

### THIS GUIDE APPLIES TO THE FOLLOWING DEVICES ONLY

CLASSIC INDIRECT BIO LENSES	
Macula Plus 5.5	VMP5.5
14D Large Clear	V14LC
15D Large Clear	V15LC
20D Large Clear	V20LC
Pan Retinal 2.2 Clear	VPRC
25D Large Clear	V25LC
28D Large Clear	V28LC
30D Large Clear	V30LC
30D Small Clear	V30SC
40D Large Clear	V40LC
DIGITAL SERIES INDIRECT BIO LENSES	
Digital Clear Mag	VDGTLCM
Digital Clear Field	VDGTLCF
INDIRECT BIO LENSES (AUTOCLAVABLE)	
20D Clear ACS PermaView	V20LCACSPV
28D Clear ACS PermaView	V28LCACSPV

CLASSIC SLIT LAMP LENSES	
60D Clear	V60C
78D Clear	V78C
90D Clear	V90C
SUPER SERIES SLIT LAMP LENSES	
Super 66	VS66
SuperField NC	VSFNC
Super VitreoFundus	VSVF
SuperPupil XL	VSPXL
DIGITAL SERIES SLIT LAMP LENSES	
Digital High Mag	VDGTLHM
Digital 1.0X Imaging	VDGTL1
Digital Wide Field	VDGTLWF

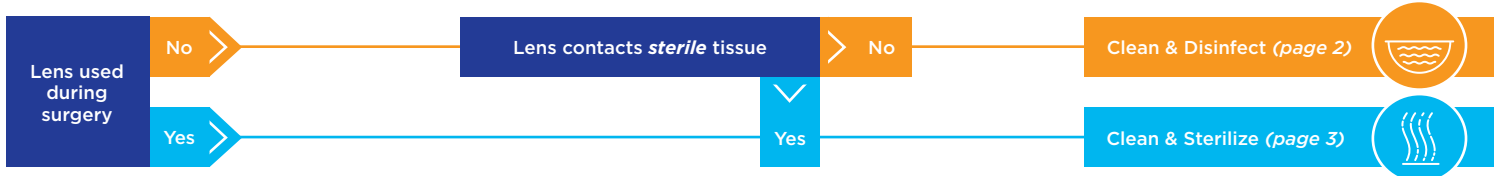
**⚠ DO NOT USE a microfiber cloth, as over time these tend to collect dirt and dust which can damage the anti reflective coating on the lens.**

Colors include Blue, Gold, Green, Purple, Red, Silver, and Pink for all lens families. Black lenses are NOT considered colored lenses.

The information contained within this document applies only to Volk's Non-Contact lenses (see above).

Information regarding the care of other devices can be found on Volk's website: [www.volk.com](http://www.volk.com)

### CHOOSING BETWEEN DISINFECTION AND STERILIZATION



### STORAGE

Ensure devices have been cleaned, disinfected/sterilized, and dried before storage. Store devices in a clean, dry, room-temperature environment.

### IMPORTANT INFORMATION

#### Limitations on Reprocessing

When the instructions are followed properly, the cleaning, disinfection, and sterilization techniques have a minimal effect on the functionality of Volk devices.

**⚠ Never use a device that shows any sign(s) of damage.**

#### Preparation for Decontamination

Ensure the device surface does not contain dried fluids or tissues. If fluids or tissues are present, they **must** be removed by the cleaning steps below prior to further reprocessing.

#### Point-of-Use Processing

Devices should be cleaned as per the instructions of this document immediately after use to minimize the drying of any fluids or tissues on the device surface.

If immediate reprocessing is not possible, the device(s) should be covered with a moist cloth or soaked in distilled or deionized water until cleaning.

**⚠ Failure to follow the point-of-use processing steps could adversely affect further decontamination steps.**

### DISCLAIMERS

- + All Volk products that contact a patient must be thoroughly cleaned, and then disinfected OR sterilized.
- + Non-contact products are recommended to be cleaned thoroughly at a frequency determined by the discretion of the practitioner; however, periodic disinfection is recommended.
- + Only follow the reprocessing procedures listed in Volk's Instructions for Use, and as stipulated by your hospital/facility.
- + Always ensure proper regulatory compliance from your competent authority and facility when choosing a reprocessing technique (FDA, DGHM, etc.).
- + The instructions provided within have been validated by Volk Optical as being CAPABLE of preparing a medical device for re-use. It remains the responsibility of the processor to ensure that the reprocessing as actually performed using equipment, materials and personnel in the reprocessing facility achieve the desired result. This normally requires validation and routine monitoring of the process.

