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IS 5658 (1990): Snipe Nose Pliers [PGD 5: Assembly Hand Tools]



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भारतीय मानक
लम्बे अग्र भाग वाले प्लास — विशिष्ट
(पहला पुनरीक्षण)

Indian Standard
SNIPE NOSE PLIERS — SPECIFICATION
(*First Revision*)

UDC 621.881.4

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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

February 1991

Price Group 2

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards on 18 May 1990, after the draft finalized by Assembly Hand Tools Sectional Committee had been approved by Production Engineering Division Council.

This standard was first issued in 1970. While revising this standard, the sizes have been rationalised based on the demand of the product, and have also been aligned with the work done at the international level. The tolerances and dimensions have been modified, hardness values aligned with those of other pliers of the same usage, torsion test deleted to align it with international standards and handle load test has been modified. Cutting test for Type B pliers has been included in the standard.

While preparing this standard, considerable assistance has been taken from ISO 5745 : 1982 'Pliers and nippers — Pliers for gripping and manipulating — Dimensions', issued by the International Organization for Standardization (ISO).

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 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SNIPE NOSE PLIERS — SPECIFICATION

(First Revision)

1 SCOPE

1.1 This standard covers the dimensions and other requirements for the snipe nose pliers.

2 REFERENCES

2.1 The following Indian Standards are necessary adjunct to this standard:

IS No.	Title
2615 : 1989	Technical supply conditions for pliers, pincers and nippers (second revision)
11526 : 1986	Nomenclature for pliers, pincers and nippers

3 TYPES

3.1 The snipe nose pliers shall be of two types:

Type A — Snipe nose pliers for gripping only

Type B — Snipe nose pliers with side cutters for gripping and hard wire cutting

4 NOMENCLATURE

4.1 For the purpose of this standard, the nomenclature as given in IS 11526 : 1986 shall apply.

5 DIMENSIONS

5.1 The dimensions of snipe nose pliers (Type A and Type B) shall be as given in Table 1.

6 HARDNESS

6.1 The hardness test on pliers shall be carried out in accordance with IS 2615 : 1989.

Jaws 350 — 510 HV (\approx 35 — 50 HRC)

Near Cutting Edges (Type B only) 510 — 700 HV (\approx 50 — 60 HRC)

7 GENERAL REQUIREMENTS

7.1 The material, manufacture, workmanship and finish, insulation tests, preservation and packing and sampling shall conform to IS 2615 : 1989.

7.2 In case of Type B plier, the ends of the jaws may not touch when the plier is closed, but shall leave a maximum clearance of 0.4 mm (see Fig. 1).

8 TESTS

8.1 The pliers shall be tested as specified in IS 2615 : 1989 but in the case of handle load test the following conditions shall apply.

8.1.1 Handle Load Test

The snipe nose pliers of Type A as well as Type B shall be tested for permanent set in accordance with 9.5 of IS 2615 : 1989. The permanent set shall not exceed the values after the application of load test as indicated in Table 2.

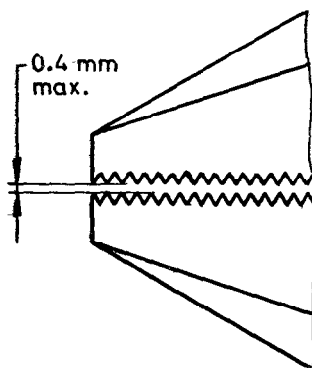


FIG. 1 MAXIMUM CLEARANCE OF JAWS FOR TYPE B PLIERS

8.2 Cutting Test

Type B snipe nose pliers shall be subjected to the hard wire cutting test as given in IS 2615 : 1989.

9 DESIGNATION

9.1 The snipe nose pliers shall be designated by its commonly used name, type, nominal size and IS number.

Example:

Snipe nose pliers of Type A and of

nominal size 140 mm shall be designated as:

