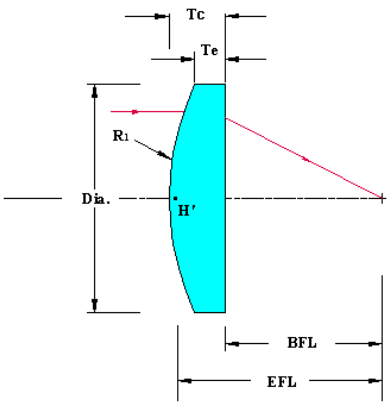
Artifex Optics
Optics for Industry and Research

Fused Silica Plano-Convex Lenses

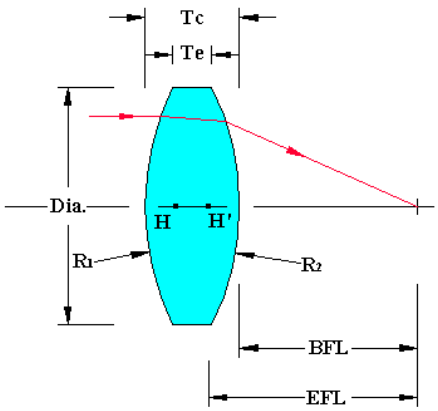
Material: UV Grade Fused Silica
Design Wavelength: 587.6nm; n=1.45848
Diameter Tolerance: +0.0 /-0.1mm
Center Thickness Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 40/20
Clear Aperture: >90%
Surface Irregularty: λ/4 at 632.8nm
Bevel : 0.2mmX45^0
Coatings: without coating



Catalog No.	Dia. (mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCX-FS-004-006	4.0	6.3	4.854	2.889	2.11	1.30
PCX-FS-004-010	4.0	10.0	8.340	4.585	2.42	1.5
PCX-FS-004-015	4.0	15.0	13.560	6.877	2.10	1.5
PCX-FS-004-020	4.0	20.0	18.670	9.17	1.94	1.5
PCX-FS-006-010	6.3	10.0	7.250	4.585	4.01	1.5
PCX-FS-006-012	6.3	12.5	10.176	5.731	3.39	1.5
PCX-FS-006-015	6.3	15.0	12.922	6.877	3.03	1.5
PCX-FS-006-020	6.3	20.0	18.204	9.17	2.62	1.5
PCX-FS-006-025	6.3	25.0	23.368	11.462	2.38	1.5
PCX-FS-006-040	6.3	40.0	38.590	18.338	2.05	1.5
PCX-FS-006-050	6.3	50.0	48.667	22.923	1.94	1.5
PCX-FS-010-012	10.0	12.5	9.462	5.731	4.43	1.5
PCX-FS-010-015	10.0	15.0	11.016	6.877	5.81	1.5
PCX-FS-010-020	10.0	20.0	17.943	9.17	3.00	1.5
PCX-FS-010-025	10.0	25.0	23.183	11.462	2.65	1.5
PCX-FS-010-040	10.0	40.0	38.146	18.338	2.70	2.0
PCX-FS-010-050	10.0	50.0	48.242	22.923	2.56	2.0
PCX-FS-012-020	12.7	20.0	16.874	9.17	4.56	2.0
PCX-FS-012-025	12.7	25.0	22.312	11.462	3.92	2.0
PCX-FS-012-030	12.7	30.0	27.558	13.754	3.56	2.0
PCX-FS-012-040	12.7	40.0	37.844	18.338	3.14	2.0
PCX-FS-012-050	12.7	50.0	48.009	22.92	2.90	2.0
PCX-FS-012-100	12.7	100.0	98.327	45.848	2.44	2.0
PCX-FS-025-035	25.4	35.0	29.355	16.046	8.23	2.0
PCX-FS-025-050	25.4	50.0	45.994	22.923	5.84	2.0
PCX-FS-025-075	25.4	75.0	71.954	34.385	4.44	2.0
PCX-FS-025-100	25.4	100.0	97.394	45.848	3.80	2.0
PCX-FS-025-150	25.4	150.0	147.819	68.789	3.19	2.0
PCX-FS-025-175	25.4	175.0	172.932	80.23	3.02	2.0
PCX-FS-025-200	25.4	200.0	198.027	91.70	2.89	2.0
PCX-FS-025-250	25.4	250.0	248.142	114.62	2.71	2.0
PCX-FS-025-400	25.4	400.0	398.323	183.39	2.44	2.0

Fused Silica Double-Convex Lenses

Material: UV Grade Fused Silica
Design Wavelength: 587.6nm; n=1.45848
Diameter Tolerance: +0.0/-0.1mm
Center Thickness Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 40/20 scratch-dig
Clear Aperture: >90%
Surface Irregularity: λ/4 at 632.8nm
Bevel : 0.2mmX45^0
Coating: without coating



Catalog No.	Dia. (mm)	EFL(mm)	BFL(mm)	R_1=-R_2(mm)	Tc(mm)	Te(mm)
DCX-FS-004-004	4.0	4.0	2.806	3.12	2.96	1.5
DCX-FS-006-006	6.3	6.3	4.886	5.13	3.67	1.5
DCX-FS-006-016	6.0	16.0	15.419	14.4	1.63	1.0
DCX-FS-010-010	10.0	10.0	8.184	8.34	4.83	1.5
DCX-FS-012-012	12.7	12.7	10.31	10.54	6.26	2.0
DCX-FS-012-015	12.7	15.0	13.039	12.86	5.36	2.0
DCX-FS-025-025	25.4	25.4	21.597	21.55	10.28	2.0
DCX-FS-025-030	25.4	30.0	26.898	26.09	8.6	2.0

