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Helping provide Custom Stable lenses for those who need it most. A discount of up to 85% for those who qualify.

learn more at valleycontax.com
Custom Stable Fitting Set Preparation, Cleaning & Sterilization

1. Wash hands well with contact lens approved hand soap.

2. Clean lens thoroughly with contact lens solution of choice. Custom Stable lenses are manufactured in GP materials. Any cleaner or solution approved for “GP” lenses is approved for use with the Custom Stable.

3. Rinse lens well with preservative free saline.

4. Completely massage conditioning solution into lens, emphasizing the front surface. Focus on the absorption of the conditioning solution into the material.

5. With magnifier or lensmeter verify lens parameters match lens case label.

6. Place lens in conditioning solution and soak until application.

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**Recommended Protocol for Disinfecting Rigid Gas Permeable Contact Lenses**

Place rinsed lens in original lens case. Fill lens well with hydrogen peroxide solution, 3%. Allow for 3-24 hours soaking. Rinse lens and lens case thoroughly with saline or multipurpose contact lens solution (no water). Store lens dry or in conditioning solution (Unique pH, Boston Advanced, Boston Conditioning Solution, etc) for up to 1 month. Cases should be replaced yearly.
Oblate & Prolate Options

The Custom Stable fitting sets are equipped with both the oblate and prolate limbal curve systems. Oblate lenses are flatter in the central curve, utilizing a dynamic reverse curve oblate limbal blend to clear the limbus and transition into a healthy landing zone. Prolate lenses are steeper in the central base curve utilizing the dynamic prolate limbal blend that is designed to customize to the limbus, giving the patient just the right amount of limbal clearance in each design.

Oblate Lenses
Designed for any normal type corneas, as well as post lasik, RK, corneal transplant and mild keratoconus.

Prolate Lenses
Designed for steeper central corneas of any type, all forms of keratoconus and anytime we need to vault over central ectasias.
Custom Stable 510(k) Clearance and Indications for Use

In 2017 the Custom Stable received 510(k) clearance from the FDA for the therapeutic management of several ocular conditions.

The Custom Stable™ rigid gas permeable scleral contact lenses for daily wear are indicated for use for the management of multiple ocular conditions, such as, degenerations that lead to an irregular corneal shape (e.g. keratoconus, keratoglobus, pellucid marginal degeneration, Salzmann's Nodular Degeneration), dystrophies (e.g. Cogan's dystrophy, granular corneal dystrophy, Lattice Corneal Dystrophy), post-surgery (e.g. corneal transplant, LASIK, radial keratotomy), and corneal scarring. The lens may also be prescribed for the management of ocular surface diseases (e.g. dry eye syndrome, Keratoconjunctivitis Sicca (Graft vs Host Disease, Sjogren's syndrome, Filamentary Keratitis), limbal stem cell deficiency, epidermal ocular disorders, neurotrophic keratitis, and corneal exposure/lagophthalmos). When prescribed for therapeutic use, the Custom Stable RGP Scleral Lens is also indicated for correction of refractive error in persons with myopia, hyperopia or presbyopia.
The Custom Stable Elite combines the successful properties of the Custom Stable Prime with a bi-symmetrical toric landing zone. The Elite aligns to the sclera naturally and provides excellent comfort and customization. Fit the Elite with the same sagittal height formulas, check the laser “0”s, and over-refract.

The Custom Stable Prime is an easy fitting lens with a symmetrical landing zone. The entire Custom Stable line provides a reverse geometry limbal curve for consistent limbal clearance, and a wide, healthy landing zone.

The Custom Stable Aurora is a front surface multifocal, with the same back surface as the Elite, that achieves all of the demanding vision distances of today’s presbyopes. It is a design that uses a dominant (distance center)/non-dominant (near center) system that works in unison with the patient and accommodative demands.

*All lens designs available in Oblate and Prolate options.*

**Lens Sizes**

**14.8** The perfect lens for pediatrics, small apertures/corneas, or when corneal clearance requirements are minimal.

**15.8** The Go-to lens on most fits. Combines a great amount of clearance options, with a wider, softer landing zone.

**16.8** Perfect lens when the 15.8 does not give the balance of clearance and a healthy landing zone. Incredible versatility when fitting pronounced corneas.

**17.8** Our highest sagittal option in the series. Use when the patient has large aperture, extreme clearance needs, or previous scleral wear experience.
Select Your Starting Lens

Use HVID, K readings, and/or sagittal height of the cornea to determine initial lens selection.

