

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा
एक सिरे का हेगर्स पैटर्न गर्भाशय डाइलेटर्स – विशिष्टि
(IS 6584 का पहला पुनरीक्षण)

Draft Indian Standard

Single-ended Hegar's Pattern Uterine Dilators – Specification
(First Revision of IS 6584)

ICS 11.040.30

Obstetric and Gynaecological Instruments
and Appliances Sectional Committee, MHD 03

Last date for comments: **27 July 2024**

FOREWORD

(Formal clauses will be added later)

This standard was originally published in 1972. The first revision of this standard has been brought out to align the standard with the latest style and format of Indian Standards. Also, cross-references to Indian Standards have been updated.

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 the dimensional and other requirements for uterine dilators, single ended, Hegar's pattern.

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.

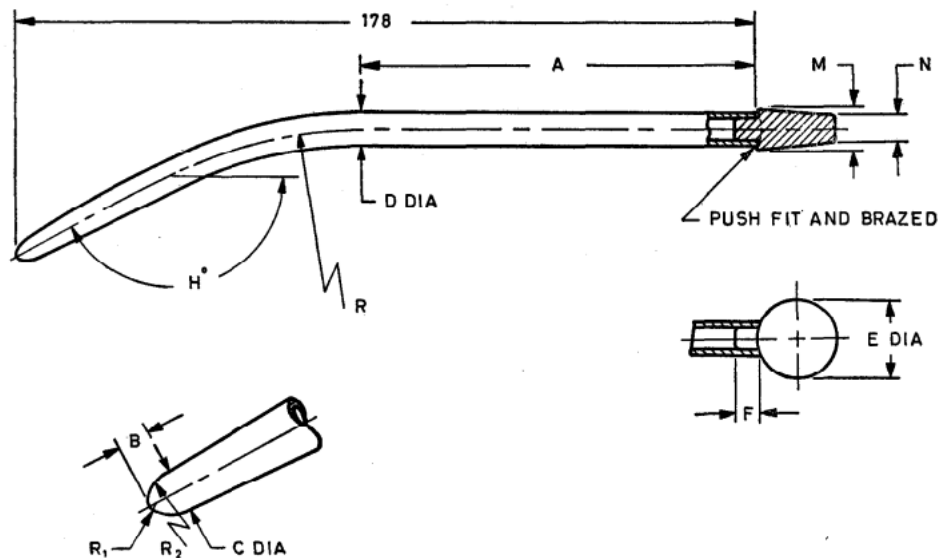
IS No.	Title
IS 1068: 1993	Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium – Specification (<i>third revision</i>)

3 MATERIAL

The material shall be of solid drawn brass tubes with minimum 60% copper.

4 SHAPE AND DIMENSIONS

The shape & dimensions shall be as shown in Fig. 1.



Size	A	B	C ± 0.1	D ± 0.1	E	F	H	M	N	R	R1	R2	Weight ± 5%
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	g
3/6	95	2.5	3	6	19	6.3	152	7.0	4.5	98	1.0	3.8	23
4/7	95	3.3	4	7	19	6.3	152	8.0	5.6	98	1.0	4.0	28
5/8	95	4.0	5	8	19	6.3	152	9.0	6.6	98	1.0	4.5	34
6/9	95	5.0	6	9	19	6.3	152	10.0	7.6	98	1.2	5.3	41
7/10	95	5.6	7	10	19	6.3	152	11.0	8.6	98	1.2	6.0	49

8/11	82	6.3	8	11	22	8.1	156	12.4	9.3	131	1.2	7.0	58
9/12	82	7.0	9	12	22	8.1	156	13.4	10.4	131	1.5	8.0	69
10/13	82	8.0	10	13	22	8.1	156	14.4	11.4	131	1.5	9.0	82
11/14	82	8.5	11	14	22	8.1	156	15.4	12.4	131	1.7	10.0	95
12/15	82	9.4	12	15	22	8.1	156	16.5	13.4	131	1.7	11.0	110
13/16	68.5	10.0	13	16	25	9.6	160	18.0	14.2	165	2.0	12.0	125
14/17	68.5	11.0	14	17	25	9.6	160	19.0	15.2	165	2.0	13.0	142
15/18	68.5	12.0	15	18	25	9.6	160	20.0	16.2	165	2.2	14.0	159
16/19	68.5	12.7	16	19	25	9.6	160	21.0	17.2	165	2.2	15.0	178
17/20	68.5	13.4	17	20	25	9.6	160	22.0	18.2	165	2.5	16.0	197
18/21	68.5	14.0	18	21	25	9.6	160	23.0	19.3	165	2.5	17.0	218

All dimensions in millimetres.

FIG. 1 DILATORS, SINGLE ENDED (HEGAR'S PATTERN)

5 WORKMANSHIP AND FINISH

5.1 The surface of dilators shall be free from scales, burrs, pits, cracks and like defects.

5.2 The brazing shall be neat and sound.

5.3 The dilators shall be plated chromium over nickel, conforming to Service Condition No. 2 of IS 1068.

5.4 The tips of the dilators shall be rounded and smooth.

5.5 All edges shall be smoothly rounded off.

6 TESTS

Rigidity Test

The handle of the dilators shall in turn be gripped in a vice so that the whole length of the shaft protrudes from the vice jaw in the horizontal plane and the tip faces upwards. A load as shown in the table given below shall be suspended from the tip of the dilators:

Size of the Dilator	Load Suspended
3/6	1 kg
4/7	2 kg
5/8	3 kg
6/9	4.5 kg
7/10	6 kg
8/11	7 kg
9/12	9 kg
10/13	10 kg
11/14	12 kg
12/15	16 kg
13/16	20 kg
14/17	23 kg
15/18	25 kg
16/19	30 kg
17/20	30 kg
18/21	30 kg

The maximum load shall gradually be attained and shall act for two minutes. On completion of the test, the dilators shall show no sign of damage.

7 MARKING

7.1 The product shall be legibly and indelibly marked with the following:

- a) Manufacturer's name, initials or registered trade-mark;
- b) Country of manufacture; and
- c) The words 'Stainless Steel' or the letters 'SS'

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 there under, and the product(s) may be marked with the Standard Mark.

8 PACKING

The dilators shall be packed as agreed to between the purchaser and the supplier.