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भारतीय मानक मसौदा
डेंटल रिट्रेक्टर — विशिष्टि
[IS 10088 का पहला पुनरीक्षण]

Draft Indian Standard
Dental Retractor — Specification
[First Revision of IS 10088]

[ICS 11.060.20]

Dentistry Sectional Committee, MHD 08

Last date for comments:
06 September 2024

FOREWORD

(Formal clause will be added later)

This standard was originally published in 1981 as ‘Specification for Retractor, Dental’ This revision aligns the cross references to the latest standards, incorporates revised designations for steel and revised certification clause.

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 the same as that of the specified value in this standard.

1 SCOPE

This standard covers dimensional and other requirements for retractor used in dentistry.

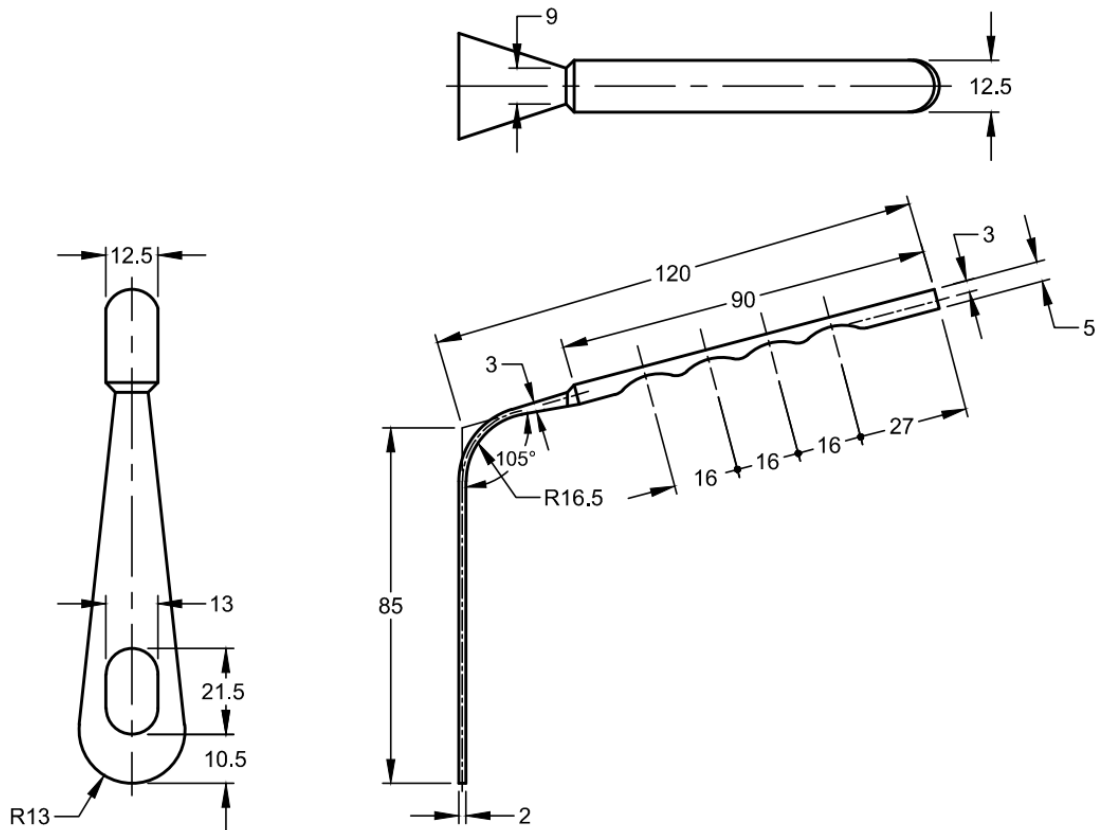
2 REFERENCES

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 6603 : 2024	Stainless Steel Semi-Finished Products, Bars, Wire Rods and Bright Bars — Specification (<i>Second Revision</i>)
IS 7531 : 1990	Surgical instruments — Corrosion resistance of stainless steel surgical instruments — Methods of tests (<i>First Revision</i>)

3 SHAPE AND DIMENSIONS

As shown in Fig. 1 to 4 for various types.



