

# PRODUCT CATALOGUE

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**DESU** is a pioneering medical research and development company established in 2007, headquartered in Ankara, Turkey. Our mission is to advance healthcare technologies by developing innovative solutions, with a particular focus on neurosurgery and biomaterials.

Our headquarters are strategically positioned in a vibrant academic ecosystem, featuring highly regulated and meticulously detailed facilities. This environment fosters seamless collaboration between research and practical application, enabling groundbreaking advancements. Our facilities feature state-of-the-art cleanroom production environments, including 10,000-class and 1,000-class cleanrooms, designed to meet the stringent standards required for producing premium-quality medical devices and materials.

Innovation begins with curiosity—but its true impact is realized when groundbreaking research translates into real-world solutions. At **DESU**, we transform scientific advancements into tangible medical breakthroughs, bridging the gap between discovery and application.

Every product we create is the result of meticulous research, state-of-the-art technology, and an unwavering commitment to excellence. By integrating cutting-edge science with precision engineering, we ensure superior quality and performance in every solution we deliver.

With a relentless focus on progress, we don't just adapt to the future of healthcare—we shape it. By turning visionary research into reality, **DESU** is redefining what's possible in modern medicine and improving lives worldwide.



S  
U  
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A



## SHUNTS

Description

**Silicone Shunts**

|    |   |
|----|---|
| 6  | Defit Shunts, Silicone Flat-Bottom Shunts     |
| 7  | Defit Shunts, Silicone Flat-Bottom Shunt Kits |
| 10 | Decurve Shunts, Silicone Burr-Hole Shunts     |
| 11 | Decurve Shunts, Silicone Burr-Hole Shunt Kits |

**Polysulfone Shunts**

|    |  |
|----|--|
| 14 | Depus Shunts   |
| 15 | Depus Shunts, Ventriculoperitoneal Shunt Kits            |
| 16 | Depus Shunts, Lumboperitoneal Shunt Kits                 |
| 17 | Depus Shunts, Adjustable Ventriculoperitoneal Shunt Kits |
| 19 | Depus Adjustment Kit                                     |

## DRAINAGE SYSTEM

Description

|    |   |
|----|---|
| 24 | External Ventricular Drainage System With Antibiotic Impregnated Ventricular Catheter |
| 25 | External Ventricular Drainage System With Ventricular Catheter                        |
| 26 | External Lumbar Drainage System With Antibiotic Impregnated Lumbar Catheter           |
| 27 | External Lumbar Drainage System With Lumbar Catheter                                  |
| 28 | External Ventricular Drainage System With Antibiotic Impregnated Ventricular Catheter |
| 29 | External Ventricular Drainage System With Ventricular Catheter                        |
| 30 | External Lumbar Drainage System With Antibiotic Impregnated Lumbar Catheter           |
| 31 | External Lumbar Drainage System With Lumbar Catheter                                  |
| 32 | Compatible Accessories for ENDS-020   |
| 33 | Drainage Bag  |

## CATHETERS

Description

**Shunts Catheters**

|    |                                   |
|----|-----------------------------------|
| 36 | Ventricular Catheter Kit          |
| 37 | Peritoneal Catheter Kit           |
| 38 | Ventriculoperitoneal Catheter Kit |
| 39 | Lumbar Catheter Kit               |
| 40 | Lumboperitoneal Catheter Kit      |

**External Drainage Catheters**

|    |                          |
|----|--------------------------|
| 41 | Ventricular Catheter Kit |
| 42 | Lumbar Catheter Kit      |

## ACCESSORIES

Description

|    |                             |
|----|-----------------------------|
| 44 | Antisiphon Device           |
| 44 | Straight Catheter Connector |
| 44 | L Type Catheter Connector   |
| 44 | Y Type Catheter Connector   |

