

Weck

## Ligation Solutions

Metal and Polymer Ligation Systems to Help You  
Ligate with Security and Confidence

# Weck Ligation Solutions

## Metal and Polymer Ligation Systems to Help You Ligate with Security and Confidence

Beginning in Edward Weck’s Manhattan storefront in 1884, Weck brand products have been there for surgeons – step-by-step – since the earliest days of modern surgery.

In 1963, the Weck brand redefined the closure market with the introduction of the Hemoclip Traditional Metal Ligating Clip. Over the last fifty years, the Weck brand has continued to refine the science of closure to produce a line of metal and polymer ligation solutions demanded by surgeons around the world.

Whether you prefer the classic feel of metal clips or the modern flexibility of polymer, Teleflex offers ligation products designed to suit your distinct preferences and procedural needs:

- **Weck Hem-o-lok Polymer Locking Ligation Systems** provide unparalleled security based on an ex-vivo study, against leading competitors in three common clip failure modes\*, the ability to ligate larger vessels through a smaller port, and cool ligation. Hem-o-lok Clips are ideal for both open and laparoscopic cases.
- **Horizon Metal Ligation Systems** satisfy your need for traditional metal ligating clips for use in cardiovascular and general surgical applications. Available in a range of sizes, surgeons have relied on Weck Metal Clips for generations.



*\*Data on file (2013 internal study), Teleflex Incorporated, Report #D001591. Testing conducted on porcine carotids, sample size=33, p≤0.05. Clinical performance cannot be extrapolated from the data. Testing pressures range beyond physiological pressures. The Weck Hem-o-lok medium/large clip was compared to Ethicon LIGAMAX 5, Ethicon LIGACLIP ERCA 10 mm, and Covidien Endo Clip III. The Weck Hem-o-lok large clip was compared to Ethicon LIGACLIP ERCA Large Clips and Covidien Endo Clip L.*

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# Weck Hem-o-lok Polymer Locking Ligation System

## Secure-Locking Polymer Technology

### Confidence you can feel

Confidence. That's what the Weck Hem-o-lok Polymer Locking Ligation System from Teleflex provides. Confidence created by a ligation system designed for clip security – firmly seated in the applier, securely closed around the patient vessel.

### Security by design

Based on an ex-vivo study, the Hem-o-lok System delivers unparalleled ligation security compared to leading competitors in three common clip failure modes,\* with the Weck Hem-o-lok Clip's integrated ridges and proprietary distal locking mechanism.

### Polymer flexibility

The Hem-o-lok Clip's non-absorbable polymer composition and flexible hinge allow it to pass through a smaller port and provide a larger distal opening than comparable metal clips. As a result, Hem-o-lok Clips can ligate up to a 10mm structure through a 5mm port, and up to a 16mm structure through a 10mm port.

