INTERNATIONAL STANDARD

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Liquid pumps and installation — General terms — Definitions, quantities, letter symbols and units

Pompes pour liquides et installations — Termes généraux — Définitions, grandeurs, symboles littéraux et unités

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Contents

Page

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 17769 was prepared by Technical Committee ISO/TC 115, *Pumps*.

Liquid pumps and installation — General terms — Definitions, quantities, letter symbols and units

1 Scope

This International Standard deals with terms, letter symbols and units related to the flow of liquids through rotodynamic and positive displacement liquid pumps and associated installations. It serves as a means of clarifying communications between the installation designer, manufacturer, operator and plant constructor.

This International Standard identifies the units in common usage but, all other legal units can be used.

This International Standard deals solely with conditions described by positive values for the rate of flow and pump head. The definitions are set out showing first the most common form of a quantity followed by some frequently used variants. Other variants can be constructed and appropriate symbols evolved using the symbols and subscripts shown. Prefixes such as “working” and “design” can also be applied to the defined quantities.

This International Standard is not concerned with terms, letter symbols and units referring to the component parts of rotodynamic and positive-displacement pumps and installations.

Whenever possible, symbols and definitions conform to those used in ISO 31-0 and ISO 1000, with further explanations where these are deemed appropriate. Some deviations have been incorporated for reasons of consistency.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 31-0, *Quantities and units — Part 0: General principles*

ISO 1000, *SI units and recommendations for the use of their multiples and of certain other units*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 General definitions

3.1.1 General terms

3.1.1.1
pump
mechanical device for moving fluids including the inlet and outlet connections as well as, in general, the shaft ends