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Volk Optical Chalam Direct Image SSV® Vitrectomy ACS® Lenses

ENGLISH: INSTRUCTIONS FOR USE

INTENDED USE

Volk Chalam Direct Image SSV® Vitrectomy ACS® Lenses are indicated for use as diagnostic contact lenses for eye fundus examinations and use in the therapy of intraocular abnormalities.

SPECIFICATIONS

Product	Product Code	Magnification	Field of View	Available Contact Designs	Suture Ring
Flat SSV® ACS®	VFLATSSVACS	0.92	30°	SSV®	Not Required
High Mag SSV® ACS®	VFHMSVACS	1.50	15°	SSV®	Not Required
Mid Field SSV® ACS®	VMFSSVACS	0.50	40°	SSV®	Not Required
15° Prism SSV® ACS®	VPRISMSSVACS	0.90	30° offset	SSV®	Not Required
30° Prism SSV® ACS®	V30PRISMSSVACS	0.90	30° offset	SSV®	Not Required
45° Prism SSV® ACS®	V45PRISMSSVACS	0.90	30° offset	SSV®	Not Required
Chalam AFX SSV® ACS®	VAFXSSVACS	0.82 (air-filled)	30°	SSV®	Not Required

INDICATIONS FOR USE

- To be used by a licensed physician in a method consistent with other direct-image vitreo-retinal surgical lenses.
- Volk Chalam Direct Image SSV® Vitrectomy ACS® Lenses are indicated for steam sterilization.
- The self-stabilizing (SSV®) contact style provides stable lens positioning on the eye without the need for a stabilizing ring or handle while also providing lens stability during scleral indentation.
- It is suggested that an appropriate diffusion or bullet-type fiberoptic light pipe and a high intensity light source be used to provide illumination of the retina.
- Sterilized lenses should be allowed to stabilize to the ambient air temperature of the operating room; this reduces unintended fogging during surgery.
- The contact design requires a viscous, sterile tear-like fluid (methylcellulose or similar interface solution) applied to the concave contact surface (patient side). Apply a drop of sterile viscous, tear-like coupling fluid to the concave contact surface at the point of use.
- Inspect the contacting surface(s) prior to use to ensure they are free from damage including chips or scratches.

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.
- CARE SHOULD BE TAKEN TO AVOID EXCESSIVE PRESSURE ON THE CORNEA AS IT MAY AFFECT AQUEOUS DYNAMICS.
- DO NOT ATTEMPT TO USE THE LENS IF, FOR ANY REASON, THE RETINAL IMAGE IS UNCLEAR OR UNFOCUSED.

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 of contaminants to the surface.
- Devices should always be handled in an appropriate method to ensure contamination is not introduced to a recently cleaned, disinfected, and/or sterilized device.

REPROCESSING LIMITATIONS:

Repeated cleaning, disinfection, and sterilization have minimal effect on Volk Chalam Direct Image SSV® Vitrectomy ACS® 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.



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CLEANING, DISINFECTION, STERILIZATION

CLEANING:

Select the desired method of cleaning:

Method A:	Clean with a mild detergent and a clean soft cotton cloth or swab. Clean lens surface in a clockwise direction to help prevent loosening of the retaining ring within the housing. Do not use detergents containing Emollients (moisturizers).
Method B:	Volk Precision Optical Lens Cleaner (POLC) is not recommended for this device.
Method C:	<ol style="list-style-type: none"> 1. Prepare fresh enzymatic cleaner (e.g. Enzol) solution – 2 ounces per gallon using warm (~30 - 43°C) tap water. 2. Soak each device in solution for 20 minutes. 3. 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. Clean lens surface in a clockwise direction. Pay special attention to all crevices and other hard-to-reach areas. NOTE: Do not brush lens portion to avoid scratching; use soft cloth. 4. Thoroughly rinse devices in a room temperature tap water bath (not under running water) until all visible cleaner has been removed. 5. Transfer the device(s) to a freshly prepared enzymatic solution (per step 1 above) and sonicate for 20 minutes. 6. After sonication, thoroughly rinse device(s) in a room temperature tap water bath (not under running water) until all visible cleaner has been removed. 7. Inspect each device for remaining debris. If any is observed, repeat the cleaning procedure with freshly prepared cleaning solutions.

CAUTION:

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

DISINFECTION:

1. Reusable surgical devices require full sterilization. Disinfection is only acceptable as an optional step, next to full sterilization.
2. Follow the **Method A** or **Method C** cleaning instructions.
3. 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 (5000 ppm NaClO)	9-parts water:1-part household bleach (5.25% NaClO)	10 minutes	25 minutes
Cidex OPA	See Manufacturer's Instructions	12 minutes	N/A

4. 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.
5. 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.
6. Dry with a soft, lint-free cotton cloth.

CAUTION:

1. ENSURE THE DEVICE IS COMPLETELY SUBMERGED IN THE DISINFECTANT SOLUTION FOR THE ENTIRETY OF THE RECOMMENDED OR DESIRED SOAK TIME. DO NOT ALLOW THE DEVICE TO BECOME UNSUBMERGED FROM THE DISINFECTANT SOLUTION.

STERILIZATION:

1. Follow the **Method C** cleaning instructions.
2. Steam sterilization is the preferred method of sterilization. Steam sterilize using a pre-vacuum cycle for 4 minutes at a minimum temperature of 132°C (270°F). Volk recommends using distilled water for steam sterilization. The use of distilled water greatly increases the lifetime of your Volk Chalam Direct Image SSV® Vitrectomy ACS® Lenses. Where the use of distilled water is not practical, the use of a reverse osmosis (RO) filter is recommended just prior to the autoclave water intake.
- or -
3. Ethylene oxide sterilize at an exposure time of 120 minutes, sterilant concentration of 700 - 750 mg/L, a humidity of 50 +/- 20%, and a temperature of 52 - 60°C.

INSPECTION & MAINTENANCE

1. Carefully check to ensure that all visible debris has been removed. If any contamination is visible, repeat the cleaning procedure.
2. Visually check for damage and/or wear.
3. If damage or wear is apparent that may interfere with the performance of the lens, contact Volk Optical or your distributor for return.
4. No maintenance activities are necessary.

PACKAGING & STORAGE

1. The user facility is responsible for in-house procedures for inspection and packaging lenses in a method that will allow adequate sterilization.
2. If applicable, use standard double wrap method.
3. Sterile instruments should be stored in an area that provides protection from loss of sterility.

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