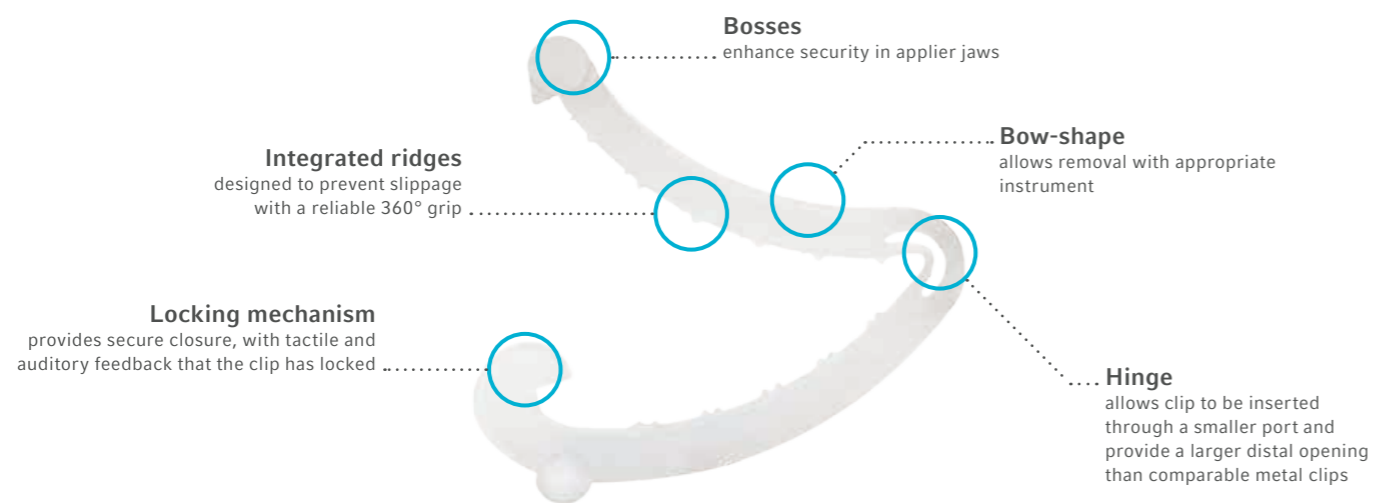
### Cool ligation

Since the Hem-o-lok System is a cool ligation system, there's no chance of thermal spread to vital structures, a common concern of many surgeons when using energy-based ligation solutions.

### Size ranges to meet your needs

The Hem-o-lok System is available in a range of clip sizes: Medium, Medium-Large, Large and Extra-Large. Our broad range of applier lengths (including 45cm endoscopic appliers for extended reach) allows surgeons to deliver clips with control and confidence.

## Weck Hem-o-lok Polymer Ligation Clip Features



\*Data on file (2013 internal study), Teleflex Incorporated, Report #D001591. Testing conducted on porcine carotids, sample size=33, p≤0.05. Clinical performance cannot be extrapolated from the data. Testing pressures range beyond physiological pressures. The Weck Hem-o-lok medium/large clip was compared to Ethicon LIGAMAX 5, Ethicon LIGACLIP ERCA 10mm, and Covidien Endo Clip III. The Weck Hem-o-lok large clip was compared to Ethicon LIGACLIP ERCA Large Clips and Covidien Endo Clip L.

## Manual Load Appliers

### Hem-o-lok Open Appliers

- Open appliers available in Medium, Medium-Large, Large, Extra-Large
- Available in 8" and 11" lengths and curved or right-angle jaws
- Opens at box lock for easy, thorough cleaning



544180



544179



544240

### Hem-o-lok Endoscopic Appliers

- Endoscopic appliers available in Medium-Large, Large, Extra-Large
- Available with 33 cm or extended-length 45 cm shafts
- Available in both one-piece and take-apart designs



