

English Version

Pressure equipment - Part 6: Structure and content of operating instructions

Equipements sous pression - Partie 6: Structure et contenu des instructions de service

Druckgeräte - Teil 6: Aufbau und Inhalt einer Betriebsanleitung

This Technical Report was approved by CEN on 23 July 2012. It has been drawn up by the Technical Committee CEN/TC 54.

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Foreword

This document (CEN/TR 764-6:2012) has been prepared by Technical Committee CEN/TC 54 "Unfired pressure vessels", the secretariat of which is held by BSI.

This document supersedes CEN/TS 764-6:2004.

EN 764 "Pressure equipment" series consists of the following seven parts:

- Part 1: Terminology – 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: Structure and content of operating instructions (this Technical Report)
- Part 7: Safety systems for unfired pressure equipment

1 Scope

This part six of EN 764 is a Technical Report and as such is a generic document that identifies requirements for operating instructions which accompany the pressure equipment when it is placed on the market. It only provides general statements and thus does not claim to give presumption of conformity to the essential safety requirements of the Pressure Equipment Directive 97/23/EC (PED).

Operating instructions contain the necessary safety information covering installation including assembling, putting into service and maintenance. For specific items of pressure equipment or assemblies, more detailed requirements on the content of operating instructions can be found in specific standard series such as EN 13445 "Unfired pressure vessels", EN 13480 "Industrial piping", EN 12952 "Water-tube boilers and auxiliary installations", or EN 12953 "Shell boilers".

2 General

The manufacturer needs to identify and analyse all known and foreseeable hazards in the intended use and clearly foreseeable misuse which may occur in mounting, putting into service, use, maintenance and in-service inspections by the user of the pressure equipment.

Possible hazards which could not be eliminated in the design of the product or by secondary safety devices are treated in Clause 3 of this document. These are residual hazards which can occur when a vessel is installed and used or operated under foreseeable conditions. Where appropriate, residual hazards are dealt with in the operating instructions given by the manufacturer.

Operating instructions cover the information marked on the pressure equipment and are, where appropriate, supported by technical documents, drawings and diagrams for a full understanding.

Depending on the type of pressure equipment

- a) a manufacturer may decide to put constraints on the use of the pressure equipment, e.g. in the case of series products or "catalogue" products, or
- b) a user/client may, e.g. via project specifications, put constraints on the design or the manufacture of the pressure equipment.

In each of these cases, the constraints specified by the manufacturer (as in a)) or the solutions specified by the client (as in b)) are identified in the operating instructions.

3 Hazard analysis

3.1 General

It is the purpose of the hazard analysis to enable the manufacturer to identify and determine the potential modes of failure due to loading of the actual piece of pressure equipment which could occur when this equipment is installed and used in reasonably foreseeable conditions.

Given below in 3.2 and 3.3 are hazards or combinations of hazards which need to be considered for operating instructions. This list is not intended to be fully comprehensive, but illustrative of the scope of information which needs to be taken into account.

3.2 Possible hazards for all pressure equipment and assemblies

Hazardous situations during operations are:

- a) exceeding of internal or external maximum allowable pressure;