## DURA GRAFTS

Description

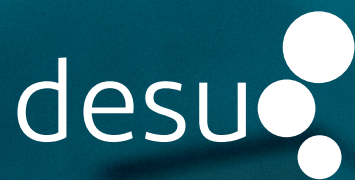
|    |                                  |
|----|----------------------------------|
| 46 | DECOLL Collagen Dura Membrane    |
| 47 | DURASHEET Collagen Dura Membrane |

## COLLAGEN BASED GRAFTS SOLUTIONS

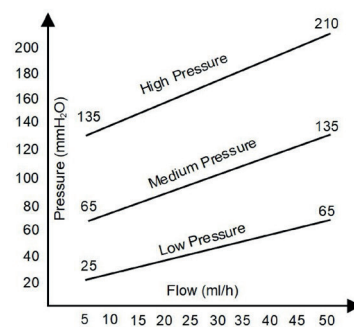
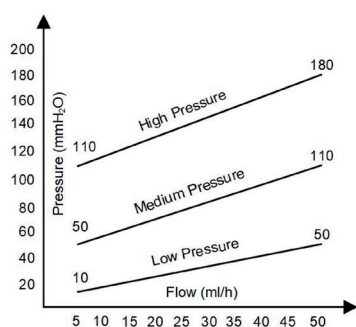
Description

|    |   |
|----|---|
| 50 | DEBONE Collagen Based Bone Grafts             |
| 51 | XENOBONE Bovine-Derived Collagen Graft        |
| 52 | COLL-OS Collagen Based Grafts                 |
| 53 | Kibo® Intracranial Pressure Monitoring System |
| 54 | DeFix Bone Cement                             |
| 55 | Cranioplasty Bone Cement                      |





Shunt systems are drainage systems designed to reduce the intracranial pressure that occurs with hydrocephalus disease.



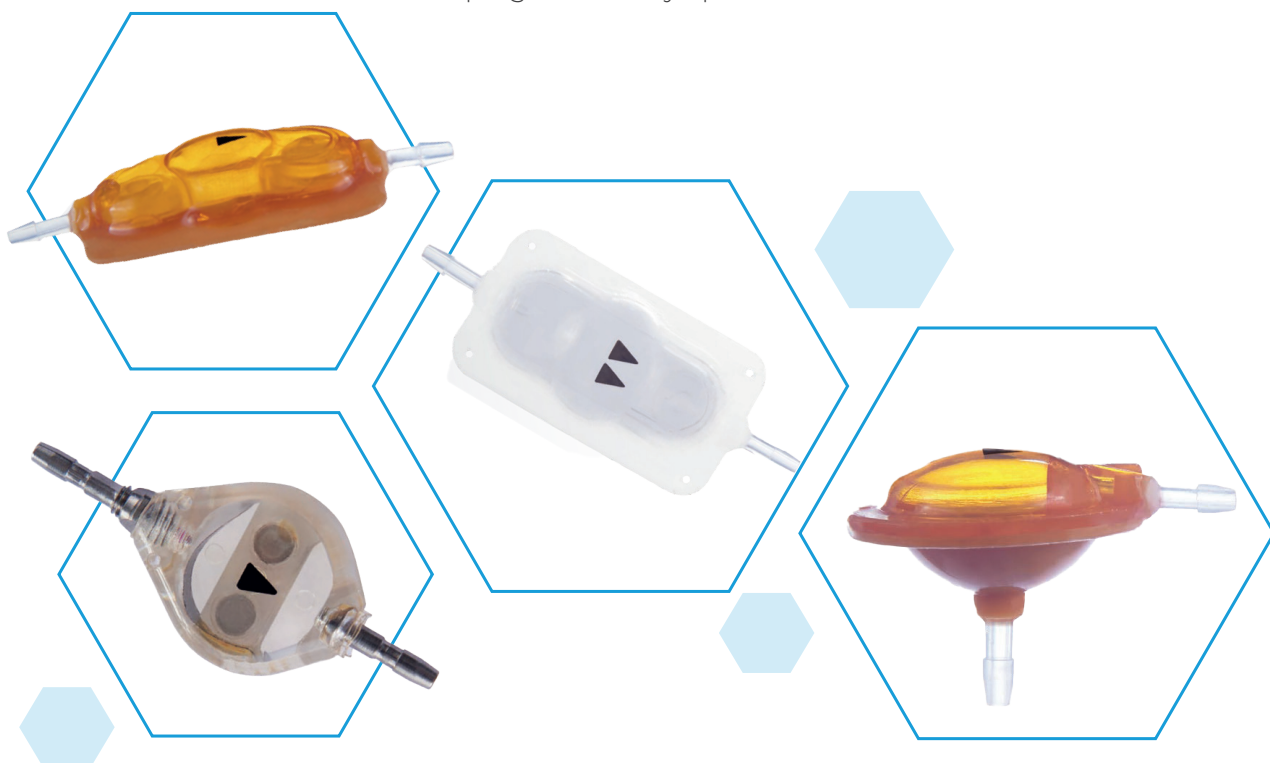
All shunt systems are provided as sterile (Method EO-Ethylene Oxide)



