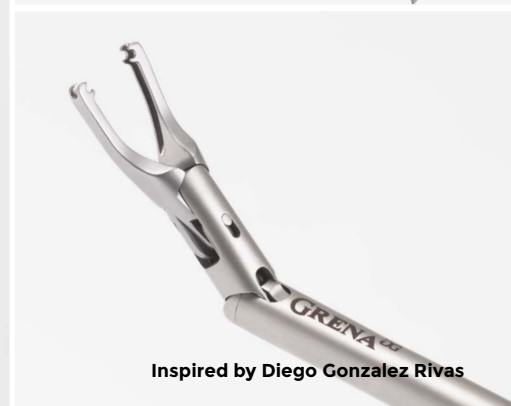


Polymer Ligation System

Click'aV[®] ligating clips & clip applicators

Safe and minimally invasive solution even for the most challenging cases.



PROVIDING SPECIALISTS WITH
INNOVATIVE
HEALTHCARE SOLUTIONS

WITH THE CENTRAL FOCUS ON
PATIENTS' SAFETY AND USERS' COMFORT



Click'aV Plus™ ligating clips

The second generation Click'aV Plus™ is a unique ligating clip equipped with **patented teeth** that significantly increase the patient safety thanks to:

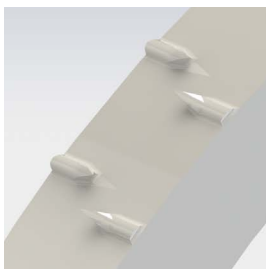
- **Bi-directional tissue stabilization**
- **Increased transverse stability** – eliminates tendency to slide off the vessel due to blood pressure or manipulation in the operation field
- **Atraumatic stabilization of vessels**

In a number of procedures, Click'aV Plus™ ligating clips successfully replace endostaplers or the harmonic scalpel, combining highest security level with cost savings. Equally important is the low interference with CT scanning, radiolucency in X-rays and the great safety in MRIs resulting in the lack of artifacts. Every clips is fitted with the hinge and the latch tested in thousands of procedures.

Click'aV Plus™ clips were specifically designed for:

- large vessels with increased pressure
- locations with difficult access or reduced visibility
- locations where manipulation in the operation field results in higher risk of mechanical clips displacement

Click'aV^{Plus}



Patent No. 10,265,079

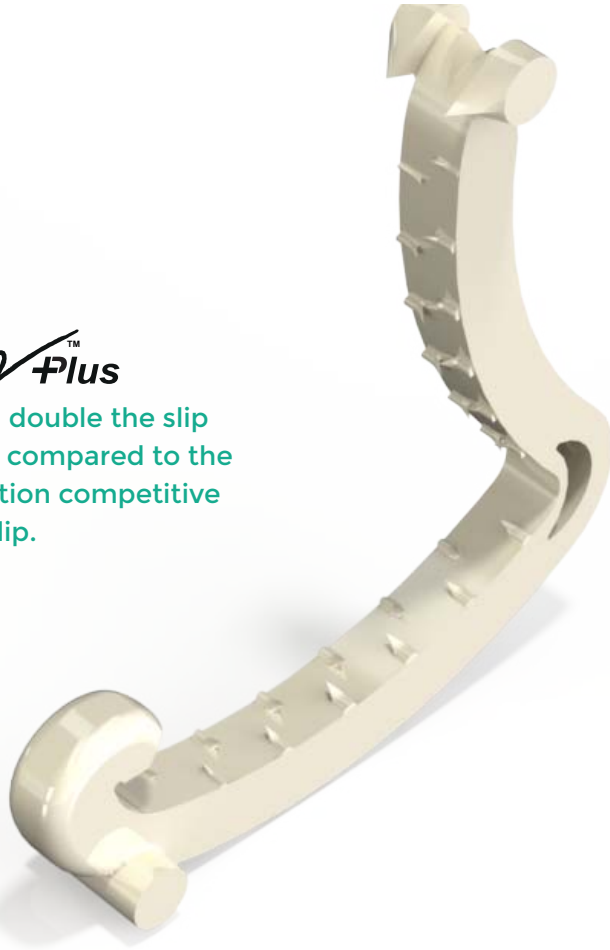
KEY FEATURES:

