

DELTA Plus Contact Lenses

Fitting Guide





CONTENTS

1. Why Delta bifocal and choosing a presbyopic lens
2. Ordering empirically
3. Top tips for fitting
4. Fit assessment
5. Top tips for visual assessment
6. Toric over refraction
7. Fitting using a trial set
8. Materials
9. Parameters
10. Troubleshooting
11. Warranty



1. WHY DELTA BIFOCAL?

- The Delta bifocal is a modern equivalent of a tangent streak bifocal. The benefits to the patient are single vision quality distance vision and on downgaze reading glasses vision
- For the practitioner, the lenses provide ease of fitting as the back surface is the same as CC design. This provides a straightforward fitting process with a predictable outcome and an easy transition for existing wearers who are emerging presbyopes.
- The Delta has a front surface segment is adjustable on both position and angle, comes in and is available as a spherical or bi-toric design.
- Manufactured on the freeform Lathe2i, these lenses are produced to a high level of accuracy with excellent surface quality. This is combined with fast delivery times, supporting your clinic time management.
- This is the ideal lens for fits up to 9.80mm with an extensive range of parameters* including adjustable edge lift. Delta is also available in a range of materials in order to maximise surface quality and enhance the patient's wearing experience*
- Delta Bifocal lenses can be ordered empirically or fitted from a CC trial set

*see 'materials and parameters' section for more information



1. CHOOSING A PRESBYOPIC LENS

Patient description	Possible options in corneal GP
Existing wearer of a well fitting CC or other multicurve corneal GP	Delta Bifocal Monovision
General distance near vision requirements	Procurve Plus Re5 Bifocal Delta Bifocal Monovision
Average sized pupils	Procurve Plus Delta Bifocal Monovision
More demanding near vision tasks	Re5 Bifocal Monovision
Low to medium add/early presbyope	Procurve Plus Monovision
High add	Re 5 Bifocal Monovision
Small pupils 3.5mm or below	Re5 Bifocal Monovision
Larger diameter cornea	Procurve Plus Monovision (Procurve)



2. ORDERING EMPIRICALLY

STEP 1

Measure K's and note these, along with spec rx
and BVD

STEP 2

Choose your material*

**See 'materials' section for more information*

STEP 3

Visit us to place your order

<https://www.scotlens.com/new-lens-order/>

Or email us lab@scotlens.com

SCOTLENS
CUSTOM FIT CONTACT LENSES

Specialist Contact Lens Manufacturer

Search...

About Lenses Practitioner Support **Ordering Lenses** Blog Media Contact

ACCOUNT INFORMATION

Account Name *
Add your Account Name here*

Account Number *
#

Prescriber Name *
Add your Prescriber Name*

Email Address *
Add your Email Address here*

LENS ORDER FORM

Please supply either desired lens specification or ocular measurements.

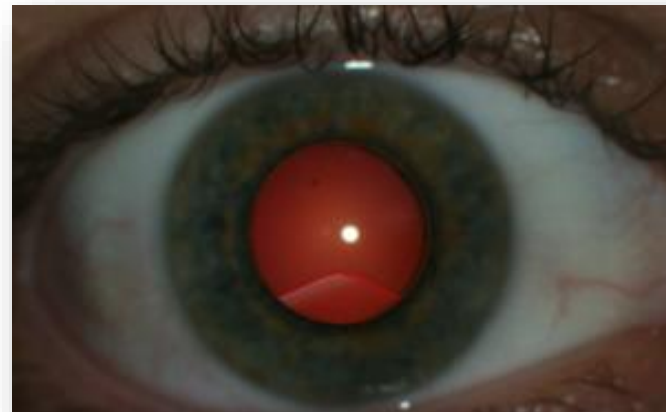
PX Reference *

3. TOP TIPS FOR FITTING

- For new wearers, instil anaesthetic to optimise initial patient experience
- Assess lens fit with fluorescein and yellow filter at the slit lamp
- With toric lenses, note any rotation using flat axis marks (- -)
- To assess the seg position, direct ophthalmoscopy can show how the lens locates and moves post blink