544965

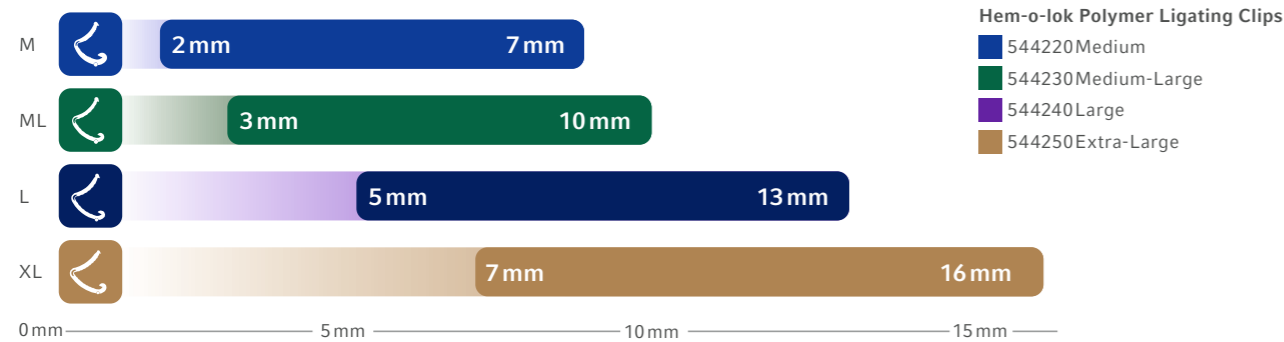


544995T

# Weck Hem-o-lok Polymer Locking Ligation System

## Secure-Locking Polymer Technology

### Vessel/Tissue Bundle Size Range



## Ordering Information

### Weck Hem-o-lok Polymer Locking Ligation System

CLIPS		OPEN MANUAL LOAD APPLIERS/ REMOVERS		ENDOSCOPIC MANUAL LOAD APPLIERS/REMOVERS	
REF.	DESCRIPTION	REF.	DESCRIPTION	REF.	DESCRIPTION
544220	Hem-o-lok Medium Polymer Clips 6 clips/cartridge 14 cartridges per box, sterile	544113	8" Curved		
M		544114	11" Right-Angle (70°)		
		544115	11" Curved		
		544123	11" Remover (for M, ML, L)		
544230	Hem-o-lok Medium-Large Polymer Clips 6 clips/cartridge 14 cartridges per box, sterile	544170	8" Curved	544965	<b>Endo5 ML, 5 mm diameter</b> 33 cm applier
ML		544171	11" Curved	544965L	45 cm applier
		544172	11" Right-Angle (70°)	544965T	34 cm applier, take-apart
		544123	11" Remover (for M, ML, L)	544121	32 cm remover (for ML and L)
				544121L	45 cm remover (for ML and L)
				544121T	32 cm remover, take-apart (for ML and L)
544240	Hem-o-lok Large Polymer Clips 6 clips/cartridge 14 cartridges per box, sterile	544179	11" Right-Angle (70°)	544995	<b>Endo10 L, 10 mm diameter</b> 33 cm applier, 10 mm
L		544180	8" Curved	544995L	45 cm applier, 10 mm
		544181	11" Curved	544995T	34 cm applier, 10 mm, take-apart
		544182	10" Right-Angle (70°), narrow shaft	544121	32 cm remover, 5 mm (for ML and L)
				544121L	45 cm remover, 5 mm (for ML and L)
		544123	11" Remover (for M, ML, L)	544121T	32 cm remover, 5 mm, take-apart (for ML and L)
		544124	11" Remover (for L, XL)	544130	32 cm remover, 10 mm (for L and XL)
				544130L	45 cm remover, 10 mm (for L and XL)
				544130T	33 cm remover, 10 mm take-apart (for L and XL)
544250	Hem-o-lok Extra-Large Polymer Clips 6 clips/cartridge 14 cartridges per box, sterile	544191	11" Curved	544990	<b>Endo10 XL, 10 mm diameter</b> 33 cm applier
XL		544192	11" Right-Angle (70°)	544990L	45 cm applier
		544124	11" Remover (for L, XL)	544990T	34 cm applier, take-apart
				544130	32 cm remover (for L and XL)
				544130L	45 cm remover (for L and XL)
				544130T	33 cm remover, take-apart (for L and XL)
	Storage Tray			544500	capacity: 3 endoscopic 32 cm applicators
				P37319	capacity: 2-3 endoscopic 45 cm applicators

*Hem-o-lok Ligating Clips are not intended for use as a fallopian contraceptive tubal occlusion device.*

*Hem-o-lok Ligating Clips are contraindicated for use in ligating the renal artery during laparoscopic donor nephrectomies.*

# Weck Horizon Metal Ligation System

## Precise Easy-Loading Titanium Clips

The Horizon System is the premium Weck titanium clip ligation platform, providing surgeons a strong, secure clip coupled with an efficient, convenient easy-load cartridge system.

### The Horizon Clip

The pre-formed chevron shape of the Horizon Clip engulfs tissue with precise tip-to-tip closure. The heart-shaped wire is designed to give each clip a firm grip on vessels, while the triangulated cross-section of the clip leg maximizes surface-to-surface contact between clip and jaw, practically eliminating clip fallout.

### The Horizon Cartridge

The design of the Horizon Cartridge creates a nearly frictionless one-hand load. Horizon Cartridges are colour-coded to match applicators and adhesive backing allows convenient placement of the cartridge to any sterile area.

