apparatus, bearing in mind the fact that a good deal of latitude is to be allowed to the individual manufacturer of sterilizers to introduce innovations and refinements.

**0.3** The problem of explosion risk arising from fumes of anaesthetic agents have not been taken into consideration on the understanding that sterilizers dealt with in this standard would be installed generally remote from the anaesthetizing area in the operation theatre, and that the anaesthetic room would be outside the zone of explosion risk. Installation of these sterilizers is not recommended in an operation theatre.

**0.4** This standard covers, by and large, the performance aspects of sterilizers. Dimensions of component parts have not been specified. It is recognized that some parts of the sterilizers may have to be replaced during use. For this reason, it is essential that the manufacturers should so design their sterilizers that the spare parts of any particular size are interchangeable within one's manufacture.

**0.5** In the preparation of the standard considerable assistance has been derived from the following publications:

BS 3970 : Part 1 : 1966 Steam sterilizers, Part 1 Sterilizers for porous loads. British Standards Institution.

BS 3970 : Part 2 : Steam Sterilizers, Part 2 Sterilizers for bottled fluids, British Standards Institution.

## IS : 3829 ( Part 3 ) - 1985

**0.6** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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### 1. SCOPE

**1.1** This standard specifies requirements for non-automatic, pressure steam sterilizers, vertical, cylindrical type designed for working pressure of  $126 \text{ kN/m}^2$  (  $1.26 \text{ kgf/cm}^2$  approx ) gauge but shall be set to operate at  $105 \text{ kN/m}^2 + 15 \text{ kN/m}^2$  (  $1.05 + 0.15 \text{ kgf/cm}^2$  approx ) gauge pressure ( corresponding temperature of the saturated steam inside the chamber is minimum  $121^\circ\text{C}$  ).