### CLEANING

Cleaning should be performed regularly to remove bodily fluids, dust, and soils from the surface of the product. Clean the glass element with Volk Precision Optical Lens Cleaner (POLC) or a Volk LensPen®. For more thorough cleaning instructions, see cleaning instruction sections for disinfection and sterilization.

### DISINFECTION

All lenses that contact the patient's eye **must** be disinfected using a High-Level Disinfectant.



#### CLEANING STEPS

##### 1. Clean

Clean with a mild, pH neutral detergent and a moist, clean, cotton cloth or swab until all visible soil is removed. Use a clockwise motion to avoid loosening the retaining ring. Flush all hard to reach areas with a detergent solution.

**⚠ Do not use detergents that contain any type of emollients.**

**NOTE:** Visually inspect all devices after cleaning to ensure all cleaner and foreign matter is removed. Repeat the above, appropriate cleaning procedure using freshly prepared solutions if needed.

##### 2. Rinse

Thoroughly rinse the lens until all traces of cleaner have been removed. Use room temperature, sterile, distilled or deionized water.

##### Rinsing should be performed by:

- + Gently shaking the device under water.
- + Bringing the device above the water level.
- + Re-immersing the device under water.
- + This should be completed at least 3 times with fresh rinse water to ensure proper removal of the cleaning solution.

**NOTE:** Inadequate rinsing could result in trace amounts of cleaning solutions being left on the device. Extended exposure to mineral deposits found in tap water can cause lens damage.

##### 3. Dry

Dry the lens with an ultra-soft, low-lint, cotton cloth such as a cloth diaper.

**⚠ Wiping the lens with a microfiber cloth will cause lens damage. Be sure to use only a soft, lint-free cotton cloth.**

**NOTE:** Always dry the device after cleaning. Failure to do so could adversely affect further reprocessing steps.

#### DISINFECTANT CHOICES AND STEPS

BRAND
Bode Mikorbac Tissues
CaviWipes
Tristel Duo OPH
Perasafe

Follow the manufacturer's instructions for the above disinfectant products.

#### HIGH-LEVEL DISINFECTANT CHOICES AND STEPS

PRODUCT TYPE
Bleach Solutions (Sodium Hypochlorite)
Cidex OPA
Glutaraldehyde

##### Prepare Immersion Solution

##### Bleach Solutions (Sodium Hypochlorite)

+ For Bleach, prepare the following solution (NaClO, Sodium Hypochlorite, Household Bleach):

SOLUTION TYPE	EXAMPLE DILUTION	SOAK TIME
0.525% (5250ppm) Sodium Hypochlorite Solution (NaClO) (household bleach)	1 Part 5.25% NaClO: 9 Parts Water Ambient/ Room Temp: 62° - 72°F (16.67° - 22.22°C)	25 Minutes

##### Cidex OPA & Glutaraldehyde

+ Prepare the solution following the manufacturer's instructions.

##### Immersion

Position the lens on its side, and then immerse the entire lens in the selected solution for the listed soak time.

##### Rinse and Dry

Remove the lens from the solution and follow steps 2 and 3 from the cleaning steps above.

#### IMPORTANT INFORMATION

**⚠ 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.**

**⚠ Exposure to disinfectant solutions beyond the recommended soak time, and/or exposure to higher concentrations of disinfectant solution, will result in accelerated degradation of most Volk product.**

**⚠ Colored rings may discolor when exposed to Sodium Hypochlorite or Glutaraldehyde. To avoid further degradation please follow only the disinfection procedures indicated for these products in this document. This color change is purely cosmetic and will not affect the function of the lens.**

### STERILIZATION

If the device is used during surgery or contacts an ulcerated cornea, sterilization is required.



#### CLEANING STEPS

##### 1. Prepare Solution

Prepare a low-foaming, neutral pH, enzymatic cleaner solution (e.g. Enzol) – 2 ounces per gallon using warm (-37-43°C), potable water.

##### 2. Soak

Soak each device in solution for 20 minutes.

##### 3. Brush

After soaking, brush knurled surface of housing with a soft-bristle brush and wipe lens portion with a soft, cotton cloth until all traces of cleaner and soil are removed. Pay special attention to all crevices and other hard-to-reach areas.