Artifex Optics
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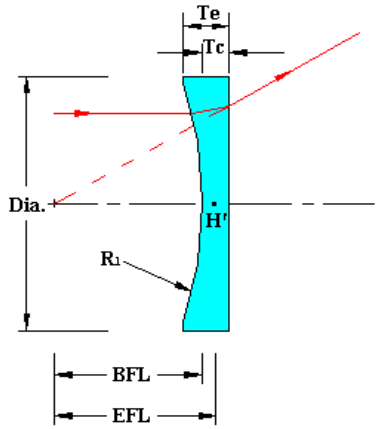
Fused Silica Plano-Concave Lenses

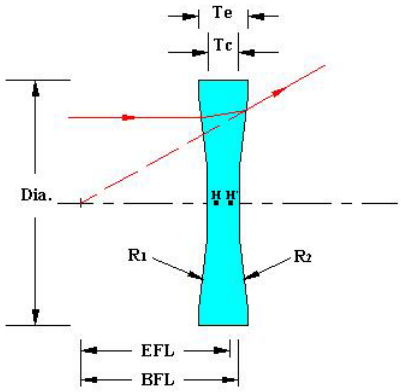
Material: UV Grade Fused Silica
Design Wavelength: 587.6nm; n=1.45848
Diameter Tolerance: +0.0 /-0.1mm
Center Thickness Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 40/20 scratch-dig
Clear Aperture: >90%
Surface Irregularity: λ/4 at 632.8nm
Bevel : 0.2mmX45^0
Coating : without coating



Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCV-FS-004-006	4.0	-6.3	-7.33	-2.89	1.5	2.30
PCV-FS-004-010	4.0	-10.0	-11.063	-4.585	1.55	2.00
PCV-FS-004-015	4.0	-15.0	--16.172	-6.877	1.71	2.00
PCV-FS-004-020	4.0	-20.0	-21.221	-9.17	1.78	2.00
PCV-FS-006-010	6.3	-10.0	-10.686	-4.585	1.0	2.25
PCV-FS-006-012	6.3	-12.5	-13.528	-5.731	1.5	2.44
PCV-FS-006-015	6.3	-15.0	-16.028	-6.877	1.5	2.26
PCV-FS-006-020	6.3	-20.0	-21.029	-9.17	1.5	2.06
PCV-FS-006-025	6.3	-25.0	-26.028	-11.462	1.5	1.94
PCV-FS-006-040	6.3	-40.0	-41.371	-18.339	2.0	2.27
PCV-FS-006-050	6.3	-50.0	-51.371	-22.924	2.0	2.22
PCV-FS-010-012	10.0	-12.5	-13.528	-5.731	1.5	4.43
PCV-FS-010-015	10.0	-15.0	-16.028	-6.877	1.5	3.65
PCV-FS-010-020	10.0	-20.0	-21.029	-9.17	1.5	2.98
PCV-FS-010-025	10.0	-25.0	-26.028	-11.462	1.5	2.64
PCV-FS-010-040	10.0	-40.0	-41.028	-18.339	1.5	2.19
PCV-FS-010-050	10.0	-50.0	-51.028	-22.924	1.5	2.05
PCV-FS-012-020	12.7	-20.0	-21.029	-9.17	1.5	4.05
PCV-FS-012-025	12.7	-25.0	-26.028	-11.462	1.5	3.42
PCV-FS-012-030	12.7	-30.0	-31.028	-13.754	1.5	3.05
PCV-FS-012-040	12.7	-40.0	-41.028	-18.339	1.5	2.63
PCV-FS-012-050	12.7	-50.0	-51.028	-22.924	1.5	2.40
PCV-FS-012-100	12.7	-100.0	-101.028	-45.848	1.7	2.14
PCV-FS-025-035	25.4	-35.0	-36.372	-16.047	2.0	8.24
PCV-FS-025-050	25.4	-50.0	-51.371	-22.924	2.0	5.84
PCV-FS-025-075	25.4	-75.0	-76.371	-34.386	2.0	4.43
PCV-FS-025-100	25.4	-100.0	-101.371	-45.848	2.0	3.79
PCV-FS-025-150	25.4	-150.0	-151.371	-68.772	2.0	3.18
PCV-FS-025-175	25.4	-175.0	-176.371	-80.234	2.0	3.01
PCV-FS-025-200	25.4	-200.0	-201.38	-91.70	2.0	2.88
PCV-FS-025-250	25.4	-250.0	-251.371	-114.62	2.0	2.77
PCV-FS-025-400	25.4	-400.0	-401.367	-183.39	2.0	2.44

Fused Silica Double-Concave Lenses

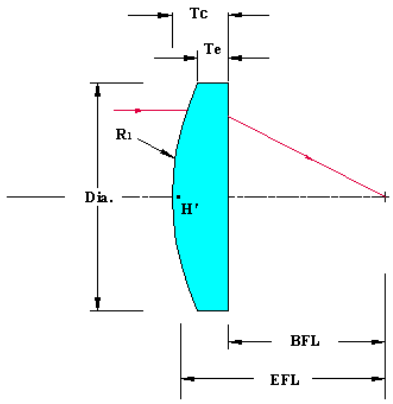
Material: UV Grade Fused Silica
Design Wavelength: 587.6nm; n=1.45848
Diameter Tolerance: +0.0 /-0.1mm
Center Thickness Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 40/20 scratch-dig
Clear Aperture: >90%
Surface Irregularity: λ/4 at 632.8nm
Bevel : 0.2mmX45^0
Coating : without coating



Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1=-R_2 (mm)	Tc(mm)	Te(mm)
DCV-FS-006-006	6.3	-6.3	-6.956	-6.08	2.0	3.76
DCV-FS-010-010	10.0	-10.0	-10.67	-9.48	2.0	4.85
DCV-FS-012-012	12.7	-12.7	-13.366	-11.95	2.0	5.65
DCV-FS-012-015	12.7	-15.0	-15.805	-14.125	2.4	5.42
DCV-FS-025-025	25.4	-25.4	-26.076	-23.60	2.0	9.42
DCV-FS-025-030	25.4	-30.0	-30.678	-27.82	2.0	8.14

