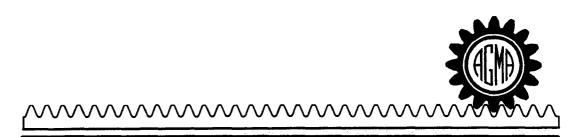
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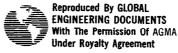
AMERICAN GEAR MANUFACTURERS ASSOCIATION

Load Classification and Service Factors for Flexible Couplings



AGMA INFORMATION SHEET

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Approved September 18, 1996

ABSTRACT

This information sheet provides suggested load classifications and related service factors that are most frequently used for various flexible coupling applications. Typical applications using smooth prime movers are listed. Special considerations which may involve unusual or severe loading are also discussed.

Published by

American Gear Manufacturers Association 1500 King Street, Suite 201, Alexandria, Virginia 22314

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Printed in the United States of America

ISBN: 1-55589-680-4

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Foreword

[The foreword is provided for informational purposes only and should not be construed as a part of AGMA 922–A96, *Load Classification and Service Factors for Flexible Couplings.*]

This document was developed originally as standard AGMA 514.01 by the Flexible Coupling Product Group of AGMA to show some of the applications for flexible couplings and to serve as a guide to the character of the loads found in these applications. It made no attempt to include all possible applications for flexible couplings, but a sufficient number and variety were covered to serve as a guide for proper application.

The load classification and service factors shown in this document vary for some types of equipment from identical or similar equipment as shown in other AGMA Standards. Such variations are not errors or discrepancies, but have been determined based on design, construction and limitations of the flexible coupling.

The first draft of AGMA 514.01 was prepared by the Flexible Coupling Technical Committee in January 1968. It was approved by Flexible Coupling Product Group 7 on October 20, 1968. AGMA 514.01 became an official AGMA standard on May 27, 1969. AGMA 514.02 was a revision of AGMA 514.01. The major change was the addition of Service Factors to table 2. AGMA 514.02 was approved by the AGMA Membership on October 22, 1971.

The Flexible Couplings Committee voted to change the standard to an information sheet. The only changes made were editorial, necessary to reflect an information sheet.

Suggestions for the improvement of this information sheet will be welcome. They should be sent to the American Gear Manufacturers Association, 1500 King Street, Suite 201, Alexandria, Virginia, 22314.

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AMERICAN GEAR MANUFACTURERS ASSOCIATION

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Load Classification and Service Factors for Flexible Couplings

1 Scope

The purpose of this information sheet is to list and classify the character of the load, and the suggested service factor for various applications, so that proper flexible coupling selection can be made for a given service.

1.1 Applicability

This information sheet is applicable to standard couplings as defined in AGMA 510.03.

1.2 Exceptions

It is recognized that there are couplings for which the service factor values shown in this information sheet are not necessarily applicable. For specific application information, refer to the manufacturer's catalog or recommendations. AGMA acknowledges the right of any manufacturer to use different selection methods, or service factors, or both for their specific product.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the information sheet. At the time of publication, the editions were valid. All publications are subject to revision, and the users of this information sheet are encouraged to investigate the possibility of applying the most recent editions of the publications listed.

AGMA 510.03, Nomenclature for Flexible Couplings (1984).

3 Responsibility

3.1 Applications

The manufacturer's published warranty applies to the flexible couplings described in this publication. The following conditions are typical and are beyond the manufacturer's responsibility.

- The flexible coupling is protected as prescribed by the manufacturer, in either inside or outside storage, between the interval of its receipt by the buyer and actual installation;

- The flexible coupling is properly installed and maintained in accordance with the manufacturer's instructions;

- The system of connected rotating parts is compatible, free from critical speed, torsional and other type vibration within the specified operating speed range, no matter how induced;

- The imposed torsional load, speed and misalignment are within the capacity limits for which the units were sold, or as specified in the purchase contract.

3.2 Systems analysis

Responsibility for system analysis in compliance with these requirements rests with the purchaser of the flexible coupling.

3.3 Exceptions

Exceptions to any of the foregoing provisions are a matter of specific contractual agreements.

NOTE: Service factors and load classifications for any equipment used to **move or convey people** is beyond the intent of this information sheet. Consult the manufacturer for recommendations.

4 Load classification

The broad categories of load classification are shown in table 1. They are classified in the three commonly recognized load classes: Uniform (U), Moderate Shock (M), and Heavy Shock (H). These load classifications are based on normal operation of the drive system. Load classification for various applications are given in table 2.