

# Corrosion Resistant Pfa Bottle Top Dispenser Translucent Squeeze Liquid Extraction System For Ultra Pure Chemical Handling

Item Number: PL-CP300



## Introduction

High-purity PFA bottle-top dispensers offer exceptional chemical resistance and translucent visibility for safe squeeze extraction. Ideal for trace analysis and corrosive fluid handling, these custom-engineered systems ensure clean, precise liquid delivery without risk of external contamination or manual operator spills.

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Application	Description	Key Benefit
Trace Metal Analysis	Extraction of high-purity acids for sample digestion in environmental and geological studies.	Prevents leaching of trace contaminants into sensitive samples.
Semiconductor Wet Processing	Precise dispensing of ultra-pure etchants and cleaning agents in cleanroom environments.	Maintains chemical purity essential for microchip yield.
Hydrofluoric Acid Handling	Safe transfer and dispensing of HF for glass etching or metallurgical analysis.	Superior resistance to HF where glass and stainless steel fail.
Pharmaceutical Synthesis	Metering of reactive organic solvents and reagents in drug development laboratories.	Ensures bio-inertness and prevents cross-contamination.
Battery Research	Handling of electrolytes and corrosive additives in lithium-ion and next-gen battery testing.	Resilience against the aggressive chemistry of battery components.
Environmental Monitoring	Field and lab extraction of water or soil samples for pollutant detection.	Robustness for both laboratory and rigorous field use.
Petrochemical Testing	Dispensing of aromatic hydrocarbons and volatile solvents for fuel analysis.	High resistance to swelling or degradation by organic solvents.
Specialty Chemical Production	Transfer of small-batch high-value reagents in chemical manufacturing plants.	Maximizes recovery and minimizes waste of expensive chemicals.

Parameter Group	Specification Detail	Model/Reference
<b>Core Identification</b>	<b>Item Number</b>	<b>PL-CP300</b>
<b>Material Science</b>	Primary Material	High-Purity Perfluoroalkoxy (PFA)
	Secondary Components	Welded PFA Fittings and Tubing
<b>Chemical Performance</b>	Corrosion Resistance	Universal (Acids, Bases, Solvents, HF)
	Leaching Profile	Ultra-low trace metal background (PPT Grade)
<b>Operational Design</b>	Extraction Method	Squeeze-based pressure displacement
	Visibility	Translucent / Semi-transparent
	Joint Construction	Permanent Fusion Welding
<b>Customization Range</b>	Volume Capacities	Fully customizable based on client requirements
	Closure Sizes	Custom CNC machined to fit any bottle thread

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	Tube Lengths	Adjustable/Customizable for varied bottle depths
<b>Environmental Limits</b>	Operating Temperature	Wide range (Customizable per application)
	Pressure Rating	Optimized for manual squeeze dispensing