

Pressure equipment —

Part 1: Terminology — Pressure, temperature, volume, nominal size

The European Standard EN 764-1:2004 has the status of a
British Standard

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee PVE/1, Pressure vessels, which has the responsibility to:

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- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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Foreword

This document (EN 764-1:2004) has been prepared by Technical Committee CEN/TC 54 “Unfired pressure vessels”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2004, and conflicting national standards shall be withdrawn at the latest by December 2004.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. This European Standard is considered to be a supporting standard to those application and product standards which in themselves support an essential safety requirement of a New Approach Directive and which make reference to this European Standard.

This European Standard with the general title ‘*Pressure equipment*’ consists of seven parts which are:

Part 1: Pressure, temperature, volume, nominal size;

Part 2: Quantities, symbols and units;

Part 3: Definition of parties involved;

Part 4: Establishment of technical delivery conditions for metallic materials;

Part 5: Compliance and inspection documentation of materials;

Part 6: Operating instructions;

Part 7: Safety systems for unfired pressure equipment;

Annex A of this European Standard is informative.

This document includes a Bibliography.

This document supersedes EN 764:1994.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This part of the European Standard defines the basic terminology and symbols to be used for pressure equipment addressed by the European Directive 97/23/EC with regard to pressure, temperature, volume and nominal size.

For the purpose of this standard "pressure equipment" means vessel, piping, pressure accessory and safety accessory.

Relations between pressure quantities defined in this standard are shown in Figures 4 and 5 of EN 764-7. These figures also illustrate relations between these pressures and those related to the safety accessory.

NOTE 1 In addition to terms used in the three official CEN languages (English, French and German), this European Standard gives in annex A the equivalent terms in the Danish, Dutch, Finnish, Greek, Icelandic, Italian, Norwegian, Portuguese, Spanish, and Swedish languages; these are published under the responsibility of the respective member bodies for those countries. However, only the terms and definitions given in the official languages can be considered as EN terms and definitions.

NOTE 2 This part of the European Standard does not stipulate the units to be used for the quantities defined. These are to be taken from the other parts of the standard.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

ISO 31-0:1992, *Quantities and units - Part 0: General principles*.

3 Terms, definitions and symbols

For the purposes of this European Standard, the terms and definitions given in ISO 31-0:1992 and the following apply.

NOTE 1 All fluid pressures referred to (except 3.5 and 3.12) are relative to atmospheric pressure (also called gauge pressures). As a consequence, vacuum is designated by a negative value.

NOTE 2 Upper case letters may also be used. Additional suffixes, such as min or max, may be necessary.

3.1

chamber

fluid space within a unit of pressure equipment

NOTE The chambers are not intended to communicate between each other.

3.2

component

part of pressure equipment which can be considered as an individual item for the calculation

3.3

pressure

pressure relative to atmospheric pressure, i.e. gauge pressure. As a consequence, vacuum is designated by a negative value