All dimensions in millimetres.
Fig. 1 Retractor, Dental (Type 1)

3.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.

4 MATERIAL

Stainless steel conforming to Designation X30Cr13 of IS 6603.

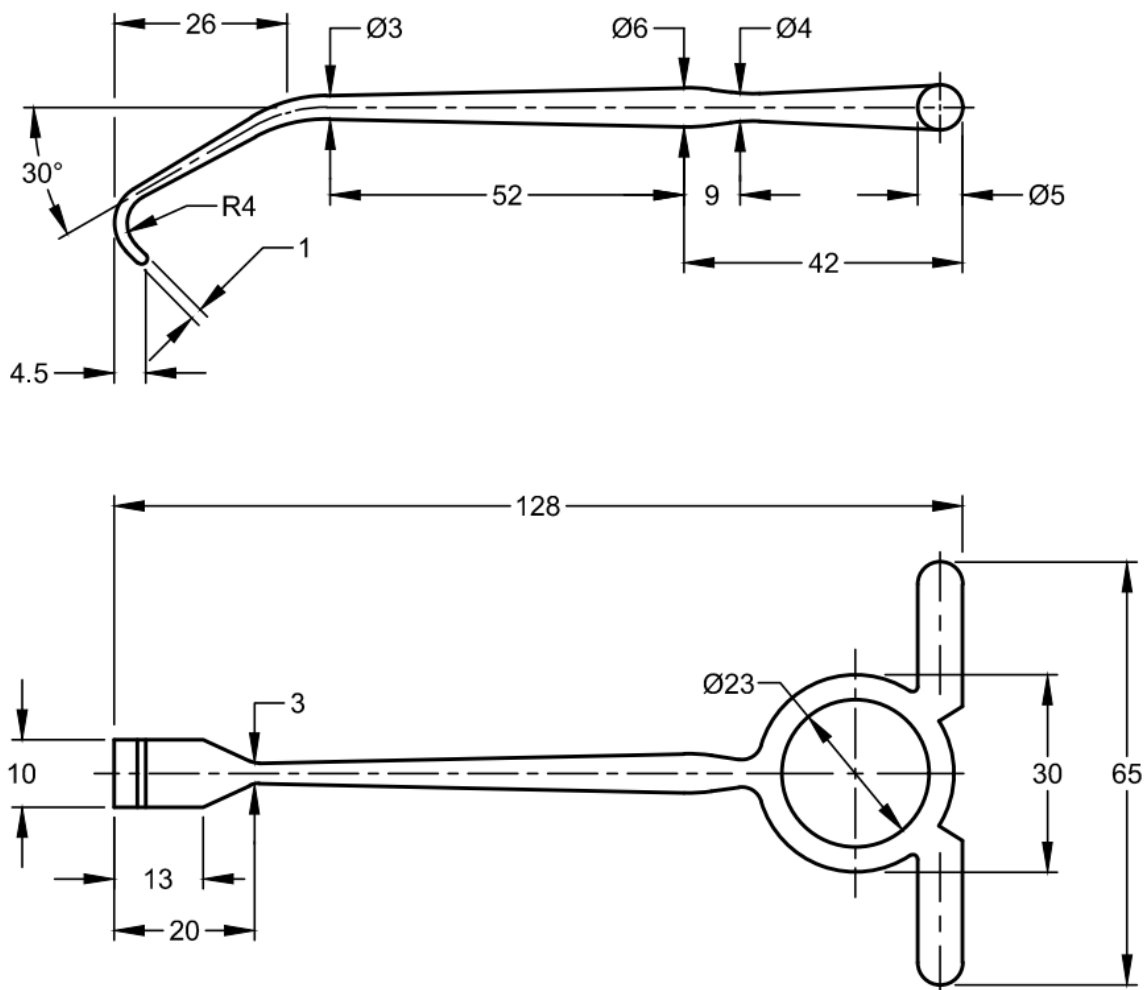
5 WORKMANSHIP AND FINISH

5.1 The surfaces of the instrument shall be free from burrs, pits, cracks and other defects, and shall be finished smooth.

