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Basic principles for graphical symbols for use on equipment —

Part 2: Form and use of arrows

*Principes de base pour les symboles graphiques utilisables sur le matériel —
Partie 2: Forme et utilisation des flèches*

Reference number
ISO 80416-2:2001(E)



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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 3.

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 ISO 80416-2 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

In order to collect all requirements concerning basic principles for graphical symbols for use on equipment, ISO/TC 145, *Graphical symbols*, and IEC/TC 3, *Documentation and graphical symbols*, agreed to prepare jointly all parts of this International Standard and to publish them under the general number 80416. For each of the individual parts of this series, only one of the two organizations is responsible. Meanwhile, the technical committees have agreed that no modification will be made to International Standard 80416 except by mutual agreement.

International Standard ISO 80416-2 was accordingly prepared jointly by Technical Committee ISO/TC 145, *Graphical symbols*, and Technical Committee IEC/TC 3, *Documentation and graphical symbols*. The draft was circulated for voting to the national bodies of both ISO and IEC.

This first edition of ISO 80416-2 cancels and replaces ISO 4196. It provides guidelines which are equally applicable to graphical symbols prepared within ISO and IEC.

International Standard 80416 consists of the following parts, under the general title *Basic principles for graphical symbols for use on equipment*:

- *Part 1: Creation of symbol originals* (published by IEC)
- *Part 2: Form and use of arrows* (published by ISO)
- *Part 3: Guidelines for the application of graphical symbols* (published by IEC)

Annex A forms a normative part of ISO 80416-2.

This is a preview of "ISO 80416-2:2001". [Click here to purchase the full version from the ANSI store.](#)

Introduction

A graphical symbol is a visually perceptible figure used to transmit information independently of language. Graphical symbols are used on equipment for a wide range of purposes. For such symbols, consistency in the design of families of symbols used in one location or on similar equipment is an important issue, as is legibility when these symbols are reduced to small dimensions. Thus, there is a need to standardize the principles for creating graphical symbols for use on equipment in order to ensure visual clarity, to maintain consistency and thereby to improve recognition.

This International Standard addresses the basic rules used to create graphical symbols for use on equipment, including line widths, form and use of arrows, negation elements, and use of the basic pattern which serves as a guideline for drawing equipment symbols. These design principles should be used for all graphical symbols for use on equipment, the standardized graphical symbols of which are found in ISO 7000 and IEC 60417.

ISO 80416-2 has been produced to promote the use of a reduced number of arrow forms as symbol elements or graphical symbols.