BK7 Plano-Convex Lenses

Material: BK7 grade A optical glass
Design Wavelength: 587.6nm
Diameter Tolerance: +0.0/-0.1mm
Center Thickness Tolerance: ±0.2mm
Surace Figure: λ/4 @632.8nm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 60-40 scratch-dig
Bevel : 0.2mmX45^0
Coatings: without coating



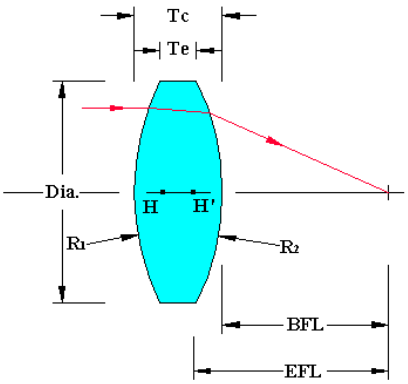
Order No.	Dia. (mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCX-BK7-004-005	4.0	5.0	3.747	2.582	1.9	0.95
PCX-BK7-004-006	4.0	6.3	5.179	3.253	1.7	1.01
PCX-BK7-004-010	4.0	10.0	8.883	5.17	1.7	1.30
PCX-BK7-006-008	6.3	8.0	6.283	4.13	2.6	1.14
PCX-BK7-006-010	6.3	10.0	8.297	5.17	2.6	1.53
PCX-BK7-006-012	6.3	12.5	10.98	6.455	2.3	1.48
PCX-BK7-006-016	6.3	16.0	14.615	8.262	2.1	1.48
PCX-BK7-006-020	6.3	20.0	18.744	10.36	2.0	1.51
PCX-BK7-006-025	6.3	25.0	23.748	12.91	1.9.	1.51
PCX-BK7-006-040	6.3	40.0	38.87	20.65	1.7	1.46
PCX-BK7-006-063	6.3	63.0	61.818	32.5	1.7	1.55
PCX-BK7-010-012	10.0	12.5	9.929	6.455	3.9	1.53
PCX-BK7-010-016	10.0	16.0	13.89	8.262	3.2	1.52
PCX-BK7-010-020	10.0	20.0	18.217	10.36	2.8	1.51
PCX-BK7-010-025	10.0	25.0	23.353	12.91	2.5	1.49
PCX-BK7-010-032	10.0	31.5	29.992	16.27	2.3	1.51
PCX-BK7-010-040	10.0	40.0	38.606	20.65	2.1	1.49
PCX-BK7-010-050	10.0	50.0	48.723	25.84	2.0	1.51
PCX-BK7-010-063	10.0	63.0	61.686	32.5	1.9	1.51
PCX-BK7-010-100	10.0	100.0	98.885	51.64	1.7	1.46
PCX-BK7-016-020	16.0	20.0	16.898	10.36	4.8	1.02
PCX-BK7-016-025	16.0	25.0	22.364	12.91	4.0	1.22
PCX-BK7-016-032	16.0	31.5	29.134	16.27	3.6	1.50
PCX-BK7-016-040	16.0	40.0	37.946	20.65	3.1	1.49
PCX-BK7-016-050	16.0	50.0	48.195	25.84	2.8	1.53
PCX-BK7-016-063	16.0	63.0	61.291	32.5	2.5	1.50
PCX-BK7-016-080	16.0	80.0	78.465	41.3	2.3	1.52
PCX-BK7-016-100	16.0	100.0	98.621	51.64	2.1	1.48
PCX-BK7-016-160	16.0	160.0	158.75	82.62	1.9	1.51
PCX-BK7-025-025	25.0	25.4	18.031	13.11	11.16	2.00
PCX-BK7-025-032	25.0	31.5	26.328	16.266	7.86	2.00
PCX-BK7-025-040	25.0	40.0	35.893	20.65	6.21	2.00

BK7 Plano-Convex (PCX) Lenses

Order No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCX-BK7-025-050	25.0	50.0	46.096	25.84	4.7	1.47
PCX-BK7-025-063	25.0	63.0	59.472	32.5	4.0	1.50
PCX-BK7-025-080	25.0	80.0	77.385	41.3	3.94	2.0
PCX-BK7-025-100	25.0	100.0	97.674	51.64	3.54	2.0
PCX-BK7-025-125	25.0	125.0	122.882	64.55	3.22	2.0
PCX-BK7-025-160	25.0	160.0	158.055	82.62	2.95	2.0
PCX-BK7-025-200	25.0	200.0	198.19	103.28	2.76	2.0
PCX-BK7-025-250	25.0	250.0	248.57	129.24	2.61	2.0
PCX-BK7-025-400	25.0	400.0	397.564	206.1	2.38	2.0
PCX-BK7-025-500	25.0	500.0	498.472	258.18	2.30	2.0
PCX-BK7-025-1000	25.0	1000.0	998.83	516.5	2.15	2.0
PCX-BK7-040-050	40.0	50.0	42.142	25.84	11.98	2.5
PCX-BK7-040-063	40.0	63.0	56.752	32.5	9.38	2.5
PCX-BK7-040-080	40.0	80.0	74.9267	41.3	7.67	2.5
PCX-BK7-040-100	40.0	100.0	95.699	51.64	6.53	2.5
PCX-BK7-040-125	40.0	125.0	121.26	64.55	5.68	2.5
PCX-BK7-040-160	40.0	160.0	156.73	82.62	4.96	2.5
PCX-BK7-040-200	40.0	200.0	197.07	103.28	4.45	2.5
PCX-BK7-040-250	40.0	250.0	247.61	129.24	4.06	2.5
PCX-BK7-040-500	40.0	500.0	497.83	258.18	3.28	2.5
PCX-BK7-050-063	50.0	63.0	53.223	32.5	14.73	3.0
PCX-BK7-050-080	50.0	80.0	72.446	41.3	11.43	3.0
PCX-BK7-050-100	50.0	100.0	93.771	51.64	9.45	3.0
PCX-BK7-050-160	50.0	160.0	155.469	82.62	6.87	3.0
PCX-BK7-050-250	50.0	250.0	246.700	129.24	5.44	3.0
PCX-BK7-050-500	50.0	500.0	497.212	258.18	4.21	3.0
PCX-BK7-063-100	63.0	100.0	90.958	51.64	13.72	3.0
PCX-BK7-063-125	63.0	125.0	117.616	64.55	11.21	3.0
PCX-BK7-063-160	63.0	160.0	153.908	82.62	9.24	3.0
PCX-BK7-063-250	63.0	250.0	245.74	129.24	6.9	3.0
PCX-BK7-063-500	63.0	500.0	496.74	258.18	3.93	3.0
PCX-BK7-063-1000	63.0	1000.0	997.64	516.5	3.96	3.0
PCX-BK7-100-160	100.0	160.0	146.253	82.62	20.85	4.0
PCX-BK7-100-250	100.0	250.0	241.37	129.24	14.05	4.0
PCX-BK7-100-500	100.0	500.0	494.129	258.18	8.89	4.0