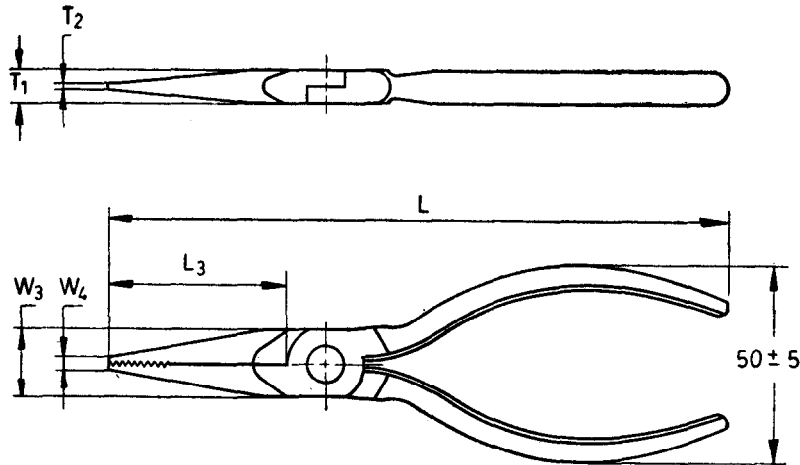
Snipe Nose Plier — A 140 — IS 5658

10 MARKING

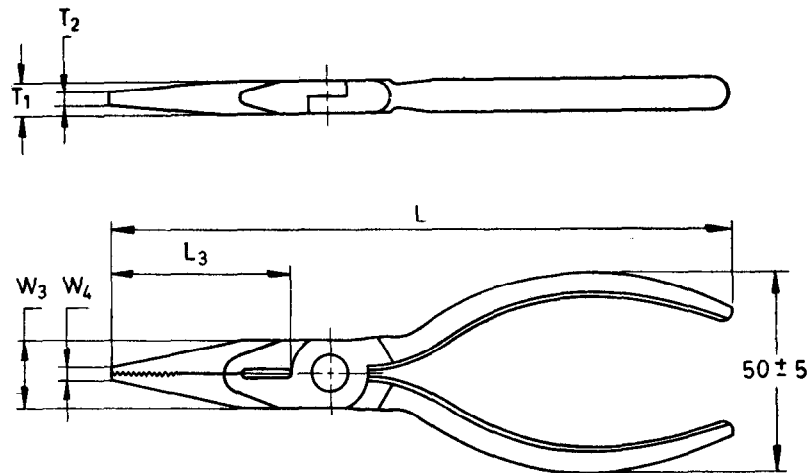
10.1 The pliers shall be clearly and legibly stamped with the nominal size, and the identity of the source of manufacture, initials or the recognized trade-mark. The year of manufacture may also be legibly stamped, if required by the purchaser.

Table 1 Dimensions for Snipe Nose Pliers, Type A and Type B
(Clause 5.1)

All dimensions in millimetres.



TYPE A

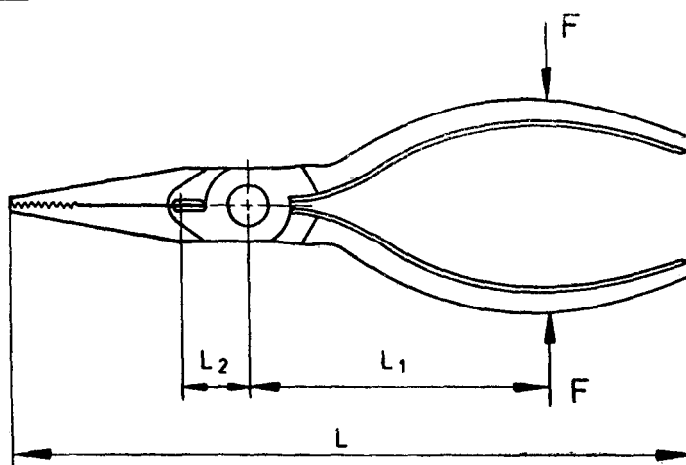


TYPE B

Nominal Size	L	Tolerance on L	L ₃	Tolerance on L ₃	W ₃ Max	W ₄ Max	T ₁ Max	T ₂ Max
140	140	± 7	40	± 3·2	16	2·5	8	2
160	160	± 8	50	± 4	18	3·2	9	2·5
200	200	± 10	75	± 6·3	22	5·0	11	4

Table 2 Test Requirements for Snipe Nose Pliers, Type A and Type B(*Clauses 8.1.1 and 8.2*)

All dimensions in millimetres.



Nominal Size L	L_1	L_2	Dia of Test Wire*	Load Test	
				Load, F N	Maximum Permanent Set, S
140	63	12.5	1.6	630	1
160	71	14	1.6	710	1
200	90	18	1.6	900	1

NOTE — Cutting test is applicable to Type B pliers only.

*For further details of test wire, see IS 2615 : 1989.

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Doc : No. PE 05 (4865)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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