

## SLOVENSKI STANDARD oSIST prEN ISO 11299-3:2018

01-marec-2018

Cevni sistemi iz polimernih materialov za obnovo podzemnih omrežij za oskrbo s plinom - 3. del: Oblaganje s tesno prilagodljivimi cevmi (ISO/DIS 11299-3:2018)

Plastics piping systems for renovation of underground gas supply networks - Part 3: Lining with close-fit pipes (ISO/DIS 11299-3:2018)

Kunststoff-Rohrleitungssysteme für die Renovierung von erdverlegten Gasversorgungsnetzwerken - Teil 3: Close-Fit-Lining (ISO/DIS 11299-3:2018)

Systèmes de canalisations en plastique pour la rénovation des réseaux de gaz enterrés - Partie 3: Tubage par tuyau continu sans espace annulaire (ISO/DIS 11299-3:2018)

Ta slovenski standard je istoveten z: prEN ISO 11299-3

ICS:

83.140.30 Polimerne cevi in fitingi za Plastics pipes and fittings for

snovi, ki niso tekočine non fluid use

91.140.40 Sistemi za oskrbo s plinom Gas supply systems

oSIST prEN ISO 11299-3:2018 en

oSIST prEN ISO 11299-3:2018

## iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 11299-3:2019

# DRAFT INTERNATIONAL STANDARD ISO/DIS 11299-3

ISO/TC **138**/SC **8** Secretariat: **JISC** 

Voting begins on: Voting terminates on:

2018-01-05 2018-03-30

## Plastics piping systems for renovation of underground gas supply networks —

#### Part 3:

#### Lining with close-fit pipes

Systèmes de canalisations en plastique pour la rénovation des réseaux de gaz enterrés — Partie 3: Tubage par tuyau continu sans espace annulaire

ICS: 75.200; 23.040.45; 23.040.20

iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 11299-3:2019

https://standards.iteh.ai/catalog/standards/sist/632cc98c-79d1-48d4-9b79-8bd056ab2706/sist-en-iso-11299-3-2019

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

This document is circulated as received from the committee secretariat.

#### ISO/CEN PARALLEL PROCESSING



Reference number ISO/DIS 11299-3:2018(E)

## iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 11299-3:2019

https://standards.jteh.aj/catalog/standards/sist/632cc98c-79d1-48d4-9b79-8bd056ab2706/sist-en-iso-11299-3-2019



#### COPYRIGHT PROTECTED DOCUMENT

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

Con	Contents			
Forev	word		v	
Intro	ductio	on	vi	
1	Scop	oe	1	
2	-	native references		
3		ns and definitions		
4	<b>Sym</b> : 4.1	bols and abbreviated terms Symbols		
	4.2	Abbreviated terms		
5	Pipes at the "M" stage			
	5.1	Materials		
		5.1.1 Virgin material		
		5.1.2 Reprocessable and recyclable material		
	5.2	General characteristics		
		5.2.1 Appearance 5.2.2 Colour		
	5.3	Material characteristics		
	5.4	Geometric characteristics		
	5.5	Mechanical characteristics		
	5.6	Physical characteristics	5	
	5.7	Jointing		
	5.8	Marking		
	5.9	Regional requirements for pipes		
6	Fittings at the "M" stage 6.1 Requirements			
	6.2	Marking		
	6.3	Regional requirements for fittings		
7		llary components		
	7.1	Requirements SISTEM ISO 1200 22010		
	rd7.2el	Regional requirements for ancillary components		
8		ess for purpose of the installed lining system at the "I" stage		
	8.1	Materials		
	8.2 8.3	General characteristics  Material characteristics		
	8.4	Geometric characteristics		
	8.5	Mechanical characteristics		
	8.6	Physical characteristics		
	8.7	Additional characteristics		
	8.8	Sampling		
	8.9	Regional requirements for the installed lining system		
9	Installation practice			
	9.1	Preparatory work		
	9.2	Storage, handling and transport of pipes and fittings	9	
	9.3	Equipment		
		9.3.1 Butt fusion and debeading equipment		
		9.3.3 Pipe skids/rollers		
		9.3.4 Winching and rod-pulling equipment		
		9.3.5 Pipe entry guides		
		9.3.6 Reforming equipment	10	
		9.3.7 Electrofusion equipment		
		9.3.8 Inspection equipment	11	

iii

#### oSIST prEN ISO 11299-3:2018

#### ISO/DIS 11299-3:2018(E)

	9.3.9 Lifting equipment	11		
9.4	Installation			
9.5	Process-related inspection and testing			
9.6	Lining termination			
9.7	Reconnection to existing laterals			
9.8	Final inspection and testing			
9.9	Documentation			
Annex A (normative) Factory-folded heat-reverted polyethylene (PE) pipe —Determination				
	emory ability	13		
Ribliogran	hy	15		

### iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 11299-3:2019

#### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: <a href="www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 8, *Rehabilitation of pipeline systems* 

This second edition cancels and replaces the first edition (ISO 11299-3:2011), <u>Figure 1</u> and <u>clauses 1</u>, <u>2</u>, <u>3.3</u>, <u>3.4</u>, <u>3.6</u>, <u>5.7</u>, <u>5.8</u>, <u>6</u>, <u>8.4</u>, <u>8.5</u>, and <u>9.2</u> to <u>9.8</u> of which have been technically revised.

A list of all parts in the ISO 11299- series can be found on the ISO website.

SIST EN ISO 11299-3:2019

#### Introduction

This document is a part of a System Standard for plastics piping systems of various materials used for the renovation of existing pipelines in a specified application area. System Standards for renovation dealing with the following applications are either available or in preparation:

- Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks;
- Plastics piping systems for renovation of underground drainage and sewerage networks under pressure
- Plastics piping systems for renovation of underground water supply networks;
- Plastics piping systems for renovation of underground gas supply networks (this application);

These System Standards are distinguished from those for conventionally installed plastics piping systems by the requirement to verify certain characteristics in the "as-installed" condition, after site processing. This is in addition to specifying requirements for plastics piping systems components "as manufactured".

This System Standard comprises a:

— Part 1: General

and all applicable renovation technique family-related parts, which for water supply networks under pressure include or potentially include the following:

- Part 2: Lining with continuous pipes
- Part 3: Lining with close-fit pipes (this document)
- Part 4: Lining with cured-in-place pipes
- Part 6: Lining with adhesive-backed hoses
- Part 11: Lining with inserted hoses

The requirements for any given renovation technique family are given in part 1, applied in conjunction with the relevant other part. For example, ISO 11299-1 and this document together specify the requirements relating to lining with close-fit pipes. For complementary information, see ISO 11295. Not all technique families are pertinent to every area of application and this is reflected in the part numbers included in each System Standard.

A consistent structure of clause headings has been adopted for all parts of ISO 11299, in order to facilitate direct comparisons across renovation technique families.

Figure 1 shows the common part and clause structure and the relationship between ISO 11299 and the System Standards for other application areas.

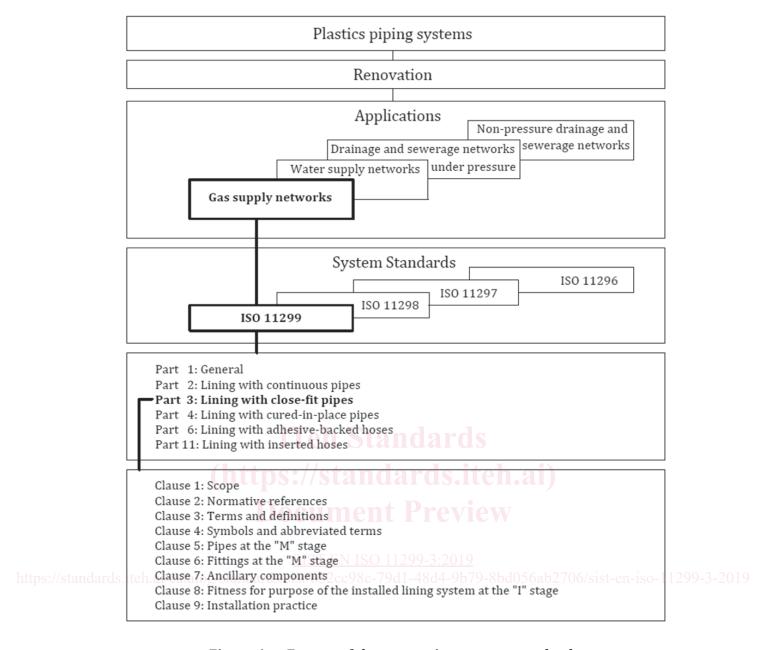


Figure 1 — Format of the renovation system standards

oSIST prEN ISO 11299-3:2018

## iTeh Standards (https://standards.iteh.ai) Document Preview

SIST EN ISO 11299-3:2019