Do not brush lens portion to avoid scratching; use a soft, cotton cloth.

**NOTE:** Visually inspect all devices after cleaning to ensure all cleaner and foreign matter is removed. Repeat the above, appropriate cleaning procedure using freshly prepared solutions if needed.

##### 4. Rinse

Thoroughly rinse devices in a room temperature, potable water bath (not under running water) until all visible cleaner has been removed.

##### Rinsing should be performed by:

- + Gently shaking the device under water.
- + Bringing the device above the water level.
- + Re-immersing the device under water.
- + This should be completed at least 3 times with fresh rinse water to ensure proper removal of the cleaning solution.

##### 5. Sonicate

Transfer the devices to a freshly prepared enzymatic solution from step 1 and sonicate for 20 minutes.

##### 6. Rinse

After sonication, thoroughly rinse devices in a room temperature, sterile, distilled or deionized water bath (not under running water) until all visible cleaner has been removed.

**NOTE:** Inadequate rinsing could result in trace amounts of cleaning solutions being left on the device. Extended exposure to mineral deposits found in tap water can cause lens damage.

##### 7. Dry

Dry the lens with an ultra-soft, low-lint, cotton cloth such as a cloth diaper.

Wiping the lens with a microfiber cloth will cause lens damage. Be sure to use only a soft, lint-free cotton cloth.

**NOTE:** Always dry the device after cleaning. Failure to do so could adversely affect further reprocessing steps.

#### STERILIZATION CHOICES AND STEPS

PRODUCT TYPE	CLASSIC & DIGITAL SERIES BIO LENSES	CLASSIC BIO LENSES (ACS)	CLASSIC SLIT LAMP LENSES	SUPER SERIES & DIGITAL SERIES SLIT LAMP LENSES
ETO	+	+	+	+
Steam		+		
Sterrad®	+	+	+	+
V-Pro®	+	+	+	+
Sterizone VP4	+	+	+	+

**Ethylene Oxide:** Follow hospital procedures with aeration up to, but not exceeding 150°F / 66°C.

**Steam Sterilization:** **US** – Pre-vacuum, wrapped, 132°C minimum, 4 minutes (lenses), dry time 20 min.

**EU / UK** – Pre-vacuum, wrapped, 134°C minimum, 3 minutes (lenses), dry time 20 min.

**Sterrad®:** Use in the 100NX Express or use in 100S Short Cycle (available outside the US only).

**V-Pro®:** Applicable sterilization systems: V-Pro maX, V-Pro maX 2, V-Pro 60, V-Pro s2. Use the Non-Lumen or Fast cycle.

#### NOTES

- + The use of a Volk Sterilization Case (VSCA or VSCB) or Tray is recommended to avoid product loss or damage.
- + The ring color will fade to a natural aluminum color after multiple reprocessing cycles in Sterrad, V-Pro, and Sterizone. This color change is purely cosmetic and will not affect the function of the lens.
- + The Volk black leatherette or clamshell lens cases should not be sterilized.

### THIS GUIDE APPLIES TO THE FOLLOWING DEVICES ONLY

#### MIRRORED LENSES

Three-Mirror Laser Lens - NF	V3MIR
Three-Mirror Laser Lens ANF+	V3MIRANF+
Three-Mirror (Uncoated) - NF	VU3MIR
Three-Mirror (Uncoated) ANF+	VU3MIRANF+
Mini Four Mirror Gonio Lens ANF+	V4MANF+
SLT Gonio Lens	VSLT
Rapid SLT	VMSLT

#### G-SERIES - GLASS GONIO LENSES

One-Mirror Glass Trabeculum Lens Flange AR Coating	VG1
One-Mirror Glass Trabeculum Lens No Flange No Fluid AR Coating	VG1NF
Two-Mirror Glass Trabeculum Lens Flange AR Coating	VG2
Two-Mirror Trabeculum Lens No Flange No Fluid AR Coating	VG2NF
Three-Mirror Glass Gonio Fundus Lens Flange AR Coating	VG3
Three-Mirror Glass Gonio Fundus Lens No Flange No Fluid AR Coating	VG3NF
Three-Mirror Glass Gonio Fundus Lens Mini No Flange No Fluid AR Coating	VG3MININF

