ASME B18.15-2025
[Revision of ASME B18.15-2015 (R2021)]

Forged Eyebolts

AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

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The American Society of Mechanical Engineers
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FOREWORD

Forged threaded eyebolts used in lifting applications come within the scope of ANSI Standards Committee B18 on Dimensional Standardization of Bolts, Nuts, Rivets, Screws, and Similar Fasteners, which was organized in March 1922 under the procedures of the American Engineering Standards Committee [later renamed the American National Standards Institute, Inc. (ANSI)], with the Society of Automotive Engineers and The American Society of Mechanical Engineers (ASME) as joint sponsors.

Subcommittee No. 15 was appointed in March 1960 and asked to give initial consideration to the establishment of a standard on forged eyebolts, including rated capacity. At its first meeting held on April 22, 1960, the committee decided to ask all the leading suppliers to furnish dimensions, tolerances, and rated capacity for their standard eyebolts. These data were collected, consolidated, and studied in detail. It was soon apparent that it would be impossible to develop an ANSI standard that would agree with even a small percentage of the standard products then being produced. The first proposal, therefore, attempted to come as close as possible to an average value and still maintain an orderly progression from the smaller to the larger sizes.

ANSI Standards Committee B18 approved the proposal by letter ballot taken on September 24, 1964, and following approval by the sponsors, it was submitted on July 28, 1965, to ANSI for approval. Because of a conflict with USA Standard Specification for Carbon Steel Eyebolts, G38.2-1964, final approval was withheld.

Subsequent to the withdrawal of G38.2-1964, ANSI approved the B18 proposal on February 18, 1969. This revision was approved by letter ballot of ASME Committee B18 on August 27, 1982, and was subsequently approved by ASME (the sponsor) and submitted to ANSI for designation as an American National Standard. ANSI approval of this Standard was granted on July 17, 1985.

In 2013, the ASME B18 Committee received a request to update this Standard to include stainless steel forged eyebolts for use in marine applications. This work was assigned to Subcommittee 31, Studs, Lifting Eyes, and Bent Bolts, as Subcommittee 15 had been disbanded in May 2009. Previously, ASME B18.15M was withdrawn after it was confirmed that the Standard was not being used as a standard for a hard-metric fastener. The most commonly used international metric standard for eyebolts is DIN 580. It was also discovered in the investigation that when U.S. domestic producers of eyebolts receive orders for metric eyebolts, it is a common practice to use the closest inch eyebolt blank and just apply the closest coarse metric thread. Because of this common practice, an appendix was added to the 2015 edition of ASME B18.15 to provide strength information and thread-to-eye-size guidance to facilitate consistency when this approach is employed by an eyebolt producer. This appendix is for information only and does not constitute mandatory requirement.

ASME B18.15-2015 was approved by the American National Standards Institute on June 1, 2015.

In 2024, Subcommittee 31 received a request to correct the rigger's capacity tables, Tables 3 and 4 ($^{9}\!/_{16}$ in. having been omitted and $1^{3}\!/_{8}$ in. having been mistakenly included), and to align them with the dimensional tables, Tables 1 and 2. This edition contains those corrections in the redesignated rigger's capacity tables, Tables 7.1-1 and 7.1-2, and redesignates the dimensional tables as Tables 1-1 and 1-2. In addition, the subcommittee has corrected the rigger's capacity for $^{1}\!/_{4}$-in. eyebolts to 420 lb (in accordance with the other sizes' capacities, which equal 20% of the breaking strengths required by ASTM A489).

ASME B18.15-2025 was approved by the American National Standards Institute on December 1, 2025.

ASME B18 COMMITTEE
Standardization of Bolts, Nuts, Rivets, Screws, Washers, and Similar Fasteners

(The following is the roster of the committee at the time of approval of this Standard.)

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Revisions and Errata. The committee processes revisions to this Standard on a periodic basis to incorporate changes that appear necessary or desirable as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published in the next edition of the Standard.

In addition, the committee may post errata on the committee web page. Errata become effective on the date posted. Users can register on the committee web page to receive email notifications of posted errata.

This Standard is always open for comment, and the committee welcomes proposals for revisions. Such proposals should be as specific as possible, citing the paragraph number, the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent background information and supporting documentation.

Cases

(a) The most common applications for cases are

(1) to permit early implementation of a revision based on an urgent need

(2) to provide alternative requirements

(3) to allow users to gain experience with alternative or potential additional requirements prior to incorporation directly into the Standard

(4) to permit the use of a new material or process

(b) Users are cautioned that not all jurisdictions or owners automatically accept cases. Cases are not to be considered as approving, recommending, certifying, or endorsing any proprietary or specific design, or as limiting in any way the freedom of manufacturers, constructors, or owners to choose any method of design or any form of construction that conforms to the Standard.

(c) A proposed case shall be written as a question and reply in the same format as existing cases. The proposal shall also include the following information:

(1) a statement of need and background information

(2) the urgency of the case (e.g., the case concerns a project that is underway or imminent)

(3) the Standard and the paragraph, figure, or table number

(4) the editions of the Standard to which the proposed case applies

(d) A case is effective for use when the public review process has been completed and it is approved by the cognizant supervisory board. Approved cases are posted on the committee web page.

