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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.

**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.
**custom stable | Prime**

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.

**custom stable | Elite**

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 Elite is available in the traditional oblate design, as well as a prolate design for ectasias and more pronounced cones.

**custom stable | Aurora**

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.

**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 Sagittal Height

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](http://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.
Check for 150-250 microns of central clearance and notate lasering to verify lens parameters.

At this point, there should be between 150-250 microns of central clearance, and clearance over the limbus. The limbal clearance will not be as high as the central clearance, however limbal "bearing" must be avoided (see photo).

The Limbal Clearance Zone (LCZ) is a system that controls the vault of the lens over the limbus to the central curvature. Refer to the chart to make your LCZ adjustments.

**Limbal Clearance Zone – LCZ**

<table>
<thead>
<tr>
<th>Adjustment Type</th>
<th>Change to Sagittal Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ (plus)</td>
<td>flatter LCZ (lower sagittal depth)</td>
</tr>
<tr>
<td>− (minus)</td>
<td>steeper LCZ (higher sagittal depth)</td>
</tr>
</tbody>
</table>

Sagittal Depth per Step of Adjustment

~100 micron

find fitting videos and support at valleycontax.com and youtube.com/user/ValleyContaxLens
Analyze Peripheral Alignment

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>

**Sagittal Depth Change per Step of Adjustment**

30 micron
STEP 6

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.
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

DISTANCE

NEAR
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
No Perceived Near Vision
- Consider Switching To Near Center
- If Issue Still Persists
  - Larger Near Center Zone
Inadequate Near Vision
- Smaller Distance Zone
  - Less Minus Power
Inadequate Distance Vision
- More Minus Power
  - Bigger Distance Zone
Ghosting In Distance
- Larger Distance Zone
  - Consider Cylinder Over-Refraction

DOMINANT EYE

TROUBLE SHOOTING GUIDE
Consider Cylinder Over-Refraction

Less Minus Power
Inadequate Near Vision

More Minus Power
Larger Near Zone

Smaller Distance Zone
Higher Add Value

Lower Add Value

Ghosting In Distance

Consider Cylinder Over-Refraction

Larger Near Zone

Smaller Distance Zone
Higher Add Value

Lower Add Value

Inadequate Distance Vision

Inadequate Near Vision

Inadequate Distance Vision

Raise Add Power (OU)

Add +.25

Lower Add Power (OU)

Add -.25

BOTH BINOCULAR VISION

Inadequate Near Vision

Inadequate Distance Vision
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 LCZ 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: LCZ 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 LCZ or SLZ, specify the quadrant and how many microns of clearance change is needed.

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

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

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

- **Figure 4**
  - CS Elite with 30° left rotation
  - Edge Vault at 210° and 30° wide
The Custom Stable line of lenses is focused on constant limbal clearance. The Limbal Lite Option is designed to reduce clearance over the limbus when it is excessive. The change maintains overall sagittal depth of the lens as well as overall central clearance. The diagram to the right shows the four steps of the Limbal Lite option. Each step reduces exactly 50 microns of clearance over the limbus.

The Limbal Lite Option can also be used to reduce compression and blanching in the limbal or scleral zones.
## Troubleshooting Guide

<table>
<thead>
<tr>
<th>Findings</th>
<th>Probable Cause</th>
<th>Suggested Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>lens rides low</td>
<td>too much limbal/central clearance</td>
<td>flatten LCZ &quot;+&quot; (100 µm/step)</td>
</tr>
<tr>
<td></td>
<td>vertical meridian of SLZ too flat</td>
<td>steepen vertical SLZ &quot;-&quot; 1-2 steps</td>
</tr>
<tr>
<td>excessive clearance</td>
<td>too steep LCZ</td>
<td>lower sagittal depth / choose flatter lens / flatten LCZ</td>
</tr>
<tr>
<td>minimal clearance</td>
<td>too flat LCZ</td>
<td>increase sagittal depth / choose steeper lens / steepen LCZ</td>
</tr>
<tr>
<td>conjunctival prolapse/chelasis</td>
<td>too much limbal clearance</td>
<td>flatten LCZ (+1 step) / use limbal lite</td>
</tr>
<tr>
<td>blanching at edges</td>
<td>SLZ too steep</td>
<td>check location of flat meridian / flatten SLZ accordingly</td>
</tr>
<tr>
<td>impingement at elbow</td>
<td>too steep of LCZ</td>
<td>flatten LCZ (+1 step) / use limbal lite</td>
</tr>
<tr>
<td></td>
<td>too flat of SLZ</td>
<td>steepen SLZ (-1 step)</td>
</tr>
<tr>
<td>edge lift off</td>
<td>SLZ too flat</td>
<td>check location of flat meridian / steepen SLZ accordingly</td>
</tr>
<tr>
<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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valleycontax.com (live chat)
contax@valleycontax.com

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