#### G-SERIES - GLASS GONIO LENSES

Four-Mirror Glass Gonio Lens Flange Fluid AR coating	VG4
Four-Mirror Glass Hand Held Gonio Lens (Large Ring) No Flange No Fluid	VG4LNF
Four-Mirror Glass Hand Held Gonio (Small Ring) No Flange No Fluid	VG4SNF
Four-Mirror Glass 2 in 1 Handle Gonio No Flange No Fluid 3.5"	VG4HAN2
Four-Mirror Glass High Mag Gonio Flange	VG4HM
Four-Mirror Glass High Mag Gonio (Large Ring) No Flange No Fluid	VG4HMLNF
Four-Mirror Glass High Mag Gonio (Small Ring) No Flange No Fluid	VG4HMSNF
Four-Mirror Glass High Mag 2 in 1 Handle Gonio No Flange No Fluid	VG4HMHAN2
Six-Mirror Glass Hand Held Gonio (Large Ring) No Flange No Fluid	VG6LNF
Six-Mirror Glass 2 in 1 handle Gonio No Flange No Fluid	VG6HAN2

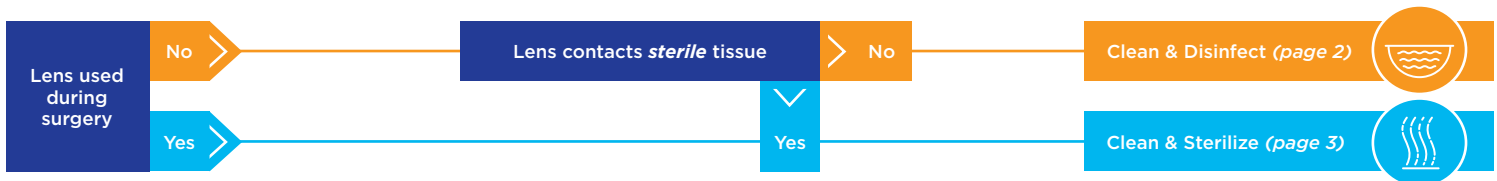
#### SURGICAL GONIO LENSES

Surgical Gonio Lens	VSGACS
Volk Transcend TVG	VTSTVG
Volk Vold VVG	VTSVVG

**⚠ DO NOT USE a microfiber cloth, as over time these tend to collect dirt and dust which can damage the anti reflective coating on the lens.**

The information contained within this document applies only to Volk's Gonioscopy lenses (see above). Information regarding the care of other devices can be found on Volk's website: [www.volk.com](http://www.volk.com)

### CHOOSING BETWEEN DISINFECTION AND STERILIZATION



### STORAGE

Ensure devices have been cleaned, disinfected/sterilized, and dried before storage. Store devices in a clean, dry, room-temperature environment.

### IMPORTANT INFORMATION

#### Limitations on Reprocessing

When the instructions are followed properly, the cleaning, disinfection, and sterilization techniques have a minimal effect on the functionality of Volk devices.

**⚠ Never use a device that shows any sign(s) of damage.**

#### Preparation for Decontamination

Ensure the device surface does not contain dried fluids or tissues. If fluids or tissues are present, they **must** be removed by the cleaning steps below prior to further reprocessing.

#### Point-of-Use Processing

Devices should be cleaned as per the instructions of this document immediately after use to minimize the drying of any fluids or tissues on the device surface.

If immediate reprocessing is not possible, the device(s) should be covered with a moist cloth or soaked in distilled or deionized water until cleaning.

**⚠ Failure to follow the point-of-use processing steps could adversely affect further decontamination steps.**

### DISCLAIMERS

- + All Volk products that contact a patient must be thoroughly cleaned, and then disinfected OR sterilized.
- + Only follow the reprocessing procedures listed in Volk's Instructions for Use, and as stipulated by your hospital/facility.
- + Always ensure proper regulatory compliance from your competent authority and facility when choosing a reprocessing technique (FDA, DGHM, etc.).
- + The instructions provided within have been validated by Volk Optical as being CAPABLE of preparing a medical device for re-use. It remains the responsibility of the processor to ensure that the reprocessing as actually performed using equipment, materials and personnel in the reprocessing facility achieve the desired result. This normally requires validation and routine monitoring of the process.

### DISINFECTION

All lenses that contact the patient's eye **must** be disinfected using a High-Level Disinfectant.

**⚠** To avoid surface damage to contact lenses, **NEVER** clean the contact elements with alcohol, peroxide or acetone.



#### CLEANING STEPS

##### 1. Clean

Clean with a mild, pH neutral detergent and a moist, clean, cotton cloth or swab until all visible soil is removed. Use a clockwise motion to avoid loosening the retaining ring. Flush all hard to reach areas with a detergent solution.

