







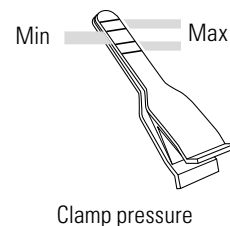
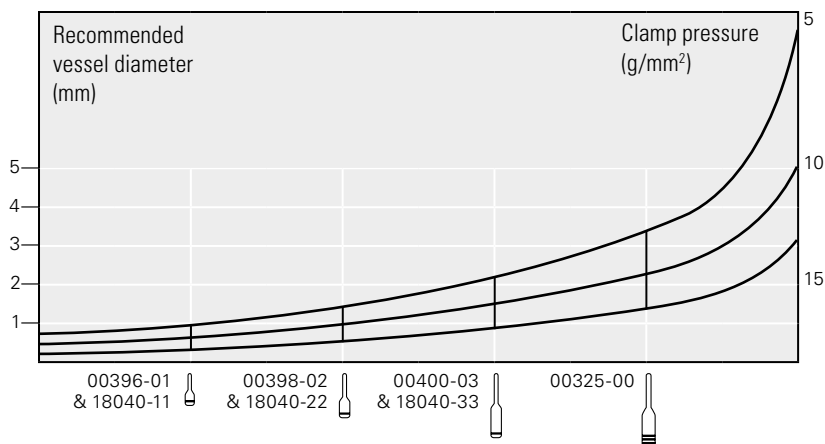


Clamp Size and Clamp Pressure

Clamp pressure is determined by the closing force of the clamp (in grams), divided by the area of the vessel wall that is compressed between the jaws (in square millimeters). Thus, the smaller the vessel, the higher the pressure exerted.

Despite the wide range of closing forces, the pressure exerted by each clamp, big or small, remains consistent throughout the series. Each size of clamp exerts a pressure of 5g/mm² when used on the largest vessel in its range, and 15g/mm² when used on the smallest vessel. Even at the higher range, S&T's micro clamps have the gentlest working pressure of any small vessel clamp available.

Clamp (ea)	L x W (mm)	Vessel Diameter Range (mm)
00396-01 & 18040-11	3,5 x 1,0	0,4 - 1,0  
00398-02 & 18040-22	5,5 x 1,5	0,6 - 1,5  
00400-03 & 18040-33	7,5 x 1,75	1,0 - 2,25  
00325-00	10 x 2,15	2,0 - 5,0  



Micro Clamps

S&T®



S&T B-1
No. 00396-01



S&T B-2
No. 00398-02



S&T B-3
No. 00400-03



S&T HD-S
No. 00325-00

Double Micro Clamps

For vascular approximation at anastomosis. These clamps are mounted on a 10 mm sliding bar and can easily be moved by applying gentle force. The distance between the jaws of the clamps is adjustable from 3 to 16 mm.



No. 18040-11



No. 18040-22



No. 18040-33

Micro Clamp Applying Forceps

S&T®



14 cm
Only compatible with
S&T Micro Clamps

With lock
No. 00071-14

Without lock
No. 00072-14

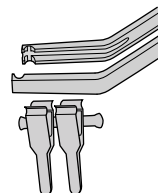
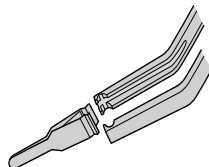
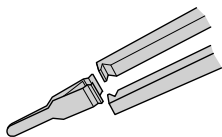
Micro Clamp Applying Forceps



14,5 cm
Compatible with S&T
Micro Clamps and
Double Micro Clamps

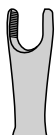
Without lock
No. 18040-14

CLAMPS



Micro Clip Applicator with Lock

MOST POPULAR



14 cm
For use with our 18055 and 18555 series micro serrefines

With lock
No. 18056-14

Forceps Style Clip Applicator

This applicator features special U-shaped side supports for improved seating of the clips.



14 cm
For use with our 18055 and 18555 series micro serrefines

Without lock
No. 18057-14

Stainless Steel Micro Serrefines

Used to obtain a clear surgical field for extended arterial cross-clamping.

MOST POPULAR

Delicate atraumatic serrations
Spring width: 2 mm



	No. 18055-01	-02	-03	-04
Jaw length (mm)	10	8	6	4
Jaw width (mm)	2	2	1	0,75
Total length (mm)	19	16	15	13
Jaw pressure (g)	60	85	100	125



	No. 18055-05	-06
Jaw length (mm)	6	4
Jaw width (mm)	1	0,75
Total length (mm)	17	16
Jaw pressure (g)	100	125

Titanium Micro Serrefines

TITANIUM

Lightweight with strong clamping pressure.

For more information see page 203.