Clip images represent approximate, not exact, sizes.



Microclip



Small



Medium



Medium-large



Large



### Open Applicators

- Available with curved (20°), angled (55°) or right-angled (70°) jaws
- Opens at box-lock for easy, thorough cleaning
- Available in a wide range of applicator lengths including 14"



### Endoscopic Applicators

- Medium, Medium-Large, and Large
- Extended length available (45 cm shaft)
- Large, lightweight rotation knob allows one-finger, 360° rotation of applicator shaft
- Flush ports for thorough cleaning



### Clip Options

- The Horizon Clip Cartridge provides easy and precise loading that can enhance surgical procedure efficiency
- Both 6- and 24-clip cartridges are available



002200



002205

### Specialty Applicator

- The Horizon 11" Multi-Angle Access Open Surgical Applicator for small (wide slot) clip cartridges incorporates a 45° angled jaw (or curved jaw) for an optimal angle of access to the surgical target
- The Horizon Endosphenous Vein Applicator incorporates a 5 mm shaft diameter with a 7 mm angled jaw for ligation of vein branches



*Weck Ligating Clips are not intended for use as a contraceptive tubal occlusion device.  
Weck Ligating Clips are contraindicated for use in ligating the renal artery during laparoscopic donor nephrectomies.*

# Weck Horizon Metal Ligation System

## Precise Easy-Loading Titanium Clips



### Ordering Information

Weck Horizon Metal Ligation System Titanium Ligating Clips					
ITEM CODE	CLIP SIZE	CLIPS/CARTRIDGE	CARTRIDGES/BOX	CLIPS/BOX	
005200	MicroClip	6	30	180	
001200	Small	6	30	180	
001204	Small	24	25	600	
001201	Small-Wide	6	30	180	
001205	Small-Wide	24	25	600	
002200	Medium	6	30	180	
002204	Medium	24	25	600	
003200	Medium-Large	6	20	120	
003204	Medium-Large	24	15	360	
004200	Large	6	20	120	
004204	Large	24	15	360	

### Weck Horizon Metal Ligation System

#### Open Surgical Appliers

ITEM CODE	APPLIER LENGTH	CLIP SIZE	JAW TYPE*
537061	6" (15 cm)	MicroClip	Curved
537081	8" (20 cm)	MicroClip	Curved
137061	6" (15 cm)	Small	Curved
137081	8" (20 cm)	Small	Curved
137085	8" (20 cm)	Small	Angled
137111	11" (28 cm)	Small	Curved
137062	6" (15 cm)	Small-Wide	Curved
137082	8" (20 cm)	Small-Wide	Curved
137086	8" (20 cm)	Small-Wide	Angled
137112	11" (28 cm)	Small-Wide	Curved
237061	6" (15 cm)	Medium	Curved
237081	8" (20 cm)	Medium	Curved
237085	8" (20 cm)	Medium	Angled
237111	11" (28 cm)	Medium	Curved
237115	11" (28 cm)	Medium	Angled
237117	11" (28 cm)	Medium	Right-Angled
237141	14" (35.5 cm)	Medium	Curved
237145	14" (35.5 cm)	Medium	Angled
337081	8" (20 cm)	Medium-Large	Curved
337085	8" (20 cm)	Medium-Large	Angled
337111	11" (28 cm)	Medium-Large	Curved
337115	11" (28 cm)	Medium-Large	Angled
337117	11" (28 cm)	Medium-Large	Right-Angled
337141	14" (35.5 cm)	Medium-Large	Curved
337145	14" (35.5 cm)	Medium-Large	Angled
437081	8" (20 cm)	Large	Curved
437085	8" (20 cm)	Large	Angled
437111	11" (28 cm)	Large	Curved
437115	11" (28 cm)	Large	Angled
437117	11" (28 cm)	Large	Right-Angled
437141	14" (35.5 cm)	Large	Curved
437145	14" (35.5 cm)	Large	Angled

