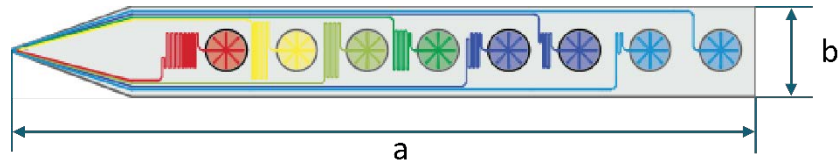


BioPen[®] FLEX Tip Specifications

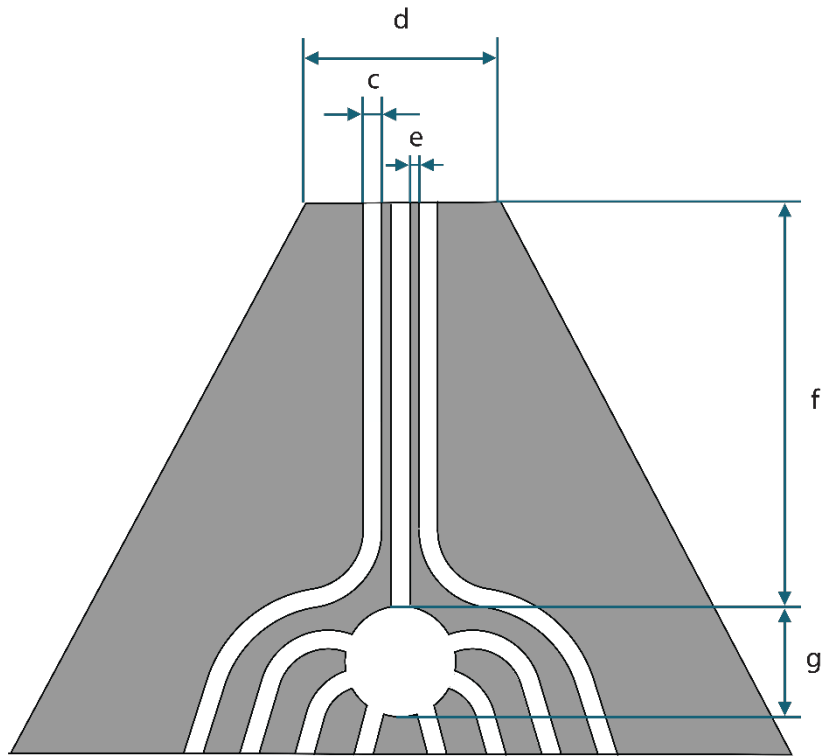
BioPen tip parameters	
Length	67.5 mm (a)
Width	10 mm (b)
Number of deliverable solutions	4
Reservoir volume	35 μ L
Tip width	450 μ m (d)
Channel size	30*30 μ m (c)
Channel-channel separation at the tip	15 μ m (e)
Channel-bottom separation at the tip	15 μ m
Distance from tip to switching point	1.3 mm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

Flow setting parameters		
State	Standard	Sleep
P _{on} (mbar)	215	0
P _{off} (mbar)	30	11
V _{switch} (mbar)	-135	-55
V _{recirc} (mbar)	-135	-55

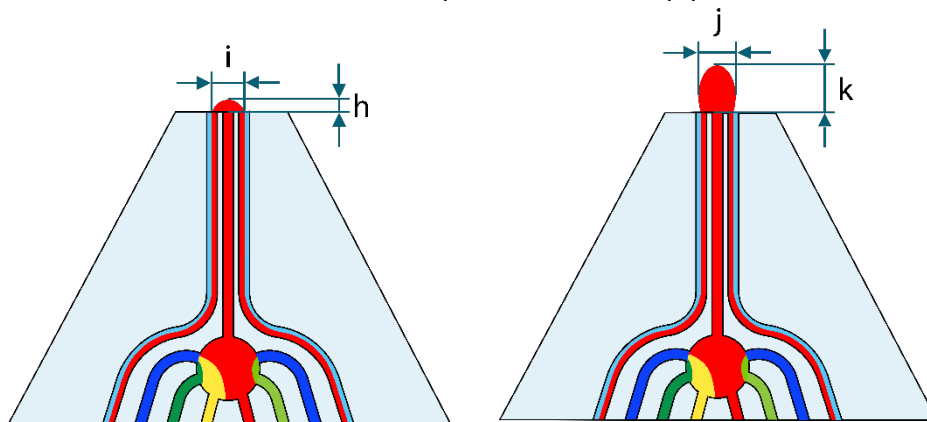
Tip run time			
State		Standard	Sleep
Based upon waste wells filling	Flow rate (nL/s)	14	6
	Duration (min)	80	195
Based upon solution usage	Duration in Active (min)	50	-
	Duration in Standby (min)	310	880



Schematics of BioPen FLEX pipette



Schematics of the tip of BioPen FLEX pipette



BioPen FLEX pipette exposure zone size