

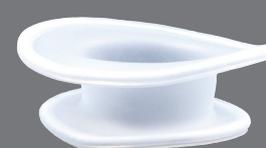
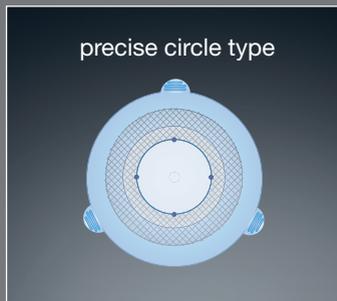


*Даже МЕНЬШЕ может быть ЛУЧШЕ.*

*Системы доступа для мини инвазивной хирургии.*







The GEISTER® LAPPROTECTOR is a surgical wound retractor/protector made from a silicon rubber membrane with a flexible shape-memory frame. With the optional GEISTER® LAPPROTECTOR E-Z ACCESS silicone rubber cap a tight seal can be created for LESS single port laparoscopic surgery.

As the GEISTER® LAPPROTECTOR E-Z ACCESS device has no fixed channel, surgeons can select the best trocar placement to maintain maximum trocar separation for each surgery.

A typical placement for the rotatable devices would be for example through a single 25 mm umbilical incision with the scope trocar being introduced at the caudal side of the device center and two other trocars for working instruments inserted through both sides of the device while another straight grasper could be directly inserted into the peritoneal cavity through the device for cephalad retraction of the gallbladder.

Instrument changes or trocar exchanges can be performed during the surgery easily and frequently without air leakage and affecting the seal. The removable cap also allows for a safe and quick retrieval of the gallbladder with pneumoperitoneum easily restorable by recapping the device.







### Устройство доступа LapProtector

Стерильное, одноразового применения, без латексное, уп. 2 шт.

<b>37-0002</b>	D(внеш) 50x150мм, D(внутр) 80мм, глуб. 20мм	<b>37-0016</b>	sterile, single use, latex-free, pack of 2 pcs., OD 50x40 mm, ID 25 mm, 20 mm depth
<b>37-0004</b>	D(внеш) 120x100мм, D(внутр) 60мм, глуб. 20мм	<b>37-0016.15</b>	sterile, single use, latex-free, pack of 2 pcs., OD 50x40 mm, ID 15 mm, 20 mm depth
<b>37-0004.L</b>	D(внеш) 120x100мм, D(внутр) 60мм, глуб. 40мм	<b>37-0022</b>	sterile, single use, latex-free, pack of 2 pcs., Type S, OD 70x60 mm, ID 35 mm, 5 mm depth
<b>37-0008</b>	D(внеш) 120x120мм, D(внутр) 60мм, глуб. 20мм	<b>37-0023</b>	sterile, single use, latex-free, pack of 2 pcs., Type S, OD 60x50 mm, ID 25 mm, 5 mm depth
<b>37-0008.L</b>	D(внеш) 120x120мм, D(внутр) 60мм, глуб. 40мм	<b>37-0024</b>	sterile, single use, latex-free, pack of 2 pcs., Type S, OD 150x70 mm, ID 60 mm, 5 mm depth
<b>37-0008.LL</b>	sterile, single use, latex-free, pack of 2 pcs., OD 120x120 mm, ID 60 mm, 70 mm depth	<b>Крышка LapProtector E-Z Access, уп. 2 шт.</b> Стерильная, одноразового применения, без латексная	
<b>37-0014</b>	sterile, single use, latex-free, pack of 2 pcs., OD 70x70 mm, ID 35 mm, 20 mm depth	<b>37-0015</b>	70мм, для 37-0014, 37-0014.L, 37-0022
<b>37-0014.L</b>	sterile, single use, latex-free, pack of 2 pcs., OD 70x70 mm, ID 35 mm, 40 mm depth	<b>37-0017</b>	50мм, для 37-0016





37-0035.L

37-0030.L

37-0030.S

37-0035.S

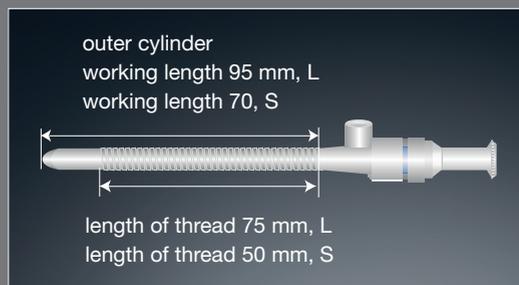
34-0954

\*

34-0957

34-3400

## E-Z Trocar



34-0952

**37-0030.L** Trocar with 2-way-stopcock Ø 5,8 mm  
working length 95 mm, sterile, single use  
suitable for 5 mm forceps, pack of 5 pcs.

**37-0030.S** Trocar with 2-way-stopcock, Ø 5,8 mm  
working length 70 mm, sterile, single use,  
suitable for 5 mm forceps, pack of 5 pcs.

