

# FITTING GUIDE



## STEP 1 Selecting Lens Size—Limbal Clearance

Trial lenses come with “LCI” limbal curve indicator markings. These markings will assist in determining proper lens diameter. It is recommended that for patients with 11.7mm or smaller, a 15.9mm trial lens should be a first choice. Patients with corneas, 12.0mm or greater, should be fit in the 16.4mm lens. Once on the eye, observe the “LCI” markings in temporal quadrant. If A and or B are over the limbus the diameter is ideal (Fig. A). If the limbus sits beyond B to C, fit a lens .5mm larger (Fig. B). If the limbus sits beyond the third line reference C request at least 1.0mm larger lens on Rx order or through consultation.

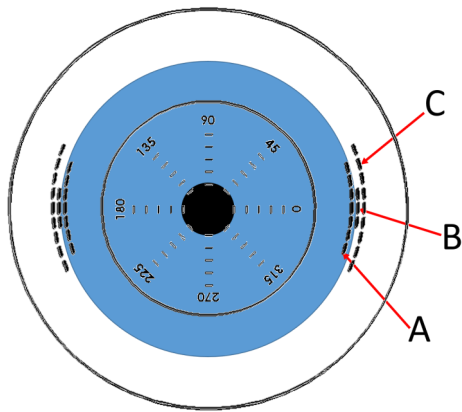


Figure A—Lens is within target no change in diameter.

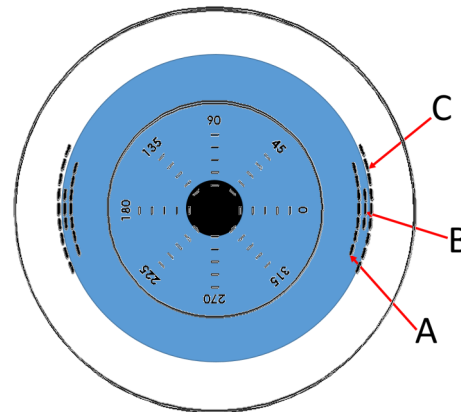


Figure B—Lens too small go 0.5mm larger in diameter

## Troubleshooting Guide

Issue	Cause	Resolve
Corneal Edema	To much vault	Re-evaluate lens SAG with fluorescein. Decrease SAG
Corneal Edema	Lens edge impingement	Flatten PCs/maintain appropriate SAG
Excessive Edge Lift	Low SAG	Re-evaluate lens SAG with fluorescein. Increase SAG
Excessive Edge Lift w/correct SAG	Flat PCs	Steepen PCs
SPK	A preservative solution has been used	Must use preservative free solutions
SPK	Excessive bearing on the corneal apex	Re-evaluate lens SAG with fluorescein. Increase SAG
Decreased Acuity	Metabolic debris	Reorder with toric PCs
Excessive Redness	Tight fit/excessive SAG	Re-evaluate lens SAG with fluorescein. Decrease SAG
Excessive Redness with correct	Tight PCs	Flatten PCs

## STEP 2 Central Clearance

The most difficult parameter to determine on a distorted cornea is the initial trial lens design. The Maxim lens is fit by SAG value and not base curve. However, the base curve does need to mimic the cornea. i.e.: use a steeper base curve on steeper corneas and flatter base curves on flatter asymmetric corneas such as Pellucid, LASIK, and RK eyes. Below is a suggested initial base curve / SAG guide.

Moderate Cone Advanced Cone	Severe Cone Globus Cone	Pellucid	Post Surgical (Sunken - Lasik/RK/PK)	Post Surgical (Bulging) PK
7.50 bc/15.9/4.73 SAG	7.34 bc/16.4/5.41 SAG	7.50 bc/15.9/4.73 SAG	7.85 bc/16.4/4.82 SAG	7.34 bc/16.4/5.41 SAG

## STEP 3 Peripheral Edge Alignment

A proper edge should not lift off of the sclera or more importantly, impinge into it. An edge that lifts excessively will cause lens awareness while an edge that impinges can cause redness and discomfort. If the edge is not aligned with the sclera recheck to make sure that you have an appropriate SAG that vaults the cornea. If you do have the appropriate SAG with an incorrect edge, call our consultation department for advice on peripheral curve changes.

## STEP 4 Over Refract

Lens power is best determined by over-refraction. The spherical and or the cylinder value of the over-refraction are simply added to the trial lens power to determine the correct power.

**The Maxim lens is a scleral lens design used in the treatment for restoration of vision and corneal health in patients with dry eye and corneal irregularities.**

Made with:

