

High Purity Ptfе Ultrapure Liquid Sampler For Acid Extraction And Reactor Sampling Customizable Dimensions

Item Number: PL-CP204



Introduction

Secure high-purity acid samples with our corrosion-resistant PTFE liquid samplers. Engineered for large 200L reactors, these customizable tools ensure zero contamination and absolute chemical inertness in critical industrial and laboratory trace analysis workflows throughout your entire facility and complex systems.

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Application	Description	Key Benefit
Semiconductor Acid Sampling	Extracting high-purity hydrofluoric and sulfuric acids from large supply reactors for wafer cleaning analysis.	Prevents trace metal contamination that could ruin wafer yields.
Pharmaceutical Synthesis	Sampling corrosive intermediates and aggressive reagents during the production of active pharmaceutical ingredients (APIs).	Ensures product purity and compliance with strict FDA/GMP standards.
Environmental Trace Analysis	Gathering liquid samples from large digestion tanks containing environmental waste or industrial runoff.	Accurate recovery of metal ions without wall-adsorption losses.
Battery Material Research	Handling electrolytes and acidic slurry samples during the development of lithium-ion and advanced battery chemistries.	Chemical resistance to highly reactive and fluorinated electrolytes.
Petrochemical Refining	Sampling aggressive organic solvents and catalyst-rich mixtures from pilot-scale 200L reactors.	Durable performance in high-temperature, high-corrosion environments.
Specialty Chemical Production	Quality control sampling for high-purity reagents used in laboratory consumables and analytical standards.	Maintains the integrity of the bulk product during routine testing.

Specification Category	Parameter Details for PL-CP204
Model Identifier	PL-CP204
Primary Material	Virgin PTFE (Polytetrafluoroethylene) or High-Purity PFA
Reactor Compatibility	Optimized for 200L reactors; adaptable to all vessel sizes
Dimensions (Length/OD)	Fully Customizable (Bespoke CNC machining to user specification)
Sampling Volume	Customizable (Defined at the time of order)
Temperature Resistance	-200°C to +260°C (-328°F to +500°F)
Chemical Compatibility	Universal (pH 0-14, including strong oxidizers and organic solvents)
Surface Finish	High-precision smooth CNC finish to minimize sample retention
Handle Design	Custom ergonomic grip or automated interface mountable
Certifications	Material purity data available upon request