

# Metrication — Publication Policy — Metric/English System

At the Editorial Meetings on 3 May 1972 a general policy of providing metric units in *Journal* texts was approved, with alternate system units shown parenthetically for what an author has supplied.

This policy is to be followed as closely as possible to be consistent with that for SMPTE Recommended Practices and American National Standards as adopted by the SMPTE Standards Committee:

“All nongeometric specifications in SMPTE-sponsored American National Standards and SMPTE Recommended

Practices shall be in terms of SI (International System) units with conversions to the English system according to ISO practices or standards where needed. For geometric dimensioning, however, that is, those specifications of plane angle, length and area, the English or inch system shall remain as primary (with conversion to SI units) unless the basic design is certified in SI units by the proposer of the standard. When such certification is obtained, the committee may adopt SI units as primary for all specifications and characteristics.”

## standards and recommended practices

### Approved American National Standard

On 15 November 1972, the American National Standards Institute approved American National Standard *Projection Lamps, Single Contact Medium Prefocus Base-Down Type*, PH22.85-1972. The new issue is basically an editorial revision of PH22.85-1964. Several discrepancies in the earlier issue have been corrected by deleting the base dimensions and specifying American National Standard Specifications for Medium Prefocus Bases, C81.46-1970.

### American National Standards Reaffirmed

On 15 November 1972, the American National Standards Institute, taking the recommendation of the SMPTE Engineering Committees and American National Standards Committee PH22, reaffirmed without change the following standards:

PH22.2-1961, 35mm Photographic Sound Motion-Picture

Film, Usage in Cameras (published in the November 1961 *Journal*).

PH22.28-1967, Dimensions for 35mm Motion-Picture Projection Lenses and Mounts (published in the February 1968 *Journal*).

PH22.148-1967, Specifications for Film Image Area Used for Review Room Viewing of 35mm and 16mm Motion-Picture Prints Intended for Television Transmission (published in the December 1967 *Journal*).

Inasmuch as compliance with American National Standards is purely voluntary, this standard will become truly effective when broad publicity is given to its existence. ANSI and SMPTE would appreciate any personal influence to promote the use of this standard where such action is appropriate. Copies of the standard may be obtained for a nominal fee from the American National Standards Institute, 1430 Broadway, New York, NY 10018.—Alex E. Alden, Staff Engineer

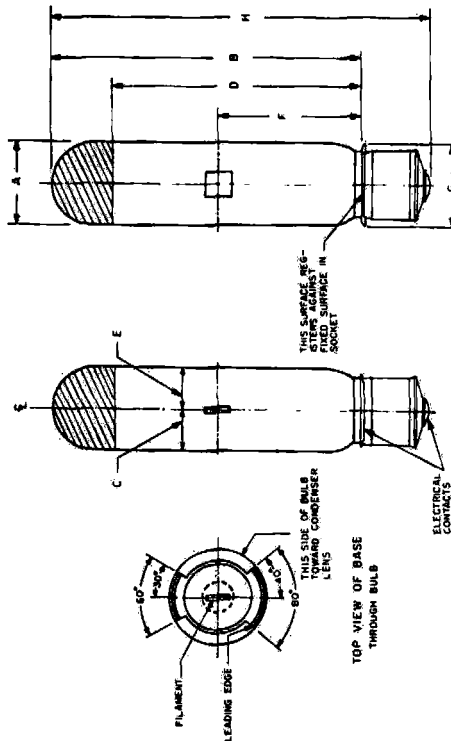
# American National Standard projection lamps, single-contact medium prefocus base-down type

Approved November 15, 1972 Secretariat: Society of Motion Picture and Television Engineers, Inc.

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## 1. Scope

- 1.1 This standard establishes the dimensions essential to interchangeability of single-contact medium prefocus base-down lamps of T-10 and T-12 bulb sizes in 16 mm and 8 mm motion-picture projectors.
- 1.2 It is not the intent to prescribe operating characteristics or details of design.



Dimensions*	T-10		T-12		T-10		T-12	
	Inches		Inches		Millimeters		Millimeters	
A	1.294	max	1.546	max	32.87	max	39.27	max
B	4.797	max	4.797	max	121.84	max	121.84	max
C	0.725	max	0.850	max	18.42	max	21.59	max
D	3.485	min	3.485	min	88.52	min	88.52	min
E	0.668	max	0.785	max	16.97	max	19.94	max
F	2.187	± 0.030	2.187	± 0.030	55.55	± 0.76	55.55	± 0.76
G	1.325	ref	1.325	ref	33.66	ref	33.66	ref
H	5.750	max	5.750	max	146.05	max	146.05	max

\*Angular dimensions are omitted.

CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken to reaffirm, revise, or withdraw this standard no later than five (5) years from the date of publication. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute, 1430 Broadway, New York, N.Y. 10018. Printed in USA.

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## 2. Dimensions

2.1 The dimensions and characteristics of the lamp base shall comply with American National Standard Specifications for Medium Prefocus Bases, C81.46-1970.

2.2 The dimensions shall be as specified in the figure and table.

2.3 The plane of the filament bisects the base flanges within ± 5°.

2.4 The light source shall be centered on base axis within 0.030 inch (0.76 mm) in both front and side views.

## 3. Operating Position

Lamps of this type are intended to be burned with the axis in an essentially vertical position with the base at the bottom.

NOTE 1: Dimensions C and E define the maximum excursion of the bulb surfaces from the base axis toward the condensing lenses (Dimension E) and the mirror (Dimension C), at the points indicated. Therefore, the lamp chimney, the mirror and the condensing lenses and their respective mounts must be so located as to ensure adequate clearance between these parts and the bulb surface.

NOTE 2: Incandescent projection lamps are usually identified by a three-letter code, as specified in American National Standard Method for the Designation of Photo Lamps, C78.370-1963 (Reaffirmed 1969).

NOTE 3: Dimension D applies to those projection lamps having opaque end coatings. However, there are exceptions, the specifications of which are supplied by the equipment manufacturer.

## Appendix

(The Appendix is not a part of this American National Standard, but is included for information purposes only.)

A1. The location of the lamp in a holder is determined by the winged flanges on the base shell. The top surface of the flanges determines the vertical location, the diameter of the flanges determines the lateral location, and the leading edge of the large angular flange section determines the rotational alignment.

A2. The terms "T-10" and "T-12" define the general shape and nominal diameter of the bulb. The letter "T" is an abbreviation for tubular; the numbers relate to the nominal diameter in eighths of an inch; e.g., T-10 is a tubular bulb 10/8 inch (1 1/4 inch) in diameter.