- 2, 4 or 6 clips per cartridge
- 3 sizes available: ML, L, XL
- Atraumatic 2-ways stabilization
- Color-coded cartridges for easy identification
- Compatible with corresponding Click'aV® applicators
- Adhesive backing of the cartridge

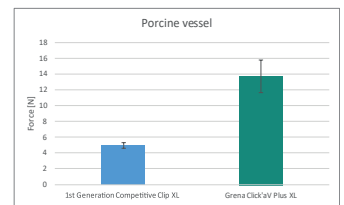
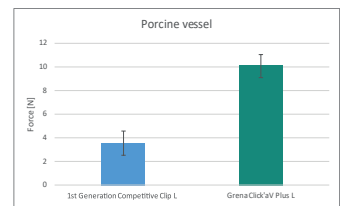
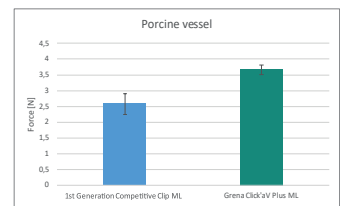


Click'aV^{Plus}

More than double the slip resistance compared to the 1st generation competitive polymer clip.



Transverse stability is a major factor protecting against clip slipping off. Our main objective during the design work on Click'aV Plus™ was to protect the patient from the possibility of clip displacement off the vessel. Result of Grena's Team efforts is the second generation polymer clip - the first clip in the world with ABS built-in.

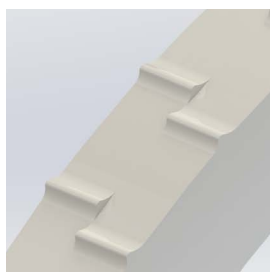


REF	CLIP SIZE	TISSUE BUNDLE SIZE RANGE (MM)	COLOUR	PCS PER CARTRIDGE/ BOX
0301-10ML	Medium-Large	3-10	●	6/20
0301-10L	Large	5-13	●	6/20
0301-10XL	Extra-Large	7-16	●	6/20
0301-10ML04	Medium-Large	3-10	●	4/20
0301-10L04	Large	5-13	●	4/20
0301-10XL04	Extra-Large	7-16	●	4/20
0301-10ML02	Medium-Large	3-10	●	2/20
0301-10L02	Large	5-13	●	2/20
0301-10XL02	Extra-Large	7-16	●	2/20

Click'aV[®] ligating clips

Click'aV[®] ligating clips are implantable medical devices made of an advanced polymer to ensure a high level of biocompatibility along with the structural and dimensional stability over time, necessary for long-lasting patient safety. They are designed to combine the speed of the metal clip with outstanding security comparable to 2.0 suture. This combination leads to extreme time savings.

Click'aV[®]



KEY FEATURES:

- 2, 4, or 6 clips per cartridge
- 4 sizes available: M, ML, L, XL
- Color-coded cartridges for easy identification
- Compatible with corresponding Click'aV[®] Applicators
- Adhesive backing of the cartridge



REF	CLIP SIZE	TISSUE BUNDLE SIZE RANGE (MM)	COLOUR	PCS PER CARTRIDGE/ BOX
0301-03M	Medium	2-7	●	6/20
0301-03ML	Medium-Large	3-10	●	6/20
0301-03L	Large	5-13	●	6/20
0301-03XL	Extra-Large	7-16	●	6/20
0301-03M04	Medium	2-7	●	4/20
0301-03ML04	Medium-Large	3-10	●	4/20
0301-03L04	Large	5-13	●	4/20
0301-03XL04	Extra-Large	7-16	●	4/20
0301-03ML02	Medium-Large	3-10	●	2/20
0301-03L02	Large	5-13	●	2/20
0301-03XL02	Extra-Large	7-16	●	2/20

Click'aV[®] open surgery clip appliers

Click'aV[®] open surgery appliers are available in a wide range of sizes and applier lengths. Made of the highest quality surgical stainless steel to meet the requirements of the most demanding professionals. Handle rings are color-coded matching cartridge hues.

