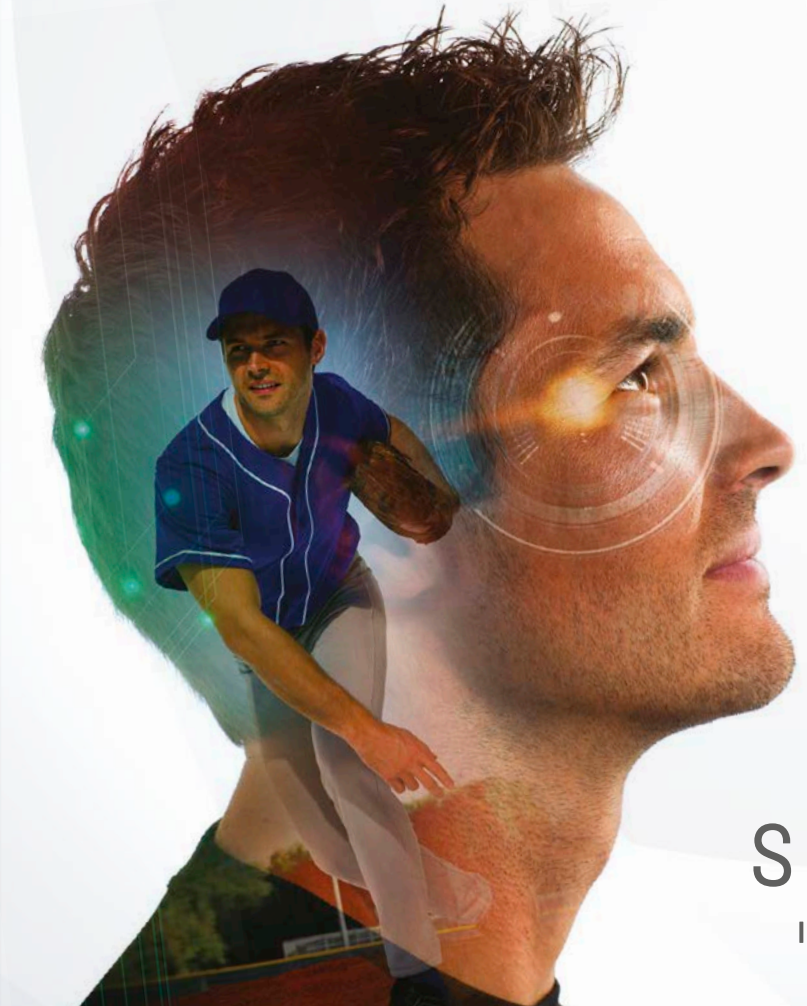
Duette®
CONTACT LENSES

Duette®
PROGRESSIVE
CONTACT LENSES

FITTING GUIDE



SynergEyes

SPECTRUM
INTERNATIONAL

Duette® CONTACT LENSES

Duette® PROGRESSIVE CONTACT LENSES

The unique advanced-technology Duette hybrid contact lenses are ideal for patients with astigmatism or presbyopia, especially those who have experienced discomfort with GP lenses or frustration with fluctuating soft toric vision. Duette provides the optimal, clear vision of a GP lens, with soft lens comfort. The hybrid design eliminates rotation issues experienced with soft toric lenses, while providing stable centration for excellent visual acuity. The Tangible™ Hydra-PEG coating provides increased lubricity, while the SoftCushion® Comfort Technology enhances tear exchange and lens movement.

Duette lenses offer high performance vision for those with corneal astigmatism, while Duette Progressive addresses presbyopic patient needs as well.

Duette Progressive is available in both Center Distance and Center Near designs to allow further vision correction customization. The Center Distance lens has adjustable center distance optics: the Center Distance zone size ranges from 1.8 - 4.0mm, driven by photopic pupil size. Add powers range from +0.75 to +5.00D. The Duette Progressive Center Near design provides a seamless progression of power from near to distance, and a choice of three add powers.

