BAUSCH + LOMB

Zenlens®

scleral lenses

FITTING GUIDE

WELCOME TO ZENLENS®

This guide is designed to help you understand the Zenlens® scleral lens features and customization options available to you. After reviewing, you will be able to navigate the fit set, confidently fit the lens, troubleshoot when necessary, and place orders for your appropriate patients.

ZENLENS® SCLERAL LENS PARAMETERS

CUSTOMIZABLE PARAMETERS				
Diameters	14.8 mm	15.4 mm	16.0 mm	17.0 mm
Sagittal depth range	3500 to 5000 in 10 micron steps		3200 to 6700 in 10 micron steps	
Lens type	Oblate • Prolate • Toric		Oblate • Prolate • Toric	
Spherical powers	-20.000 to +20.000			
Advanced Peripheral System (APS)	Spherical • Steep-10 to Steep-1 • Flat+1 to Flat+20			
Options	Toric peripheral curves • Front toric Rx • MicroVault™ technology • Bi-elevation • Multifocal • Quadrant-specific APS • Tangible® Hydra-PEG®			
Fitting Set Configurations	Spherical peripheral curves • Toric peripheral curves • Large and small diameters • Six empty slots for custom diagnostics			

MULTIFOCAL CUSTOMIZABLE PARAMETERS				
Diameters	14.8 mm	15.4 mm	16.0 mm	17.0 mm
Lens type	Variable center-near with adjustable zone size 1.5 mm to 3.5 mm in 0.5 mm steps			
ADD powers	+1.00D to +3.75D in 0.25D steps			

ZENLENS® SCLERAL LENS CUSTOMIZATION

Patented SmartCurve™ technology for a simplified fit

Automatically adapts to ensure most other design attributes remain consistent when parameters are modified

MicroVault™ technology to accommodate obstructions

Creates a flute or ripple that vaults up and over obstructions to properly land on the sclera and ensure a comfortable fit

Advanced Peripheral System (APS) for a generous landing zone

Designed to reduce the occurrence of air bubbles, lens impingement, and conjunctival impression rings when properly fit

Decentered multifocal optics to address presbyopia

Aligns the near zone over the visual axis instead of the center of the cornea, which has been shown to provide clear vision in soft multifocal contact lenses

Bi-elevation for evaluating and managing lens decentration

Designed to help center the lens and provide better scleral alignment vertically

Quad-Sym Technology to help maintain precise alignment with the sclera in four meridians

Allows for independently adjustable limbal curves

Tangible® Hydra-PEG® coating technology for enhanced lens wettability and comfort is available as an optional add-on.

ASK YOUR SALES REPRESENTATIVE FOR MORE DETAILS ABOUT ANY OF THESE FEATURES.

ZENLENS® SCLERAL LENS MARKINGS

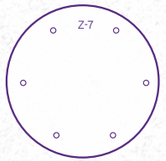
For appropriate lens diameter selection, the six drill dots should land on or up to 0.5 mm outside the limbus

DX TORIC APS

- Six drill dots at LCC
- Two drill lines at 0° and 180° meridian
- Black drill dot at 270° base
- Laser-etched Dx number for positive ID

RX TORIC

- Two drill lines at 0° and 180° meridian
- Black drill dot at 270° base OD (shown)
- Two black drill dots at 270° base OS
- Laser-engraved ID at 90°



DX SPHERICAL

- Six evenly spaced drill dots at the beginning of the landing zone
- Laser-etched Dx number for positive ID

RX SPHERICAL

- Black drill dot on right lens OD (shown)
- No dots OS
- Laser-engraved ID

RX TORIC APS W/FRONT TORIC

- Two drill lines at 0° and 180° meridian will align to the corresponding axis of scleral toricity on the eye
- Black drill dot at 270° base OD (shown)
- Two black drill dots at 270° base OS
- Laser-engraved ID at 90°

RX TORIC APS

- Two drill lines at 0° and 180° meridian will align to the corresponding axis of scleral toricity on the eye
- Black drill dot at 270° base OD (shown)
- Two black drill dots at 270° base OS
- Laser-engraved ID at 90°

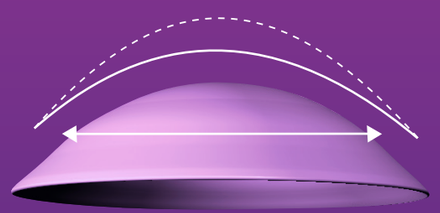
Each Zenlens® scleral lens has distinct markings that make it easier to clearly identify the lens type, as well as a diagnostic number on it. The drill markings on toric and multifocal lenses can help guide patient insertion.