BK7 Double-Convex Lenses

Material: BK7 grade A optical glass
Design Wavelength: 587.6nm
Diameter Tolerance: +0.0/-0.1mm
Center Thickness Tolerance: ±0.2mm
Surace Figure: λ/4 @632.8nm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 60-40 scratch-dig
Bevel : 0.2mmX45^0
Coatings: without coating

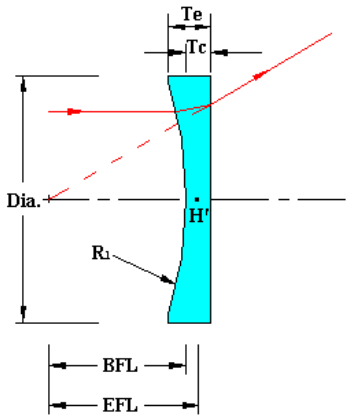


Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1=-R_2 (mm)	Tc(mm)	Te(mm)
DCX-BK7-002-002	2.0	2.0	1.359	1.734	1.63	1.0
DCX-BK7-002-003	2.0	2.5	1.962	2.304	1.46	1.0
DCX-BK7-003-003	3.0	3.0	2.291	2.732	1.90	1.0
DCX-BK7-003-006	3.0	6.3	5.833	6.265	1.36	1.0
DCX-BK7-003-009	3.0	10.0	9.588	10.115	1.22	1.0
DCX-BK7-004-004	4.0	4.0	3.214	3.728	2.16	1.0
DCX-BK7-006-006	6.3	6.3	5.065	5.861	3.34	1.50
DCX-BK7-010-010	10.0	10.0	8.240	9.419	4.87	2.0
DCX-BK7-012-012	12.5	12.5	10.514	11.885	5.55	2.0
DCX-BK7-016-016	16.0	16.0	13.668	15.311	6.51	2.0
DCX-BK7-025-025	25.0	25.0	21.846	24.19	8.96	2.0
DCX-BK7-040-040	40.0	40.0	35.236	38.85	13.59	2.5
DCX-BK7-050-050	50.0	50.0	44.097	48.59	16.85	3.0
DCX-BK7-063-063	63.0	63.0	55.880	61.39	20.40	3.0
DCX-BK7-100-100	100.0	100.0	89.981	98.5	31.52	4.0

Artifex Optics
Optics for Industry and Research

BK7 Plano-Concave Lenses

Material: BK7 grade A optical glass
Design Wavelength: 587.6nm
Diameter Tolerance: +0.0/-0.1mm
Center Thickness Tolerance: ±0.2mm
Surace Figure: λ/4 @632.8nm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 60-40 scratch-dig
Bevel : 0.2mmX45^0
Coatings: without coating



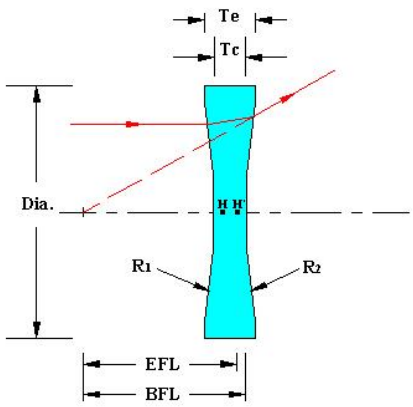
Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCV-BK7-004-005	4.0	-5.0	-5.99	-2.582	1.5	2.45
PCV-BK7-004-006	4.0	-6.3	-7.29	-3.253	1.5	2.19
PCV-BK7-004-010	4.0	-10.0	-10.99	-5.17	1.5	1.90
PCV-BK7-006-008	6.3	-8.0	-8.987	-4.13	1.5	2.96
PCV-BK7-006-010	6.3	-10.0	-11.0	-5.17	1.5	2.57
PCV-BK7-006-012	6.3	-12.5	-13.5	-6.46	1.5	2.32
PCV-BK7-006-016	6.3	-16.0	-16.99	-8.26	1.5	2.12
PCV-BK7-006-020	6.3	-20.0	-20.99	-10.33	1.5	1.99
PCV-BK7-006-025	6.3	-25.0	-25.99	-12.91	1.5	1.89
PCV-BK7-006-040	6.3	-40.0	-40.98	-20.65	1.5	1.71
PCV-BK7-006-063	6.3	-63.0	-63.93	-32.5	1.5	1.65
PCV-BK7-010-012	10.0	-12.5	-13.5	-6.46	1.5	3.87
PCV-BK7-010-016	10.0	-16.0	-16.99	-8.26	1.5	3.19
PCV-BK7-010-020	10.0	-20.0	-20.99	-10.327	1.5	2.79
PCV-BK7-010-025	10.0	-25.0	-25.99	-12.91	1.5	2.51
PCV-BK7-010-032	10.0	-31.5	-32.5	-16.27	1.5	2.29
PCV-BK7-010-040	10.0	-40.0	-40.98	-20.65	1.5	2.11
PCV-BK7-010-050	10.0	-50.0	-51.03	-25.84	1.5	1.99
PCV-BK7-010-063	10.0	-63.0	-63.93	-32.5	1.5	1.89
PCV-BK7-010-100	10.0	-100.0	-101.00	-51.64	1.5	1.74
PCV-BK7-016-020	16.0	-20.0	-20.99	-10.33	1.5	5.29
PCV-BK7-016-025	16.0	-25.0	-25.99	-12.91	1.5	4.22
PCV-BK7-016-032	16.0	-31.5	-32.5	-16.27	1.5	3.60
PCV-BK7-016-040	16.0	-40.0	-40.98	-20.65	1.5	3.11
PCV-BK7-016-050	16.0	-50.0	-51.66	-25.84	1.5	2.77
PCV-BK7-016-063	16.0	-63.0	-63.98	-32.5	1.5	2.50
PCV-BK7-016-080	16.0	-80.0	-80.97	-41.3	1.5	2.28
PCV-BK7-016-100	16.0	-100.0	-101.00	-51.64	1.5	2.12
PCV-BK7-016-160	16.0	-160.0	-161.00	-82.62	1.5	1.89
PCV-BK7-025-025	25.0	-25.4	-26.71	-13.11	2.0	11.16
PCV-BK7-025-032	25.0	-31.5	-32.83	-16.27	2.0	7.86
PCV-BK7-025-040	25.0	-40.0	-40.98	-20.65	2.0	6.21

