



Standard Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications¹

This standard is issued under the fixed designation F1476; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification provides the performance characteristics and qualification tests required for gasketed mechanical couplings including grooved-type mechanical couplings for grooved end pipe, mechanical restraint couplings for plain end pipe and mechanical compression couplings for plain end pipe. These couplings are for use at temperatures within the recommended temperature range of their respective gaskets. Consult manufacturer for details.

1.2 The values stated in metric units (SI) are to be regarded as the standard. The values given in parentheses (inch/pound) are provided for information purposes.

1.3 Measuring and test equipment (M&TE) used in the performance of the tests described herein shall be calibrated using equipment which is traceable to the National Institute of Standards and Technology (NIST) or calibrated in accordance with the requirements detailed in BS 5781 Part 1 against standards traceable to National Standards.

1.4 As this is not a dimensional standard, nor does it contain component dimensions, the intermixing of sub-components such as gaskets and housings between manufacturers is not recommended and constitutes non-conformance with this standard.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.11 on Machinery and Piping Systems.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

A47/A47M Specification for Ferritic Malleable Iron Castings

A53/A53M Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

A135 Specification for Electric-Resistance-Welded Steel Pipe

A153/A153M Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

A183 Specification for Carbon Steel Track Bolts and Nuts

A193/A193M Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications

A194/A194M Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both

A325 Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength

A395/A395M Specification for Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures

A536 Specification for Ductile Iron Castings

A563 Specification for Carbon and Alloy Steel Nuts

A574 Specification for Alloy Steel Socket-Head Cap Screws

A743/A743M Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

B26/B26M Specification for Aluminum-Alloy Sand Castings

B88 Specification for Seamless Copper Water Tube

B580 Specification for Anodic Oxide Coatings on Aluminum

B633 Specification for Electrodeposited Coatings of Zinc on Iron and Steel

D2000 Classification System for Rubber Products in Automotive Applications

F837 Specification for Stainless Steel Socket Head Cap Screws

2.2 ANSI, ANSI/ASQC, or ANSI/AWWA Standards:³

B 36.10 —Welded and Seamless Wrought Steel Pipe

B 36.19 —Stainless Steel Pipe

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.