



SlipStream™ Flow Cells

CiDRA Precision Services, LLC manufactures flow cells for life sciences, medical device and chemical analysis markets. Whether your application involves components for OEM instruments, production tooling or consumables, CiDRA Precision Services, LLC has the technology, know-how and experience to meet your needs.

Benefits

- Any Glass Material (and Silicon)
- Unsurpassed Optical Characteristics
- Amazing Variety of Geometric Features
- Multilayer Flow Cells
- Reagent Compatibility
- Rapid Prototypes

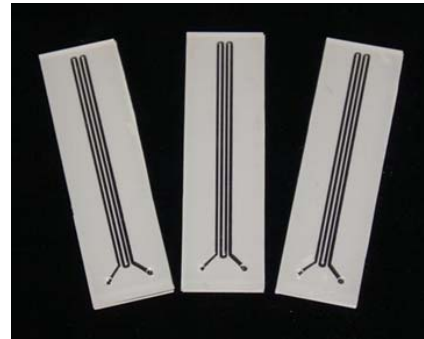
Applications

- Life Sciences Flow Cells
- Consumable Flow Cells for Medical Devices
- Fixed Flow Cells for Instrumentation
- Sequencing Flow Cells
- Production Tooling
- Basic Research

SlipStream™ Technology Advantages

SlipStream™ technology enables cost effective flow cells to be produced with uncompromising optical quality. Any combination of glass materials can be used, even if they have different thermal or mechanical properties. This allows customers the ultimate flexibility to choose the best materials for their application.

- Bonding process does not limit material choices
- Can use fused silica (low fluorescence) glass
- No glass deformation during flow cell bonding
- Optical grade channel bottoms
- Dissimilar top and bottom plate materials
- Deep holes and channels
- Complex flow channel geometries
- No masking or etching
- Low complexity processes – simple is best!



SlipStream™ Specifications

Parameter	Specification
Optical Flatness (all surfaces)	Less than 500nm/mm
Bottom & Top Plate Thickness	100um to 1cm
Top & Bottom Plate Thickness Tolerance	Less than +/-20um
Top & Bottom Plate Parallelism Tolerance	Less than +/-10um
Channel Thickness	25um to 700um
Channel Width	50um to >1cm
Channel Dimensional Accuracy	+/-30um
Standard Gasket Colors	Clear, White
Surface Roughness (Ra) for All Optical Surfaces	<2nm
Scratch/Dig Within Clear Aperture	10um/20um
Maximum Operational Temperature	200 °C
Maximum Pressure	20psi (*)
Maximum Size	2,000cm

(*) Design dependent

For more information about CiDRA Precision Services, LLC and to discuss your application, contact: Jim Sirkis at (203) 774-4457 or Customer Services at (203) 774-4422.