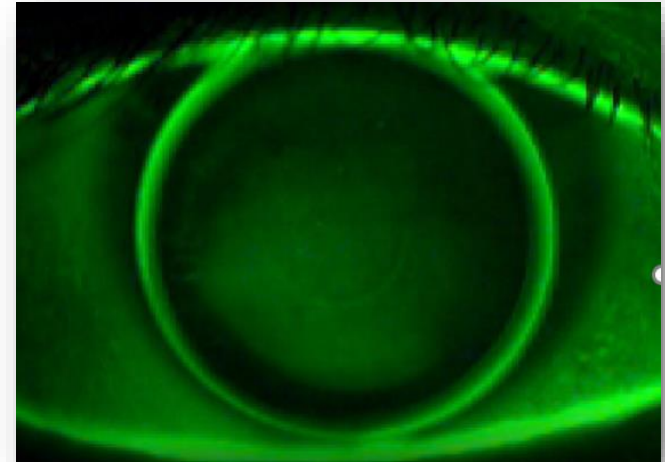
Look for the segment in the pupil red reflex.

Use low illumination to keep the pupil size relatively normal

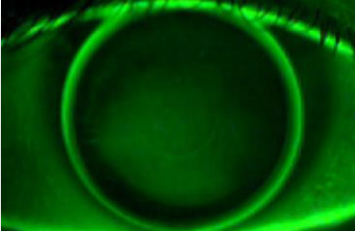
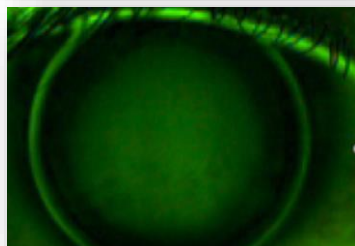
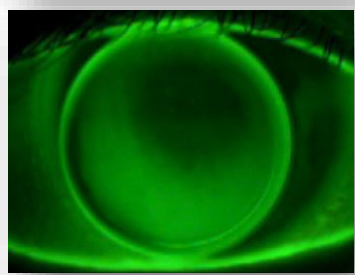


4. FIT ASSESSMENT: CENTRATION:

- Central position is essential to ensure translation takes place on downgaze
- Aligned on the flat BOZR
- Lowest acceptable diameter to prevent it decentring downwards
- Fitted to a patient with pupil size over 4.0mm



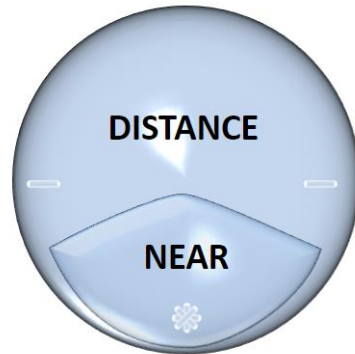
4. FIT ASSESSMENT: BACK SURFACE

Fluorescein pattern	Description	Action
	<p>Optimum Fit</p> <p>Approx 2mm post blink movement. Drops quickly post blink</p>	<p>None required</p>
	<p>Steep Fit</p> <p>Little post blink movement. Unlikely to translate sufficiently</p>	<p>Flatten BOZR 0.1mm and adjust power by 0.50</p>
	<p>Flat Fit</p> <p>Sits low and is liable to miss-rotation</p>	<p>Steepen BOZR 0.1mm and adjust power by 0.50</p>

4. FIT ASSESSMENT: THE FRONT SURFACE SEGMENT

Delta Standard

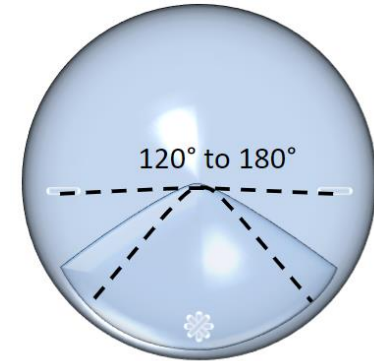
Segment 0.5mm below
lens centre



Delta Custom

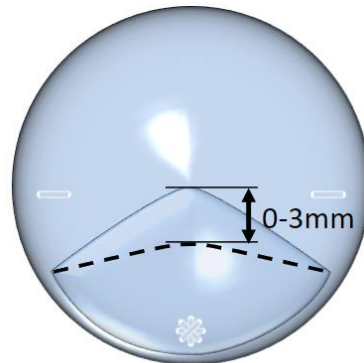
Segment angle 120° to
180°

Standard is 150°



Delta Custom

High seg on HCL
Specify below up to 3.0mm



Delta toric

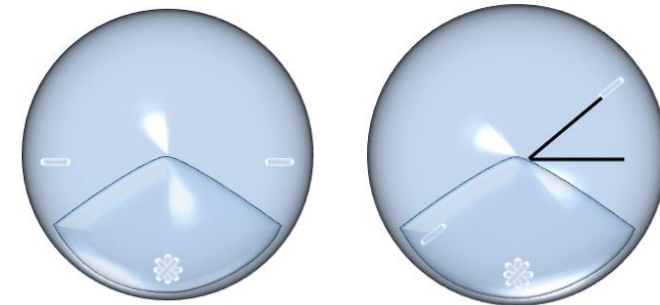
* Marks segment base

Position at 6 o'clock
(+35° is acceptable)