KEY FEATURES:

- Available for Medium, Medium-Large, Large and Extra-Large non-absorbable Click'aV[®] & Click'aV Plus[™] clips
- 2 lengths available: 20 cm and 27 cm
- Made of high quality surgical stainless steel



REF	CLIP SIZE	TIP STYLE	APPLIER LENGTH (CM)	COLOUR	PCS PER BOX
0301-04M20	Medium	Curved	20	●	1
0301-04M27	Medium	Curved	27	●	1
0301-04M27A70	Medium	Right Angled 70°	27	●	1
0301-04ML20	Medium-Large	Curved	20	●	1
0301-04ML27	Medium-Large	Curved	27	●	1
0301-04ML27A70	Medium-Large	Right Angled 70°	27	●	1
0301-04L20	Large	Curved	20	●	1
0301-04L27	Large	Curved	27	●	1
0301-04L27A70	Large	Right Angled 70°	27	●	1
0301-04XL20	Extra-Large	Curved	20	●	1
0301-04XL27	Extra-Large	Curved	27	●	1
0301-04XL27A70	Extra-Large	Right Angled 70°	27	●	1

Click'aV[®] endoscopic clip appliers

Click'aV[®] endoscopic clip appliers are available in a wide range of sizes. Made of the highest quality surgical stainless steel Grena appliers guarantees ergonomic and effective approach in endoscopic procedures. Handle rings are color-coded matching cartridge hues. Precise performance makes Grena appliers the leading choice for surgeons performing endoscopic procedures.

KEY FEATURES:

- Jaws activated by front handle for better stability
- 360° shaft rotation by index finger allows one-hand operation
- Flushing port facilitates easy cleaning, thus eliminating potential contamination
- Made of high quality surgical stainless steel
- Non-detachable design for easier maintenance and durability



REF	CLIP SIZE	TYPE	WORKING LENGTH (CM)	SHAFT/TRO-CAR DIAMETER (MM)	COLOUR	PCS PER BOX
0301-04ME	Medium	Endoscopic	33	5/5	●	1
0301-04MLE	Medium-Large	Endoscopic	33	5/5	●	1
0301-04LE	Large	Endoscopic	33	10/10	●	1
0301-04XLE	Extra-Large	Endoscopic	33	10/10	●	1




Click'aV[®] endoscopic clip appliers 45 cm

In order to carry out bariatric procedures safely, Grena offers extra length endoscopic clip appliers for bariatric surgery.

KEY FEATURES:

- Jaws activated by front handle for better stability
- 360° shaft rotation by index finger allows one-hand operation
- Flushing port facilitates easy cleaning, thus eliminating potential contamination
- Made of high quality surgical stainless steel
- Non-detachable design for easier maintenance and durability



REF	CLIP SIZE	TYPE	WORKING LENGTH (CM)	SHAFT/TRO-CAR DIAMETER (MM)	COLOUR	PCS PER BOX
0301-04MLEB	Medium-Large	Endoscopic	45	5/5		1
0301-04LEB	Large	Endoscopic	45	10/10		1
0301-04XLEB	Extra-Large	Endoscopic	45	10/10		1




Click'aV[®] endoscopic clip appliers 20°

20° endoscopic clip appliers were specifically designed for better access in difficult anatomical conditions.

KEY FEATURES:

- Jaws activated by front handle for better stability
- 360° shaft rotation by index finger allows one-hand operation
- Flushing port facilitates easy cleaning, thus eliminating potential contamination
- Made of high quality surgical stainless steel
- Non-detachable design for easier maintenance and durability





REF	CLIP SIZE	TYPE	WORKING LENGTH (CM)	SHAFT/TRO-CAR DIAMETER (MM)	COLOUR	PCS PER BOX
0301-04MLE	Medium-Large	Endoscopic	33	5/10		1
0301-04LE	Large	Endoscopic	33	10/12		1
0301-04XLE	Extra-Large	Endoscopic	33	10/12		1

Click'aV[®] detachable endoscopic clip appliers

This products line is offered for users with the highest hygienic regimes. The device can be disassembled to allow medical personnel to clean and disinfect it according to the applicable local requirements without any compromise. The other advantage of this development is very high flexibility and compatibility across the components.

