

General tolerances

Lenz Laborglas GmbH & Co. KG

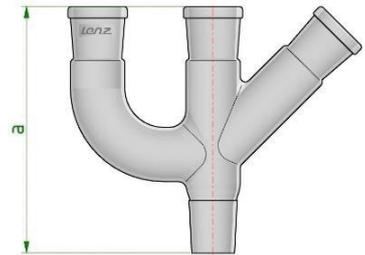
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General tolerances for Lenz® laboratory glass instruments

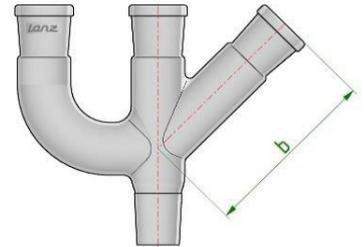
Tolerances for the total length (a)

up to 10	up to 100	up to 400	> 400
± 1,0	± 2,0	± 5,0	± 10,0



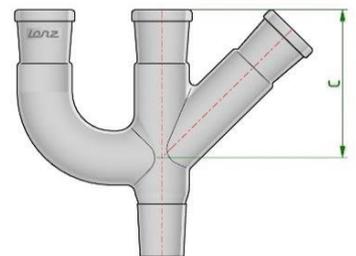
Length tolerances for side arms (b)

up to 10	> 10 – 30	> 30 – 100	> 100
± 1,0	± 3,0	± 5,0	± 8,0



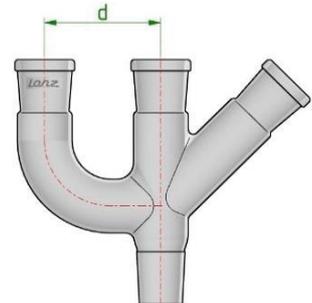
Tolerances for side arm position (c)

up to Ø 16	up to Ø 34	> Ø 34
± 2,0	± 3,0	± 5,0



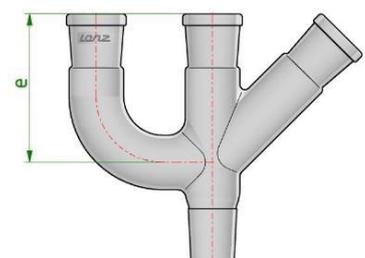
Tolerances for bended side arm – axle distance (d)

	up to 30	up to 100	> 100
up to Ø 16	± 3,0	± 4,0	± 5,0
up to Ø 34	x	± 5,0	± 6,0
up to Ø 60	x	± 6,0	± 8,0
> Ø 60	x	x	± 10,0



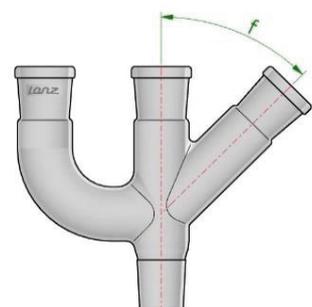
Length tolerances for bended side arm (e)

up to 30	> 30
± 2,0	± 3,0



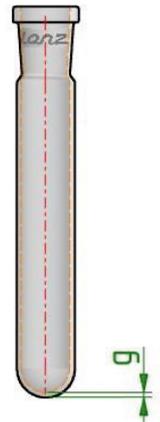
Angle tolerances (f)

up to 10°	> 10°
± 2°	± 3°



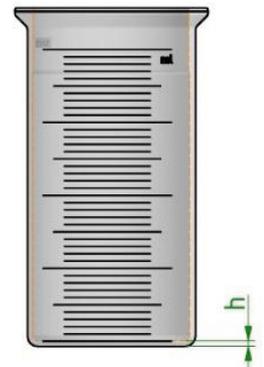
Wall thickness tolerances for round bottom / dished bottom (g)

Nennwand.	up to Ø 20	up to Ø 50	up to Ø 100	up to Ø 250	> Ø 250
up to 1,5	- 0,5 / + 1,0	- 0,5 / + 1,2	- 0,5 / + 1,4	x	x
up to 3,0	- 0,5 / + 1,0	- 0,5 / + 1,2	- 0,8 / + 1,5	- 0,8 / + 2,5	x
up to 5,0	x	- 0,5 / + 1,5	- 1,5 / + 2,0	- 1,5 / + 2,5	- 1,5 / + 2,5
up to 7,0	x	x	- 1,5 / + 2,0	- 1,5 / + 2,5	- 1,5 / + 2,5
up to 9,0	x	x	x	- 1,5 / + 2,5	- 1,5 / + 2,5



Wall thickness tolerances for flat bottom (h)

Nennwand.	up to Ø 20	up to Ø 50	up to Ø 100	up to Ø 200	> Ø 200
up to 1,5	- 0,5 / + 1,0	- 0,5 / + 1,2	- 0,5 / + 1,4	x	Borofloat
up to 3,0	- 0,5 / + 1,0	- 0,5 / + 1,2	- 0,8 / + 1,5	- 0,8 / + 2,5	Borofloat
up to 5,0	x	- 0,5 / + 1,5	- 1,5 / + 2,0	- 1,5 / + 2,5	Borofloat
up to 7,0	x	x	- 1,5 / + 2,0	- 1,5 / + 2,5	Borofloat
up to 9,0	x	x	x	x	Borofloat



Rounding radius tolerances and chamfer height (r)

up to 1	> 1 up to 3	> 3 - 6	> 6 - 30	> 30
- 0,5 / + 1,0	± 1,0	± 2,0	± 3,0	± 5,0

