

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा
सिम्स पैटर्न का एंटरियार योनिक आड़ रिट्रेक्टर – विशिष्टि
(IS 5849: 1970 का पहला पुनरीक्षण)

Draft Indian Standard
**ANTERIOR VAGINAL WALL RETRACTOR, SIM'S
PATTERN – SPECIFICATION**
(First Revision of IS 5849: 1970)

ICS 11.040.30

Obstetric and Gynaecological Instruments
and Appliances Sectional Committee, MHD 03

Last date for comments: 01 May, 2024

FOREWORD

(Formal clause will be added later)

This standard was originally published in 1970. The first revision of this standard has been brought out to align the standard with the latest style and format of Indian Standards. This revision incorporates Amendment No. 1 issued in 1981.

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: 2022 'Rules for Rounding Off Numerical Values (*second revision*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

1 SCOPE

This standard specifies the requirements for anterior vaginal wall retractor (Sim's pattern).

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

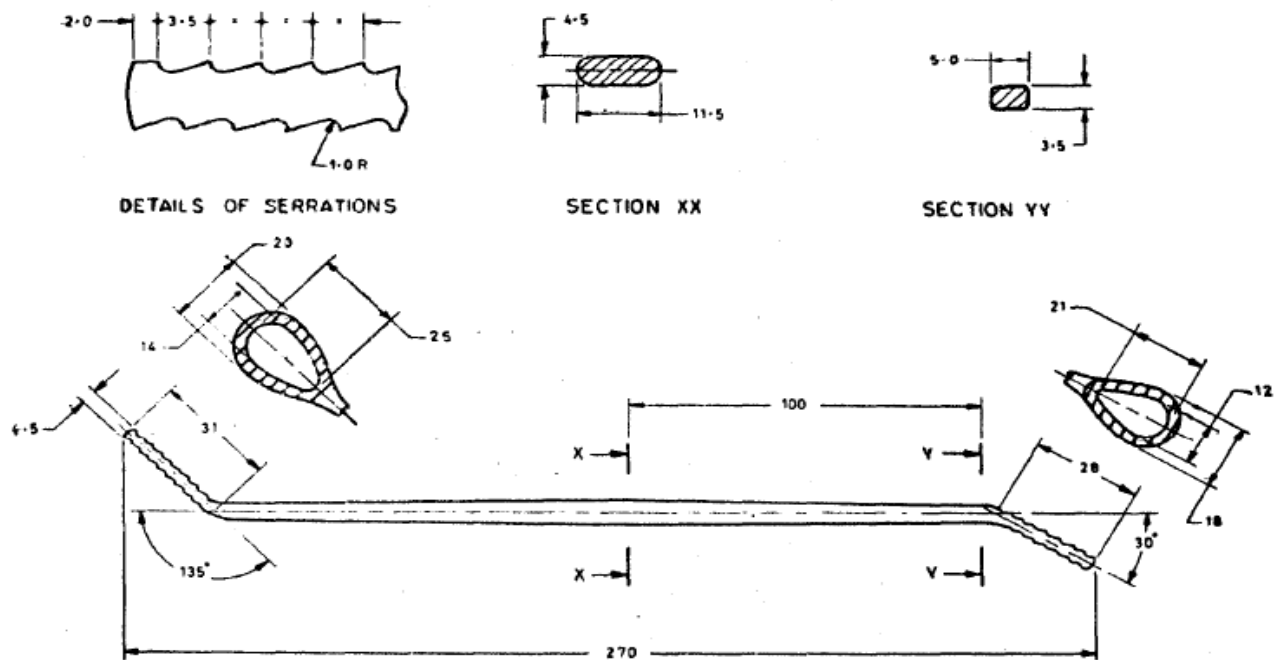
| IS No. | Title |
|------------------------|--|
| IS 1570 (Part 5): 1985 | Schedules for wrought steels Part 5 Stainless and heat-resisting steels (<i>second revision</i>) |
| IS 7531: 1990 | Surgical instruments – Corrosion resistance of stainless steel surgical instruments – Methods of tests (<i>first revision</i>) |

3 MATERIAL

The material shall be stainless steel of designation X22Cr13 or X30Cr13 as per IS 1570 (Part 5).

4 SHAPE AND DIMENSIONS

The shape & dimensions shall be as shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 RETRACTOR, ANTERIOR VAGINAL WALL (SIM'S PATTERN)

5 WORKMANSHIP AND FINISH

5.1 All the surfaces of the retractor shall be free from burrs, pits, cracks and other surface flaws and, except the serrated parts of the blades, shall be smooth.

5.2 The blades shall nowhere be sharp.

5.3 The retractor shall be passivated and polished bright.

6 HEAT TREATMENT

The instrument shall be hardened and tempered to 430 to 490 HV.

7 TESTS

7.1 Grip the shaft of the retractor in one hand. Hold each blade in turn by other hand and try to straighten the blade by applying a heavy manual force damage after test. The blades shall resist this and show no sign of damage after test.

7.2 Grip the shaft firmly in a vice close to its junction with the large blade, with the blade protruding and facing upwards. Suspend a load of 180 N from the tip of the blade. Attain this load gradually and allow to act for 2 minutes. Similarly carry out the test on the small blade using a load of 100 N. After the test, the retractor shall show no sign of damage.

7.3 Corrosion Resistance Test

Test the sample in accordance with IS 7531. The sample shall show no sign of corrosion after the test.

8 MARKING

8.1 The product shall be legibly and indelibly marked with the following:

- a) Manufacturer's name, initials or registered trade-mark;
- b) Country of manufacture; and
- c) The words 'Stainless Steel' or the letters 'SS'

8.2 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 *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed there under, and the product(s) may be marked with the Standard Mark.

9 PACKING

The retractors shall be wrapped in moisture-proof paper or packed in polyethylene bags avoiding contact with one another.