SLOVENSKI STANDARD
kSIST prEN 1119:2009

01-januar-2009

Cevni sistemi iz polimernih materialov - Spoji za cevi in fitinge iz duromernih materialov, ojaļ enih s steklenimi vlakni (GRP) - Metode za preskus tesnjenja in odpornosti proti poģkodbam gibljivih in omejeno gibljivih spojev

Plastics piping systems - Joints for glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods for leaktightness and resistance to damage of non-thrust resistant flexible joints with elastomeric sealing elements

Kunststoff-Rohrleitungssysteme - Verbindungen für Rohre und Formstücke aus glasfaserverstärkten duroplastischen Kunststoffen (GFK) - Prüfverfahren zur Dichtheit und Widerstandsfähigkeit gegen Beschädigung von nicht druckbeständigen flexiblen Verbindungen mit elastomeren Dichtungselementen

Systèmes de canalisations plastiques - Assemblages pour tubes et raccords en plastique thermodurcissable renforcé de verre (PRV) - Méthodes d'essai d'étanchéité et de résistance à l'endommagement des assemblages flexibles non résistants à la poussée avec bagues d'étanchéité en élastomère

Ta slovenski standard je istoveten z: **prEN 1119**

ICS:

23.040.60	Prirobnice, oglavki in spojni elementi	Flanges, couplings and joints

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

FINAL DRAFT
prEN 1119

August 2008

ICS 23.040.60

Will supersede EN 1119:1996

English Version

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This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 155.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (prEN 1119:2008) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 1119:1996.

The modifications are:

— changed title and scope to remove “reduced articulation” and clarify intent

— changed testing sequence from mandatory to suggested

— clarified support conditions and requirements

The material-dependent test parameters and/or performance requirements are incorporated in the referring standard.

This standard is one of a series of standards on test methods which support System Standards for plastics piping systems and ducting systems.

1 Scope

This European Standard specifies test methods for flexible non-thrust resistant socket-and-spigot joints with elastomeric sealing elements for buried and above ground glass-reinforced thermosetting plastics (GRP) pipeline applications. It covers methods of test for the leaktightness and resistance to damage of the joint only, when subject to specified combinations of longitudinal extension (draw), angular movement (angular deflection), compression (misalignment) perpendicular to the pipe axis and internal pressure. This European Standard is applicable to joints for either pressure or non-pressure applications.

NOTE The joints tested in accordance with this European Standard are subjected to conditions which measure their ability to function and thereby prove the design of the joint, especially for type test purposes.

These test procedures are applicable to joints for pipes and fittings of all nominal sizes. The tests are suitable for the evaluation of joints intended for applications in which the liquids are conveyed at temperatures specified in the referring standards.

2 Principle

A test piece comprising two pieces of pipe jointed together, by incorporation of a socket or inclusion of a double-socket coupler, is subjected to specified combinations of draw, angular deflection and misalignment. In each specified combination the test piece is subjected to a series of test pressures for specified periods of time, including an internal sub-atmospheric test pressure.

In addition, joints for pressure applications are subjected to a specified cyclic pressure test.

When under pressure, the joint is monitored for leakage.

Between each test condition (see Table 1 and Table 2) the joint is inspected for signs of damage.

NOTE It is assumed that the following test parameters are set by the standard making reference to this European Standard:

a) the nominal size of the components to be connected by the joint (see 4.1);
b) the pressure class of the components (see 4.1);
c) the total effective length, L, of the test piece (see 4.1);
d) the number of test pieces (see 4.2);
e) if applicable, the conditioning to be applied (see Clause 5);
f) the test temperature (see Clause 6);
g) sequence of testing, if appropriate (see 7.1)
h) the joint positions (see Table 1 and Table 2);
i) the draw, angular deflection (see 7.2.3) and the force F (see 7.3.5);
j) the permissible change in negative pressure (see 7.5.4).

3 Apparatus

3.1 End sealing devices, of sizes and type appropriate to the components under test, anchored to take the axial end thrust and permit free longitudinal movement.