

Equi-Convex Glass Lenses

- **Ideal for 1:1 imaging**
- **Wide range of focal lengths available**

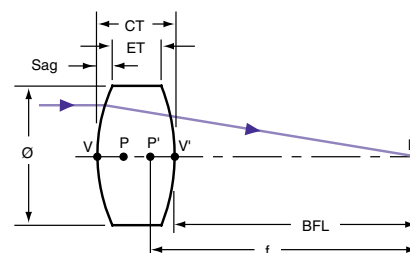


Specifications

Material: BK7 glass
Refractive Index: 1.5168 (at 587.6 nm)
Abbe Number V_d : 64.17
Focal Length Tolerance: $\pm 2\%$
Diameter Tolerance: $+0 -0.2$ mm
Center Thickness Tolerance: ± 0.2 mm
Wedge Angle: < 5 arcmin
Surface Quality: 40-20
Uncoated

These lenses have positive focal lengths and are the optimum shape for producing real images at 1:1 magnification. In a single lens application you should consider using them in preference to a single plano-convex lens if the magnification lies in the region:

$$-5 < m < -0.2$$



Equi-Convex Glass Lenses

Catalog Number	Focal Length, f (mm)	Diameter, Ø (mm)	Center Thickness, CT (mm)	Edge Thickness, ET (mm)	Principal Point V/P' (mm)	Sag (mm)	Price US
43-0744	15.0	12.5	4.3	1.5	-1.5	1.4	\$17.00
43-0751	20.0	12.5	3.5	1.5	-1.2	1.0	\$17.00
43-0769	25.0	12.5	3.1	1.5	-1.0	0.8	\$17.00
43-0777	30.0	12.5	2.8	1.5	-0.9	0.6	\$17.00
43-0785	35.0	12.5	2.6	1.5	-0.9	0.6	\$17.00
43-0793	40.0	12.5	2.5	1.5	-0.8	0.5	\$17.00
43-0801	50.0	12.5	2.3	1.5	-0.8	0.4	\$17.00
43-0819	60.0	12.5	2.1	1.5	-0.7	0.3	\$17.00
43-0827	75.0	12.5	2.0	1.5	-0.7	0.3	\$17.00
43-0835	100.0	12.5	1.9	1.5	-0.6	0.2	\$17.00
43-0843	125.0	12.5	1.8	1.5	-0.6	0.2	\$17.00
43-0850	150.0	12.5	1.8	1.5	-0.6	0.1	\$17.00
43-0868	200.0	12.5	1.7	1.5	-0.6	0.1	\$17.00
43-0876	250.0	12.5	1.7	1.5	-0.6	0.1	\$17.00

Optics

Lenses & Microscope Components

Coatings

Mirrors, Beamsplitters & Windows

Prisms & Polarizers

Filters

Pinholes

Fixed Lens Mounts



Fixed lens mounts are also available.

Equi-Convex Glass Lenses (continued)

Catalog Number	Focal Length, f (mm)	Diameter, Ø (mm)	Center Thickness, CT (mm)	Edge Thickness, ET (mm)	Principal Point V'P' (mm)	Sag (mm)	Price US
43-0991	25.0	25.0	8.4	1.5	-2.9	3.5	\$23.00
43-1007	30.0	25.0	7.0	1.5	-2.4	2.8	\$23.00
43-1015	40.0	25.0	5.5	1.5	-1.9	2.0	\$23.00
43-1023	50.0	25.0	4.6	1.5	-1.5	1.6	\$23.00
43-1031	60.0	25.0	4.1	1.5	-1.4	1.3	\$23.00
43-1049	75.0	25.0	3.5	1.5	-1.2	1.0	\$23.00
43-1056	100.0	25.0	3.0	1.5	-1.0	0.8	\$23.00
43-1064	125.0	25.0	2.7	1.5	-0.9	0.6	\$23.00
43-1072	150.0	25.0	2.5	1.5	-0.8	0.5	\$23.00
43-1080	200.0	25.0	2.3	1.5	-0.8	0.4	\$23.00
43-1098	250.0	25.0	2.1	1.5	-0.7	0.3	\$23.00
43-1106	300.0	25.0	2.0	1.5	-0.7	0.3	\$23.00
43-1114	400.0	25.0	1.9	1.5	-0.6	0.2	\$23.00
43-1122	500.0	25.0	1.8	1.5	-0.6	0.2	\$23.00
43-1239	50.0	50.0	16.3	2.5	-5.7	6.9	\$44.00
43-1247	75.0	50.0	11.0	2.5	-3.7	4.3	\$44.00
43-1254	100.0	50.0	8.7	2.5	-2.9	3.1	\$44.00
43-1262	125.0	50.0	7.4	2.5	-2.5	2.5	\$44.00
43-1270	150.0	50.0	6.6	2.5	-2.2	2.0	\$44.00
43-1288	200.0	50.0	5.5	2.5	-1.8	1.5	\$44.00
43-1296	250.0	50.0	4.9	2.5	-1.6	1.2	\$44.00
43-1304	300.0	50.0	4.5	2.5	-1.5	1.0	\$44.00
43-1312	400.0	50.0	4.0	2.5	-1.3	0.8	\$44.00
43-1320	500.0	50.0	3.7	2.5	-1.2	0.6	\$44.00
43-1338	750.0	50.0	3.3	2.5	-1.1	0.4	\$44.00
43-1346	1000.0	50.0	3.1	2.5	-1.0	0.3	\$44.00

Opto-mechanics

Tables, Breadboards & Rails

Mounting Hardware

Mirror & Component Mounts

Manual Micro-positioners

Motorized Positioners

Lasers & Accessories

Beam Delivery

Laser Measurement

Diode Laser Modules