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**BUREAU OF INDIAN STANDARDS**

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*भारतीय मानक मसौदा*

# कलाई घड़ी के लिए मूवमेंट — आयाम

(IS 9672 का *पहला पुनरीक्षण* )

*Draft Indian Standard*

# Movements for Wristwatch — Dimensions

(*First Revision* of IS 9672)

ICS 39.040.01

| | |
|---|---|
| Horology Sectional Committee, PGD 23 | Last Date for Comments: 01 May 2024 |

FOREWORD

(*Formal clauses will be added later.*)

The characteristics to differentiate the movement shapes are given in their basic form in this standard.

This standard was first published in 1980. In this revision, following changes have been made:

a) Amendment has been incorporated.
b) Movement fitting diameter in Table 1 has been modified.

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 the same as that of the specified value in this standard.

*Draft Indian Standard*

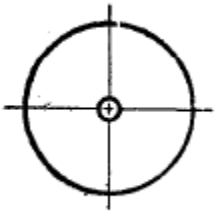
# MOVEMENTS FOR WRISTWATCH — DIMENSIONS

## 1 SCOPE

This standard lays down the nomenclature and terminology for the main dimensions of shaped and round movements of watch to facilitate the coordination between the movement and the case.

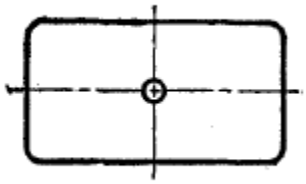
## 2 TYPES OF MOVEMENT

### 2.1 Round

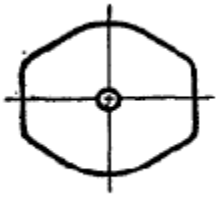


### 2.2 Shaped

**2.2.1** *Rectangular (Corners Rounded or Otherwise According to Needs)*



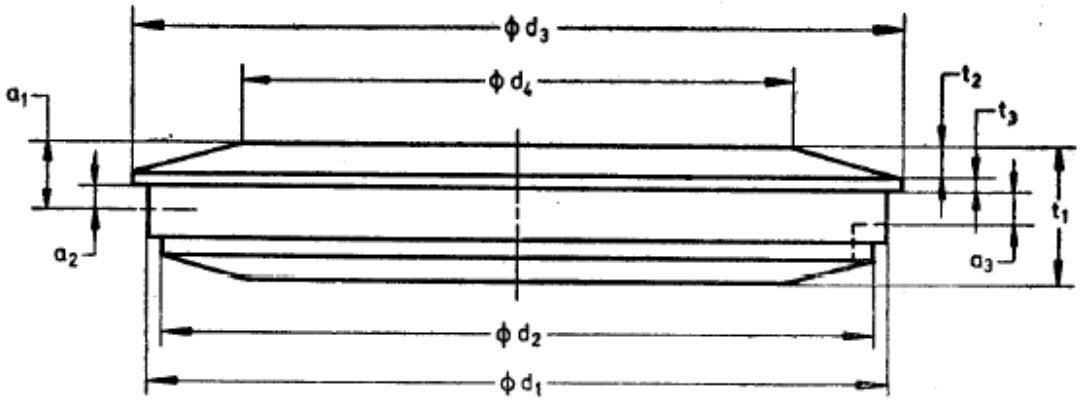
**2.2.2** *Barrel Shaped (Arched Type)*



## 3 NOMENCLATURE AND DIMENSIONS

### 3.1 Round Movement

*See* Fig. 1 and Table 1.




$d_1$ = Movement fitting diameter.
$d_2$ = Diameter across bridges.
$d_3$ = Movement diameter.
$d_4$ = Dial seating surface diameter.
$a_1$ = Winding stem hole position from dial seating surface.
$a_2$ = Winding stem hole position from supporting shoulder.
$a_3$ = Case screw seating from supporting shoulder.
$t_1$ = Movement thickness.
$t_2$ = Bevel thickness.
$t_3$ = Thickness of supporting shoulder.