BK7 Plano-Concave Lenses

Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCV-BK7-025-050	25.0	-50.0	-51.36	-25.84	2.0	5.22
PCV-BK7-025-063	25.0	-63.0	-64.26	-32.5	2.0	4.50
PCV-BK7-025-080	25.0	-80.0	-81.3	-41.3	2.0	3.94
PCV-BK7-025-100	25.0	-100.0	-101.3	-51.64	2.0	3.54
PCV-BK7-025-125	25.0	-125.0	-126.3	-64.55	2.0	3.22
PCV-BK7-025-160	25.0	-160.0	-161.3	-82.62	2.0	2.95
PCV-BK7-025-200	25.0	-200.0	-201.3	-103.28	2.0	2.75
PCV-BK7-025-250	25.0	-250.0	-251.4	-129.13	2.0	2.61
PCV-BK7-025-400	25.0	-400.0	-400.5	-206.1	2.0	2.38
PCV-BK7-025-500	25.0	-500.0	-501.3	-258.18	2.0	2.30
PCV-BK7-025-1000	25.0	-1000.0	-1001	-516.5	2.0	2.15
PCV-BK7-040-050	40.0	-50.0	-51.69	-25.84	2.5	11.98
PCV-BK7-040-063	40.0	-63.0	-64.58	-32.5	2.5	9.38
PCV-BK7-040-080	40.0	-80.0	-81.63	-41.3	2.5	7.57
PCV-BK7-040-100	40.0	-100.0	-101.7	-51.64	2.5	6.53
PCV-BK7-040-125	40.0	-125.0	-126.7	-64.55	2.5	5.68
PCV-BK7-040-160	40.0	-160.0	-161.7	-82.62	2.5	4.96
PCV-BK7-040-200	40.0	-200.0	-201.6	-103.28	2.5	4.46
PCV-BK7-040-250	40.0	-250.0	-251.9	-129.24	2.5	4.06
PCV-BK7-040-500	40.0	-500.0	-501.6	-258.18	2.5	3.28
PCV-BK7-050-063	50.0	-63.0	-64.92	-32.5	3.0	14.73
PCV-BK7-050-080	50.0	-80.0	-81.96	-41.3	3.0	11.43
PCV-BK7-050-100	50.0	-100.0	-102	-51.64	3.0	9.45
PCV-BK7-050-160	50.0	-160.0	-162	-82.62	3.0	6.87
PCV-BK7-050-250	50.0	-250.0	-252.3	-129.24	3.0	5.11
PCV-BK7-050-500	50.0	-500.0	-502	-258.18	3.0	4.21

BK7 Double-Concave Lenses

Material: BK7 grade A optical glass
Design Wavelength: 587.6nm
Diameter Tolerance: +0.0/-0.1mm
Center Thickness Tolerance: ±0.2mm
Surace Figure: λ/4 @632.8nm
Focal Length Tolerance: ±2%
Centering Tolerance: 3 arc minutes
Surface Quality: 60-40 scratch-dig
Bevel : 0.2mmX45^0
Coatings: without coating

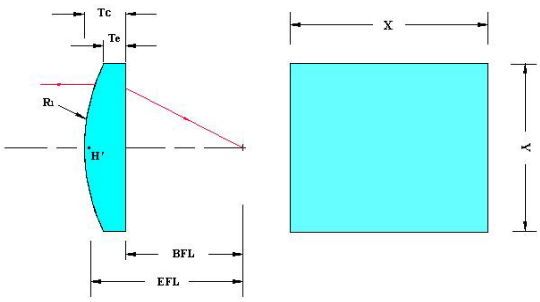


Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	R_1=-R_2(mm)	Tc(mm)	Te(mm)
DCV-BK7-002-002	2.0	-2.0	-2.307	-2.224	1.0	1.48
DCV-BK7-002-003	2.0	-2.5	-2.810	-2.742	1.0	1.38
DCV-BK7-003-003	3.0	-3.0	-3.313	-3.26	1.0	1.73
DCV-BK7-003-006	3.0	-6.3	-6.621	-6.672	1.0	1.34
DCV-BK7-003-009	3.0	-10.0	-10.32	-10.495	1.0	1.22
DCV-BK7-004-004	4.0	-4.0	-4.317	-4.295	1.0	1.99
DCV-BK7-006-006	6.3	-6.3	-6.776	-6.752	1.5	3.06
DCV-BK7-010-010	10.0	-10.0	-10.480	-10.577	1.5	4.01
DCV-BK7-012-012	12.5	-12.5	-12.480	-12.643	1.5	4.81
DCV-BK7-016-016	16.0	-16.0	-16.49	-16.775	1.5	5.56
DCV-BK7-025-025	25.0	-25.0	-25.66	-26.16	2.0	8.36
DCV-BK7-040-040	40.0	-40.0	-40.82	-41.74	2.5	12.71
DCV-BK7-050-050	50.0	-50.0	-50.99	-52.15	3.0	15.77