**HVID**
If HVID is 11.5 or less, start with the 14.8 diameter.
If HVID is 11.6 or greater, start with the 15.8 diameter.
If HVID is greater than 12.5, or sagittal need is high, use the 16.8 or 17.8

**Sagittal Height**
If using anterior segment OCT, use the 15 mm chord sagittal height of the cornea, then adjust according to which lens you are using:
- 14.8 – add 250 µm
- 15.8 – add 550 µm
- 16.8 – add 850 µm
- 17.8 – add 1100 µm

**K Readings**
K reading can also accurately determine the starting lens. Flatter K readings generally need less sagittal height, while steeper K's need more height. Use the following formulas to get started.

- **14.8** – Convert the flat K to microns. For example: 41.50 flat K, converts to a 4150 sagittal height. Then subtract 400 µm. Use this value as your starting sagittal depth.
- **15.8** – Convert the flat K to microns and start with the closest available sagittal depth.
- **16.8** – Take flat k, and add 350 microns.
- **17.8** – Take flat k, and add 650 microns.
Apply the Lens

Use preservative free saline and ensure the lens is clean.

The care and handling of the Custom Stable line of lenses consists of the use of solutions labeled safe for all GP contact lenses. It is important that the lens is very clean on both surfaces and that no cleaning solution is left on the back surface of the lens. The lens is then filled with Preservative Free Saline and applied, with the patient’s head parallel to the floor.

We provide many online digital resources on our website at valleycontax.com. Among them is our easy to follow “Care and Handling” tutorial video. Please refer to it as a visual aid. valleycontax.com/video/?vid=2

Find fitting videos and support at valleycontax.com and youtube.com/user/ValleyContaxLens
Perform a Preliminary Check on the Fit

Check for application bubbles.
At the point of application, quickly scan the lens for the presence of application bubbles, if so, remove immediately and insert again. A common cause of application bubbles are sudden, Rapid Eye Movements by the patient at the moment of application. Assure that the patient stays calm, breathes and has a fixation point down near their feet. If initial application shows adequate clearance and a healthy looking landing zone, approve initial diagnostic lens.

Allow the lens to settle 20-30 minutes
Allowing the lens to settle during the diagnostic phase is a key element of success. Settling time allows the fitter to accurately analyze landing zone alignment. See page 8 for customization of the scleral landing zone.
STEP 4

At this point there should be between 150-250 microns of central clearance. If the central clearance is outside of 150 to 250um, remove the lens and move to a more appropriate sagittal height in the fitting set. If the central clearance is within 150 to 250 microns, use CCZ (central clearance zone) adjustment to customize Sag Height. See chart for adjustment amounts.

Check for 150-250 microns of central clearance and notate lasering to verify lens parameters.

Central Clearance Zone

Credit: Ferris State University

Find fitting videos and support at valleycontax.com and youtube.com/user/ValleyContaxLens
Limbal Independent Transfer Zone

Reduce excessive limbal clearance, elbow compression and blanching.

The LiTe zone of the Custom Stable should exhibit between 50-100µm clearance before settling. To adjust for excessive limbal clearance use the LiTe Customization system. This system allows for up and down limbal curve adjustment without affecting the overall sagittal depth or central clearance of the lens. The diagram to the right shows the four steps of the LiTe option. Each step creates 50 microns of change over the limbus.

The LiTe Option can also be used to reduce compression and blanching in the limbal or scleral zones.
Scleral Landing Zone

Make sure there is no impingement.

The health and flow of the conjunctival vessels are a key component of a healthy, successful fit. It is important to see these vessels flowing smoothly. The Scleral Landing Zone (SLZ) is the component of the lens that controls the alignment of the lens to the sclera. There should be no NaFl under the SLZ, as it should be perfectly aligned. The SLZ utilizes a step system to adjust for customization. Refer to the chart to make your SLZ adjustments.

CUSTOM STABLE ELITE & AURORA system allows for individual meridian customization of the Scleral Landing Zone. The laser marked “0”s notate where the flat landing zone is located.

