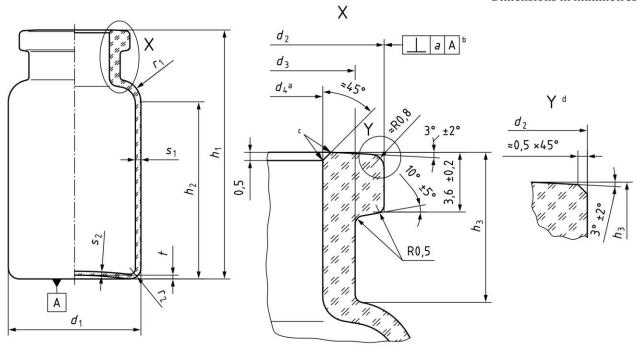
Dimensions in millimetres



- The opening of the vial should have a constant diameter, over the entire distance, h_3 , i.e. it should exhibit a cylindrical shape. A slightly conical shape can be accepted if the following requirements are fulfilled:
 - the truncated cone has the height h_3 ;
 - the larger diameter is located at the flange or as agreed upon;
 - the larger diameter does not exceed the smaller one by more than 0,3 mm.
- The perpendicularity tolerance *a* (as defined in ISO 1101) is a limit for the deviation of the plumb-line through the centre of the bottom part and the axis of the vial at the upper edge of the flange; it is measured at the brim.
- c Edges slightly rounded.
- d \approx R0,8 (a chamfer shaped with \approx 45° is alternatively also feasable).

Figure 1 — Typical example of injection vial made of glass tubing containing a neck finish without blow back — Model A

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 ${\bf Table~1-Dimensions, brimful~capacity~and~mass}$

Size designa- tion of injection	Brimful capacity ml		a mm	10000	d ₁ mm		d ₃ mm max.	d ₄ mm ±0,2	h ₁ mm		h ₂ mm min.	5-25	n ₃ im	r ₁ mm ≈	r ₂ mm ≈	s ₁ mm		s ₂ mm min.	t mm max.	Mass a,b ≈
vial		tol			tol.	-0,3				tol.			tol.				tol.			
_2R	4		1	16	±0,15	13	10,5	7	35	±0,5	22			2,5	1,5	1	±0,04	0,6		4,4
[®] 3R	5								40		27	8								5,5
4R	6	±0,5							45		32									5,7
<u>is</u> 56R	10		1,2	22	±0,2		16,5		40		26	8,5	±0,5	3,5					0,7	7,9
St ₹8R	11,5								45		31	0,5		4,0					8,7	
₫0R	13,5	±1		24					43		30	. 9			2			0,7		9,5
15R	19	±1							60		45	9								12,0
○ 20R	26				±0,25	20	17,5	12,6	55	±0,7	35			5,5	2,5	1,2	±0,05		1	16,2
8 25R	32,5	±1,5	1,5	30					65		45									18,9
30R	37,5								75		55	10	±0,75							21,9
50R	62	±4 ±7	2,5	40	±0,4	- 1	17,5¢		73	±0,75	49			6,0	4,0	1,5	±0,07	0,9	1,5	34,5
₹ 100R	123		3,5	47	±0,5				100		75			6,5		1,7				60,0

Mean values that can deviate about 10 %.

The mass specifications apply to injection vials made of colourless borosilicate glass having a linear expansion coefficient of 5,1 × 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.

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.