Tolerances for Capillaries

One end closed, one end funnel formed, made of Special Glass 10, Glass Number 50, and Quartz

Length	**Wall thickess**	**Diameter**
overall tolerance ± 5 mm	overall tolerance ± 0,01 mm	
Point of messuring : total length messuring instrument : digital sliding caliper	Point of messuring : about 30-40 mm from the bottom to the end messuring instrument : Digital Microskop BMA 300 10x magnfi.	Point of messuring : about 30-40 mm from the bottom to the end messuring instrument : Laser Micrometer LS 7500

Diameter	**Tolerance**	**Minimum Diameter**	**Maximum diamater**	**Tube base size (OD x Wall thickness)**		
				Special Glass 10 (soda lime glass)	**Glass Number 50 (borosilicate)**	**Quartz**
0,1 mm	± 0,05 mm	0,05 mm	0,15 mm	3,0 ± 0,15 x 0,171 ± 0,10 mm	3,0 ± 0,15 x 0,13 ± 0,10 mm	3,0 ± 0,20 x 0,20 ± 0,15 mm
0,2 mm	± 0,05 mm	0,15 mm	0,25 mm			
0,3 mm	± 0,05 mm	0,25 mm	0,35 mm			
0,4 mm	± 0,05 mm	0,35 mm	0,45 mm			
0,5 mm	± 0,05 mm	0,45 mm	0,55 mm			
0,6 mm	± 0,05 mm	0,55 mm	0,65 mm			
0,7 mm	± 0,05 mm	0,65 mm	0,75 mm			
0,8 mm	± 0,05 mm	0,75 mm	0,85 mm			
0,9 mm	± 0,05 mm	0,85 mm	0,95 mm			
1,0 mm	- 0,05 / + 0,25 mm	0,95 mm	1,25 mm			
1,5 mm	± 0,25 mm	1,25 mm	1,75 mm			
2,0 mm	± 0,25 mm	1,75 mm	2,25 mm			
2,5 mm	± 0,25 mm	2,25 mm	2,75 mm			
3,0 mm	± 0,25 mm	2,75 mm	3,25 mm	About 3,75 x 0,1 mm	About 4,7 x 0,22 mm	About 4,4 x 0,25 mm
3,5 mm	± 0,25 mm	3,25 mm	3,75 mm			
4,0 mm	± 0,25 mm	3,75 mm	4,25 mm	About 3,75 x 0,1 mm blown up to larger size !!!	About 4,7 x 0,22 mm blown up to larger size !!!	About 6,0 x 0,25 mm
5,0 mm	± 0,25 mm	4,25 mm	5,25 mm			