**Doc No: MHD 11 (25226)**

**IS xxxxx: 2024**

**ISO 5359:2014 + AMD 1:2017**

*भारतीय मानक*

**एनेस्थेटिक और श्वसन उपकरण**

**चिकित्सा गैसों के उपयोग के लिए लौ-प्रेशर होस असेंबली**

*Indian Standard*

**Anaesthetic and Respiratory Equipment**

**Low-Pressure Hose Assemblies for Use with Medical Gases**

ICS 11.040.10, 83.140.40

Anaesthetic, Resuscitation and Allied Equipment Sectional Committee, MHD 11

This Indian Standard is an identical adoption of ISO 5359:2014 ‘Anaesthetic and respiratory equipment — Low-pressure hose assemblies for use with medical gases’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Anaesthetic, Resuscitation and Allied Equipment Sectional Committee and approval of the Medical Equipment and Hospital Planning Division Council.

Amendment 1 published in 2017 to ISO 5359:2014 is given at the end of this publication.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard

without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

1. Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’
2. Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian

Standards also exist. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 1307:2006, Rubber and plastics hoses — Hose sizes, minimum and maximum inside diameters, and tolerances on cut-to-length hoses | IS 15933: 2011/ ISO 1307: 2006, Rubber and Plastics Hoses — Hose Sizes, Minimum and Maximum Inside Diameters, and Tolerances on Cut-To-Length Hoses | Identical |
| ISO 1402:2021, Rubber and plastics hoses and hose assemblies — Hydrostatic testing | IS 443 (Part 3): 2023/ ISO 1402: 2021, Methods of Test for Rubber and Plastics — Tubing, Hoses and Hose Assemblies Part 3 Rubber and Plastics Hoses and Hose Assemblies — Hydrostatic Testing (Fourth *Revision*) | Identical |
| ISO 8033:2016, Rubber and plastics hoses — Determination of adhesion between components | IS 443 (Part 7): 2022/ ISO 8033: 2016, Methods of Test for Rubber and Plastics — Tubing, Hoses and Hose Assemblies Part 7 Rubber and Plastics Hoses — Determination of Adhesion Between Components | Identical |
| ISO 9170-1:2017, Terminal units for medical gas pipeline systems — Part 1: Terminal units for use with compressed medical gases and vacuum | IS 17812 (Part 1): 2022/ ISO 9170-1:2017, Terminal Units for Medical Gas Pipeline Systems: Part 1 Terminal Units for use with Compressed Medical Gases and Vacuum (*First Revision*) | Identical |
| ISO 14155:2020, Clinical investigation of medical devices for human subjects — Good clinical practice | IS/ISO 14155: 2020, Clinical investigation of medical devices for human subjects - Good clinical practice | Identical |
| ISO 14971: 2019, Medical devices — Application of risk management to medical devices | IS/ISO 14971: 2019, Medical devices - Application of risk management to medical devices (*First Revision*) | Identical |
| ISO 15001:2010, Anaesthetic and respiratory equipment — Compatibility with oxygen | IS/ISO 15001: 2010, Anaesthetic and respiratory equipment - Compatibility with oxygen (*First Revision*) | Identical |

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 shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (revised)’.

This standard also makes a reference to the BIS Certification Marking of the product. Details of which is given in National Annex A.

**NATIONAL ANNEX A**

(National Foreword)

**A-1 BIS CERTIFICATION MARKING**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the BIS Act, 2016 and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.