

IS : 3744 - 1985

Indian Standard
SPECIFICATION FOR
HOSE BINDING MACHINE
(First Revision)

UDC 614.843.2 : 621.643.415



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

Indian Standard

SPECIFICATION FOR HOSE BINDING MACHINE

(First Revision)

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Indian Standard
SPECIFICATION FOR
HOSE BINDING MACHINE
(First Revision)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 29 November 1985, after the draft finalized by the Fire Fighting Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 The hose binding machine is used for binding the coupling with fire hoses. A number of Indian Standards on fire hoses have been formulated and so as to cater to the requirements of binding such hoses, this Indian Standard has been formulated. This is one of the important equipment maintained by the fire brigades. The standard covers the detailed requirement of such machine. This standard was first published in the year 1966. Based on the experience gained in the past 18 years, the revision has been prepared. The major modifications are in respect to revolving sleeve which has been modified by the industry based on the ease of the use in the fire brigade and standardizing the essential dimensions of its components.

0.3 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*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard lays down the requirements regarding materials, construction and finish of hose binding machines for fire brigade use.

2. GENERAL

2.1 The hose binding machine shall have the following components:

- a) mounting bracket,

*Rules for rounding off numerical values (revised).

- b) threaded spindle,
- c) revolving sleeve,
- d) circular plate,
- e) rod with spring for carrying spool of wire,
- f) rod with guide roller,
- g) rod with grooved guide,
- h) spring,
- j) wire pool,
- k) guide roller, and
- m) binding adopter.

3. MATERIALS

3.1 Materials used for different component parts of the machine shall comply with the requirements given in Table 1.

TABLE 1 REQUIREMENTS FOR MATERIALS FOR VARIOUS COMPONENTS

SL No.	NAME OF COMPONENT	CONFORMING TO RELEVANT IS SPECIFICATION
i)	Mounting bracket	IS : 226-1975* or IS : 210-1978†
ii)	Threaded spindle	IS : 226-1975*
iii)	Revolving sleeve	IS : 226-1975*
iv)	Circular plate	IS : 226-1975*
v)	Rod with spring for carrying spool of wire-out of 20 mm ϕ	IS : 226-1975*
vi)	Rod with guide roller-out of 20 mm ϕ	IS : 226-1975*
vii)	Rod with grooved guide-out of 20 mm ϕ	IS : 226-1975*
viii)	Spring	IS : 4454 (Part 1)-1981‡
ix)	Wire spool	IS : 226-1975* or IS : 304-1981§
x)	Guide roller	IS : 226-1975*
xi)	Binding adopter	IS : 903-1984

*Specification for structural steel (standard quality) (*fifth revision*).

†Specification for grey iron castings (*third revision*).

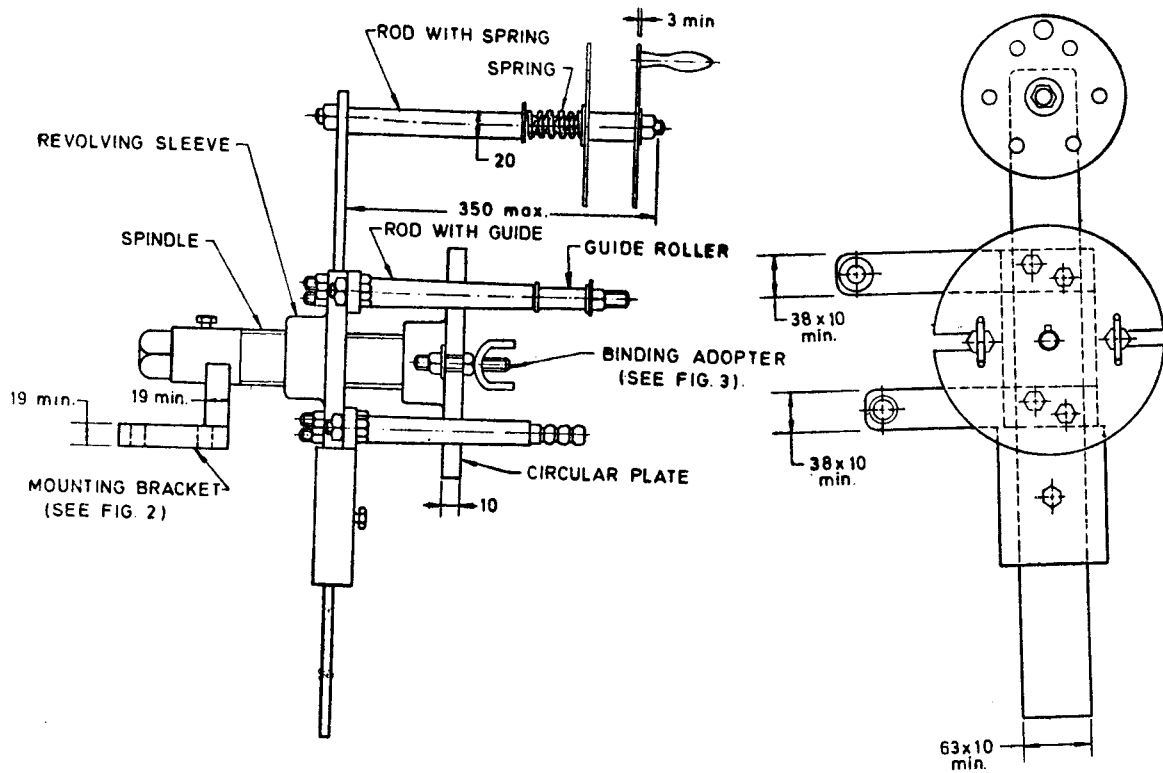
‡Specification for steel wire for cold formed spring: Part 1 Patented and cold drawn steel wires — unalloyed (*second revision*).

