Titanium Aorta Vascular Clamps

(continued)

SATINSKY TITANIUM VASCULAR CLAMPS

359191 Vena Cava clamp with 30 mm operational DeBakey jaw length, 10" (25 cm)
359192 Vena Cava clamp with 25 mm operational DeBakey jaw length, 10" (25 cm)
359193 Vena Cava clamp with 20 mm operational DeBakey jaw length, 10" (25 cm)

DIEFENBACH BULLDOG CLAMP

353000 Curved serrated 10 x 2 mm jaws, 1 1/2" (3.8 cm)

JOHNS HOPKINS (BLALOCK) BULLDOG CLAMPS

353001 Straight, 1 1/2" (3.8 cm)
353002 Straight, 2" (5 cm)
353003 Straight, 2 1/4" (5.7 cm)
353004 Straight, 2 1/2" (6.3 cm)
353005 Straight, 2 3/4" (7 cm)
353006 Straight, 3" (7.6 cm)
353008 Straight, 3 1/2" (9 cm)
353011 Curved, 1 1/2" (3.8 cm)
353012 Curved, 2" (5 cm)
353013 Curved, 2 1/4" (5.7 cm)
353014 Curved, 2 1/2" (6.3 cm)
353015 Curved, 2 3/4" (7 cm)
353016 Curved, 3" (7.6 cm)
353018 Curved, 3 1/2" (9 cm)
HESS ANGULAR MOSQUITO TIP SERREFINE
The pointed, serrated tips greatly facilitate cannulation of very small blood vessels where exposure is limited. The weak spring avoids crushing of the vasculature.

353025  2 1/8" (5.5 cm)

BULLDOG CLAMP APPLYING FORCEPS
This long clamp makes fast application and removal of any bulldog clamp an easy task, even in the most inaccessible spot.

353035  9 1/2" (24.1 cm)

SCHWARTZ CLAMP HOLDING FORCEPS

353040  7 5/8" (19.3 cm)

SCHWARTZ MICRO-BULLDOGS
For temporary occlusion of minor vessels.

353041  Straight, 1" (2.5 cm)
353042  Slight curve, 1" (2.5 cm)
353043  Acute curve, 1" (2.5 cm)

DEBAKEY CROSS ACTION BULLDOG CLAMPS
These AtrauGrip® jaw clamps are used for temporary occlusion of major peripheral arteries. They are made in several sizes to facilitate their application under varying circumstances. They present a relatively smooth surface with particular attention to the elimination of suture-catching projections.

353050  Straight, 7.9 cm (3 1/8") overall length, jaw 2 cm (3/4")
353052  Straight, 8.9 cm (3 1/2") overall length, jaw 2.9 cm (1 1/8")
353054  Straight, 10.9 cm (4 5/16") overall length, jaw 4.9 cm (1 15/16")
353056  Straight, 12.4 cm (4 7/8") overall length, jaw 6.8 cm (2 11/16")
353060  Curved, 7.3 cm (2 7/8") overall length, jaw 1.8 cm (11/16")
353062  Curved, 8.4 cm (3 5/16") overall length, jaw 3 cm (1 1/4")
353064  Curved, 9.6 cm (3 3/4") overall length, jaw 4.5 cm (1 3/4")
353066  Curved, 11 cm (4 5/16") overall length, jaw 5.7 cm (2 1/4")

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### BULLDOG CLAMPS

**Santulli Angular Model Bulldog Clamp**

- **353070** Jaw length 1 3/16" (3 cm)

**Wylie Lumbar Bulldog Clamp**

Jaw is more gently curved than the standard DeBakey bulldog. Designed for placement posterior to the aorta for occlusion of lumbar arteries.

- **353075** Overall length 7.5 cm (2 15/16"), jaw length 2 cm

**Beall Bulldog Clamps**

- **353092** Straight, 3 5/16" (8.5 cm)
- **353094** Curved, 4 1/2" (11.4 cm)
- **353096** Curved, 4 1/2" (11.4 cm)

**Glover Style Bulldog Clamps**

With AtrauGrip® jaws. These clamps are designed to permit regulation of the tension by means of an adjusting screw. The largest sizes were made specifically for temporary occlusion of large arteries such as the carotid, subclavian and iliac.

- **353100** Straight, 5.7 cm (2 1/4") overall length, jaw 1.8 cm (3/4")
- **353102** Straight, 7 cm (2 3/4") overall length, jaw 3.2 cm (1 1/4")
- **353105** Straight, 9 cm (3 1/2") overall length, jaw 3.9 cm (1 9/16")
- **353110** Curved, 5 cm (2") overall length, jaw 1.8 cm (3/4")
- **353112** Curved, 6.1 cm (2 7/16") overall length, jaw 3.2 cm (1 1/4")
- **353115** Curved, 9 cm (3 1/2") overall length, jaw 3.9 cm (1 9/16")

**Effler-Groves Special Lightweight Bulldog Clamp**

- **355819** Delicate model, overall length 2 3/4" (6.9 cm), for clamping the mammary artery

**Glover Style Bulldog Clamp**

- **353120** Angular model, 2.7 cm (1") jaw

**Wood Bulldog Clamps**

Strong closing pressure.

- **353123** Straight, 8mm jaw
- **353124** Angular, 8 mm jaw
- **353125** Straight, 12 mm jaw
- **353126** Angular, 12 mm jaw
- **353127** Straight, 20 mm jaw
- **353128** Angular, 20 mm jaw
**BULLDOG CLAMPS**

**DIETHRICH BULLDOG CLAMPS**
Low tension clamps for coronary arteries.

- **353150** Straight, 8.7 mm jaw
- **353151** Straight, 11.1 mm jaw
- **353152** Straight, 20 mm jaw
- **353153** Angled, 8 mm jaw
- **353154** Angled, 12 mm jaw
- **353155** Angled, 20 mm jaw

**JACOBSON BULLDOG CLAMPS**

- **353131** Straight, 1 7/8" (4.7 cm)
- **353132** Curved, 1 11/16" (4.2 cm)

**SENNING FEATHERWEIGHT BULLDOG CLAMPS**
Very lightweight, 2 grams. Available in 4 tensions. Tension may be readjusted if necessary. Parallel jaws consist of double, opposing finely serrated rows. 1 3/4" (4.5 cm).

- **353135** No. 1, Strong
- **353136** No. 2, Medium Strong
- **353137** No. 3, Medium Light
- **353138** No. 4, Light
MICRO BULLDOG CLIPS AND APPLIERS
Closing force is approximately 170 grams.
Recommended for single use only.

Micro-Aneurysm Clips
357580 Straight, 7 mm
357581 Straight, 9 mm
357582 Angled, 9 mm
357583 Slight curve, 9 mm
357586 Applying forceps for
Micro-Aneurysm Clips, 7 1/4” (18.4 cm)

Mini-Aneurysm Clips
357590 Straight, 4 mm
357591 Straight, 6 mm
357592 Curved, 7 mm
357593 Applying forceps for
Mini-Aneurysm Clips, 8 1/4” (21 cm)
Caution: These clips should be compressed only when
properly seated in the appropriate applying forceps,
ever with the fingers. If compression of a clip is
started but the clip is not used, it must be discarded
and a new clip used.

Ring Handled Bulldog Clamps
DEBAKEY RING HANDLE BULLDOG CLAMPS
These short, sturdy clamps are intended for use in place of
the longer sizes of “squeeze handle” bulldogs. They measure
only 2 3/4” (7 cm) from the center point of the box lock to
end of the ring handles, averaging approximately 4 3/4”
(12 cm) to 5 1/8” (13 cm) overall length depending on shape.
Narrow AtrauGrip® jaws and spring handles provide firm,
non-traumatizing grip.

353182 Straight, jaw length 2 1/4” (5.7 cm)
353186 Curved, jaw length 2 3/8” (6 cm)
353189 Angled 45˚, jaws 1 3/16” (3 cm)
past angle, curved shafts
(additional patterns continued on next page)
Ring Handled Bulldog Clamps

(continued)

DEBAKEY RING HANDLE BULLDOG CLAMPS
(continued)

These short, sturdy clamps are intended for use in place of the longer sizes of “squeeze handle” bulldogs. They measure only 2 3/4” (7 cm) from the center point of the box lock to end of the ring handles, averaging approximately 4 3/4” (12 cm) to 5 1/8” (13 cm) overall length depending on shape. Narrow AtrauGrip® jaws and spring handles provide firm, non-traumatizing grip.

- **353192** Angled 90°, jaws 1 3/4” (4.4 cm) past angle, straight shafts
- **353195** S-shaped, curved jaws 2 3/8” (6 cm) long and curved shafts

GREGORY MINIATURE VASCULAR CLAMPS

Very delicate, small vessel occlusion clamps, with AtrauGrip® jaws 1.5 mm wide and Life-Lok® box lock.

- **353183** Straight, extra light, 4 3/4” (12 cm)
- **353187** Curved, extra light, 4 1/8” (10.4 cm)
- **353190** Angled 45°, extra light, 4 3/8” (11.1 cm)
### Micro Bulldog Clamps

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65100</td>
<td>5/16” (8 mm), straight blade 1 x 3 mm</td>
</tr>
<tr>
<td>65105</td>
<td>3/8” (10 mm), straight blade 1 x 5 mm</td>
</tr>
<tr>
<td>65125</td>
<td>7/16” (11 mm), angled blade 1 x 5 mm</td>
</tr>
<tr>
<td>65145</td>
<td>7/16” (11 mm), curved blade 1 x 6 mm</td>
</tr>
<tr>
<td>65155</td>
<td>Applying forceps for Kleinert-Kutz Micro Vessel Clips, 2” (5 cm)</td>
</tr>
</tbody>
</table>

### KLEINERT-KUTZ MICRO VESSEL CLIPS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65100</td>
<td>5/16” (8 mm), straight blade 1 x 3 mm</td>
</tr>
<tr>
<td>65105</td>
<td>3/8” (10 mm), straight blade 1 x 5 mm</td>
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</tr>
<tr>
<td>65145</td>
<td>7/16” (11 mm), curved blade 1 x 6 mm</td>
</tr>
<tr>
<td>65155</td>
<td>Applying forceps for Kleinert-Kutz Micro Vessel Clips, 2” (5 cm)</td>
</tr>
</tbody>
</table>

### RIZZUTI ANGLED FORCEPS

Applier opens approximator simultaneously or individually.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65175</td>
<td>5 1/2” (13.9 cm)</td>
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</tbody>
</table>

### TEMPORARY OCCLUSION CLIPS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65108</td>
<td>8 x 1.5 mm blade</td>
</tr>
<tr>
<td>65109</td>
<td>12 x 2 mm blade</td>
</tr>
</tbody>
</table>

### BRACHIAL LARGE VESSEL CLIPS

24 mm blade.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65110</td>
<td>Straight</td>
</tr>
<tr>
<td>65111</td>
<td>Tapered</td>
</tr>
</tbody>
</table>
Micro Bulldog Clamps (continued)

LOUISVILLE MICRO VESSEL APPROXIMATOR
With suture staying frame.

- 65172 1/2" (12.7 mm), blades 8 x 1.5 mm
- 65173 3/8" (9.5 mm), blades 5 x 1 mm

MICRO CLIP STERILIZING TRAYS

- 65199 1 3/4" x 2 3/4" x 1/2"
- 87702 Micro perforated utility case with sliding micro perforated lid, 3" x 3" x 5/8"

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BULLDOG CLAMPS

Micro Bulldog Clamps (continued)

RENAL PERFUSION CLAMPS

- Designed to reduce risk of intimal damage.
- Eliminates necessity for artery cannulation.
- Minimizes disadvantages of en bloc perfusion and preservation.

353140  10 mm x 15 mm AtrauGrip® jaw  
(Pediatric, single renal artery)  
353142  10 mm x 25 mm AtrauGrip® jaw  
(Adult, multiple renal arteries)  
353143  10 mm x 30 mm AtrauGrip® jaw  
(Adult, widely spaced multiple renal arteries)
Titanium Bulldog Clamps

DEBAKEY TITANIUM BULLDOG CLAMPS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>359122</td>
<td>Straight, 3” (7.5 cm)</td>
<td></td>
</tr>
<tr>
<td>359123</td>
<td>Straight, 3 3/8” (8.5 cm)</td>
<td></td>
</tr>
<tr>
<td>359124</td>
<td>Straight, 4” (10 cm)</td>
<td></td>
</tr>
<tr>
<td>359125</td>
<td>Straight, 4 3/4” (12 cm)</td>
<td></td>
</tr>
<tr>
<td>359126</td>
<td>Curved, 3” (7.5 cm)</td>
<td></td>
</tr>
<tr>
<td>359127</td>
<td>Curved, 3 3/8” (8.5 cm)</td>
<td></td>
</tr>
<tr>
<td>359128</td>
<td>Curved, 4” (10 cm)</td>
<td></td>
</tr>
<tr>
<td>359129</td>
<td>Curved, 4 3/4” (12 cm)</td>
<td></td>
</tr>
<tr>
<td>359130</td>
<td>90° angle, 2 3/4” (7 cm)</td>
<td></td>
</tr>
<tr>
<td>359131</td>
<td>45° angle, 4 3/4” (12 cm)</td>
<td></td>
</tr>
</tbody>
</table>

CARLENS MEDIASTINOSCOPIES

These instruments are for use in inspection of the mediastinum through a short incision in the suprasternal notch and a passage dissected down along the anterior surface of the trachea. A variety of instruments are available for use in obtaining tissue specimens under direct vision.

The short mediastinoscope is suitable for inspection of the mediastinum above the bifurcation. The long and extra long models are for the region of the carina.

- **522300P** Short, tube working length 3 3/4” (9.5 cm), fiber optic light carrier, replacement light carrier 526350
- **522301** Long, tube working length 5 3/4” (14.5 cm), fiber optic light carrier, replacement light carrier 526351
- **522302** Extra long, tube working length 6 7/8” (17.5 cm), fiber optic light carrier, replacement light carrier 526352
Many Pilling vascular clamps feature the patented AtrauGrip\textsuperscript{\textregistered} non-traumatic jaws and Life-Lok\textsuperscript{\textregistered} mortise box lock.

Ratchets on Pilling vascular clamps provide the precision control needed for arterial clamping. Ratchets are designed with steps (1 x 7, 1 x 9, 1 x 11) to furnish the specific amounts of desired pressure. Jaws are precision set by hand.

Jaws on Pilling clamps are set with precision. Coordination of ratchet length and jaw setting provide the precise amount of required compression.

Many styles of Pilling AtrauGrip\textsuperscript{\textregistered} clamps are available with spring handles. With this construction feature, a portion of the shaft is flattened or otherwise altered and specially tempered to eliminate rigidity and provide a softness proportionate with the overall size and purpose of the instrument. The intention is to minimize trauma to vessels with the soft spring handles but hold securely with AtrauGrip\textsuperscript{\textregistered} jaws.

**History and Achievements**

Since 1814, well before the Civil War, Pilling has designed and manufactured high quality surgical instruments. As one of the oldest surgical instrument companies in the world, we have continued our tradition of craftsmanship and innovation which has established us as the leaders in our field. As a result of these efforts, a very large proportion of the cardiovascular surgical instruments being used in surgery today have been developed by Pilling. Pilling was the first surgical instrument company to receive a United States and Worldwide patent for an innovation in the design of a non-traumatic jaw serration, the AtrauGrip\textsuperscript{\textregistered} jaw.

