INTERNATIONAL STANDARD

ISO 15877-5

Second edition
2009-03-15

AMENDMENT 1
2010-11-01

Plastics piping systems for hot and cold water installations — Chlorinated poly(vinyl chloride) (PVC-C) —

Part 5: Fitness for purpose of the system

AMENDMENT 1

Systèmes de canalisations en plastique pour les installations d'eau chaude et froide — Poly(chlorure de vinyle) chloré (PVC-C) —

Partie 5: Aptitude à l'emploi du système

AMENDEMENT 1

Reference number
ISO 15877-5:2009/Amd.1:2010(E)

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Published in Switzerland

Foreword

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

Amendment 1 to ISO 15877-5:2009 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting systems*, in collaboration with ISO Technical Committee TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 2, *Plastics pipes and fittings for water supplies*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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PVC-C Type I piping systems for low-temperature heating applications have been used successfully in some countries for more than 30 years. Therefore, this amendment proposes to add to ISO 15877-5, Class 4 as defined in ISO 10508, for the conditions of service used in these countries (4 bar and 6 bar).

Page 4, 4.2.2, Table 3

Delete the existing Table 3, and insert:

Table 3 — Derivation of hydrostatic test pressure of solvent cement joints for PVC-C Type I

	Class 1	Class 2	Class 4
Maximum design temperature T_{max} °C	80	80	70
Design stress in the fitting material σ_{DF} MPa	3,17	3,08	2,51
Test temperature T_{Test} °C	80	80	80
Test duration t h	$\geqslant$ 3 000	$\geqslant$ 3 000	$\geqslant$ 3 000
Hydrostatic stress of the fitting material σ_F MPa	6,14	6,14	6,14
Test pressure p_J in bars			
for a design pressure, p_D, of 4 bar	7,7	8,0	9,8
6 bar	11,6	12,0	14,7
8 bar	15,5	15,9	Not applicable
10 bar	19,4	19,9	Not applicable
Number of test pieces	3	3	3

Page 5, 4.2.3, Table 5

Delete the existing Table 5, and insert:

Table 5 — Derivation of hydrostatic test pressure of mechanical joints for PVC-C Type I

	Class 1	Class 2	Class 4
Maximum design temperature T_{max} °C	80	80	70
Design stress in the pipe material σ_{DF} MPa	4,38	4,16	4,46
Test temperature T_{Test} °C	80	80	80
Test duration t h	$\geqslant$ 3 000	$\geqslant$ 3 000	$\geqslant$ 3 000
Hydrostatic stress of the pipe material σ_F MPa	8,25	8,25	8,25
Test pressure p_J in bars			
for a design pressure, p_D, of 4 bar	7,5	7,9	7,4
6 bar	11,3	11,9	11,1
8 bar	15,1	15,9	Not applicable
10 bar	18,8	19,8	Not applicable
Number of test pieces	3	3	3

ICS 23.040.20; 91.140.60

Price based on 2 pages