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भारतीय मानक मसौदा

ईएनटी शल्य चिकित्सा उपकरण – सक्शन ट्यूब –

यानकाउर पैटर्न – विशिष्टि

(IS 8735 का पहला पुनरीक्षण)

Draft Indian Standard

**ENT Surgery Instruments — Suction Tube —
Yankauer's pattern — Specification**

(First Revision of IS 8735)

[ICS 11.040.30]

Ear, Nose, Throat and Head & Neck Surgery (ENT -
H&N) Instruments Sectional Committee, MHD 04

Last date for comments:
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FOREWORD

(Formal clause will be added later)

This standard was originally published in 1978. The first revision of this standard has been brought out to align it with the recent developments and to bring the standard in line with the latest style and format of Indian 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 this standard.

Indian Standard

ENT SURGERY INSTRUMENTS — SUCTION TUBE — YANKAUER'S
PATTERN — SPECIFICATION

1 SCOPE

This standard covers dimensional and other requirements of Yankauer's pattern Suction Tube used in ENT 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.

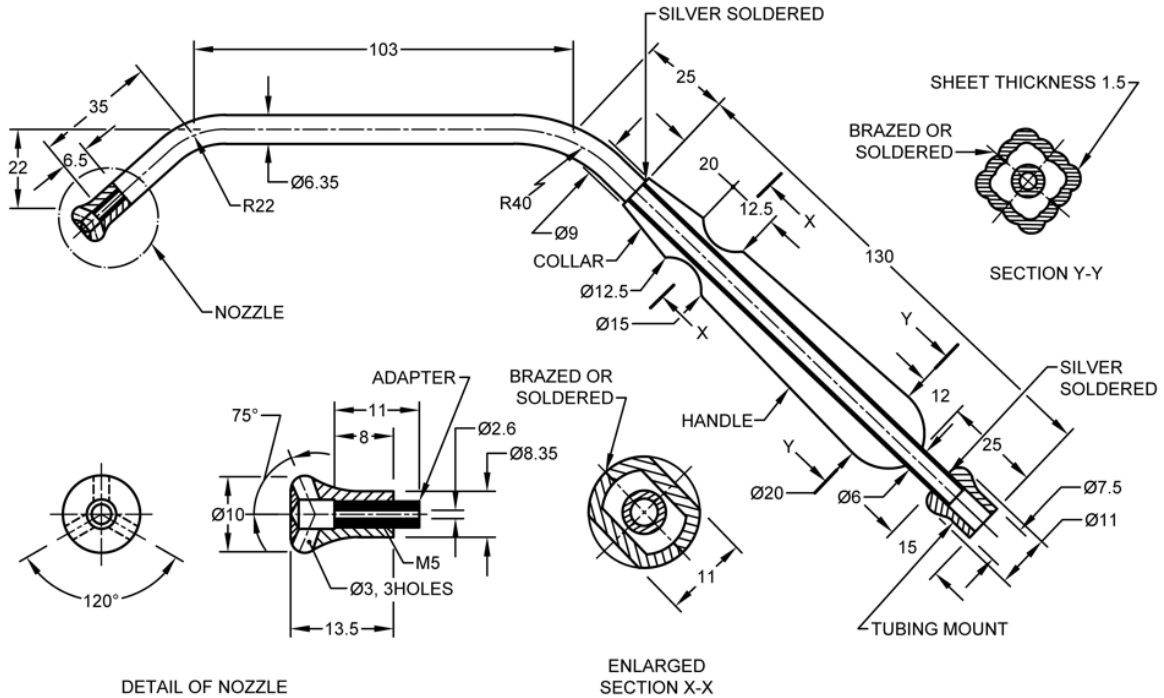
<i>IS No.</i>	<i>Title</i>
IS 6911 : 2017	Stainless steel plate, sheet and strip - Specification (<i>Second Revision</i>)
IS 407 : 1981	Specification for brass tubes for general purposes (<i>Third Revision</i>)
IS 422 : 1981	Specification for brass sheet and strip for the manufacture of utensils (<i>Second Revision</i>)
IS 1068 : 1993	Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium - Specification (<i>Third 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

3.1 The shape and dimensions shall be as shown in **Fig. 1**.

4 MATERIAL

The tube and the handle shall be made of stainless steel sheet conforming to Designation X04Cr18Ni10 or X07Cr18Ni19 of IS 6911 or the tube shall be made from brass conforming to Designation CuZn30A5 or CuZn39 of IS 407. The handle shall be made from brass sheet conforming to Designation "CuZn40 of IS 422.



Size	L	No. of Screws
Large	500	4
Medium Large	400	3
Medium	350	2
Small	300	2

All dimensions in millimeters.

FIG. 1 ENT SURGERY INSTRUMENTS — YANKAUER'S PATTERN SUCTION TUBE

5. WORKMANSHIP AND FINISH

5.1 All the surfaces shall be even, smooth and free from burrs, cracks and other defects.

5.2 The joint shall be soundly brazed or soldered and shall be free from holes when tested as mentioned in 5.1.

5.3 The suction tube if made of stainless steel shall be polished bright and passivated.

5.4 The suction tube if made of brass shall be plated chromium over nickle conforming to grade 2 of IS 4827.

6. TESTS

6.1 Leakage Test

The brazed or soldered portion of the suction tube shall be immersed in boiling paraffin Wax for 2 minutes. There shall not be any air bubble visible on the surface of the liquid.

6.2 Corrosion Resistance Test

Test the suction tube if made of stainless steel in accordance with IS 7531. There shall not-be any sign of corrosion visible after the completion of the test.

6.2.1 The suction tube if made of brass and plated chromium over nickel shall pass the corrosion resistance test when tested in accordance with 6.6 and 6.6.1 of IS 4827.

6.3 Adhesion Test

The suction tube shall be tested for adhesion of the stainless steel coating in accordance with 6.7 of IS 4827. The coating shall continue to adhere to the basic metal and there shall be no separation between the coating and the basic metal.

7. MARKING

7.1 The suction tube shall be marked with the manufacturer's name, initials or recognized trademark and the country of manufacture.

7.2 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 thereunder, and the product(s) may be marked with the Standard Mark.

8. PACKING

The suction tubes shall be wrapped in moisture-proof paper or packed in polyethylene bags avoiding contact with one another. They may-also be packed as agreed to purchaser and the supplier.