**Why Pilling**

Every cardiovascular instrument that we produce is set and checked by hand, then checked again to assure that it has the “feel” so essential to the surgeon. Pilling has gained international acclaim for providing the ultimate in surgical tools. Working closely with the world’s top specialists, we continue to customize instrumentation to meet their exacting individual requirements. We have designed over 500 vascular clamps.

Most Pilling clamps are covered by Patent No. 2,668,538 and other patents.

*AtrauGrip*\textsuperscript{\textregistered} and *Life-Lok*\textsuperscript{\textregistered} are registered trademarks of Pilling TFX Surgical Specialties.
AORTIC VASCULAR CLAMPS

**ATRAUGRIP® JAWS**
A single row of finely serrated teeth opposing a double row, precisely crafted are designed to deliver the most minimal trauma to tissue.

**TIPS**
Uniformly rounded. Virtually eliminates the potential for suture snag.

**JAWS**
Jaws on Pilling clamps are set with precision. Coordination of ratchet length and jaw setting provide the precise amount of required compression.

**CREST**
Prevents inadvertent pinching of tissue by providing an expansion area for the tissue.

**RATCHETS**
Provide the finite control necessary in cardiovascular thoracic surgery. They are designed to furnish the precise increments of pressure desired. Furnished in 1 x 7, 1 x 9, 1 x 11 steps.

**SHANKS**
Tempered to eliminate rigidity while providing proportionate softness.

**FINGER RINGS**
Comfortably sized.
A single row of serrated teeth opposing a double row. The most commonly used jaw design, (and most imitated). Proven through many years’ use at hospitals throughout the world, on adult peripheral vascular, aortic occlusion and partial occlusion clamps.

A small version of the original AtrauGrip® used on most bulldogs, vascular tissue forceps and numerous pediatric clamps.

The smallest size AtrauGrip® being used on many new pediatric and adult peripheral vascular clamps, bulldogs and forceps.

Double row of serrated teeth opposing a triple row. This modified version of the AtrauGrip® serration, having a broader clamping surface, is used on large clamps for aortic cross clamping and on diseased and calcified arteries. Clamps with the 2 x 3 serration are also used frequently in general surgery as bowel clamps.

Two opposing rows of fine atraumatic teeth. Originally designed especially for surgery on infants and children the jaws grasp vessels firmly with less danger of crushing. Also available on a limited group of adult vascular clamps.

Single row of opposing teeth. The narrowest available vascular clamp. Designed for neonatal vascular surgery, these clamps have also proven of value in adult surgery of the carotid femoral and popliteal arteries and for creating A.V. Fistulas.
AORTIC VASCULAR CLAMPS

GLOVER PATENT DUCTUS CLAMPS

- **353800** Straight, 8” (20.3 cm) long, AtrauGrip® jaw, 1 1/4” (3.2 cm), 1 x 9 ratchets
- **353802** Angular, 8 1/8” (20.6 cm) long, AtrauGrip® jaw, 1 1/4” (3.3 cm), 1 x 9 ratchets

GERBODE MODIFIED PATENT DUCTUS CLAMP

The Glover clamps described above have been redesigned with extra narrow 1” (2.5 cm) AtrauGrip® jaws to provide for maximum length of cut vessel for more convenient suturing.

- **353806** Angular, overall length 8” (20.3 cm)

GLOVER COARCTATION CLAMPS

- **353810** Straight, 9” (23 cm) long, AtrauGrip® jaw, 2 1/8” (5.5 cm), 1 x 9 ratchets
- **353812** Angular, 8 7/8” (22.5 cm) long, AtrauGrip® jaw, 2 1/8” (5.5 cm), 1 x 9 ratchets

*(additional patterns continued on next page)*
AORTIC VASCULAR CLAMPS

GLOVER COARCTATION CLAMPS (continued)

353815 Extra long, straight, 10 1/2” (26.7 cm) long, AtrauGrip® jaw, 2 3/4” (7 cm), 1 x 9 ratchets
353817 Extra long, angular, 10 1/2” (26.7 cm) long, AtrauGrip® jaw, 2 3/4” (7 cm), 1 x 9 ratchets

GLOVER CURVED CLAMPS

353825 Standard size, AtrauGrip® jaws curved on 1 1/4” (3.1 cm) radius, jaw length at (B) is 2 1/8” (5.5 cm), (A) length, 1 3/4” (4.5 cm), (A) depth 7 mm, overall length 8 1/2” (21.5 cm)
353827 Extra long, AtrauGrip® jaws curved 1 3/8” (3.5 cm) radius, jaw length at (B) is 2 3/4” (7 cm), (A) length 2 1/4” (5.7 cm), (A) depth 7/16” (1.2 cm), overall length 9 3/4” (24.7 cm)

GLOVER RIGHT ANGLE CURVED CLAMPS

353835 Right angled AtrauGrip® jaws curved on 1 1/4” (3.1 cm) radius, jaw length at (B) is 2” (5 cm), (A) length 1 9/16” (4 cm), (A) depth 7 mm, overall length 7 3/4” (19.6 cm)

(additional patterns continued on next page)
GLOVER RIGHT ANGLE CURVED CLAMSPS

(continued)

353837 Right angled, extra long Atraugrip® jaws curved on 1 3/8" (3.5 cm) radius, jaw length at (B) is 2 9/16" (6.5 cm), (A) length 2 1/16" (5.3 cm), (A) depth 11 mm, overall length 8 7/8" (22.5 cm)

GLOVER SPOON SHAPED CLAMSPS

353840 Standard size, Atraugrip® jaws curved on 1 1/4" (3.1 cm) radius, jaw length at (B) is 2" (5 cm), (A) length, 1 9/16" (4 cm), (A) depth 7 mm, overall length 8 1/2" (21.7 cm)

353842 Extra long Atraugrip® jaws curved on 1 3/8" (3.5 cm) radius, jaw length at (B) is 2 9/16" (6.5 cm), (A) length 2 1/16" (5.3 cm), (A) depth 11 mm, overall length 10 1/2" (26.6 cm)

FAVALORO PROXIMAL ANASTOMOSIS CLAMP

353546 Overall length 8" (20.3 cm), Atraugrip® jaws, width 1 3/4" (4.5 cm), depth 9/16" (15 mm)
AORTIC VASCULAR CLAMPS

MITCHELL AORTOMY CLAMP

353588  8" (20.3 cm) long, AtrauGrip® jaws, 1" (2.5 cm), 1 x 9 ratchets

WYLIE ABDOMINAL AORTA CLAMP

353658  AtrauGrip® jaws, 8 1/2" (21.5 cm)

WYLIE “J” CLAMPS

AtrauGrip® jaws very acutely curved. Width at (A) 1 1/4" (3.3 cm), depth at (B) 1" (2.5 cm).

353655  Model No. 1, 9 5/8" (24.4 cm)
353656  Model No. 2, 9 1/8" (23.2 cm)
HARKEN CLAMPS
A matched set of four clamps identical in length and weight but with varying jaw shapes.

354031 No. 1 curve, AtrauGrip® jaws, 10 1/2" (26.7 cm)
354032 No. 2 curve, AtrauGrip® jaws, 10 1/8" (25.7 cm)
354033 No. 3 curve, AtrauGrip® jaws 10 1/16" (25.5 cm)
354034 No. 4 curve, AtrauGrip® jaws, 9 5/8" (24.5 cm)
354035 Set of 4 clamps

SATINSKY CLAMPS
These instruments, originally designed for secure non-crushing grip in clamping the vena cava, have proven to be the most popular and versatile of all cardiac clamps. They are now provided in a variety of jaw types and sizes as listed. Dull, non-glare finished stainless steel.

354000 10 3/8" (26.3 cm) length, large AtrauGrip® jaw 2" (5 cm), 1 x 11 ratchets
354002 10" (25.5 cm) length, medium AtrauGrip® jaw 1 1/2" (4 cm), 1 x 11 ratchets

(additional patterns continued on next page)
AORTIC VASCULAR CLAMPS

SATINSKY CLAMPS (continued)
These instruments, originally designed for secure non-crushing grip in clamping the vena cava, have proven to be the most popular and versatile of all cardiac clamps. They are now provided in a variety of jaw types and sizes as listed. Dull, non-glare finished stainless steel.

354004  9 11/16" (24.6 cm) length, small AtrauGrip® jaw, 1 1/4" (3.2 cm), 1 x 11 ratchets
354005  Set of 3 (354000, 354002, 354004)
354010  Same as Large Satinsky Clamp (354000) except with original criss-cross serrated jaw

DEBAKEY TANGENTIAL OCCLUSION CLAMPS
Since most of the double-angle clamps now available are considered too shallow in the jaw section due to short distal tip section, this deep-jaw selection of AtrauGrip® clamps was designed. The set consists of 5 instruments varying in length and jaw size. All have unusually long distal sections adding to their value as partial tangential occlusion clamps. Dull, non-glare finished stainless steel.

353660  Size No. 1, 7 3/4" (19.5 cm) length, AtrauGrip® jaw, 1 3/8" (3.5 cm), 1 x 9 ratchets
353662  Size No. 2, 10 1/8" (25.7 cm) length, AtrauGrip® jaw, 1 7/8" (4.8 cm), 1 x 11 ratchets
353664  Size No. 3, 10 1/2" (26.6 cm) length, AtrauGrip® jaw, 2 1/8" (5.5 cm), 1 x 11 ratchets

(additional patterns continued on next page)
DEBAKEY TANGENTIAL OCCLUSION CLAMPS

(continued)

Since most of the double-angle clamps now available are considered too shallow in the jaw section due to short distal tip section, this deep-jaw selection of Atraugrip® clamps was designed. The set consists of 5 instruments varying in length and jaw size. All have unusually long distal sections adding to their value as partial tangential occlusion clamps. Dull, non-glare finished stainless steel.

353666 Size No. 4, 10 1/2” (26.6 cm) length,
Atraugrip® jaw, 2 3/8” (6 cm), 1 x 11 ratchets
353668 Size No. 5, 10 1/8” (25.7 cm) length,
Atraugrip® jaw, 3 1/8” (8 cm), 1 x 11 ratchets
353670 Complete set of 5 clamps

DEBAKEY MULTIPURPOSE ANGLED CLAMPS

After considerable use and experimentation with a wide variety of standard pattern clamps, this assortment of matched design DeBakey clamps has been assembled. They are of various lengths with curved shafts. The Atraugrip® jaws are angulated at 60° or 90°. In addition to their function as aortic clamps they are available for use as bronchus and gastric clamps in general surgery.

353680 No. 1, 60° angle, 9 1/2” (23.5 cm) length
Atraugrip® jaw, 1 1/4" (4 cm), 1 x 9 ratchets
353682 No. 2, 60° angle, 8 1/8” (20.6 cm) length
Atraugrip® jaw, 2” (5 cm), 1 x 9 ratchets
353684 No. 3, 60° angle, 9 3/8” (23.8 cm) length
Atraugrip® jaw, 2 11/16” (6.5 cm), 1 x 9 ratchets
353686 No. 4, 60° angle, 11 3/4” (29.8 cm),
Atraugrip® jaw, 3 11/16” (10 cm), 1 x 11 ratchets
353688 Complete set of four 60° clamps,
styless 1, 2, 3 and 4

(additional patterns continued on next page)
After considerable use and experimentation with a wide variety of standard pattern clamps, this assortment of matched design DeBakey clamps has been assembled. They are of various lengths with curved shafts. The AtrauGrip® jaws are angulated at 60° or 90°. In addition to their function as aortic clamps they are available for use as bronchus and gastric clamps in general surgery.

- **353690** No. 1, 90° angle, 9 1/2" (24.1 cm), AtrauGrip® jaw, 1 3/4" (4 cm)
- **353692** No. 2, 90° angle, 7 1/4" (18.4 cm), AtrauGrip® jaw, 2" (5 cm)
- **353694** No. 3, 90° angle, 9" (22.8 cm), AtrauGrip® jaw, 2 1/2" (6.5 cm)
- **353696** No. 4, 90° angle, 11" (28 cm), AtrauGrip® jaw, 4" (10 cm)
- **353698** Complete set of four 90° clamps, styles 1, 2, 3 and 4
SADE COARCTATION CLAMP

353592 For Aortoplasty procedures for coarctation, 9 3/8” (23.8 cm) overall length, AtrauGrip® jaw, 3 3/4” (7.6 cm)

DEBAKEY CURVED CLAMPS

These matched instruments are useful in a wide variety of situations but were originally designed to temporarily occlude the iliac artery just distal to the aorta in resection of aneurysms of the abdominal aorta involving the bifurcation. Jaws are AtrauGrip® design.

353630 Acutely curved, 9 3/4” (24.8 cm) long, AtrauGrip® jaw, 2 3/8” (6 cm), spring handle, 1 x 11 ratchets
353631 Medium curved, Bahnson type, 10 1/8” (25.7 cm), AtrauGrip® jaw, 2 9/16” (6.5 cm), spring handle, 1 x 9 ratchets
353632 Slight curve, Bahnson type, 10 1/4” (26 cm), AtrauGrip® jaw, 3” (7.5 cm), spring handle, 1 x 9 ratchets
353635 Extra large, acutely curved, 10 1/8” (25.7 cm), AtrauGrip® jaw, 2 1/2” (6.5 cm), 1 x 11 ratchets
CRAFOORD COARCTATION VASCULAR CLAMPS

354500 9 5/8" (24.4 cm) long, slightly curved, AtrauGrip® jaw, 2 3/4" (7 cm), 1 x 9 ratchets
354501 9 1/4" (23.4 cm) long, slightly curved, with original, longitudinal jaws.

CRAFOORD AURICLE CLAMP

354510 Acute curve, AtrauGrip® jaws, 2 3/4" (7 cm) at (B), overall length 9 1/2" (24.1 cm)

DEBAKEY AORTIC ANEURYSM CLAMPS

AtrauGrip® jaws. For occlusion of the neck of sacciform aneurysms of the aorta in tangential excision of such aneurysms and subsequent aortorrhaphy, Also for temporary occlusion of the aorta in resection of fusiform aneurysms of the aorta and restoration of continuity by aortic grafts.

353600 10 3/8" (26.3 cm) length, AtrauGrip® jaw, 3" (7.5 cm), 1 x 9 ratchets
353602 10 7/8" (27.6 cm) length, AtrauGrip® jaw, 3 3/8" (8.5 cm), 1 x 9 ratchets

(additional patterns continued on next page)
DEBAKEY AORTIC ANEURYSM CLAMPS (continued)

AtrauGrip® jaws. For occlusion of the neck of sacciform aneurysms of the aorta in tangential excision of such aneurysms and subsequent aortorraphy. Also for temporary occlusion of the aorta in resection of fusiform aneurysms of the aorta and restoration of continuity by aortic grafts.

- 353605  12 1/2" (31.8 cm) length, AtrauGrip® jaw, 4" (10 cm), 1 x 11 ratchets
- 353607  13 1/4" (33.6 cm) length, AtrauGrip® jaw, 4 3/4" (12 cm), 1 x 11 ratchets

DEBAKEY FULL CURVED AORTIC ANEURYSM CLAMPS

AtrauGrip® jaws. More acutely curved in both jaw and handle sections than 353600 to 353607 aortic clamps. For occlusion of the neck of sacciform aneurysms of the aorta in tangential excision of such aneurysms and subsequent aortorraphy. Also for temporary occlusion of the aorta in resection of fusiform aneurysms of the aorta in resection and restoration of continuity by aortic grafts.