Fitting Duette is straightforward. Lenses may be fit empirically without the need for diagnostic sets or fluorescein. Provide Ks, Rx and HVID, with add power and pupil size, to create the initial lens. The Duette Empirical Calculator (DuetteCalculator.com) can be used to help select the initial lens.

Duette Product Matrix

The Duette Product Matrix outlines product offerings based on the continuum of normal corneal conditions. Practitioners can move patients between hybrid contact lenses during the fitting process without returning lenses or incurring exchange or cancellation fees.

Spherical Eye: Myopia and Hyperopia	Duette
Corneal Astigmatism up to 2.25D	Duette
Corneal Astigmatism 2.50D or more	Duette Enhanced Profile
Normal Cornea with Presbyopia	Duette Progressive Near or Distance Zone
Presbyopia with Corneal Astigmatism up to 2.00D	Duette Progressive Near or Distance Zone
Presbyopia with Corneal Astigmatism 2.25D or more	Duette Progressive Enhanced Profile Near or Distance Zone

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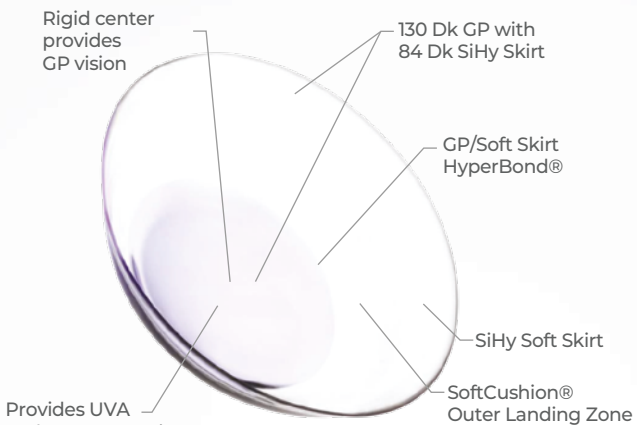
Hybrid Contact Lenses for Astigmatism

Fitting Guidelines

The initial pair of **Duette** lenses can be designed empirically based upon corneal curvatures and spectacle prescription. The optimal fit is a lens that centers the optics over the pupil and moves 0.5 to 1.0mm with each blink.

Duette Lens Design



NOTE: Drawing not to scale

Parameters

Base Curves (mm)	Skirt Curves	Diámetro (mm)	Lens Power (D)	Materials	Enhanced Profile
7.1 to 8.3 in 0.1mm steps	8.1 (Medium) 8.4 (Flat) 8.7 (Flat2)	14.5	+10.00 to -15.00D +8.00 to -8.00D in 0.25D steps +8.50 to +10.00D in 0.50D steps -8.50 to -15.00D in 0.50D steps	• 130 Dk GP center • 84 Dk SiHy skirt • Class II UVA / UVB Blocker* • Tangible Hydra-PEG Coating Option	Center Thickness option available

Hybrid lenses are for daily wear. Recommended replacement at 6 months.

*See package insert

Initial Lens Order

Use Duette lens calculator at DuetteCalculator.com or follow the guidelines below.

1. Begin with new refraction and corneal curvature measurements.

2. Select the lens base curve based on the flat corneal curvature. The Initial Base Curve should be 0.50 to 0.75D steeper than flat K.

Conversion Chart

mm	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3
Diopters	47.50	46.87	46.25	45.62	45.00	44.37	43.75	43.25	42.75	42.25	41.75	41.25	40.75

3. The soft skirt size is best determined by HVID measurements. If HVID is larger than 11.8, start with an 8.1 skirt. If HVID is 11.8 or smaller, an 8.4 skirt is indicated. If HVID measurements are not available, begin with an 8.4 skirt.

4. Select the power based on the spherical portion of the spectacle prescription (not spherical equivalent). Compensate power for the tear lens. For example: if the base curve is 0.50D steeper than the flat K, add -0.50D to that spherical prescription. If the distance spherical prescription is greater than ±4.00D, adjust for vertex distance.