5.2 The edges shall be even. They shall be rounded and shall not incise the skin.

5.3 The instrument shall be soundly forged and balanced on its central line.

5.4 The instrument shall be passivated and polished bright.



All dimensions in millimetres
Fig. 2 Retractor, Dental (Type 2)

6 HEAT TREATMENT

The instrument shall be uniformly hardened and tempered to a hardness of 430 to 530 *HV*.

7 CORROSION RESISTANCE TEST

Test the instrument as prescribed in IS 7531. It shall show no sign of corrosion after the test.

8 MARKING

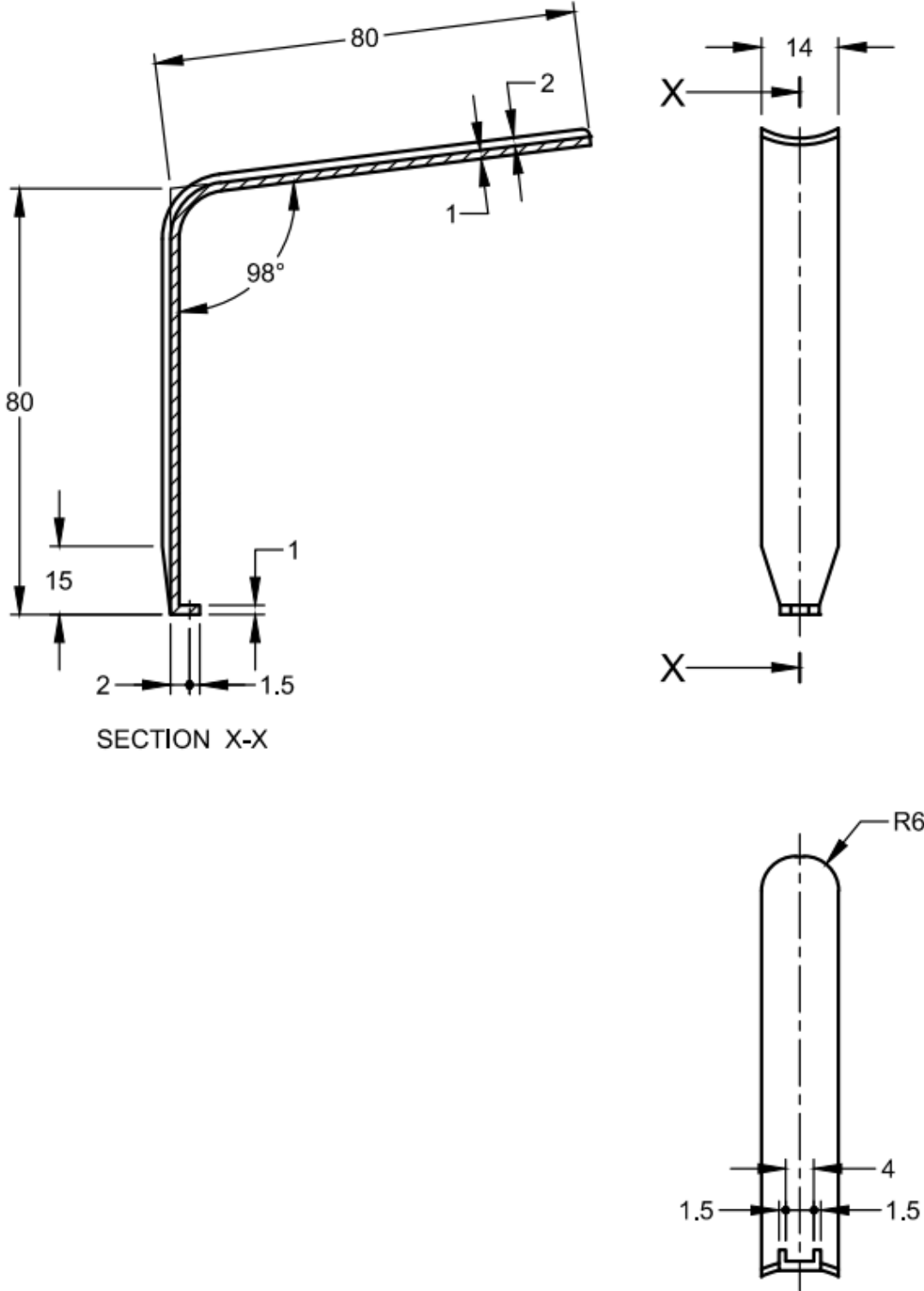
8.1 Each instrument shall be marked with the manufacturer's name, initials or recognized trade-mark and the country of manufacture.