# Neurosurgical Shunt Systems

## Silicone Shunts

Silicone valves are made of polypropylene and silicone elastomer. The risk of deformation due to adhesion is minimized. Does not contain any metal parts. Suitable for MRI and CT scans. It has a reservoir structure. Antibiotic impregnated body option is available.



## Polysulfone Shunts

The mechanism inside the Polysulfone Shunts is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.

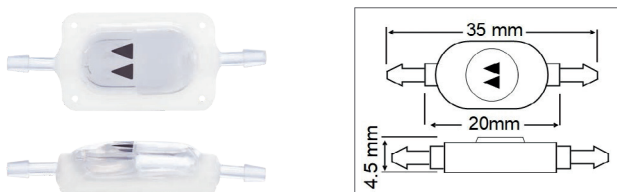


# Defit Shunts

## Silicone Flat-Bottom Shunts

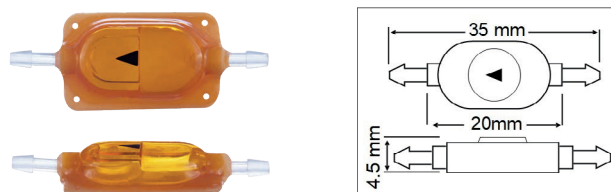
Ultra Small, Small and Regular sizes are available as valve and shunt kit.

### Ultra Small Defit Shunt



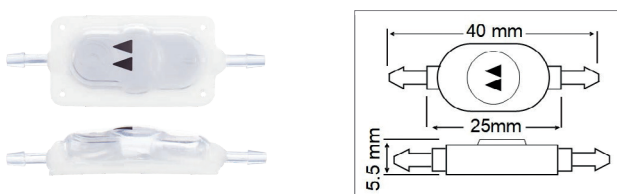
| Reference Code    | Pressure | Product Description   |
|-------------------|----------|---|
| <b>DFUS-L-PEB</b> | <b>L</b> | Defit Ultra Small Silicone Shunt Low Pressure with Reinforced Base    |
| <b>DFUS-M-PEB</b> | <b>M</b> | Defit Ultra Small Silicone Shunt Medium Pressure with Reinforced Base |
| <b>DFUS-H-PEB</b> | <b>H</b> | Defit Ultra Small Silicone Shunt High Pressure with Reinforced Base   |

### Antibiotic Impregnated Ultra Small Defit Shunt



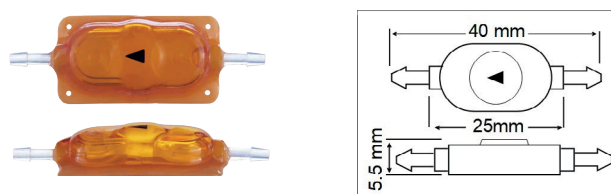
| Reference Code     | Pressure | Product Description  |
|--------------------|----------|--|
| <b>ADFUS-L-PEB</b> | <b>L</b> | AI Defit Ultra Small Silicone Shunt Low Pressure with Reinforced Base    |
| <b>ADFUS-M-PEB</b> | <b>M</b> | AI Defit Ultra Small Silicone Shunt Medium Pressure with Reinforced Base |
| <b>ADFUS-H-PEB</b> | <b>H</b> | AI Defit Ultra Small Silicone Shunt High Pressure with Reinforced Base   |