- 353625  9 1/2" (24.3 cm) length, AtrauGrip® jaw, 3 3/8" (8.5 cm)
- 353626  11" (27.9 cm) length, AtrauGrip® jaw, 3 1/8" (8 cm)
- 353627  12 1/4" (31.1 cm) length, AtrauGrip® jaw, 4 1/2" (11.5 cm)

DEBAKEY AORTIC ANEURYSM CLAMP

With curve on side of jaw. Used in instances where application of the standard curve on flat clamp is inconvenient.

- 353615  AtrauGrip® jaws, 4" (10 cm) long, overall length 12 5/8" (32.1 cm)
AORTIC VASCULAR CLAMPS

HOWARD-DEBAKEY AORTIC ANEURYSM CLAMPS
Reverse curve shafts.

353609  10 3/4" (27.3 cm) length, 1 x 2 Atraugrip® jaws,
        3 3/8" (8.5 cm), 1 x 9 ratchets
353610  12 3/4" (32.3 cm) length, 2 x 3 Atraugrip® jaws,
        4 1/8" (10.5 cm), 1 x 9 ratchets

DAVIS AORTA BREAK-AWAY CLAMP
Hinge can be separated into two parts and the jaw halves
applied around the aorta. Then it can be mated back together.
It has been found particularly useful in situations where large
aneurysms make application of a normal cross-clamp difficult.

354088  9 1/2" (24.1 cm) overall length, 2" (5 cm)
        between the Atraugrip® jaws

DAVIS AORTA ANEURYSM
DOUBLE ANGLED CLAMP

354089  10" (25.4 cm)

COOLEY AORTA CLAMP
For temporary occlusion of the abdominal and thoracic aorta
during resection and graft replacement. Original Cooley jaws.

356060  Jaw length 2" (5 cm), overall length 11" (27.9 cm)

ZANGER ABDOMINAL AORTA CLAMP
WITH ATRAUGRIP® JAWS

353595  8 1/2" (21.6 cm) length, acutely curved handle,
        1 x 9 ratchets

(additional patterns continued on next page)
ZANGER ABDOMINAL AORTA CLAMP
WITH ATRAUGRIP® JAWS (continued)

- 353596 9 3/4" (24.8 cm) length, acutely curved handle,
  1 x 9 ratchets
- 353597 12" (30.5 cm) length, acutely curved handle,
  1 x 9 ratchets

WYLIE ABDOMINAL AORTA CLAMP

- 353658 8 1/2" (21.6 cm) overall length, AtrauGrip® jaws

MORRIS ASCENDING AORTA CLAMPS

- 353617 8 1/8" (20.6 cm) long, AtrauGrip® jaw,
  2 1/2" (6.5 cm) from angle
- 353618 9 1/2" (24.3 cm) long, AtrauGrip® jaw,
  2 1/2" (6.5 cm) from angle
BEALL-MORRIS ASCENDING AORTA CLAMP

353619  8 7/8” (22.5 cm) long, AtrauGrip® jaws, 3 3/4” (9.5 cm) from angle

HUFNAGEL CLAMPS
For the ascending aorta. Used to occlude the thoracic aorta in operations on the aortic root and the aortic valve. The curvature of the clamp allows it to be used with the midline sternotomy and to rest out of the operative field. AtrauGrip® jaws.

353620  9 1/2” (24.1 cm) length, curved jaws 3 1/8” (8 cm)
353622  9 1/2” (24.1 cm) length, straight jaws 3 1/8” (8 cm)

BAHNSON AORTIC CLAMP
To occlude the aorta during a median sternotomy in the adult. Angle of handle puts it out of the way.

353623  9 1/8” (23.2 cm) overall length, AtrauGrip® jaws, 2 3/4” (7 cm)
CRAWFORD THORACO-ABDOMINAL ANEURYSM CLAMPS WITH ATRAUGRIP® JAWS

- **353641** Straight jaw 8” (20.3 cm), overall length 13 1/4” (33.6 cm)
- **353642** Curved jaw, angled handle, overall length 13” (33 cm)
- **353643** “S” curve, angled tip, overall length 14 1/4” (36.2 cm)

STONEY DEEP AORTIC CLAMPS WITH ATRAUGRIP® JAWS

Features severely angled handles to lie across the xyphoid portion of the sternum.

- **353672** 6 7/8” (17.4 cm) overall length, working length 5 1/2” (14 cm)
- **353674** 9” (22.9 cm) overall length, working length 7” (17.8 cm)

DEBAKEY AORTIC CLAMP

Jaws angled on flat and spoon shaped. This clamp with AtrauGrip® Jaws, may be used for both the abdominal aorta and the thoracic aorta for temporary occlusion during performance of resection and graft replacement. The specially angled jaw permits convenient application of the clamp in such a manner as to maintain the handles of the clamp away from the field of operation.

- **353650** Overall length 10 1/2” (26.7 cm), angled on flat and spoon shaped, 2 1/2” (6.5 cm) long, 1 x 11 ratchets
GRANT ABDOMINAL AORTIC ANEURYSM CLAMP “TEXAS TWISTER”
Unique design allows lateral cross clamping of aorta. On thin patients, the multi-angled handle can be conveniently placed over left wound margin. In the heavy or obese patient, handles can be tucked under abdominal wall. Wide, secure 2 x 3 AtrauGrip® jaws, 1 x 11 ratchets for gradual declamping and graft flushing.

353651  Overall length 10 1/2” (26.5 cm),
curved AtrauGrip® jaw 2 1/2” (6.5 cm)
353653  Overall length 9 1/4” (23.5 cm),
short AtrauGrip® jaw, 1 3/4” (4.5 cm)

LAMBERT ABDOMINAL AORTA CLAMP
An abdominal aorta cross clamp for aneurysmectomy and graft repair. Handles are angled upward to be out of the surgeons way.

353652  8 3/4” (22.2 cm) long, AtrauGrip® jaw, 
2 3/4” (7 cm), 1 x 11 ratchets
SCHUMAKER ANGULAR AORTIC CLAMPS

*AtrauGrip®* jaws are angled at 60°. These clamps are also used extensively in gastric surgery. Dull, non-glare finished stainless steel.

- **353860** Standard model, jaws 1 1/8” (5.5 cm) past angle, overall length 8 3/8” (21.3 cm)
- **353862** Standard model, jaws 2 3/4” (7 cm) past angle, overall length 8 3/4” (22.3 cm)
- **353865** Heavy model, jaws 3 15/16” (10 cm) past angle, jaw width 4mm, overall length 11 1/2” (29.2 cm)

STRELINGER RIGHT ANGLE CLAMP

- **353872** Large size, jaws 3” (7.6 cm) past angle, 90° angled *AtrauGrip®* jaws, overall length 9 1/2” (24.1 cm)

BAILEY AORTIC CLAMPS

These clamps designed for exclusion of a portion of the vessel, are of medium weight construction and have *AtrauGrip®* jaws. The shafts are made in three shapes: straight, curved or angled.

- **354077** Straight shafts, large size jaw, (A) length 2 1/2” (6.5 cm), (A) depth 1.1 cm, overall length 9 1/4” (23.5 cm)
- **354079** Curved shafts, extra small size jaw, (A) length 1 1/8” (3 cm), (A) depth 8mm, overall length 8” (20.3 cm)
- **354080** Curved shafts, small size jaw, (A) length 2” (5 cm), (A) depth 1.1 cm, overall length 8 1/2” (21.7 cm)

*(additional patterns continued on next page)*
BAILEY AORTIC CLAMPS (continued)
These clamps designed for exclusion of a portion of the vessel, are of medium weight construction and have AtrauGrip® jaws. The shafts are made in three shapes: straight, curved or angled.

354084 Angled shafts, extra small size jaw, (A) length 1 1/8" (3 cm), (A) depth 8 mm, overall length 8" (20.3 cm)
354085 Angled shafts, small size jaw, (A) length 1 3/4" (4.4 cm), (A) depth 1.1 cm, overall length 8" (20.3 cm)
354087 Angled shafts, large size jaw, (A) length 2 1/8" (5.4 cm), (A) depth 1.1 cm, overall length 9 3/4" (24.7 cm)

BECK TYPE AORTA CLAMPS
AtrauGrip® jaws, acutely angled at approximately 65°. Straight shafts. Made in three sizes.

354100 Jaws (A) length 1 1/4" (3 cm), (A) depth 8 mm, overall length 8" (20.3 cm)
354102 Jaws (A) length 1 3/4" (4.5 cm), (A) depth 10 mm, overall length 8 3/4" (22.2 cm)
354104 Jaws (A) length 2 5/8" (6.7 cm), (A) depth 10 mm, overall length 8 1/4" (21 cm)

SWAN ATRIAL CLAMP
Designed for use in surgery within the right atrium, as for an atrial septal defect. AtrauGrip® jaws.

354152 (A) length 2 3/4" (70 mm), (A) depth 9 mm, overall length 9" (23 cm)
O’NEILL DOUBLE CURVED CLAMP

This is a multipurpose instrument, actually a modification of the AtrauGrip® Satinsky. The jaw angles have been replaced by curves. Useful as a vena cava clamp and atrial appendage clamp, also for cross clamping or partially occluding vessels.

354165 (A) length 2 1/4" (57 mm), (A) depth 13/16" (21 mm), (B) 3 1/8" (80 mm), overall length 9 1/2" (24.1 cm)

GLOVER ATRIAL APPENDAGE CLAMP

AtrauGrip® jaws. Especially designed for holding the atrial appendage at any level without crushing.

354170 Overall length 9 1/2" (24.1 cm), jaw (A) length 1 11/16" (43 mm), (A) depth 1/4" (7 mm), (C) 1 1/8" (30 mm), (D) 1/2" (13 mm)

BERMAN CLAMP

This AtrauGrip® instrument is known as the all-purpose clamp. It has the same general dimensions as the standard Satinsky but jaws are angled to side, rather than on the flat. This allows for easier application in many positions inconvenient to standard clamps. Shafts are curved on both planes.

354305 Overall length 10 1/2" (26.7 cm), jaws (C) 1 1/2" (4 cm), (D) 1/2" (1.5 cm)

W.A. HOPKINS AORTIC OCCLUSION CLAMP

Narrow AtrauGrip® jaw, duck-bill, angled-to-side. Especially valuable as a cross clamp in aortic resections. Jaws angled approximately 45˚.

354300 Overall length, 10 1/2" (26.8 cm), jaw length 2" (5.1 cm) past angle
AORTIC VASCULAR CLAMPS

KAY AND LAMBERT-KAY
AORTIC ANASTOMOSIS CLAMPS
Three clamps designed primarily as side-biting clamps for ascending aorta to be used in lateral anastomosis in saphenous vein coronary artery by-pass procedures. Both clamps may also be applied for partial exclusion of other segments of aorta, large and small bowel. AtrauGrip® jaws.

KAY AORTIC ANASTOMOSIS CLAMP
353580 7 1/2" (19 cm) length, jaw 1 1/2" (4 cm), 1 x 9 ratchets

KAY-LAMBERT AORTIC ANASTOMOSIS CLAMP
353585 8" (20.3 cm) length, jaw 1 3/4" (4.4 cm), 1 x 9 ratchets

LAMBERT-KAY AORTIC ANASTOMOSIS CLAMP
353586 Large 8 1/4" (21 cm) length, jaw 2" (5 cm), 1 x 9 ratchets

MILLS CLAMP
353578 8 1/2" (21.5 cm), AtrauGrip® jaw

STRONG AORTA CLAMPS
Unique design provides uniform pressure across entire jaw surface.

353581 Straight shanks, 8" (20.3 cm) length, AtrauGrip® jaw, 1 5/8" (4.1 cm) wide, 7/8" (1.6 cm) deep, 1 x 9 ratchets
353583 Angled shanks, 8" (20.3 cm) length, AtrauGrip® jaw, 1 5/8" (4.1 cm) wide, 7/8" (1.6 cm) deep, 1 x 9 ratchets
LEMOLE-STRONG AORTA CLAMPS

353582  Straight shanks, 7 3/4" (19.6 cm) length, AtrauGrip® jaw, 1 3/4" (4.5 cm) wide, 7/8" (2.3 cm) deep, 1 x 9 ratchets
353584  Angled Shanks, 8" (20.3 cm) length, AtrauGrip® jaw, 1 3/4" (4.5 cm) wide, 7/8" (2.3 cm) deep, 1 x 9 ratchets

GAZZANIGA AORTA CLAMP
More severely angled handle than Lambert-Kay clamp, to lay flatter. Designed for partial occlusion of ascending aorta AtrauGrip® jaws.

353616  8 3/4" (22.2 cm)

CLIPS-VENA CAVA, TEFILON® CLIPS
For partial occlusion of the Vena Cava.

Moretz type smooth bars:
353166  Small, 3 mm gap space
353167  Medium, 3.5 mm gap space
353168  Large, 4 mm gap space

Adams-Deweese type:
353163  Four 3 mm channels, 1 3/8" (3.5 cm) length
Compressors, Aortic and Coronary

CONN AORTIC COMPRESSOR
A simple device used to gain initial control of the proximal circulation in suspected or known rupture of abdominal aortic aneurysms. Designed to allow surgeon additional time to dissect and cross clamp aorta.

351715  Overall length 15 7/8” (40.3 cm),
compressor head 3 1/8” (8 cm) wide

WECK AORTIC OCCLUDER

351716  10” (25.4 cm), jaw 3 1/8” (8 cm)

RIAHI CORONARY COMPRESSOR
A simple device used to control coronary bleeding without cross clamping the aorta during the distal anastomosis phase of coronary by-pass grafting. Posterior portion of the loop is serrated to prevent slipping. Malleable stainless steel loop is open for use with either saphenous vein graft or I.M.A.