8.2 BIS Certification Marking

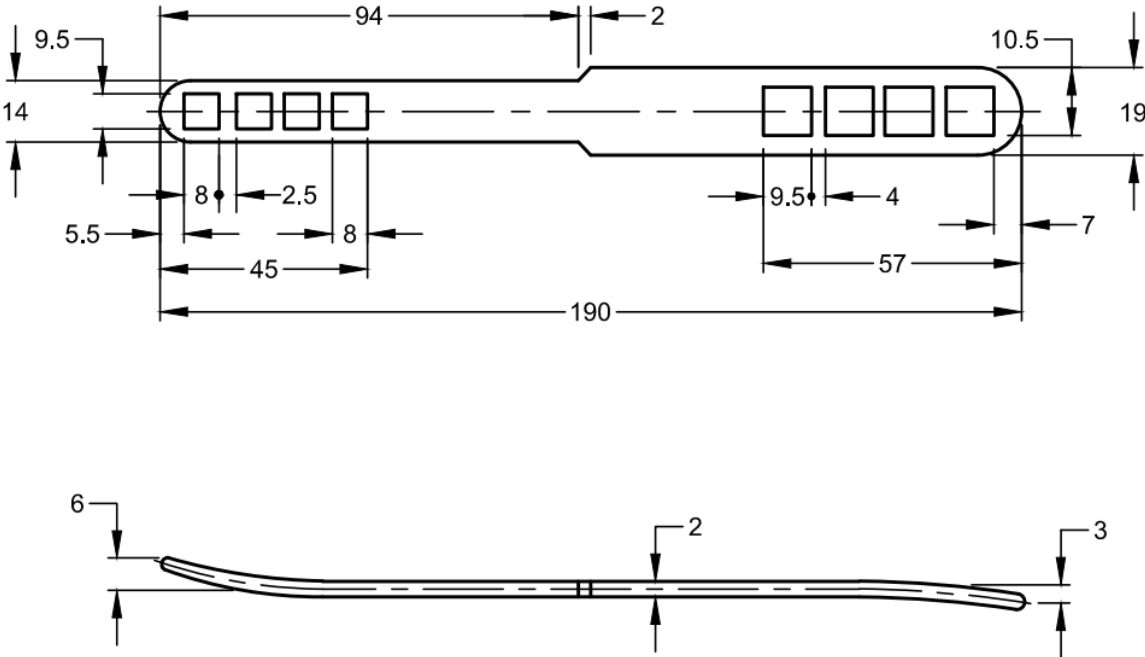
The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed there under, and the product(s) may be marked with the Standard Mark.

9 PACKING

The instrument shall be wrapped in a moisture-proof paper or packed in a polyethylene bag using suitable cushioning material like folded tissue paper, and shall then be packed in individual carton, or shall be packed as agreed between the purchaser and the supplier.



All dimensions in millimetres.
Fig. 3 Retractor, Dental (Type 3)



All dimensions in millimetres.
Fig. 4 Retractor, Dental (Type 4)