Flat axis indicated by - -

Back surface toricity
stabilises lens

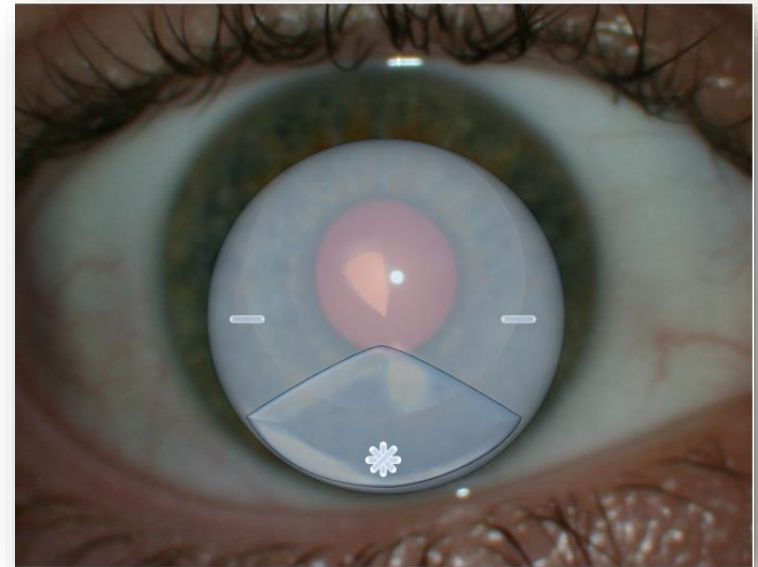
Insert lens with segment
down



4. FIT ASSESSMENT: FRONT SURFACE SEGMENT IDEAL POSITION

To avoid distortion with distance the segment top should be placed on the pupil margin.

On down gaze translation will provide reading vision

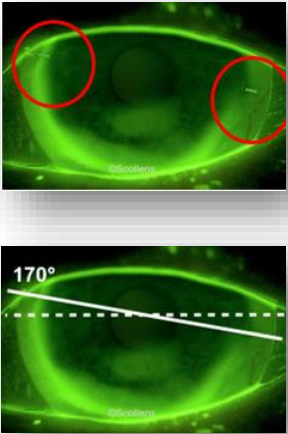
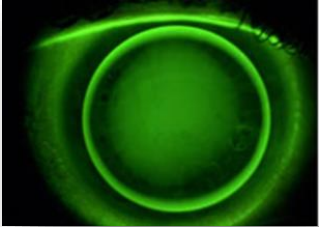
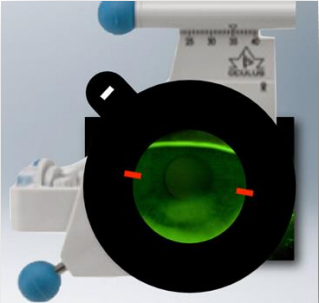




5. TOP TIPS FOR VISUAL ASSESSMENT

- Assess the acuity with a distance chart and check the lens power with spherical over refraction.
- If monovision is the target, note the minus over refraction in the reading lens for optimum distance vision
- With toric lenses, align cross cyl with the rotation of the flat axis markings (--)

6. TORIC OVER REFRACTION

Locate	Adjust	Over Refract	Combine
<p>Locate the flat meridian axis marks on a fully settled toric lens. These should be aligned to within 20 degrees of the flattest K reading and be stable</p> 	<p>If there is rotation of the markings, address any issues with the fit by adjusting the BOZR before attempting a toric over refraction</p> 	<p>Carry out your over refraction with the minus cyl axis aligned with the lens markings as shown</p> 	<p>The sphere power is combined with both meridians, and the minus cyl power is combined with the steep meridian, as the cyl power is at 90 degrees to the axis</p> <p>This information can then be recorded on the online form on the website www.scotlens.com</p>



