
Ventili v stavbah - Varnostni tlačni ventili - Preskusi in zahteve

Building valves - Pressure safety valves - Tests and requirements

Gebäudearmaturen - Sicherheitsventile - Prüfungen und Anforderungen

Robinetterie de bâtiment - Soupapes de sécurité - Essais et exigences

Ta slovenski standard je istoveten z: prEN 1489

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EUROPEAN STANDARD
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DRAFT
prEN 1489

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ICS 91.140.60

Will supersede EN 1489:2000

English Version

**Building valves - Pressure safety valves - Tests and
requirements**

Robinetterie de bâtiment - Soupapes de sécurité -
Essais et prescriptions

Gebäudearmaturen - Sicherheitsventile - Prüfungen
und Anforderungen

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prEN 1489:2026 (E)**European foreword**

This document (prEN 1489:2026) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 1489:2000.

prEN 1489:2026 includes the following significant technical changes with respect to EN 1489:2000:

- chapter on materials was completely revised;
- testing with disinfectant was introduced;
- coating test procedure was revised;
- normative references were updated;
- editorial changes have been made throughout the entire document.

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Introduction

With regard to potential adverse effect on the quality of water intended for human consumption, caused by the product covered by this document:

- a) This document provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA.
- b) It should be noted that, whilst awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and or the characteristics of this product remain in force.

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1 Scope

This document specifies dimensions, materials and performance requirements, including methods of test, for pressure safety valves, of nominal sizes from DN 15 to DN 40, having working pressures¹ from 0,1 MPa (1 bar) to 1,0 MPa (10 bar).

Pressure safety valves are intended for fitting to the potable water supply of storage water heaters, having a maximum storage temperature of 95 °C.

Pressure safety valves limit the pressure in hot water heaters.

Pressure safety valves do not control the temperature and alone do not constitute the protection required for storage water heaters. They are not intended to act as expansion valves under normal conditions.

NOTE The use of the device specified in this document does not override the need to use controls (e.g. thermostats and cut-outs) which act directly on the power sources of water heaters (for more information see Annex A).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 806-5, *Specifications for installations inside buildings conveying water for human consumption — Part 5: Operation and maintenance*

EN 1254-2, *Copper and copper alloys — Plumbing fittings — Part 2: Compression fittings for use with copper tubes*

EN 1488, *Building valves — Expansion groups — Tests and requirements*

EN 1717, *Protection against pollution of water intended for human consumption in potable water installations and general requirements for devices to prevent pollution by backflow*

EN 10226-1, *Pipe threads where pressure tight joints are made on the threads — Part 1: Taper external threads and parallel internal threads — Dimensions, tolerances and designation*

EN ISO 6509 (all parts), *Corrosion of metals and alloys — Determination of dezincification resistance of copper alloys with zinc (ISO 6509)*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227)*

ISO 691, *Assembly tools for screws and nuts — Wrench and socket openings — Tolerances for general use*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

¹ All pressures are gauge unless otherwise stated.

3.1**additional outlet connection**

outlet connection that allows cold potable water to be supplied to an additional device

Note 1 to entry: For example, inline hot water supply tempering valves etc.

3.2**pressure safety valve**

valve that limits the pressure of the water in the water heater to a predetermined value by discharging water to the drain and in case of temperature control failure, discharging the energy stored as water or steam

Note 1 to entry: For the purpose of this standard the pressure safety valve is hereafter referred as the “device”.

3.3**drain device or drain function**

device that allows the water heater to be drained without removing the pressure safety valve and the outlet connection which is also used to discharge water or steam from the pressure safety valve

3.4**air break to drain**

vertical distance realised by air inlets or full disconnection between the lowest point of the outlet and the spill-over level of the atmospheric drain overflow

3.5**nominal set pressure**

P_{nr}

pressure of the pressure safety valve which is set on production

Note 1 to entry: The “nominal set pressure” (P_{nr}) is often called “set pressure”.

3.6**water tightness pressure**

P_e

pressure up to which the pressure safety valve is closed

Note 1 to entry: See Figure 1.

3.7**initial opening pressure**

P_{dc}

<general> pressure at which the pressure safety valve opens for the first time

3.8**initial opening pressure**

$P_{dc, water}$

<water> pressure at which the pressure safety valve opens for the first time, as indicated by the first droplet of water at the outlet of the pressure safety valve, after a period of storage

Note 1 to entry: See Figure 1.