

# RELIEF™

## Laparoscopic Instrument Handle

Patent Pending

Finally, a solution for muscle tension and chronic symptoms caused by repetitive motions during laparoscopic instrument use.



Ref. No.  
91902-D-RLF

- Addresses repetitive motion discomfort and injuries experienced by surgeons
- Reduces muscle, nerve and tendon stress associated with grasping motions
- Tension on all muscles of the hand, arm and shoulder is decreased
- Allows the thumb to follow its natural sequence of movements
- Ambidextrous for full user adaptability
- Compatible with Mediflex Cutting Edge™ and Deluxe Instrument Systems

INJURY PREVENTION • ERGONOMIC • TACTILE

# RELIEF™ Laparoscopic Instrument Handle

The Relief Handle has a simple yet effective design. The thumb ring of the handle pivots and adapts itself to the thumbs movement in each direction, without restriction. The thumb is able to follow its natural sequence of movements. Consequently, the leading cause of tension on all muscles of the surgeons hand, arm and shoulder is greatly reduced.



## Injury Prevention

Pain caused by awkward motions and positions is reduced, repetitive motion and pressure symptoms can be prevented.

## Ergonomic

Relief Handle is ambidextrous and features a pistol design with an ergonomic oval shaped pivotable thumb ring.

## Tactile

Through relaxed motion sequences, tactile perception is dramatically increased.

## ORDERING INFORMATION

The Relief Handle is compatible with the Mediflex Cutting Edge™ and Deluxe Modular Laparoscopic Instrument Systems. An extensive line of tip patterns are available as well as shaft diameters and lengths to accommodate any procedure. Refer to specific product brochures for selection of tips and system components.

REF. NO.	DESCRIPTION
91901-RLF	Cutting Edge™ Relief Handle w/Shaft 5mm x 33cm
91902-D-RLF	Deluxe Relief Handle
91903-DR-RLF	Deluxe Relief Handle with Ratchet



## LITERATURE CITATIONS

### Prevention of laparoscopic surgeon's thumb.

*Surg Endosc.*, 1995 Jun;9(6): 738-9. Kano N, Yamakawa T, Ishikawa Y, Miyajima N, Ohlaj S, Kasugai H.

- A problem we sometimes have encountered involves a ring of pressure that develops around the surgeon's thumb at the end of the procedure, which is accompanied by an area of paresthesia in the distribution of the lateral digital nerve.

### Laparoscopic surgeon's thumb.

*Arch Surg.*, 1993 Oct;128(10):1172. Kano N, Yamakawa T, Kasugai H.

- The area of paresthesia was just digital to the site where the lateral digital nerves were compressed by a handle of retraction forceps.

### Ergonomics in laparoscopic surgery.

*J Minim Access Surg.*, 2010 Apr-Jun;6(2):31-36. Supe AN, Kulkarni GV, Supe PA.

- Reports of thenar neuropathy have arisen due to the use of awkward thumb grips in case of laparoscopic pistol-grip instruments.

### Superficial nerve damage of thumb of laparoscopic surgeon.

*Surg Laparosc Endosc Percutan Tech* 2001 Jun;11(3):207-8. Lee WJ, Cae YS.

- We report a case of digital nerve (superficial branch of the radial nerve) compression injury in the thumb caused by repeated compression at the proximal phalanx level by a finger grip of a laparoscopic instrument during laparoscopic surgery.

### Laparoscopic procedures are associated with a significant risk of digital nerve injury for general surgeons.

*Ann R Coll Surg Engl* 2001;84: 443-444. Lawther RE, Kirk GR, Regan MC

- There have been sporadic reports of laparoscopic instruments causing digital nerve injuries in surgeons. The concern regarding such injuries is that they may alter tactile sensation to an extent that the surgeon's performance is impaired in subsequent operations.

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