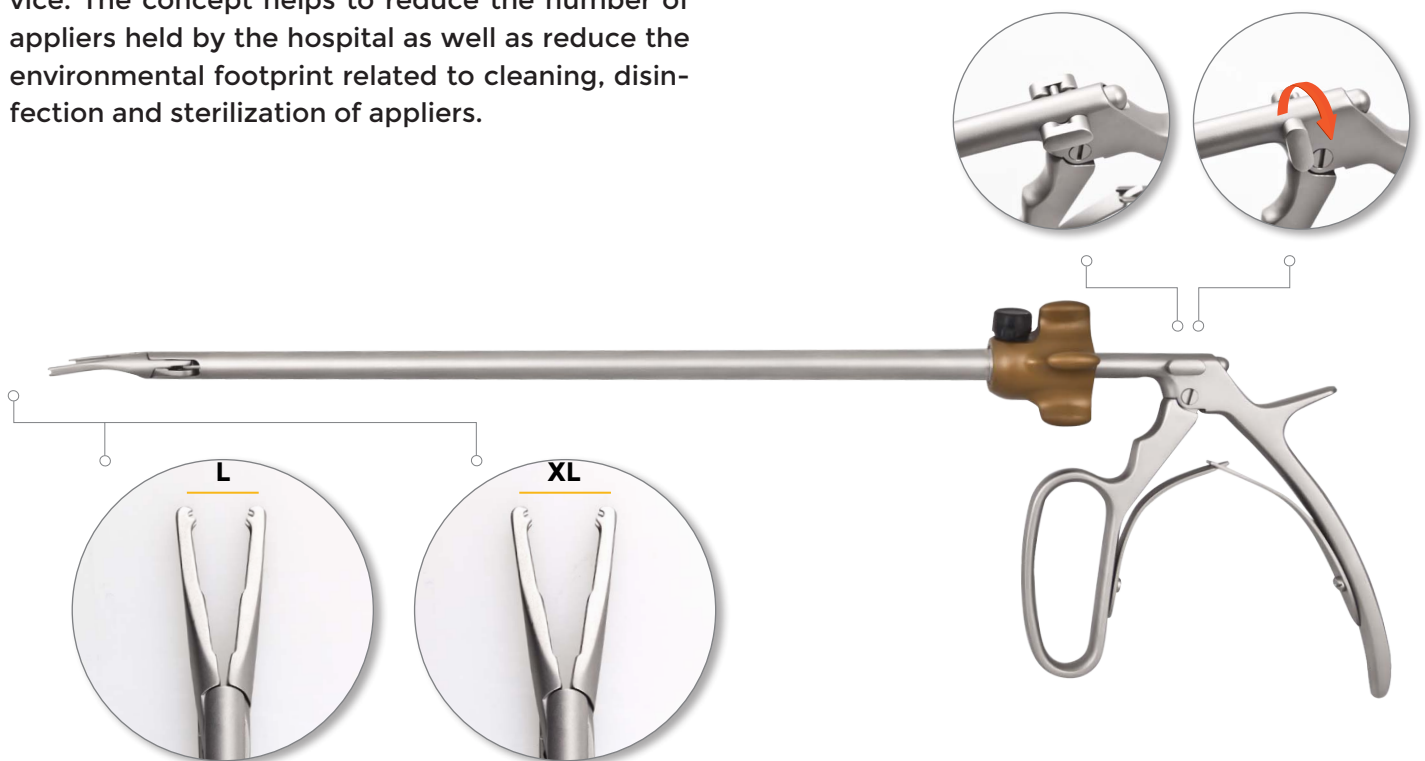


REF	CLIP SIZE	PRODUCT	WORKING LENGTH (CM)	SHAFT/TRO-CAR DIAMETER (MM)	COLOUR	PCS PER BOX
0301-04MMLEHS	Medium/Medium-Large	Handle with shaft	33	5/5		1
0301-04LXLEHS	Large/ Extra-Large	Handle with shaft	33	10/10		1

REF	CLIP SIZE	PRODUCT	FITS	PCS PER BOX
0301-04MEI	Medium	Insert	0301-04MMLEHS	10
0301-04MLEI	Medium-Large	Insert	0301-04MMLEHS	10
0301-04LEI	Large	Insert	0301-04LXLEHS	10
0301-04XLEI	Extra-Large	Insert	0301-04LXLEHS	10

Click'aV[®] universal endoscopic clip appliers

Listening to the suggestions of surgeons we designed a universal clip applicator (patent pending) that can be used to load either L or XL polymer clips. With an easy switch of a lever the operator decides what clip size is to be used with the device. The concept helps to reduce the number of applicators held by the hospital as well as reduce the environmental footprint related to cleaning, disinfection and sterilization of applicators.



