

MPTA-C9-2014

STANDARDS AND REGULATIONS
AFFECTING COUPLINGS



INFORMATIONAL BULLETIN

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Abstract

This publication provides examples of standards and regulations affecting both elastomeric and metallic couplings.

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Foreword

This Foreword is provided for informational purposes only and is not to be construed to be part of any technical specification.

This standard is formatted in consistency with other MPTA documents.

Suggestions for the improvement of or comments on this publication are welcome. They should be mailed to Mechanical Power Transmission Association, 5672 Strand Ct., Suite 2, Naples, FL 34110 on your company letterhead.

Scope

This informational bulletin is intended to educate the reader on the many organizations that create and use standards and regulations related to both elastomeric and metallic couplings. It also provides description as to the nature of the standards and regulations that these organizations author and maintain and provides links to each individual organization's websites.

Table 1 – Standards and Regulations Affecting Couplings

Item	Standard /Organization	Abbreviation	Description/ Website Link
1	American Bureau of Shipping	ABS	Maritime coupling specification American Bureau of Shipping - ABS
2	American Gear Manufacturers Association	AGMA	Gear shape, bores, keyways American Gear Manufacturers Association - AGMA
3	American National Standards Institute	ANSI	Hardware, keyways, shafting design, fits, splines, balance, etc. American National Standards Institute - ANSI
4	American Petroleum Institute	API	API 610 Centrifugal pumps (and couplings) for general refinery service. API 671 Special Purpose Refinery couplings (Turbo compressor) API 673 Centrifugal Fans for Petroleum, Chemical and Gas Industry Services American Petroleum Institute - API IHS Standards Store
5	American Railway Engineering and Maintenance -of-way Association	AREMA	Railway standards; couplings of interest include shrouded bolt gear, grid and disc couplings. American Railway Engineering and Maintenance-of-Way Association - AREMA
6	American Society for Testing and Materials	ASTM	Materials, metallurgy, mechanicals, adhesion, etc. ASTM International
7	Canadian Standards Association	CSA	Coupling guards CSA for Occupational Health and Safety - OHS
8	Det Norske Veritas	DNV	Maritime coupling specification Services for Managing Risk
9	Deutsche Institute for Normung	DIN	Threads, Fasteners, splines, etc. Deutsches Institut für Normung - DIN
10	Factory Mutual Insurance Company	FM Approval FM Global	Fire pump coupling specification FM Global
11	International Organization for Standards	ISO	Balance, keys, bores selection, tolerances, etc. International Organization for Standardization - ISO

(Table 1 – Continued)

Item	Standard /Organization	Abbreviation	Description/ Website Link
13	International Traffic in Arms Regulation	ITAR	Government regulation of commerce of defense related technologies. Military coupling applications, composites, etc. US State Department - Policy - Directorate of Defense Trade Controls
14	Lloyd's Register	LR	Maritime coupling specification Lloyd's Register
15	Mine Safety and Health Administration	MSHA	Coupling types, underground standards, flammability, conductivity. US counterpart to ATEX. Mine Safety and Health Administration - MSHA
16	National Lubricating Grease Institute	NLGI	Defines grease viscosity between 000 and 6. From cooking oil to cheddar cheese consistency. Nation Lubricating Grease Institute - NLGI
17	Occupational Safety and Health Administration	OSHA	Coupling guards Occupational Safety and Health Administration
18	Society of Automotive Engineers	SAE	Spline bores in couplings Society of Automotive Engineers - SAE
19	American Society of Mechanical Engineers	ASME	Coupling guards, materials, etc. American Society of Mechanical Engineers - ASME
20	American Association of State Highway and Transportation Officials	AASHTOE	Standards for construction of highways, air, rail, water and public transportation AASHTO
21	Process Industry Practices	PIP	General practices for process industry Process Industry Practices

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