351730  Length 9 5/16” (23.6 cm),
loop 1 9/16” (4 cm) x 1 3/8” (3.5 cm)

Ratchet Lock

PILLING RATCHET LOCK

354320  Slips on the ratchets of most standard size cardiac clamps. Prevents ratchet from accidently becoming disengaged and from springing open.
AORTIC VASCULAR CLAMPS

Titanium Aorta Vascular Clamps

GLOVER TITANIUM VASCULAR CLAMP

359153  Curved Cooley jaws, 10 1/2” (26.5 cm)

COOLEY TITANIUM VASCULAR CLAMPS

359197  Straight Cooley jaws for iliac artery, 8 1/2” (21.5 cm)
359198  Straight Cooley jaws for iliac artery, 10 3/8” (25 cm)

DEBAKEY TITANIUM VASCULAR CLAMPS

359159  70˚ angled DeBakey jaw, 10 1/2” (26.5 cm)
359195  45˚ angled DeBakey jaw, 10 1/2” (26 cm)
359181  60˚ angled DeBakey jaw, 12” (30.5 cm)
359182  60˚ angled DeBakey jaw, 10” (25 cm)

(additional patterns continued on next page)
Titanium Aorta Vascular Clamps
(continued)

359183 60° angled DeBakey jaw, 9 1/4" (23.5 cm)
359184 60° angled DeBakey jaw, 8 1/4" (21 cm)
359185 Occlusion clamp with 50 mm operational DeBakey jaw length, 10 3/4" (27 cm)
359186 Occlusion clamp with 40 mm operational DeBakey jaw length, 10" (25 cm)
359187 Occlusion clamp with 30 mm operational DeBakey jaw length, 10" (25 cm)
359188 Occlusion clamp with 25 mm operational DeBakey jaw length, 10" (25 cm)
359189 Occlusion clamp with 20 mm operational DeBakey jaw length, 7 3/4" (19 cm)
359161 Curved DeBakey jaws, 11" (28 cm)
359162 Curved DeBakey jaws, 12" (30 cm)

(additional patterns continued on next page)
AORTIC VASCULAR CLAMPS

Titanium Aorta Vascular Clamps
(continued)

DEBakey Titanium Vascular Clamps
(continued)

359163 Curved DeBakey jaws, 12 5/8” (32 cm)
359164 Curved DeBakey jaws, 13 1/2” (34 cm)
359165 Curved DeBakey jaws, 10 1/2” (26.5 cm)
359166 Curved DeBakey jaws, 10 3/8” (26 cm)
359167 45° angled DeBakey jaws, 7 1/8” (18 cm)
Titanium Aorta Vascular Clamps
*(continued)*

**HUFNAGEL TITANIUM VASCULAR DEBAKEY**

359160 Curved DeBakey jaws, 9” (23 cm)

**LAMBERT-KAY TITANIUM VASCULAR CLAMP**

359154 Curved DeBakey jaws, 8” (20 cm)

**KAY TITANIUM VASCULAR CLAMP**

359152 Curved DeBakey jaws, 8” (20 cm)
Titanium Aorta Vascular Clamps  
(continued)

SATINSKY TITANIUM VASCULAR CLAMPS

359191  Vena Cava clamp with 30 mm operational DeBakey jaw length, 10" (25 cm)
359192  Vena Cava clamp with 25 mm operational DeBakey jaw length, 10" (25 cm)
359193  Vena Cava clamp with 20 mm operational DeBakey jaw length, 10" (25 cm)

DIEFENBACH BULLDOG CLAMP

353000  Curved serrated 10 x 2 mm jaws, 1 1/2" (3.8 cm)

JOHNS HOPKINS (BLALOCK) BULLDOG CLAMPS

353001  Straight, 1 1/2" (3.8 cm)
353002  Straight, 2" (5 cm)
353003  Straight, 2 1/4" (5.7 cm)
353004  Straight, 2 1/2" (6.3 cm)
353005  Straight, 2 3/4" (7 cm)
353006  Straight, 3" (7.6 cm)
353008  Straight, 3 1/2" (9 cm)
353011  Curved, 1 1/2" (3.8 cm)
353012  Curved, 2" (5 cm)
353013  Curved, 2 1/4" (5.7 cm)
353014  Curved, 2 1/2" (6.3 cm)
353015  Curved, 2 3/4" (7 cm)
353016  Curved, 3" (7.6 cm)
353018  Curved, 3 1/2" (9 cm)
LUNG Clamps

**DEBAKEY LUNG FORCEPS**
*AtrouGrip®* distal section on specially shaped fenestrated jaws provide a soft but secure hold with minimal tissue damage. Distal edge of jaw is 25 mm wide.

- 342655 9" (22.9 cm)

**COLLIN LUNG FORCEPS**
Light, screw lock design. Teeth across entire distal edge.

- 342660 8" (20 cm), jaw width 1/2" (12 mm)
- 342662 8" (20 cm), jaw width 1" (2.5 cm)
- 342664 9 1/4" (23.5 cm), jaw width 1" (2.5 cm)

**DUVAL LUNG FORCEPS**
Light, screw lock design. Serrated jaws.

- 342670 8" (20.3 cm), jaw width 1" (2.5 cm)
- 342672 9 1/8" (23.1 cm), jaw width 1" (2.5 cm)

**LOVELACE LUNG GRASPING FORCEPS**
Angular.

- 342675 8" (20.3 cm), jaw width 1" (2.5 cm)
Bronchus Clamps

**LEES RIGHT ANGLE CLAMP**
For use as bronchus clamp as well as general purpose vascular clamp. *AtrauGrip*® jaw is 4 cm long beyond angle.

342800  Forceps length 8” (20.3 cm) to angle

**LEES BRONCHUS CLAMP**
With *AtrauGrip*® jaws. Jaw is 4 cm long beyond angle.

342802  Forceps 9 1/4” (23.5 cm) long

**BRONCHUS CLAMP**
25° angular *AtrauGrip*® jaws are 5.5 cm long beyond angle.

342804  9” (22.9 cm) length

**ATLEE BRONCHUS CLAMP**
Designed specifically for pneumonectomies, this clamp holds its grip when bronchus is severed at the edge of the clamp. Placement of *AtrauGrip*® serrations on edge of convex curved jaws leaves an area 2 to 3 mm wide for accurate placement of sutures and provices a gently curved stump, eliminating “ears.”

342808  9 3/8” (23.8 cm) length to angle,
         1 5/8” (4.2 cm) jaw length from angle

**SAROT BRONCHUS CLAMPS**
Teeth ensure a non-slipping hold on bronchus. Clamps are made in left and right models so that spiked blade will never be passed beneath the bronchus, thus avoiding trauma. Adult size 9 1/4” (23.4 cm) length to angle, 3.3 cm jaw length.

342822  Right
*(additional patterns continued on next page)*
Bronchus Clamps (continued)

SAROT BRONCHUS CLAMPS (continued)
Teeth ensure a non-slipping hold on bronchus. Clamps are made in left and right models so that spiked blade will never be passed beneath the bronchus, thus avoiding trauma. Adult size 9 1/4” (23.4 cm) length to angle, 3.3 cm jaw length.

342823  Left

Lung and Bronchus Clamps

WILLAUER-ALLIS TISSUE FORCEPS
Extra long, springy, Allis type forceps with 5 x 6 teeth. Dull, non-glare finish stainless steel.

342720  10” (25.4 cm)
342721  11 1/4” (28.5 cm)

BABCOCK TISSUE FORCEPS

183010  6 1/4” (15.8 cm)
183020  7 1/4” (18.5 cm)
342725  9 1/4” (23.4 cm)
342726  9 1/2” (24 cm)

REVUELT-GARCIA CURVED ALLIS CLAMPS

351743  9 7/8” (25 cm)
351744  11” (27.9 cm)
LUNG, BRONCHUS CLAMPS

Titanium Bronchus Clamps

LEES TITANIUM BRONCHUS CLAMP
For vessels and bronchus, 90° angled DeBakey jaws.

359199 8 3/4" (22 cm)

LEES TITANIUM BRONCHUS CLAMP
Angled DeBakey jaws.

359200 9 1/4" (23.4 cm)

TUBING CLAMPS AND HOLDERS

CHEST DRAIN CLAMP
Pointed Rochester-Pean type hemostat with three spikes in the jaw for tunneling, grasping and pulling chest drains.

343590 7 7/8" (20 cm) length

MORSE TOWEL CLIP TUBING HOLDERS
For holding extracorporeal tubing to drapes giving positive fixation. The serrated inner surface of the tube holding ring closes down on the tubing but does not collapse or reduce the lumen. Sizes listed are for outside diameter of extracorporeal tubing.

351350 For 1/16” and 1/8” tubing
351351 For 3/16” and 1/4” tubing
351352 For 5/16” and 3/8” tubing
351353 For 7/16” and 1/2” tubing
351354 For 9/16” and 5/8” tubing
351355 For 11/16” and 3/4” tubing
Right Angle Clamps (continued)

**EFFLER-GROVES INSTRUMENTS**
Effler-Groves Forceps for dissection. Lightweight.

- **355805** 11" (28 cm), curved jaw

**LAHEY DISSECTING FORCEPS**
Longitudinal serrations, 2.5 mm tip.

- **496105** 7 1/2" (19 mm), 22 mm jaw
- **496106** 9" (22.8 mm), 32 mm jaw

**WESTPHAL FORCEPS**
Longitudinal serrations, narrow tip. 80 degree angled jaw.

- **496112** 8" (20.3 cm)

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**THORACIC CLAMPS**

**Hemostatic Clamps**

**SAWTELL HEMOSTATIC FORCEPS**
Full curved, heavy tips.

- **342583** Cross serrations, 7 1/4" (18.4 cm)

**PILLING THORACIC ARTERY FORCEPS**
Slim, slightly curved 1 3/4" (4.4 cm) jaws have very light criss-cross serrations making this an excellent instrument for handling suture material as well as delicate tissue.

- **342585** 9 1/4" (23.7 cm)
Hemostatic Clamps (continued)

**BENGOLEA ARTERY FORCEPS**
Lightweight, with narrow criss-cross serrated jaws.

- **342587** 8 1/2” (21.6 cm), 1 3/4” (4.4 cm) jaw, slightly curved

**VANDERBILT VESSEL FORCEPS**
This hemostatic type forcep is particularly useful in cardiovascular and thoracic surgery but has been used extensively in general surgery as well. The elongated handles afford access to a number of surgical sites. Jaws are of a standard cross-serration design.

- **342590** 8 1/2” (21.5 cm)

**LEJEUNE THORACIC FORCEPS**
Long, lightweight construction with cross-serrated jaws. Very fine tips.

- **342594** 9 1/2” (24.1 cm), curved jaws

Dissection Clamps

**SEMB DISSECTING FORCEPS**
For dissecting and breaking adhesions.

- **342710** 10 1/4” (26 cm), slight curve
Titanium Thoracic Clamps

HARTMANN TITANIUM HEMOSTATIC FORCEPS
- 359285 Straight, serrated jaws, 3 1/2" (10 cm)
- 359286 Curved, serrated jaws, 3 1/2" (10 cm)

BENGOLEA TITANIUM HEMOSTATIC FORCEPS
- 359287 Straight, cross serrated jaws, 7 1/8" (18 cm)
- 359288 Straight, cross serrated jaws, 9 1/8" (23 cm)
- 359289 Curved, cross serrated jaws, 7 1/8" (18 cm)
- 359290 Curved, cross serrated jaws, 9 1/8" (23 cm)

HALSTEAD TITANIUM HEMOSTATIC FORCEPS
- 359295 Straight, serrated jaws, 4 3/4" (12.5 cm)
- 359296 Curved, serrated jaws, 4 3/4" (12.5 cm)
- 359297 Straight, 1 x 2 teeth, 4 3/4" (12.5 cm)
- 359298 Curved, 1 x 2 teeth, 4 3/4" (12.5 cm)
- 359299 Delicate curved, serrated jaw, 4 3/4" (12.5 cm)
- 359300 Delicate curved, 1 x 2 teeth, 4 3/4" (12.5 cm)

LERICHE TITANIUM HEMOSTATIC FORCEPS
- 359301 Straight, serrated jaw, 6" (15 cm)
- 359302 Curved, serrated jaw, 6" (15 cm)
- 359303 Straight, 1 x 2 teeth, 6" (15 cm)
- 359304 Curved, 1 x 2 teeth, 6" (15 cm)
Titanium Thoracic Clamps (continued)

CRILE TITANIUM HEMOSTATIC FORCEPS
- 359305 Straight, serrated jaw, 5 1/2" (14 cm)
- 359306 Straight, serrated jaw, 6 1/4" (16 cm)
- 359307 Curved, serrated jaw, 5 1/2" (14 cm)
- 359308 Curved, serrated jaw, 6 1/4" (16 cm)
- 359309 Straight, 1 x 2 teeth, 5 1/2" (14 cm)
- 359310 Straight, 1 x 2 teeth, 6 1/4" (16 cm)
- 359311 Curved, 1 x 2 teeth, 5 1/2" (14 cm)
- 359312 Curved, 1 x 2 teeth, 6 1/4" (16 cm)

O’SHAUGHNESSY TITANIUM CLAMPING FORCEPS
- 359313 Strong curve, serrated jaw, 8 1/2" (21.5 cm)
- 359315 Strong curve, serrated jaw, 7 1/4" (18 cm)
- 359317 Strong curve, serrated jaw, 8" (20 cm)
- 359319 Strong curve, serrated jaw, 8 3/4" (22 cm)
- 359321 Strong curve, serrated jaw, 8 3/4" (22 cm)
- 359323 Strong curve, serrated jaw, 11" (28 cm)
HEISS TITANIUM CLAMPING FORCEPS

359314  Half curve, serrated jaw, 8 1/4" (21 cm)

CRAFOORD TITANIUM CLAMPING FORCEPS

359325  Curved, serrated jaws, 9 1/2" (24 cm)

DOYEN TITANIUM CLAMPING FORCEPS

359326  Straight, longitudinal serrated jaw, 9 1/2" (24 cm)
359327  Curved, longitudinal serrated jaw, 9 1/2" (24 cm)
LUNG, BRONCHUS CLAMPS

Titanium Bronchus Clamps

LEES TITANIUM BRONCHUS CLAMP
For vessels and bronchus, 90° angled DeBakey jaws.

359199  8 3/4" (22 cm)

LEES TITANIUM BRONCHUS CLAMP
Angled DeBakey jaws.

359200  9 1/4" (23.4 cm)

TUBING CLAMPS AND HOLDERS

CHEST DRAIN CLAMP
Pointed Rochester-Pean type hemostat with three spikes in the jaw for tunneling, grasping and pulling chest drains.

343590  7 7/8" (20 cm) length

MORSE TOWEL CLIP TUBING HOLDERS
For holding extracorporeal tubing to drapes giving positive fixation. The serrated inner surface of the tube holding ring closes down on the tubing but does not collapse or reduce the lumen. Sizes listed are for outside diameter of extracorporeal tubing.

351350  For 1/16" and 1/8" tubing
351351  For 3/16" and 1/4" tubing
351352  For 5/16" and 3/8" tubing
351353  For 7/16" and 1/2" tubing
351354  For 9/16" and 5/8" tubing
351355  For 11/16" and 3/4" tubing
NICHOLS TUBING HOLDER
Specially designed to hold and support the weight of the various diameters of tubing used by the pump-oxygenator, keeping them “in-line.”

351370  Metal plate 4 1/2" x 7 1/4" (11.4 x 18.4 cm) is perforated so it may be held in place with towel clamps

PRESBYTERIAN HOSPITAL TUBE OCCLUDING CLAMP
Durable construction with smooth jaws for clamping off tubing without damage.

351358  6 1/2" (16.7 cm) length

VORSE TUBING OCCLUDING CLAMP
Heavy construction with jaws designed for positive occlusion of Silastic, Tygon and similar thick walled tubings.

351373  6" (15.2 cm)
For tubing 1/4" I.D. (3/8" O.D.)
351374  7 3/8" (18.7 cm)
For tubing 3/8" I.D. (5/8" O.D.)
351375  8" (20.3 cm)
For tubing 1/2" I.D. (7/8" O.D.)

The familiar Vorse type tube-occluding clamp supplied with a safety guard to prevent the box lock from puncturing the tubing. Heavy construction with jaw designed for positive non-slip occlusion of Silastic, Tygon and similar thick walled tubing.

351376  6" (15 cm)
For tubing 3/8" O.D.
351377  7 1/2" (19 cm)
For tubing 5/8" O.D.
351378  8" (20.3 cm)
For tubing 7/8" O.D.

GREEN SUCTION TUBE HOLDING CLAMP
Clip portion designed to hold and support weight of suction tubing and at the same time provide an aperture to hold suction tube when not in use. Forceps jaws may be clipped to drape at most convenient location.

351372  6 1/2" (16 cm)
GUNNAR HEY ROLLER FORCEPS

351390  For “milking” pump tubing
1/2” (12 mm) diameter 7 1/4” (18.7 cm)

LORE TUBE HOLDING FORCEPS
Full serrations, serrated jaws grasp drape without puncturing.
Fitting on shanks holds tubing securely and without drag
when not in use. Suction tube may be stored in protective
metal sleeve.

