

INTERNATIONAL
STANDARD

ISO
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**Technical product documentation —
Springs —**

Part 2:

Presentation of data for cylindrical helical
compression springs

Documentation technique de produits — Ressorts —

*Partie 2: Présentation des données techniques des ressorts cylindriques
de compression*



Reference number
ISO 2162-2:1993(E)

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.

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.

International Standard ISO 2162-2 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Sub-Committee SC 6, *Mechanical engineering documentation*.

ISO 2162 consists of the following parts under the general title *Technical product documentation — Springs*:

- *Part 1: Simplified representation*
- *Part 2: Presentation of data for cylindrical helical compression springs*
- *Part 3: Vocabulary*

Annexes A and B of this part of ISO 2162 are for information only.

Technical product documentation — Springs —

Part 2:

Presentation of data for cylindrical helical compression springs

1 Scope

This part of ISO 2162 establishes a uniform system for the presentation of technical data and for the representation of cylindrical helical compression springs to be used in technical product documentation intended for e.g. tender and/or order drawings.

2 Normative references

The following standards contain provisions which through reference in this text, constitute provisions of this part of ISO 2162. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this part of ISO 2162 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2162-1:1993, *Technical product documentation — Springs — Part 1: Simplified representation*.

ISO 2162-3:1993, *Technical product documentation — Springs — Part 3: Vocabulary*.

3 Definitions

For the purposes of this part of ISO 2162, the definitions given in ISO 2162-3 apply.

4 Letter symbols

See table 1.

5 Presentation of data

5.1 General

The data presented shall comprise

- a) graphical representation, information on action and on the type of finish to ends; and
- b) design and manufacturing data.

5.2 Representation, data on the spring action and indication of the type of spring ends

Graphical representation of the spring shall be in accordance with ISO 2162-1.

Data on the spring action shall be indicated preferably by means of a load deflection chart (or graph) showing the predominant requirements necessary for the functioning of the spring together with any additional requirements.

The type of spring ends shall be indicated in accordance with table 2.

5.3 Technical data list

The technical data list presented shall include all information necessary for the manufacture of the springs. Possibilities for the adaptation of a certain spring to given requirements during manufacture shall be specified.