



**Volk Optical Inc**  
7893 Enterprise Drive  
Mentor, OH 44060 USA  
Tel: 440-942-6161  
Fax: 440-942-2257  
Email: volk@volk.com

EC REP

**EU Representative:**  
Rudolf Riester GmbH  
Bruckstraße 31  
72417 Jungingen, Germany  
Email: info@riester.de  
Phone: +49 74 77 / 92 70-0  
Fax: +49 74 77 / 92 70-70



## Volk Optical Contact Laser & Diagnostic Lenses (Indirect Contact)

### ENGLISH: INSTRUCTIONS FOR USE

#### INTENDED USE

Contact Laser & Diagnostic Lenses are indicated for use as diagnostic contact lenses for eye fundus examinations and use in the therapy of intraocular abnormalities.

#### SPECIFICATIONS

Product	Part Numbers	Magnification	Laser Spot Magnification Factor
SuperQuad® 160	VSQUAD160 VSQUAD160NF	0.50	2.00
Equator Plus®	VEPNF VEPNF+	0.44	2.27
QuadPediatric™	VQPED	0.55	1.82
QuadAspheric®	VQFL VQFLNF VQFLNF+	0.51	1.97
TransEquator®	VTE VTENF VTEANF+	0.70	1.44
PDT	V PDT	0.66	1.50
Area Centralis®	VAC VACNF VACANF+	1.06	0.94
Super Macula® 2.2	V SMA2.2	1.49	0.67
High Resolution Wide Field	VHRWF	0.50	2.00
High Resolution Centralis	VHRC	1.08	0.93

#### INDICATIONS FOR USE

- To be used by a licensed physician in a method consistent with other ophthalmoscopic contact indirect fundus lenses
- Standard Fluid and No Flange (NF) contact lenses require methylcellulose or other similar interface solution be applied to the concave contact surface.
- ANF+ contact lenses require a normal tear solution be applied to the concave contact surface.
- When calculating the spot size at the retina, the laser spot setting should be multiplied by the appropriate *Laser Magnification Factor*. Refer to the Specifications table to find the appropriate *Laser Magnification Factor* for the lens you are using.

#### WARNING:

- DO NOT USE THE LENS WHEN THE CONTACTING SURFACE(S) SHOW(S) ANY SIGNS OF DAMAGE.
- DO NOT ATTEMPT TO USE THE LENS UNLESS AN ADEQUATE TYPE AND AMOUNT OF COUPLING FLUID IS PRESENT BETWEEN THE CORNEA AND THE CONTACTING LENS SURFACE.

#### REPROCESSING

##### WARNING:

- A THOROUGH, MANUAL CLEANING PROCESS IS RECOMMENDED.
- CORROSIVE CLEANING AGENTS (I.E. ACIDS, ALKALINES, ETC) ARE NOT RECOMMENDED. DETERGENT CLEANING AGENTS WITH NEUTRAL PH ARE RECOMMENDED.

##### PREPARATION AT THE POINT OF USE:

- New or used, contaminated lenses must be cleaned.
- Body fluids should not be allowed to dry on the unit prior to cleaning. Remove excess body fluids.
- Universal precautions for handling contaminated materials should be observed.
- Instruments should be cleaned as soon as possible after use to minimize the drying.

##### REPROCESSING LIMITATIONS:

Repeated cleaning, disinfection, and sterilization have minimal effect on Volk Indirect Contact Lenses when processed according to instructions. End of the product's life cycle is normally determined by wear and damage due to use.

##### PREPARATION BEFORE CLEANING:

The following cleaning, disinfection, and sterilization instructions are aided by not allowing contamination to dry on the lens surface. When possible place the lenses in water or cover them with a damp cloth.

#### CLEANING, DISINFECTION, STERILIZATION

##### CLEANING:

Select the desired method of cleaning:

<b>Method A:</b>	Clean with a mild detergent and a clean soft cotton cloth or swab. Do not use detergent with any type of Emollients.
<b>Method B:</b>	Clean the glass element with Volk Precision Optical Lens Cleaner (POLC) or a Volk LensPen®. Clean lens surface in a clockwise direction to help prevent loosening of the insert in the ring. <b>CAUTION:</b> Do not use Volk's POLC or the Volk LensPen® on surfaces that contact the eye.
<b>Method C:</b>	<ol style="list-style-type: none"> <li>Prepare fresh enzymatic cleaner (e.g. Enzol) solution – 2 ounces per gallon using warm (~30 - 43°C) tap water.</li> <li>Soak each device in solution for 20 minutes.</li> <li>After soaking, brush knurled surface on device ring with a soft-bristle brush and wipe lens portion with a soft cloth until all traces of cleaner and soil are removed. Pay special attention to all crevices and other hard-to-reach areas. Note: Do not brush lens portion to avoid scratching; use soft cloth.</li> <li>Thoroughly rinse devices in a room temperature tap water bath (not under running water) until all visible cleaner has been removed.</li> <li>Transfer the devices to a freshly prepared enzymatic solution (per step 1 above) and sonicate for 20 minutes.</li> <li>After sonication, thoroughly rinse devices in a room temperature tap water bath (not under running water) until all visible cleaner has been removed.</li> <li>Inspect each device for remaining debris. If any is observed, repeat the cleaning procedure with freshly prepared cleaning solutions.</li> </ol>

##### CAUTION:

TO AVOID LENS SURFACE DAMAGE, NEVER CLEAN THE CONTACT ELEMENT WITH ALCOHOL, PEROXIDE, OR ACETONE.

##### DISINFECTION:

- Follow the **Method A** cleaning instructions.
- Select **one** of the solution types from the table below:

DISINFECTANT	CONCENTRATION	MIN SOAK TIME	MAX SOAK TIME
Glutaraldehyde	2% aqueous solution	25 minutes	N/A
Sodium hypochlorite (5.25% NaClO; household bleach)	9 parts water, 1 part bleach	10 minutes	25 minutes
Cidex OPA	See Manufacturer's Instructions	12 minutes	N/A

- Position the lens on its side, and then immerse the device completely in the selected disinfectant solution for the minimum soak time listed above (minimum of 20°C). Ensure to fill all lumens, hard-to-reach areas, and eliminate air pockets.
- Rinse thoroughly in a room temperature water bath (minimum of 20°C). Rinse by immersing device completely for a minimum of one minute. Manually flush all lumens or other hard-to-reach areas with water. Agitate device under water, bring above water level, then re-immerses. Repeat rinse procedure two additional times using fresh water.
- Dry with a soft, lint-free cotton cloth.

##### CAUTION:

EXTENDED EXPOSURE AND/OR EXPOSURE TO HIGHER CONCENTRATIONS OF SODIUM HYPOCHLORITE WILL RESULT IN ACCELERATED DEGRADATION OF THE PRODUCT.

##### STERILIZATION:

- Follow the **Method C** cleaning instructions.
- Ethylene oxide sterilization is the preferred method of sterilization. Sterilize using a 2 hour cycle with a recommended temperature of 130°F (not exceeding 150°F) and a concentration of 600 mg/L.
- Do not sterilize lenses within standard (black leatherette) lens cases as they are not meant for use in sterilization systems.

##### CAUTION:

TO AVOID PRODUCT DAMAGE, NEVER AUTOCLAVE OR BOIL LENSES OR ADAPTERS.

#### STORAGE:

Sterile instruments should be stored in an area that provides protection from loss of sterility.

**Toll Free:** 800-345-8655 (USA) **Telephone:** 440-942-6161 **Fax:** 440-942-2257 **Email:** volk@volk.com