REF	CLIP SIZE	TYPE	WORKING LENGTH (CM)	SHAFT/TRO-CAR DIAMETER (MM)	COLOUR	PCS PER BOX
0301-04LXLUNE	Large/ Extra-Large	Endoscopic	33	10/10	○	1

Gonzalez Rivas endoscopic clip appliers 45°

The 45° endoscopic clip applier is the unique device designed in collaboration with Dr. Diego Gonzalez Rivas to allow better access in VATS surgery. It facilitates clip application in the most challenging VATS cases, especially in single access port procedures.

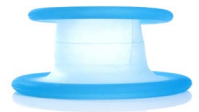





Dr. Diego Gonzalez Rivas

Degree in Medicine and Surgery by the Universidad de Santiago de Compostela (1992-1998). Resident at the Thoracic Surgery Unit at Juan Canalejo hospital in La Coruna from 1999 to 2004. Medical doctor in Thoracic Surgery since July 2004, with medical practice at the Thoracic Surgery Unit at Complejo Hospitalario Universitario in Santiago de Compostela until April 2005 and from then in the Thoracic Surgery Unit at Complejo Hospitalario Universitario de A Coruna.



45° Endoscopic Appliers fit Grena's disposable wound protectors/ retractors RingProtect™ Gonzalez Rivas modified.
REF 0221-070070035NA



REF	CLIP SIZE	TYPE	WORKING LENGTH (CM)	SHAFT/ TROCAR DIAMETER (MM)	RETRACTOR (recommended)	COLOUR	PCS PER BOX
0301-04MLEA45	Medium-Large	Endoscopic	33	5/10	RingProtect™ Gonzalez Rivas modified		1
0301-04LEA45	Large	Endoscopic	33	10/NA	RingProtect™ Gonzalez Rivas modified		1
0301-04XLEA45	Extra-Large	Endoscopic	33	10/NA	RingProtect™ Gonzalez Rivas modified		1

Omnifinger™ articulating endoscopic clip appliers

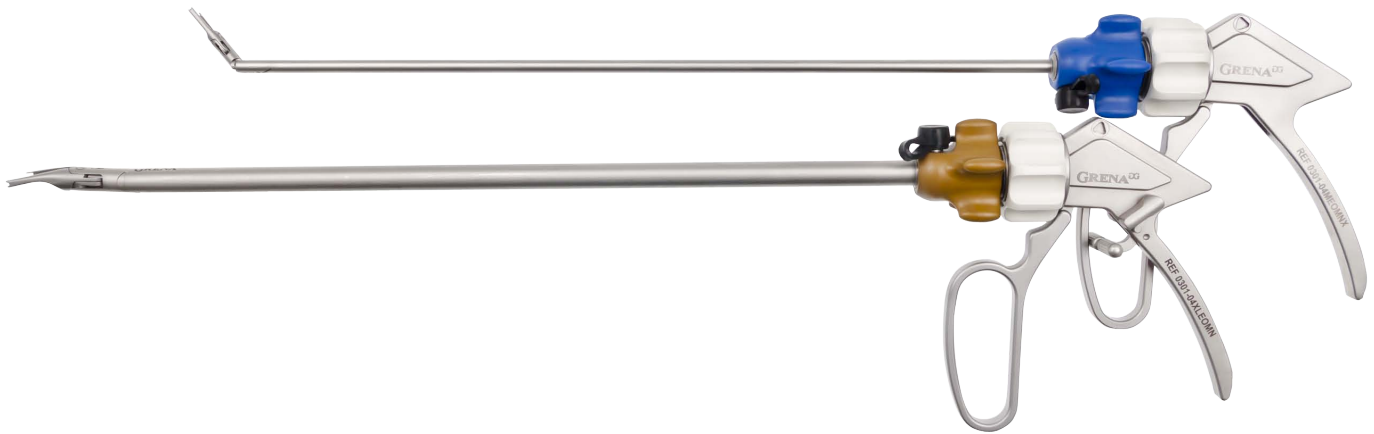
Omnifinger™ is a unique articulating endoscopic clip applier designed in collaboration with Dr. Diego Gonzales Rivas. It was specifically developed to deal with challenging cases.

