INTERNATIONAL STANDARD

ISO 8483

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Glass-reinforced thermosetting plastics (GRP) pipes and fittings — Test methods to prove the design of bolted flange joints

AMENDMENT 1

Tubes et raccords en plastiques thermodurcissables renforcés de verre (PRV) — Méthodes d'essai pour confirmer la conception des assemblages à brides boulonnées

(staffuarens.iteh.ai)



ISO 8483:2003/Amd.1:2012(E)

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ISO 8483:2003/Amd 1:2012 https://standards.iteh.ai/catalog/standards/sist/c2123734-ff0d-48b0-a22e-8cdd51d2297d/iso-8483-2003-amd-1-2012



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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 8483:2003 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 6, *Reinforced plastics pipes and fittings for all applications*.

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AMENDMENT 1

Title

Correct the title to read as follows:

Plastics piping systems for pressure and non-pressure drainage and sewerage — Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin — Test methods to prove the design of bolted flange joints

Page 1, Scope

Replace the first sentence as follows:

This International Standard specifies methods of test for bolted flange joints intended to be used in plastics piping systems, for buried or non-buried, pressure and non-pressure drainage and sewerage made of glass-reinforced thermosetting plastics (GRR) based on unsaturated polyester (UP) resin.

Page 7, 7.4.2.1 (standards.iteh.ai)

Replace the subclause with the following:

ISO 8483:2003/Amd 1:2012

Steadily increase the hydrostatic pressure to 2,0 times the nominal pressure of the joint, expressed in bars, and maintain within ± 2 % for not less than 244h (see 3 Table 1) 2012

Page 7, 7.5.8

Replace the subclause with the following:

Steadily increase the hydrostatic pressure to 2,0 times the nominal pressure of the joint, expressed in bars, and maintain within \pm 2 % for not less than 24 h (see Table 1).

Page 10, Table 1

Replace Table 1 with the following in which some of the table headings have been updated as well as the test pressure for resistance to internal pressure and end thrust:

Summary of test requirements

Property to be tested	Test to be performed	Test pressure	Duration	Subclause number
External pressure differential	Negative pressure	-0,8 bar (-0,08 MPa)	1 h	7.2 and Figure 2 a)
Initial leakage	Initial pressure	1,5 × PN	15 min	7.3 and Figure 2 a)
Resistance to internal pressure and end thrust	Preliminary pressure	1,5 × PN	15 min	7.4.1.1 to 7.4.1.2 and Figure 2 a)
	Positive cyclic pressure	atmospheric to 1,5 × PN and back to atmospheric	10 cycles of 1,5 to 3,0 min each	7.4.1.3 to 7.4.1.5 and Figure 2 a)
	Maintained pressure	2,0 × PN	24 h	7.4.2.1 to 7.4.2.3 and Figure 2 a)
Resistance to bending with end thrust	Preliminary pressure	1,5 × PN	15 min	7.5.1 to 7.5.7 and Figure 3
	Maintained pressure	1,5 × PN	24 h	7.5.9 to 7.5.11 and Figure 3
Short-duration resistance	Maintained pressure	2,5 × PN or 3,0 × PN	100 h 6 min	7.6.5 and Figure 2 a)
Bolt-tightening torque	Visual inspection	Not applicable	Not applicable	7.7 and Figure 1

NOTE 1 Nominal pressure (PN) is an alphanumeric designation of pressure related to the resistance of a component of a piping system to internal pressure. For the purposes of this table PN is to be expressed in bars.

NOTE 2 A test sequence other than that given in this table may be used. PREVIEW

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