5. Place order lenses at **sales@spctinternational.com** or call Customer Care at **+1 (470) 208-7030 Ext. 803.** If you have questions or need assistance with lens design, contact our senior consultant at **+1 470-816-4005 Ext. 810** or **consultations@spctinternational.com.**

Lens Dispensing Visit

- Insert both lenses and allow at least 10 minutes for the patient to adapt.
- The lenses should center well with 0.5 - 1.0mm movement with the blink.
- Check visual acuity.
- Refrain from making changes to the lens power or fit at the dispensing visit.
- Reassure the patient that it is normal to have adaptation symptoms and lens awareness for the first 3-5 days.
- Dispense with lens solution system.
- Schedule follow-up visit in one week.

Follow-up Visit

1. Review wearing times, and lens handling and care.
2. Assess lens movement, comfort and centration. Lens should move similar to a soft lens on blink or nudge.
3. Verify lens to cornea relationship is within acceptable range (0.50 to 0.75D steeper than flat K).

To enhance lens fit, follow these recommendations:

Lens Movement and Comfort
Add a drop of preservative-free lubricant in the bowl of the lens prior to insertion.
Flatten the skirt to increase movement.
Steepen the skirt curve if there is fluting or excessive movement.

Lens Centration
Steepen base curve, if necessary, not to exceed 1.00D steeper than K.
Steepen the skirt curve.

4. Check visual acuity

To fine-tune vision on a well-fitting lens, follow these recommendations:

- Confirm the lens power with spherical over-refraction.
- Simply add over-refraction to the power of the lens and order exchange lens.
- If unable to improve vision with spherical over-refraction, check for residual astigmatism. Duette lenses will not correct for residual (lenticular) astigmatism.

Note: If problem still persists, call Technical Consultation at +1 470-816-4005 Ext. 810

If lenses with new parameters are ordered, evaluate the fit, and visual acuity each time. Once the final lens design and prescription is achieved, notify SynergEyes to send a second pair of sealed Duette lenses to complete the annual supply. The recommended replacement schedule is every six months.

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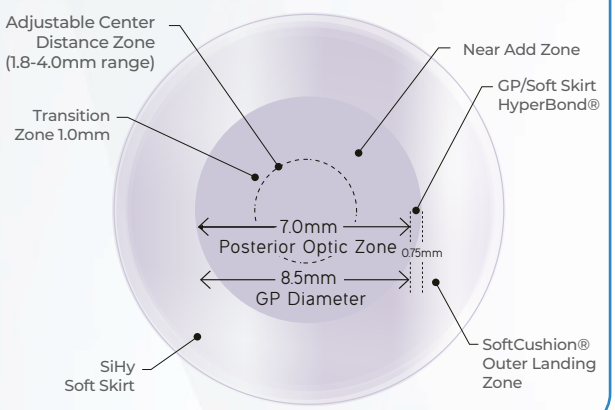
Hybrid Contact Lenses for Presbyopia

Fitting Guidelines

The initial pair of **Duette Progressive** lenses can be designed empirically based upon corneal curvatures, spectacle prescription, add and pupil size. The optimal fit is a lens that centers the optics over the pupil and moves 0.5 to 1.0mm with each blink.

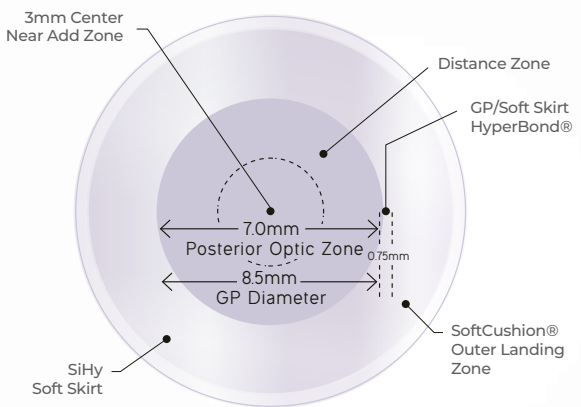
Center Distance (CD) Design

Adjustable Central Distance Zone (mm): 1.8 – 4.0
Add Powers (D) +0.75 to +5.00 in 0.25D Steps