TIP

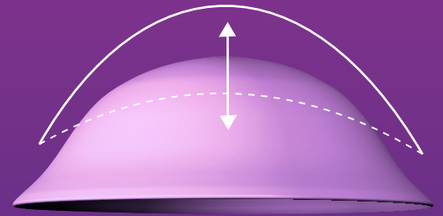
The number at the 12 o'clock position is the same as the order reference number on Rx lenses. Numbers ending in 10 are the OD lenses, and numbers ending in 20 are the OS lenses.

NAVIGATING THE ZENLENS® FIT SET

PROLATE



OBLATE



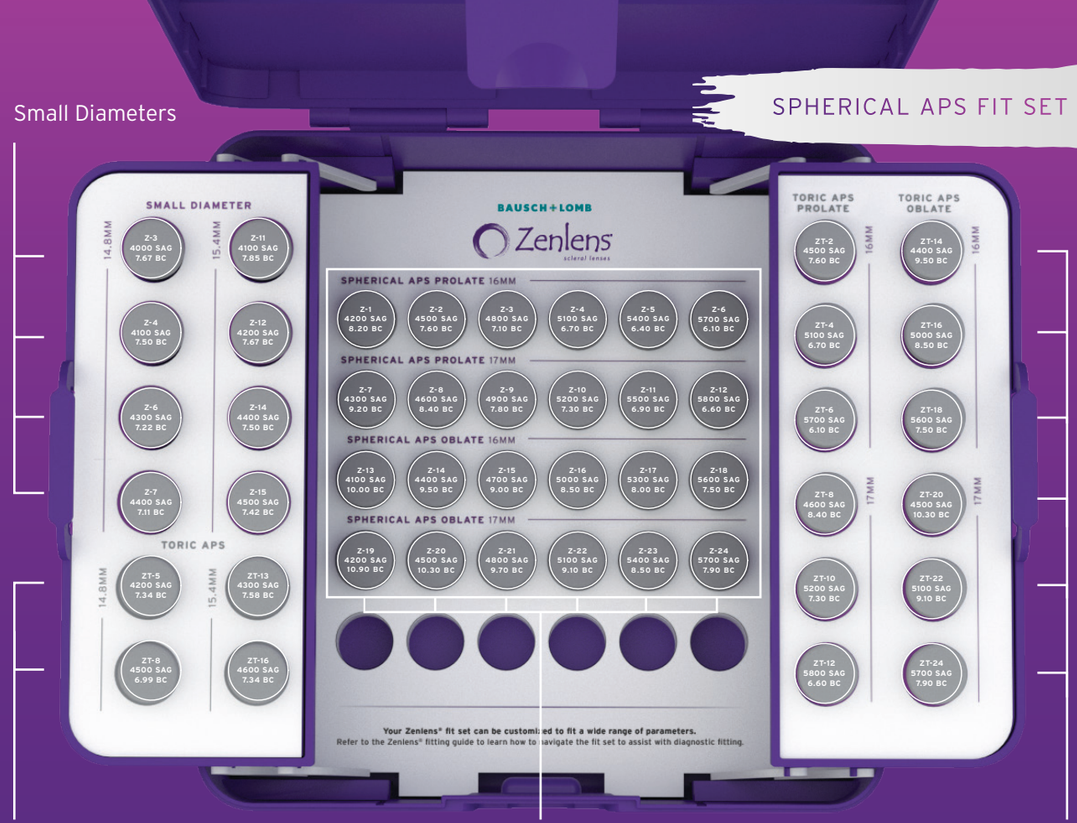
Four diameters (14.8 mm, 15.4 mm, 16.0 mm, 17.0 mm)