Delicate atraumatic serrations
Spring width: 2 mm



	No. 18555-01	-02	-03	-04
Jaw length (mm)	10	8	6	4
Jaw width (mm)	2	2	1	0,75
Total length (mm)	19	16	15	13
Jaw pressure (g)	60	85	100	125

Cautionary note: Micro Serrefines should never be compressed with fingers; use only the appropriate applicator No. 18056-14 or No. 18057-14.

CLAMPS



Moria Vessel Clamp

Straight

33 mm
 Finely serrated (atraumatic)
 Light pressure
 For vessels up to 2 mm in diameter
 Calibrated to 15g/mm²
 1,8 mm wide, 3 cm long



Moria 201/A

No. 18320-11

Moria Bulldog Type Clamps

53 mm
 Non-serrated
 Strong pressure
 2 mm wide



Straight

Moria MC43

No. 18374-43



Curved

Moria MC44

No. 18374-44

Dietrich Bulldog Clamps

Serrated
 Good access to deep seated vessels
 Closing pressure: 50 g (light)
 Weight: 3 g



Straight
 52,5 mm

No. 18038-45



Angled
 50 mm

No. 18039-45

Bulldog Type Serrefines

Serrated

Straight
 28 mm
 Medium pressure



No. 18050-28

Curved
 28 mm
 Medium pressure



No. 18051-28



Straight
 35 mm
 Strong pressure

No. 18050-35

Straight
 50 mm
 Strong pressure

No. 18050-50



Curved
 35 mm
 Strong pressure

No. 18051-35



Curved
 50 mm
 Strong pressure

No. 18051-50

Schwartz Micro Serrefines

Non-serrated
 Strong pressure
 26 mm



Straight



No. 18052-01

Light bend



No. 18052-02

Sharp bend



No. 18052-03

Mini Serrefines

28 mm
 Smallest bulldog-type hemostatic clamps
 Medium pressure
 Gentle serrations
 2 mm wide

Straight



No. 18054-28

Curved



No. 18053-28

Bulldog Artery Spring Clamp

Can be used with a minimum of distortion for MRI investigations.



For more information see page 203.

Straight



30 mm
 Serrated
 Light pressure

No. 18144-30

CLAMPS





Silver Neuro Clips

These single-use, silver neuro clips are meant for permanent vessel occlusion.

Pkg. of 100 clips
No. 18040-00

Vascular Occluders

Applications

- Fast, dependable zero-flow baseline determination in blood flow studies.
- Partial to full occlusion of vessels for circulation research studies.
- Prolonged implantations, such as chronic blood flow studies.
- Constriction of soft organs in acute or chronic applications.

Operation

- Step 1** Apply the occluder cuff around the exposed blood vessel. Secure it in place with suture material through the eyelets.
- Step 2** Occlude the vessel to the desired degree by inflating the diaphragm with air or liquid injected into the actuating tube using a syringe and blunt needle. Clamp the tubing to maintain occlusion of the vessel over time.
- Step 3** To deflate, simply withdraw the air or liquid.

Benefits

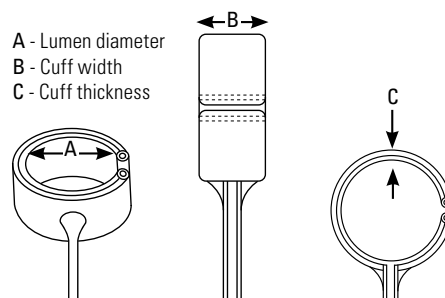
- Occlusion is accomplished without traction on vessels or surrounding tissues.
- The actuating tube may be exteriorized from the occlusion site for remote actuation.
- Performance during implantations is reliable and consistent.
- Autoclavable or cold sterilized, and easily maintained.
- Made from soft, flexible 100% silicone rubber.
- Fully operational with instant response using air, liquids, or inert gases.

Selection

The lumen diameter when deflated is usually the determining factor in the selection of the proper device. Select the occluder size that provides a slightly loose fit around the subject vessel. The cuff width and thickness will vary, depending on models and sizes.



The actuating tube length is 90 cm and measures 0,76 mm ID x 1,6 mm OD. Detailed instructions are included.



VO-1.5 N

Lumen diameter: 1,5 mm
Cuff width: <3,5 mm
Cuff thickness: 1,5 mm

No. 18080-01

VO-2

Lumen diameter: 2 mm
Cuff width: 5 mm
Cuff thickness: 1,5 mm

No. 18080-02

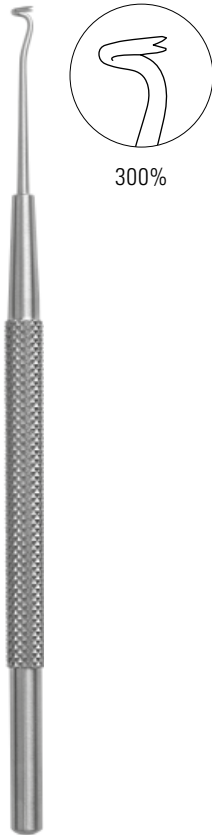
VO-3

Lumen diameter: 3 mm
Cuff width: 5 mm
Cuff thickness: 1,5 mm

No. 18080-03

V-Hook

Aids in feeding fine suture around blood vessels, works very similar to ligation aids.