<table>
<thead>
<tr>
<th>Adjustment Type</th>
<th>Change to Landing Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ (plus)</td>
<td>flatter SLZ</td>
</tr>
<tr>
<td>- (minus)</td>
<td>steeper SLZ</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sagittal Depth Change per Step of Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 micron</td>
</tr>
</tbody>
</table>
**STEP 6**

**Over-refract**

custom stable | Prime

If fitting the Custom Stable Prime, attempt to get the patient to a successful line of vision without the use of refractive cylinder. If needed, customized refractive cylinder can be added to the front surface at any axis by the traditional use of prism ballast to orientate cylinder. Simply perform over refraction with cylinder and axis and our team will do the rest.

custom stable | Elite

When using the Custom Stable Elite and a front toric is needed our system locks in cylinder without the use of prism or ballasting. This system keeps the weight of the lens minimal to promote corneal health. Use the diagnostic markings on the trial lenses to analyze position of flat landing zone and communicate with the Valley Contax consultants appropriately. We incorporate the LARS system to compensate for the location of the flat meridian of the landing zone (laser "0"s). **It is important to refer to the 0/180 meridian as the baseline for this rotation.** See examples on the next page.

**TIP:** be sure to perform the “spin test” by manually rotating and check that rotation is repeatable before ordering CS front torics.
Custom Stable Elite Front Toric Ordering

Notate the SLZ marks

It is very important to notate the location of the flat SLZ marks on the Custom Stable Elite trial lens on fits. If a front toric is required, use these fitting examples.

Figure 1: CS Elite lens with 0° rotation

Figure 2: CS Elite with 90° rotation

Figure 3: CS Elite with 30° right rotation

Figure 4: CS Elite with 30° left rotation
Double check rotation.

When ordering front torics, the custom toric lens will have rotation double check lasered marks. These will be on the 90 or 270 meridian if the rotation is consistent and documented properly.

Figure 5: A Custom Stable Elite lens with 30 degrees right rotation and rotation double check mark to show what the toric lenses will look like.

Find fitting videos and support at valleycontax.com and youtube.com/user/ValleyContaxLens
CUSTOM STABLE LENS MARKS

(All examples with 0° rotation)

- CS Prime
- CS Prime Front Toric
- CS Elite / Aurora
- CS Elite / Aurora Front Toric
- CS Quad / Edge Vault

- CS Prime Fitting Set
- CS Elite Fitting Set
- CS Aurora Fitting Set

- 785
- 785
- D785
- N785

CUSTOM STABLE
Custom Stable Aurora

The back surface of the CS Aurora is that of the CS Elite (toric periphery) use the fitting principals listed under the CS Elite section. Over-refract the patient with a spherical component only. Attempt to achieve good visual acuity without over-minusing the patient. Simply record dominant eye, add power and the basic elements of Custom Stable fitting: central clearance, limbal clearance and a healthy, aligned Scleral Landing Zone.

Lens Options

• The CS Aurora is available with center zones of 1.0mm-3.5mm. Fitting sets contain options of distance and near in standard zone sizes of 1.5 (Clear), 2.0 (Green) and 2.5 (Blue).

• 6.0 mm intermediate add zone on both eyes. This gives progressive add power on the distance lens and our progressive "reverse add" on the near lens.

• Add power is available +1.00 to +3.50
DOMINANT EYE

No Perceived Near Vision
- Consider Switching To Near Center
  - If Issue Still Persists
    - Larger Near Center Zone

Inadequate Near Vision
- Smaller Distance Zone
  - OR

Inadequate Distance Vision
- More Minus Power
  - OR

Ghosting In Distance
- Larger Distance Zone
  - OR

More Minus Power
- Bigger Distance Zone
  - OR

Bigger Distance Zone
- Consider Cylinder Over-Refraction

TROUBLE SHOOTING GUIDE
Consider Cylinder Over-Refraction

Less Minus Power

Larger Near Zone

Higher Add Value

More Minus Power

Smaller Distance Zone

Lower Add Value

Consider Cylinder Over-Refraction

Larger Near Zone

Larger Near Zone

Higher Add Value

Inadequate Near Vision

Inadequate Distance Vision

Ghosting In Distance

Lower Add Value

Inadequate Near Vision

Inadequate Distance Vision

Inadequate Near Vision

Inadequate Distance Vision

Raise Add Power (OU)

Lower Add Power (OU)

Add +.25

Add -.25
Advanced Options

The Custom Stable Elite and Custom Stable Aurora designs can be further enhanced using the advanced options on the pages that follow.
Custom Stable Quadrant Specific Option

Advanced customization for the perfect fit.

The quadrant specific version of the Custom Stable system is designed to perfect the fitting when the bi-symmetrical techniques are not sufficient. To fit the quadrant specific lens:

1. Locate and document the rotation of the flat landing zone mark’s “0”s (from the 0/180 corneal meridian).

2. Quadrants are labeled 1-4 in a CCW direction. The right side “0” is always quadrant #1.

3. Both the LITE (limbal independent transfer) zone and the SLZ are independently customizable in each of the 4 quadrants.