### Weck Horizon Metal Ligation System

#### Endoscopic Ligating Appliers

ITEM CODE	APPLIER LENGTH	DIAMETER	CLIP SIZE	JAW TYPE*
238110	12" (31 cm)	10 mm	Medium	Endoscopic
238170	18" (45 cm)	10 mm	Medium	Endoscopic
238200	13" (32 cm)	5 mm Shaft, 7 mm Jaw	Medium	Endosaphenous
338110	13" (32 cm)	10 mm	Medium-Large	Endoscopic
338170	18" (45 cm)	10 mm	Medium-Large	Endoscopic
438110	14" (36 cm)	12 mm	Large	Endoscopic
438170	18" (45 cm)	12 mm	Large	Endoscopic

#### Endoscopic Ligating Appliers

ITEM CODE	APPLIER LENGTH	DIAMETER	CLIP SIZE	JAW TYPE*
238110T	11" (28 cm)	10 mm	Medium	Endoscopic
338110T	11" (28 cm)	10 mm	Medium-Large	Endoscopic

#### Endoscopic Ligating Appliers

ITEM CODE	APPLIER LENGTH	CLIP SIZE	JAW TYPE*
137117	11" (28 cm)	Small-Wide	45° Angled
137118	11" (28 cm)	Small-Wide	Curved

#### Metal Clip Removers (Removes all Weck Metal Clips)

ITEM CODE	APPLIER LENGTH	STYLE
523120	6.5" (16.5 cm)	Straight
523121	10.5" (26.7 cm)	Bent Shaft, 30° Angle

\*Curved 20°, Angled 55°, Right-Angle 70°

Weck Ligating Clips are not intended for use as a contraceptive tubal occlusion device.  
Weck Ligating Clips are contraindicated for use in ligating the renal artery during laparoscopic donor nephrectomies.

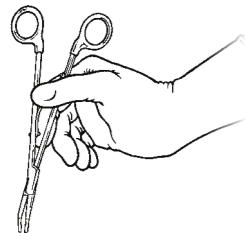
# Weck Clip Loading Methods

## Manual applier technique

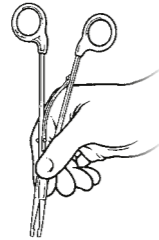
### Ring-Handled Applier Guidelines

To prevent jaw applier damage or dropped clips, the user should avoid any grasp that can compress the two shanks of the applier during loading. Applier is held at an angle appropriate to sliding the jaws into the cartridge.

### Preferred Loading Methods



**Method #1 Shank and Spring**  
One shank and the spring are held between the thumb and index finger, which is placed between shafts to spread jaws and stabilize loading.

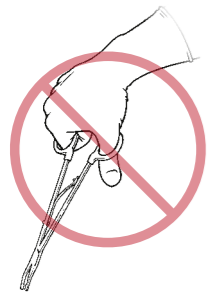


**Method #2 Pencil Grip**  
Box-lock is held between the thumb and side of index finger, with tips of index finger and other fingers supporting box-lock area for stability. The index finger is behind the box-lock, not beside it.

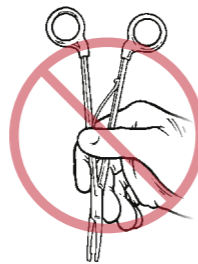


**Method #3 Angled Appliers**  
Thumb should be placed on top of the box-lock while other fingers support one side of the shaft.

### What to Avoid



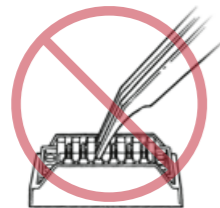
Grasping the applier at both rings tends to force applier tips together and "fights" the loading action. This may cause the applier to twist or rock, allowing jaw damage or misloaded clips.



Holding both shanks of applier, even near the box-lock, may also tend to force jaws together during loading. Keep the index finger behind the box-lock or shank.

