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**Cevni sistemi iz polimernih materialov za napeljave z vročo in hladno vodo - Polibuten (PB) - 5. del: Ustreznost sistema namenu - Dopolnilo A1 (ISO 15876-5:2017/DAM 1:2020)**

Plastics piping systems for hot and cold water installations - Polybutene (PB) - Part 5: Fitness for purpose of the system - Amendment 1 (ISO 15876-5:2017/DAM 1:2020)

Kunststoff-Rohrleitungssysteme für die Warm- und Kaltwasserinstallation - Polybuten (PB) - Teil 5: Gebrauchstauglichkeit des Systems - Änderung 1 (ISO 15876-5:2017/DAM 1:2020)

Systèmes de canalisations en plastique pour les installations d'eau chaude et froide - Polybutène (PB) - Partie 5: Aptitude à l'emploi du système - Amendement 1 (ISO 15876-5:2017/DAM 1:2020)

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**ICS:**

23.040.20	Cevi iz polimernih materialov	Plastics pipes
91.140.60	Sistemi za oskrbo z vodo	Water supply systems

**SIST EN ISO 15876-5:2017/oprA1:2020 en**

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# DRAFT AMENDMENT

## ISO 15876-5:2017/DAM 1

ISO/TC 138/SC 2

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## Plastics piping systems for hot and cold water installations — Polybutene (PB) —

### Part 5: Fitness for purpose of the system

### AMENDMENT 1

*Systèmes de canalisations en plastique pour les installations d'eau chaude et froide — Polybutène (PB) —*

*Partie 5: Aptitude à l'emploi du système*

*AMENDEMENT 1*

ICS: 91.140.60; 23.040.20

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This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, Plastics piping systems and ducting systems, in collaboration with ISO Technical Committee ISO/TC 138, Plastics pipes, fittings and valves for the transport of fluids, Subcommittee SC 2, Plastics pipes and fittings for water supplies, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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# Plastics piping systems for hot and cold water installations — Polybutene (PB) —

## Part 5: Fitness for purpose of the system

### AMENDMENT 1

Page 1, Scope, third paragraph

Replace the second sentence with the following:

For values of  $T_D$ ,  $T_{max}$  and  $T_{mal}$  in excess of those in ISO 15876-1:2017, Table 1, this document does not apply.

Page 6, [Table 7](#)

Replace [Table 7](#) with the new [Table 7](#) below.

**Table 7 — Test parameters for thermal cycling**

	Application class			
	Class 1	Class 2	Class 4	Class 5
Maximum design temperature, $T_{max}$ , in °C	80	80	70	90
Highest test temperature, in °C	90	90	80	95
Lowest test temperature, in °C	20	20	20	20
Test pressure, in bars	$p_D$	$p_D$	$p_D$	$p_D$
Number of cycles for $d_n \leq 160$ mm <sup>a</sup>	5 000	5 000	5 000	5 000
Number of cycles for $d_n > 160$ mm <sup>b</sup>	500	500	500	500
Number of test pieces	One set of fittings in accordance with the configuration shown in ISO 19893 <sup>c</sup>			
<p><sup>a</sup> Each cycle shall comprise <math>15^{+1}_0</math> min at the highest test temperature and <math>15^{+1}_0</math> min at the lowest (i.e. the duration of one cycle is <math>30^{+2}_0</math> min).</p> <p><sup>b</sup> Each cycle shall comprise <math>150^{+5}_0</math> min at the highest test temperature and <math>150^{+5}_0</math> min at the lowest (i.e. the duration of one cycle is <math>300^{+10}_0</math> min).</p> <p><sup>c</sup> The test arrangement consists of min. 4 pipe connectors or min. 6 pipe connections for <math>d_n &gt; 160</math> mm. The free pipe length between the joints shall not be less than 150 mm. A representative set of fittings shall be used in the assembly.</p>				

## ISO 15876-5:2017/DAM 1:2020(E)

Page 7, [Table 8](#)Replace [Table 8](#) with the new [Table 8](#) below.**Table 8 — Test parameters for pressure cycling**

Characteristics	Requirement	Test parameters		Test method	
Pressure cycling	No leakage	Test temperature	23 °C		ISO 19892
		Number of test pieces	3		
			$d_n \leq 160$ mm	$d_n > 160$ mm	
		Frequency (cycles/min)	$(30 \pm 5)$	$(15 \pm 3)$	
		Number of cycles	10 000	5 000	
		Test pressure limits for a design pressure of:	Upper limit	Lower limit	
4 bar	6,0 bar	0,5 bar			
6 bar	9,0 bar	0,5 bar			
8 bar	12,0 bar	0,5 bar			
10 bar	15,0 bar	0,5 bar			

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