

Transformed

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1948

PHOTOGRAPHY

FRONT LENS BARRELS UP TO 100 mm

DIMENSIONS IMPORTANT TO THE CONNECTION OF AUXILIARIES

1st EDITION

November 1971

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

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DIMENSIONS IMPORTANT TO THE CONNECTION OF AUXILIARIES

1. SCOPE

This ISO Recommendation specifies a standard series of diameter sizes for the front part of a lens barrel (dimension B in the Figure) and a standard series of thread sizes (dimension A in the Figure) for the same front barrel. It is applicable to camera lenses and lenses for enlargers and similar equipment. It is intended that these standard sizes will simplify the production and storage of such auxiliary equipment as filters.

2. DIMENSIONS

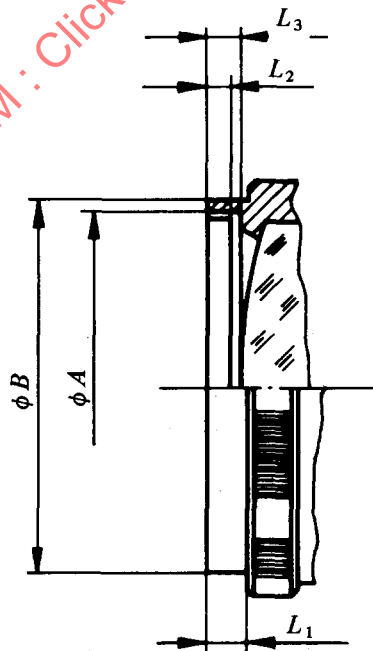


FIGURE — Typical front lens barrel

TABLE – Important dimensions

Values in millimetres

Screw thread <i>A</i> major diameter x pitch	Outside diameter of the barrel <i>B</i>			<i>L</i> ₁ min.	<i>L</i> ₂ min.	<i>L</i> ₃ min.
	basic size	Tolerance h12				
		upper deviation	lower deviation			
13.5 × 0.5	15	0	−0.18	2.0	1.8	1.2
16.5 × 0.5	18	0	−0.18	2.0	1.8	1.2
19.5 × 0.5	21	0	−0.21	2.5	2.2	1.5
(22.5 × 0.5)	(24)	0	−0.21	2.5	2.2	1.5
25.5 × 0.5	27	0	−0.21	2.5	2.2	1.5
30.5 × 0.5	32	0	−0.25	2.5	2.2	1.5
35.5 × 0.5	37	0	−0.25	2.5	2.2	1.5
40.5 × 0.5	42	0	−0.25	3.0	2.5	1.8
(43 × 0.75)	(45)	0	−0.25	3.0	2.5	1.8
46 × 0.75	48	0	−0.25	3.5	3.0	2.0
(49 × 0.75)	(51)	0	−0.30	3.5	3.0	2.0
52 × 0.75	54	0	−0.30	3.5	3.0	2.0
(55 × 0.75)	(57)	0	−0.30	3.5	3.0	2.0
58 × 0.75	60	0	−0.30	4.0	3.0	2.0
67 × 0.75	70	0	−0.30	4.5	3.5	2.5
77 × 0.75	80	0	−0.30	5.0	3.5	2.5
86 × 1.0	90	0	−0.35	6.0	4.5	3.0
95 × 1.0	100	0	−0.35	6.0	4.5	3.0

NOTES

1. The non-preferred dimensions are given in parentheses.
2. The profile of the screw thread is in accordance with ISO Recommendation R 68, *ISO General purpose screw threads – Basic profile*.
3. Dimension *B* includes the finish. The tolerance h12 is in accordance with ISO Recommendation R 286, *ISO System of limits and fits – Part 1: General tolerances and deviations*.

BRIEF HISTORY

The ISO Recommendation R 1948, *Photography – Front lens barrels up to 100 mm – Dimensions important to the connection of auxiliaries*, was drawn up by Technical Committee ISO/TC 42, *Photography*, the Secretariat of which is held by the American National Standards Institute (ANSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1948, which was circulated to all the ISO Member Bodies for enquiry in November 1969.

The Draft has been approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Greece	Thailand
Austria	Israel	U.A.R.
Belgium	Japan	United Kingdom
Canada	South Africa, Rep. of	U.S.A.
Czechoslovakia	Spain	U.S.S.R.
Germany	Sweden	

The following Member Bodies opposed the approval of the Draft :

France
Switzerland

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.