**⚠** Do not use detergents that contain any type of emollients.

**NOTE:** Visually inspect all devices after cleaning to ensure all cleaner and foreign matter is removed. Repeat the above, appropriate cleaning procedure using freshly prepared solutions if needed.

##### 2. Rinse

Thoroughly rinse the lens until all traces of cleaner have been removed. Use room temperature, sterile, distilled or deionized water.

##### Rinsing should be performed by:

- + Gently shaking the device under water.
- + Bringing the device above the water level
- + Re-immersing the device under water.
- + This should be completed at least 3 times with fresh rinse water to ensure proper removal of the cleaning solution.

**NOTE:** Inadequate rinsing could result in trace amounts of cleaning solutions being left on the device. Extended exposure to mineral deposits found in tap water can cause lens damage.

##### 3. Dry

Dry the lens with an ultra-soft, low-lint, cotton cloth such as a cloth diaper.

**⚠** Wiping the lens with a microfiber cloth will cause lens damage. Be sure to use only a soft, lint-free cotton cloth.

**NOTE:** Always dry the device after cleaning. Failure to do so could adversely affect further reprocessing steps.

#### DISINFECTANT CHOICES AND STEPS

BRAND	MIRRORED LENSES	G-SERIES GLASS GONIO LENSES
Alkacide/ Alkazyme	+	
Bode Mikorbac Tissues	+	+
CaviWipes	+	+
Tristel Duo OPH	+	+

Follow the manufacturer's instructions for the above disinfectant products.

#### HIGH-LEVEL DISINFECTANT CHOICES AND STEPS

PRODUCT TYPE	MIRRORED LENSES	G-SERIES GLASS GONIO LENSES
Bleach Solutions (Sodium Hypochlorite)	+	+
Cidex OPA	+	+
Glutaraldehyde	+	+
Revital-Ox™ Resert® XL HLD	+	+

##### Prepare Immersion Solution

##### Bleach Solutions (Sodium Hypochlorite)

+ For Bleach, prepare the following solution (NaClO, Sodium Hypochlorite, Household Bleach):

SOLUTION TYPE	EXAMPLE DILUTION	SOAK TIME
0.525% (5250ppm) Sodium Hypochlorite Solution (NaClO) (household bleach)	1 Part 5.25% NaClO: 9 Parts Water Ambient/ Room Temp: 62° - 72°F (16.67° - 22.22°C)	25 Minutes

##### Cidex OPA, Glutaraldehyde, or Revital-Ox™ Resert® XL HLD

+ Prepare the solution following the manufacturer's instructions.

##### Immersion

Position the lens on its side, and then immerse the entire lens in the selected solution for the listed soak time.

##### Rinse and Dry

Remove the lens from the solution and follow steps 2 and 3 from the cleaning steps above.

#### IMPORTANT INFORMATION

**⚠** 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.

**⚠** Exposure to disinfectant solutions beyond the recommended soak time, and/or exposure to higher concentrations of disinfectant solution, will result in accelerated degradation of most Volk product.

**⚠** Rings may discolor when exposed to Sodium Hypochlorite or Glutaraldehyde. To avoid further degradation please follow only the disinfection procedures indicated for these products in this document. This color change is purely cosmetic and will not affect the function of the lens.

### STERILIZATION

If the device is used during surgery or contacts an ulcerated cornea, sterilization is required.

**⚠️ To avoid surface damage to contact lenses, NEVER clean the contact elements with alcohol, peroxide or acetone.**



#### CLEANING STEPS

##### 1. Prepare Solution

Prepare a low-foaming, neutral pH, enzymatic cleaner solution (e.g. Enzol) - 2 ounces per gallon using warm (-37-43°C), potable water.

##### 2. Soak

Soak each device in solution for 20 minutes.

##### 3. Brush

After soaking, brush knurled surface of housing with a soft-bristle brush and wipe lens portion with a soft, cotton cloth until all traces of cleaner and soil are removed. Pay special attention to all crevices and other hard-to-reach areas.

**⚠️ Do not brush lens portion to avoid scratching; use a soft, cotton cloth.**

**NOTE:** Visually inspect all devices after cleaning to ensure all cleaner and foreign matter is removed. Repeat the above, appropriate cleaning procedure using freshly prepared solutions if needed.