Toric peripheries

TIP: Scan the code to take a virtual tour of the fit set

SPHERICAL APS FIT SET

Small Diameters



Toric Peripheries

Large Diameters

Toric APS

USING TORIC PERIPHERAL CURVES

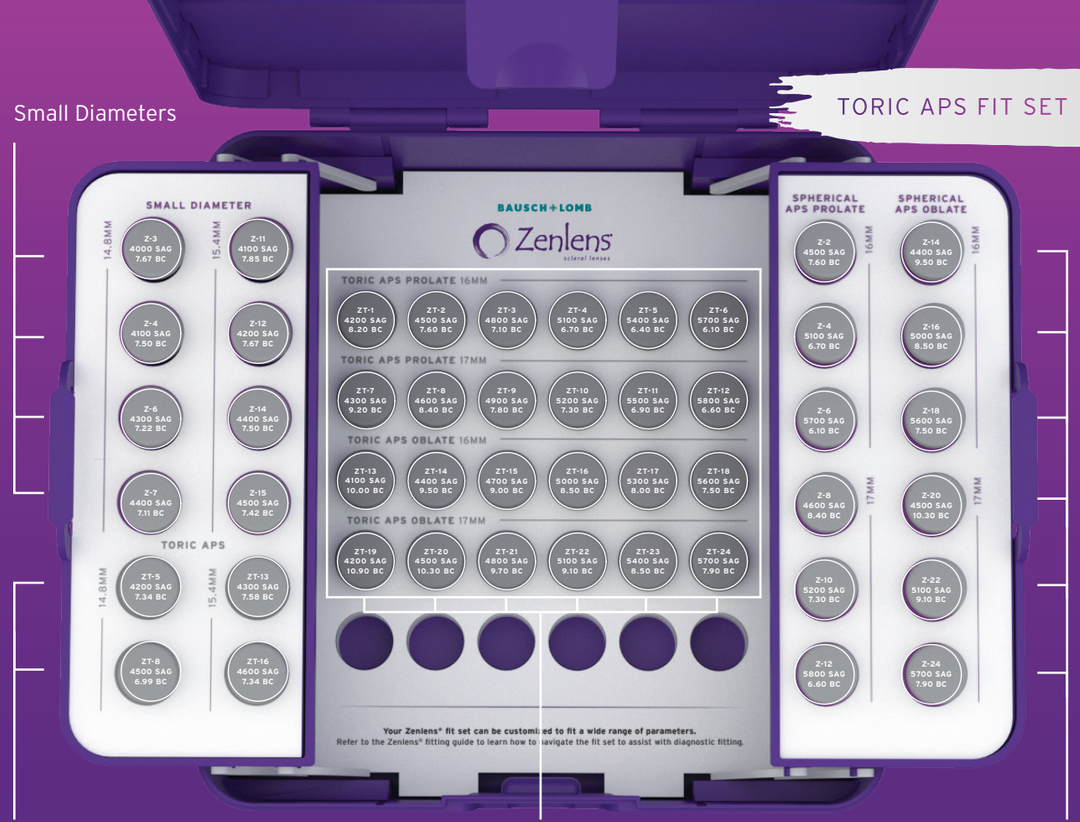
- Zenlens® peripheral curves are known as the Advanced Peripheral System (APS). The APS can be ordered with spherical or toric peripheral curves
- Lenses with back surface toricity should be considered when areas of compression or edge lift are observed when evaluating the APS
- Toric APS diagnostic lenses can be used as a guide to better understand how to adjust and customize the lens fit
- Toric APS lenses can be ordered in 30-micron steps

TIP

Consultants are available to help with toric APS lens fitting, as necessary.
Email your questions to **svp.consultation@bausch.com**

TORIC APS FIT SET

Small Diameters



Toric Peripheries | Large Diameters | Spherical APS

THE 3 STEPS FOR SCLERAL LENS FITTING SUCCESS

There are 3 fundamental steps for scleral lens fitting success:

1

SELECT

Choose a diagnostic lens

2

ASSESS

Evaluate clearance

3

REFRACT

Finalize prescription

1

SELECT: CHOOSE A DIAMETER

To choose a diagnostic lens, start by measuring Horizontal Visible Iris Diameter (HVID) to determine the correct diameter to use for the initial lens fit.

