**IS 9558 : 2024**

*भारतीय मानक*

पीटीएफई (टेफ्लॉन) पिस्टन डेप्थ गेज — विशिष्टि

*( पहला पुनरीक्षण )*

*Indian Standard*

**PTFE (Teflon) Piston Depth Gauge — Specification**

*( First Revision )*

# ICS 11.040.30

**July 2024 Price Group**

Ear, Nose, Throat and Head & Neck Surgery Instruments Sectional Committee, MHD 04

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards after the draft Finalized by the Ear, Nose, Throat and Head & Neck Surgery Instruments Sectional Committee, had Been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1980. The (First Revision) of this Standard has been methods brought out to align with updated references and to bring the standard in line with the latest format of Indian Standards.

The composition of the Committee responsible for formulation of this standard is given in Annex A.

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*

PTFE (TEFLON) PISTON DEPTH GAUGE — SPECIFICATION

*( First Revision )*

# SCOPE

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

# 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.

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| --- | --- | --- |
| *IS No.* | *Title* | |
| IS 6603 : 2024 | Stainless steel semi-finished products, bars, wire rods and bright bars — Specification (*second revision*) |
| IS 6911 : 2017 | Stainless steel plate, sheet and strip — Specification (*second revision*) |
| IS 7531 : 1990 | Surgical instruments — Corrosion resistance of stainless steel surgical instruments — Methods of tests (*first revision*) |

# 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.

# SHAPE AND DIMENSIONS

1. The shape and dimensions shall be as per Fig. 1.
2. The tolerances on various dimensions shall be permitted as given below:
3. ±0.05 mm on dimensions up to 5 mm; and
4. ±0.1 mm on dimensions above 5 mm and up to 10 mm.

# WORKMANSHIP AND FINISH

1. All the surfaces shall be free from burrs, pits, cracks and other defects;
2. The surfaces shall be smooth except the working edges which shall be sharp pointed;
3. The handle shall be knurled to give a good grip; and
4. The gauge shall be matt finished and passivated.

# HARDNESS

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

1. s;
2. ; and
3. .

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# 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.



**ANNEX A**

(*Foreword*)

**COMMITTEE COMPOSITION**

Ear, Nose, Throat and Head & Neck Surgery Instruments Sectional Committee, MHD 04

| *Organization* | *Representative*(*s*) |
| --- | --- |
| All India Institute of Medical Sciences, New Delhi | Dr Rakesh Kumar **(*Chairperson*)** |
| All India Institute of Medical Sciences, New Delhi | Dr Prem Sagar  Dr Arvind Kumar (*Alternate*) |
| All India Institute of Medical Sciences, Bhopal | Dr Vikas Gupta  Dr Ganakalyan Behera (*Alternate*) |
| ALPS International, New Delhi | Shri Alok Narang  Shri Karan Narang (*Alternate*) |
| Association of Indian Medical Device Industry, New Delhi | Shri Tarlochan Dev  Shri Ankur Bhargava (*Alternate* I)  Dr C. S. Prasad (*Alternate* II) |
| Government Medical College & Hospital, Chandigarh | Dr Surinder K. Singhal  Mr Nitin Gupta (*Alternate*) |
| Happy Reliable Surgeries Private Limited, Bengaluru | Shri Hemant Savale |
| Shri Sanjeev Gautam (*Alternate*) |
| India Medtronic Private Limited, Gurugram | Shrimati Latika Vats  Shri Saurabh Sable (*Alternate* I)  Shri Sandeep Verma (*Alternate* II) |
| Indian Institute of Technology Kanpur, Kanpur | Dr A. R. Harish |
| Kalam Institute of Health Technology, Vishakhapatnam | Dr Arjun thimmaiah  Mr Amit Sharma (*Alternate*) |
| Serwell MediEquip, Chennai | Shri T. Jebin Samuel  Shri R. Radhakrishnan (*Alternate* I)  Shri G. Sathish (*Alternate* II) |
| Tata Memorial Center (Hospital), Mumbai | Dr Richa Vaish  Mr Vijay Yashwant Mestri (*Alternate* I)  Dr Arjun Singh (*Alternate* II) |
| BIS Directorate General | Shri A. R. Unnikrishnan, Scientist ‘G’/Head (Medical Equipment and Hospital Planning) [Representing Director General (*Ex-officio*)] |

*Member Secretary*

Ms Harshada Ganesh Kadam

Scientist ‘B’/Assistant Director

(Medical Equipment and Hospital Planning), Bis