### Ring Handle and Endoscopic Applier Clip Loading

### Proper Jaw Angle



Applier jaws need to be positioned perpendicular to the cartridge body for slide-in of the jaw into the cartridge seat. It is necessary to set the shanks of the applier (the main body of the applier) at an acute angle to the cartridge.

# Warranty/Repair

Send all appliers in need of repair or refurbishment to:

Teleflex Medical Australia  
Building B, Level 4  
197 Coward Street  
Mascot NSW 2020

### Open Surgical Appliers

All Weck Ring Handled Reusable Open Surgical Appliers are covered by a warranty. Teleflex will repair, or replace, free of charge, these appliers as long as the appliers are used as intended for application of Weck Clips and have not been repaired by unauthorized personnel.

### Endoscopic Surgical Appliers

Weck Manual Load Endoscopic Appliers are covered by a three year warranty on defects in materials and workmanship and a three year repair service on tip alignment and refurbishment as long as the appliers are used as intended for application of Weck Clips and have not been repaired by unauthorized personnel.

Teleflex | Toll Free: 1300.360.226 | [www.teleflex.com](http://www.teleflex.com)

# Care and Maintenance

## Weck Open and Endoscopic Clip Appliers

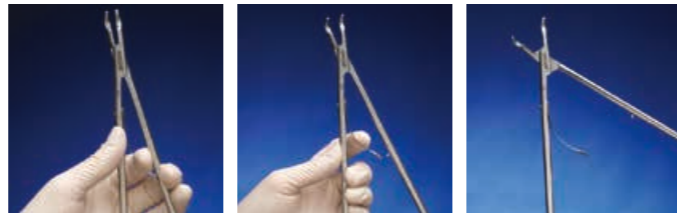
### Cleaning

Follow hospital, Association of the Advancement of Medical Instrumentation (AAMI), Australian College of Perioperative Nurses (ACORN), Perioperative Nurses College of NZNO, or regional standards for cleaning your appliers.

#### Open Appliers

Opening the box lock:

- Lightly squeeze shanks together with one hand
- Lift the spring off the flag
- Open the applicator



#### Endoscopic Appliers – One Piece

Endoscopic appliers are provided with a cleaning port, which permits access to the interior channels and cavities. Uncap the cleaning port and flush the applicator with warm distilled or filtered water for approximately two minutes or until the visible gross debris is removed from the device.



#### Lubrication

Lubrication is essential every time instruments are processed. Do not use mineral oil, petroleum, or silicone-based products. Use a non-silicone water-soluble lubricant prior to sterilization.

### Sterilization

STERILIZATION METHOD	INSTRUMENT CONFIGURATION	TEMPERATURE	EXPOSURE TIME (MINIMUM)	DRYING TIME (MINIMUM)
US PARAMETERS				
Pre-vacuum	Wrapped	270 °F (132 °C)	4 minutes	10 minutes
Pre-vacuum	Wrapped	275 °F (135 °C)	3 minutes	10 minutes
Gravity Displacement	Wrapped	275 °F (135 °C)	10 minutes	10 minutes
NON-US PARAMETERS				
Pre-vacuum	Wrapped	273 °F (134 °C)	3 minutes	10 minutes
Pre-vacuum	Wrapped	279 °F (137 °C)	3 minutes	10 minutes
Gravity Displacement	Wrapped	270 °F (132 °C)	10 minutes	10 minutes

### Inspection

Please examine endoscopic and open appliers for potential damage before use in surgery. Pay particular attention to the jaws. Damaged or misaligned jaws may not allow clips to close acceptably for occlusion of intended structure.

#### Open and Endoscopic Appliers

##### Alignment:

Always check the alignment of the applicator jaws before use. When closed, jaw tips should be directly aligned and not offset.

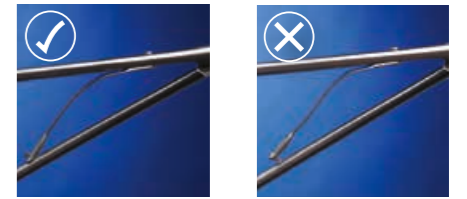


##### Open Appliers

Check the following components of your open clip appliers:

##### Spring:

Examine to ensure spring is not loose, bent, or rusted.