##### 4. Rinse

Thoroughly rinse devices in a room temperature, potable water bath (not under running water) until all visible cleaner has been removed.

##### Rinsing should be performed by:

- + Gently shaking the device under water.
- + Bringing the device above the water level.
- + Re-immersing the device under water.
- + This should be completed at least 3 times with fresh rinse water to ensure proper removal of the cleaning solution.

##### 5. Sonicate

Transfer the devices to a freshly prepared enzymatic solution from step 1 and sonicate for 20 minutes.

##### 6. Rinse

After sonication, thoroughly rinse devices in a room temperature, sterile, distilled or deionized water bath (not under running water) until all visible cleaner has been removed.

**NOTE:** Inadequate rinsing could result in trace amounts of cleaning solutions being left on the device. Extended exposure to mineral deposits found in tap water can cause lens damage.

##### 7. Dry

Dry the lens with an ultra-soft, low-lint, cotton cloth such as a cloth diaper.

**⚠️ Wiping the lens with a microfiber cloth will cause lens damage. Be sure to use only a soft, lint-free cotton cloth.**

**NOTE:** Always dry the device after cleaning. Failure to do so could adversely affect further reprocessing steps.

#### STERILIZATION CHOICES AND STEPS

PRODUCT TYPE	MIRRORED LENSES	G-SERIES GLASS GONIO LENSES	SURGICAL GONIO LENS (VSGACS)	VOLK TRANSCEND TVG (VTSTVG)	VOLK VOLD VVG (VTSVVG)
ETO	+		+		
Steam			+	+	+
V-Pro®	+	+			

**Ethylene Oxide:** Follow hospital procedures with aeration up to, but not exceeding 130°F / 55°C for contact lenses.

**Steam Sterilization:** **US** - Pre-vacuum, wrapped, 132°C minimum, 4 minutes (lenses), dry time 20 min.

**EU / UK** - Pre-vacuum, wrapped, 134°C minimum, 3 minutes (lenses), dry time 20 min.

**V-Pro®:** Applicable sterilization systems: V-Pro maX, V-Pro maX 2, V-Pro 60, V-Pro s2. Use the Non-Lumen or Fast cycle.

#### NOTES

- + The use of a Volk Sterilization Case (VSCA or VSCB) or Tray is recommended to avoid product loss or damage.
- + The Volk black leatherette or clamshell lens cases should not be sterilized.

### THIS GUIDE APPLIES TO THE FOLLOWING DEVICES ONLY

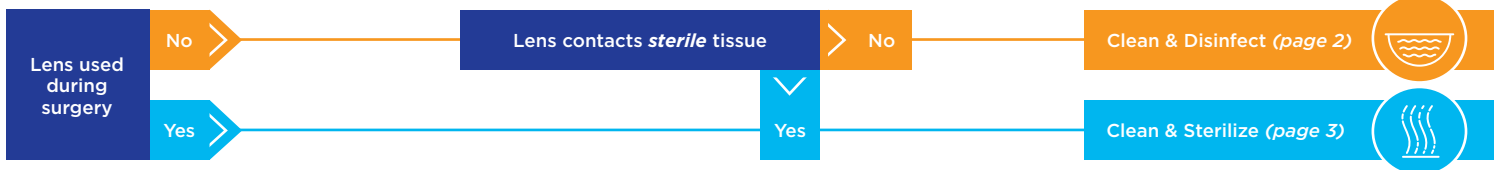
INDIRECT CONTACT LASER AND DIAGNOSTIC LENSES	
SuperMacula 2.2	VSMAC2.2
HR Centralis	VHRC
Area Centralis	VAC
Area Centralis ANF+	VACANF+
Area Centralis NF	VACNF
TransEquator	VTE
TransEquator ANF+	VTEANF+
TransEquator NF	VTENF
QuadAspheric	VQFL
QuadAspheric ANF+	VQFLANF+
QuadAspheric NF	VQFLNF
SuperQuad 160	VSQUAD160
SuperQuad 160 NF	VSQUAD160NF
High Resolution Wide Field	VHRWF
PDT Lens	VPDT
EquatorPlus ANF+	VEPANF+
EquatorPlus NF	VEPNF
QuadPediatric	VQPED

DIRECT CONTACT LASER AND DIAGNOSTIC LENSES	
Centralis Direct	VCD
Centralis Direct ANF+	VCDANF+
Fundus	VFUNDUS
Fundus 20MM	VFUNDUS20
SPECIALTY TREATMENT LENSES	
Blumenthal Iridotomy	VBIRID
Iridectomy	VIRID
MagPlus Iridectomy	VMPIRID
Capsulotomy	VCAPS
Blumenthal Suturelysis	VBSL
Idrees MidVitreous Lens	VIMV
Singh MidVitreous Lens	VSMV
RESEARCH LENSES	
2mm Fundus Lens	V2MFUNDUS
2mm Gonio Lens	V2MGONIO

**DO NOT USE** a microfiber cloth, as over time these tend to collect dirt and dust which can damage the anti reflective coating on the lens.

