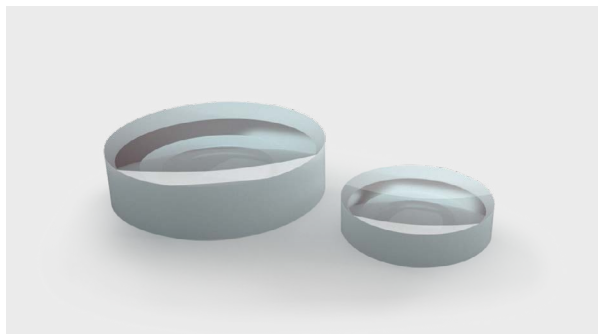


Curved windows



Curved windows are an excellent choice as a substrate of reflective and refractive optical elements. Commonly metallic or dielectric thin-film coatings are applied onto the windows surfaces to be used for a particular application. Standard 4Lasers uncoated curved windows are fabricated from UV grade fused silica glass material. UV grade

fused silica glass curved windows are a good option for UV, ultrashort pulse and high-power laser applications because of a low sensitivity to temperature variations, relatively high damage threshold and UV transmission down to 185 nm.

Main features

- Fabricated from high-quality UVFS glass
- Plano-convex or plano-concave design
- Radii of curvature selection from -1000 mm to 1000 mm
- Coatings, custom substrate material, dimensions are available upon request

Application examples

- High reflectivity mirrors, output couplers in laser resonators
- Reflective and refractive optical elements in beam expanders, collimators, reducers, telescopes

Standard specifications

CURVED WINDOWS	
Substrate material	UVFS
Wavelength range	Uncoated UVFS windows: 185 nm - 2,1 μm
Clear aperture	>85%
Diameter tolerance	+0/-0,1 mm
Thickness tolerance	±0,5 mm
Radius of curvature tolerance	<1%
Centration error	<3 arcmin
Protective chamfers	<0,35 mm at 45°
Surface quality	20-10 S-D
Surface irregularity	<λ/8 @ 632,8 nm
Coatings	Uncoated, available upon request

Standard products

MATERIAL	FACE DIMENSIONS	TYPE	EDGE THICKNESS	ROC	SKU	PRICE
UVFS	ø25,4 mm	Plano-concave	5 mm	-50 mm	6220	55 €
				-100 mm	6256	55 €
				-200 mm	6259	55 €
				-600 mm	6261	55 €
				-1000 mm	6263	55 €
		Plano-convex	3,36 mm	+50 mm	6269	55 €
			4,19 mm	+100 mm	6270	55 €
			4,6 mm	+200 mm	6271	55 €
			4,84 mm	+500 mm	6272	55 €
			4,92 mm	+1000 mm	6273	55 €