Select lens diameter based on HVID measurement or estimation.

- If HVID is 11.7 mm or less, the 14.8 mm or 16.0 mm diameter lens is recommended
- If HVID is greater than 11.7 mm, the 15.4 mm or 17.0 mm diameter lens is recommended

Evaluate the limbal dots. The six drilled dots should land on or up to 0.5 mm outside the limbus.

- If the drill dots land inside the limbus, increase the lens diameter
- If the drill dots land greater than 0.5 mm outside the limbus, decrease the lens diameter

SELECT: EXAMINE DISEASE STATE

Once the patient's HVID and appropriate diameter have been determined, examine the patient's disease state to help you choose a prolate or oblate lens.

Select the lens design based on corneal shape or indication.

- You may use the prolate design for patients with:

  Keratoconus Ocular surface disease

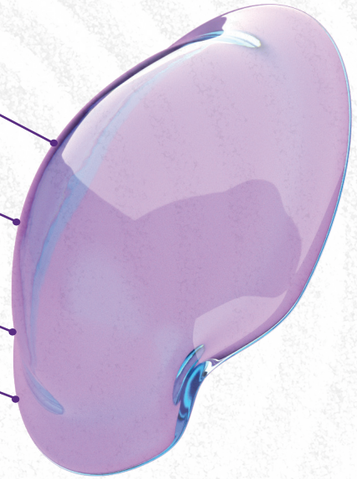
- You may use the oblate design for patients with:

  Postgraft Post refractive surgery Corneal marginal degenerations

2 ASSESS: EVALUATE CLEARANCE

There are 4 components to a successful fit with Zenlens®:

1. **Proper Central Vault**
   Adjust Lens SAG
2. **Mid-Peripheral Clearance**
   Adjust Base Curve
3. **Limbal Clearance**
   Adjust Limbal Clearance Curve
4. **Scleral Alignment**
   Adjust Peripheral Curve (APS) including possible toric APS



ALL ZENLENS® 16.00-MM AND 17.00-MM DIAGNOSTIC LENSES ARE 350 MICRONS THICK.
ALL 14.8-MM AND 15.4-MM DIAGNOSTIC LENSES ARE 250 MICRONS THICK.

1. CENTRAL VAULT

- Central vault should equal the center thickness of the diagnostic lens
  - **250 microns** for small diameters
  - **350 microns** for large diameters
- If the clearance is inadequate or there is central touch, apply the next deeper lens from the diagnostic set

2. MID-PERIPHERAL CLEARANCE

- Large-diameter lenses should have **200 microns** of clearance
- Small-diameter lenses should have **150 microns** of clearance

3. LIMBAL CLEARANCE

- Large-diameter lenses should have **100 microns** of clearance
- Small-diameter lenses should have **75 microns** of clearance

4. SCLERAL ALIGNMENT

- All diagnostic lenses come in a standard peripheral curve system
- If the lens is too tight, it can be ordered flatter or steeper

3 **REFRACT:** FINALIZE PRESCRIPTION

To finalize your prescription, you should: **Perform over-refraction**

If cylinder is present in the over-refraction, or if you don't obtain BCVA once over-refraction is completed, do keratometry over the lens for flexure

IS THE LENS FLEXING?	IS THE LANDING ZONE ALIGNMENT UNIFORM IN THE PRIMARY MERIDIANS?	SOLUTION
YES	YES	**Request Flex Control Factor of 1** Adds 100 microns of thickness
YES	NO	**Request Toric APS** Flatten or steepen APS by different amounts in each meridian
NO	YES	**Request Front Toric Rx Design** Offers dual elliptical stabilization
NO	NO	**Request Toric APS** Document the lens rotation. Perform new OR if cylinder is still present; order front toric design with toric APS

3 **REFRACT:** DETERMINE INITIAL LENS RX

Lens power (front torics) should only be addressed AFTER a desired fit is achieved.[1]

REFRACT: PLACE AN ORDER

To place your initial order, you can:

Call 800-253-3669,
Monday through Friday,
8:00 AM to 7:00 PM EST

Email your order anytime to
svp.consultation@bausch.com

Fax your order anytime to
800-899-5612

Be sure to have Rx, Ks, ADD powers, and HVID (if available) ready to go when you place your order! You can specify the necessary contact lens prescription or have our consultants calculate it for you from the spectacle prescription.

