

Third edition
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AMENDMENT 1
2015-12-15

**Injection containers and
accessories —**

**Part 1:
Injection vials made of glass tubing**

AMENDMENT 1

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Réipients et accessoires pour produits injectables —

Partie 1: Flacons en verre étiré

AMENDEMENT 1

ISO 8362-1:2009/Amd 1:2015

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The committee responsible for this document is ISO/TC 76, *Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use*.

[ISO 8362-1:2009/Amd 1:2015](#)

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Injection containers and accessories —

Part 1:

Injection vials made of glass tubing

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Page 2, [Table 1](#)

Replace the existing [Table 1](#) by the following one, where injection vials of the sizes 50R and 100R have been added and the masses of all injection vials have been amended.

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Table 1 — Dimensions, overflow capacity and mass

Size designation of injection vial	Overflow capacity ml	a mm	d ₁ mm	d ₂ mm +0,2 -0,3	d ₃ mm max.	d ₄ mm ± 0,2	h ₁ mm	h ₂ mm min.	h ₃ mm	r ₁ mm ≈	r ₂ mm ≈	s ₁ mm	s ₂ mm min.	t mm max.	Mass ^{a,b} g ≈
2R	4	1	16	±0,15	13	10,5	35	22	8	2,5	1,5		0,6		4,4
4R	6					7	45	32							5,7
6R	10						40	26	8,5	3,5	2	1	±0,04	0,7	7,9
8R	11,5				16,5		45	31							8,7
10R	13,5	1,2	22	±0,2			45	30	9	4,0					9,5
15R	19		24			12,6	60	45							12,0
20R	26			20			55	35							16,2
25R	32,5	1,5	30	±0,25	17,5		65	45	±0,75	5,5	2,5	1,2	±0,05	1	18,9
30R	37,5						75	55	10						21,9
50R	62	2,5	40	±0,4	20	17,5 ^c	73	49	±0,75	6,0	4,0	1,5	±0,07	1,5	34,5
100R	123	3,5	47	±0,5	20	17,5 ^c	100	75	±0,75	6,5	4,0	1,7	±0,07	1,5	60,0

^a Mean values that can deviate about 10 %.

^b The mass specifications apply to injection vials made of colourless borosilicate glass having a linear expansion coefficient of $5,1 \times 10^{-6}$ K⁻¹ and a density of 2,34 g/cm³. The mass of vials made of other glass types (e.g. amber glass or borosilicate glass 3.3) needs to be calculated using the density of the particular glass.

^c With blow back Type B: 17,7 mm. The slightly larger diameter is necessary due to the different hot-forming process with more glass mass having to be formed.

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