

Plano-Convex Glass Lenses

- Ideal for infinite conjugate use
- Wide range of focal lengths



- Optics
 - Lenses & Microscope Components
 - Coatings
 - Mirrors, Beamsplitters & Windows
 - Prisms & Polarizers
 - Filters
 - Pinholes

- Opto-mechanics
 - Tables, Breadboards & Rails
 - Mounting Hardware
 - Mirror & Component Mounts
 - Manual Micro-positioners
 - Motorized Positioners

- Lasers & Accessories
 - Beam Delivery
 - Laser Measurement
 - Diode Laser Modules

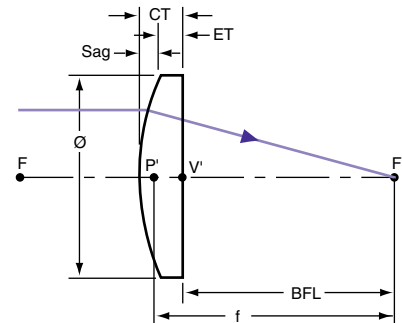
Specifications

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. They work best when producing real images at near infinite conjugates or where one of the conjugates is virtual. They outperform the equivalent equi-convex lens if the magnification lies in the range:

$$m < -5 \text{ or } m > -0.2$$

The optimum orientation for most application is with the curved surface towards the long conjugate.



Plano-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
43-0009	15.0	12.5	4.7	1.5	-3.1	3.2	\$16.00
43-0017	20.0	12.5	3.6	1.5	-2.4	2.1	\$16.00
43-0025	25.0	12.5	3.1	1.5	-2.0	1.6	\$16.00
43-0033	30.0	12.5	2.8	1.5	-1.8	1.3	\$16.00
43-0041	35.0	12.5	2.6	1.5	-1.7	1.1	\$16.00
43-0058	40.0	12.5	2.5	1.5	-1.6	1.0	\$16.00
43-0066	50.0	12.5	2.3	1.5	-1.5	0.8	\$16.00
43-0074	60.0	12.5	2.1	1.5	-1.4	0.6	\$16.00
43-0082	75.0	12.5	2.0	1.5	-1.3	0.5	\$16.00
43-0090	100.0	12.5	1.9	1.5	-1.3	0.4	\$16.00
43-0108	125.0	12.5	1.8	1.5	-1.2	0.3	\$16.00
43-0116	150.0	12.5	1.8	1.5	-1.2	0.3	\$16.00
43-0124	200.0	12.5	1.7	1.5	-1.1	0.2	\$16.00
43-0132	250.0	12.5	1.7	1.5	-1.1	0.2	\$16.00

Optics

Lenses & Microscope Components

Coatings

Mirrors, Beam Splitters & Windows

Prisms & Polarizers

Filters

Pinholes

Fixed Lens Mounts



Fixed lens mounts are also available.

Opto-mechanics

Tables, Breadboards & Rails

Mounting Hardware

Mirror & Component Mounts

Manual Micro-positioners

Motorized Positioners

Lasers & Accessories

Beam Delivery

Laser Measurement

Diode Laser Modules

Plano-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
43-0249	30.0	25.0	7.8	1.5	-5.1	6.3	\$20.00
43-0256	40.0	25.0	5.7	1.5	-3.8	4.2	\$20.00
43-0264	50.0	25.0	4.7	1.5	-3.1	3.2	\$20.00
43-0272	60.0	25.0	4.1	1.5	-2.7	2.6	\$20.00
43-0280	75.0	25.0	3.6	1.5	-2.4	2.1	\$20.00
43-0298	100.0	25.0	3.0	1.5	-2.0	1.5	\$20.00
43-0306	125.0	25.0	2.7	1.5	-1.8	1.2	\$20.00
43-0314	150.0	25.0	2.5	1.5	-1.6	1.0	\$20.00
43-0322	200.0	25.0	2.3	1.5	-1.5	0.8	\$20.00
43-0330	250.0	25.0	2.1	1.5	-1.4	0.6	\$20.00
43-0348	300.0	25.0	2.0	1.5	-1.3	0.5	\$20.00
43-0355	400.0	25.0	1.9	1.5	-1.3	0.4	\$20.00
43-0363	500.0	25.0	1.8	1.5	-1.2	0.3	\$20.00
43-0462	75.0	50.0	11.6	2.5	-7.6	9.1	\$38.00
43-0470	100.0	50.0	8.9	2.5	-5.9	6.4	\$38.00
43-0488	125.0	50.0	7.5	2.5	-4.9	5.0	\$38.00
43-0496	150.0	50.0	6.6	2.5	-4.4	4.1	\$38.00
43-0504	200.0	50.0	5.6	2.5	-3.7	3.1	\$38.00
43-0512	250.0	50.0	4.9	2.5	-3.2	2.4	\$38.00
43-0520	300.0	50.0	4.5	2.5	-3.0	2.0	\$38.00
43-0538	400.0	50.0	4.0	2.5	-2.6	1.5	\$38.00
43-0546	500.0	50.0	3.7	2.5	-2.4	1.2	\$38.00
43-0553	750.0	50.0	3.3	2.5	-2.2	0.8	\$38.00
43-0561	1000.0	50.0	3.1	2.5	-2.0	0.6	\$38.00