Ocular Vitrectomy Lens Rings

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Ocular Vitrectomy Lens Rings are designed to be used with Ocular vitrectomy lenses in both the Landers Lens Ring System (OLVS-3 or -3N) and the HRI Lens Set (OLVS-HRI). OPV-R is designed for use with the pediatric sized vitrectomy lenses in the Ocular Pediatric Vitrectomy Lens Set (OPV-S).

	Product Code/ Lens Name	**Design**
	**OFV-4** Foxman Vitrectomy Lens Ring	4 down struts. Requires no sutures. Designed for use with a 25g cannula **Technique** § Place ring on eye. § Mark sclera for the two superior cannulas using the 3 & 4mm markings on the ring. § Remove ring. Insert cannulas. § Replace ring.
	**OLV-1** Landers Vitrectomy Lens Ring *(Included in set OLVS-3)*	Stainless steel ring with two suture down struts.
	**OLV-1-TN** Landers Tall Notched Vitrectomy Lens Ring *(Included in set OLVS-3N)*	This stainless steel ring is centered on the cornea. Three notches are designed in the top of the ring for suture placement in the sclera. Height is 3.2mm.
	**OLV-1-IR** Landers Irrigating Vitrectomy Lens Ring	Stainless steel ring features an irrigation port. Sutures secure the two struts to the sclera, which allows blood to be irrigated away and keeps the cornea moist.
	**OLV-1-IN** Landers Notched Irrigating Lens Ring	Stainless steel ring features an irrigation port. Three notches for sutures in the top of the ring. Height is 3.2mm.
	OLV-1S Landers Silicone Ring	Can be used with any Landers System Lens. It allows the surgeon to change lens positions to obtain the optimum viewing angle. It is useful when using a prismatic lens for peripheral vitrectomy procedures. (4 per pack)
	**OLV-1-4P** Landers 4 Post Vitrectomy Lens Ring	The Landers 4 Post Vitrectomy Ring consists of a stainless steel ring with an inside diameter of 11.5mm and four posts set at a 30° angle. The posts are 2mm tall and the ring is 3.2mm tall. The new design permits easier scleral depression in the 9:00 and 3:00 regions. Two posts, with space in between, allow compensation for slightly misplaced sutures to easily maintain ring centration on the cornea. **Technique** § The Landers Ring is positioned with the cornea geometrically centered within the ring. § Using a 5.0 Mersilene suture, the suture needle is inserted immediately next to the limbus at the 3:00 and 9:00 position using a single armed suture. § The suture is then cut midway between the 3:00 and 9:00 posts. § The suture is then tied around both posts on each side. § If the sutures are not placed precisely at the 3:00 and 9:00 positions, the ring may become decentered, compromising the view of the retina. § The first suture is tied loosely holding the ring in place. *If tied too tightly, the ring will tilt upward and may even flip over.* § The second suture is tied tightly in place. § Finally, the first suture is re-tied tightly in place. § If the ring is slightly off center, the knot can be tied over one of the posts rather than both, thus maintaining the centration.

	**OPV-R** Pediatric Vitrectomy Lens Ring	Smaller version of the OLV-1. *(Included in Pediatric Set OPV-S)*
	**OTN-R** Tano Vitrectomy Lens Ring	4 down tabs. Requires only 1 circumferential suture allowing for easy repositioning and removal.

Cleaning

Rinse:	Immediately upon removal from patient's eye, thoroughly rinse in cool or tepid water.
Wash:	Clean thoroughly with mild soap, water and a soft bristle tooth brush.
Rinse:	Thoroughly rinse in cool or tepid water, then dry carefully with *non-linting* tissue.
Then:	Proceed with either disinfection or sterilization instructions.

Disinfection

Soak In:	**GLUTARALDEHYDE**	***OR***	**BLEACH**
	2% or 3.4% aqueous solution		10% solution mixed at: 1 part bleach to 9 parts cool tepid water
	Temperature per manufacturer instructions		
	Minimum exposure time = 20 minutes		Recommended exposure time = 10 minutes
	Caution *To avoid damage to the ring,* do not *exceed recommended exposure time.*		
Then:	Rinse *ring thoroughly* to remove disinfection solution. 3 cycles of 1 minute, with cool or tepid water is recommended.		
	Dry carefully and place in a dry storage case.		
NOTE	These rings are known to be compatible with: Asepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, H_2O_2-3%, and Opti-Cide.		

Sterilization - Autoclave

Prep: Place *ring* in sterilization case.

Process:

Standard Cycle (wrapped)				
Temperature	Time		Temperature	Time
270°F (134°C)	15 minutes minimum	***OR***	250°F (121°C)	30 minutes minimum
Caution	*Use only distilled water in the steam sterilizer.* If not distilled, mineral deposits from hard water (steam) will leave a cloudy film on the *instrument*. The deposit can only be removed by refinishing and repair costs approximate that of a new *instrument*.			

Store: Place in a biological barrier peel pouch to ensure sterility after the process.

For Immediate use only: Flash autoclave (unwrapped) at a minimum of 270°F (134°C) for a minimum of 10 minutes.

Sterilization - ETO

Minimum Time	Temperature	Aeration Time
1 hour	130°F (54°C)	12 hours

Sterilization - Steris System 1

Follow manufacturer's instructions.

Sterilization - Sterrad

Follow manufacturer's instructions, except as noted below.

Caution ***Sterrad is NOT recommended for OLV-1/IN and OLV-1 IR.***

For information on compatibility with alternative product care methods, contact Customer Service.

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