

IAPMO PS 53-2011^{e1}

Grooved Mechanical Pipe Couplings and Grooved-End Fittings



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1 Scope and Purpose

- 1.1** This Standard covers grooved mechanical pipe couplings and grooved-end fittings and gaskets intended for use with copper, ductile iron, cast iron, PVC, steel, and stainless steel pipe and specifies requirements for materials, physical characteristics, performance tests, and markings.
- 1.2** The purpose of this Standard is to enhance health and safety by:
- (a) specifying acceptable criteria for grooved mechanical pipe couplings and grooved-end fittings;
 - (b) serving as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors, and users; and
 - (c) promoting understanding regarding materials and manufacturing of grooved mechanical pipe couplings and grooved-end fittings.
- 1.3** The requirements of this Standard are not intended to prevent the use of alternative materials or methods of construction provided such alternatives meet the intent of this Standard.
- 1.4** Amendments to this Standard will be made after processing according to the standards writing procedures of IAPMO.

2 Reference Publications

This Standard refers to the following publications, and where such reference is made, it shall be to the current edition of those publications, including all amendments published thereto.

ASME B1.20.1	Pipe Threads, General Purpose (Inch)
ASTM A47	Standard Specification for Ferritic Malleable Iron Castings
ASTM A153	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A183	Standard Specification for Carbon Steel Track Bolts and Nuts
ASTM A193	Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High Temperature or High Pressure Service and Other Special Purpose Applications
ASTM A536	Standard Specification for Ductile Iron Castings
ASTM B88	Standard Specification for Seamless Water Copper Tube
ASTM B633	Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel