DIN EN 1717:2026-08 (E)

Protection against pollution of water intended for human consumption in potable water installations and general requirements for devices to prevent pollution by backflow (includes Amendment :2026)

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 19

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 21
8.1 General 21
8.2 Minimum requirements 22
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

Annex D (informative) A-deviations 66

Bibliography 67