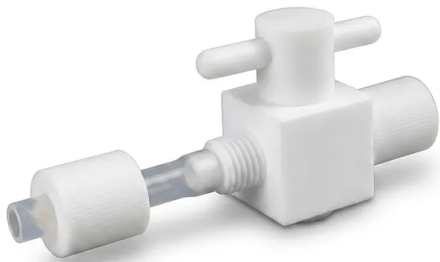


High Purity Pfa Flared Globe Valve Custom Two Way Three Way Reducing Ptfе Valve Heavy Metal Free

Item Number: PL-CP376



Introduction

Premium PFA flared globe valves for high-purity fluid control provide zero heavy metal precipitation and maximum chemical resistance. Custom two-way and three-way configurations ensure leak-free performance in demanding semiconductor, pharmaceutical, and specialized laboratory chemical processing environments.

[Learn More](#)

Application	Description	Key Benefit
Semiconductor Wet Etching	Transporting ultra-pure acids for wafer cleaning and etching processes.	Prevents trace metal contamination and resists aggressive etchants.
Pharmaceutical Synthesis	Controlling the flow of corrosive reagents in active pharmaceutical ingredient (API) production.	Ensures product purity and regulatory compliance with non-leaching materials.
Trace Element Analysis	Sample preparation and fluid handling for ICP-MS and other sensitive analytical techniques.	Eliminates background interference caused by heavy metal precipitation.
Solar Cell Manufacturing	Handling hazardous chemicals used in the production of photovoltaic panels.	Long-term reliability in continuous high-volume chemical processing.
Specialty Chemical Distribution	Managing the bulk transfer of high-purity reagents from storage to point-of-use.	Zero-leakage connections reduce chemical waste and improve safety.
Laboratory Scale Reactors	Custom fluid control in hydrothermal or microwave-assisted synthesis setups.	High temperature and pressure resistance tailored to specific research needs.
Environmental Monitoring	Sampling of aggressive groundwater or industrial effluents for chemical characterization.	Maintains sample integrity by preventing adsorption or contamination.

Feature	Specification Details (PL-CP377 Series)
Base Model Number	PL-CP377
Construction Material	High-Purity PFA / PTFE (Customer Specified)
Valve Type	Flared Globe Valve (Manual or Pneumatic)
Flow Configurations	2-Way, 3-Way, Multi-Port Manifold
Connection Port Sizes	Fully Customizable (e.g., 1/4", 3/8", 1/2", 3/4", 1")
Reducing Port Options	Available for all port combinations
Operating Temperature	Continuous up to 260°C (PFA)
Sealing Mechanism	Soft-seal valve seat with high-performance fluoropolymer seal
Cleaning Protocol	Cleanroom washed and double-bagged options available
Trace Metal Content	Below detectable limits (Semiconductor Grade)
Customization Scope	Custom dimensions, flow paths, and actuation interfaces