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# SMPTE STABLE DOCUMENT

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# SMPTE RECOMMENDED PRACTICE

**RP 24-1997**  
Revision of RP 24-1993

## Dimensions for 16-mm Motion-Picture Camera Spindles



Page 1 of 2 pages

### 1 Scope

This practice specifies the dimensions for 16-mm motion-picture camera spindles.

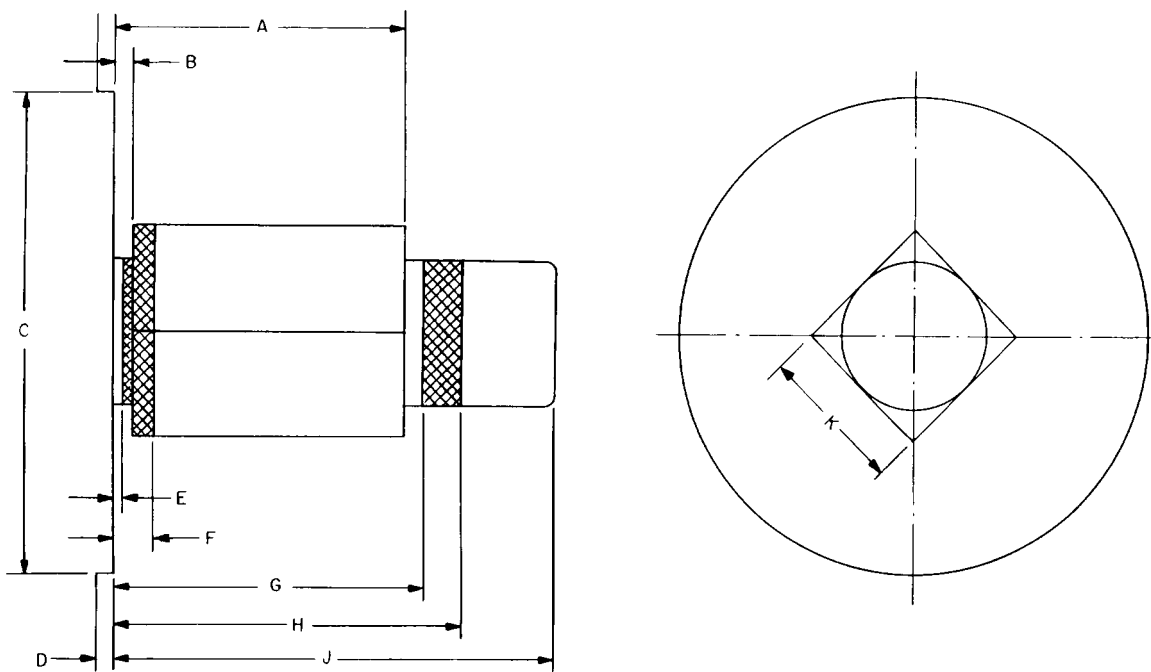
### 2 Dimensions

The dimensions shall be as given in figure 1 and table 1.

#### NOTES

1 Dimensions E, F, G, and H, illustrated by crosshatching in figure 1, represent the spindle shaft areas (with safety factor) on which the spool flanges rest. A minimum shaft diameter (in addition to a maximum) has been fixed to help prevent loose fit and resultant noise or tilt of spools or reels.

2 Dimension K represents the diameter of the round portion or length of a side of the square drive portion of the spindle shaft, excluding locking means.



**Figure 1 – 16-mm motion-picture camera spindles**

Although figure 1 illustrates a four-sided square drive portion of the spindle, a two-sided (or one side and two half sides) arrangement is also acceptable.

3 The shape or action of the device for locking spools on spindles is optional, but the device should work against the full thickness of spools in the vicinity of the spindle hole.

4 The spindles specified are compatible with spools specified in ANSI/SMPTE 174.

**Table 1 – Dimensions**

Dimensions	Inches	Millimeters
A	0.100 min	2.54 min
	0.610 max	15.49 max
B	0.010 max	0.25 max
C	0.63 min	16.0 min
	0.97 max	24.6 max
D	0.025 min	0.64 min
E <sup>1)</sup>	0.005 max	0.13 max
F <sup>1)</sup>	0.080 min	2.03 min
G <sup>1)</sup>	0.630 max	16.00 max
H <sup>1)</sup>	0.750 min	19.05 min
J	0.800 min	20.32 min
K <sup>1)</sup>	0.310 min	7.87 min
	0.315 max	8.00 max
<sup>1)</sup> See notes 1 and 2.		

## Annex A (informative)

### Bibliography

ANSI/SMPTE 174-1994, Motion-Picture Equipment (16-mm) — Camera Spools — 50- to 400-Ft Capacity