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Indian Standard
**SPECIFICATION FOR
SURVEYING CHAIN PINS (ARROWS)**

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR SURVEYING CHAIN PINS (ARROWS)

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0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 26 June 1961, after the draft finalized by the Optical and Mathematical Instruments Sectional Committee had been approved by the Engineering Division Council.

0.2 This standard deals with the surveying chain pins (arrows) used extensively in chain surveying for marking chain lengths.

0.3 The Indian Standard Specification for Metric Surveying Chains, IS: 1492-1959, is a necessary adjunct to this standard.

0.4 Taking into consideration the views of producers, consumers and surveying organizations, the Sectional Committee responsible for the preparation of this standard decided to derive assistance from I.S.S. 167(C) Arrows, MK2/L/Trade Pattern issued by the Ministry of Defence, Government of India.

0.5 Metric system has been adopted in India and all the values given in this standard have been given in this system.

0.6 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, 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.

0.7 This standard is intended chiefly to cover the technical provisions relating to surveying chain pins, and it does not include all the necessary provisions of a contract.

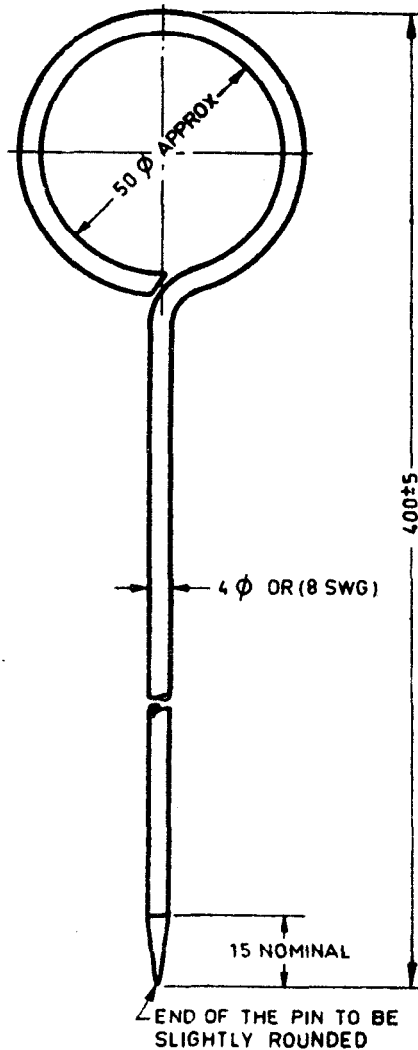
1. SCOPE

1.1 This standard covers the requirements for surveying chain pins (arrows).

2. MANUFACTURE AND FINISH

2.1 The chain pin shall be made of good quality hardened and tempered steel wire of a minimum tensile strength of 70 kg/mm². The wire shall be

black enamelled. The enamel shall be of uniform thickness, smooth and firmly adherent. The arrow shall have an eye at one end and be pointed at the other end as shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 SURVEYING CHAIN PIN (ARROW)

2.2 The dimensions of the arrow shall be as specified in Fig. 1

3. MARKING

3.1 Each pin shall be embossed with manufacturer's name or trade-mark at a convenient place on the loop.

3.1.1 The pins may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

4. PACKING

4.1 Each pin or a set of pins shall be initially wrapped in brown paper and then in gunny or canvas and packed as specified by the purchaser.

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