

UV FUSED SILICA MENISCUS LENSES

UV Fused Silica Meniscus lenses have one convex surface and one concave surface. They are used to change the focal length and effective f-number of another lens, without introducing additional spherical aberration or coma into the system in UV range.

Non-coated and AR coated products are available.

■ Standard Specifications:

Optical Material:	UV grade Fused Silica
Diameter Tolerance:	+0.0, -0.1mm
Design Wavelength:	546.10nm
Design Index:	1.46008±0.00005
Paraxial Focal Length:	±2%
Centration:	3 arc minutes
Clear Aperture:	>85%
Surface Quality:	60-40 scratch and dig
Wavefront Distortion:	lambda/4 at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request

■ Standard UV Fused Silica Meniscus Lenses: Positive

Dia(mm)	EFL(mm)	R1(mm)	R2(mm)	Tc(mm)	Te(mm)	BFL(mm)	Product Number
25.4	100.0	31.0	91.2	4.0	2.2	95.9	UQT-MSFP3011
25.4	150.0	47.6	149.8	3.2	2.0	146.8	UQT-MSFP3012
25.4	200.0	64.2	209.8	2.9	2.0	197.2	UQT-MSFP3013
25.4	300.0	97.6	330.6	2.6	2.0	297.5	UQT-MSFP3014
25.4	500.0	166.8	603.4	2.4	2.0	497.8	UQT-MSFP3015
25.4	1000.0	348.0	1425.7	2.2	2.0	998.0	UQT-MSFP3016
50.8	100.0	30.6	80.9	10.7	1.2	89.0	UQT-MSFP3017
50.8	150.0	46.5	135.3	7.8	2.7	142.0	UQT-MSFP3018
50.8	200.0	63.0	193.4	6.6	2.9	193.4	UQT-MSFP3019
50.8	300.0	97.6	327.6	5.4	3.0	294.8	UQT-MSFP3020
50.8	500.0	165.4	582.2	5.0	3.6	495.2	UQT-MSFP3021
50.8	1000.0	356.7	1580.2	5.0	4.3	995.6	UQT-MSFP3022

Standard UV Fused silica Meniscus Lenses: Negative

Dia(mm)	EFL(mm)	R1(mm)	R2(mm)	Tc(mm)	Te(mm)	BFL(mm)	Product Number
25.4	-100.0	150.0	35.0	3.0	4.9	-99.4	UQT-MSFP3011
25.4	-150.0	150.0	47.0	3.0	4.2	-149.1	UQT-MSFP3012
25.4	-200.0	150.0	56.6	3.5	4.4	-198.5	UQT-MSFP3013
25.4	300.0	150.0	71.4	3.5	4.1	-297.8	UQT-MSFP3014
25.4	500.0	200.0	106.4	3.5	3.9	-497.2	UQT-MSFP3015

25.4	-1000.0	300.0	180.8	4.0	4.2	-995.8	UQT-MSFP3016
5.08	-100.0	200.0	37.1	5.0	13.4	-99.3	UQT-MSFP3017
5.08	-150.0	200.0	50.2	5.0	10.2	-148.8	UQT-MSFP3018
5.08	-200.0	200.0	62.5	5.0	8.8	-198.4	UQT-MSFP3019
5.08	-300.0	250.0	88.4	5.0	7.4	-298.1	UQT-MSFP3020
5.08	-500.0	300.0	129.5	5.0	6.4	-497.4	UQT-MSFP3021
5.08	-1000.0	300.0	180.6	5.0	5.7	-994.7	UQT-MSFP3022

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

NOTES!

- ➔ The edge thicknesses are theoretical values not including chamfer.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.