

Optical Lens

SFS Double-Convex Lens

Versatile Focusing from UV to NIR

- Premium Material
- High Precision
- Tight Tolerances
- Standard Design



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+658099 5547 (WhatsApp)



Visit Us
www.venuslabtech.com

Overview

Mastering the Spectrum: The Premier Choice for UV-NIR Focusing

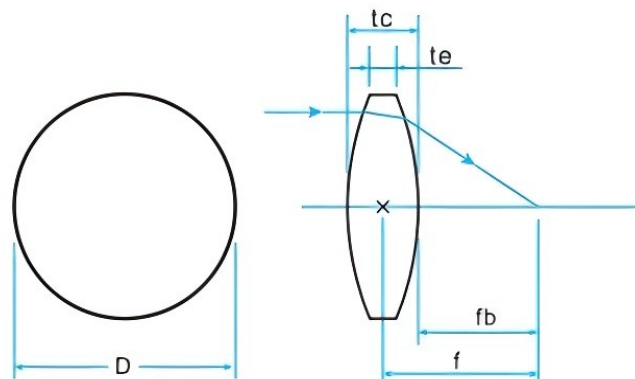
The VenusLab SFS Series Double-Convex Lenses are versatile focusing elements engineered for high-precision optical systems. Fabricated from premium **JGS1 UV Fused Silica**, these lenses offer superior thermal stability and spectral transmission compared to standard BK7 glass, excelling in broadband applications ranging from **Deep UV (185nm)** to **Near-Infrared (2000nm)**.

The symmetrical bi-convex design is optimized to minimize spherical aberration in **1:1 imaging** (unit conjugate) scenarios. With a high-precision **Surface Quality of 40-20**, the SFS Series ensures minimal scattering loss and maintains excellent wavefront quality for demanding laser applications.

Key Applications

- **UV Laser Systems:** Ideal for 266nm, 355nm laser focusing and beam expansion due to JGS1's UV transparency.
- **High-Power Laser Focusing:** Quartz material withstands higher thermal loads than standard glass.
- **Imaging Relay Systems:** Perfect for 1:1 image transfer in optical trains.
- **Biomedical & Fluorescence Instruments:** Low autofluorescence material ensures accurate signal detection.

Dimension:



Qualification

General Specifications

Property	Value
Material	UV Fused Silica (JGS1 / Quartz)
Design Wavelength	546.1 nm (n=1.460)
Surface Quality	40-20 Scratch-Dig
Clear Aperture	> 90% of Diameter
Diameter Tolerance	+0.0 / -0.1 mm
Focal Length Tolerance	± 1%
Chamfer	0.25mm x 45°

Selection Chart

Standard Models List

Model	D(mm)	F(mm)	Tc (mm)	Te (mm)	FB (mm)	Radius (mm)	Centration
VLLB-UV-06-06	6.0	6.5	2.8	1.0	5.5	5.52	3'
VLLB-UV-06-08	6.0	8.4	2.3	1.0	7.6	7.36	3'
VLLB-UV-10-10	10.0	10.9	5.0	2.0	9.1	9.20	1'
VLLB-UV-10-15	10.0	15.7	3.9	2.0	14.3	13.80	1'
VLLB-UV-10-20	10.0	20.6	3.4	2.0	19.4	18.40	1'
VLLB-UV-25-25	25.0	26.7	9.4	2.0	23.3	23.00	1'
VLLB-UV-25-30	25.0	31.4	8.0	2.0	28.6	27.60	1'
VLLB-UV-25-25A	25.4	25.4	10.3	2.0	21.58	21.61	1'
VLLB-UV-30-32	30.0	32.0	10.9	2.0	28.0	27.60	1'
VLLB-UV-50-53	50.0	53.0	17.9	3.0	46.5	45.80	1'

VLLB-UV-50-63	50.0*	63.0	15.0	3.0	57.63	55.49	1'
VLLB-UV-50-100	50.8	100.0	10.3	3.0	96.4	90.05	1'
VLLB-UV-50-150	50.8	150.0	7.8	3.0	147.3	136.31	1'
VLLB-UV-50-200	50.8	200.0	6.5	3.0	197.76	182.37	1'
VLLB-UV-50-250	50.8	250.0	5.8	3.0	248.0	228.33	1'
VLLB-UV-50-300	50.8	300.0	5.4	3.0	298.14	274.24	1'
VLLB-UV-50-500	50.8	500.0	4.4	3.0	498.49	457.80	1'
VLLB-UV-50-750	50.8	750.0	3.9	3.0	748.66	687.12	1'
VLLB-UV-50-1000	50.8	1000.0	3.7	3.0	998.73	916.40	1'

Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification


Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

Explore Series

Model	Tc (mm)	Radius (mm)	D(mm)	F(mm)	Centration	Te (mm)
VLLB-UV-25-25A	10.3	21.61	25.4	25.4	1'	2.0
VLLB-UV-06-06	2.8	5.52	6.0	6.5	3'	1.0
VLLB-UV-50-100	10.3	90.05	50.8	100.0	1'	3.0

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

[Get a Quote](#)



Get Expert Advice
+658099 5547 (WhatsApp)



Visit Us
www.venuslabtech.com