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AMENDMENT 1
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**Injection containers and
accessories —**

Part 1:
Injection vials made of glass tubing
AMENDMENT 1

Réipients et accessoires pour produits injectables —

Partie 1: Flacons en verre étiré

AMENDEMENT 1



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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*.

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Injection containers and accessories —

Part 1:

Injection vials made of glass tubing

AMENDMENT 1

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.

Table 1 — Dimensions, overflow capacity and mass

Size designation of injection vial	Overflow capacity ml	d_1 mm	d_2 mm +0,2 -0,3	d_3 mm max.	d_4 mm $\pm 0,2$	h_1 mm tol.	h_2 mm min.	h_3 mm tol.	r_1 mm $\approx$	r_2 mm $\approx$	s_1 mm tol.	s_2 mm min.	t mm max.	Mass ^{a,b} $\approx$
2R	4	1	16	10,5	7	35	22	8	2,5	1,5		0,6		4,4
4R	6		13			45	32							5,7
6R	10					40	26	8,5	3,5	2	1	0,7		7,9
8R	11,5	1,2		16,5		45	31							8,7
10R	13,5					45	30	9	4,0					9,5
15R	19		20		12,6	60	45					0,7		12,0
20R	26					55	35							16,2
25R	32,5	1,5		17,5 ^c		65	45	10	5,5	2,5	1,2	$\pm 0,05$	1	18,9
30R	37,5					75	55							21,9
50R	62	2,5	40	20	12,6	73	49	10	6,0	4,0	1,5	$\pm 0,07$	1,5	34,5
100R	123	3,5	47	20	12,6	100	75	10	6,5	4,0	1,7	$\pm 0,07$	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 $5,1 \times 10^{-6} \text{ K}^{-1}$ and a density of $2,34 \text{ g/cm}^3$. 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.