536275  6 1/4” (15.8 cm)

VENA CAVA COOLEY
Occludes the Vena Cava and allows blood flow through
the cannula or catheter.

351645  Child size, 24 Fr., 6 1/2” (16.2 cm)
351646  Child size, 26 Fr., 6 1/2” (16.5 cm)
351650  Adult size, 28 Fr., 8” (20.3 cm)
351651  Adult size, 30 Fr., 7 3/4” (19.6 cm)
351652  Adult size, 32 Fr., 7 3/4” (19.6 cm)
351654  Adult size, 34 Fr., 8” (20.3 cm)
351653  Adult size, 36 Fr., 7 7/8” (20 cm)

COOLEY AORTIC CANNULA CLAMP

351655  7” (17.7 cm), 24 Fr.
VASCULAR CLAMPS, PEDIATRIC

Many Pilling vascular clamps feature the patented AtrauGrip® non-traumatic jaws and Life-Lok® mortise box lock.

Ratchets on Pilling vascular clamps provide the precision control needed for arterial clamping. Ratchets are designed with steps (1 x 7, 1 x 9, 1 x 11) to furnish the specific amounts of desired pressure. Jaws are precision set by hand.

Jaws on Pilling clamps are set with precision. Coordination of ratchet length and jaw setting provide the precise amount of required compression.

Many styles of Pilling AtrauGrip® clamps are available with spring handles. With this construction feature, a portion of the shaft is flattened or otherwise altered and specially tempered to eliminate rigidity and provide a softness proportionate with the overall size and purpose of the instrument. The intention is to minimize trauma to vessels with the soft spring handles but hold securely with AtrauGrip® jaws.

History and Achievements

Since 1814, well before the Civil War, Pilling has designed and manufactured high quality surgical instruments. As one of the oldest surgical instrument companies in the world, we have continued our tradition of craftsmanship and innovation which has established us as the leaders in our field. As a result of these efforts, a very large proportion of the cardiovascular surgical instruments being used in surgery today have been developed by Pilling. Pilling was the first surgical instrument company to receive a United States and Worldwide patent for an innovation in the design of a non-traumatic jaw serration, the AtrauGrip® jaw.

Why Pilling

Every cardiovascular instrument that we produce is set and checked by hand, then checked again to assure that it has the “feel” so essential to the surgeon. Pilling has gained international acclaim for providing the ultimate in surgical tools. Working closely with the world’s top specialists, we continue to customize instrumentation to meet their exacting individual requirements. We have designed over 500 vascular clamps.

Most Pilling clamps are covered by Patent No. 2,668,538 and other patents.

AtrauGrip® and Life-Lok® are registered trademarks of Pilling TFX Surgical Specialties.
A single row of finely serrated teeth opposing a double row, precisely crafted are designed to deliver the most minimal trauma to tissue.

Uniformly rounded. Virtually eliminates the potential for suture snag.

Prevents inadvertent pinching of tissue by providing an expansion area for the tissue.

Provide the finite control necessary in cardiovascular thoracic surgery. They are designed to furnish the precise increments of pressure desired. Furnished in 1 x 7, 1 x 9, 1 x 11 steps.

Tempered to eliminate rigidity while providing proportionate softness.

Comfortably sized.

Jaws on Pilling clamps are set with precision. Coordination of ratchet length and jaw setting provide the precise amount of required compression.
Types of Jaws Used in Pilling Cardiovascular Clamps

A single row of serrated teeth opposing a double row. The most commonly used jaw design, (and most imitated). Proven through many years’ use at hospitals throughout the world, on adult peripheral vascular, aortic occlusion and partial occlusion clamps.

A small version of the original AtrauGrip® used on most bulldogs, vascular tissue forceps and numerous pediatric clamps.

The smallest size AtrauGrip® being used on many new pediatric and adult peripheral vascular clamps, bulldogs and forceps.

Double row of serrated teeth opposing a triple row. This modified version of the AtrauGrip® serration, having a broader clamping surface, is used on large clamps for aortic cross clamping and on diseased and calcified arteries. Clamps with the 2 x 3 serration are also used frequently in general surgery as bowel clamps.

Two opposing rows of fine atraumatic teeth. Originally designed especially for surgery on infants and children the jaws grasp vessels firmly with less danger of crushing. Also available on a limited group of adult vascular clamps.

Single row of opposing teeth. The narrowest available vascular clamp. Designed for neonatal vascular surgery, these clamps have also proven of value in adult surgery of the carotid femoral and popliteal arteries and for creating A.V. Fistulas.

<table>
<thead>
<tr>
<th>Relative Size</th>
<th>Enlargement</th>
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<tbody>
<tr>
<td>AtrauGrip®</td>
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<tr>
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<tr>
<td>Extra Fine AtrauGrip®</td>
<td></td>
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<tr>
<td>AtrauGrip® 2 x 3</td>
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<tr>
<td>Cooley</td>
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<tr>
<td>Pediatric, 1 mm</td>
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</tbody>
</table>
Vascular Clamps, Pediatric 1 mm Jaw

1 MM PEDIATRIC VASCULAR CLAMPS
For precise, close-quarters control with minimal obstruction. See description on following page. Available in 2 sizes.

Reinforced spine of clamping blades helps to reduce feathering.

All instruments and components are shown in actual sizes. Blade-length for any shape is measured from the tip (t) to the apex of that angle (a) formed by the base of the blade and the front shoulder of the hinge. For handle-length, measure from this same apex to the back of either ring (r). Blades are scribed from the tips, in 5 mm graduations.

Life-Lok® is a registered trademark of Pilling TFX Surgical Specialties.
Vascular Clamps, Pediatric 1 mm Jaw (continued)

PILLING SHORT 1 MM PEDIATRIC CLAMPS

All drawings on this page are shown actual size. To determine the overall length of our vascular clamps, measure the handle type and the jaw type and add measurements together to obtain the overall size. Blades are scribed from the tips in .5 cm graduations.

357100  Jaw 1, straight handles
357102  Jaw 2, straight handles
357104  Jaw 3, straight handles
357106  Jaw 4, straight handles
357110  Jaw 5, straight handles
357112  Jaw 6, straight handles
357116  Jaw 7, straight handles
357120  Jaw 8, straight handles
357122  Jaw 9, straight handles
357125  Jaw 1, curved handles
357127  Jaw 2, curved handles
357129  Jaw 3, curved handles
357131  Jaw 4, curved handles
357135  Jaw 5, curved handles
357137  Jaw 6, curved handles
357141  Jaw 7, curved handles

(additional patterns continued on next page)

1/1 SCALE

<table>
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<tr>
<th>Jaw Type</th>
<th>Handle Type</th>
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<td>357100</td>
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<td>Jaw 2, straight handles</td>
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<td>Jaw 9, straight handles</td>
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<tr>
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<td>Jaw 1, curved handles</td>
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<td>Jaw 2, curved handles</td>
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<tr>
<td>357141</td>
<td>Jaw 7, curved handles</td>
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(additional patterns continued on next page)
Vascular Clamps, Pediatric 1 mm Jaw (continued)

PILLING SHORT 1 MM
PEDIATRIC CLAMPS (continued)
All drawings on this page are shown actual size. To determine the overall length of our vascular clamps, measure the handle type and the jaw type and add measurements together to obtain the overall size. Blades are scribed from the tips in .5 cm graduations.

- 357145 Jaw 8, curved handles
- 357147 Jaw 9, curved handles
- 357154 Jaw 3, angled handles
- 357160 Jaw 5, angled handles
- 357162 Jaw 6, angled handles
- 357166 Jaw 7, angled handles
- 357170 Jaw 8, angled handles
- 357172 Jaw 9, angled handles

1/1 SCALE
Vascular Clamps, Pediatric 1 mm Jaw (continued)

PILLING LONG 1 MM PEDIATRIC CLAMPS
All drawings on this page are shown actual size. To determine the overall length of our vascular clamps, measure the handle type and the jaw type and add measurements together to obtain the overall size. Blades are scribed from the tips in 5 cm graduations.

- 357200 Jaw 1, straight handles
- 357202 Jaw 2, straight handles
- 357204 Jaw 3, straight handles
- 357212 Jaw 6, straight handles
- 357216 Jaw 7, straight handles
- 357220 Jaw 8, straight handles
- 357222 Jaw 9, straight handles
- 357225 Jaw 1, curved handles
- 357227 Jaw 2, curved handles
- 357229 Jaw 3, curved handles
- 357231 Jaw 4, curved handles
- 357237 Jaw 6, curved handles
- 357241 Jaw 7, curved handles
- 357245 Jaw 8, curved handles
- 357247 Jaw 9, curved handles
- 357250 Jaw 1, angled handles
- 357252 Jaw 2, angled handles
- 357254 Jaw 3, angled handles
- 357256 Jaw 4, angled handles
- 357260 Jaw 5, angled handles
- 357262 Jaw 6, angled handles
- 357270 Jaw 8, angled handles
- 357272 Jaw 9, angled handles

1/1 SCALE
CASTANEDA CLAMPS
Versatile, multipurpose clamps designed for neonatal use.

357191  6" (15.2 cm) long, slightly curved handles, long small jaw, 1 mm thick, 9/16" (1.5 cm), spring handle, 1 x 6 ratchets
357192  6" (15.2 cm) long, slightly curved handles, long large jaw, 1 mm thick, 3/4" (2.0 cm), spring handle, 1 x 6 ratchets
Vascular Clamps, Extra Fine
*AtrauGrip*® 1.5 mm Jaw

EXTRA FINE *ATRAUGRIP*® VESSEL CLAMPS FOR PEDIATRIC CARDIOVASCULAR AND ADULT PERIPHERAL VASCULAR SURGERY

Pilling, a leader and pioneer in cardiovascular surgical instruments, produces an exclusive series of pediatric cardiovascular and adult peripheral vascular clamps. This series of clamps combine a narrow 1.5 mm jaw width, with *AtrauGrip*® DeBakey teeth. The line also offers a wide range of multiple occlusion and partial occlusion clamps. These were designed for use in pediatric cardiovascular surgery including neonatal, coarctation, and patent ductus procedures. They also have many applications in adult peripheral vascular surgery including carotid, renovascular, A-V Fistula, and distal bypass surgery.

- *AtrauGrip*® jaw minimizes trauma and provides secure grip
- Extra Fine 1.5 mm jaw width allows more room for precise suturing, and more even compression over the entire jaw length
- Jaw tips touch distally first to prevent tissue slipping out of jaws
- *Life-Lok*® eliminates box lock cracking
- Lightweight spring design allows application of correct jaw pressure
- 1 x 6 ratchets allow for finite control and precise amount of pressure
- Large diameter finger rings for surgeon comfort
- Satin finish to reduce glare and surgeon eye strain

**HOW TO MEASURE PILLING VASCULAR CLAMPS**

| Comparison between standard 2.5 mm DeBakey toothed clamps and the 1.5 mm Extra Fine series | Extra Fine AtrauGrip® Jaw, 1.5 mm wide |

**Vascular Clamps, Extra Fine**

**AtrauGrip® 1.5 mm Jaw**
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DEBAKEY MULTIPURPOSE VASCULAR CLAMPS

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Angle</th>
<th>Length</th>
<th>Jaw Length</th>
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<tr>
<td>354434</td>
<td>30°</td>
<td>5 3/4&quot;</td>
<td>14.6 cm</td>
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<tr>
<td>354436</td>
<td>45°</td>
<td>5 1/2&quot;</td>
<td>13.9 cm</td>
</tr>
<tr>
<td>354438</td>
<td>60°</td>
<td>5 3/8&quot;</td>
<td>13.6 cm</td>
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(additional patterns continued on next page)
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DEBAKEY MULTIPURPOSE VASCULAR CLAMPS
(continued)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Angle</th>
<th>Length (Inches)</th>
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<tbody>
<tr>
<td>354440</td>
<td>90° angle, 5 1/4&quot; (13.3 cm), jaw length 17 mm</td>
<td>90'</td>
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<tr>
<td>354442</td>
<td>30° angle, 6 1/4&quot; (15.9 cm), jaw length 37 mm</td>
<td>30'</td>
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<tr>
<td>354444</td>
<td>45° angle, 6&quot; (15.2 cm), jaw length 37 mm</td>
<td>45'</td>
<td>37</td>
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<tr>
<td>354446</td>
<td>60° angle, 5 3/4&quot; (14.6 cm), jaw length 36 mm</td>
<td>60'</td>
<td>36</td>
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<tr>
<td>354448</td>
<td>90° angle, 5 1/4&quot; (13.3 cm), jaw length 37 mm</td>
<td>90'</td>
<td>37</td>
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</table>
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DEBAKEY PEDIATRIC AND ADULT VASCULAR CLAMPS

354400  Small, 45° angle, 3 7/8” (9.8 cm), jaw length 15 mm
354402  Medium, 45° angle, 4 1/8” (10.5 cm), jaw length 30 mm
354404  Large, straight, 5 1/2” (14 cm), jaw length 45 mm
354406  15° angle, 5 1/4” (13.3 cm), jaw length 40 mm
354408  45° angle, 4 3/4” (11.9 cm), jaw length 40 mm

(additional patterns continued on next page)
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DEBAKEY PEDIATRIC AND
ADULT VASCULAR CLAMPS (continued)

- 354410  60° angle, 4 3/8” (11.1 cm), jaw length 40 mm
- 354412  90° angle, 3 3/4” (9.5 cm), jaw length 40 mm

DEBAKEY PATENT DUCTUS CLAMPS

- 354414  Straight, 6” (15.2 cm), jaw length 25 mm
- 354416  20° angle shank, 6” (15.2 cm), jaw length 30 mm
- 354418  Double angle jaw, 6” (15.2 cm), jaw length 30 mm
Vascular Clamps, Extra Fine
*AtrauGrip®* 1.5 mm Jaw (continued)

**DEBAKEY COARCTATION CLAMP**

- **354428** Straight, 6 1/4" (15.9 cm), jaw length 30 mm
- **354430** Angled shank, 6 1/4" (15.9 cm), jaw length 35 mm
- **354432** 15° angle jaw, 6 1/4" (15.9 cm), jaw length 32 mm

**DEBAKEY SPOON PERIPHERAL VASCULAR CLAMPS**

- **354420** Small spoon, 6" (15.2 cm), jaw length 20 mm
- **354422** Small spoon, angled, 5 3/4" (14.6 cm), jaw length 20 mm

*(additional patterns continued on next page)*
**Vascular Clamps, Extra Fine**

*Extra Fine Atraugrip® 1.5 mm Jaw (continued)*

<table>
<thead>
<tr>
<th>DEBAKEY SPOON PERIPHERAL VASCULAR CLAMPS (continued)</th>
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<th>DEBAKEY HALF CIRCLE PEDIATRIC AORTA CLAMP</th>
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<tr>
<th>REPLOGIE PEDIATRIC AORTA CROSS CLAMP</th>
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<tr>
<td>354427</td>
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</table>

**Maini Sapheno-Femoral Junction Clamps**

Both clamps are 6 1/8" (15.6 cm) in length. 4.0 cm jaws of small clamp nest within the jaws of the larger clamp. Designed for the division of the sapheno-femoral junction prior to the performance of an In-Situ saphenous vein bypass.

| 354421  | Small jaw, 6 1/8" (15.6 cm) |
| 354423  | Large jaw, 6 1/8" (15.6 cm) |
DEBORAH-CASTANEDA

PERIPHERAL VASCULAR CLAMPS

Jaw blades calibrated at 5 mm intervals.