§Specification for high tensile brass ingots and castings (*second revision*).

||Specification for fire hose delivery couplings branch pipe, nozzles and nozzle spanner (*third revision*).

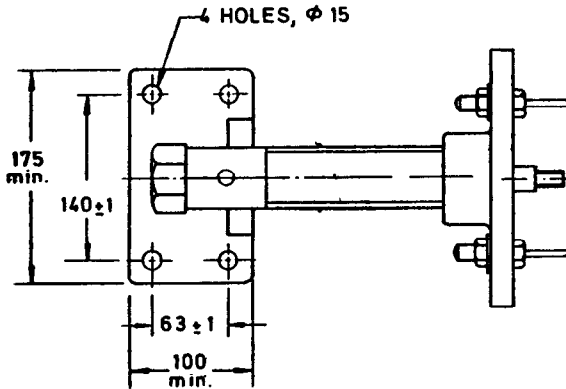
4. CONSTRUCTION

4.1 The details of constructions indicating the essential dimensions are given in Fig. 1, 2 and 3.



All dimensions in millimetres.

FIG. 1 DETAILS OF HOSE BINDING MACHINE



All dimensions in millimetres.

FIG. 2 DETAIL OF MOUNTING BRACKET

5. WORKMANSHIP AND FINISH

5.1 The complete machine shall be finished and painted in red and black paint. Any parts which are liable to constant scratching while the machine is in use shall not be plated.

6. MARKING

6.1 Each machine shall be clearly and permanently marked with the following information:

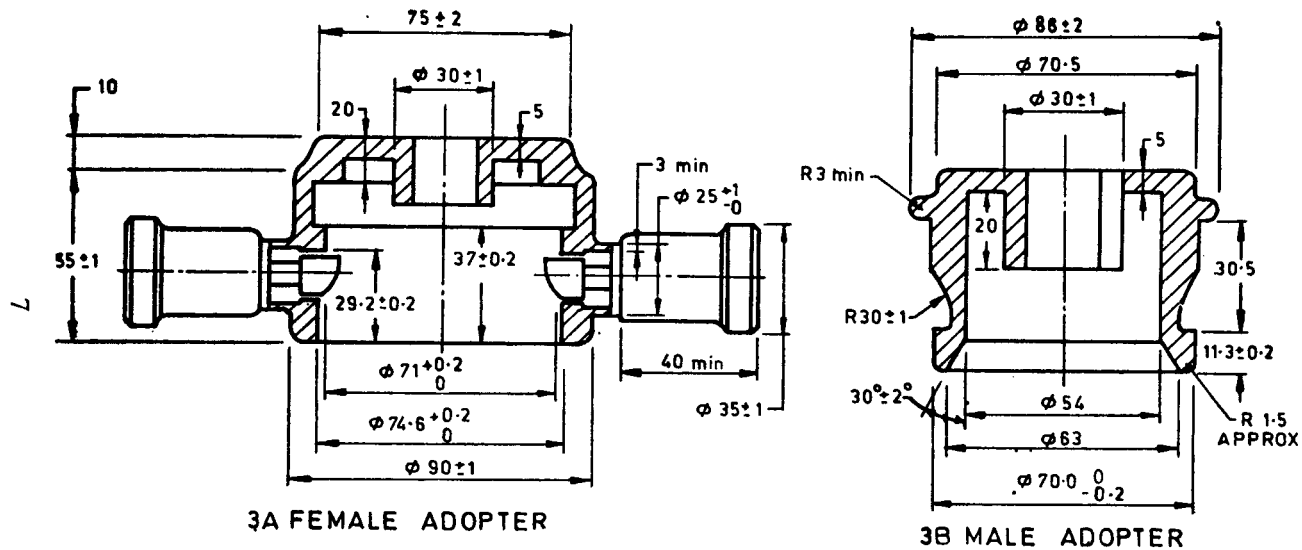
- a) Manufacturer's name or trade-mark, if any; and
- b) Year of manufacture.

6.1.1 The machine may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Mark) Act and the Rules and Regulations made thereunder. The ISI 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 ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7. CRITERIA FOR CONFORMITY

7.1 Each machine shall be checked for the requirements given in this standard.



All dimensions in millimetres.
FIG. 3 DETAILS OF BINDING ADOPTERS

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