SLOVENSKI STANDARD
SIST EN ISO 15877-3:2009/oprA2:2021

01-januar-2021

Cevni sistemi iz polimernih materialov za napeljave z vročo in hladno vodo - Klorirani polivinilklorid (PVC-C) - 3. del: Fitingi - Dopolnilo A2 (ISO 15877-3:2009/DAM 2:2020)

Plastics piping systems for hot and cold water installations - Chlorinated poly(vinyl chloride) (PVC-C) - Part 3: Fittings - Amendment 2 (ISO 15877-3:2009/DAM 2:2020)

Kunststoff-Rohrleitungssysteme für die Warm- und Kaltwasser-installation - Chloriertes Polyvinylchlorid (PVC-C) - Teil 3: Formstücke - Änderung 2 (ISO 15877-3:2009/DAM 2:2020)

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Systèmes de canalisations en plastique pour les installations d'eau chaude et froide - Poly(chlorure de vinyle) chloré (PVC-C) - Partie 3: Raccords - Amendment 2 (ISO 15877-3:2009/DAM 2:2020)

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Ta slovenski standard je istoveten z: **EN ISO 15877-3:2009/prA2**

ICS:

23.040.45	Fitingi iz polimernih materialov	Plastics fittings
91.140.60	Sistemi za oskrbo z vodo	Water supply systems

SIST EN ISO 15877-3:2009/oprA2:2021 **en,fr,de**

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DRAFT AMENDMENT

ISO 15877-3:2009/DAM 2

ISO/TC **138**/SC **2** Secretariat: **SNV**

Voting begins on: **2020-11-26**

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

Part 3: Fittings

AMENDMENT 2

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

Partie 3: Raccords

AMENDEMENT 2

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ICS: 91.140.60; 23.040.45

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

Part 3: Fittings

AMENDMENT 2

Page 1, clause 2

Add the normative references

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 2768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications*

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ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method*

ISO 6509-1, *Corrosion of metals and alloys — Determination of dezincification resistance of copper alloys with zinc — Part 1: Test method*

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ISO 6509-2, *Corrosion of metals and alloys — Determination of dezincification resistance of copper alloys with zinc — Part 2: Assessment criteria*

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ISO 6957, *Copper alloys — Ammonia test for stress corrosion resistance*

Page 1, clause 2

Delete the normative reference

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

Page 2, 3.1.2.1

Replace the existing clause 3.1.2.1. with the new clause 3.1.2.1 below.

3.1.2.1
compression fitting
fitting with internal support in which the joint is made by screwing a union nut along a thread to compress a ring on the outside wall of the pipe and finally to cause a clamping of the pipe between the ring and the inner support of the fitting

Note 1 to entry: The fitting may be with or without sealing element.

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Page 3, 4.2

Replace the existing title of clause 4.2 with the new title below.

4.2 Plastics fitting material

Page 7, Table 1

Insert the following table footnote d to Vicat Softening Temperature.

[d] Test samples may be annealed prior to testing at conditions recommended by the manufacturer.

Page 8, Table 2

Insert the following table footnote d to Vicat Softening Temperature.

[d] Test samples may be annealed prior to testing at conditions recommended by the manufacturer.

Page 8, 4.5

Replace the existing clause 4.5 with the new clause below.

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4.5 Metallic fitting material

Metallic materials for fittings intended to be used with components conforming to ISO 15875 shall be either copper alloys or stainless steel alloys. The alloys shall be defined according to a standard or regulatory document.

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NOTE Examples for such standards and regulatory documents are listed in the bibliography.

For copper alloys, the fittings made thereof have to comply with the corrosion resistance requirements according to clause 7.4.

Page 9, 5.1

Replace the existing clause 5.1 with the new clause below.

5.1 Appearance

5.1.1 Appearance of plastic fittings

When viewed without magnification, the internal and external surfaces of fittings shall be smooth, clean and free from scoring, cavities and other surface defects to an extent that would prevent conformance with this standard. The material shall not contain visible impurities. Slight variations in appearance of the colour shall be permitted. Each end of a fitting shall be square to its axis.

5.1.2 Appearance of metal fittings

When viewed without magnification, the internal and external surfaces of fittings shall be clean, free from any residues from the production (e. g. free from cast sand, grease or release agent) and shall have no sharp edges or cracks.

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Page 9, 5.2

Replace the existing title of clause 5.2 with the new title below.

5.2 Opacity of plastic fittings

Page 9, 6.1, first sentence

Replace the existing 1st sentence of clause 6.1 with the new two sentences below.

Dimensions of plastic fittings shall be measured in accordance with ISO 3126.

Dimensions of metal fittings shall be measured in accordance with ISO 2768-1 and/or part 2.

Page 9, 6.2

Replace the existing title of clause 6.2 with the new title below.

6.2 Dimensions of plastic fittings

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Page 10, Table 3

Replace the existing Table 3 with the new Table 3 below, where larger dimensions (180 mm to 250 mm) have been added. The dimensions of 12 mm to 160 mm have been unchanged from the ISO 15877-3:2009 version.

