

STN	Ochrana pitnej vody pred znečistením vo vnútornom vodovode a všeobecné požiadavky na zabezpečovacie zariadenia na zamedzenie znečistenia pri spätnom prúdení	STN EN 1717 75 5205
------------	---	---------------------------------------

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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/25

Obsahuje: EN 1717:2025

Oznámením tejto normy sa ruší
STN EN 1717 (75 5205) z decembra 2002

141229



EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1717

August 2025

ICS 13.060.20; 23.060.01; 91.140.60

Supersedes EN 1717:2000

English Version

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

Protection contre la pollution de l'eau destinée à la
consommation humaine dans les installations d'eau
potable et exigences générales applicables aux
dispositifs de protection contre la pollution par retour

Schutz des Trinkwassers vor Verunreinigungen in
Trinkwasser-Installationen und allgemeine
Anforderungen an Sicherungseinrichtungen zur
Verhütung von Trinkwasserverunreinigungen durch
Rückfließen

This European Standard was approved by CEN on 5 June 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 1717:2025 (E)

Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	7
3 Terms and definitions	8
4 Pollution of potable water: general observations	11
4.1 General.....	11
4.2 Backflow of non-potable water	11
4.3 Cross-connection.....	11
4.4 External influences.....	11
4.5 Materials	11
4.6 Stagnation.....	12
4.7 Inadequate or improper maintenance.....	12
5 Analysis method of the pollution risks and choice of protection	12
5.1 General remarks	12
5.2 Determination of fluid categories.....	12
5.2.1 General.....	12
5.2.2 Category 1	12
5.2.3 Category 2	12
5.2.4 Category 3	13
5.2.5 Category 4	13
5.2.6 Category 5	13
5.2.7 Mixture of fluids	13
5.3 Determination of the installation characteristics.....	13
5.3.1 General.....	13
5.3.2 Pressure	13
5.3.3 Connections.....	14
5.3.4 Risk attenuation	14
5.4 Separation by single or double walls.....	14
5.4.1 General.....	14
5.4.2 Rules	14
5.4.3 Leakage test on double-wall-separation	15
5.5 Air break to drain	15
5.6 Installation matrix.....	15
5.7 Protection units	16
5.7.1 Generalities.....	16
5.7.2 Functional requirements for protection units against pollution	16
5.7.3 Description and installation requirements of the protection units	17
5.8 Matrix of the protection units appropriate to fluid categories.....	17
5.9 Summary of analysis method	18
6 Protection of equipment installed at the draw-off point (Point-of-Use systems)	19
6.1 General.....	19
6.2 Special provisions for domestic Point-of-Use systems.....	19

7	Protection at the connection point to the public potable water system.....	20
8	Air break to drain	20
8.1	General	20
8.2	Minimum requirements.....	21
8.3	Calculation of air inlets or overflow openings	22
	Annex A (normative) Reference list of the protection units	23
	Annex B (informative) Guide table for determining the fluid category from which protection is required.....	55
	Annex C (informative) Example for the selection of protection devices for the domestic and non-domestic use.....	57
C.1	Example — Care lift bath.....	57
C.2	Example — Utilization of rain water	58
C.3	Example — Detergent dosing system.....	59
C.4	Example — Filling station for heating systems.....	61
C.5	Example — Animal drinking trough	62
C.6	Example — Flushing compressor for sewages systems.....	63
C.7	Example — Tank filling for vehicles with water tanks	64
	Bibliography	66

EN 1717:2025 (E)**European foreword**

This document (EN 1717:2025) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

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 February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1717:2000.

This document includes the following significant technical changes with respect to EN 1717:2000:

- the Scope has been made more precise, extended and revised;
- terms and definitions have been amended;
- all Figures have been updated and re-drawn;
- Table 2 has been updated;
- Clause “Air break to drain” has been revised;
- Annex A and Annex B have been completely revised;
- Annex C has been revised and provides application examples.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the products covered by this document, it provides no information as to whether the products may be used without restriction in any of the Member state of the EU or EFTA;

NOTE While awaiting the adoption of verifiable European criteria, attention is also drawn to national regulations that can apply.

The UK Matrix of the protection units appropriate to fluid categories (Table 2) and the determination of fluid categories (5.2) differs to that detailed within the body of this document. The British Standard version of EN 1717 therefore contains an A deviation to cover the limited technical deviations to ensure compliance with the Water Supply (fittings) Regulations 1999.

Annex A of this document is normative.

Annex B and Annex C of this document are informative.

EN 1717:2025 (E)**1 Scope**

This document specifies an analysing methodology for protecting potable water in potable water installations within and outside buildings but within premises from the risk of pollution by backflow of non-potable water and gives recommendations on the design, risk analysis, backflow prevention devices and their installation methods (see Figure 1 and Figure 2).

This methodology is also intended to be used outside premises for all water systems connected to a potable water distribution system up to and including the point of use (see Figure 3).

The product standards for the specific backflow prevention devices or arrangements are intended to be used in conjunction with this document. For the development of new devices or systems, this document is intended to be used as a reference to establish the necessary level of backflow protection.