FIG. 1 ROUND MOVEMENT

**Table 1 Round Movement**
(*Clause* 3.1)

All dimensions in millimetres.

| **Sl. No.** | **Movement Fitting Diameter** $d_1$ (h8/js8) | |
|---|---|---|
| **(1)** | **(2)** | **(3)** |
| i) | 12* | 25* |
| ii) | 12.5 | 25.6 |
| iii) | 13* | 26* |
| iv) | 13.5 | 27 |
| v) | 14* | 28* |

| Sl. No. | Movement Fitting Diameter $d_1$ (h8/js8) | |
|---|---|---|
| (1) | (2) | (3) |
| vi) | 14.5 | 28.6 |
| vii) | 15* | 28.9 |
| viii) | 15.3 | 29 |
| ix) | 16* | 30* |
| x) | 17* | 31 |
| xi) | 17.2 | 32* |
| xii) | 18* | 34* |
| xiii) | 19* | 36* |
| xiv) | 19.1 | 38* |
| xv) | 19.4 | 40* |
| xvi) | 20* | 42* |
| xvii) | 21* | 44 |
| xviii) | 22* | 45* |
| xix) | 23.3 | 48* |
| xx) | 24* | 50* |

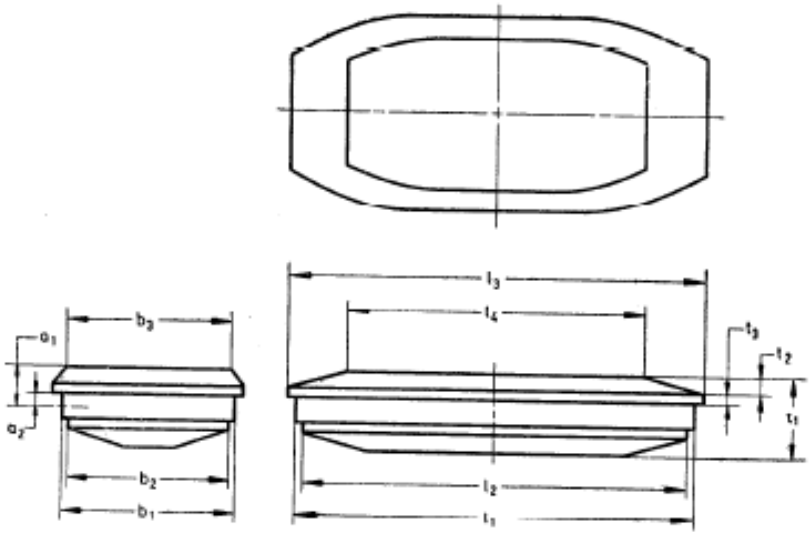
NOTES

**1** The dimensions marked with an asterisk are taken from the R40 series of preferred numbers.

**2** Other dimensions may be chosen depending upon actual requirements.

### 3.2 Shaped Movement

*See* Fig. 2 and Table 2.




$a_1$ = Winding stem hole position from dial seating surface.

$a_2$ = Winding stem hole position from supporting shoulder.

$b_1$ = Width across movement fitting.

$b_2$ = Width across bridges.
$b_3$ = Width across dial seating surface.
$t_1$ = Movement thickness.
$t_2$ = Bevel thickness.
$t_3$ = Thickness of supporting shoulder.
$l_1$ = Length across movement fitting.
$l_2$ = Length across bridges.
$l_3$ = Length of movement (Plate).
$l_4$ = Length across dial seating surface.

FIG. 2 SHAPED MOVEMENT

**Table 2 Shaped Movement**
(*Clause* 3.2)

All dimensions in millimetres.

| **Sl No.** | **Size** | $\boldsymbol{b_1}$ ± 0.020 | $\boldsymbol{l_1}$ (h8/js8) |
|---|---|---|---|
| (1) | (2) | (3) | (4) |
| i) | 12 × 15.5 | 12.1 | 15.5 |
| ii) | 13 × 15 | 13 | 15.15 |
| iii) | 13 × 19 | 12.9 | 19.2 |
| iv) | 15.5 × 16.5 | 15.3 | 16.4 |
| v) | 15.5 × 18 | 15.3 | 17.8 |
| vi) | 20 × 26.5 | 19.8 | 26.4 |

NOTES
**1** The corners of the movements have not been standardized to deep the choice construction.
**2** Other dimensions may be chosen depending upon actual requirements.