

NEW

EDITION  
2017



ValveGate™ PRO



Efficient surgery. Less invasive.  
Optimum results.



2



1995

1999

2000

2003

2004

2007

# Evolution of ValveGate™ instruments





## ValveGate™ PRO

**Efficient surgery. Less invasive. Optimum results.**

### **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.

### **Celebrating 20 years of excellence in MICS.**

20 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!

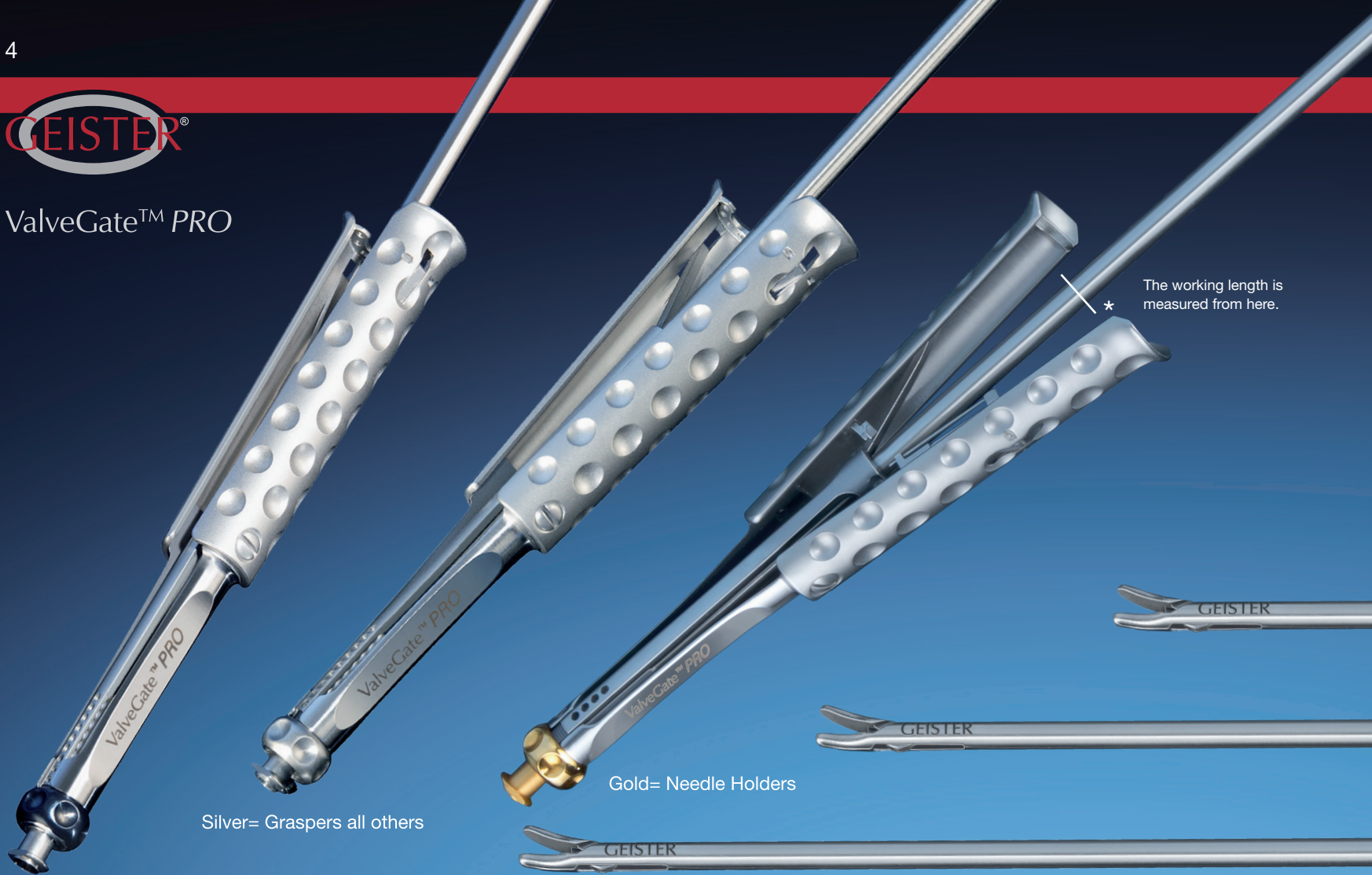
### **Features:**

- 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



The working length is measured from here.

\*

Gold= Needle Holders

Silver= Graspers all others

Black= Scissors



**\* B**  
120 mm  
working length

**\* C**  
150 mm  
working length

**\* S**  
170 mm  
working length

**\* Standard**  
250 mm  
working length

**\* L**  
300 mm  
working length

**\* XL**  
350 mm  
working length

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





ValveGate™ PRO



A

B



### ValveGate™ PRO Scissors

A	38-7830	15° curved
B	38-7831	Jameson Scissors, curved, tenotomy tips
C	38-7832	20° curved, single action,
D	38-7833	robust, 30° curved, 7 mm shaft
E	38-7835	30° curved
F	38-7836	40° curved, single action
G	38-7840	70° curved
H	38-7842	Ligature Scissors, 70° curved wave-cut
I	38-7860	Potts Scissors 125°, 3.4 mm shaft
J	38-7862	Potts Scissors 45°, 3.4 mm shaft
K	38-7863	Potts Scissors 125°, 5 mm shaft
L	38-7861	Potts Scissors 30°, heavy pattern

### ValveGate™ PRO Clip Applying Forceps

M	38-7460	small, for use with SLS/Vitalitec* Clips
	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 "B", "C", "S", "L" or "XL" behind article number.

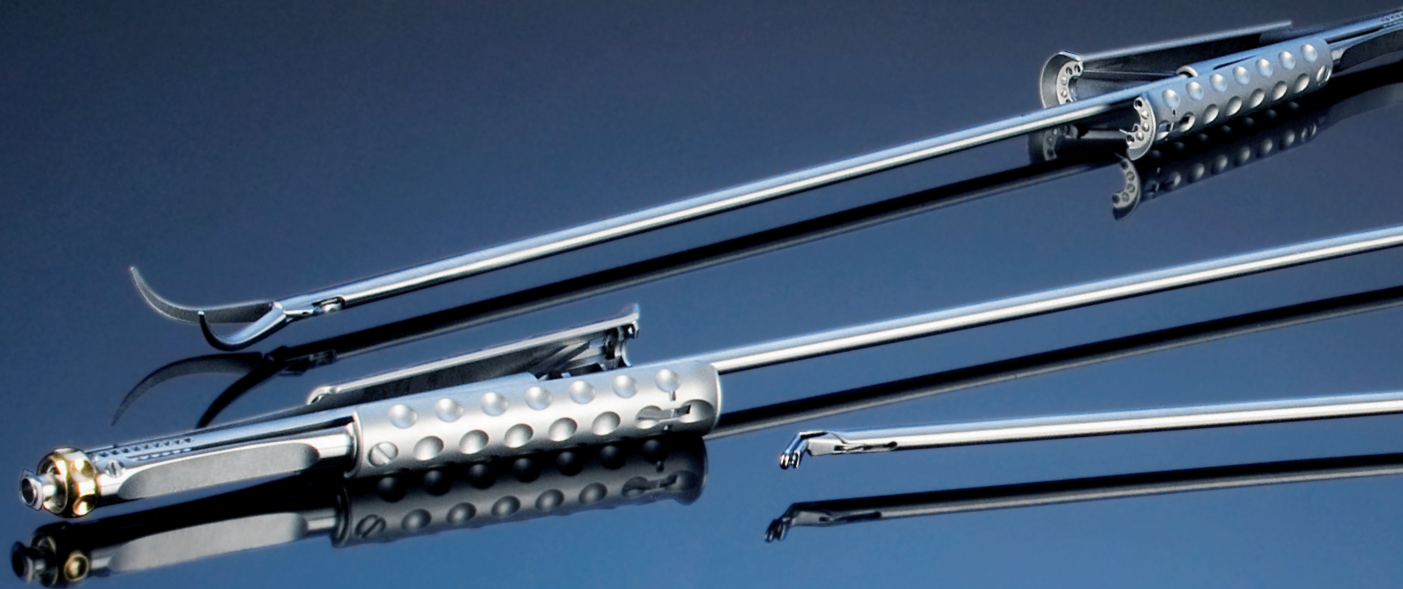
**B = 12 cm/5"   C = 15 cm/6"   S = 17 cm/6¾"   L = 30 cm/12"**  
**XL = 35 cm/14"**

\*Trademarks property of their respective trademark owner.





ValveGate™ PRO



A B C D E F G H I J K L M







#### Wet-Set for transport and storage for ValveGate™ Instruments

Keeps the distal end moist and facilitates the reprocessing. Protects the instrument tip during transport.

- 00-2250 Set: 3 tubes and caps (with hole)
- 00-2251 Set: 20 tubes and caps (with hole)
- 00-2252 Set: 20 tubes and caps (without hole)
- 00-2253 Set: 20 tubes and 10 caps without hole and 10 caps with hole



#### ValveGate™ PRO Needle Holders with ratchet

- |   |         |  |
|---|---------|--|
| A | 38-7799 | TC curved, Crile-Wood                                      |
| B | 38-7800 | TC straight  |
| C | 38-7802 | TC curved  |
| D | 38-7803 | TC curved, short Colvin jaw                                |
| E | 38-7804 | TC curved, del., Micro Crile-Wood, jaw for 5-0/6-0 needles |
| F | 38-7806 | Mini TC curved, 2.7 mm shaft                               |
| G | 38-7805 | TC Ryder straight  |
| H | 38-7807 | TC angled up   |

#### ValveGate™ PRO Dissecting Forceps

- |   |            |   |
|---|------------|---|
| I | 38-7823    | Leaflet Grasper, long 28 mm, with ratchet             |
| I | 38-7823.NC | Leaflet Grasper, long 28 mm, without ratchet          |
| J | 38-7828    | Gemini Dissecting Forceps, smooth dilating tips 25 mm |

#### ValveGate™ PRO Knot Pusher

- |   |         |               |
|---|---------|---------------|
| K | 38-7850 | push to close |
| L | 38-7851 | push to open  |

#### ValveGate™ PRO Mini IMA Holding Forceps

- |   |         |   |
|---|---------|---|
| M | 38-7878 | Jaw 0,8x7 mm, upwards, 1x2 teeth, Sapphire™, 3,4 mm shaft |
|---|---------|---|

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

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ValveGate™ PRO



A B



C



D



E



F



G



H



I

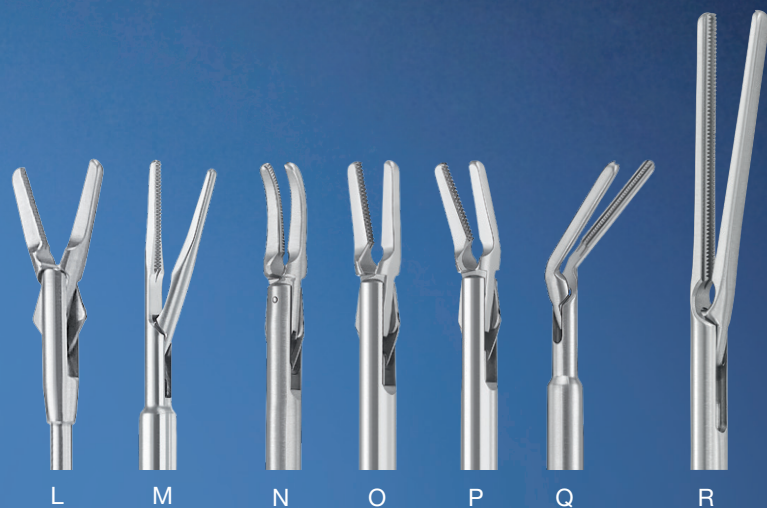


J



K





### ValveGate™ TC Graspers 2,7 mm shaft

- |   |         |            |
|---|---------|------------|
| A | 38-7935 | 10° angled |
| B | 38-7936 | 25° angled |
|   | 38-7934 | straight   |

### ValveGate™ PRO Graspers

- |   |         |  |
|---|---------|--|
| C | 38-7824 | Resano, strong, jaw for valves, straight                 |
| D | 38-7929 | Russian, jaw 6,8x5,3 mm                                  |
| E | 38-7567 | Lymph Node Grasper angled up, jaw 7 mm ovale, atraumatic |

### ValveGate™ PRO Gentle Graspers

- |   |         |   |
|---|---------|---|
| F | 38-7816 | extra wide jaw, straight, TC  |
| G | 38-7826 | extra wide jaw, straight, 2x3 teeth, 4,8x14 mm, with extra fine teeth |

### ValveGate™ PRO Graspers with DeBakey Jaws, 1x2 teeth

- |   |         |  |
|---|---------|--|
| H | 38-7820 | narrow, straight, 1.5x11 mm                              |
| I | 38-7821 | narrow, angled upwards, 1.5x14 mm                        |
| J | 38-7822 | narrow, angled sideways, 1.5x18 mm, vertically opening   |
| K | 38-7825 | wide jaw, 2.8x11 mm, straight                            |
| L | 38-7827 | delicate, 1.5x11 mm, 3 mm malleable shaft                |
| M | 38-7881 | narrow, 1.5x15 mm, straight                              |
| N | 38-7917 | narrow, 1.5x15 mm, slightly curved                       |
| O | 38-7918 | narrow, 1.5x15 mm, angled sideways 10°                   |
| P | 38-7919 | narrow, 1.5x15 mm, angled sideways 25°                   |
| Q | 38-7922 | narrow, angled sideways, 1.5x18 mm, horizontally opening |
| R | 38-7928 | long, 2,8x25 mm teeth, 40 mm jaw                         |

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

**B = 12 cm/5"   C = 15 cm/6"   S = 17 cm/6¾"   L = 30 cm/12"   XL = 35 cm/14"**



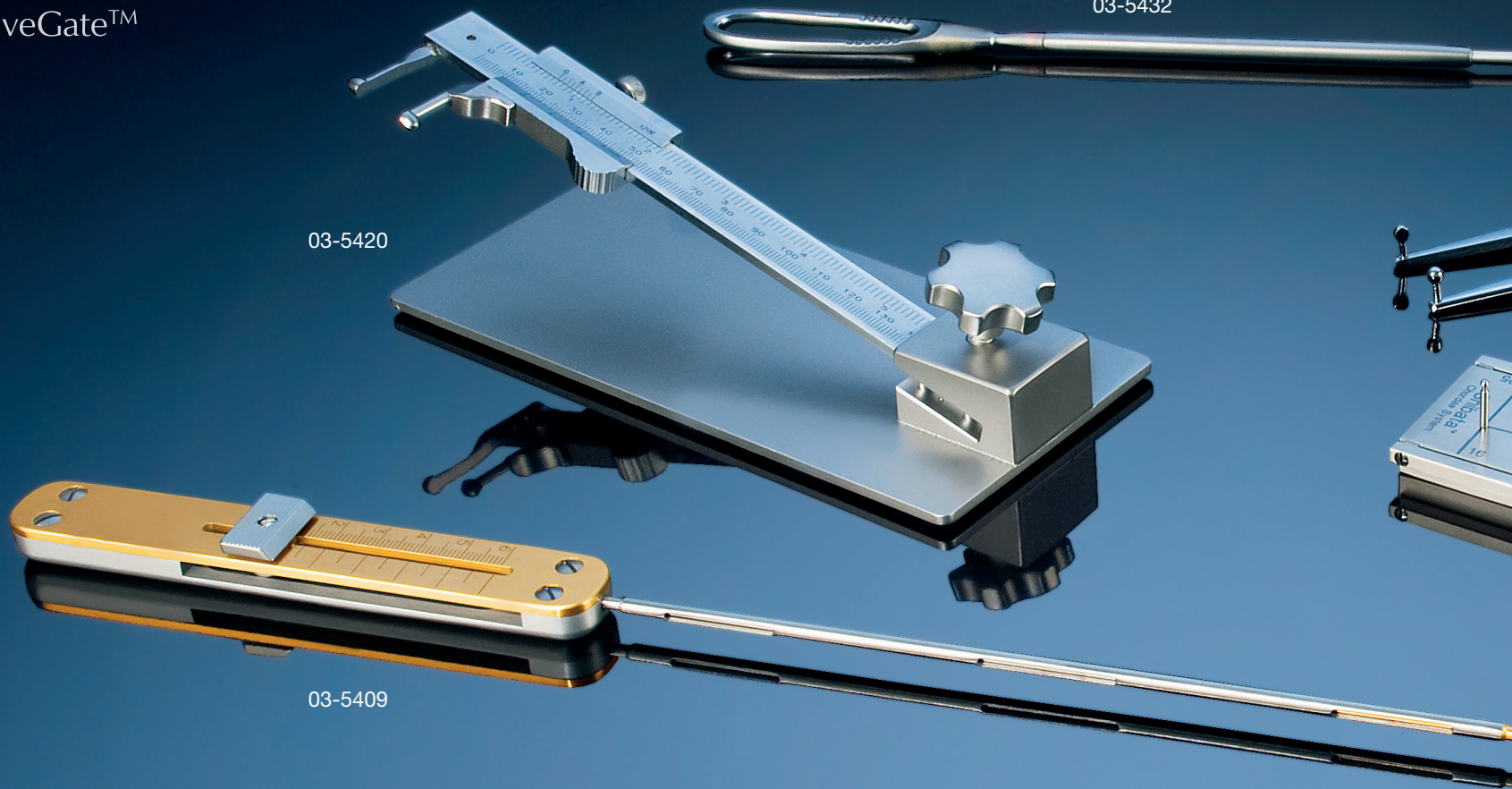


ValveGate™

03-5420

03-5432

03-5409



ValveGate™



03-5430



03-5425

**ValveGate™ Mohr Suture Ruler**

(Chordae Tendinae Measuring and Knotting  
Device for ePTFE sutures)

03-5409      ValveGate™ Suture Ruler  
3-60 mm, 35 cm/13¾"

**ValveGate™ Mohr 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 Gauge**

03-5432

**Adams-Yozu Knotting Caliper**

with weight holder

03-5430



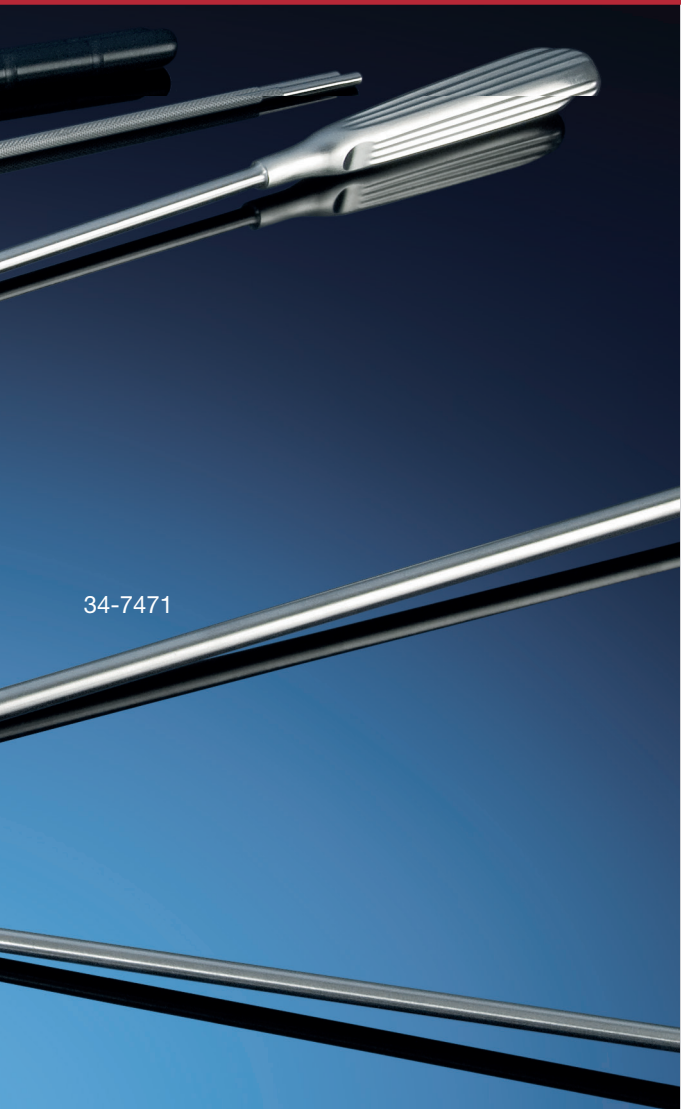


ValveGate™





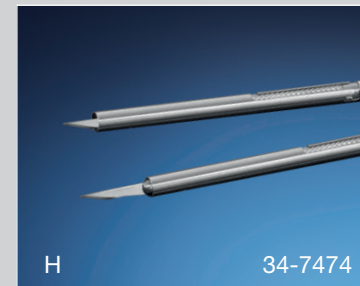
## ValveGate™ Accessories



34-7471



34-7493

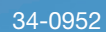
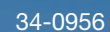
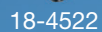
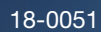
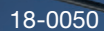
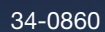


H

34-7474

A	34-7486	ValveGate™ Fine Nerve and Vessel Hook, ball point, 90°	35 cm/13¾"
	34-7487	ValveGate™ Fine Nerve and Vessel Hook, ball point, 70°	35 cm/13¾"
B	34-7485	ValveGate™ Nerve and Vessel Hook	35 cm/13¾"
C	34-7484	ValveGate™ Vessel Hook	35 cm/13¾"
D	34-7475	ValveGate™ Suture Catcher fine, 1.8 mm	35.5 cm/14"
	34-7476	ValveGate™ Suture Catcher extra fine, 1.5mm	35.5 cm/14"
E	34-7480	ValveGate™ Magnetic Retriever	35 cm/13¾"
F	34-7471	ValveGate™ Holder for Scalpel blades #11 (without blades)	35 cm/13¾"
	16-2011	Scalpel Blades #11 (pack of 100, sterile)	
G	34-7470	ValveGate™ Holder for Mini Blades (without blades)	37 cm/14½"
H	34-7474	ValveGate™ Protected Mini Blade Holder	37 cm/14½"
	16-2065	Mini Scalpel Blades #65 (pack of 10, sterile)	
I	34-7465	ValveGate™ Valve Pusher	35 cm/13¾"
J	34-7494	ValveGate™ Knot Pusher, both sided	35 cm/13¾"
K	34-7493	ValveGate™ Knot Pusher with blue silicone handle	31.5 cm/12½"
K	34-7495	ValveGate™ Knot Pusher	35 cm/13¾"
L	34-7496	ValveGate™ Knot Pusher with disc	35 cm/13¾"

ValveGate™





## ValveGate™ Endoscopes, Trocars, Sleeves



## Endoscopes

Art.No.	Diameter Working length	Direction of view:
34-0960.17	Ø 5.0 mm, 17,5 cm	0°
34-0961.17	Ø 5.0 mm, 17,5 cm	30°
34-0961.23	Ø 5.0 mm, 23 cm	30°
34-0960.AC	Ø 5.0 mm, 30 cm	0°
34-0961.AC	Ø 5.0 mm, 30 cm	30°
34-0962.18	Ø 10.0 mm, 18 cm	0°
34-0967.18	Ø 10.0 mm, 18 cm	30°
34-0962.23	Ø 10.0 mm, 23 cm	0°
34-0967.23	Ø 10.0 mm, 18 cm	30°
34-0962.AC	Ø 10.0 mm, 31,5 cm	0°
34-0967.AC	Ø 10.0 mm, 31,5 cm	30°
34-0962.35	Ø 10.0 mm, 35 cm	0°
34-0967.35	Ø 10.0 mm, 35 cm	30°
34-0962.43	Ø 10.0 mm, 43 cm	0°
34-0967.43	Ø 10.0 mm, 43 cm	30°

ACMI-, Wolf- and Storz-lightport adapter, standard eye-piece, autoclavable, S/N, single packed.

## ValveGate™ Flushing Needles

Art.No.	Diameter	Working length
18-0050	Ø 2.0 mm	305 mm / 12"
18-0050L	Ø 2.0 mm	340 mm / 13½"
18-0051	Ø 3.0 mm	305 mm / 12"

## Suction Tips

Art.No.	Description	Length of Basket	Tube i.d.	Size
18-4530	Vent - Bullet Heavy	40 mm	3/16"	Adult
18-4540	Vent - Bullet Double Lumen	42 mm	1/4"	
18-4520	Vent - Ross	33 mm	3/16"	Child
18-4521	Vent - Ross	23 mm	3/16"	
18-4522	Vent - Ross	15 mm	1/8"	Infant

## Thoracic Trocars with Sleeves

Art.No.		Diameter, Working length
34-0855	rigid	Ø 6 mm, 50 mm
34-0852	rigid	Ø 11 mm, 50 mm
34-0851	rigid	Ø 13 mm, 50 mm
34-7510	flexible	Ø 6 mm, 70 mm
34-7510.ST	flexible Spare Tubes, Pack of 5 pcs.	Ø 6 mm, 70 mm
34-7511	flexible	Ø 6 mm, 100 mm
34-7511.ST	flexible Spare Tubes, Pack of 5 pcs.	Ø 6 mm, 100 mm
34-7500	flexible	Ø 11 mm, 100 mm
34-7500.ST	flexible Spare Tubes, Pack of 5 pcs.	Ø 11 mm, 100 mm
34-7501	flexible	Ø 11 mm, 70 mm
34-7501.ST	flexible Spare Tubes, Pack of 5 pcs.	Ø 11 mm, 70 mm

34-0860 Adams-Yozu Introducer, blunt Ø 2.3 mm

## Trocars for Indroducer Sleeves, metal, smooth

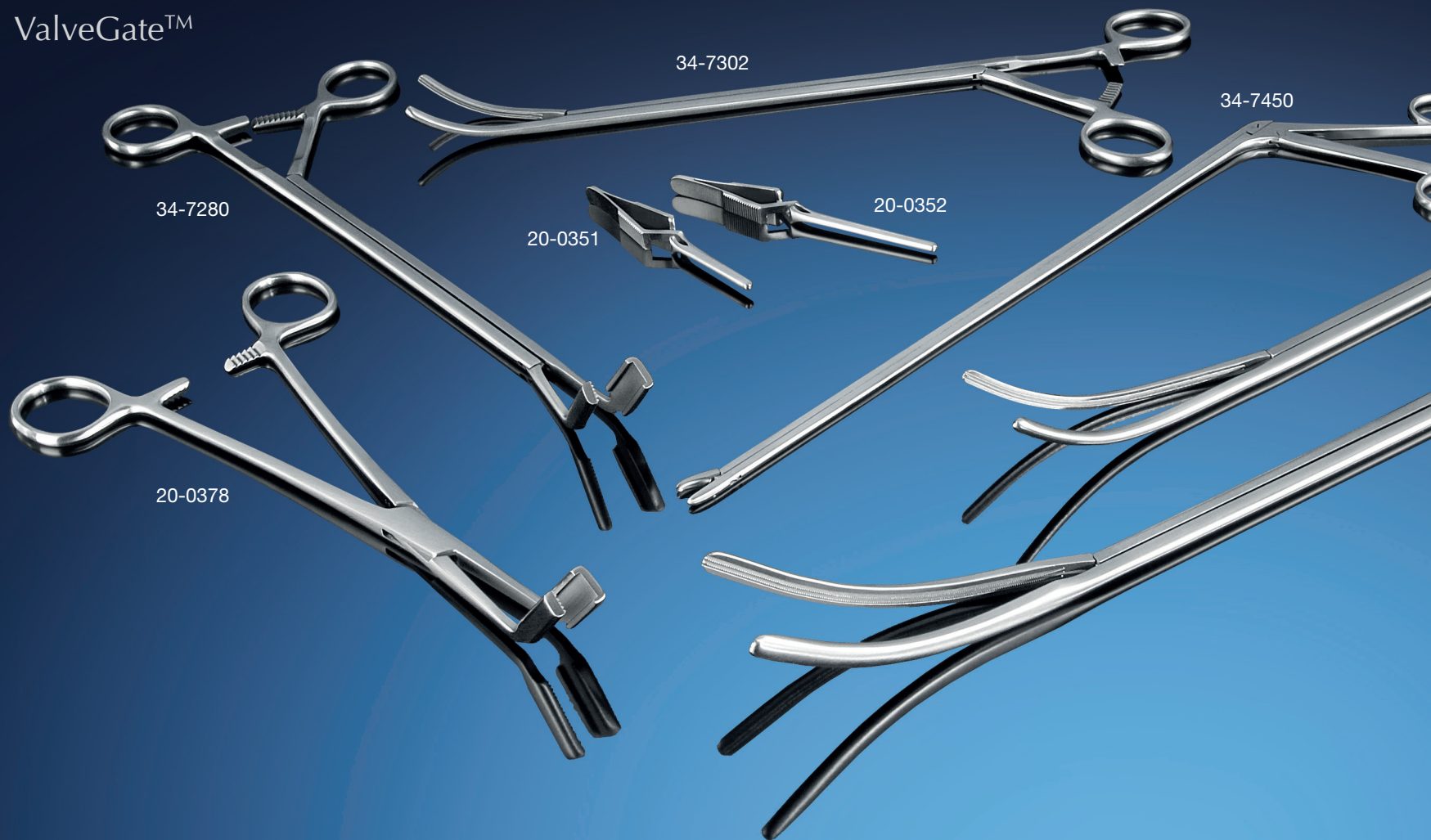
	Diameter
pyramidal point	
34-0956	Ø 5,5 mm
34-0903	Ø 10 mm
34-0923	Ø 11 mm
34-0925	Ø 13 mm
conical point	
34-0957	Ø 5,5 mm
34-0924	Ø 11 mm

## Indroducer Sleeves

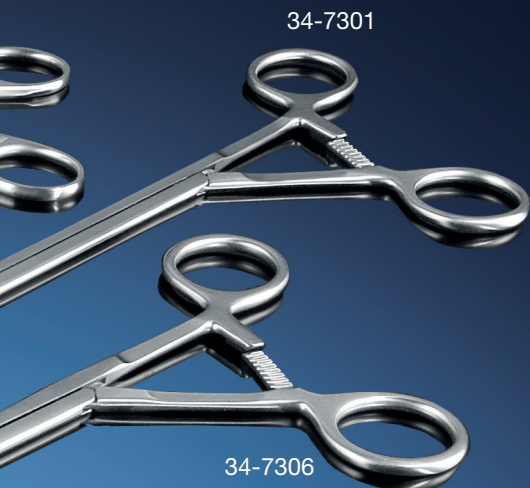
Art.No.		Diameter, Working length
34-0952	Metal shaft, smooth	Ø 5,5 mm, 103 mm
34-0952.PL	Plastic shaft, smooth	Ø 5,5 mm, 92 mm
34-0952.WC	White seal for Ø 5,5 mm	
34-0952.VV	Silicone valve, pack of 5 pieces, for Ø 5,5 mm	
34-0951	Metal shaft smooth	Ø 11 mm, 105 mm
34-0951.PL	Plastic shaft, smooth	Ø 11 mm, 97 mm
34-0951.WC	Blue seal for Ø 11 mm	
34-0950	Metal shaft smooth	Ø 13 mm, 102 mm
34-0950.PL	Plastic shaft, smooth	Ø 13 mm, 94 mm
34-0950.WC	Green seal for Ø 13 mm	
34-0951.VV	Silicone valve, pack of 5 pieces, for Ø 11 and Ø 13 mm	



ValveGate™






**ValveGate™ Transthoracic Occlusion Clamp with DeBakey Jaws, with ratchet, sliding shaft**

34-7301	100 mm (1x2) regular jaw, working length 29 cm	36 cm
34-7302	50 mm (1x2) regular jaw, working length 22 cm	32 cm
34-7303	75 mm (1x2) regular jaw, working length 24,5 cm	34 cm
34-7306	100 mm (2x3) wide jaw, working length 26,5 cm	36 cm
34-7311	100 mm (2x3) wide jaw, acutely curved, working length 26,5 cm	35 cm

**ValveGate™ Rongeurs** **K** black ceramic coating optional

**Wagner, detachable, strong modell**

A	40-2370.04	4mm, straight	20cm
B	40-2371.04	4mm, 50° cutting upward	20cm
C	40-2371.04D	4mm, 50° cutting down	20cm
A	40-2372.04	4mm, straight	30cm
B	40-2373.04	4mm, 50° cutting upward	30cm
C	40-2373.04D	4mm, 50° cutting down	30cm

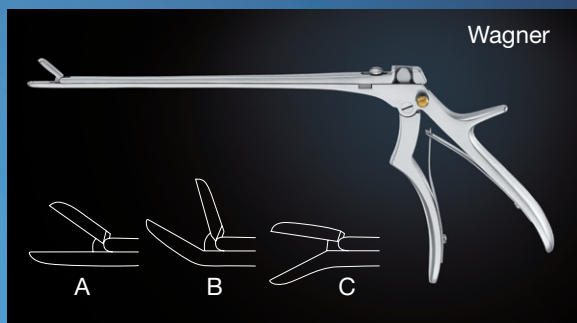
**ValveGate™ Valve Rongeur/Biopsy Forceps**

34-7450	3mm, straight	30 cm
34-7450.Z	3mm, straight, detachable	30 cm
34-7451	3mm, 30° upwards	30 cm
34-7451.Z	3mm, 30° upwards, detachable	30 cm

**ValveGate™ Bulldog Clamps and Applying Forceps**

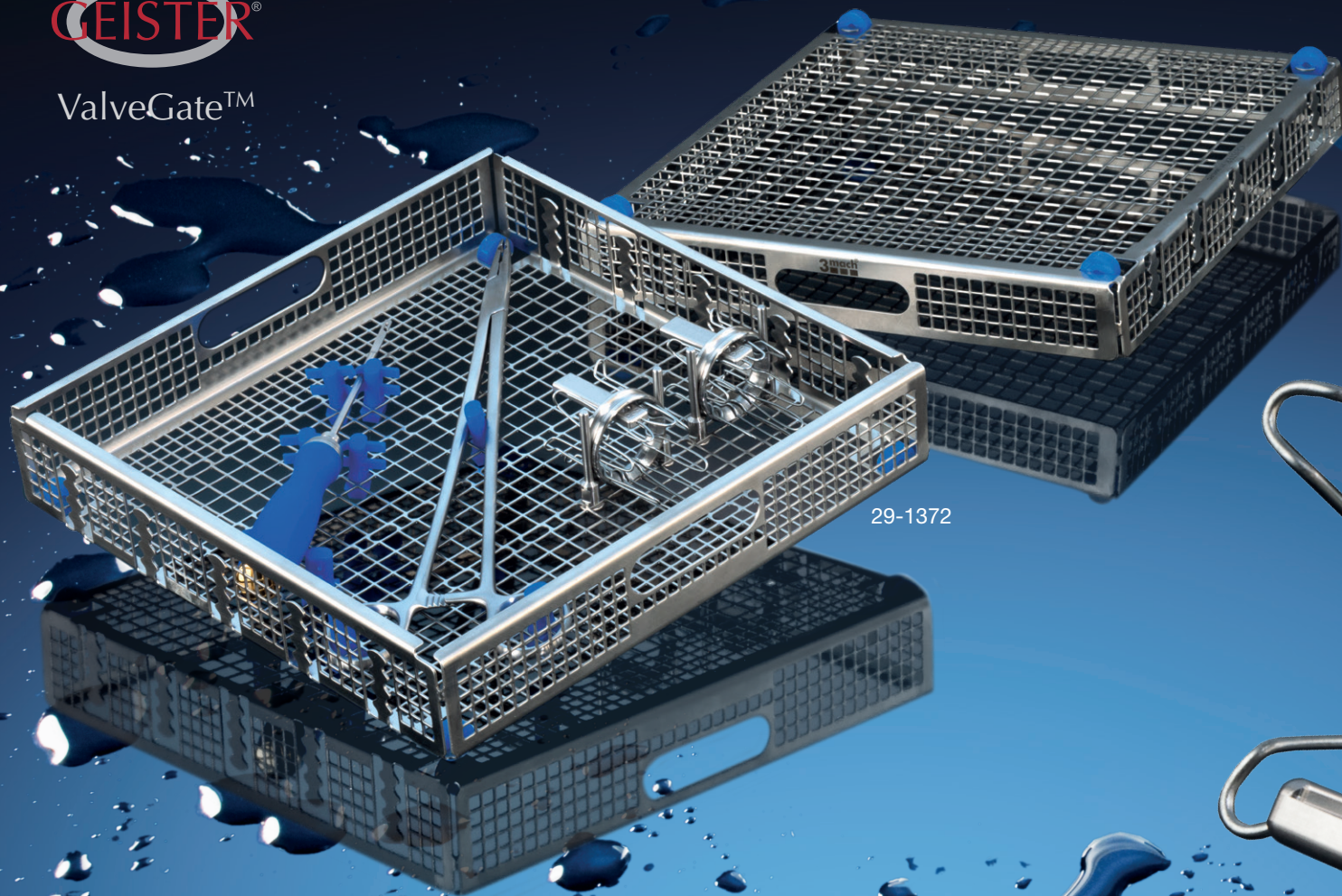
20-0351	Bulldog Clamp with DeBakey Jaws, straight	9 cm/3½"
20-0352	Bulldog Clamp with DeBakey Jaws, straight	10.5 cm/4"
20-0378	Bulldog Clamp Applying Forceps, jaw 45° angled up	24 cm/9½"
34-7280	Endoscopic Bulldog Clamp Applying Forceps, angled	31 cm/12¼"
34-7281	Endoscopic Bulldog Clamp Applying Forceps, straight	31 cm/12¼"

**K** Please add "K" behind catalog reference if black ceramic coating is desired.





ValveGate™



29-1372







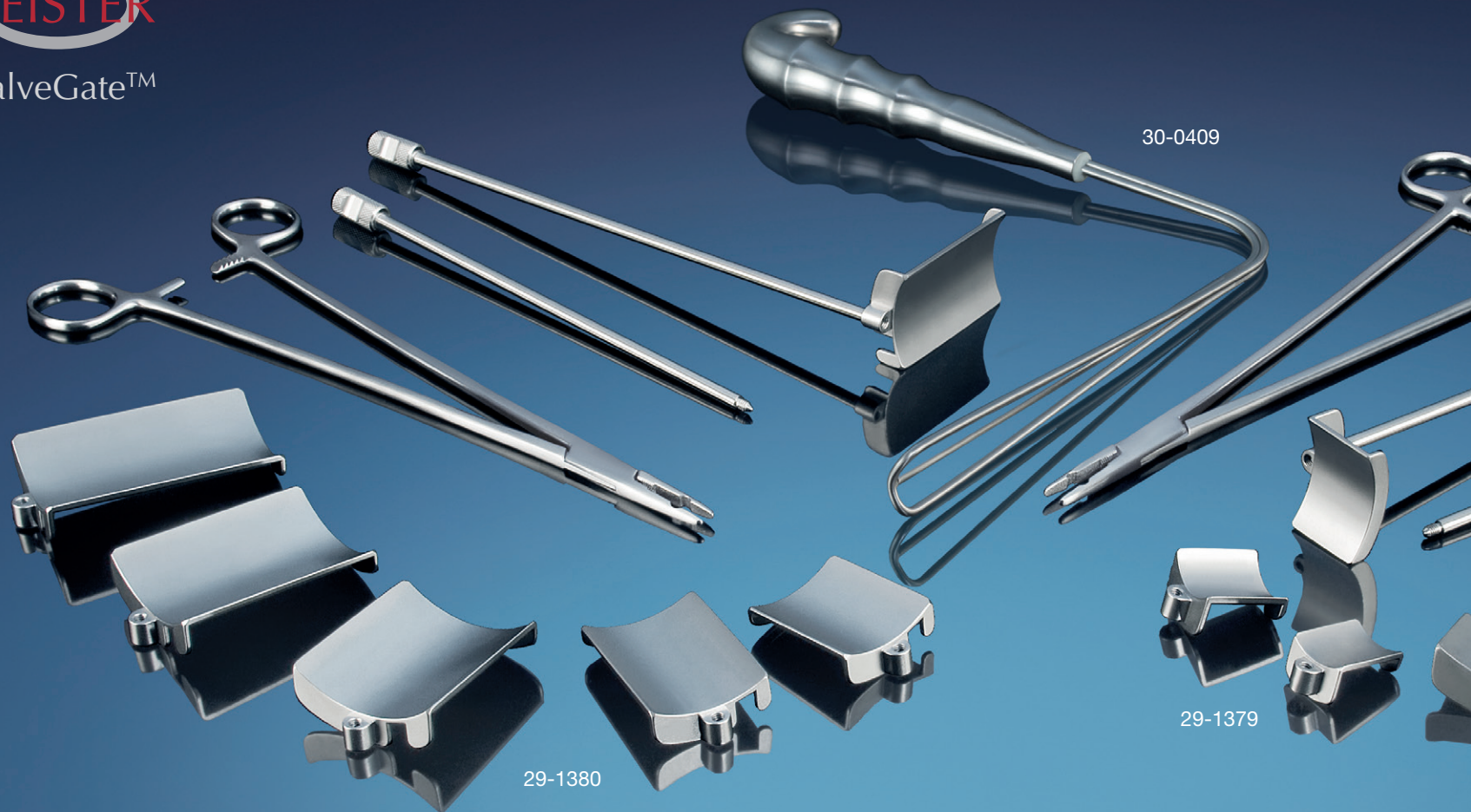
### FlexCrown™

- 29-1372 FlexCrown™ Retractor Set in tray consisting of:
- 29-1375 FlexCrown™ Mitral Spring Retractor\*
- 29-1375.S FlexCrown™ Mitral Spring Retractor, small\*
- 29-1373 FlexCrown™ Suture Catcher
- 29-1374 FlexCrown™ Introduction Forceps
- 77-3645.FC Medium multisystem-basket container with mounts for FlexCrown™ with lid, 240 x 240 x 45 mm

\*The FlexCrown™ Mitral Spring Retractor is reusable for a maximum of 100 cases.



ValveGate™



30-0409

29-1380

29-1379



**ValveGate™ Set of 6 Tricuspidal Blades**

29-1379 consisting of

Art.-No.	qty.		length x width mm
29-1379.1	1	Tricuspidal Blade with slot	25,5 x 19
29-1379.2	1	Tricuspidal Blade with slot	25,5 x 24,5
29-1379.3	1	Tricuspidal Blade with slot	25,5 x 38
29-1379.4	1	Tricuspidal Blade with slot	38,5 x 34,5
29-1379.5	1	Tricuspidal Blade with slot	51 x 25,5
29-1379.6	1	Tricuspidal Blade with slot	25,5 x 48
29-1379.STK	1	Holding Road short	
29-1379.STL	1	Holding Road long	
29-1379.HZ	1	Introducing Forceps	

**ValveGate™ Set of 6 Mitral Blades**

29-1380 consisting of

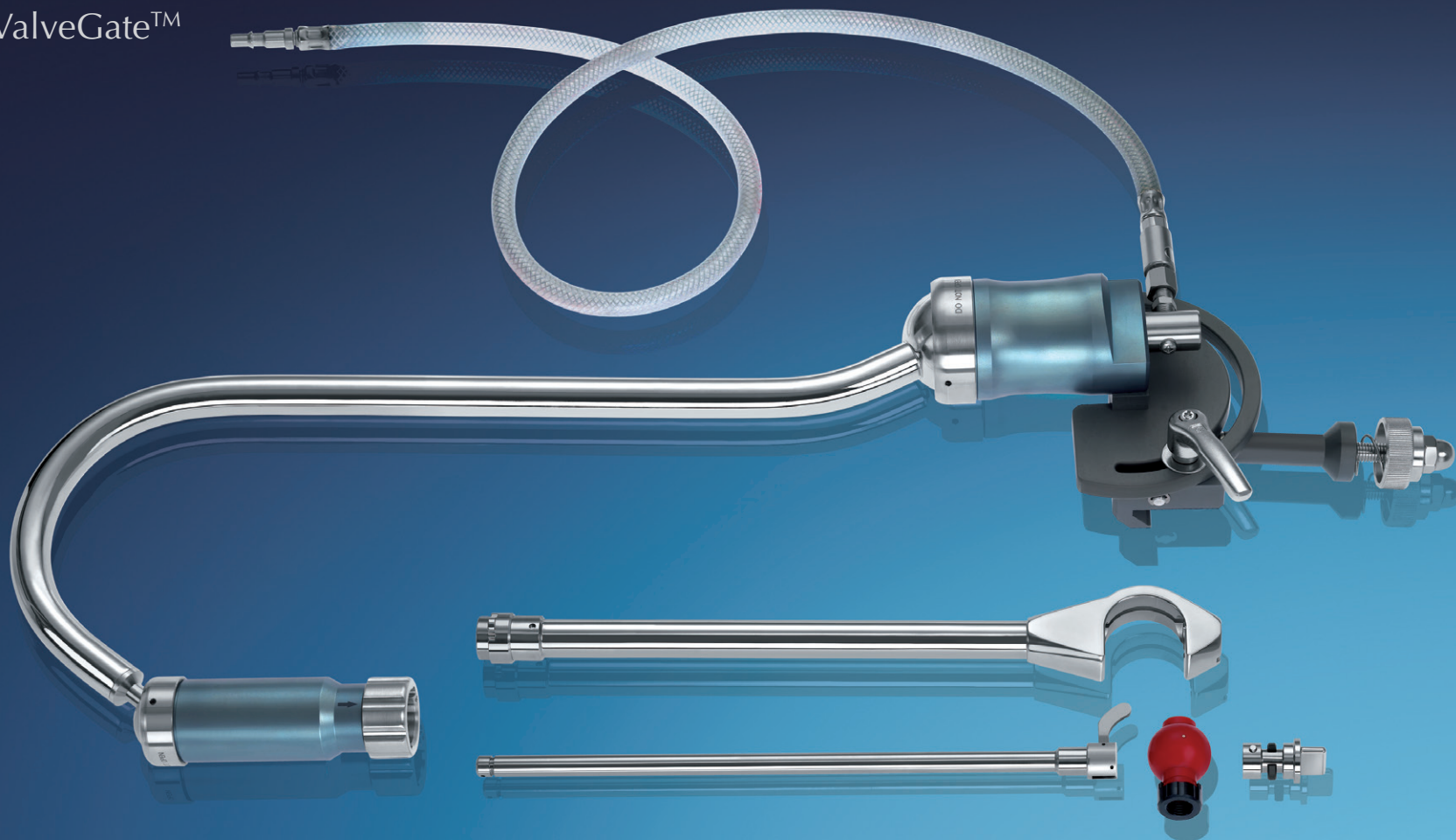
Art.-No.	qty.		length x width mm
29-1380.1	1	Mitral Blade with slot	40 x 35
29-1380.2	1	Mitral Blade with slot	60 x 35
29-1380.3	1	Mitral Blade with slot	50 x 35
29-1380.4	1	Mitral Blade with slot	50 x 45
29-1380.5	1	Mitral Blade with slot	60 x 45
29-1380.6	1	Mitral Blade with slot	70 x 45
29-1380.STK	1	Holding Road short	
29-1380.STL	1	Holding Road long	
29-1380.HZ	1	Introducing Forceps	

**Hand-Held Deep Atrial Retractor**

30-0409 working length 240 mm, 25 mm width



ValveGate™





**29-5000****Iron-Assistant™ Pneumatic Endoscope Holder**

for direct connection with the compressed air supply in the OR (working pressure 5 bar up to 7 bar). Enables instantaneous and unlimited one-hand manipulation of an endoscope or tube shaft instrument within the operating field followed by total steadiness and stability under load once in the „locked“ position. Easy handling and highest reliability due to the one-hand concept with only 3 hinges and the use of titanium components for weight reduction. The pneumatic arm can be easily attached to the OR table rail and is autoclavable completely or partially (if draping is preferred) for quick sterile set-up.



77-3623



77-6162.01

**Large special Trays for Iron-Assistant™**

77-3623	536 x 240 x 85 mm, with lid, for 29-1481, 29-1481/I, 29-1482, 29-1482/I
77-6162.01	535 x 340 x 95 mm for 29-1481G
77-6162.01LD	Lid for 77-6162.01
77-6164	644 x 249 x 140 mm, with lid, for Pneumatic 29-5000



29-1808

quick connect

29-1800

29-1483

29-1481G

29-1481

29-1804





**Iron Assistant™**

- 29-1481G Instrument Holder, extra long straight bar
- 29-1481 Instrument Holder, L-shaped bar
- 29-1481/I ditto, insulated for use with HF-surgery
- 29-1482 Endoscope Holder, straight bar
- 29-1482/I ditto, insulated for use with HF-surgery
- 29-1482L Endoscope Holder L-shaped bar
- 29-1482L/I ditto, insulated for use with HF-surgery
- 29-1483 Instrument Holder, L-shaped bar, double arm  
(Left lateral LVAD implantation)

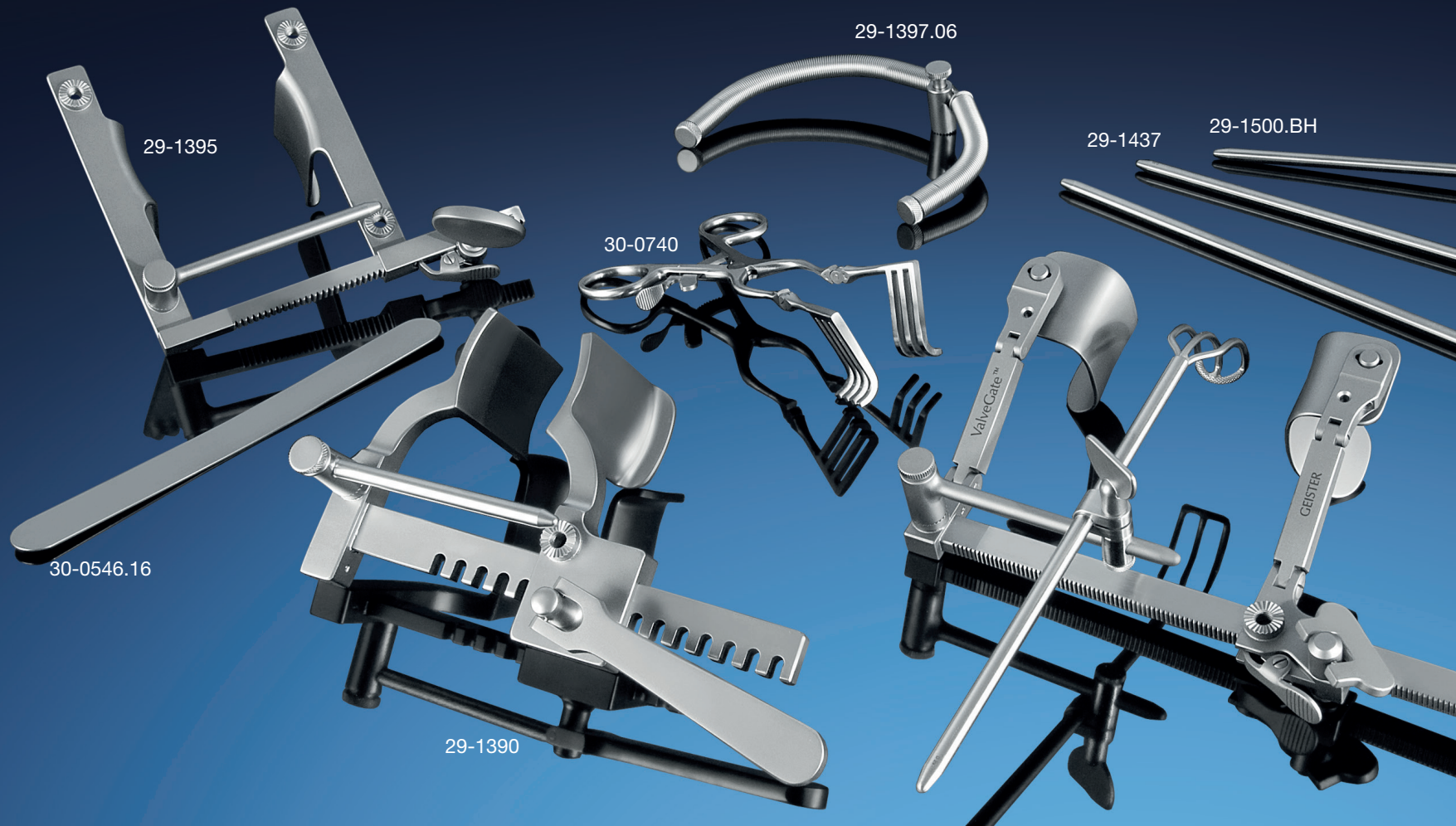
**Iron Assistant™ with quick connect**

- 29-1800 Holder, 360° rotatable
- 29-1804 Table clamp, heavy duty
- 29-1808 Instrument Clamp
- 29-1809 Endoscope Clamp

Suitable Trays see page 25



ValveGate™



29-1395

29-1397.06

29-1437

29-1500.BH

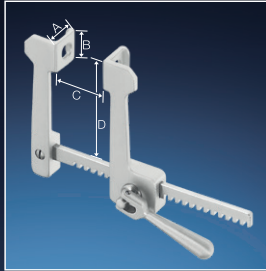
30-0740

30-0546.16

29-1390



## ValveGate™ Mini-Thoracotomy Retractor



29-1500.HS



29-1396

**Retractor complete including turnable crossbar (detachable) for accessories**

Art.-No.	description	A	B	C	D
29-1395	straight arms, tubular blades	60 mm	40 mm	90 mm	120 mm
29-1390	curved arms, tubular blades, with strong spreading bar	60 mm	40 mm	120 mm	75 mm
29-1390.45	curved arms, tubular blades, with strong spreading bar	45 mm	40 mm	90 mm	75 mm
29-1390.80	curved arms, tubular blades, with strong spreading bar	80 mm	40 mm	120 mm	75 mm
<b>with hinged arms, exchangeable blades</b>		<b>Blade Pair</b>			
29-1396	with 2 x 2 parallel blades*	29-1396.40	35 mm	35 mm	165 mm 100 mm
		29-1396.50	50 mm	35 mm	
29-1396E2	with 2 x 2 tubular blades**	29-1396E.50	50 mm	40 mm	165 mm 100 mm
		29-1396E.70	70 mm	40 mm	
29-1396E3	with 3 x 2 tubular blades**	29-1396E.30	30 mm	40 mm	165 mm 100 mm
		29-1396E.50	50 mm	40 mm	
		29-1396E.70	70 mm	40 mm	

**Accessories - Recommended ValveGate™**

Art.-No.	description	length, width
29-1397.06	Suture Ring with removable springs, detachable	Ø 6 mm
29-1397.08	Suture Ring with removable springs, detachable	Ø 8 mm
29-1397.06FH	Spring Stretchers (2/set) for Suture Rings 29-1397.06 and 29-1397.08	
29-1395.TB	Extra turnable crossbar	

**Accessories - Atrial Hooks with 6 mm Ø rod**

29-1500.BH	malleable	25 cm, 20 mm
29-1500.HS	Cooley, rigid, curved basket	23 cm, 20 mm
29-1501.HS	Cooley, rigid, straight basket	25 cm, 20 mm
29-1500.HS/D	Cooley, rigid, curved basket, long shaft	31cm, 20 mm
29-1428	Fixation Clamp for atrial hooks	Ø 6 mm
29-1437	Multi-Purpose Spatula	29 cm, 20 mm
10-8000	Blade Changing Forceps (is including in 29-1396, 29-1396E2, 29-1396E3)	

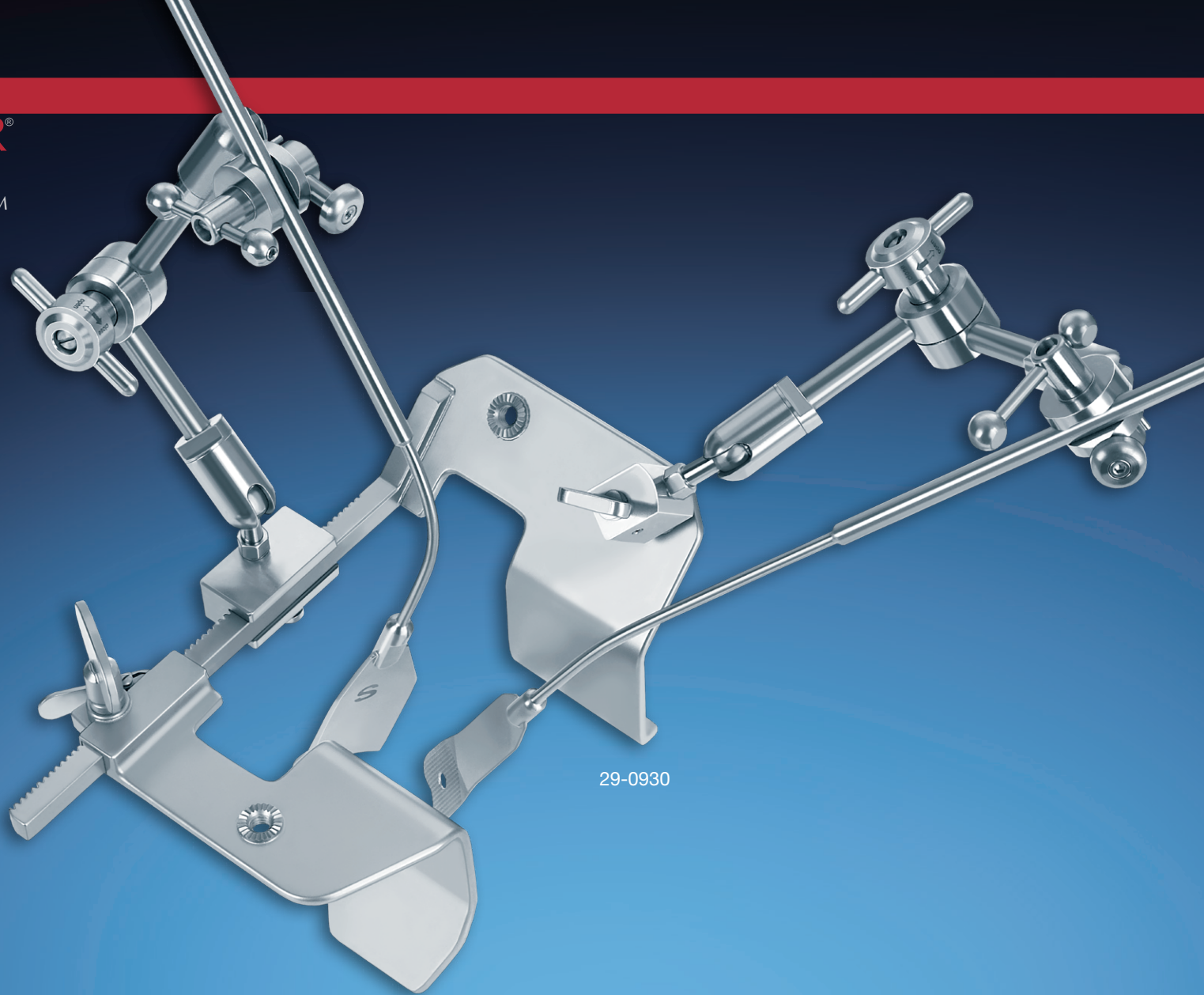
**Additional Accessories**

30-0740	Cone Retractor, deep pattern	14,5 cm / 5 3/4"
30-0546.16	Memory malleable Spatula	18 cm / 7", 16 mm
30-0546.19	Memory malleable Spatula	18 cm / 7", 19 mm
30-0546.24	Memory malleable Spatula	18 cm / 7", 24 mm
30-0547.20	Memory malleable Spatula	20 cm / 8", 20 mm

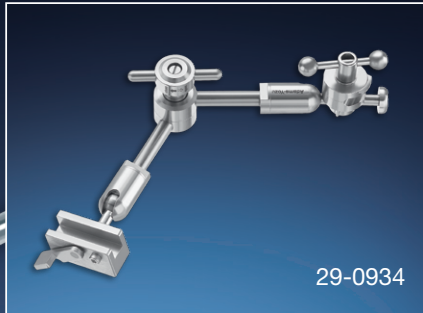
\* shown with 29-1428 and 29-1500.HS (not included) \*\* also available with fenestrated blades. Add "M" behind article number.



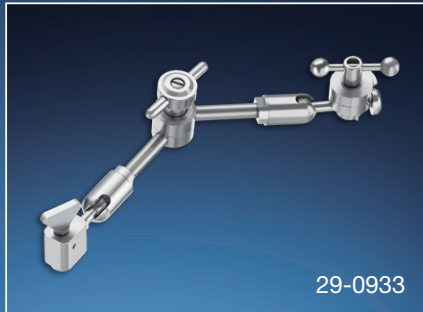
ValveGate™



29-0930



29-0934



29-0933



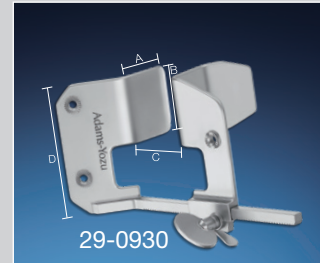
29-0935



29-0937.35



29-0938



29-0930

**Adams-Yozu Retractor**

Art.-No.	description	A	B	C	D
29-0930	fix blade	55 mm	50 mm	100 mm	95 mm
	exchangeable blade	65 mm	50 mm		
<b>small version</b>					
29-0929	fix blade	45 mm	40 mm	100 mm	95 mm
	exchangeable blade	55 mm	40 mm		

**Accessories**

Art.-No.	description
29-0933	Adams-Yozu Mini Arm with M6 screw connector
29-0934	Adams-Yozu Mini Arm with quick connector for spreading bar
29-0935	Attachment and Extension blade

**Depressor blade malleable****total length**

29-0937.18	XXS, Pédatrie	46 cm	85 mm	18 mm
29-0937.23	XS	44 cm	70 mm	23 mm
29-0937.28	S	44 cm	70 mm	28 mm
29-0937.35	M	44 cm	70 mm	35 mm
29-0937.45	L	44 cm	70 mm	45 mm
29-0937.45L	XL	47 cm	90 mm	45 mm

**Spatula malleable**

29-0938		36 cm	70 mm	20 mm
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ValveGate™





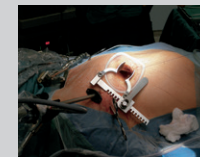
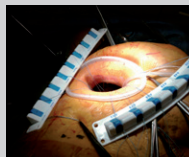
### ValveGate™ Soft Tissue Protector

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	120 x 100 mm
Art.-No. 29-1399M	medium size	100 x 100 mm
Art.-No. 29-1399S	small size	70 x 70 mm

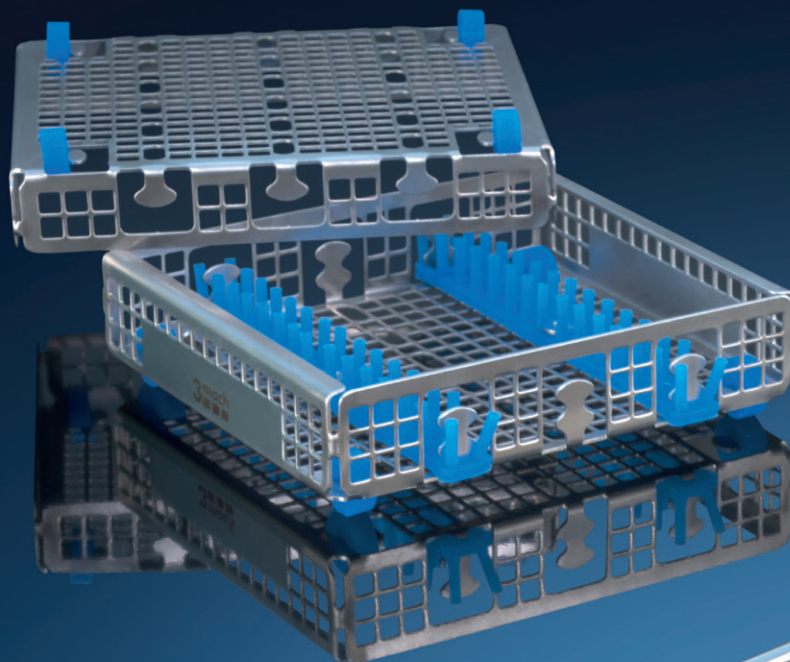


For easy placement simply push the flexible ring downwards as illustrated and insert it into the wound cavity. Then push the reversed portion carefully down as well and expand it. Remove it in the opposite way by inserting some fingers, grabbing a part of the flexible ring, and pulling it out carefully.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



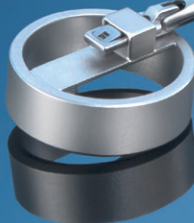


GEISTER®  
ValveGate™



77-3641

03-5465.33



03-5465.31



03-5465.29



03-5465.27



03-5465.25





**ValveGate™ Valve Sizer**

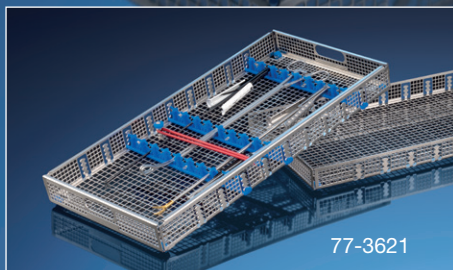
<b>03-5465.00</b>	<b>Valve Sizers complete consisting of :</b>
<b>Art.-No.</b>	<b>description</b>
03-5465	Valve Sizer holder without sizers
03-5465.25	Valve Sizer #25
03-5465.27	Valve sizer #27
03-5465.29	Valve Sizer #29
03-5465.31	Valve Sizer #31
03-5465.33	Valve Sizer #33
77-3641	Mini multisystem-basket container with lid, with variable mount, 126 x 14 x 39 mm



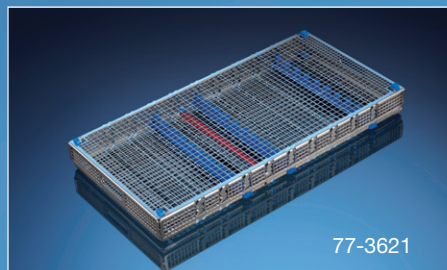


ValveGate™

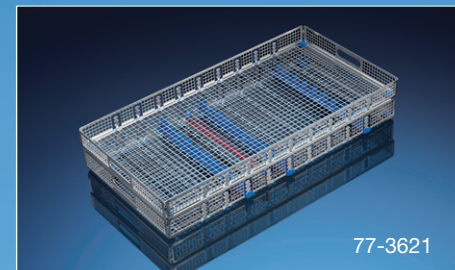
77-3620



77-3621



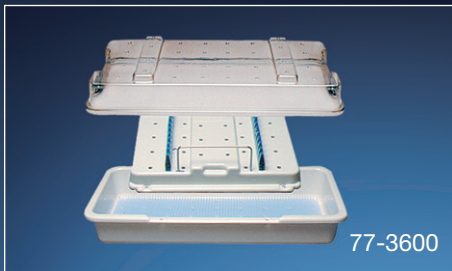
77-3621



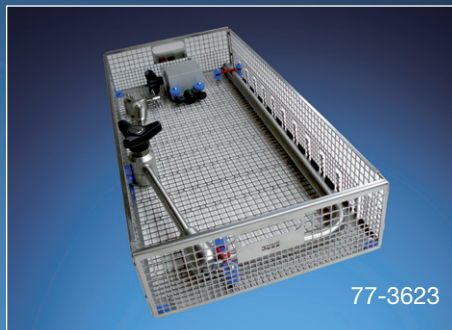
77-3621



## System Trays



77-3600



77-3623



00-3800

- 77-3620 ValveGate™ PRO System Tray basket container with filter**  
Special Tray DIN with filter to connect 8 instruments  
480x240x45 mm, with lid
- 77-3621 ValveGate™ PRO System Tray basket container**  
Special Tray DIN with variable bracket and mounts  
480x240x45 mm, with lid
- 77-3600 Plastic Speciality Containers**  
Convertible ValveGate™ & Laparoscopy, Base w. mat,  
removable insert, 478 x 203x130 mm, clear lid
- 77-3623 ValveGate™ PRO System Tray**  
large special Tray for Iron-Assistant™  
(29-1481, 29-1481/I, 29-1482, 29-1482/I)  
536 x 240 x 85 mm, with lid
- 00-3800 Charly ValveGate Trainer**  
with USB-camera and -light

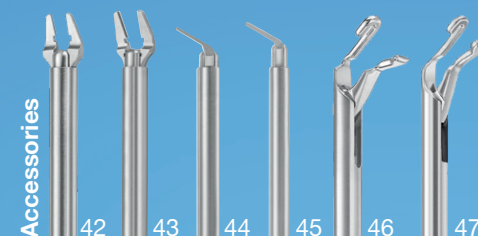
Suitable Boxes and  
Accessories see special catalog  
"Trays and Containers"

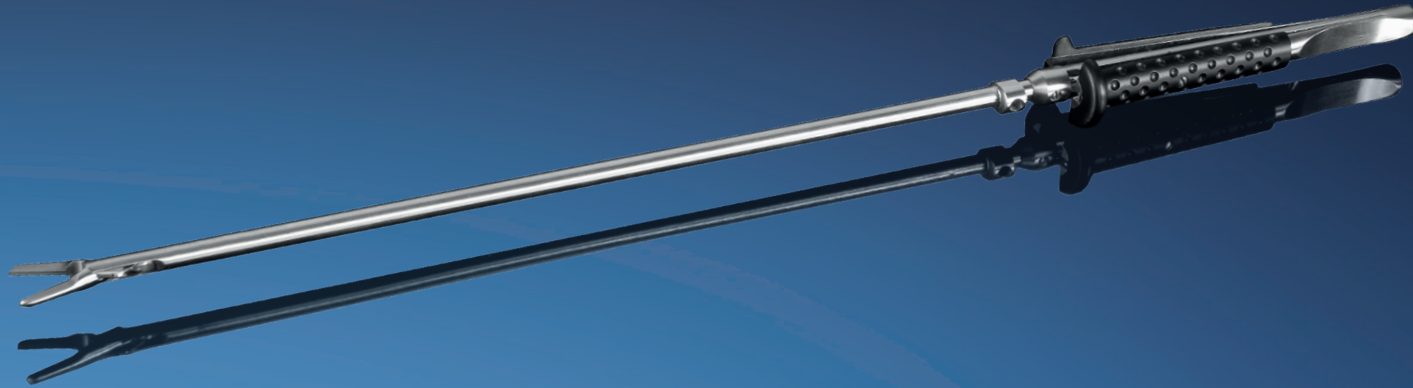






All models also available with  
**ValveGate™ classic line** handle.





### Scissors

Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.
1	34-7830	3	34-7832	5	34-7835	7	34-7840	9	34-7860	11	34-7958
2	34-7831	4	34-7833	6	34-7836	8	34-7842	10	34-7862	12	34-7861

### Graspers

Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.
13	34-7816	15	34-7821	17	34-7824	19	34-7826	21	34-7875S	23	34-7877S	25	34-7917
14	34-7820	16	34-7822	18	34-7825	20	34-7827	22	34-7876S	24	34-7881	26	34-7918
										27	34-7919	28	34-7929

### Needle Holders

Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.	Fig.	Art.-No.
29	34-7799	31	34-7802	33	34-7804	35	34-7805	37	34-7808S
30	34-7800	32	34-7803	34	34-7806	36	34-7807	38	34-7952

### Dissecting Forceps

Fig.	Art.-No.	Fig.	Art.-No.
39	34-7823	41	34-7878
40	34-7828		

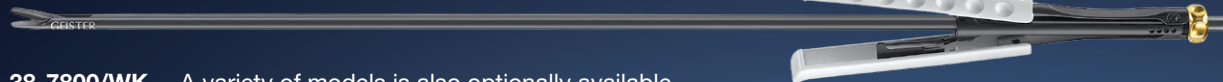
### Accessories

Fig.	Art.-No.	Fig.	Art.-No.
42	34-7460	44	34-7850
43	34-7462	45	34-7851



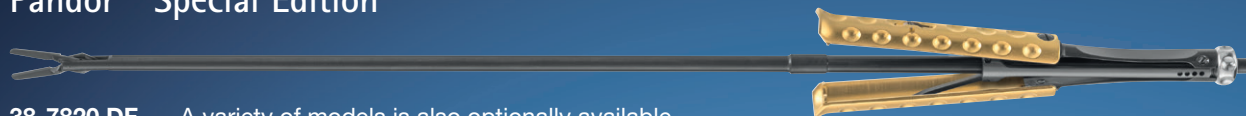
## REMARKABLE

### Black and White Special Edition



**38-7800/WK** A variety of models is also optionally available in a new design of Black & White Special Edition (extra charge applies), please add "/WK" behind the item-number for ordering.

### Pandor™ Special Edition



**38-7820.DF** A variety of models is also optionally available in the attractive PANDOR™ Black & Gold Edition (extra charge applies), please add ".DF" behind the item-number for ordering.

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