The information contained within this document applies only to Volk's Contact Laser and Diagnostic lenses (see above). Information regarding the care of other devices can be found on Volk's website: [www.volk.com](http://www.volk.com)

### CHOOSING BETWEEN DISINFECTION AND STERILIZATION



### STORAGE

Ensure devices have been cleaned, disinfected/sterilized, and dried before storage. Store devices in a clean, dry, room-temperature environment.

### IMPORTANT INFORMATION

#### Limitations on Reprocessing

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**Never use a device that shows any sign(s) of damage.**

#### Preparation for Decontamination

Ensure the device surface does not contain dried fluids or tissues. If fluids or tissues are present, they **must** be removed by the cleaning steps below prior to further reprocessing.

#### Point-of-Use Processing

Devices should be cleaned as per the instructions of this document immediately after use to minimize the drying of any fluids or tissues on the device surface.

If immediate reprocessing is not possible, the device(s) should be covered with a moist cloth or soaked in distilled or deionized water until cleaning.

**Failure to follow the point-of-use processing steps could adversely affect further decontamination steps.**

### DISCLAIMERS

- + All Volk products that contact a patient must be thoroughly cleaned, and then disinfected OR sterilized.
- + Only follow the reprocessing procedures listed in Volk's Instructions for Use, and as stipulated by your hospital/facility.
- + Always ensure proper regulatory compliance from your competent authority and facility when choosing a reprocessing technique (FDA, DGHM, etc.).
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### DISINFECTION

All lenses that contact the patient's eye **must** be disinfected using a High-Level Disinfectant.

**⚠️** To avoid surface damage to contact lenses, **NEVER** clean the contact elements with alcohol, peroxide or acetone.



### CLEANING STEPS

#### 1. Clean

Clean with a mild, pH neutral detergent and a moist, clean, cotton cloth or swab until all visible soil is removed. Use a clockwise motion to avoid loosening the retaining ring. Flush all hard to reach areas with a detergent solution.

**⚠️** Do not use detergents that contain any type of emollients.

**NOTE:** Visually inspect all devices after cleaning to ensure all cleaner and foreign matter is removed. Repeat the above, appropriate cleaning procedure using freshly prepared solutions if needed.

#### 2. Rinse

Thoroughly rinse the lens until all traces of cleaner have been removed. Use room temperature, sterile, distilled or deionized water.

**Rinsing should be performed by:**

- + Gently shaking the device under water.
- + Bringing the device above the water level.
- + Re-immersing the device under water.
- + This should be completed at least 3 times with fresh rinse water to ensure proper removal of the cleaning solution.

**NOTE:** Inadequate rinsing could result in trace amounts of cleaning solutions being left on the device. Extended exposure to mineral deposits found in tap water can cause lens damage.

#### 3. Dry

Dry the lens with an ultra-soft, low-lint, cotton cloth such as a cloth diaper.

**⚠️** Wiping the lens with a microfiber cloth will cause lens damage. Be sure to use only a soft, lint-free cotton cloth.

**NOTE:** Always dry the device after cleaning. Failure to do so could adversely affect further reprocessing steps.

### DISINFECTANT CHOICES AND STEPS

BRAND	INDIRECT CONTACT LENSES	DIRECT CONTACT LENSES	SPECIALTY TREATMENT LENSES	RESEARCH LENSES
Bode Mikorbac Tissues	+	+	+	+
CaviWipes	+	+	+	+
Tristel Duo OPH	+	+	+	

Follow the manufacturer's instructions for the above disinfectant products.

