# English EN

## **Avalign Vessel Dilators**

INTENDED USE	Avalign vessel dilators are devices used to enlarge or calibrate vessels during coronary artery bypass or angioplasty procedures. They are designed to locate orifices, to trace the course of abnormal vessels, and to perform various maneuvers of dilation and measurement of annulus and lumen diameters.
INTENDED USER PROFILE	<ul> <li>Surgical instruments should not be used by individuals who are not fully trained in proper cardiovascular surgical techniques</li> <li>Consult relevant medical literature for the appropriate indications, techniques, and risks applicable to the corresponding cardiovascular procedure.</li> </ul>
DEVICE DESCRIPTION	<ul> <li>Surgical instruments composed of medical grade stainless steel.</li> <li>Instruments are supplied NON-STERILE and must be inspected, cleaned and sterilized before each use.</li> <li>Remove all protective caps and sheaths carefully.</li> <li>Devices are critical and require terminal sterilization</li> <li>Devices are not implantable.</li> </ul>
WARNINGS	<ul> <li>Read the Instructions for Use prior to using this device.</li> <li>RISK OF INFECTION: Before use, the entire device, including its accessories must be decontaminated. Inadequate, incorrect, or superficial decontamination can create a serious risk of infection in patients and/or users.</li> <li>Avalign recommends thorough manual and automated cleaning of medical devices prior to sterilization. Automated methods alone may not adequately clean devices.</li> <li>Devices should be reprocessed as soon as possible following use. Instruments must be cleaned separately from cases and trays.</li> <li>All cleaning agent solutions should be replaced frequently before becoming heavily soiled.</li> <li>Prior to cleaning, sterilization and use, all instruments should be inspected to ensure proper function and condition. Do not use instruments if they do not perform satisfactorily.</li> <li>Risk of damage – The surgical instrument is a precision device. Careful handling is important for the accurate functioning of the product. Improper external handling can cause product malfunction.</li> <li>If a device is/was used in a patient with, or suspected of having Creutzfeldt-Jakob Disease (CJD), the device cannot be reused and must be destroyed due to the inability to reprocess or sterilize to eliminate the risk of cross-contamination.</li> </ul>
CAUTION R ONLY	Federal U.S. Law restricts this device to sale, distribution, and use, by, or on order of a physician.
LIMITATIONS ON REPROCESSING	Repeated processing has minimal effect on these instruments. End of life is normally determined by wear and damage due to use.
DISCLAIMER	It is the responsibility of the reprocessor to ensure reprocessing is performed using equipment, materials and personnel in the reprocessing facility and achieves the desired result. This requires validation and routine monitoring of the process. Any deviation by the reprocessor from the instructions provided must be properly evaluated for effectiveness and potential adverse consequences.
INSPECTION AND FUNCTIONAL TESTING	Visually inspect devices for damage or wear. Instruments with broken, cracked, chipped or worn parts or surfaces should not be used, but should be replaced immediately.

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#### **Reprocessing Instructions**