- 354450  30° angle, 4 3/4" (12 cm), jaw length 30 mm
- 354452  50° angle, 4 9/16" (11.5 cm), jaw length 30 mm
- 354454  90° angle, 3 3/4" (9.5 cm), jaw length 30 mm

DEBORAH-CASTANEDA

PARTIAL OCCLUSION CLAMPS

Jaw blades calibrated at 5 mm intervals.

- 354456  Small, 4 1/2" (11.4 cm), jaw length 26 mm

(Additional patterns continued on next page)
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DEBORAH-CASTANEDA
PARTIAL OCCLUSION CLAMPS (continued)
Jaw blades calibrated at 5 mm intervals.

354458  Medium, 5 3/4” (14.6 cm), jaw length 16 mm
354460  Large, 5 3/4” (14.6 cm), jaw length 21 mm
354462  Extra large, 5 3/4” (14.6 cm), jaw length 26 mm

DERRA PARTIAL OCCLUSION CLAMPS

354464  Short, small, 4 1/2” (11.4 cm), jaw length 10 mm
354466  Short, medium, 4 3/8” (11.1 cm), jaw length 16 mm

(additional patterns continued on next page)
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DERRA PARTIAL OCCLUSION CLAMPS (continued)

- 354468 Short, large, 4 1/2” (11.4 cm), jaw length 28 mm
- 354470 Small, curved handle, 4 5/8” (11.7 cm), jaw length 17 mm
- 354472 Medium, curved handle, 4 3/4” (12. cm), jaw length 22 mm
- 354474 Large, curved handle, 4 7/8” (12.4 cm), jaw length 25 mm
- 354476 Deep, small, curved handle, 6” (15.2 cm), jaw length 17 mm

(additional patterns continued on next page)
Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DERRA PARTIAL OCCLUSION CLAMPS (continued)

354478  Deep, medium, curved handles, 6” (15.2 cm), jaw length 22 mm
354480  Deep, x-long, medium, 6 1/2” (15.9 cm), jaw length 25 mm
354482  Deep, Small, x-long, 7” (17.8 cm), jaw length 18 mm
354484  Deep, medium, x-long, 7” (17.8 cm), jaw length 20 mm
354486  Deep, large, x-long, 7 1/4” (18.4 cm), jaw length 25 mm
VASCULAR CLAMPS, PEDIATRIC

Vascular Clamps, Extra Fine
*AtrauGrip®* 1.5 mm Jaw (continued)

DEBAKEY PARTIAL OCCLUSION CLAMPS

- 354488 Small, 4 1/2" (11.4 cm), jaw length 13 mm
- 354490 Medium, 4 1/2" (11.4 cm), jaw length 20 mm
- 354492 Large, 4 1/2" (11.4 cm), jaw length 24 mm
- 354494 Small, X-Long, 6 1/2" (16.5 cm), jaw length 15 mm

(Additional patterns continued on next page)
VASCULAR CLAMPS, PEDIATRIC

Vascular Clamps, Extra Fine
AtrauGrip® 1.5 mm Jaw (continued)

DEBAKEY PARTIAL OCCLUSION CLAMPS
(continued)

354496  Medium, x-long, 6 1/2” (16.5 cm),
jaw length 16 mm
354498  Large, x-long, 6 1/2” (16.5 cm),
jaw length, 25 mm

COOLEY ANASTOMOSIS CLAMP

354126  6 3/4” (17.1 cm), jaw length 17 mm

CLEVELAND CLINIC BABY RENAL CLAMPS
Angled left and right. Features extra fine AtrauGrip®

353533  5 7/8” (14.9 cm), left
353534  5 7/8” (14.9 cm), right
Vascular Clamps, Extra Fine
*AtrauGrip® 1.5 mm Jaw* (continued)

**AMATO CLAMPS**
These clamps have shanks with extreme curvatures to keep the ring handles out of the field.

- **354431** Amato Angled Tip Clamp, Extra Fine *AtrauGrip*, 5 7/8" (15 cm) overall length, 10 cm distal tip

**AMATO SMALL DERRA CLAMP**

- **354433** Extra Fine *AtrauGrip*, 5" (12.7 cm) overall length, 1/2" (1.3 cm) deep jaw is a small Derra-shape

**Vascular Clamps, Pediatric 2 mm Jaw**

**PILLING MINIATURES PEDIATRIC INSTRUMENTS WITH ATRAUGRIP® JAWS**
Pilling Miniatures are all of the same general size (approximately 4 1/4" (10.8 cm) to center of box lock) and weight. They are considerably lighter than “standard adult” instruments of the same model. The jaws are approximately 2 mm wide with medium size *AtrauGrip* serration.

- **354720** Patent Ductus, straight, 6 3/4" (16.5 cm) overall length, 2 1/16" (5.2 cm) jaws
- **354721** Patent Ductus, angular, 6 3/8" (16.2 cm) overall length, 1 7/8" (4.7 cm) jaws
- **354722** Coarctation, straight, 7" (17.8 cm) overall length, 2 7/16" (6.1 cm) jaws

*(additional patterns continued on next page)*
Vascular Clamps, Pediatric 2 mm Jaw (continued)

PILLING MINIATURES PEDIATRIC INSTRUMENTS WITH ATRAUGRIP® JAWS (continued)
Pilling Miniatures are all of the same general size (approximately 4 1/4" (10.8 cm) to center of box lock) and weight. They are considerably lighter than “standard adult” instruments of the same model. The jaws are approximately 2 mm wide with medium size AtrauGrip® serration.

- 354723 Coarctation, angular, 7" (17.8 cm) overall length, 2 3/8" (6 cm) jaws
- 354724 Spoon shape, 7" (17.8 cm) overall length, 1 3/4" (4.4 cm) jaws

DEBAKEY ACUTELY CURVED CLAMPS
Jaws curve on 1 3/4" (4.4 cm) radius, entire length of jaws contain AtrauGrip® serrations.

- 354729 6 3/4" (17.1 cm) overall length
- 354730 Jaws are larger than 354729
  Length (B) 2 3/4" (7.2 cm), length (A) 1 3/4" (4.5 cm), depth (A) 3/4" (2 cm), 6 7/8" (17.5 cm) overall length

DEBAKEY PEDIATRIC MULTIPURPOSE CLAMPS

- 354735 6 11/16" (17 cm) long, angled 30°, AtrauGrip® jaw, 3/4" (1.9 cm) long past angle, spring handle, 1 x 7 ratchets

(additional patterns continued on next page)
Vascular Clamps, Pediatric 2 mm Jaw (continued)

**DEBAKEY PEDIATRIC MULTIPURPOSE CLAMPS (continued)**

- **354737** 6 1/2” (16.5 cm) long, angled 60°, AtrauGrip® jaw, 1 1/4” (3 cm) long past angle, spring handle, 1 x 7 ratchets
- **354739** 6” (15.2 cm) long, angled 90°, AtrauGrip® jaw, 1 1/2” (3.6 cm) long past angle, spring handle, 1 x 7 ratchets

**BECK AORTIC MINIATURE CLAMP**

- **354750** Jaw length (A) 1” (2.5 cm), (A) depth 0.6 cm, overall length 7” (17.8 cm)

**GLOVER CURVED MINIATURE CLAMP**

- **354755** Slightly curved jaws 1/2” (1.2 cm) long, 7” (17.8 cm) overall length
Vascular Clamps, Pediatric 2 mm Jaw (continued)

MINIATURE ANASTOMOSIS CLAMP

354435 Small jaw, (A) length 3/4” (1.9 cm), (A) depth 1/4” (.6 cm), 6 3/4” (17.1 cm) overall length

PILLING MINIATURES, MINI SATINSKY PEDIATRIC INSTRUMENTS WITH ATRAUGRIP® JAWS

Reynolds type clamps, baby size. These miniature models of the Satinsky clamp have AtrauGrip® jaws and are made in two jaw angles.

Acute angle, approximately 85˚.
Overall length, 6 3/4” (17.1 cm).

354185 Small jaw, (A) length 1 1/8” (2.9 cm), (A) depth 1/4” (.6 cm)
354186 Large jaw, (A) length 1 1/2” (3.6 cm), (A) depth 1/4” (.6 cm)

Standard angle, approximately 50˚.
Overall length 7 3/8” (18.7 cm).

354180 Small jaw, (A) length 1” (2.5 cm), (A) depth 3/16” (.5 cm)
354181 Large jaw, (A) length 1 1/8” (3 cm), (A) depth 1/4” (.6 cm)

BECK TYPE VESSEL CLAMPS

Small, acutely curved AtrauGrip® jaws.

354190 Small jaw, (A) length 3/4” (2.1 cm), (A) depth 3/8” (1 cm), 6” (15.2 cm) overall length
354191 Large jaw, (A) length 1 1/4” (3.2 cm), (A) depth 1/2” (1.1 cm), 6 1/2” (16.5 cm) overall length
Vascular Clamps, Cooley, Pediatric

COOLEY CLAMPS FOR PEDIATRIC CARDIOVASCULAR SURGERY
These clamps are designed especially for surgery in infants and small children. They have specially set ratchets to permit gradual application and release of the clamps.

Cooley Jaws. A double row of fine atraumatic teeth arranged in opposing rows grasp the vessel without crushing. Teardrop shape of jaws allows for maximum length of divided vessel for suturing (as patent ductus ateriosis).

Calibrations. Jaws are engraved at 5 mm intervals to facilitate accurate measurements. The calibration is on the outer sides of the jaws on cross clamps and on the outer sides of the jaws on cross clamps and on the anterior surface of partial occlusion clamps.

Cooley Clamps are “matched,” all of the same general size and weight. Tension is carefully calculated to be in proportion to jaw length, shape and intended use. Length is approximately 4 1/4” (10.8 cm) to center of box lock. Constructed of dull, non-glare finished stainless steel.

Shafts or arms of Cooley Clamps are of three different shapes — straight, angled or curved as shown in diagram.

Jaw shapes are varied as shown, and are calibrated starting from distal tip toward box lock or from center point of jaw, proceeding in both directions.

COOLEY NEONATAL CLAMPS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Overall Length</th>
<th>Jaw Length</th>
<th>Handle Shape</th>
<th>Ratchet Count</th>
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<tr>
<td>357302</td>
<td>4 7/8” (12.5 cm) overall length, angled shanks, straight jaw 1 9/16” (4 cm), spring handle, 1 x 6 ratchets</td>
<td>5” (12.7 cm)</td>
<td>1 9/16” (4 cm)</td>
<td>Straight</td>
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<td>5” (12.7 cm) overall length, curved shanks, angled jaw 1 1/2” (4 cm), spring handle, 1 x 6 ratchets</td>
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<td>Angled</td>
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<td>Curved</td>
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<td>357308</td>
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<td>1 x 6</td>
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<td>357310</td>
<td>5” (12.7 cm) overall length, curved shanks, carotid jaw 1 1/8” (3 cm), spring handle, 1 x 6 ratchets</td>
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<td>1 x 6</td>
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Vascular Clamps, Cooley, Pediatric (continued)

COOLEY PEDIATRIC PATENT DUCTUS CLAMPS

354800  6 1/2” (16.5 cm) overall length, straight calibrated jaw 1 1/8” (3 cm), spring handle, 1 x 7 ratchets
354801  6 1/2” (16.5 cm) overall length, angular shanks, straight calibrated jaw 1 1/8” (3 cm), spring handle, 1 x 7 ratchets
354802  6 7/8” (17.5 cm) overall length, straight shanks, straight calibrated jaw 1 1/2” (3.8 cm), spring handle, 1 x 7 ratchets
354803  6 7/8” (17.5 cm) overall length, angled shanks, straight calibrated jaw 1 1/2” (3.8 cm), spring handle, 1 x 7 ratchets
354804  7 1/4” (18.4 cm) overall length, straight shanks, curved calibrated jaw 2” (5 cm), spring handle, 1 x 7 ratchets

(additional patterns continued on next page)
Vascular Clamps, Cooley, Pediatric (continued)

COOLEY PEDIATRIC PATENT DUCTUS CLAMPS (continued)

354808  7" (17.8 cm) overall length, spoon shaped jaws, straight handles, 5 mm calibrated jaws, length 1 1/2" (3.8 cm)

DUCKBILL CLAMP

354809  Jaws angled to side and curved, overall length 6 3/4" (17.1 cm), 1/2" calibrated jaws, 1 1/4" (32 cm) long from angle, straight handles

BECK TYPE VESSEL CLAMP

Small acutely curved jaws calibrated on anterior surface from center point outward.

354810  Straight handles, overall length 6 1/8" (15.6 cm), jaw 1" (2.5 cm)

COOLEY CLAMPS

Acutely curved clamps. jaws calibrated on anterior surface from center point outward. Angular shafts.

354826  Medium clamp, 6 3/4" (17.1 cm) overall length, full length Cooley jaw serrations, 1 1/2" (3.8 cm)

354827  Large clamp, 6 7/8" (17.4 cm) overall length, full length Cooley jaw serrations, 1 13/16" (4.6 cm)
Vascular Clamps, Cooley, Pediatric (continued)

COOLEY PEDIATRIC DERRA CLAMP

354815  7” (18 cm) long, slightly curved shafts, Small calibrated jaw, 3/4” (2 cm), spring handle, 1 x 7 ratchets
354816  7” (18 cm) long, slightly curved shafts, Medium calibrated jaw, 1 1/8” (2.9 cm), spring handle, 1 x 7 ratchets
354817  7” (18 cm) long, slightly curved shafts, Large calibrated jaw, 1 3/16” (3 cm), spring handle, 1 x 7 ratchets

COOLEY PEDIATRIC MULTIPURPOSE CLAMPS

354805  6 3/4” (17 cm) long, angled shanks, angled 30˚ calibrated jaw, 3/4” (1.9 cm), spring handle, 1 x 7 ratchets
354806  6 1/2” (16.5 cm) long, angled shanks, angled 60˚ calibrated jaw, 1 3/16” (3 cm), spring handle, 1 x 7 ratchets

(additional patterns continued on next page)
VASCULAR CLAMPS, PEDIATRIC

Vascular Clamps, Cooley, Pediatric (continued)

COOLEY PEDIATRIC MULTIPURPOSE CLAMPS (continued)

- 354807  6" (15.2 cm) long, angled shanks, angled 90° calibrated jaw, 1 3/16 (3 cm), spring handle, 1 x 7 ratchets

COOLEY CLAMPS FOR PEDIATRIC AND INFANT CARDIOVASCULAR SURGERY

Double angle jaws calibrated on anterior surface from center point outward. Angular shafts. 6 3/4" (17.1 cm) length.

- 354831  Angled 90°, large jaws
- 354830  Angled 90°, small jaws

COOLEY PEDIATRIC CARDIOVASCULAR CLAMPS

- 354835  6 7/8" (17.5 cm) length, angular shafts, small double angled 60° calibrated jaw 1" (2.5 cm), spring handle, 1 x 7 ratchets
- 354836  7 1/8" (18.1 cm) length, angular shafts, large double angled 60° calibrated jaw 1" (2.5 cm), spring handle, 1 x 7 ratchets
Vascular Clamps, Cooley, Pediatric (continued)

ANASTOMOSIS CLAMP
Jaws are calibrated on the anterior surface from center point outward. This miniature vascular clamp is designed for partial occlusion of a major vessel (aorta, inferior vena cava, carotid artery, etc.) where total occlusion may be undesirable. Calibrations at 5 mm intervals on the jaws are useful in aortico-pulmonary anastomosis in infants and children with tricuspid atresia or tetralogy of Fallot. Lightweight calibrated jaws 3/4” (2 cm) with Cooley serration.

