

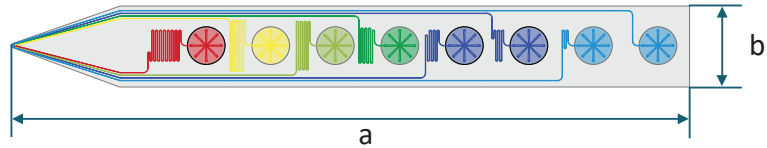


BioPen® FLEX Tip Specifications

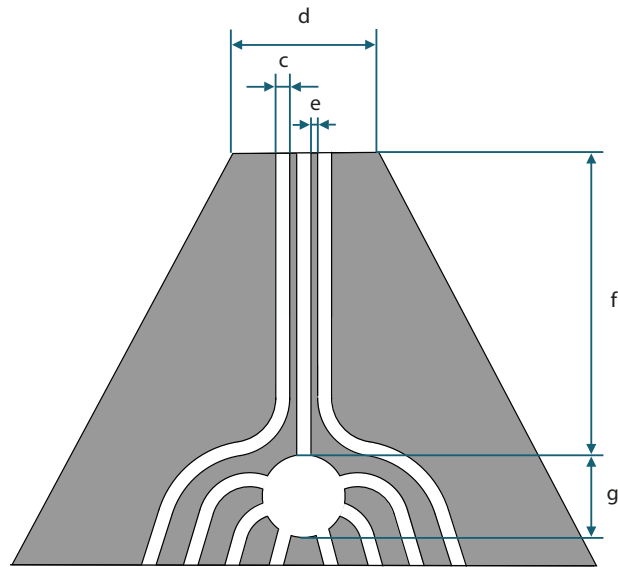
BioPen® tip parameters	
Length	67.5 mm (a)
Width	10 mm (b)
Number of deliverable solutions	4
Reservoir volume	35 µL
Tip width	450 µm (d)
Channel size	30×30 µm (c)
Channel-channel separation at the tip	15 µm (e)
Channel-bottom separation at the tip	15 µm
Distance from tip to switching point	1.3 mm (f)
Switching point diameter	150 µm (g)
Exposure length	40 (h)-150 (k) µm
Exposure width	90 (i)-110 (j) µm
Exposure volume	0.1-1 nL

Flow setting parameters	Standard	Sleep
P_{on} (mbar)	215	0
P_{off} (mbar)	30	11
V_{switch} (mbar)	-135	-55
V_{recirc} (mbar)	-135	-55

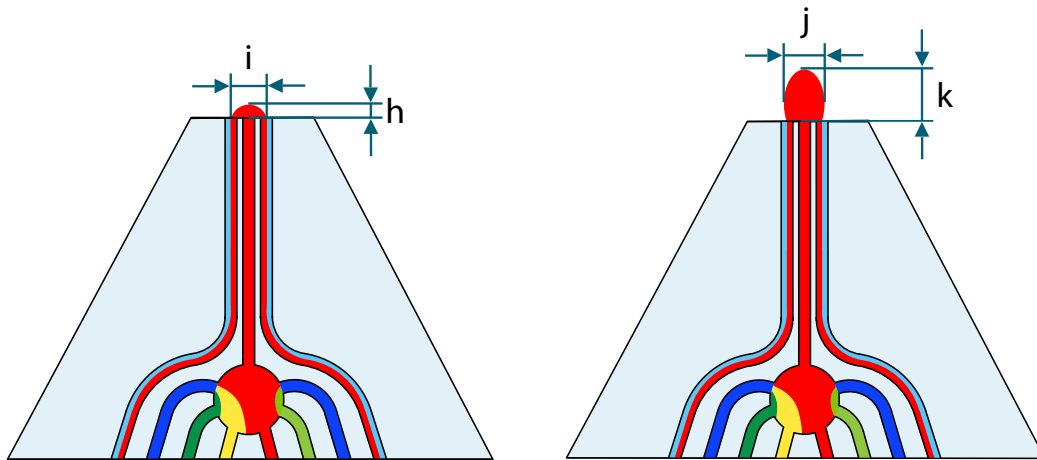
Tip run time		Standard	Sleep
Based on waste well filling time	Flow rate (nL/s)	14	6
	Duration (min)	80	195
Based on solution use	Duration when active (min)	50	-
	Duration in standby (min)	310	880



BioPen® FLEX tip schematics



BioPen® FLEX tip schematics



BioPen® FLEX tip exposure zones