Artifex Optics
Optics for Industry and Research

Fused Silica Plano-Convex Cylindrical Lenses

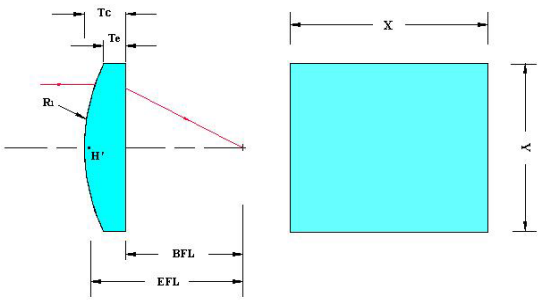
Material: UV Grade Fused Silica
Design Wavelength: 587.6nm; n=1.45848
Dimension Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 3~15 arc minutes
Surface Quality: 40/20 scratch-dig
Clear Aperture: >90%
Bevel : 0.2mmX45^0
Coating : without coating



Catalog No.	X x Y(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCXC-FS-010-050	10.0x10.0	50	48.241	22.92	2.55	2.0
PCXC-FS-010-100	10.0x10.0	100	98.444	45.85	2.27	2.0
PCXC-FS-010-150	10.0x10.0	150	148.516	68.78	2.18	2.0
PCXC-FS-010-200	10.0x10.0	200	198.533	91.70	2.14	2.0
PCXC-FS-010-250	10.0x10.0	250	248.542	114.62	2.11	2.0
PCXC-FS-010-300	10.0x10.0	300	298.567	137.55	2.09	2.0

BK7 Plano-Convex Cylindrical Lenses

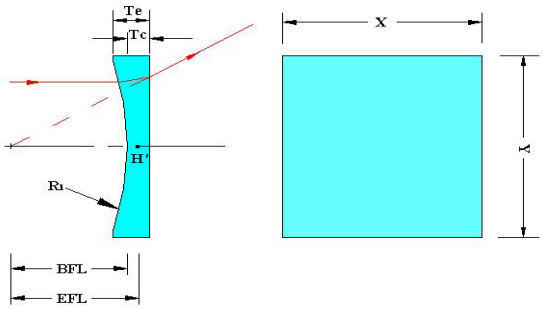
Material: BK7 grade A optical glass
Design Wavelength: 587.6nm
Dimension Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 5~15 arc minutes
Clear Aperture: 90%
Surface Quality: 60-40 scratch-dig
Bevel : 0.2mmX45^0
Coatings: without coating



Catalog No.	X x Y(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCXC-BK7-010-012	10x10	12.7	9.862	6.56	4.31	2.0
PCXC-BK7-010-020	10x10	20	17.835	10.33	3.29	2.0
PCXC-BK7-010-025	10x10	25	23.016	12.92	3.01	2.0
PCXC-BK7-020-012	20x10	12.7	9.862	6.56	4.31	2.0
PCXC-BK7-020-020	20x10	20	17.835	10.33	3.29	2.0
PCXC-BK7-020-025	20x10	25	23.02	12.91	3.01	2.0
PCXC-BK7-020-050	20x20	50	47.352	25.82	4.02	2.0
PCXC-BK7-020-075	20x20	75	72.822	38.73	3.31	2.0
PCXC-BK7-020-100	20x20	100	97.381	51.64	3.98	3.0
PCXC-BK7-020-150	20x20	150	147.602	77.46	3.65	3.0
PCXC-BK7-020-200	20x20	200	197.710	103.28	3.49	3.0
PCXC-BK7-020-250	20x20	250	247.76	129.09	3.39	3.0
PCXC-BK7-020-300	20x20	300	297.81	154.91	3.32	3.0
PCXC-BK7-020-500	20x20	500	497.887	258.18	3.19	3.0
PCXC-BK7-020-1000	20x20	1000	998.207	516.5	3.10	3.0
PCXC-BK7-040-050	40x20	50	47.352	25.82	4.02	2.0
PCXC-BK7-040-075	40x20	75	72.822	38.73	3.31	2.0
PCXC-BK7-040-100	40x20	100	97.381	51.64	3.98	3.0
PCXC-BK7-040-150	40x20	150	147.602	77.46	3.65	3.0
PCXC-BK7-040-200	40x20	200	197.691	103.28	3.49	3.0
PCXC-BK7-040-250	40x20	250	247.76	129.09	3.39	3.0
PCXC-BK7-040-300	40x20	300	297.809	154.91	3.32	3.0
PCXC-BK7-040-500	40x20	500	497.887	258.18	3.19	3.0
PCXC-BK7-040-1000	40x20	1000	998.207	516.5	3.10	3.0

BK7 Plano-Concave Cylindrical Lenses

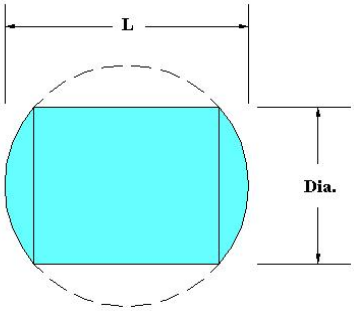
Material: BK7 grade A optical glass
Design Wavelength: 587.6nm
Dimension Tolerance: ±0.2mm
Focal Length Tolerance: ±2%
Centering Tolerance: 5~15 arc minutes
Clear Aperture: 90%
Surface Quality: 60-40 scratch-dig
Bevel : 0.2mmX45^0
Coatings: without coating