			Keprocessing			1		
TOOLS AND			Cold Tap Water (< 20°	•				
ACCESSORIES		Water	Hot Tap Water (> 40°0	•				
				erse Osmosis (RO) Wate				
		Cleaning Agents			1etriZyme, EndoZime, Enzol			
				hes and/or Pipe Cleaner	•			
		Accessories	· ·	isposable Cloths or equ	ivalent			
			Soaking Pans					
			Medical Compressed					
		Equipment	Ultrasonic Cleaner (So Automated Washer	inicator)				
			Automated Washer					
POINT-OF-USE	1)	Follow health care fa	cility point of use practi	ces. Keep devices mois	t after use to prevent soil fror	n drying and		
AND		remove excess soil a	nd debris from all surfac	ces and hard-to-clean de	esign features.			
CONTAINMENT	2)	Follow universal pred	cautions and contain de	vices in closed or covere	ed containers for transport to	central		
		supply.						
MANUAL	3)	Take the device with	the adapter(s) and acce	essories to the decontan	nination area. Clean, deconta	minate and		
CLEANING	,				ictions in this Instructions for			
	4)			_	Enzol® enzymatic detergent is			
	′		reparation of 1 oz./gallo					
	5)				tions. Allow device to soak fo	r a minimum		
		of 1 minute, flushing all lumens.						
	6)	Scrub the device, usi	ng a soft bristled brush,	paying particular attent	ion to hard to reach areas un	il all visible		
			soil has been removed.					
	7)				dor directions) and sonicate t			
				ution shall be changed v	when it becomes grossly cont	aminated		
	۵١	(bloody and/or turbi	-	1 1 1 1/20/21				
	8)	Rinse all surfaces in running reverse osmosis or deionized (RO/DI) water for a minimum of 3 minutes to remove any residual detergent or debris; flush all internal lumens at least 3 times with the running RO/DI water.						
	٥١					water.		
	9)		clean, soft cloth. Filter		epeat cleaning procedure.			
	10)	visually examine eac	Truevice for cleaningess.	. II VISIBIE SOII TEIIIAIIIS, I	epeat cleaning procedure.			
AUTOMATED	Not	Note: All devices must be manually pre-cleaned prior to any automated cleaning process, follow steps 1-6. Steps 7-9						
CLEANING	are	optional but advised.						
	11)	1) Clean devices within a washer/disinfector utilizing the equipment and detergent manufacturers' instructions						
		per the below minim	um parameters.		1	_		
		Phase	Time (minutes)	Temperature	Detergent Type &			
		Due week 4	02.00	Cald Tan Makan	Concentration	_		
		Pre-wash 1	02:00	Cold Tap Water	N/A	_		
		Enzyme Wash	02:00	Hot Tap Water	Enzyme Detergent	$\dashv$		
		Rinse 1	01:00	Hot Tap Water	N/A N/A	$\dashv$		
	12)	Drying Dry oxecs moisture	15:00	194°F / 90°C	air may be used to aid drying			
	12) 13)				repeat cleaning procedure.	•		
DIGINIE-C-: C-:	13)	visually examine edu	an actice for cleaningess	visioie son remains, i	epeat dearning procedure.			
DISINFECTION	•	Devices must be tern	ninally sterilized (See § S	sterilization).				
	•	Avalign devices are c	ompatible with washer/	disinfector time-temper	rature profiles for thermal dis	infection per		
İ.		ISO 15883.						
				erials should be used by	the end user when nackagin	a the devices		
PACKAGING		Only EDA cleared sta	<ul> <li>Only FDA cleared sterilization packaging materials should be used by the end user when packaging the devices.</li> <li>The end user should consult ANSI/AAMI ST79 for additional information on steam sterilization.</li> </ul>					
PACKAGING						g the devices.		
PACKAGING	•	The end user should				g the devices.		
PACKAGING		The end user should <b>Sterilization Wrap</b>	consult ANSI/AAMI ST7	9 for additional informa	tion on steam sterilization.	_		
PACKAGING	•	The end user should  Sterilization Wrap  o Individual institution	consult ANSI/AAMI ST7	9 for additional informa		_		

#### **Reprocessing Instructions (cont)**

STERILIZATION	Sterilize with steam. The following minimum cycle has been validated for sterilization of Avalign devices:					
	Double Wrapped Instruments:					
	Cycle Type	Temperature	Exposure Time	Pulses	Drying Time	
	Prevacuum	132°C (270°F)	4 minutes	4	25 minutes	
	Gravity Displacement	132°C (270°F)	15 minutes	N/A	30 minutes	
	<ul> <li>The operating instructions and guidelines for maximum load configuration of the sterilizer manufacturer should be followed explicitly. The sterilizer must be properly installed, maintained, and calibrated.</li> <li>Time and temperature parameters required for sterilization vary according to type of sterilizer, cycle design, and packaging material. It is critical that process parameters be validated for each facility's individual type of sterilization equipment and product load configuration.</li> <li>A facility may choose to use different steam sterilization cycles other than the cycle suggested if the facility has properly validated the cycle to ensure adequate steam penetration and contact with the devices for sterilization.</li> </ul>					
	CAUTION: Autoclave to	emperatures shou	ld not exceed 280°F			
STORAGE	After sterilization, dev case.     Care should be taken v				ed in a clean, dry cabinet or storage the sterile barrier.	
MAINTENANCE	<ul> <li>Discard damaged, worn or non-functional devices.</li> <li>Apply lubricant only on the connecting elements (locking mechanism) and moving parts.</li> </ul>					
WARRANTY	<ul> <li>All products are guaranteed to be free from defects in material and workmanship at the time of shipping.</li> <li>All of our products are designed and manufactured to meet the highest quality standards. We cannot accept liability for failure of products which have been modified in any way from their original design.</li> <li>Avalign instruments are reusable and meet AAMI standards for sterilization.</li> </ul>					
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### **Symbols Glossary**

Symbol	Title					
	Manufacturer					
LOT	Lot Number / Batch Code					
REF	Catalogue Number					
	Consult Instructions for Use					
	Caution					
R <sub>X</sub>	Federal Law (USA) restricts this device to sale by or on the order of a physician					