

# Custom Ptfе Constant Pressure Separatory Dropping Funnel Corrosion Resistant Low Background Labware Trace Analysis Dropping Funnel

Item Number: PL-CP67



## Introduction

High-purity PTFE constant pressure separatory dropping funnels for precision fluid control in trace analysis. These corrosion-resistant units feature ultra-low background levels and integrated pressure equalization, ensuring reliable addition of aggressive reagents in demanding industrial laboratory environments.

[Learn More](#)

Application	Description	Key Benefit
Trace Metal Analysis	Controlled addition of high-purity acids and reagents in environmental testing.	Prevents leaching of boron, silicon, and alkali metals common in glass.
Semiconductor Etching	Handling and dispensing of hydrofluoric acid and other aggressive etching solutions.	Superior resistance to fluorinated compounds that would dissolve glass.
Pharmaceutical Synthesis	Precision dosing of catalysts and reactants in multi-step organic synthesis.	Eliminates cross-contamination and ensures reaction purity for API production.
Battery Research	Handling of corrosive electrolytes and lithium-ion battery precursors in an inert atmosphere.	Maintains airtight seal integrity and chemical stability during sensitive testing.
Petrochemical Testing	Volumetric addition of solvents and reagents in high-temperature hydrocarbon analysis.	Excellent thermal stability and resistance to a wide range of organic compounds.
Fine Chemical Production	Small-scale production of high-value specialty chemicals requiring controlled flow rates.	Consistent drop-wise addition improves reaction yield and safety control.
Hydrothermal Synthesis	Reagent preparation and transfer for high-pressure and high-temperature material science.	Maintains structural integrity under extreme thermal cycling and chemical stress.

Feature	Specification Details for PL-CP67
<b>Material</b>	100% Virgin High-Purity PTFE (Polytetrafluoroethylene)
<b>Standard Volume Range</b>	50ml (Custom volumes available from 10ml to 5000ml)
<b>Control Mechanism</b>	Precision CNC-machined PTFE Stopcock (Vacuum-rated)
<b>Pressure Balancing</b>	Integrated side-arm pressure equalization tube
<b>Connection Types</b>	Customizable: Tapered Joints (NS/ST), Threaded (GL), or Flanged
<b>Operating Temperature</b>	-200°C to +260°C (-328°F to +500°F)
<b>Chemical Resistance</b>	Excellent (Compatible with all acids, bases, and solvents)
<b>Purity Grade</b>	Trace analysis grade with extremely low extractable background
<b>Fabrication Method</b>	End-to-end custom CNC machining for non-standard requirements

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<b>Transparency</b>	Naturally opaque/white (Translucent PFA options available on request)	