Vask ja vasesulamid. Torustikuliitmikud. Osa 3: Pigistusotsaga liitmikud kasutamiseks plasttorudel

Copper and copper alloys - Plumbing fittings - Part 3: Fittings with compression ends for use with plastics pipes



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1254-
3:1999 sisaldab Euroopa standardi EN
1254-3:1998 ingliskeelset teksti.

Käesolev dokument on jõustatud 12.12.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 1254-3:1999 consists of the English text of the European standard EN 1254-3:1998.

This document is endorsed on 12.12.1999 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

Käesolev normdokumendi EN 1254 osa määrab kindlaks pigistusotsaga liitmike mõõtmed külmaveesüsteemis või külmaja kuumavee ühtses süsteemis või kütuseks mittekasutatava gaasi torustikes kasutamiseks ettenähtud plasttorude ühendamiseks.

Scope:

ICS 23.040.40

Võtmesõnad: konstruktsioon, mõõtmed, mõõtmetolerantsid, märgistus, plasttorud, testimine, tootmine, toruliitmikud, tähistus, vasesulamid, vask, ühendamine

EUROPEAN STANDARD EN 1254-3

NORME EUROPÉENNE EUROPÄISCHE NORM

January 1998

ICS 23.040.40

Descriptors: Copper, plumbing fittings.

English version

Copper and copper alloys – Plumbing fittings

Part 3: Fittings with compression ends for use with plastics pipes

Cuivre et alliages de cuivre – Raccords – Partie 3: Raccords à compression pour tuyaux en plastique Kupfer und Kupferlegierungen – Fittings – Teil 3: Klemmverbindungen für Kunststoffrohre

This European Standard was approved by CEN on 1997-11-24.

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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Contents

		Page		
Foreword 4				
1	Scope	5		
2	Normative references	5		
3 3.1 3.2 3.3 3.4 3.5 3.6 3.7	Definitions plumbing fitting compression end reducer (compression end with plastic pipe) adaptor fitting nominal diameter production test type test Requirements	7 7 7 8 8 8 8 8 8		
4.1 4.2 4.3 4.4 4.5 4.6	General Materials Dimensions and tolerances Design and manufacture Production test requirements Type test requirements	9 9 10 15 16 16		
5 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10	Test methods Pressure test Dezincification resistance test Leaktightness under internal pressure Resistance to pull-out Leaktightness under internal pressure whilst subjected to bending Leaktightness under external hydrostatic pressure Vacuum test Thermal cycling test Pressure cycling test Stress corrosion resistance test	17 17 18 18 18 18 19 19		
6	Designation	19		

7 7.1 7.2	Marking General Dezincification resistant copper-zinc alloys	20 20 20
8 8.1 8.2	Documentation Declaration of conformity User instructions	20 20 20
Annex	A (informative) Types of fitting and description of parts	21
Annex	(normative) Test criteria, depending on application and plastics pipe material, to test pipe joints of metallic fittings with compression ends	23
Annex	(normative) Determination of mean depth of dezincification	24
Annex	D (informative) Bibliography	25
	O Dreview Send of the Strip	

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 133 "Copper and copper alloys", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1998, and conflicting national standards shall be withdrawn at the latest by July 1998.

Within its programme of work, Technical Committee CEN/TC 133 requested CEN/TC 133/WG 8 "Copper and copper alloy fittings" to prepare the following standard:

EN 1254-3 Copper and copper alloys - Plumbing fittings - Part 3: Fittings with compression ends for use with plastics pipes

This standard is one of five parts for copper and copper alloy fittings for joining copper tubes or plastics pipes. The other four parts of the standard are:

- EN 1254-1 Copper and copper alloys Plumbing fittings Part 1: Fittings with ends for capillary soldering or capillary brazing to copper tubes
- EN 1254-2 Copper and copper alloys Plumbing fittings Part 2: Fittings with compression ends for use with copper tubes
- EN 1254-4 Copper and copper alloys Plumbing fittings Part 4: Fittings combining other end connections with capillary or compression ends
- EN 1254-5 Copper and copper alloys Plumbing fittings Part 5: Fittings with short ends for capillary brazing to copper tubes

It is recommended that fittings manufactured to this standard are certified as conforming to the requirements of this standard, based on third party testing and continuing surveillance which should be coupled with an assessment of a supplier's quality system against the appropriate standard i.e. EN ISO 9001 or EN ISO 9002.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this standard:

- 1) this standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;
- 2) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

The attention of the user of this standard is drawn to the fact that national or local regulations or practices might restrict the choice of dimensions and threads in the application of products conforming to this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies materials, assembly dimensions and tolerances and test requirements for fittings of copper and copper alloys with or without plating or coating. This part of EN 1254 specifies connection end dimensions of compression ends for the purpose of joining plastics pipes for use in cold or combined hot and cold water systems or non-fuel gas systems. Fittings may comprise a combination of any of the end types specified in EN 1254-1 to EN 1254-5 or other standards.

The standard establishes a designation system for the fittings.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

EN 712	Thermoplastics piping systems - End-load bearing mechanical joints between pressure pipes and fittings - Test method for resistance to pull-out under constant longitudinal force
EN 713	Plastics piping systems - Mechanical joints between fittings and polyolefin pressure pipes - Test method for leaktightness under internal pressure of assemblies subjected to bending
EN 715	Thermoplastics piping systems - End-load bearing joints between small diameter pressure pipes and fittings - Test method for leaktightness under internal water pressure, including end thrust
EN 911	Plastics piping systems - Elastomeric sealing ring type joints and mechanical joints for thermoplastics pressure piping - Test method for leaktightness under external hydrostatic pressure

Page 6 EN 1254-3 : 1998	
EN 1254-1	Copper and copper alloys - Plumbing fittings - Part 1: Fittings with ends for capillary soldering or capillary brazing to copper tubes
EN 1254-2	Copper and copper alloys - Plumbing fittings - Part 2: Fittings with compression ends for use with copper tubes
EN 1254-4	Copper and copper alloys - Plumbing fittings - Part 4: Fittings combining other end connections with capillary or compression ends
EN 1254-5	Copper and copper alloys - Plumbing fittings - Part 5: Fittings with short ends for capillary brazing to copper tubes
prEN 12201-5	Plastics piping systems for water supply - Polyethylene (PE) - Part 5: Fitness for purpose of the system
prEN 12202-5	Plastics piping systems for hot and cold water - Polypropylene (PP) - Part 5: Fitness for purpose of the system
prEN 12293	Plastics piping systems - Thermoplastics pipes and fittings for hot and cold water - Test method for the resistance of mounted assemblies to temperature cycling
prEN 12294	Plastics piping systems - Systems for hot and cold water - Test method for leaktightness under vacuum
prEN 12295	Plastics piping systems - Thermoplastics pipes and associated fittings for hot and cold water - Test method for resistance of joints to pressure cycling
prEN 12318-5	Plastics piping systems for hot and cold water - Cross-linked polyethylene (PE-X) - Part 5: Fitness for purpose of the system

Part 5: Fitness for purpose of the system

prEN 12319-5

Plastics piping systems for hot and cold water - Polybutylene (PB) -