KEY FEATURES:

- 60° of total angulation
- 2 shaft diameter available: 5 mm and 10 mm
- 2 lengths available: 36 cm and 47 cm
- Articulation and 360° shaft rotation by index finger allows one-hand operation
- Flushing port facilitates easy cleaning, thus eliminating potential contamination
- Made of high quality surgical stainless steel
- By default without lock, version with lock available for special order



Patent pending



REF	SIZE	LOCK	COLOUR	SHAFT DIAMETER (MM)	TROCAR DIAMETER (MM)	WORKING LENGTH (CM)	BOX QUANTITY (PCS)
0301-04MEOMN	M	YES	⦿	5	5	36	1
0301-04MEOMNX	M	NO	⦿	5	5	36	1
0301-04MLEOMN	ML	YES	⦿	5	5	36	1
0301-04MLEOMNX	ML	NO	⦿	5	5	36	1
0301-04LEOMN	L	YES	⦿	10	10	36	1
0301-04LEOMNX	L	NO	⦿	10	10	36	1
0301-04XLEOMN	XL	YES	⦿	10	10	36	1
0301-04XLEOMNX	XL	NO	⦿	10	10	36	1
0301-04MEOMNB	M	YES	⦿	5	5	47	1
0301-04MEOMNBX	M	NO	⦿	5	5	47	1
0301-04MLEOMNB	ML	YES	⦿	5	5	47	1
0301-04MLEOMNBX	ML	NO	⦿	5	5	47	1
0301-04LEOMNB	L	YES	⦿	10	10	47	1
0301-04LEOMNBX	L	NO	⦿	10	10	47	1
0301-04XLEOMNB	XL	YES	⦿	10	10	47	1
0301-04XLEOMNBX	XL	NO	⦿	10	10	47	1

Clip Removers



REF	CLIP SIZE	PRODUCT	TIPS	PCS PER BOX
0301-R804MMLL	M, ML, L	Open-surgery clip remover	-	1
0301-R804XL	XL	Open-surgery clip remover	-	1
0301-R804MLLE	M, ML, L	Endo-surgery clip remover	-	1
0301-R804LXLE	L, XL	Endo-surgery clip remover	Recommended for L	1
0301-R804MLLEB	M, ML, L	Endo-surgery clip remover bariatric	-	1
0301-R804LXLEB	L, XL	Endo-surgery clip remover bariatric	Recommended for L	1

INDEX

Extensive list of the available clip appliers and clip removers

REF	CLIP SIZE	TYPE
0301-04ME	M	Clicka'V ® Applier Endo
0301-04MEB	M	Clicka'V ® Applier Endo Bariatric
0301-04MEA20	M	Clicka'V ® Applier Endo 20 degrees Angled
0301-04MEA20B	M	Clicka'V ® Applier Endo 20 degrees Angled Bariatric
0301-04MEA45	M	Clicka'V ® Applier Endo 45 degrees Angled
0301-04MEA45B	M	Clicka'V ® Applier Endo 45 degrees Angled Bariatric
0301-04MLE	ML	Clicka'V ® Applier Endo
0301-04MLEB	ML	Clicka'V ® Applier Endo Bariatric
0301-04MLEA20	ML	Clicka'V ® Applier Endo 20 degrees Angled
0301-04MLEA20B	ML	Clicka'V ® Applier Endo 20 degrees Angled Bariatric
0301-04MLEA45	ML	Clicka'V ® Applier Endo 45 degrees Angled
0301-04MLEA45B	ML	Clicka'V ® Applier Endo 45 degrees Angled Bariatric
0301-04LE	L	Clicka'V ® Applier Endo
0301-04LEB	L	Clicka'V ® Applier Endo Bariatric
0301-04LEA20	L	Clicka'V ® Applier Endo 20 degrees Angled
0301-04LEA20B	L	Clicka'V ® Applier Endo 20 degrees Angled Bariatric
0301-04LEA45	L	Clicka'V ® Applier Endo 45 degrees Angled
0301-04LEA45B	L	Clicka'V ® Applier Endo 45 degrees Angled Bariatric
0301-04XLE	XL	Clicka'V ® Applier Endo
0301-04XLEB	XL	Clicka'V ® Applier Endo Bariatric
0301-04XLEA20	XL	Clicka'V ® Applier Endo 20 degrees Angled
0301-04XLEA20B	XL	Clicka'V ® Applier Endo 20 degrees Angled Bariatric
0301-04XLEA45	XL	Clicka'V ® Applier Endo 45 degrees Angled
0301-04XLEA45B	XL	Clicka'V ® Applier Endo 45 degrees Angled Bariatric
0301-04MMLEHS	M&ML	Clicka'V ® Applier Endo Detachable - Handle and shaft
0301-04LXLEHS	L&XL	Clicka'V ® Applier Endo Detachable - Handle and shaft
0301-04MMLEHSB	M&ML	Clicka'V ® Applier Endo Detachable - Handle and shaft Bariatric
0301-04LXLEHSB	L&XL	Clicka'V ® Applier Endo Detachable - Handle and shaft Bariatric
0301-04MEI	M	Clicka'V ® Applier Endo Detachable - Insert
0301-04MEIB	M	Clicka'V ® Applier Endo Detachable - Insert Bariatric
0301-04MEA20I	M	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled
0301-04MEA20IB	M	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled Bariatric
0301-04MEA45I	M	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled
0301-04MEA45IB	M	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled Bariatric
0301-04MLEI	ML	Clicka'V ® Applier Endo Detachable - Insert
0301-04MLEIB	ML	Clicka'V ® Applier Endo Detachable - Insert Bariatric
0301-04MLEA20I	ML	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled
0301-04MLEA20IB	ML	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled Bariatric