**37-0035.L** Trocar Ø 5,8 mm, working length 95 mm  
sterile, single use, suitable for 5 mm  
forceps, pack of 5 pieces

**37-0035.S** Trocar Ø 5,8 mm, working length 70 mm  
sterile, single use, suitable for 5 mm  
forceps, pack of 5 pieces

**37-0040.L** Twin Trocar Ø 5,8 mm, working length  
95 mm, with 2 outer cylinder, sterile,  
single use, pack of 5 pieces

**37-0040.S** Twin Trocar Ø 5,8 mm, working length  
70 mm, with 2 outer cylinder, sterile,  
single use, pack of 5 pieces



34-0952.VV

**34-0952** Automatic Introducer Cannula Ø 5.5 mm  
w.silicone valve, working length 103 mm  
metal shaft, smooth

**34-0952.PL** Automatic Introducer cannula Ø 5.5 mm  
automatic action, working length 103 mm  
plastic shaft, smooth

**34-0952.VV** Silicone valve Ø 3,5 - 8 mm, pack of 5 pcs.

**34-0952.WC** White seal for 34-0952 and 34-0952.PL

**34-0956** Obturator 5.5 mm, pyramidal

**34-0957** Obturator 5.5 mm, cylindrical

**34-3400** Veress Insufflation Needle,  
Working length 120mm

\* Smart discs included 1 pieces each package.  
By 27-0035.S and 37-0040.L 2 pieces each package.



### 1. Trocar placement for pneumoperitoneum

Insert a trocar into the inside of “boundary line of trocar insertion”(Picture1). To avoid damaging organs by trocar tip, measure the depth from upper ring of the LAP PROTECTOR to the organs before inserting.

#### !!Caution!!

**Only use plastic-blade type trocars (otherwise, broken pieces may drop off to damage the patient.)**

### 2. Fixing

Take out the inner needle from the outer cylinder. Make sure that the inserted trocar tip does not touch the LAP PROTECTOR and organs. Attach this product to the upper ring of the LAP PROTECTOR which is already set to the abdominal wall, to fit the inner groove.(picture2,3)

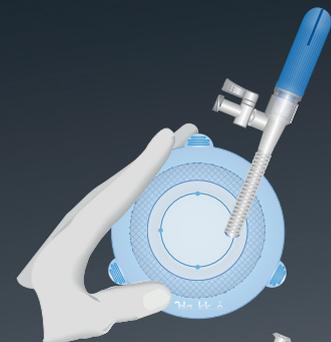
When using the LAP PROTECTOR, select the proper size to fit the depth of the abdominal wall; please read the attached IFU before use.

#### !!Caution!!

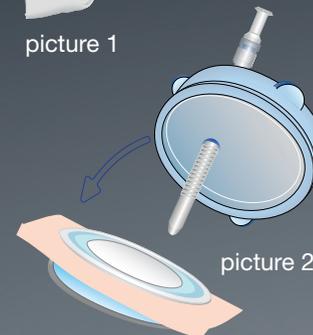
**When attaching this product to the LAP PROTECTOR, make sure that it fully covers the LAP PROTECTOR to fit the inner groove (to avoid pneumoperitoneum gas leakage and also to avoid the product from falling off.)**

### 3. Pneumoperitoneum

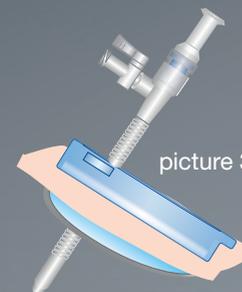
Start pneumoperitoneum from the inserted trocar and check for any gas leakage. If any gas leakage, detach and fix again to certain that there is no leakage.



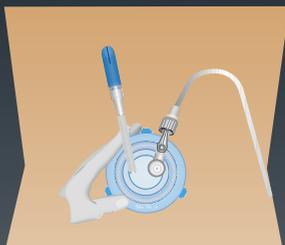
picture 1



picture 2



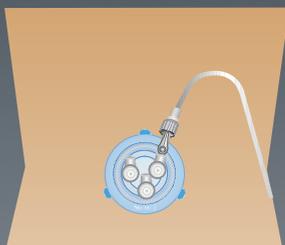
picture 3



picture 4

### INFORMATION

This is a disposable product. Its specifications and appearance are subject to change for improvement without notice.



picture 5

#### 4. Additional placement of 5mm trocars

When adding trocars, make sure that the trocar tips do not scratch and damage the LAP PROTECTOR. Deepen the insertion to reach into the abdominal cavity for operation. (picture 4,5)

#### !!Caution!!

To insert 10 mm/12 mm trocars, eject the abdominal air pressure, and then carefully remove this product from the LAP PROTECTOR; avoid the trocar tip from touching the LAP PROTECTOR or organs when removing. Pull out the 5 mm trocar and place 10 mm/12 mm trocars.



### INFORMATION

E-Z Access is a special device to attach to LAP PROTECTOR used for single-port endoscopic surgery. (LAP PROTECTOR does not come with this product, please select the proper size of LAP PROTECTOR.)





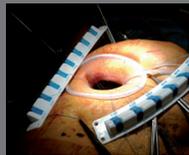
### ValveGate™ Soft Tissue Protector

The ValveGate™ Soft Tissue Protector 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 mm
Art.-No. 29-1399M	medium size	100 mm
Art.-No. 29-1399S	small size	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.



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