Catalog No.	X x Y(mm)	EFL(mm)	BFL(mm)	R_1(mm)	Tc(mm)	Te(mm)
PCVC-BK7-010-012	10x10	-12.7	-14.023	-6.56	2.0	4.31
PCVC-BK7-010-025	10x10	-25.0	-26.320	-12.91	2.0	3.01
PCVC-BK7-020-012	20x10	-12.7	-14.023	-6.56	2.0	4.31
PCVC-BK7-020-025	20x10	-25.0	-26.320	-12.91	2.0	3.01
PCVC-BK7-020-050	20x20	-50.0	-51.322	-25.82	2.0	4.02
PCVC-BK7-020-075	20x20	-75.0	-76.323	-38.73	3.0	3.31
PCVC-BK7-020-100	20x20	-100.0	-101.325	-51.64	3.0	3.98
PCVC-BK7-020-150	20x20	-150.0	-151.987	-77.46	3.0	3.65
PCVC-BK7-020-200	20x20	-200.0	-201.971	-103.28	3.0	3.49
PCVC-BK7-020-250	20x20	-250.0	-251.974	-129.09	3.0	3.39
PCVC-BK7-020-500	20x20	-500.0	-501.969	-258.18	3.0	3.19
PCVC-BK7-020-1000	20x20	-1000.0	-1002.230	-516.5	3.0	3.10
PCVC-BK7-040-050	40x20	-50.0	-51.981	-25.82	2.0	5.02
PCVC-BK7-040-075	40x20	-75.0	-76.983	-38.73	3.0	4.31
PCVC-BK7-040-100	40x20	-100.0	-101.325	-51.64	3.0	3.98
PCVC-BK7-040-150	40x20	-150.0	-151.987	-77.46	3.0	3.65
PCVC-BK7-040-200	40x20	-200.0	-201.971	-103.28	3.0	3.49
PCVC-BK7-040-250	40x20	-250.0	-251.974	-129.09	3.0	3.39
PCVC-BK7-040-500	40x20	-500.0	-501.969	-258.18	3.0	3.19
PCVC-BK7-040-1000	40x20	-1000.0	-1002.230	-516.5	3.0	3.10

BK7 Drum (Barrel) Lenses

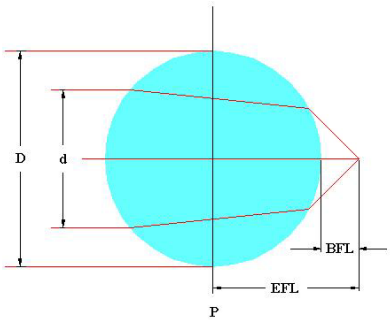
Material: BK7 grade A optical glass
Diameter Tolerance: +0.0/- 0.05mm
Length: ±0.005mm
Surface Quality: 40/20
Coating: without coating



Catalog No.	Diameter(mm)	L(mm)
DL-BK7-020-025	2.0	2.5
DL-BK7-020-030	2.0	3.0
DL-BK7-030-040	3.0	4.0
DL-BK7-040-050	4.0	5.0
DL-BK7-050-080	5.0	8.0

BK7 Ball Lenses

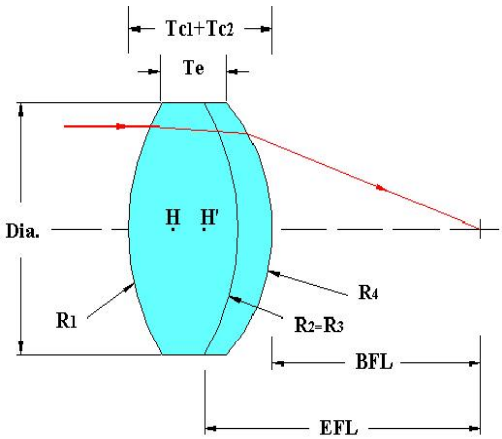
Material: BK7 grade A optical glass
Diameter Tolerance: +/- 0.005mm
Sphericity: ±0.003mm
Surface Quality: 40/20
Coating: without coating



Catalog No.	Diameter(mm)
BL-BK7-001	1.00
BL-BK7-002	2.00
BL-BK7-003	3.00
BL-BK7-004	4.00
BL-BK7-005	5.00
BL-BK7-006	6.00
BL-BK7-007	7.00
BL-BK7-008	8.00
BL-BK7-009	9.00
BL-BK7-010	10.00

Positive Achromatic-Doublets Lenses

Diameter Tolerance: +0.0/-0.1mm
Center Thickness: ±0.2mm
Focal Length: ±2%
Centering Tolerance: 3 ~5 arc minutes
Clear Aperture: 90% Diameter
Surface Figure: λ/4 @ 632.8nm
Surface Quality: 60-40 scratch and dig
Coating: Single layer MgF2 broadband AR coating @550nm
Bevel: 0.25 mmX45°

