

- a) Inner Shaft Spring steel conforming to IS: 4454-1967 ' Specification for steel wire for cold formed springs'.
- b) Outer Casing Rubber with the inner liner of steel having a minimum tensile strength of 1 200 MN/m<sup>2</sup> (120 kgf/mm<sup>2</sup> approx) with rolled rounded edges.

Adopted 21 September 1971	@ December 1971, ISI	Gr 2
INDIAN STANDARDS INSTITUTION		

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

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## IS : 6276 - 1971

## 7. General Requirements

7.1 The outer casing of the flexible shaft shall be capable of holding the needle securely without stretching under normal conditions of use in construction work, without damage to the inner shaft. Adequate insulated covering shall be provided for the outer casing.

7.2 Coupling or threading arrangement between the inner shaft and the vibrating needle shall be designed to prevent disengagement of the needle from the shaft during its operation.

## 8. Tests

8.1 Visual Inspection — The shaft shall be inspected for obvious flaws in the shaft, such as kinks, bends and looseness.

**8.2** Roll Test — A length of about one metre is taken and is laid on the floor in approximately 10-metre diameter curve and rolled back and forth from the centre by foot. The shaft shall roll smoothly throughout its length without offering resistance and shall roll without jerking or flapping about. The extreme ends may flap a little.

**8.3** Locking Diameter Test — A inner shaft assembly is looped and the junction is held in hand. One end of the inner shaft is pulled so as to reduce the diameter of the loop until the shaft assembly is felt to offer considerable resistance. The diameter of the loop is then measured and the diameters shall not be more than 20 times the inner diameter. The loop shall be as nearly circular as possible and there shall not be any obvious difference in the radius of curvature at two adjacent points.

9. Marking — All the shafts shall be marked with the designation and manufacturer's name or trademark.

9.1 ISI Certification Marking — Details available from the Indian Standards Institution.

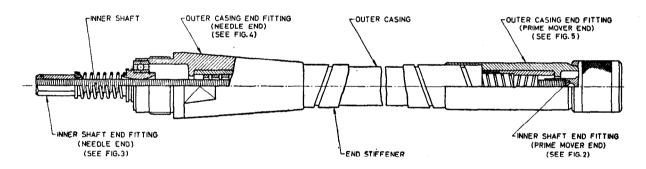
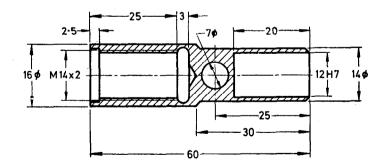
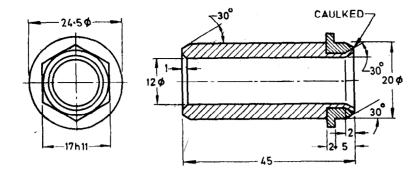


FIG. 1 ASSEMBLY OF FLEXIBLE SHAFT FOR CONCRETE VIBRATORS, TYPE A



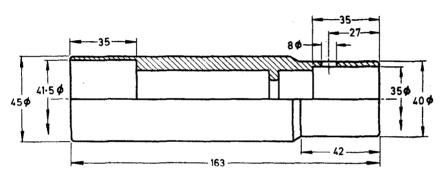
All dimensions in millimetres.

FIG. 2 DIMENSIONS FOR INNER SHAFT END FITTING (PRIME MOVER END) FOR TYPE A FLEXIBLE SHAFT ASSEMBLY



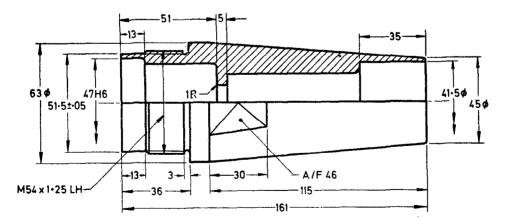
All dimensions in millimetres.





All dimensions in millimetres.

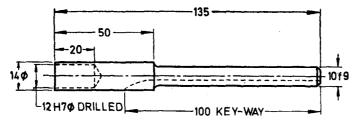
FIG. 4 DIMENSIONS FOR OUTER CASING END FITTING (PRIME MOVER END) FOR TYPE A FLEXIBLE SHAFT ASSEMBLY



All dimensions in millimetres.

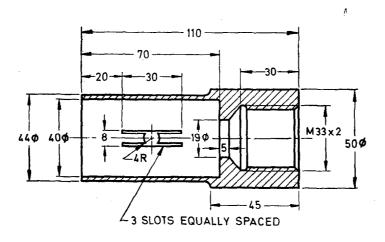
FIG. 5 DIMENSIONS FOR OUTER CASING END FITTING (NEEDLE END) FOR TYPE A FLEXIBLE SHAFT ASSEMBLY

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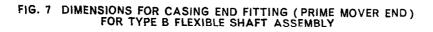


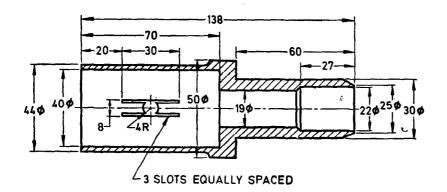
All dimensions in millimetres.





All dimensions in millimetres.





All dimensions in millimetres.

FIG. 8 DIMENSIONS FOR CASING END FITTING (NEEDLE END) FOR TYPE B FLEXIBLE SHAFT ASSEMBLY