REFERENCE: 1. Carrasquillo KG, Lipson MJ, Ezekial DJ, Johns LK, Barnett M. Scleral lens complications and problem solving. In: Barnett M, Johns LK, eds. *Ophthalmology: Current and Future Developments. (Volume 4). Contemporary Scleral Lenses: Theory and Application.* Bentham Science Publishers; 2017.

RESOURCES

Zenlens® customers have access to an outstanding training and support offering from Bausch + Lomb Specialty Vision Products, including:

- Downloadable educational resources, training videos, and fitting guide
- Receive individualized, expert-level support from our all-FCLSA (Fellow of the Contact Lens Society of America) consultation team
- NCLE-certified area managers for one-on-one training and education
- In-office, peer-to-peer wet lab training supported by scleral lens experts
- Plus, get unlimited lens remakes for 120 days with EZ-Exchange™*

*See bauschsvp.com/policies for details.

TIP: Scan the code for a demo of the Zenlens® fit set

IMPORTANT SAFETY INFORMATION

FOR GAS PERMEABLE AND CUSTOMIZED SOFT CONTACT LENSES

WARNINGS:

Patients should be advised of the following warnings pertaining to contact lens wear:

- Problems with contact lenses and lens care products could result in serious injury to the eye. It is essential that patients follow their eyecare practitioner's directions and all labeling instructions for proper use of lenses and lens care products, including the lens case. Eye problems, including corneal ulcers, can develop rapidly and lead to loss of vision.
- Daily wear lenses are not indicated for overnight wear, and patients should be instructed not to wear lenses while sleeping. Clinical studies have shown that the risk of serious adverse reactions is increased when daily wear lenses are worn overnight.
- Studies have shown that contact lens wearers who are smokers have a higher incidence of adverse reactions than nonsmokers.
- If a patient experiences eye discomfort, excessive tearing, vision changes, or redness of the eye, the patient should be instructed to immediately remove lenses and promptly contact his or her eyecare practitioner.

CONTRAINDICATIONS:

Do not use when any of the following conditions exist:

- Acute or subacute inflammation or infection of the anterior chamber of the eye
- Any eye disease, injury or abnormality, other than keratoconus, PMD, that affects the cornea, conjunctiva or eyelids
- Severe insufficiency of lacrimal secretion (dry eye)
- Corneal hypoesthesia (reduced sensitivity), if not aphakic
- Any systemic disease that may affect the eye or be exaggerated by wearing contact lenses
- Allergic reactions of ocular surfaces or adnexa that may be induced or exaggerated by wearing contact lenses or using contact lens solutions
- Allergy to any ingredient in a solution which is to be used to care for contact lenses
- Any active corneal infection (bacterial, fungal or viral)
- Red or irritated eyes

ADVERSE EFFECTS:

The following problems may occur with the use of contact lenses:

- Eyes stinging, burning, itching, irritation or other eye pain
- Comfort is less than when the lens was first placed on the eye
- Feeling of something in the eye such as a foreign body, scratched area
- Excessive watering (tearing) of the eye
- Unusual eye secretions
- Redness of the eyes
- Reduced sharpness of vision (poor visual acuity)
- Blurred vision, rainbows, or halos around objects
- Sensitivity to light (photophobia)
- Dry eyes

Zenlens
scleral lenses

FIT CUSTOM WITH CONFIDENCE

Call a Bausch consultant at **800-253-3669**, available Monday through Friday, **8:00 AM to 7:00 PM EST**

Send your questions to **svp.consultation@bausch.com**

BAUSCH + LOMB