

DIN 1988-200:2012-05 (E)

Codes of practice for drinking water installations - Part 200: Installation Type A (closed system) - Planning, components, apparatus, materials; DVGW code of practice

Contents	Page
A comma is used as the decimal marker. Foreword	4
1 Scope	6
2 Normative references	6
3 General requirements	13
3.1 Water supply	13
3.2 Basic concepts	14
3.3 Underground pipework	16
3.4 Materials, components and appliances	16
3.5 Design flow rates	17
3.6 Operating temperature	17
3.7 Drinking water hygiene	17
3.8 Documentation for design and installation	18
3.9 Sampling points	18
3.10 Building services control rooms, services shafts and ducts	18
4 Private water supply	19
5 Materials	19
5.1 Choice of material	19
5.2 Pipe joints	19
5.3 Materials used in pipe joint assemblies	19
5.4 Auxiliary materials	19
6 Components	20
6.1 Stop valves	20
6.2 Expansion joints	20
6.3 Hoses	20
6.4 Circulation valves	20
6.5 Taps	20
6.6 Protection units (backflow prevention units)	21
6.7 Pressure relief valves	21
6.8 Water leak detectors	21
6.9 Appliances	21
6.10 Expansion vessels	21
7 Pipework inside buildings	22
7.1 Isolation	22
7.2 Wall and floor penetrations	22
8 Cold drinking water supply	23
8.1 Drinking water taps	23
8.2 Differentiation and identification of pipes and components	23
8.3 Supply and distributing pipes	24
8.4 Electrical isolators	25
9 Hot water systems	25

9.1	General	25
9.2	Components	25
9.3	Taps and mixing valves	27
9.4	Surface temperatures	28
9.5	Connections between cold and hot water pipes	28
9.6	Additional requirements	28
9.7	Water heaters	28
10	Prevention of bursting	30
10.1	General	30
10.2	Energy control	30
10.3	Pressure control	31
10.4	Expansion water	32
10.5	Pipework	33
11	Guidelines for water meter installations	34
11.1	General	34
11.2	Selection	34
11.3	Location -- accessibility	34
11.4	Household water meters	35
12	Water conditioning	35
12.1	General	35
12.2	Basic requirements	35
12.3	Aspects of water conditioning	36
12.4	Mechanical filters	37
12.5	Chemical dosing	37
12.6	Softening by ion exchange	38
12.7	Descalers	38
12.8	Disinfection by ultraviolet radiation	39
13	Noise insulation, fire protection and damp proofing	39
13.1	Noise insulation	39
13.2	Fire protection	40
13.3	Damp proofing	40
14	Protection of drinking water installations against temperatures external to pipes, fittings and appliances	40
14.1	Freezing	40
14.2	Further requirements to be met by pipe insulation and other coverings	40
15	Pressure boosting	43
16	Pressure reducing valves	43
16.1	General	43
16.2	Installation	43
16.3	Sizing	44
17	Combined drinking water and firefighting services	45
18	Prevention of corrosion damage	45
18.1	Combination of dissimilar materials	45
18.2	Cathodic corrosion protection	45
18.3	Prevention of external corrosion	46
	Annex A (normative) List of suitable materials	48
	Annex B (normative) Terms and definitions	50
	Bibliography	51