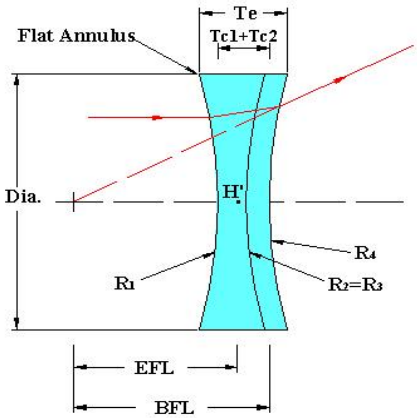


Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	T_C (mm)	T_E (mm)	Lens A	Lens B
DCX-ACHR-003-004	3.15	4.0	2.50	2.90	1.81	BaF5	SF11
DCX-ACHR-004-005	4.0	5.0	3.122	3.63	2.66	BaF5	SF11
DCX-ACHR-004-006	4.0	6.3	4.789	3.59	2.78	BaK2	SF15
DCX-ACHR-006-008	6.3	8.0	5.002	5.80	4.30	BaF5	SF11
DCX-ACHR-006-010	6.3	10.0	7.578	5.69	4.41	BaK2	SF15
DCX-ACHR-006-012	6.3	12.5	10.481	4.44	3.47	BaK2	SF15
DCX-ACHR-006-016	6.3	16.0	14.172	4.00	3.26	BaK2	SF15
DCX-ACHR-006-025	6.3	25.0	23.40	3.63	3.15	BK7	SF12
DCX-ACHR-006-040	6.3	40.0	38.565	3.31	3.01	BK7	SF12
DCX-ACHR-008-016	8.0	16.0	13.776	5.10	3.89	BaK2	SF15
DCX-ACHR-010-016	10.0	16.0	12.688	6.08	4.36	BaF5	SF11
DCX-ACHR-010-020	10.0	20.0	17.223	6.37	4.86	BaK2	SF15
DCX-ACHR-010-025	10.0	25.0	22.909	4.54	3.37	BaK2	SF15
DCX-ACHR-010-040	10.0	40.0	38.061	4.29	3.54	BK7	SF12
DCX-ACHR-010-063	10.0	63.0	61.263	4.02	3.55	BK7	SF12
DCX-ACHR-012-032	12.5	31.5	28.863	5.74	4.28	BaK2	SF15
DCX-ACHR-016-025	16.0	25.0	19.826	9.50	6.66	BaF5	SF11
DCX-ACHR-016-032	16.0	31.5	27.821	7.71	5.28	BaK2	SF15
DCX-ACHR-016-040	16.0	40.0	36.651	7.29	5.41	BaK2	SF15
DCX-ACHR-016-050	16.0	50.0	47.370	5.60	4.12	BaK2	SF15
DCX-ACHR-016-063	16.0	63.0	60.467	5.26	4.04	BK7	SF12
DCX-ACHR-016-100	16.0	100.0	97.531	5.32	4.55	BK7	SF12
DCX-ACHR-020-063	20.0	63.0	59.69	7.05	5.21	BaK2	SF15
DCX-ACHR-020-080	20.0	80.0	77.403	5.58	4.14	BaK2	SF15
DCX-ACHR-025-040	25.0	40.0	34.026	10.74	6.25	BaF5	SF11
DCX-ACHR-025-050	25.0	50.0	45.108	10.30	6.61	BaK2	SF15
DCX-ACHR-025-063	25.0	63.0	58.645	9.21	6.32	BaK2	SF15
DCX-ACHR-025-080	25.0	80.0	76.296	7.70	5.44	BaK2	SF15
DCX-ACHR-025-100	25.0	100.0	96.752	6.98	5.18	BaK2	SF15
DCX-ACHR-025-125	25.0	125.0	122.294	5.74	4.31	BaK2	SF15
DCX-ACHR-025-160	25.0	160.0	157.529	4.90	3.74	BK7	SF12
DCX-ACHR-025-200	25.0	200.0	197.143	5.66	4.73	BK7	SF12
DCX-ACHR-025-250	25.0	250.0	247.771	4.22	3.48	BK7	SF12
DCX-ACHR-025-315	25.0	315.0	312.327	5.01	4.42	BK7	SF12
DCX-ACHR-025-400	25.0	400.0	397.310	4.80	4.34	BK7	SF12

DCX-ACHR-025-500	25.0	500.0	497.05	4.64	4.27	BK7	SF12
DCX-ACHR-032-160	31.5	160.0	156.54	7.34	5.56	BaK2	SF15
DCX-ACHR-032-200	31.5	200.0	196.903	6.11	4.63	BK7	SF12
DCX-ACHR-040-063	40.0	63.0	53.506	16.50	9.63	BaF5	SF11
DCX-ACHR-040-100	40.0	100.0	94.191	11.84	7.19	BaK2	SF15
DCX-ACHR-040-160	40.0	160.0	155.512	9.24	6.37	BaK2	SF15
DCX-ACHR-040-250	40.0	250.0	246.129	7.64	5.73	BK7	SF12
DCX-ACHR-040-400	40.0	411.8	409.021	5.92	4.73	BK7	SF12
DCX-ACHR-050-100	50.0	100.0	91.968	15.89	8.57	BaK2	SF15
DCX-ACHR-050-160	50.0	160.0	151.924	12.37	7.86	BaK2	SF15
DCX-ACHR-050-250	50.0	250.0	245.227	9.56	6.70	BaK2	SF15
DCX-ACHR-050-630	50.0	630.0	626.463	6.30	5.12	BK7	SF12
DCX-ACHR-063-150	63.0	150.00		17.39	9.70	BaK2	SF15

Negative Achromatic-Doublets Lenses

Diameter Tolerance:	**+0.0/-0.1mm**
Center Thickness:	**±0.2mm**
Focal Length:	**±2%**
Centering Tolerance:	**3 ~5 arc minutes**
Clear Aperture:	**90% Diameter**
Surface Figure:	**λ/4 @ 632.8nm**
Surface Quality:	**60-40 scratch and dig**
Coating:	**Single layer MgF2 broadband AR coating @550nm**
Bevel:	**0.25 mmX45°**



Catalog No.	Dia.(mm)	EFL(mm)	BFL(mm)	T_C (mm)	T_E (mm)	Lens A	Lens B
DCV-ACHR-012-025	12.5	-25.0	-27.5	5.67	7.42	BK7	F2
DCV-ACHR-012-040	12.5	-40.0	-42.5	5.34	6.45	BK7	F2
DCV-ACHR-016-040	16.0	-40.0		3.8		SF4	BK7
DCV-ACHR-025-050	25.0	-50.0	-53.3	7.22	10.75	BK7	F2
DCV-ACHR-025-063	25.0	-63.0		6.0		SF4	BK7
DCV-ACHR-025-100	25.0	-100.0		6.90		SF4	SK5
DCV-ACHR-025-160	25.0	-160.0		8.70		SF4	SK5