Table 1 — Wall thicknesses of fitting bodies

Nominal diameter	Pipe series		
	S 6,3	S 5	S 4
d_n	Minimum wall thickness [a] e_{min}		
12	1,9	1,9	1,9
14	1,9	1,9	2,2
16	1,9	2,1	2,5
20	2,1	2,6	3,2
25	2,6	3,2	3,8
32	3,3	4,0	4,9
40	4,1	5,0	6,1
50	5,0	6,3	7,6
63	6,4	7,9	9,6
75	7,6	9,2	11,4
90	9,1	11,1	13,7
110	11,0	13,5	16,7
125	12,5	15,4	18,9
140	14,0	17,2	21,2
160	16,0	19,8	24,2
180	18,0	22,2	27,2
200	19,9	24,6	30,3
225	22,5	27,7	34,1
250	24,9	30,7	37,7

[a] The values are rounded up to the first place of the decimals (i.e. the nearest higher 0,1 mm).

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Page 12, Table 4

Replace the existing Table 4 with the new Table 4 below, where larger dimensions (180 mm to 250 mm) have been added. The dimensions of 12 mm to 160 mm have been unchanged from the ISO 15877-3:2009 version.

Table 4 — Calculated laying lengths (*Z*-lengths) and related tolerances of elbows, tees and couplers (double-sockets)

Dimensions in millimetres

Nominal diameter	Type of fitting					
	90° elbow	45° elbow	90° tee	45° tee		Double-socket
	Calculated *Z*-length and recommended deviations					
D_n	Z	Z	Z	Z	Z_1	Z
12	7 ±1	3,5 ±1	7 ±1	--	--	3 ±1
14	8 ±1	4 ±1	8 ±1	--	--	3 ±1
16	9 ±1	4,5 ±1	9 ±1	--	--	3 ±1
20	11 ±1	5 ±1	11 ±1	27 ±3	6^{+2}_{-1}	3 ±1
25	$13{,}5^{+1{,}2}_{-1}$	$6^{+1{,}2}_{-1}$	$13{,}5^{+1{,}2}_{-1}$	33 ±3	7^{+2}_{-1}	$3^{+1{,}2}_{-1}$
32	$17^{+1{,}6}_{-1}$	$7{,}5^{+1{,}6}_{-1}$	$17^{+1{,}6}_{-1}$	42^{+4}_{-3}	8^{+2}_{-1}	$3^{+1{,}6}_{-1}$
40	21^{+2}_{-1}	$9{,}5^{+2}_{-1}$	21^{+2}_{-1}	51^{+5}_{-3}	10^{+2}_{-1}	3^{+2}_{-1}
50	$26^{+2{,}5}_{-1}$	$11{,}5^{+2{,}5}_{-1}$	$26^{+2{,}5}_{-1}$	63^{+6}_{-3}	12^{+2}_{-1}	3^{+2}_{-1}
63	$32{,}5^{+3{,}2}_{-1}$	$14^{+3{,}2}_{-1}$	$32{,}5^{+3{,}2}_{-1}$	79^{+7}_{-3}	14^{+2}_{-1}	3^{+2}_{-1}
75	$38{,}5^{+4}_{-1}$	$16{,}5^{+4}_{-1}$	$38{,}5^{+4}_{-1}$	94^{+9}_{-3}	17^{+2}_{-1}	4^{+2}_{-1}
90	46^{+5}_{-1}	$19{,}5^{+5}_{-1}$	46^{+5}_{-1}	112^{+11}_{-3}	20^{+3}_{-1}	5^{+2}_{-1}
110	56^{+6}_{-1}	24^{+6}_{-1}	56^{+6}_{-1}	137^{+13}_{-4}	24^{+3}_{-1}	6^{+3}_{-1}
125	$63{,}5^{+6}_{-1}$	27^{+6}_{-1}	$63{,}5^{+6}_{-1}$	157^{+15}_{-4}	27^{+3}_{-1}	6^{+3}_{-1}
140	71^{+7}_{-1}	30^{+7}_{-1}	71^{+7}_{-1}	175^{+17}_{-5}	30^{+4}_{-1}	8^{+3}_{-1}
160	81^{+8}_{-1}	34^{+8}_{-1}	81^{+8}_{-1}	200^{+20}_{-6}	35^{+4}_{-1}	8^{+4}_{-1}
180	91^{+8}_{-1}	39^{+8}_{-1}	91^{+8}_{-1}	224^{+24}_{-8}	39^{+8}_{-1}	8^{+4}_{-1}
200	101^{+9}_{-1}	43^{+9}_{-1}	101^{+9}_{-1}	249^{+25}_{-8}	43^{+9}_{-1}	8^{+5}_{-1}
225	114^{+10}_{-1}	48^{+10}_{-1}	114^{+10}_{-1}	280^{+28}_{-9}	48^{+10}_{-1}	10^{+5}_{-1}
250	126^{+10}_{-1}	53^{+10}_{-1}	126^{+10}_{-1}	310^{+31}_{-10}	53^{+10}_{-1}	12^{+5}_{-2}

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