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भारतीय मानक मसौदा

सामान्य एवं बाल चिकित्सा सर्जरी उपकरण - मूत्राशय ध्वन - विशिष्टि

(IS 9416 का पहला पुनरीक्षण)

Draft Indian Standard

**General and Paediatric Surgery Instruments - Bladder Sound-
Specification**

(First Revision of IS 9416)

ICS 11.040.30

Surgical Instruments Sectional Committee,
MHD 01

Last date for comments: **03 Aug 2023**

FOREWORD

(Formal Clause will be added later)

This standard was originally published in 1980. The first revision of this standard has been taken up in order to align the cross-references to the latest standards.

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 the standard.

1 SCOPE

This standard covers the dimensional and other requirements for bladder sound used in general and paediatric surgery

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

<i>IS No.</i>	<i>Title</i>
IS/ISO 7153-1 : 2016	Surgical instruments - Materials: Part 1 metals
IS 7531 : 1990	Surgical instruments - Corrosion resistance of stainless steel surgical instruments - Methods of tests (First Revision)

3 SHAPE AND DIMENSIONS

The shape and dimensions of the different sizes of bladder sound shall be as shown in Fig. 1 and Table 1.

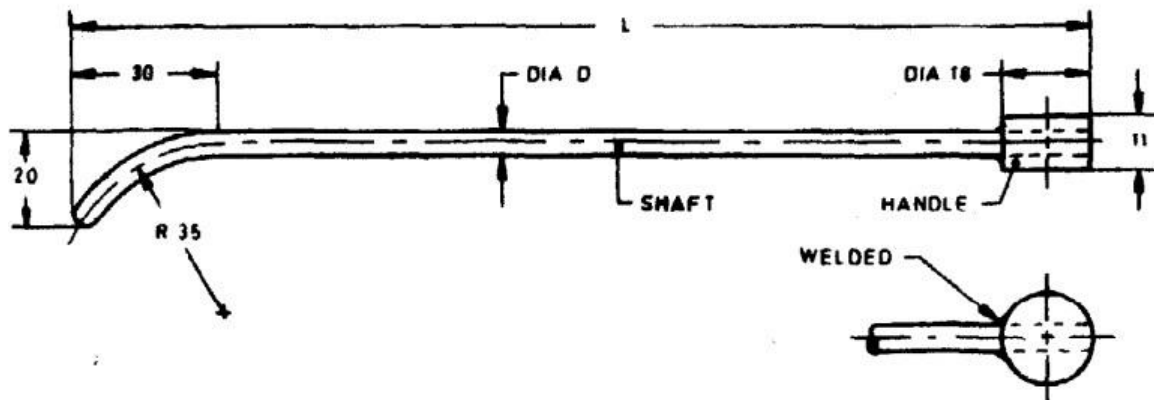


FIG. 1 BLADDER SOUND

Table 1 Diameter and Length of Bladder Sound

(Clause 3)

All dimensions in millimetres.

Size (1)	Dia (D) (2)	Length (L) (3)
1	3	150
2	4	180
3	5	210
4	6	240
5	7	270

4 MATERIAL

Bladder sound shall be made from stainless steel as specified in IS/ISO 7153 (Part 1).

5 WORKMANSHIP AND FINISH

All surfaces shall be free from burrs, pits, cracks and other surface defects. The tip and the shaft shall be smoothly rounded. Handle and shaft of the sound shall be finished smooth, polished bright and passivated.

6 TESTS

6.1 Flexibility

6.1.1 Grip the shaft firmly in a vice close to its joint with the handle protruding out. Try to rotate the handle by gripping it between the index finger and the thumb of one hand. The handle shall not rotate or show any damage.

6.2.2 Grip the shaft firmly in a vice close to angled portion horizontally so that rest of the shaft above angled portion protrudes out. Suspend a weight at the joint gradually increasing to 20N and allow it to act for two minutes and then release the load. No permanent set shall be allowed.

6.2 Corrosion Resistance

The instrument shall show no sign of corrosion when put to boiling and autoclaving test in accordance with IS 7531.

6.3 Hardness

The bladder sound shall be hardened and tempered to give hardness of 320 to 370 HV.

7 PACKING AND MARKING

7.1 PACKING

The instrument shall be wrapped in moisture-proof paper or packed in polyethylene bags avoiding contact with one another or as agreed to between the purchaser and the supplier.

7.2 MARKING

7.2.1 The bladder sound shall be clearly and indelibly marked with the following:

- a) Manufacturer's name, initials or recognized trade-mark;
- b) The words 'Stainless Steel' or 'SS';
- c) Size number, and
- d) Batch Number

7.3 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 thereunder, and the products may be marked with the Standard Mark.