

# PRECAUTIONS : When using the long tip or extra-long tip

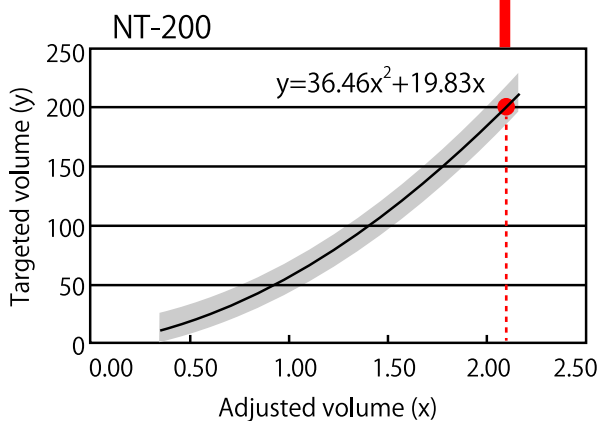
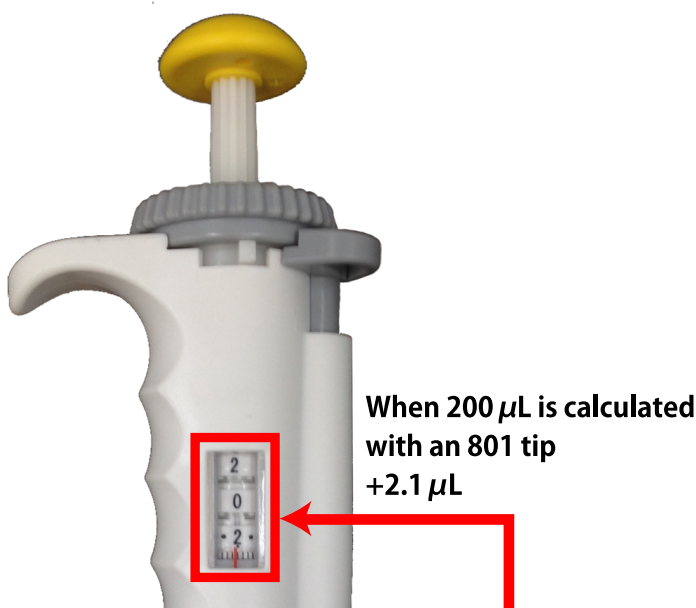
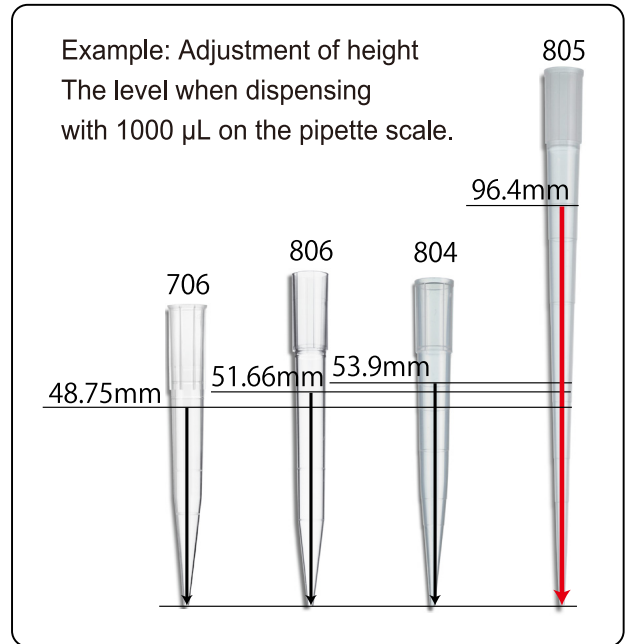
The liquid is affected by pressure, dependent on the size/length of the tip. Therefore when you use a certain pipette in combination with a long tip, it is necessary to adjust the scale on the pipette tip's height (=height of sample) in accordance to the level to which liquid has been drawn in. If an 801\* tip (250 µL) or an 805\*\* tip (1200 µL) is used, it is necessary to make adjustments to the scale by referring to the adjustment values shown in the below figure.

(Values obtained with the formula remain approximate.)

**Note: The shape/size of the following tips is identical.**

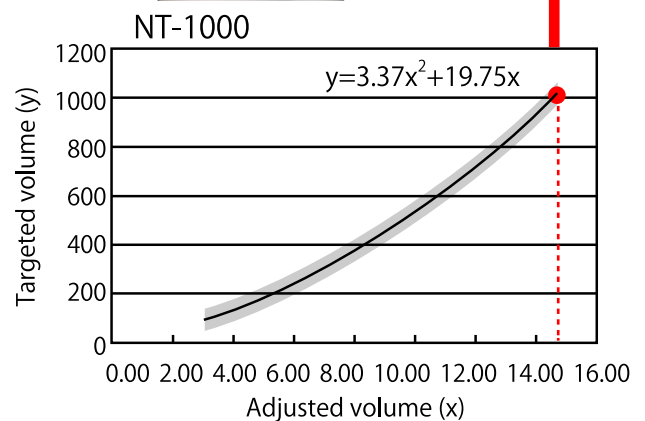
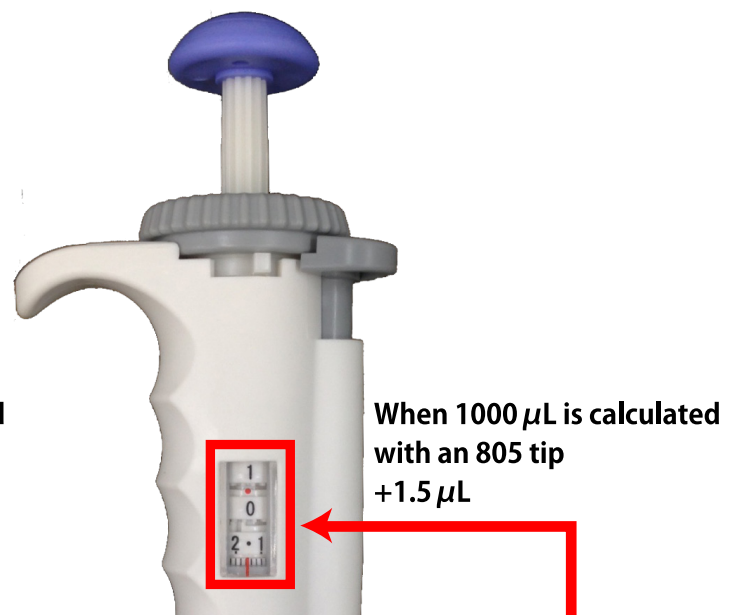
\*Tip # 801: Tip # 200XS series

\*\*Tip # 805: Tip # 1200S series



**Formula to calculated adjusted volume**

$$x = \frac{-19.83 + \sqrt{19.83^2 + 4 \times 36.46y}}{2 \times 36.46}$$



**Formula to calculated adjusted volume**

$$x = \frac{-19.75 + \sqrt{19.75^2 + 4 \times 3.37y}}{2 \times 3.37}$$

Note: No adjustment is necessary for the tip # 502, 706, 804, or 806.