- **354845** 7 1/8” (18 cm) length, spring handle, 1 x 7 ratchets
- **354125** 7 1/8” (18 cm) length, spring handle, Extra Fine AtrauGrip® jaws 1.5 mm, 1 x 7 ratchets

COOLEY MINIATURE ANASTOMOSIS CLAMP

- **356034** 5 1/2” (13.97 cm)

COOLEY PEDIATRIC MODIFIED ANASTOMOSIS CLAMP

- **354847** 7” (18 cm) long, 30° side angle, calibrated jaw 3/4” (2.2 cm), spring handle, 1 x 7 ratchets
VASCULAR CLAMPS, PEDIATRIC

Titanium Vascular Clamps, Pediatric

DEBAKEY PEDIATRIC TITANIUM CLAMPS

- 359354 Straight jaws, 4" (10.5 cm)
- 359355 60° angled jaws, 4" (10.5 cm)
- 359356 Anastomosis clamp with 6 mm angled operational jaw length, 4" (10.5 cm)
- 359357 Anastomosis clamp with 6 mm curved operational jaw length, 4" (10.5 cm)
- 359358 Anastomosis clamp with 9 mm operational jaw length, 4" (10.5 cm)

CASTANEDA PEDIATRIC TITANIUM CLAMPS

Clamping Forceps (10 grams).

- 359201 Straight jaw, 5 1/4" (13 cm)
- 359202 30° angled jaw, 5 1/4" (13 cm)
- 359203 50° angled jaw, 5 1/4" (13 cm)
- 359204 70° angled jaw, 4 3/4" (12 cm)
- 359205 90° angled jaw, 4 1/4" (11 cm)
- 359206 Curved jaw, 4 3/4" (12 cm)
- 359207 Curved jaw, 5 1/4" (13 cm)
- 359208 Curved jaw, 6" (15 cm)
**CASTANEDA PEDIATRIC TITANIUM CLAMPS**

Clamping Forceps (15 grams).

- **359209** Curved jaw, 6" (15 cm)
- **359210** Curved jaw, 6" (15 cm)
- **359211** Straight jaw, 6 1/4" (16 cm)
- **359212** 30° angled jaw, 6 1/4" (16 cm)
- **359213** 50° angled jaw, 6" (15 cm)
- **359214** 70° angled jaw, 6" (15 cm)
- **359215** 90° angled jaw, 5 3/4" (14 cm)

**COOLEY PEDIATRIC TITANIUM CLAMPS**

- **359216** Straight jaws and straight shafts, 6 1/4" (16 cm)
- **359217** Straight jaws and angular shafts, 6 3/4" (16 cm)
- **359218** Straight jaws for Coarctation, 6 3/4" (17 cm)
- **359219** Straight jaws for Coarctation and angled shafts, 6 3/4" (17 cm)
- **359220** Curved jaws for Coarctation, 6 3/4" (17 cm)
- **359221** Spoon shaped jaws for Coarctation, 6 3/4" (17 cm)
- **359226** 60° angled small jaw, 6 3/4" (17 cm)
- **359227** 60° angled small jaw, 7 1/8" (18 cm)

*(additional patterns continued on next page)*
Titanium Vascular Clamps, Pediatric (continued)

COOLEY PEDIATRIC TITANIUM CLAMPS
(continued)

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<td>359228</td>
<td>90° angled small jaw, 6 3/4” (17 cm)</td>
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<tr>
<td>359229</td>
<td>90° angled small jaw, 7” (17.5 cm)</td>
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<td>359230</td>
<td>Curved medium jaw, 6 1/2” (16.5 cm)</td>
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<tr>
<td>359231</td>
<td>Curved large jaw, 6 3/4” (17 cm)</td>
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<td>30° angled jaw, 6 3/4” (17 cm)</td>
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<td>359233</td>
<td>60° angled jaw, 6 3/8” (16 cm)</td>
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<tr>
<td>359234</td>
<td>90° angled jaw, 6” (15 cm)</td>
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SUBRAMANIAN PEDIATRIC TITANIUM CLAMP

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<td>359223</td>
<td>Aorta clamp with 70° angled jaw, 6 1/4” (16 cm)</td>
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</table>
Titanium Vascular Clamps, Pediatric (continued)

BECK PEDIATRIC TITANIUM CLAMPS

359222  Aorta clamp with curved jaws and straight shafts, 6 1/2" (16.5)
359224  Small curved jaw, 6" (15 cm)
359225  Large curved jaw, 6" (15 cm)

DERRA PEDIATRIC TITANIUM CLAMPS

359235  Anastomosis clamp with curved jaws, 6 1/2" (16.5 cm)
359236  Anastomosis clamp with curved jaws, 6 3/4" (17 cm)
359237  Anastomosis clamp with curved jaws, 7 1/8" (18 cm)
Many Pilling vascular clamps feature the patented AtrauGrip® non-traumatic jaws and Life-Lok® mortise box lock.

Ratchets on Pilling vascular clamps provide the precision control needed for arterial clamping. Ratchets are designed with steps (1 x 7, 1 x 9, 1 x 11) to furnish the specific amounts of desired pressure. Jaws are precision set by hand.

Jaws on Pilling clamps are set with precision. Coordination of ratchet length and jaw setting provide the precise amount of required compression.

Many styles of Pilling AtrauGrip® clamps are available with spring handles. With this construction feature, a portion of the shaft is flattened or otherwise altered and specially tempered to eliminate rigidity and provide a softness proportionate with the overall size and purpose of the instrument. The intention is to minimize trauma to vessels with the soft spring handles but hold securely with AtrauGrip® jaws.

History and Achievements

Since 1814, well before the Civil War, Pilling has designed and manufactured high quality surgical instruments. As one of the oldest surgical instrument companies in the world, we have continued our tradition of craftsmanship and innovation which has established us as the leaders in our field. As a result of these efforts, a very large proportion of the cardiovascular surgical instruments being used in surgery today have been developed by Pilling. Pilling was the first surgical instrument company to receive a United States and Worldwide patent for an innovation in the design of a non-traumatic jaw serration, the AtrauGrip® jaw.

Why Pilling

Every cardiovascular instrument that we produce is set and checked by hand, then checked again to assure that it has the “feel” so essential to the surgeon. Pilling has gained international acclaim for providing the ultimate in surgical tools. Working closely with the world’s top specialists, we continue to customize instrumentation to meet their exacting individual requirements. We have designed over 500 vascular clamps.

Most Pilling clamps are covered by Patent No. 2,668,538 and other patents.

AtrauGrip® and Life-Lok® are registered trademarks of Pilling TFX Surgical Specialties.
VASCULAR CLAMPS

TIPS
Uniformly rounded. Virtually eliminates the potential for suture snag.

CREST
Prevents inadvertent pinching of tissue by providing an expansion area for the tissue.

JAWS
Jaws on Pilling clamps are set with precision. Coordination of ratchet length and jaw setting provide the precise amount of required compression.

ATRAUGRIP® JAWS
A single row of finely serrated teeth opposing a double row, precisely crafted are designed to deliver the most minimal trauma to tissue.

RATCHETS
Provide the finite control necessary in cardiovascular thoracic surgery. They are designed to furnish the precise increments of pressure desired. Furnished in 1 x 7, 1 x 9, 1 x 11 steps.

SHANKS
Tempered to eliminate rigidity while providing proportionate softness.

FINGER RINGS
Comfortably sized.
Types of Jaws Used in Pilling
Cardiovascular Clamps

A single row of serrated teeth opposing a double row. The most commonly used jaw design, (and most imitated). Proven through many years’ use at hospitals throughout the world, on adult peripheral vascular, aortic occlusion and partial occlusion clamps.

A small version of the original AtrauGrip® used on most bulldogs, vascular tissue forceps and numerous pediatric clamps.

The smallest size AtrauGrip® being used on many new pediatric and adult peripheral vascular clamps, bulldogs and forceps.

Double row of serrated teeth opposing a triple row. This modified version of the AtrauGrip® serration, having a broader clamping surface, is used on large clamps for aortic cross clamping and on diseased and calcified arteries. Clamps with the 2 x 3 serration are also used frequently in general surgery as bowel clamps.

Two opposing rows of fine atraumatic teeth. Originally designed especially for surgery on infants and children the jaws grasp vessels firmly with less danger of crushing. Also available on a limited group of adult vascular clamps.

Single row of opposing teeth. The narrowest available vascular clamp. Designed for neonatal vascular surgery, these clamps have also proven of value in adult surgery of the carotid femoral and popliteal arteries and for creating A.V. Fistulas.
**VASCULAR CLAMPS**

**DEBAKEY RING HANDLE BULLDOG CLAMPS**

These short, sturdy clamps are intended for use in place of the longer sizes of “squeeze handle” bulldogs. They measure only 2 3/4” (7 cm) from the center point of the box lock to end of the ring handles, averaging approximately 4 3/4” (12 cm) to 5 1/8” (13 cm) overall length depending on shape. Narrow AtrauGrip® jaws and spring handles provide firm, non-traumatizing grip.

- 353182  Straight, jaw length 2 1/4” (5.7 cm)
- 353186  Curved, jaw length 2 3/8” (6 cm)
- 353189  Angled 45°, jaws 1 3/16” (3 cm) past angle, curved shafts
- 353192  Angled 90°, jaws 1 3/4” (4.4 cm) past angle, straight shafts
- 353195  S-shaped, curved jaws 2 3/8” (6 cm) long and curved shafts
Ring Handled Bulldog Clamps

GREGORY MINIATURE VASCULAR CLAMPS
Very delicate, small vessel occlusion clamps, with AtrauGrip® jaws 1.5 mm wide and Life-Lok® box lock.

- **353183** Straight, extra light, 4 3/4” (12 cm)
- **353187** Curved, extra light, 4 1/8” (10.4 cm)
- **353190** Angled 45°, extra light, 4 3/8” (11.1 cm)

Peripheral Vascular Clamps

DEBAKEY ANGLED PERIPHERAL VASCULAR CLAMP

- **353535** 7 3/16” (18.2 cm) long, angled AtrauGrip® jaw 2 1/4” (6.5 cm), spring handles, 1 x 7 ratchets

DEBAKEY “S” SHAPE PERIPHERAL VASCULAR CLAMP

- **353540** 7 7/8” (20 cm) long, AtrauGrip® jaw 2” (5.1 cm), spring handles, 1 x 7 ratchets
Peripheral Vascular Clamps (continued)

DEBAKEY AORTIC EXCLUSION CLAMP

353545  Overall length 7 1/4” (18.5 cm), AtrauGrip® jaws 3” (7.5 cm) long around the curved jaws, 2 9/16” (6.5 cm) long across the jaw curve, 1/2” (14 mm) deep

DEBAKEY CURVED PERIPHERAL VASCULAR CLAMP

353550  6 1/2” (16.5 cm) long, AtrauGrip® jaw 1 3/4” (4.4 cm), spring handle, 1 x 7 ratchets

LELAND JONES PERIPHERAL VASCULAR CLAMPS

353490  8” (20.3 cm) long, straight, AtrauGrip® jaw 3 1/2” (8.9 cm), 1 x 7 ratchets
353491  8 1/4” (21 cm) long, 15° angle, AtrauGrip® jaw 3 1/2” (8.9 cm), 1 x 7 ratchets
353492  8 1/4” (21 cm) long, 30° angle, AtrauGrip® jaw 3 1/2” (8.9 cm), 1 x 7 ratchets
Peripheral Vascular Clamps (continued)

GREGORY PROFUNDA CLAMPS

353494 5 3/8" (14.8 cm) long, small, AtrauGrip® jaw extra fine 2 1/4" (5.7 cm), 1 x 6 ratchets
353495 7" (17.8 cm) long, medium, AtrauGrip® jaw regular 3 3/8" (8.6 cm), 1 x 6 ratchets
353496 7 3/4" (19.7 cm) long, large, AtrauGrip® jaw 1 3/4" (4.4 cm), 1 x 6 ratchets

DEBAKEY BAINBRIDGE VASCULAR CLAMPS

Light, delicate construction throughout with narrow AtrauGrip® jaws. Very useful as peripheral vascular clamps.

353560 Straight, 4 cm jaws, overall length 7" (17.8 cm)
353562 Straight, 6 cm jaws, overall length 7 7/8" (20 cm)
353565 Curved, 4 cm jaws, overall length 6 7/8" (17.4 cm)
353567 Curved, 6 cm jaws, overall length 7 3/4" (19.6 cm)
Peripheral Vascular Clamps (continued)

MITCHEL-ADAM MULTIPURPOSE CLAMP
A delicate vascular clamp 25 cm long with curved shanks. Designed as a delicate multi-purpose clamp for vascular surgery with *AtrauGrip*® jaws.

353639  9 7/8" (25 cm) long delicate vascular clamp with curved shanks, *AtrauGrip*® jaws

DERRA MINIATURE ANASTOMOSIS CLAMPS

354135  Small 6 7/8" (17.4 cm) long, *AtrauGrip*® jaw, 1/2" (1.5 cm), spring handle, 1 x 7 ratchets
354136  Medium 7 1/8" (18 cm) long, *AtrauGrip*® jaw, 3/4" (2 cm), spring handle, 1 x 7 ratchets
354137  Large 7 1/4" (18 cm) long, *AtrauGrip*® jaw, 1" (2.5 cm), spring handle, 1 x 7 ratchets

DIETHRICH ARTERY CLAMP
A delicate clamp with handles designed for partial occlusion in coronary artery surgery.

353700  Overall length 7 1/8" (18.1 cm), *AtrauGrip*® jaws length 1 1/4" (33 mm), depth 6 mm
Peripheral Vascular Clamps (continued)

**DIETHRICH CAVAL OCCLUSION CLAMP ATRAUGRIP®**

353536  9 3/4” (24.8 cm)

**DEBAKEY VASCULAR CLAMPS**

These are multipurpose clamps, full length but light weight, with AtrauGrip® Jaws and spring handles. In addition to their use as Coarctation or Patent Ductus clamps, they are particularly useful for temporarily occluding renal arteries during cardiopulmonary by-pass. The special narrow, AtrauGrip® jaws are only 2.5 mm wide. Spring handles minimize trauma to vessels during temporary occlusion of arteries.

**DEBAKEY COARCTATION CLAMPS**

353500  8 7/8” (22.5 cm) long, straight AtrauGrip® jaw
        3 1/8” (7.9 cm), spring handle, 1 x 9 ratchets
353503  8 7/8” (22.5 cm) long, angular AtrauGrip® jaw
        3” (7.6 cm), spring handle, 1 x 9 ratchets

**DEBAKEY PATENT DUCTUS CLAMPS**

353510  8 1/8” (20.6 cm) long, straight AtrauGrip® jaw
        2 1/4” (5.7 cm), spring handle, 1 x 9 ratchets
353513  8 3/16” (20.7 cm) long, angular AtrauGrip® jaw
        2 1/4” (5.7 cm), spring handle, 1 x 9 ratchets
Peripheral Vascular Clamps (continued)

DEBAKEY RENAL ARTERY CLAMP

353515  10" (25.5 cm) long, curved handle AtrauGrip® jaw
         2 1/2" (6.5 cm), spring handle, 1 x 9 ratchets

HENLY SUBCLAVIAN ARTERY CLAMP

Double angled AtrauGrip® jaws specially designed to allow clamping an artery of medium size from beneath the artery, allowing an unobstructed working area anteriorly. It is extremely useful for occlusion of the subclavian artery exposed through a supraclavicular incision or for occlusion of the femoral artery exposed through a groin incision.

