INTERNATIONAL STANDARD

ISO 15877-3

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AMENDMENT 1
2010-11-01

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

Part 3: **Fittings**

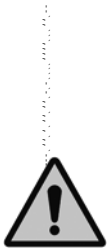
AMENDMENT 1

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

Partie 3: Raccords

AMENDEMENT 1

Reference number
ISO 15877-3:2009/Amd.1:2010(E)



ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 15877-3:2009 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting system*, 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 15877-3, Class 4 as defined in ISO 10508, for the conditions of service used in these countries (4 bar and 6 bar).

Page 4, 4.3, Note 3

Delete the existing Note 3, and insert:

NOTE 3 The reference curves in Figure 2 for PVC-C Type II in the temperature range of 10 °C to 100 °C are derived from Equation (2).

Page 22, 7.3, Table 16

Delete the existing Table 16, and insert:

Table 16 — Derivation of hydrostatic test pressure 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	3,17	3,17	3,08	3,08	3,08	2,51	2,51	2,51
Test temperature[a] T_{Test} °C		20	60	80	20	60	80	20	60	70
Test duration t h		⩾ 1	⩾ 1	⩾ 3 000	⩾ 1	⩾ 1	⩾ 3 000	⩾ 1	⩾ 1	⩾ 3 000
Hydrostatic stress of the fitting material σ_F MPa		33,70	21,07	6,14	33,70	21,07	6,14	33,70	21,07	9,16
Test pressure p_F in bars for a design pressure, p_D, of	4 bar	42,5	26,6	7,7	43,8	27,4	8,0	53,7	33,6	14,6
	6 bar	63,8	39,9	11,6	65,6	41,0	12,0	80,6	50,4	21,9
	8 bar	85,0	53,2	15,5	87,5	54,7	15,9	—	—	—
	10 bar	106,3	66,5	19,4	109,4	68,4	19,9	—	—	—
Number of test pieces		3	3	3	3	3	3	3	3	3

[a] The short-term test is carried out alternatively at 20 °C or 60 °C. In case of dispute, testing shall be done at 60 °C.

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