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भारतीय मानक मसौदा

पीटीएफई (टेफ्लॉन) पिस्टन डेपथ गेज – विशिष्टि

(IS 9558 का पहला पुनरीक्षण)

Draft Indian Standard

PTFE (Teflon) Piston Depth Gauge – Specification

(First Revision of IS 9558)

[ICS 11.040.30]

Ear, Nose and Throat Surgery Instruments
Sectional Committee, MHD 04

Last date for comments: 21 November, 2023

FOREWORD

(Formal clauses will be added later)

This standard was originally published in 1980. The first revision of this standard has been brought out to align the standard with the latest style and format of Indian Standards. In this revision, the grade designation of stainless steel 316 has been included in the material 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 same as that of the specified value in this standard.

1 SCOPE

This standard specifies requirements of PTFE (Teflon) piston depth gauge used in ENT microsurgery.

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 6603: 2001 | Stainless steel bars and flats – Specification (<i>first revision</i>) |
| IS 6911: 2017 | Stainless steel plate, sheet and strip — 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 MATERIAL

The material shall be stainless steel conforming to designation X 30Cr13 or X 40Cr13 of IS 6603 or Grade X 04Cr17Ni12Mo2 (Alloy 316) as per IS 6911.

4 SHAPE AND DIMENSIONS

4.1 The shape and dimensions shall be as per Fig. 1.

4.2 The tolerances on various dimensions shall be permitted as given below:

- a. ± 0.05 mm on dimensions up to 5 mm; and
- b. ± 0.1 mm on dimensions above 5 mm and up to 10 mm.

5 WORKMANSHIP AND FINISH

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

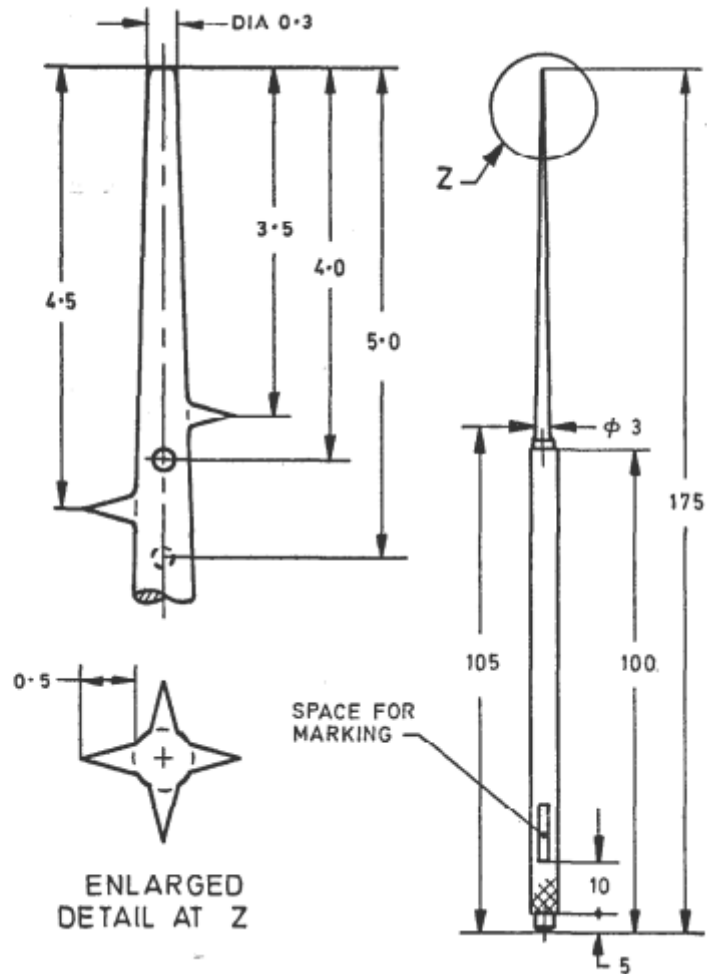
5.2 The surfaces shall be smooth except the working edges which shall be sharp pointed.

5.3 The handle shall be knurled to give a good grip.

5.4 The gauge shall be matt finished and passivated.

6 HARDNESS

The gauge shall be uniformly hardened and tempered to a hardness of 450 to 550 *HV*.



All dimensions in millimetres
Fig. 1 Teflon Piston Depth Gauge

7 CORROSION RESISTANCE TEST

The gauge shall be tested in accordance with IS 7531. There shall be no sign of corrosion after the test.

8 MARKING

8.1 The gauge shall be marked with the following:

- Manufacturer's name, initials or registered trade-mark in the space provided on handle;
- Country of manufacture; and
- The words 'Stainless Steel'.

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 depth gauge shall be wrapped in moisture-proof paper or any other suitable wrapping material. The gauge shall be packed in such a way that its working end does not come in contact with any hard surface resulting in any damage to it.