FLOW CELLS





Hamamatsu provides a wide variety of precision glass products such as flow cells. These are designed and manufactured based on our 65 years of experience in the production of vacuum tubes such as photomultiplier tubes along with our well-established glass processing technology. We welcome your requests for custom products.

Features

- High dimensional accuracy: Minimum tolerance ±0.005 mm
- Available in various shapes
- Materials: Synthetic silica, synthetic black quartz, etc.
- Custom products with sample inlet/outlet mechanism available

Applications

- Flow cytometry
- Blood analysis
- Imaging flow cytometry
- Particle counters

Specifications

Type No.	Material	Flow channel size (mm)	Note		
J11020-000-001			Standard type. Suitable flow channel for detecting minute particles.		
-002	Synthetic silica	□0.25 ± 0.025	Grinded type. Standard type with cylindrical grinding.		
-003			Standard type flow cell with a synthetic silica		
			hemisphere lens attached by UV glue.		
-006	Synthetic silica*1	□1.0 ± 0.025	Synthetic black quartz glass type.		
	Synthetic black quartz	L1.0 ± 0.025	Less stray light and low fluorescence from material.		

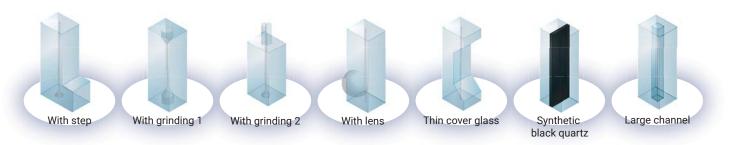
*1 : Index of refraction of synthetic silica: nC (656 nm) 1.456, nd (587 nm) 1.458, nF (486 nm) 1.463

Surface quality

Parameter	Optical effective areas	Other polished surfaces
Scratch	Width 0.004 mm Max.	Width 0.02 mm Max.
Dig	Φ 0.025 mm Max.	Ф 0.1 mm Max
Chipping	Depth 0.025 mm Max.	Depth 0.1 mm Max.

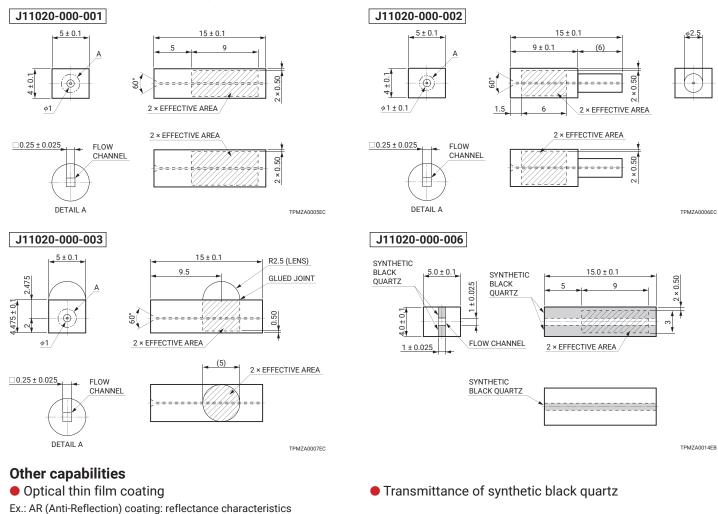
Customization

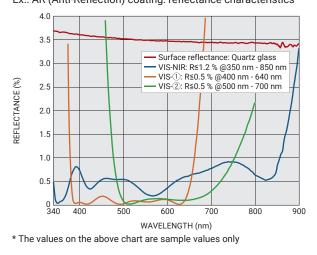
High quality synthetic silica flow cells



Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office. Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. ©2021 Hamamatsu Photonics K.K.

Dimensional outline (Unit: mm)

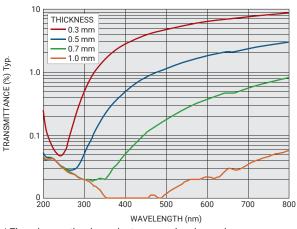




Marking



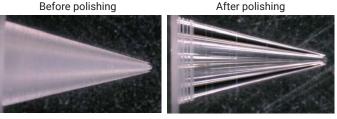
Serial number Part number Flow channel size



* The values on the above chart are sample values only

 Clear polishing for grinded inner surface Ex.: Conical shape / 30 deg

Before polishing



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