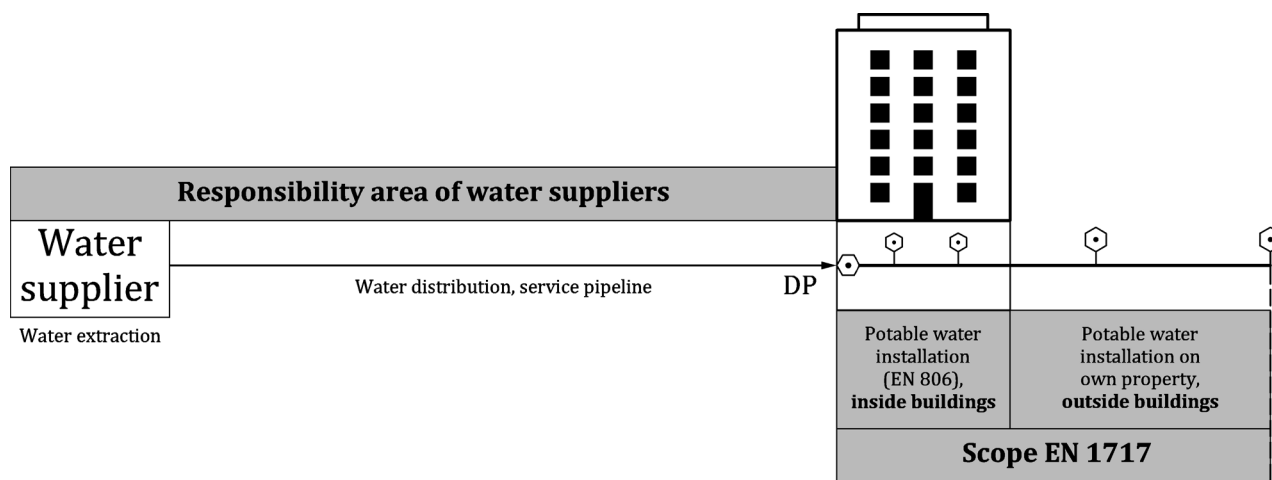


Figure 1 — Operator of a building on own property (land), delivery point (DP) in the building, EN 1717 Scope of application inside and outside buildings

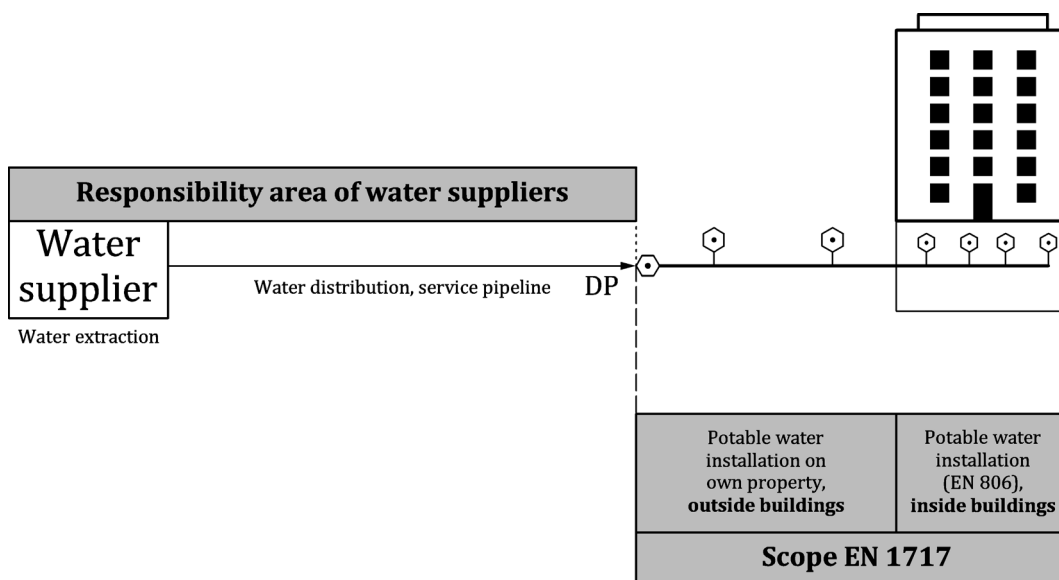


Figure 2 — Operator of a building with its own property (land), delivery point (DP) at the property boundary, EN 1717 Scope of application inside and outside buildings.