### HIGH-LEVEL DISINFECTANT CHOICES AND STEPS

PRODUCT TYPE	INDIRECT CONTACT LENSES	DIRECT CONTACT LENSES	SPECIALTY TREATMENT LENSES	RESEARCH LENSES
Bleach Solutions (Sodium Hypochlorite)	+	+	+	
Cidex OPA	+	+	+	+
Glutaraldehyde	+	+	+	+

#### Prepare Immersion Solution

##### Bleach Solutions (Sodium Hypochlorite)

+ For Bleach, prepare the following solution (NaClO, Sodium Hypochlorite, Household Bleach):

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0.525% (5250ppm) Sodium Hypochlorite Solution (NaClO) (household bleach)	1 Part 5.25% NaClO: 9 Parts Water Ambient/ Room Temp: 62° - 72°F (16.67° - 22.22°C)	25 Minutes

##### Cidex OPA & Glutaraldehyde

+ Prepare the solution following the manufacturer's instructions.

#### Immersion

Position the lens on its side, and then immerse the entire lens in the selected solution for the listed soak time.

#### Rinse and Dry

Remove the lens from the solution and follow steps 2 and 3 from the cleaning steps above.

### IMPORTANT INFORMATION

**⚠️** 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.

**⚠️** Exposure to disinfectant solutions beyond the recommended soak time, and/or exposure to higher concentrations of disinfectant solution, will result in accelerated degradation of most Volk product.

**⚠️** Rings may discolor when exposed to Sodium Hypochlorite or Glutaraldehyde. To avoid further degradation please follow only the disinfection procedures indicated for these products in this document. This color change is purely cosmetic and will not affect the function of the lens.



### STERILIZATION

If the device is used during surgery or contacts an ulcerated cornea, sterilization is required.

**⚠** To avoid surface damage to contact lenses, **NEVER** clean the contact elements with alcohol, peroxide or acetone.



#### CLEANING STEPS

##### 1. Prepare Solution

Prepare a low-foaming, neutral pH, enzymatic cleaner solution (e.g. Enzol) - 2 ounces per gallon using warm (-37-43°C), potable water.

##### 2. Soak

Soak each device in solution for 20 minutes.

##### 3. Brush

After soaking, brush knurled surface of housing with a soft-bristle brush and wipe lens portion with a soft, cotton cloth until all traces of cleaner and soil are removed. Pay special attention to all crevices and other hard-to-reach areas.

**⚠** Do not brush lens portion to avoid scratching; use a soft, cotton cloth.

**NOTE:** Visually inspect all devices after cleaning to ensure all cleaner and foreign matter is removed. Repeat the above, appropriate cleaning procedure using freshly prepared solutions if needed.

##### 4. Rinse

Thoroughly rinse devices in a room temperature, potable water bath (not under running water) until all visible cleaner has been removed.

##### Rinsing should be performed by:

- + Gently shaking the device under water.
- + Bringing the device above the water level.
- + Re-immersing the device under water.
- + This should be completed at least 3 times with fresh rinse water to ensure proper removal of the cleaning solution.

##### 5. Sonicate

Transfer the devices to a freshly prepared enzymatic solution from step 1 and sonicate for 20 minutes.

##### 6. Rinse

After sonication, thoroughly rinse devices in a room temperature, sterile, distilled or deionized water bath (not under running water) until all visible cleaner has been removed.

**NOTE:** Inadequate rinsing could result in trace amounts of cleaning solutions being left on the device. Extended exposure to mineral deposits found in tap water can cause lens damage.

##### 7. Dry

Dry the lens with an ultra-soft, low-lint, cotton cloth such as a cloth diaper.

**⚠** Wiping the lens with a microfiber cloth will cause lens damage. Be sure to use only a soft, lint-free cotton cloth.

**NOTE:** Always dry the device after cleaning. Failure to do so could adversely affect further reprocessing steps.

#### STERILIZATION CHOICES AND STEPS

PRODUCT TYPE	INDIRECT CONTACT LENSES	DIRECT CONTACT LENSES	SPECIALTY TREATMENT LENSES	RESEARCH LENSES
ETO	+	+	+	+

**Ethylene Oxide:** Follow hospital procedures with aeration up to, but not exceeding 130°F / 55°C for contact lenses.

**⚠** To avoid product damage, **NEVER** autoclave or boil lenses.

#### NOTES

- + The use of a Volk Sterilization Case (VSCA or VSCB) or Tray is recommended to avoid product loss or damage.
- + The ring color may fade to a natural aluminum color after multiple repeated reprocessing cycles. This change is purely cosmetic and will not affect the function of the lens.
- + The Volk black leatherette or clamshell lens cases should not be sterilized.