353538  8 1/2" (21.5 cm)

Renal Clamps

CLEVELAND CLINIC RENAL CLAMPS

Specifically designed to access renal arteries. Jaws angled left and right. AtrauGrip® jaws.

353531  Left Large, 9 5/8" (24.5 cm) overall length,
         3/4" (1.9 cm) distal tip
353532  Right Large, 9 5/8" (24.5 cm) overall length,
         3/4" (1.9 cm) distal tip

(additional patterns continued on next page)
Renal Clamps (continued)

CLEVELAND CLINIC RENAL CLAMPS (continued)
Specifically designed to access renal arteries. Jaws angled left and right. AtrauGrip® jaws.

- **353533** Left Baby Renal Clamp, Extra Fine AtrauGrip®, 5 7/8" (14.9 cm), 1.5 mm jaw
- **353534** Right Baby Renal Clamp, Extra Fine AtrauGrip®, 5 7/8" (14.9 cm), 1.5 mm jaw

MASON CLAMP
Thin lightweight AtrauGrip® jaws designed for side to side spleno-renal shunt. 48 mm wide at clamping portion of jaw.

- **353520** 8 1/8" (20.6 cm) overall length

WIRTHLIN SPLENO-RENAL SHUNT CLAMP

- **353522** 6 1/2" (16.5 cm) long, AtrauGrip® jaw, 1 3/8" (3.5 cm), spring handle, 1 x 6 ratchets
Renal Clamps (continued)

STONEY SPLENO-RENAL SHUNT CLAMPS

353523 9" (23 cm) long, Extra Fine AtrauGrip® jaw 1" (2.5 cm), spring handle, 1 x 9 ratchets
353524 9 1/4" (23.4 cm) long, Extra Fine AtrauGrip® jaw 3/4" (2.0 cm), spring handle, 1 x 9 ratchets
353525 9 1/2" (24.1 cm) long, Extra Fine AtrauGrip® jaw 1 1/4" (3 cm), spring handle, 1 x 9 ratchets

Aortic Clamp

CHERRY SUPRACELIAC CLAMP

Used in thoracic and abdominal aortic aneurysm repairs, renal vascular procedures, mesenteric artery revascularization. For deep access to aorta superior to the celiac artery. Jaw length and curve combine with angled handle to provide optimum cross clamping capability and reduced operative field obstruction.

353539 AtrauGrip® tooth pattern (2 x 3), jaw length curved 5 3/4" (14.5 cm), overall length 12 1/2" (31.7 cm), 60˚ handle, Life-Lok® box lock

Femoral-Popliteal Clamps

DALE IMPROVED FEMORAL-POPLITEAL ANASTOMOSIS CLAMP

353528 7 1/2" (19 cm) long, AtrauGrip® jaw 1 1/2" (4 cm), spring handle, 1 x 7 ratchets
Femoral-Popliteal Clamps (continued)

DALE FEMORAL-POPLITEAL CLAMPS

353541  Small, 6 7/8" (17.5 cm) long, AtrauGrip® jaw, 1/2" (1.5 cm), spring handle, 1 x 7 ratchets
353542  Medium, 7" (17.7 cm) long, AtrauGrip® jaw, 3/4" (2 cm), spring handle, 1 x 7 ratchets
353543  Large, 7 1/8" (18 cm) long, AtrauGrip® jaw, 1" (2.5 cm), spring handle, 1 x 7 ratchets

DEMOS TIBIAL ARTERY CLAMP

Specially angled in the plane of the handle. This clamp has reduced the tendency to twist or distort a vessel in procedures requiring distal popliteal or tibial occlusion.

353568  8 1/2" (21.5 cm) long, AtrauGrip® jaw, 1 1/2" (4 cm), spring handle, 1 x 9 ratchets
Cooley Vascular Clamps

COOLEY CAROTID, SUBCLAVIAN, AND RENAL CLAMP
Long slender clamp with jaws calibrated on outer sides from distal tip. Curved shafts, angled tips.

354839  Carotid, jaw length 5/8” (15 mm), overall length 7 1/4” (18.5 cm)

COOLEY RENAL ARTERY CLAMP
Long slender clamp with jaws calibrated on outer sides from distal tip. Curved shafts.

354841  Jaw length 1” (25 mm), overall length 11 7/8” (30 cm)

COOLEY ANGLED STRAIGHT JAW PERIPHERAL VASCULAR CLAMP
Useful for temporarily occluding the femoral, popliteal, subclavian and carotid arteries during performances of thromboendarterectomy or application of a bypass procedures. Relatively lightweight Cooley jaws.

356025  7 1/2” (19 cm)

COOLEY ILIAC CLAMPS
Angled jaws. Usually long jaws contain Cooley type serrations only on the distal portion.

356027  Light model, 4” (10 cm) jaws contain Cooley serrations on distal 1 3/4” (4.5 cm), overall length 8 1/2” (21.8 cm)
356028  Deep length 4” (10 cm) jaws contain Cooley serrations on distal 2” (5 cm), overall length 10” (25.5 cm)
Cooley Vascular Clamps (continued)

**COOLEY CURVED PERIPHERAL VASCULAR CLAMP**
For temporary occlusion of smaller, major peripheral vessels such as the femoral or popliteal arteries. Small lightweight with Cooley jaws.

356031 6 1/2" (16.5 cm)

**COOLEY PATENT DUCTUS CLAMPS**
Jaw section 1 3/16" (3 cm) long. Overall length, 8" (20.3 cm).

356040 Straight
356041 Angular

**COOLEY COARCTATION CLAMPS**
Standard length. Jaw section 2 1/8" (5.5 cm) long. Overall length 8 3/4" (22.5 cm).

356045 Straight
356046 Angular
Cooley Vascular Clamps (continued)

COOLEY CURVED CLAMP

356065 Standard size, jaws curved on 1 1/4" (3.2 cm) radius, jaw length at (B) is 2 1/8" (5.5 cm), (A) length, 1 3/4" (4.5 cm), (A) depth, 7 mm, overall length, 8 1/4" (21.2 cm)

COOLEY, JAW PARTIAL OCCLUSION CLAMPS

Full adult size with Cooley 2 x 2 jaws, varying in length and jaw size. All have long distal sections adding to their value as partial tangential occlusion clamps.

356051 No. 1, (A) length 2.3 cm, (A) depth 7 mm, overall length 7 3/4" (19.8 cm)
356052 No. 2, (A) length 3.5 cm, (A) depth 8 mm, overall length 8 1/2" (21.8 cm)
356053 No. 3, (A) length 5.2 cm, (A) depth 12 mm, overall length 8 1/2" (21.8 cm)
356054 No. 4, (A) length 6.0 cm, (A) depth 12 mm, overall length 8 1/2" (21.8 cm)
356055 No. 5, (A) length 7.3 cm, (A) depth 12 mm, overall length 8 3/4" (22.5 cm)
356056 Set of 5 clamps
Cooley Vascular Clamps (continued)

**COOLEY JAW MULTIPURPOSE CLAMPS**

60° angled jaws with curved shafts.

- **356070**  
  No. 1, jaw length 1 1/2" (3.9 cm), overall length 8 3/8" (21.3 cm)

- **356071**  
  No. 2, jaw length 2 1/8" (5.5 cm), overall length 8" (20.3 cm)

- **356072**  
  No. 3, jaw length 2 1/2" (6.5 cm), overall length 8" (20.3 cm)

**Carotid Clamps**

**WYLIE EXTERNAL CAROTID CLAMP**

- **353570**  
  8" (20.3 cm) long, *Atraugrip®* jaw, 3" (7.5 cm), spring handle, 1 x 7 ratchets

**WYLIE INTERNAL CAROTID CLAMP**

- **353571**  
  8 1/4" (21 cm) long, *Atraugrip®* jaw, 2 7/8" (7.5 cm), spring handle, 1 x 7 ratchets
VASCULAR CLAMPS

Carotid Clamps (continued)

ACLAND CAROTID CLAMPS, ATRAUGRIP® JAWS

- 353572 Straight, 7” (17.8 cm)
- 353573 Left, 7 1/4” (18.4 cm)
- 353574 Right, 7 1/4” (18.4 cm)

WYLIE HYPOGASTRIC CLAMP

- 353657 Atraugrip® jaws, 9 1/2” (24.1 cm)
Carotid Clamps (continued)

WYLIE CAROTID CLOSURE CLAMP
1.5 mm AtrauGrip® jaw.

353569  Overall length 6” (15.2 cm), jaw length 32mm

Carotid Clamps, 1 mm Jaw

CALMAN CAROTID CLOSURE CLAMP

357180  4 3/8” (11.1 cm) overall length, angled handles
long jaw, 1 mm thick, 1” (2.5 cm), spring handle,
1 x 6 ratchets

EXAMPLE CLAMP

357185  6” (15.2 cm) overall length, slightly curved
handles, long jaw, 1 mm thick, 1” (2.5 cm)
spring handle, 1 x 6 ratchets

THOMPSON CAROTID CLOSURE CLAMP

357194  6 1/8” (15.5 cm) overall length, slightly curved
handles, long jaw, 1 mm thick, 1 3/8” (3.5 cm),
spring handle, 1 x 6 ratchets
VASCULAR CLAMPS

Carotid Clamps, 1 mm Jaw (continued)

KARTCHNER INTERNAL CAROTID CLAMP

357197  6 3/8” (16.2 cm) long, slightly curved handles, long jaw, 1 mm thick, 1 3/8” (3.5 cm), spring handles, 1 x 6 ratchets

Carotid Clamps, Extra Fine AtrauGrip® 1.5 mm Jaw

THOMPSON CAROTID CLOSURE CLAMP

357195  Overall length 5 3/4” (14.6 cm), jaw length 22 mm

KARTCHNER INTERNAL CAROTID CLAMP

357198  Overall length 6 1/4” (15.9 cm), jaw length 10 mm

Carotid Clamps

WYLIE CAROTID DISSECTING CLAMP
The endarterectomy dissection plane is developed just at the level of maximum disease. Once the plane has been developed to the depth of the artery, a special sharply curved clamp is used to continue the dissection to the opposite side of the arteriotomy. The Wylie Carotid Dissecting Clamp was designed for this purpose and may be preferred to a standard right angle clamp.

355196  6” (15.2 cm)
Carotid Clamps (continued)

GREGORY INTERNAL CAROTID
“SOFT” BULLDOG, ATRAUGRIP® JAWS

353077 4 3/4” (12 cm) overall length, 2 3/4” (7 cm) jaw

GREGORY CAROTID ANGLED BULLDOG

353078 1/2” (1.2 cm) distal tip, 2 1/2” (6.4 cm)
AtrauGrip® jaw, 4 5/8” (11.7 cm) overall length

CALMAN CAROTID SHUNT CLAMPS
Ring tipped bulldog clamps designed to lay out of the way while holding the shunt in place during carotid endarterectomy. For use with Javid Shunts.

353080 Straight, with small ring, for use on the internal carotid artery superiorly holding the shunt in place, 5 mm ring, 3 1/2” (8.8 cm)

353085 Angled, with large ring for use on the common carotid artery inferiorly, 8 mm ring, 3 3/4” (9.5 cm) overall length

BERKOWITZ INTERNAL CAROTID CLAMPS

353081 Berkowitz Internal Carotid Cross-Clamp
Ring handled carotid cross clamp with AtrauGrip® teeth, 5 3/4” (14.6 cm) overall length

353082 Berkowitz Internal Carotid Artery Shunt Clamp
Ring handled carotid shunt clamp with ring tip, 3.2 mm ring, 5 3/4” (14.6 cm) overall length
Carotid Clamps (continued)

JAVID SHUNT CLAMPS

353086  Large 5.7 mm ring, 7 3/8" (18.7 cm) overall length
353087  Small 3.4 mm ring, 6 7/8" (17.4 cm) overall length

Unique Vascular Clamps

STONE TRAUMA CLAMP
The Trauma Clamp has been especially useful for gaining immediate control of major retroperitoneal bleeders. Because of its rounded end, the clamp can be firmly pushed into deeper tissues without preliminary incision of the posterior peritoneum or dissection of any of the adjacent structures. This single instrument can also be used for vessel control during performance of an arterial anastomosis. When both arteries are held in a single clamp, the infuriating motion that results from two vessels being held by two separate clamps in two different hands is thereby eliminated.

353880  1 1/2" (4 cm) AtrauGrip® jaw ring, 10 1/4" (26 cm) overall length, 1 x 9 ratchets

BLALOCK PULMONARY ARTERY CLAMP

353327  Large, 3/4" (19 mm) jaws, length 7 3/4" (19.6 cm)
Titanium Vascular Clamps

GLOVER TITANIUM PATENT DUCTUS COARCTATION VASCULAR CLAMPS

- 359132  8” (20 cm), straight handles, DeBakey jaws 30 mm
- 359133  8” (20 cm), angular handles, DeBakey jaws 32 mm
- 359134  8” (20 cm), straight handles, DeBakey jaws 45 mm
- 359135  8” (20 cm), angular handles, DeBakey jaws 34 mm
- 359136  8 1/4” (21 cm), straight handles, DeBakey jaws 30 mm
- 359137  8 1/4” (21 cm), angular handles, DeBakey jaws 32 mm
- 359138  8 5/8” (22 cm), straight handles, DeBakey jaws 45 mm
- 359139  8 5/8” (22 cm), angular handles, DeBakey jaws 34 mm

GLOVER TITANIUM VASCULAR CLAMPS

- 359147  8 1/4” (21 cm), curved DeBakey jaws
- 359148  9 1/2” (24 cm), curved DeBakey jaws
- 359150  8 1/2” (21.5 cm), spoon shaped DeBakey jaws
- 359151  10 3/8” (26 cm), spoon shaped DeBakey jaws
- 359194  Auricular handles with 30 mm operational jaw length, 10” (25 cm)
Titanium Vascular Clamps (continued)

**LELAND-JONES TITANIUM VASCULAR CLAMP**
- 359169 7 1/2” (19 cm), 30˚ angled DeBakey jaws
- 359170 8” (20 cm), 15˚ angled DeBakey jaws
- 359171 8 1/4” (21 cm), straight DeBakey jaws

**DEBAKEY TITANIUM VASCULAR CLAMP**
- 359155 7 3/8” (18.5 cm), curved DeBakey jaws
- 359172 6” (15 cm), curved DeBakey jaws
- 359173 8” (20 cm), curved DeBakey jaws
- 359175 8 1/4” (21 cm), curved DeBakey jaws
- 359176 9 1/2’ (24 cm), curved DeBakey jaws
VASCULAR CLAMPS

Titanium Vascular Clamps (continued)

RENALE ARTERY TITANIUM VASCULAR CLAMP

- **359238** Curved jaws, 7 1/2" (19 cm)
- **359239** Curved jaws, 8" (20 cm)
- **359240** Curved jaws, 10 3/4" (27 cm)

SWAN TITANIUM PATENT DUCTUS COARCTATION VASCULAR CLAMP

- **359196** Atrial clamp, angular DeBakey jaws, 9" (23 cm)