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Petroleum, petrochemical and natural gas industries — Flexible couplings for mechanical power transmission — General-purpose applications

Industries du pétrole, de la pétrochimie et du gaz naturel — Accouplements flexibles pour transmission de puissance mécanique — Applications d'usage général

Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 14691 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 6, *Processing equipment and systems*.

This second edition cancels and replaces the first edition (ISO 14691:1999), which has been technically revised.

Introduction

Users of this International Standard should be aware that further or differing requirements may be needed for individual applications. This International Standard is not intended to inhibit a vendor from offering, or the purchaser from accepting, alternative equipment or engineering solutions for the individual application. This may be particularly appropriate where there is innovative or developing technology. Where an alternative is offered, the vendor should identify any variations from this International Standard and provide details.

For the following applications, the use of ISO 10441 is recommended:

— large or high-speed machines that may be required to operate continuously for extended periods, are often unspared and are critical to the continued operation of the installation (special-purpose applications);

— machines in which the first lateral critical speed is less than the maximum required operating speed (flexible-shaft machines);

— machines in which the rotor dynamics are particularly sensitive to coupling unbalance.

This International Standard requires the purchaser to specify certain details and features. A bullet (●) at the beginning of a subclause or paragraph indicates that either a decision is required or that further information is to be provided by the purchaser. This information should be indicated on the datasheet(s), typical examples of which are included as Annex E, otherwise it should be stated in the quotation request or in the order.

The coupling vendor is not normally required to supply the coupling guard or guards. However, for completeness and for the information of the user of this International Standard, Annex D, which provides requirements for guards, has been added.