Interpretations. Upon request, the committee will issue an interpretation of any requirement of this Standard. An interpretation can be issued only in response to a request submitted through the online Inquiry Submittal Form at https://go.asme.org/InterpretationRequest. Upon submitting the form, the inquirer will receive an automatic email confirming receipt.

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Interpretations are published in the ASME Interpretations Database at https://go.asme.org/Interpretations as they are issued.

Committee Meetings. The B18 Standards Committee regularly holds meetings that are open to the public. Persons wishing to attend any meeting should contact the secretary of the committee. Information on future committee meetings can be found on the committee web page at https://go.asme.org/B18committee.

ASME B18.15-2025
SUMMARY OF CHANGES

Following approval by the ASME B18 Standards Committee and ASME, and after public review, ASME B18.15-2025 was approved by the American National Standards Institute on December 1, 2025.

The figures and tables in ASME B18.15-2025 have been redesignated based on their parent paragraph and related cross-references updated accordingly. In addition, ASME B18.15-2025 includes the following changes identified by a margin note, **(25)**.

Page	*Location*	*Change*
1	3	Updated
2	7	Paragraphs 7.1 and 7.3 revised
2	8	Paragraphs 8.1.2 and 8.2 revised
2	9	Example revised
3	10	Paragraphs 10.3 and 10.4 revised
7	Table 7.1-1	In former Table 3
		(1) nominal sizes revised
		(2) capacity of nominal size ¼ at 0 deg revised
		(3) Legend added
8	Table 7.1-2	In former Table 4
		(1) nominal sizes revised
		(2) capacity of nominal size ¼ at 0 deg revised
		(3) Legend added
12	B-1	Revised
15	D-3.1	Revised
16	Table D-4-1	Legend added

FORGED EYEBOLTS

1 SCOPE

This Standard is limited to dimensions and capacities for carbon steel and corrosion-resistant stainless steel, forged threaded eyebolts intended primarily for lifting applications. For carbon steel construction, the sizes are limited to ¼ in. through 2½ in., and for corrosion-resistant stainless steel construction, the sizes are limited to ¼ in. through 1½ in. This Standard covers the following types and styles:

(a) Type 1, plain pattern (straight shank) (see Table 1-1)
  (1) Style A, long length
  (2) Style B, short length
(b) Type 2, shoulder pattern (see Table 1-2)
  (1) Style A, long length
  (2) Style B, short length

Nonmandatory Appendices A and B contain descriptive and cautionary information pertinent to forged eyebolts. Nonmandatory Appendix C contains information on the application of eyebolts. Nonmandatory Appendix D provides information on eyebolts with metric threads M6 through M64 and corresponding material and performance information.

The inclusion of dimensional data in this Standard is not intended to imply that all products described are stock production items. Consumers should consult with suppliers concerning availability of products.

2 COMPARISON WITH ISO DOCUMENTS

There is no comparable ISO standard for inch eyebolts. ISO 3266, Forged steel eyebolts grade 4 for general lifting purposes, includes information for metric dimensioned eyebolts.

3 REFERENCED STANDARDS (25)

ASME B1.1. Unified Inch Screw Threads (UN, UNR, and UNJ Thread Forms). The American Society of Mechanical Engineers.
ASME B1.3. Screw Thread Gaging Systems for Acceptability — Inch and Metric Screw Threads (UN, UNR, UNJ, M, and MJ). The American Society of Mechanical Engineers.
ASME B1.13M. Metric Screw Threads: M. The American Society of Mechanical Engineers.
ASME B1.16M. Gages and Gaging for Metric M Screw Threads. The American Society of Mechanical Engineers.
ASME B18.12. Glossary of Terms for Mechanical Fasteners. The American Society of Mechanical Engineers.
ASME B18.18. Quality Assurance for Fasteners. The American Society of Mechanical Engineers.
ASME B30.26. Rigging Hardware. The American Society of Mechanical Engineers.
ASTM A380/A380M. Cleaning, Descaling, Pickling, and Passivation of Stainless Steel Parts, Equipment, and Systems. ASTM International.
ASTM A473. Stainless Steel Forgings. ASTM International.
ASTM A489. Carbon Steel Eyebolts. ASTM International.
ASTM F541. Alloy Steel Eyebolts. ASTM International.
ASTM F606/F606M. Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets. ASTM International.
ASTM F788/F788M. Surface Discontinuities of Bolts, Screws, Studs, and Rivets, Inch and Metric Series. ASTM International.
ASTM F1941/F1941M. Specification for Electrodeposited Coatings on Mechanical Fasteners, Inch and Metric. ASTM International.
DIN 580. Lifting Eye Bolts. Deutsches Institut für Normung e. V.
ISO 3266. Forged steel eyebolts grade 4 for general lifting purposes. International Organization for Standardization.