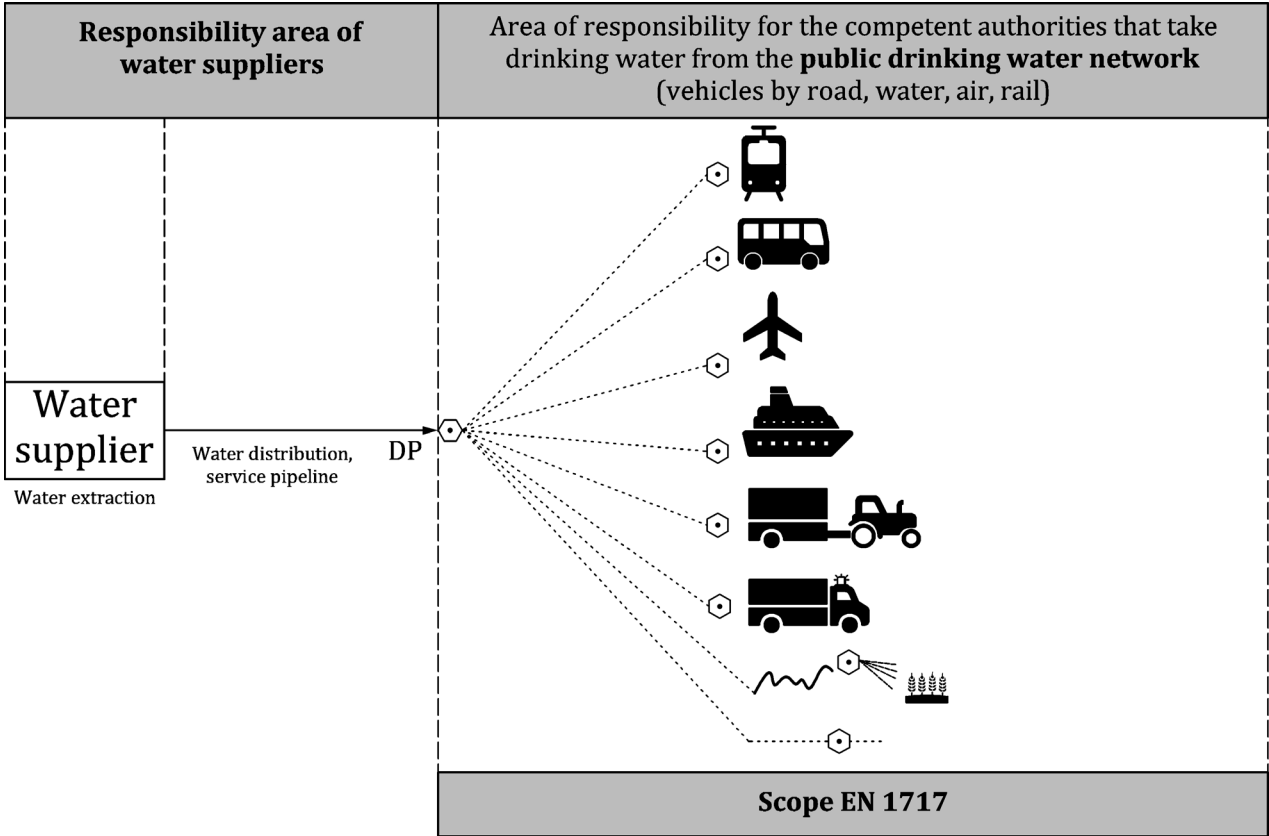


Figure 3 — Withdrawal of drinking water from a public drinking water service pipeline at the delivery point (DP) for the operation and/or filling of mobile units with containers (vehicles on road, water, air, rail), EN 1717 with scope at the transfer point in the outdoor area, supply network

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 (all parts), *Specifications for installations inside buildings conveying water for human consumption*

EN 12729, *Devices to prevent pollution by backflow of potable water - Controllable backflow preventer with reduced pressure zone - Family B - Type A*

EN 13076, *Devices to prevent pollution by backflow of potable water - Unrestricted air gap-Family A - Type A*

EN 13077, *Devices to prevent pollution by backflow of potable water - Air gap with non-circular overflow (unrestricted) - Family A - Type B*

EN 13078, *Devices to prevent pollution by backflow of potable water - Air gap with submerged feed incorporating air inlet plus overflow - Family A, type C*

EN 13079, *Devices to prevent pollution by backflow of potable water - Air gap with injector - Family A - Type D*

EN 1717:2025 (E)

EN 13433, *Devices to prevent pollution by backflow of potable water - Mechanical disconnecter, direct actuated - Family G, type A*

EN 13959, *Anti-pollution check valves - DN 6 to DN 250 inclusive family E, type A, B, C and D*

EN 14367, *Non controllable backflow preventer with different pressure zones - Family C, type A*

EN 14451, *Devices to prevent pollution by backflow of potable water - In-line anti-vacuum valves DN 10 to DN 50 inclusive - Family D, type A*

EN 14452, *Devices to prevent pollution by backflow of potable water - Pipe interrupter with atmospheric vent and moving element DN 10 to DN 20 - Family D, type B*

EN 14453, *Devices to prevent pollution by backflow of potable water - Pipe interrupter with permanent atmospheric vent DN 10 to DN 20 - Family D, type C*

EN 14622, *Devices to prevent pollution by backflow of potable water - Air gap with circular overflow (restricted) - Family A, type F*

EN 14623, *Devices to prevent pollution by backflow of potable water - Air gaps with minimum circular overflow (verified by test or measurement) - Family A, type G*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN