
Achieve smaller approaches. Handle greater challenges.
Minimally invasive approaches, performed through small incisions, are becoming state-of-the-art in an effort by healthcare professionals to provide each patient with the best possible treatment. The most common types of minimally invasive cardiac surgery (MICS) are valve surgeries, including repairs and replacements, and even more challenging, coronary artery bypass. Such smaller incisions without a full sternotomy are expected to leave smaller scars with less trauma and bleeding, including less pain, and a decreased risk of infection. They also should decrease the length of the patient’s hospital stay and recovery time.

One of the best just got better.
15 years experience and close cooperation with opinion leaders in Minimally Invasive Cardiac Surgery resulted in the development of our latest and most advanced generation of ValveGate™ MICS instruments... the all new ValveGate™PRO line!

Features:
- Ultra-lightweight and perfect balance
- Completely made from surgical stainless steel - without any plastic or aluminium components
- Full injection straight-flush cleaning concept
- Adjustable jaw and handle opening according users preference for less fatigue and time savings
- Scissors designed to cut even through hardest calcified tissues
- Needle Holders firmly grasp and drive even the largest needles
- Precise Anastomosis Suturing by finger turning and not by wrist bending
- New high precision ratchet
- Soft touch handles with elastic springs
- Ergonomic FAIRGRIP™ handles with large dimples
- Solid construction and optimized surfaces for maximum durability, wear and corrosion resistance
- Color coded handles
  (Gold= Needle Holders, Black= Scissors, Silver= Graspers, all others).
ValveGate™ PRO
**ValveGate™ PRO Scissors**

- **A** 38-7830  15° curved
- **B** 38-7832  20° curved, single action
- **C** 38-7831  Jameson-style, curved, with tenotomy tips
- **D** 38-7836  40° curved, single action
- **E** 38-7835  30° curved
- **F** 38-7840  70° curved
- **G** 38-7833  Robust Scissors 15° curved, 7 mm shaft
- **H** 38-7860  125° Potts-style, 3.4 mm shaft
- **I** 38-7862  45° Potts-style, 3.4 mm shaft

**ValveGate™ PRO Clip Applying Forceps**

- **J** 38-7460  small, for use with SLS/Vitalitec Clips
- **J 38-7462** medium, for use with SLS/Vitalitec Clips

5 mm shaft diameter, unless otherwise specified. Standard working length 25 cm/10" for minimally invasive valve surgery. For different length add "S", "C", "B" or "L" behind article number.

- **S** = 17 cm/6¾"
- **C** = 15 cm/6"
- **B** = 12 cm/5"
- **L** = 30 cm/12"
ValveGate™ PRO Needle Holders with ratchet

A 38-7800  TC straight jaw
B 38-7802  TC curved jaw
C 38-7805  TC Ryder jaw
D 38-7806  TC curved, mini jaw, fine 2.7 mm shaft
E 38-7807  TC angled up jaw

ValveGate™ PRO Dissecting Forceps

F 38-7828  Gemini-style, smooth, dilating action
G 38-7823  Leaflet Holding Forceps, with ratchet

ValveGate™ PRO Knot Pusher

H 38-7850  push to close
38-7851  push to open

5 mm shaft diameter, unless otherwise specified. Standard working length 25 cm/10" for minimally invasive valve surgery. For different length add "S", "C", "B" or "L" behind article number.

S = 17 cm/6¾"
C = 15 cm/6"
B = 12 cm/5"
L = 30 cm/12"
ValveGate™ PRO DeBakey Graspers

A  38-7820  1 x 2 AG, narrow, 1,5x11 mm
B  38-7821  1 x 2 AG, narrow, 1,5x14 mm, angled upwards
C  38-7822  1 x 2 AG, narrow, 1,5x14 mm, angled sidewards
D  38-7824  Resano jaw for valves
E  38-7825  1 x 2 AG, wide jaw, 2,8x11 mm
F  38-7826  2 x 3 AG, extrem wide, 4,8x14 mm soft with extra fine teeth
G  38-7827  1 x 2 AG, narrow, 1,5x11 mm, 3 mm malleable shaft

5 mm shaft diameter, unless otherwise specified. Standard working length 25 cm/10" for minimally invasive valve surgery. For different length add "S", "C", "B" or "L" behind article number.

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**ValveGate™ Suture Ruler**

(Chordae Tendinae Measuring and Knotting Device for expanded PTFE sutures)

03-5409  ValveGate™ Suture Ruler/
3-60 mm, 34 cm/13¾”

**ValveGate™ Knotting Device**

for chordal reconstruction with ePTFE sutures
03-5420

**Shibata™ Chordae System**

knotting device for facilitating chordal loop making
03-5425  15-26 mm
03-5425L  11-30 mm

**Adams-Yozu Suture Gage**

03-5432

**Adams-Yozu Knotting Caliper**

with weight holder
03-5430
ValveGate™
## ValveGate™ Accessories

<table>
<thead>
<tr>
<th></th>
<th>Code</th>
<th>Description</th>
<th>Length</th>
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<tbody>
<tr>
<td>A</td>
<td>34-7486</td>
<td>ValveGate™ Fine Nerve and Vessel Hook</td>
<td>35 cm/13¾”</td>
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<tr>
<td>B</td>
<td>34-7485</td>
<td>ValveGate™ Nerve and Vessel Hook</td>
<td>35 cm/13¾”</td>
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<td>C</td>
<td>34-7484</td>
<td>ValveGate™ Vessel Hook</td>
<td>35 cm/13¾”</td>
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<td>D</td>
<td>34-7475</td>
<td>ValveGate™ Suture Catcher fine, 1.8 mm</td>
<td>35.5 cm/14”</td>
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<td></td>
<td>34-7476</td>
<td>ValveGate™ Suture Catcher extra fine, 1.5mm</td>
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<tr>
<td>E</td>
<td>34-7480</td>
<td>ValveGate™ Magnetic Retriever</td>
<td>35 cm/13¾”</td>
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<tr>
<td>F</td>
<td>34-7471</td>
<td>ValveGate™ Scalpel Blade #11 Holder (without blades)</td>
<td>35 cm/13¾”</td>
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<td>16-2011</td>
<td>Scalpel Blades #11 (pack of 100, sterile)</td>
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<tr>
<td>G</td>
<td>34-7470</td>
<td>ValveGate™ Mini Scalpel Blade Holder (without blades)</td>
<td>37 cm/14½”</td>
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<td></td>
<td>16-2065</td>
<td>Mini Scalpel Blades (pack of 10, sterile)</td>
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<td>H</td>
<td>34-7465</td>
<td>ValveGate™ Valve Pusher</td>
<td>35 cm/13¾”</td>
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<td>I</td>
<td>34-7495</td>
<td>ValveGate™ Knot Pusher</td>
<td>34 cm/13¾”</td>
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<tr>
<td>J</td>
<td>34-7496</td>
<td>ValveGate™ Knot Pusher with disc</td>
<td>34 cm/13¾”</td>
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</table>
ValveGate™
ValveGate™ Accessories

18-0050   ValveGate™ Cardioplegia Needle   30.5 cm/12½”  
φ 2 mm (Bredschneider)

18-0051   ValveGate™ Cardioplegia Needle  
φ 3 mm (4:1)  30.5 cm/12½”

34-0960.AC   ValveGate™ Endoscope φ 5 mm 0° *  
30 cm/12”

34-0961.AC   ValveGate™ Endoscope φ 5 mm 30° *  
30 cm/12”

18-4530   Heavy Bullet Vent 14x56 mm
18-4540   Double Lumen Bullet Vent 14x50 mm
18-4520   Ross Ventricular Vent, Adult
18-4521   Ross Ventricular Vent, Child
18-4522   Ross Ventricular Vent, Infant

34-0855   Thoracic Trocar  
6 mm

34-7510   Flexible Trocar  
6 mm 70 mm

34-7511   Flexible Trocar  
6 mm 100 mm

34-0953   Automatic Trocar Sleeve with manual opening  
5.5 mm

34-0956   Trocar, pyramidal point  
5.5 mm

34-3400   Veress Insufflation Needle  
120 mm

34-0860   Adams-Yozu Introducer Trocar  
2.3 mm

* autoclavable, universal eyepiece for C-Mount adapters with adapters compatible for Storz/Wolf/ACMI-type lightcables
ValveGate™

- 34-7280
- 20-0378
- 34-7302
- 20-0351
- 34-7450
- 20-0352
ValveGate™ Accessories

34-7301   ValveGate™ Transthoracic Aortic Clamp   27 cm/10½”
100 mm 1 x 2 DeBakey slim jaws

34-7306   ValveGate™ Transthoracic Aortic Clamp   27 cm/10½”
100 mm 2 x 3 DeBakey wide jaws

34-7311   ValveGate™ Transthoracic Aortic Clamp   27 cm/10½”
100 mm 2 x 3 DeBakey wide jaws strongly curved

34-7303   ValveGate™ Transthoracic Aortic Clamp   25.5 cm/10”
75 mm 1 x 2 DeBakey slim jaws

34-7302   ValveGate™ Transthoracic Aortic Clamp   23 cm/9”
50 mm 1 x 2 DeBakey slim jaws

34-7450   ValveGate™ Aortic Valve Rongeur 3 mm straight   30 cm/12”

34-7451   ValveGate™ Aortic Valve Rongeur 3 mm 30°, upwards   30 cm/12”

20-0351   DeBakey Bulldog Clamp straight   9 cm/3½”

20-0352   DeBakey Bulldog Clamp straight   10.5 cm/4”

20-0378   Bulldog Clamp Applying Forceps   24 cm/9½”

34-7280   Endoscopic Bulldog Clamp Applier, angled   27 cm/10½”

34-7281   Endoscopic Bulldog Clamp Applier, straight   27 cm/10½”
ValveGate™ Holders

29-1380  ValveGate™ Set of 6 Mitral Blades
         (35x40/35x60/35x50/45x50/45x60/45x70 mm)
         with Holder and Introducer

29-1379  ValveGate™ Set of 6 Tricuspidal Blades
         (19x25.5/24.5x25.5/38x25.5/34.5x51/25.5x51/48x25.5 mm)
         with Holder and Introducer

29-1481G  Iron-Assistant™ Instrument Holder, extra long straight bar
29-1481  Iron-Assistant™ Instrument Holder, L-shaped bar
29-1481/I  ditto, insulated for use with HF-surgery
29-1482  Iron-Assistant™ Endoscope Holder, straight bar
29-1482/I  ditto, insulated for use with HF-surgery
ValveGate™

- 29-1395
- 29-1390
- 29-1397.06
- 30-0740
- 29-1390
**Coronary Instruments**

**ValveGate™ DeBakey Graspers**
- 29-1395: with straight arms, 36 mm x 60 mm tubular blades and turnable crossbar (detachable) for accessories
- 29-1390: with curved arms, 36 mm x 60 mm tubular blades with strong spreading bar and turnable crossbar (detachable) for accessories
- 29-1390.45: as above, but 36 mm x 45 mm blades
- 29-1390.80: as above, but 36 mm x 80 mm blades

**ValveGate™ Mini-Thoracotomy Retractor**
- 29-1396: with hinged arms, 2 x 2 exchangeable parallel blades 36 mm x 40 mm and 36 mm x 55 mm, turnable crossbar (detachable) for accessories*
- 29-1396.E2: as above, but 2 x 2 tubular blades 40 mm x 50 mm and 40 mm x 70 mm
- 29-1396.E3: as above, but 3 x 2 tubular blades 40 mm x 30 mm and 40 mm x 50 mm and 40 mm x 70 mm

**Recommended ValveGate™ Accessories:**
- 29-1397.06: ValveGate™ Suture Ring 6 mm with removable springs
- 29-1397.08: ValveGate™ Suture Ring 8 mm with removable springs
- 29-1395.TB: Extra turnable crossbar
- 29-1500.BH: Malleable Atrial Retractor 20 mm
- 29-1500.HS: Cooley Atrial Hook 20 mm curved basket
- 29-1501.HS: Cooley Atrial Hook 20 mm straight basket
- 29-1500.HS/D: Cooley Atrial Hook 20 mm curved basket, long shaft
- 29-1428: Fixation Clamp
- 29-1437: Multi-Purpose Spatula

**ValveGate™ Mini-Thoracotomy Retractor **
- 30-0740: Cone Retractor 14.5 cm/53/4” deep pattern
- 30-0546.16: Memory Malleable Spatula 16 mm 18 cm/7”
- 30-0546.19: Memory Malleable Spatula 19 mm 18 cm/7”
- 30-0546.24: Memory Malleable Spatula 24 mm 18 cm/7”

* shown with 29-1428 and 29-1500.HS (not included)

** also available with fenestrated blades. Add “M” behind article number.
ValveGate™ Soft Tissue Protector

The ValveGate™ Soft Tissue Protector for Minimally Invasive Valve Surgery is a sterile, single patient use wall access device consisting of 2 overlaid plastic rings that are interconnected by means of a silicone rubber membrane. The bottom ring is a flexible ring made with a shape memory alloy to be inserted in situ.

The special features are:
- clear and unimpeded access to surgical site in minimally invasive valve or bypass surgery, MIDCAB, V.A.T.S., transcatheter or transapical valve replacement a.o.
- protects wound edge and surrounding tissue
- usable with or without retractor
- can be used in combination with incision foil
- reduces risk of embolic fat particles on instruments, sutures and knot pushers
- improves visibility and exposure
- self-holding, for incisions from 6 cm to 9 cm (regular size) and from 3 cm to 5 cm (small size)
- very easy to insert in situ
- high flexibility
- latex-free silicone rubber

Art.-No. 29-1399 regular Size
Art.-No. 29-1399S small size

For easy placement simply push the flexible ring downwards as illustrated and insert it into the wound cavity. Then push the reversed portion carefully down as well and expand it. Remove it in the opposite way by inserting some fingers, grabbing a part of the flexible ring, and pulling it out carefully. Dispose after use.
ValveGate™ Containers and Trays

77-3620  ValveGate™ PRO Special Tray with integrated flushports, 2x6 instruments

77-3630  ValveGate™ PRO Cleaning Bridge for 6 instruments

77-3600  Convertible ValveGate™ Plastic Container System 464x190x70mm with mat in base and upper insert with tri-level silicone strips for up to 12 instruments

77-3605  Modular ValveGate™ Plastic Container System 4”, 502 x 239 x 102 mm double level assembly with mat in base and upper insert with silicone strips for up to 10 instruments

77-1119  Endoscope Wire-mesh tray 468 mm

77-1100  Wire-mesh trays with handles 480 x 258 x 50 mm, shown with 77-3605.IN

77-3605.IN  ValveGate™ Instrument holders only, pair
We are working in the three business fields „Cardio“, „Neuro“ and „Powered“. In all these fields we want to offer our valued clients a complete range of products and services. Our products are clearly described and illustrated in well-structured sales documents. A small selection of various catalogs we show you below.
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