



# Nissel Custom Fitting Guide

## FITTING PROCEDURE

- Full refraction and eye examination.
- Keratometry.
- Select diameter minimum 2.00-3.00mm larger than HVID. A larger diameter may be more beneficial depending on purpose.
- Select base curve based on K readings.

The following offers a starting point, for larger diameters and further information please contact us to assist with calculations.

Lens Diameter (mm)	Steep K's ≤ 7.70mm	Average K's 7.80mm – 8.35mm	Flat K's ≥ 8.35mm
	Order base curve flatter than flattest K by (mm):		
13.00 & 13.50	0.70	0.30	0.20
14.00 & 14.50	1.10	0.70	0.60
15.00 & 15.50	1.50	1.10	1.00

- Order power calculated from spectacle Rx and adjusted for BVD. Please contact us if help is needed with conversions or with toric prescriptions, and for parameters outside of the above range.
- If the eye requiring the lens cannot be measured, then the other eye can be used as a guide.
- Order a fitting lens.

## Fitting Lenses

Up to 2 fitting lenses will be supplied at no charge. It is important that a fitting lens is used as there is no exchange or credit facility with this lens type.

### Standard Spherical

- Clear Pupil
- White opaque iris
- Blue handling tint

### Dynamically Stabilised lens

**For toric prescriptions or when the iris/pupil needs to be decentred.**

- White opaque lens
- Clear pupil – Toric lens only
- Grey iris
- Blue handling tint
- Markings on lens to measure rotation

## Modality

Nissel Custom lenses are designed to last up to 12 months, the lens may need to be replaced more frequently, dependent on the wear and care and will be determined by the eye care professional. Some patients may find that due to the composition of their tears the opaque in the lens fades, for these patients it is helpful for them to have two working lenses, so that one can be returned to us for re-opaquin whilst one is being worn (restrictions apply).

## Care

Hydrogen peroxide and multipurpose systems may be used. Please contact us for information on caring for tinted lenses.

## Lens Fit

Insert lens and allow the lens to settle for 30 minutes.

Characteristic	Good Fit	Steep Fit	Flat Fit
Comfort	Good	Good initially	Poor
Centration	Good	Often good	Often poor
Coverage	Full limbal coverage in all directions of gaze	Often good	Poor
Edge	Good	May cause conjunctival indentation/blanching	Edge stand-off/fluting
Movement with blink	Good	Inadequate- None	Excessive
Push up test	Easily moved/recentres	Difficult to displace/slow recenteration	Easily moved/poor recenteration

- If the base curve or diameter needs to be adjusted, then we would suggest ordering another fitting lens with the adjusted parameters.

### Once happy with the fit, proceed with the following;

- Carry out an over-refraction. If a toric lens has been fitted, please see our Hydro Range fitting guide for further information.
- Measure any rotation (toric or stabilised lenses only). The lens will have 3 lines engraved on the inferior part of the lens. The lines are 15° apart, and the central line should sit at 6 o'clock. The position of the central line should be noted, to determine the direction and angle of lens rotation.
- Measure any offset required. This is where you will want the pupil to be on the final lens. This should be measured in mm from the centre of the fitting cross on the lens. The direction of offset also needs to be recorded both horizontally and vertically.
- Measure the pupil diameter in average illumination – if the eye is too damaged then use the other eye.
- Measure the Iris diameter - if the eye is too damaged then use the other eye.
- Choose the lens colour required from the swatch or take photographs. Take a photo of the good eye (to be used for a colour match), the eye requiring the lens (it is important that our artists know what they are covering) and both eyes together with a piece of white paper or the swatch resting on the forehead. See notes below on how to take the image.
- The photograph should be emailed to us in Jpeg format rather than printed and sent by post.
- The Nissel Custom swatches can also be used to advise us of the condition of the eye to be covered and of the closest colour match required for the lens.

## Image Guidelines

- Specialist photographic equipment is not necessary, smart phones/tablets can be used to take the image.
- The image should be taken between 6 & 12 inches away. A close image is not always the best.
- The picture is best taken with as much natural light as possible making sure NOT to have the light source behind the subject.
- The image must be in focus, we are not able to accept distorted images.
- The white paper held on the forehead enables our artists to adjust the image on their computer screens to get a better colour match.
- We only require a photograph of the eyes. This is reassuring for some sensitive patients and for patient confidentiality/data protection reasons.