##### Flag Condition:

Examine to ensure flag is not missing or damaged.





## Applier Management

### Two Convenient Options to Manage Your Open Appliers

An essential part of accurate ligation is a finely crafted applier, designed specifically for Weck Clips and maintained to the highest standards. We are proud to provide, service, maintain and replace these appliers for you – ensuring that each clip is applied by a device designed specifically for that clip.

### Two Ways to Obtain Horizon and Traditional Appliers:

#### Option 1 – Applier Purchase

All Weck Appliers are available for purchase. Purchased open appliers will be maintained, repaired or replaced for as long as you own them, at no charge, through Teleflex as long as the appliers are used as intended for application of Weck Clips and have not been repaired by unauthorized personnel. Contact your local Surgical Sales Representative for more details.

#### Option 2 – Applier Placement Program

Hospitals purchasing Weck Clips can take advantage of the Teleflex Applier Placement Program. Weck Open Metal Clip Appliers are placed with the hospital for use with Weck Clips. Teleflex will maintain, repair or replace all appliers needed to be sufficient for the volume of Weck Clips being used. These appliers will be provided to the hospital at no additional charge for exclusive use with Weck Clips. If the hospital discontinues its use of Weck Clips, then the appliers are to be returned to Teleflex (Signed Applier Placement Agreement required).

## Product Use Information

Weck Metal and Polymer Clips are intended for use in procedures involving ligation of vessels or tissue structures. Surgeons should apply the appropriate size clip for the size of the vessel or tissue structure to be ligated.

Weck Ligating Clips are not intended for use as a contraceptive tubal occlusion device. Weck Ligating Clips are contraindicated for use in ligating the renal artery during laparoscopic donor nephrectomy. In procedures other than laparoscopic donor nephrectomy, Teleflex recommends ligation of the renal artery with more than one clip on the patient side with a minimum distal renal artery cuff of 2–3 mm beyond the distal clip. Application of a second clip on all other vessels other than the renal artery should be dictated by the surgeon's judgment. Security of the closure should be confirmed after ligation.

Always check the alignment of the applier jaws before use. When closed, jaw tips should be directly aligned and not offset. Alignment of the jaw is critical for safe application of the clip. If this is not done, patient injury may occur. Follow the Instructions for Use for proper maintenance, care and cleaning necessary to ensure proper functionality.

Do not attempt to close the jaws on a vessel or anatomic structure without a clip properly loaded into the jaws. Closure of empty jaws on a vessel or anatomic structure may result in patient injury. Before applying a clip, verify the structural size and condition of the vessel or structure and use the proper size clip. Ligating clip systems differ in closure characteristics according to clip design and other variables. It is the responsibility of the user to select structures for the application of clips and confirm secure grip of the clips after placement, and after the use of other surgical devices in the immediate area of the application.

Your Weck Applier has been designed and calibrated for use with specific Hem-o-Lok, Horizon, Ligating Clips as indicated. If applicable, applier colour coding matches the colour of the ligating clip cartridge for which it is to be used. Weck does not assume responsibility for unsatisfactory results caused by the use of any equipment or clips not specifically identified by Weck as an integral part of that specific system.

For clip and associated applier information, please refer to the Instructions for Use included with the applier.





 For more information visit [teleflex.com](http://teleflex.com)

Teleflex is a global provider of medical technologies designed to improve the health and quality of people's lives. We apply purpose-driven innovation – a relentless pursuit of identifying unmet clinical needs – to benefit patients and healthcare providers. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anaesthesia, cardiac care, urology, emergency medicine and respiratory care. Teleflex employees worldwide are united in the understanding that what we do every day makes a difference. For more information, please visit [teleflex.com](https://teleflex.com).

Teleflex is the home of Arrow, Deknatel, LMA, Pilling, QuikClot, Rüschi, UroLift and Weck – trusted brands united by a common sense of purpose.

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**For more information, please visit [teleflex.com](https://teleflex.com).**

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