0301-04MLEA45I	ML	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled
0301-04MLEA45IB	ML	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled Bariatric
0301-04LEI	L	Clicka'V ® Applier Endo Detachable - Insert
0301-04LEIB	L	Clicka'V ® Applier Endo Detachable - Insert Bariatric
0301-04LEA20I	L	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled
0301-04LEA20IB	L	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled Bariatric
0301-04LEA45I	L	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled
0301-04LEA45IB	L	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled Bariatric
0301-04XLEI	XL	Clicka'V ® Applier Endo Detachable - Insert
0301-04XLEIB	XL	Clicka'V ® Applier Endo Detachable - Insert Bariatric
0301-04XLEA20I	XL	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled
0301-04XLEA20IB	XL	Clicka'V ® Applier Endo Detachable - Insert 20 degrees Angled Bariatric
0301-04XLEA45I	XL	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled
0301-04XLEA45IB	XL	Clicka'V ® Applier Endo Detachable - Insert 45 degrees Angled Bariatric
0301-04M20	M	Clicka'V ® Applier Open Surgery, 20cm
0301-04M27	M	Clicka'V ® Applier Open Surgery, 27cm
0301-04M27A70	M	Clicka'V ® Applier Open Surgery, 27cm, 70 degrees Angled
0301-04ML20	ML	Clicka'V ® Applier Open Surgery, 20cm
0301-04ML27	ML	Clicka'V ® Applier Open Surgery, 27cm
0301-04ML27A70	ML	Clicka'V ® Applier Open Surgery, 27cm, 70 degrees Angled
0301-04L20	L	Clicka'V ® Applier Open Surgery, 20cm
0301-04L27	L	Clicka'V ® Applier Open Surgery, 27cm
0301-04L27A70	L	Clicka'V ® Applier Open Surgery, 27cm, 70 degrees Angled
0301-04XL20	XL	Clicka'V ® Applier Open Surgery, 20cm
0301-04XL27	XL	Clicka'V ® Applier Open Surgery, 27cm
0301-04XL27A70	XL	Clicka'V ® Applier Open Surgery, 27cm, 70 degrees Angled
0301-R804MLLE	M&ML	Clicka'V ® Clip Remover Endo for sizes M and ML
0301-R804MLLEB	L&XL	Clicka'V ® Clip Remover Endo for sizes M and ML Bariatric
0301-R804LXLE	M&ML	Clicka'V ® Clip Remover Endo for sizes L and XL
0301-R804LXLEB	L&XL	Clicka'V ® Clip Remover Endo for sizes L and XL Bariatric
0301-R804MLLEI	M&ML	Clicka'V ® Clip Remover Endo Detachable - Insert for sizes M and ML
0301-R804MLLEIB	L&XL	Clicka'V ® Clip Remover Endo Detachable - Insert for sizes M and ML Bariatric
0301-R804LXLEI	M&ML	Clicka'V ® Clip Remover Endo Detachable - Insert for sizes L and XL
0301-R804LXLEIB	L&XL	Clicka'V ® Clip Remover Endo Detachable - Insert for sizes L and XL Bariatric
0301-R804MMLL	M&ML&L	Clicka'V ® Clip Remover Open Surgery for sizes M, ML and L
0301-R804XL	XL	Clicka'V ® Clip Remover Open Surgery for size XL



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