300%



11 cm
Tip diameter: 0,4 x 0,2 mm

No. 18052-12

Ligation Aids

A handy instrument for leading a fine suture under and around a blood vessel for tying-off purposes. Also useful for ligating peripheral nerves. Grooves toward hole help threading.



300%

Ultrafine



10,5 cm
Hole diameter: 0,4 mm

No. 18062-12



18063-13



200%

200%



13,5 cm
Hole diameter: 1 mm

No. 18062-13



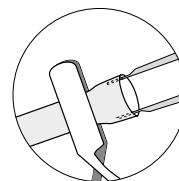
13,5 cm
Hole diameter: 1 mm

No. 18063-13

LIGATION

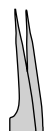
Vessel Dilators

Highly modified forceps with elongated, parallel tips which are highly polished. Designed for controlled intraluminal vessel dilation.



S&T®

S&T®



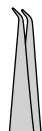
Angled 10°

11 cm
Tip diameter: 0,1 mm

No. 00126-11

Tip diameter: 0,2 mm

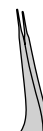
No. 00125-11



Angled 45°

13,5 cm
Tip diameter: 0,2 mm

No. 00276-13



Angled 10°

12 cm
Tip diameter: 0,1 mm

No. 18131-12

Tip diameter: 0,2 mm

No. 18132-12

Balanced Instruments

Balanced instruments are designed to put the center of gravity between the thumb and index finger. This is accomplished by adding a slight counter weight to the proximal end of the instruments. The design enhances tactile feel, aiding in better control and precision.

Vessel Dilators

The tips of these multipurpose forceps are configured to enable their use as dilators at the front, as well as needle holders and tying forceps further in the back. The platform at the tips close parallel ensuring a reliable grip.

Vessel Dilator



80% of actual size



Straight

14,5 cm
Suture tying platform
Tip diameter: 0,1 mm

No. 18601-15



80% of actual size



Straight

15 cm
Suture tying platform
Tip diameter: 0,3 mm

No. 18602-15



80% of actual size



Angled

14,5 cm
Smooth
Tip diameter: 0,2 mm

No. 18603-14

Micro Cannulation System

This micro cannula is most helpful for quick and easy insertion in arteries and veins. It can be used as an “indwelling” catheter during long term experiments. With care, thorough rinsing and sterilization, it can be reused several times. Detailed instructions are included.



Features

- Biocompatible Teflon® tubing.
- Cannula size 0,33 mm OD – 0,16 mm ID
- A pointed stainless steel stylus (trocar), to aid in vascular penetration and allow a maximum range of cannula manipulation during insertion.
- Contoured tip for easy insertion, fitted with shoulder for “tie-in” to prevent accidental removal.
- Female luer connection for linkage to infusion lines.



CANNULATION

1 Approach
Cannulation Forceps (Item No. 18403-11) and Spinal Cord Hook (Item No. 10162-12) aid in the insertion process.

2 Insertion
Remove trocar and advance cannula.

3 Secure
Use shoulder hub and suture to “tie in” cannula to prevent accidental removal.

Instruments sold separately.

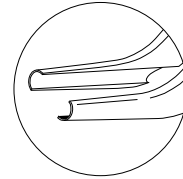
8 cm

Cannula size 0,33 mm OD - 0,16 mm ID

No. 18000-10

Vessel Cannulation Forceps

These vessel cannulation forceps are useful whenever a fine plastic tube has to be introduced into a small blood vessel of almost equal size. The hollowed jaws hold the tubing securely without deforming it. The tip of the tubing is directed exactly into the vessel opening without damage to the vessel from unwanted movement.



11 cm
For tubing between
0,5 and 1 mm OD

No. 00574-11



11 cm
For tubing of 0,35 mm OD

No. 11280-11

11 cm
For tubing of 0,5 mm OD

No. 11281-11

11 cm
For tubing of 1 mm OD

No. 11282-11



11,5 cm
For tubing of 0,35 mm OD

No. 18403-11

11,5 cm
For tubing of 0,6 mm OD

No. 18406-11

13,5 cm
For tubing of 0,6 mm OD

No. 18406-13

CANNULATION