Center Near (CN) Design

Central Near Zone (mm) 3.0
Add Powers (D) +1.00, +1.75, +2.50



NOTE: Drawings not to scale

Parameters

Base Curve (mm)	Skirt Curves	Diameter (mm)	Len Power (D)	Materials	Enhanced Profile
7.1 to 8.3 in 0.1mm steps	8.1 (Medium) 8.4 (Flat) 8.7 (Flat2)	14.5	+5.50 to -10.00D +5.50 to -8.00D in 0.25D steps -8.50 to -10.00D in 0.50D steps	• 130 Dk GP center • 84 Dk SiHy skirt • Class II UVA / UVB Blocker* • Tangible Hydra-PEG Coating Option	Center Thickness option available

Initial Lens Order

Use Duette lens calculator at DuetteCalculator.com or follow the guidelines below.

1. Begin with new refraction and corneal curvature measurements.
2. Select the lens base curve based on the flat corneal curvature. The Initial Base Curve should be 0.50 to +0.75D steeper than flat K.

Conversion Chart

mm	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3
Diopters	47.50	46.87	46.25	45.62	45.00	44.37	43.75	43.25	42.75	42.25	41.75	41.25	40.75

3. Determine Progressive Design. Design is driven by spectacle add power..

Spectacle Add	+0.75	+1.00	+1.25	+1.50	+1.75	+2.00	+2.25	+2.50
Design: Dominant Eye	CD	CD	CD	CD	CD	CD	CN	CN
Design: Non-Dominant Eye	CD	CD	CD	CD	CD/CN	CD/CN	CN	CN

CD=Center Distance *CN=Center Near*

4. Determine Pupil Diameter and Add Power.

If prescribing Center Distance, provide Photopic Pupil Diameter and Add Power.

- Center Distance Zone size is driven by **photopic** pupil diameter. Measure **photopic** pupil diameter for each eye. pectrum will provide initial CD zone based on provided photopic pupil measurement. (CD zone size will equal **photopic** pupil size minus 1.00mm)
- Determine Add Power

Spectacle Add	+0.75	+1.00	+1.25	+1.50	+1.75	+2.00	+2.25	+2.50
CD Add Power (D)	+0.75	+1.00	+1.25	+1.50	+1.75	+2.00	+2.25	+2.50

If prescribing Center Near (1 zone size), choose Powers.

- Select the distance power based on the distance spherical prescription (not spherical equivalent). Compensate power for the tear lens. For example: if the base curve is 0.50D steeper than the flat K, add -0.50D to the distance prescription. If the distance spherical prescription is greater than ± 4.00D, adjust for vertex distance.
- Select the add power based upon the patient's refraction and age. Add powers should always be kept at minimum strengths as the basic eccentric design produces a minimal amount of add on its own.

Age	40-45	46-55	56+
Spectacle Add	+1.50 and below	+1.75 to +2.25D	+2.50 and above
Duette Progressive Add	+1.00D	+1.75D	+2.50D

5. The soft skirt size is best determined by HVID measurements. If HVID is larger than 11.8, start with an 8.1 skirt. If HVID is 11.8 or smaller, an 8.4 skirt is indicated. If HVID measurements are not available, begin with an 8.1 skirt.*

6. Place order lenses at **sales@spctinternational.com** or call Customer Care at **+1 (470) 208-7030 Ext. 803.** If you have questions or need assistance with lens design, contact our senior consultant at **+1 470-816-4005 Ext. 810** or **consultations@spctinternational.com.**

Fitting Tips

- Always begin with a new refraction and corneal readings. Avoid over-minusing.
- Identify the dominant eye.
- Measure the **photopic** pupil diameter **OU.**
- Determine lens parameters using the fitting chart.
- Add powers should always be kept at minimum strengths as the basic eccentric design produces a minimal amount of add on its own.