4. Simply communicate to the Valley Contax consultation team the specifics of the fit. (Example: LITE 360: +1 // SLZ Q1, Q3: +5 // SLZ Q2: -3 // SLZ Q4: +1)

5. Custom Stable quadrant specific lenses will have a vertical hash mark and drill dot marker with ink that is designed for patients to insert at 270 (down) (see example).
Quadrant Specific Option Examples

Notate and document location of “0”s and customization requests.

Here are some examples of Custom Stable quadrant specific lenses rotated, indicating the location of each quadrant respective to lens rotation. To customize the LItE (limbal independent transfer) zone or SLZ, specify the quadrant and how many microns of clearance change is needed.
Custom Stable Edge Vault Option

Easily vault over elevations in the limbus/sclera.

Edge Vault is employed from the back surface of the Custom Stable Elite and allows you to vault over extremely high sections of the cornea/limbus due to a pinguecula or any other form of elevation. To specify simply communicate:

1. Rotation of the flat meridian (laser “0”s) from the 0/180 meridian of the eye.
2. Distance in degrees from Quadrant 1 (CCW)
3. Desired width in degrees of Edge Vault
4. Required height of Edge Vault (available up to 600 µm)
5. Custom Stable lenses with edge vault will have a vertical hash mark and drill dot marker with ink that is designed for patients to insert at 270 (down) (see example).
Edge Vault Option Examples

Notate the location and width of the edge vault.

Here are some examples of rotated Custom Stable lenses with edge vault, indicating the location respective to quadrant one. The width is specified in degrees.

**Figure 1**
- 90°
- 180°
- 270°
- CS Elite lens with 0° rotation
- Edge Vault at 180° and 20° wide

**Figure 2**
- 90°
- 180°
- 270°
- CS Elite with 90° rotation
- Edge Vault at 90° and 30° wide

**Figure 3**
- 90°
- 180°
- 270°
- CS Elite with 30° right rotation
- Edge Vault at 330° and 40° wide

**Figure 4**
- 90°
- 180°
- 270°
- CS Elite with 30° left rotation
- Edge Vault at 210° and 30° wide
## Troubleshooting Guide

<table>
<thead>
<tr>
<th>Objective</th>
<th>Findings</th>
<th>Probable Cause</th>
<th>Suggested Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Probable Cause</strong></td>
<td><strong>Findings</strong></td>
<td><strong>Probable Cause</strong></td>
<td><strong>Suggested Action</strong></td>
</tr>
<tr>
<td>too much limbal/central clearance</td>
<td>lens rides low</td>
<td>vertical meridian of SLZ too flat</td>
<td>flatten CCZ &quot;+&quot; (100 µm/step)</td>
</tr>
<tr>
<td>too steep CCZ</td>
<td>excessive clearance</td>
<td>too steep CCZ</td>
<td>steepen vertical SLZ &quot;-&quot; 1-2 steps</td>
</tr>
<tr>
<td>too flat CCZ</td>
<td>minimal clearance</td>
<td>too flat CCZ</td>
<td>increase sagittal depth / choose steeper lens / steepen CCZ</td>
</tr>
<tr>
<td>too much limbal clearance</td>
<td>conjunctival prolapse/chelasis</td>
<td>too much limbal clearance</td>
<td>flatten LITe zone &quot;+&quot; (50 µm/step)</td>
</tr>
<tr>
<td>SLZ too steep</td>
<td>blanching at edges</td>
<td>SLZ too steep</td>
<td>check location of flat meridian / flatten SLZ accordingly</td>
</tr>
<tr>
<td>too steep of LITezone</td>
<td>impingement at elbow</td>
<td>too steep of LITezone</td>
<td>flatten LITe zone &quot;+&quot; (50 µm/step)</td>
</tr>
<tr>
<td>too flat of SLZ</td>
<td>edge lift off</td>
<td>too flat of SLZ</td>
<td>steepen SLZ (-1 step)</td>
</tr>
<tr>
<td>SLZ too flat</td>
<td>cloudy after 2 hours or more</td>
<td>tear exchange</td>
<td>perform NaFl test check location of flat meridian/stEEPen SLZ accordingly</td>
</tr>
</tbody>
</table>
Contact Us

Contact a Valley Contax consultant for free instant consultation and to place your order. You can call us, email or chat live with us via our website.

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Valley Contax recommends Contamac Optimum lens materials for Custom Stable lenses.