7. FITTING USING A TRIAL SET

K's	BOZR	Rx Adjustment
0.00 to 1.75 D Cyl Ks differ up to 0.35	Select back optic zone radius 0.1mm steeper than flat K	Add -0.50 to the spec Rx sphere*
Over 2.00 D Cyl Ks differ 0.40 or more, fit CC toric	K FLAT BOZR -0.05mm K STEEP BOZR +0.05mm	Power Flat meridian add -0.25 to the spec rx* Power Steep meridian add +0.25 to the spec rx*

*Spectacle Rx should be minus cyl form.
Correct for BVD is spec Rx is over ± 4.50



8. MATERIALS

	Dk	Material	Recommended Application
LOW	11	F2 Low	Daily wear for lenses below 9.00mm
	17	Scotlens GP1 (No exchange)	
	18	Boston ES	
	26	Contamac Optimum Classic	
MID	58	Boston EO	Daily wear for lenses below 10.00mm
	65	Contamac Optimum Comfort	
	40	Paragon HDS	
HIGH	100	Boston XO	Night lenses, daily wear, extended wear, scleral and corneoscleral
	100	Acuity 100	
	100	Contamac Optimum extra	
	100	Paragon HDS 100	
HYPHER	125	Contamac Optimum Extreme	All day wear, extended wear, corneal pathology present, 6 monthly frequent replacement, sclerals
	141	Boston XO2	
	160	Optimum Infinite	
	200	Acuity 200	



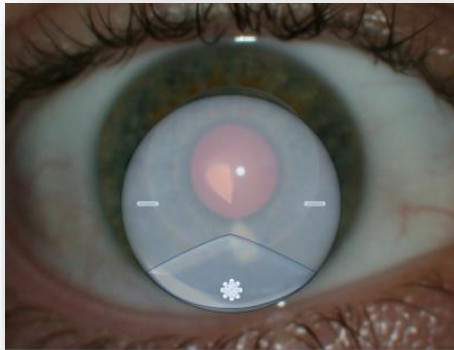
9. PARAMETERS

BOZR	4.00-12.00mm
Diameter	9.50mm or custom
Power	Spherical+/-25.00D Toric <8.00 dioptres between meridians
Back Surface	Spherical Toric (>1.50mm between meridians)
Front surface	Spherical or toric
Add range	+0.75-+3.00D
Axial edge lift	140µm or specify

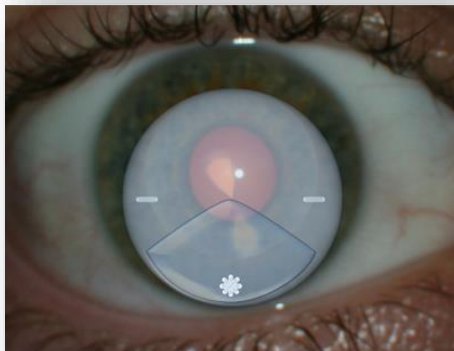
10. TROUBLESHOOTING

Observation	Modification
Fluorescein pattern shows an alignment fit but lens is riding low	Increase the total diameter by 0.5mm
Fluorescein pattern shows an alignment fit but lens is riding high	Steepen the lens if slightly flat or increase the total diameter by 0.5mm
Fluorescein fit shows alignment but there is excessive movement	Increase the total diameter by 0.5mm
Lens is dropping in an arcuate pattern	This can indicate a flat fitting so double check the fluorescein pattern, by gently centring the lens manually if necessary
Poor wetting	Consider changing the material, for example Boston EO
3 & 9 o'clock staining	This can be caused by poor centration, a lens that is fitting too flat or can be linked to tear film issues. Manage the underlying cause first and if the staining persists, try adjusting the diameter or back surface design or send us images for advice

10. TROUBLESHOOTING POOR ALIGNMENT OF THE FRONT SURFACE SEGMENT



If the lens sits low then the segment height can be increased
Increasing lens diameter may also help.



If the segment height is too high the patient will become aware of distortion in the distance



11. WARRANTY

RETURNS, EXCHANGES & CREDITS

- Lenses come with standard exchange.
- Order the adjusted power lens(es), patient can continue to wear initial pair.
- New lenses will arrive with a warranty card. Issue the new lenses and return initial with warranty card.
- Standard exchange is one free exchange, thereafter 50%, within 3 months of initial order. There is a £4 administration charge per lens.
- Any right that you have to reject the goods as not complying with the contract or delivery note/invoice must be exercised within 5 days of delivery.
- See current price list for full current T&C.



t: 01506 844272 | e: lab@scotlens.com | w: scotlens.com

Scotlens Ltd, Mill Road Industrial Estate, Linlithgow, EH49 7SG