Lens Dispensing Visit

- Insert both lenses and allow at least 10 minutes for the patient to adapt.
- The lenses should center well with 0.5 - 1.0mm movement with the blink.
- Check visual acuity with room lights on.
  - Check for acceptable binocular distance acuities (photopic).
  - Test near performance using the patient's cell phone.
- Refrain from changing parameters on day of dispense.
- Instruct/remind the patient regarding neuroadaptation.
  - Reassure the patient that it is normal to have adaptation symptoms for the first 7-10 days.
  - Vision will improve day by day until the first checkup is performed.
  - Be patient with the adaptation process.
- Dispense with lens solution system.
- Schedule follow-up check for 10 days to 2 weeks.

*If lenses do not have the Tangible Hydra-PEG coating, begin with an 8.4 skirt.

Follow Up Visit

1. Review wearing times, and lens handling and care. Check acuities binocularly at distance and near (photopic). Verify comfort.
2. Check for lens centration and movement using biomicroscope. If lens is decentered, the patient may experience ghosting or blurred vision that can't be improved with an over-refraction.

Decentered Lens	Tight Lens
Re-order the lens with .1mm steeper base curve. This will provide a more stable fit with improved vision.	Re-order the lens with flatter radius skirt. This will provide more movement with the blink.

3. If lenses are centered with optimal movement, perform monocular distance over-refraction with hand-held lenses. Determine that neither lens is over-minused by more than -0.25D. A small power change can have a large impact on distance and near vision. The lens will not correct residual (lenticular) astigmatism.

Lens Optimization (if needed)

LCenter Distance (CD) Lens: Begin by confirming photopic pupil measurements for each Center Distance eye

Blurred Distance Vision and Good Near Vision

1. Over-refract with sphero-cylindrical technique to rule out residual astigmatism

- If residual astigmatism is the cause of blurring, determine with patient if vision is sufficient.
  - If vision is not sufficient, compensate with additional spherical power or discontinue fit.

2. If sphero-cylindrical refraction is normal with little/no residual astigmatism, increase CD zone size by .3mm

Good Distance Vision and Blurred Near Vision	Blurred Distance and Night Flare and Glare	Blurred Distance and Blurred Near Vision
1. Decrease CD zone by .3mm **2.** If blurriness persists, recheck reading distance, and decrease CD zone size by .3mm OR increase add power as needed.	Increase CD zone by .3mm	**1.** Determine if there is significant residual astigmatism. If so, call consultation. **2.** Consider different lens design or discontinue fit.

Center Near (CN) Lens:

Blurred Distance Vision	Blurred Near Vision
Goal is to optimize distance vision without over-minusing.	Goal is to optimize near vision with maximum prescribed distance plus power.
To improve distance vision, reduce add power in the dominant eye **OR** Alternate method to improve distance vision is to fit a Duette single vision distance lens in the dominant eye	To improve near vision, add +0.25 to +0.50D to the non-dominant eye distance power **OR** Alternate method to improve near vision is to increase add power in the non-dominant eye or both eyes.
Re-order lens with least amount of power change to achieve optimal vision. Avoid making dramatic changes.	Re-order lens with least amount of power change to achieve optimal vision.

Note: If problem still persists, call Technical Consultation at +1 470-816-4005 Ext. 810

Reminder:
The majority of adaptation symptoms diminish over time. Patient reassurance is always helpful when treating presbyopia.

If lenses with new parameters are ordered, evaluate the fit and visual acuity each time. Once the final lens design and prescription is achieved, notify SynergEyes to send a second pair of sealed Duette Progressive lenses to complete the annual supply. The recommended replacement schedule is every 6 months.

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