

Petrol filling stations —

Part 2: Safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers

The European Standard EN 13617-2:2004 has the status of a
British Standard

ICS 75.100

National foreword

This British Standard is the official English language version of EN 13617-2:2004. It supersedes BS 7117-1:1991 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee PVE/21, Fabricated metallic tanks and equipment, to Subcommittee PVE/21/2, Equipment for storage tanks, which has the responsibility to:

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Summary of pages

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**Petrol filling stations - Part 2: Safety requirements for
construction and performance of safe breaks for use on
metering pumps and dispensers**

Stations-service - Partie 2: Exigences de sécurité relatives
à la construction et aux performances des raccords
cassants utilisés pour les distributeurs de carburant

Tankstellen - Teil 2: Sicherheitstechnische Anforderungen
an Bau- und Arbeitsweise von Abreißkupplungen für
Zapfsäulen und druckversorgte Zapfsäulen

This European Standard was approved by CEN on 24 June 2004.

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Foreword

This document (EN 13617-2:2004) has been prepared by Technical Committee CEN/TC 221 “Shop fabricated metallic tanks and equipment for storage tanks and for service stations”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by March 2005, and conflicting national standards shall be withdrawn at the latest by March 2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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1 Scope

This document specifies safety requirements for the construction and performance of safe breaks to be fitted to metering pumps and dispensers installed at filling stations and used to dispense liquid fuels into the tanks of motor vehicles, boats and light aircraft and into portable containers at flow rates up to 200 l·min⁻¹.

It pays particular attention to electrical, mechanical and hydraulic characteristics of, and electrical apparatus incorporated within or mounted on, the safe break.

This document applies mainly to hazards related to the ignition of liquid fuels being dispensed or their vapour. This document also addresses electrical and mechanical hazards.

NOTE Liquefied petroleum gas (LPG) is not a liquid in the sense of this document.

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.

EN 228, *Automotive fuels - Unleaded petrol - Requirements and test methods*

EN 1127-1, *Explosive atmospheres — Explosion prevention and protection — Part 1: Basic concepts and methodology*

EN 1360, *Rubber hoses and hose assemblies for measured fuel dispensing — Specification*

EN 13463-1:2001, *Non-electrical equipment for potentially explosive atmospheres — Part 1: Basic method and requirements*

prEN 13483, *Hoses and hose assemblies with internal vapour recovery for measured fuel dispensing systems — Specification*

EN 13617-1:2004, *Petrol filling stations - Part 1: Safety requirements for the construction and performance of metering pumps, dispensers and remote pumping units*

EN 50014:1997, *Electrical apparatus for potentially explosive atmospheres — General requirements*

EN 60079-0:, *Electrical apparatus for explosive gas atmospheres - Part 0: General requirement*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation (ISO 228-1:2000)*

EN ISO 8031:1997, *Rubber and plastics hoses and hose assemblies — Determination of electrical resistance (ISO 8031:1993)*

ISO 261, *ISO general-purpose metric screw threads — General plan*

ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*

ISO 11925-3, *Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 3: Multi-source test*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13617-1:2004 and the following apply.