Four Common Hassles With Volumetric/Graduated Pipettes — And How A&D Can Solve Them

- 1. Accuracy and reproducibility depend on the visual judgment of researchers/workers.
- 2. It is time-consuming and tiring to aspirate precisely using a safety pipette filler or mouth.
- 3. Novices often have to work extra hours failing and retrying many times (and increasing labor cost).
- 4. The long tubes have to be washed and dried thoroughly after use, which is troublesome.

The first-ever glass tips to be used with electronic pipettes



AX-GL glass tips

MPA series of electronic pipettes (with standard tips)

It may be obvious that the problems described above are easily solved by electronic pipettes, but there are kinds of research (such as the analysis of endocrine disruptors) for which standard pipette tips, typically made of polypropylene, are inappropriate as chemical substances may be eluted from them. This is why A&D recommends...

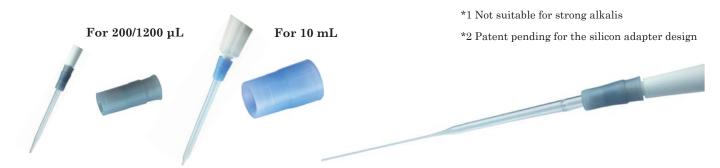
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AX-GL glass tips with the MPA series of electronic pipettes

- The tips are made of borosilicate glass type 1 (as with normal volumetric/graduated pipettes) and resistant to organic solvents and acidic liquids.*1
- With automatic plunger control, dispensed quantities will be consistently accurate regardless of who uses the pipette.
- Time and labors required for pipetting will be dramatically reduced.
- Even the inexperienced can perform accurate pipetting right away. No mistakes or do-overs.
- Reverse operation is possible to dispense viscous samples accurately.
- The tips are easily washable and can also be put in an ultrasonic bath in bulk if you want.
- Both the tips and the silicon adapters that connect the tips to the pipettes*2 can be autoclaved (121°C, 2 atm, 20 minutes).
- The silicon adapter for 200/1200 µL can also hold off-the-shelf Pasteur pipettes (of Ø7 mm outer diameter) to aspirate samples in test tubes or bottles with narrow mouths such as Ampoule pots.



AX-ADP silicon adapters

Silicon adapter holding a Pasteur pipette

Available sets

10 glass tips + 2 silicon adapters (gray) for the MPA-200/1200 AX-GL-200/1200 AX-GL-10M 10 glass tips + 2 silicon adapters (blue) for the MPA-10000

AX-ADP-200/1200 10 silicon adapters (gray) for the MPA-200/1200 10 silicon adapters (blue) for the MPA-10000 AX-ADP-10ML

Glass tip		AX-GL-200/1200				AX-GL-10ML		
Pipette		MPA-200		MPA-1200		MPA-10000		
Performance	Volume	50 μL	$200~\mu L$	100 μL	1200 μL	1 mL	5 mL	10 mL
	Accuracy	$\pm 5.0\%$	±3.0%	±5.0%	±1.0%	±5.0%	±2.0%	±1.0%
	Repeatability (CV)	2.0%	0.3%	3.0%	0.3%	3.0%	1.5%	0.3%
Dimensions	Glass tip	Length: 112 mm / Outer diameter 7 mm				Length: 168 mm / Outer diameter 13 mm		
	Silicon adapter	Length: 30 mm				Length: 36 mm		



...Clearly a Better Value

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