



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

This standard is issued under the fixed designation F1548; 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 defines classification, materials, test requirements, inspection certification, marking and packaging of fittings for use with gasketed mechanical couplings complying to Specification **F1476**.

1.2 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

NOTE 1—See **Table 1** for equivalency listing of applicable, equivalent specifications.

- [A47/A47M Specification for Ferritic Malleable Iron Castings](#)
- [A48/A48M Specification for Gray Iron Castings](#)
- [A53/A53M Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless](#)
- [A153/A153M Specification for Zinc Coating \(Hot-Dip\) on Iron and Steel Hardware](#)
- [A216/A216M Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service](#)
- [A234/A234M Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service](#)
- [A312/A312M Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes](#)
- [A395/A395M Specification for Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures](#)
- [A403/A403M Specification for Wrought Austenitic Stainless Steel Piping Fittings](#)
- [A536 Specification for Ductile Iron Castings](#)
- [A743/A743M Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application](#)
- [B26/B26M Specification for Aluminum-Alloy Sand Castings](#)
- [B75 Specification for Seamless Copper Tube](#)
- [B210 Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes](#)
- [B369 Specification for Copper-Nickel Alloy Castings](#)
- [B580 Specification for Anodic Oxide Coatings on Aluminum](#)
- [B584 Specification for Copper Alloy Sand Castings for General Applications](#)
- [B633 Specification for Electrodeposited Coatings of Zinc on Iron and Steel](#)
- [F1476 Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications](#)

2.2 ANSI Standards:³

- [B36.10 Welded and Seamless Wrought Steel Pipe](#)
- [B36.19 Stainless Steel Pipe](#)
- [Z540.1 Calibration Laboratories in Measuring Test Equipment](#)

¹ This practice 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.

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



TABLE 1 Specification Equivalency Table

Spec. Ref. Number	U.S. Designation ASTM	British Standard	ISO Standard
1	A47/A47M	6681	5922
2	A48/A48M	1452	—
3	A53/A53M	3601	—
4	A153/A153M	729	1459, 1460, 1461
5	A216/A216M	3100	—
6	A234/A234M	1640 Pt. 1	—
7	A312/A312M	3605	—
8	A395/A395M	—	—
9	A403/A403M	1640 Pt. 2	—
10	A536	4772	2531, 4179, 8179
11	A743/A743M	3100	—
12	B26/B26M	1490	3522, 7722
13	B75	2871	—
14	B210	1471	209
15	B369	3071	—
16	B580	—	—
17	B584	1400	—
18	B633	1706	2081
ANSI			
19	B36.10	3600	4200
20	B36.19	3600	4200
21	Z540.1	5781	—
ANSI/AWWA			
22	C151/A21.51	4772	2531, 4179, 8179
23	C606–87	—	—

2.3 ANSI/AWWA Standards:³

C151/A21.51 Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water and Other Liquids
C606–87 Grooved and Shouldered Joints

2.4 British Standards:⁴

BS 729 Specification for Hot Dip Galvanized Coatings on Iron and Steel Articles
BS 1400 Specification for Copper Alloy Ingots and Copper Alloy and High Conductivity Copper Castings
BS 1452 Specification for Flake Graphite Cast Iron
BS 1471 Specification for Wrought Aluminum and Aluminum Alloys for General Engineering Purposes—Drawn Tube
BS 1490 Specification for Aluminum and Aluminum Alloy Ingots and Castings for General Engineering Purposes
BS 1640 Pt. 1 Wrought Carbon and Ferritic Alloy Steel Fittings
BS 1640 Pt. 2 Wrought and Cast Austenitic Chromium—Nickel Steel Fittings
BS 1706 Method for Specifying Electroplated Coatings of Zinc and Cadmium on Iron and Steel
BS 2871 Specification for Copper and Copper Alloys—Tubes
BS 3071 Specification for Nickel—Copper Alloy Castings
BS 3100 Specification for Steel Castings for General Engineering Purposes
BS 3600 Specification for Dimensions of Steel Pipe for the Petroleum Industry
BS 3601 Specification for Carbon Steel Pipes and Tubes with Specified Room Temperature Properties for Pressure Purposes
BS 3605 Austenitic Stainless Steel Pipes and Tubes for Pressure Purposes
BS 4772 Specification for Ductile Iron Pipes and Fittings
BS 5781 Measurement and Calibration System
BS 6681 Specification for Malleable Cast Iron

2.5 International Standards Organization: ISO Standards:⁵

209 Composition of Wrought Products of Aluminum and Aluminum Alloys . . . Chemical Composition (Percent)
1459 Metallic Coatings—Protection Against Corrosion by Hot Dip Galvanizing—Guiding Principles
1460 Metallic Coatings—Hot Dip Galvanized Coatings on Ferrous Materials—Determination of the Mass Per Unit Area—Gravimetric Method

⁴ Available from British Standards Institution (BSI), 389 Chiswick High Rd., London W4 4AL, U.K., <http://www.bsi-global.com>/<http://www.bsigroup.com>.

⁵ Available from International Organization for Standardization (ISO), 1 rue de Varembe, Case postale 56, CH-1211, Geneva 20, Switzerland, <http://www.iso.ch>. ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, <http://www.iso.org>.