### Small Defit Shunt



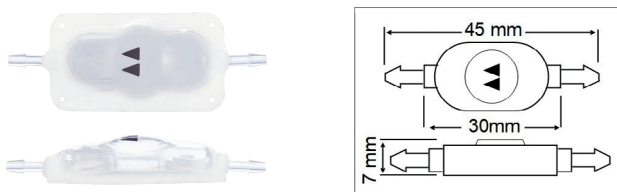
| Reference Code   | Pressure | Product Description   |
|------------------|----------|---|
| <b>DFS-L-PEB</b> | <b>L</b> | Defit Small Silicone Shunt Low Pressure with Reinforced Base    |
| <b>DFS-M-PEB</b> | <b>M</b> | Defit Small Silicone Shunt Medium Pressure with Reinforced Base |
| <b>DFS-H-PEB</b> | <b>H</b> | Defit Small Silicone Shunt High Pressure with Reinforced Base   |

### Antibiotic Impregnated Small Defit Shunt



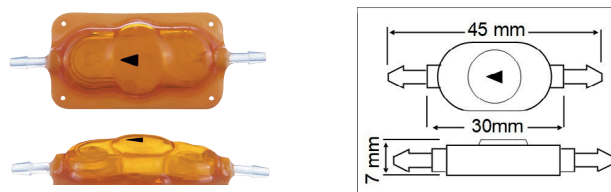
| Reference Code    | Pressure | Product Description  |
|-------------------|----------|--|
| <b>ADFS-L-PEB</b> | <b>L</b> | AI Defit Small Silicone Shunt Low Pressure with Reinforced Base    |
| <b>ADFS-M-PEB</b> | <b>M</b> | AI Defit Small Silicone Shunt Medium Pressure with Reinforced Base |
| <b>ADFS-H-PEB</b> | <b>H</b> | AI Defit Small Silicone Shunt High Pressure with Reinforced Base   |

### Regular Defit Shunt



| Reference Code   | Pressure | Product Description   |
|------------------|----------|---|
| <b>DFR-L-PEB</b> | <b>L</b> | Defit Regular Silicone Shunt Low Pressure with Reinforced Base  |
| <b>DFR-M-PEB</b> | <b>M</b> | Defit Small Silicone Shunt Medium Pressure with Reinforced Base |
| <b>DFR-H-PEB</b> | <b>H</b> | Defit Regular Silicone Shunt High Pressure with Reinforced Base |

### Antibiotic Impregnated Regular Defit Shunt



| Reference Code    | Pressure | Product Description  |
|-------------------|----------|--|
| <b>ADFR-L-PEB</b> | <b>L</b> | AI Defit Regular Silicone Shunt Low Pressure with Reinforced Base    |
| <b>ADFR-M-PEB</b> | <b>M</b> | AI Defit Regular Silicone Shunt Medium Pressure with Reinforced Base |
| <b>ADFR-H-PEB</b> | <b>H</b> | AI Defit Regular Silicone Shunt High Pressure with Reinforced Base   |

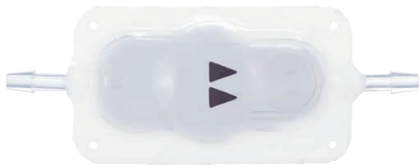
# Defit Shunts

## Silicone Flat-Bottom Shunts

Ultra Small, Small and Regular sizes are available as valve and shunt kit.

Defit Shunt Kit included with; Defit Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Ultra Small Defit Shunt



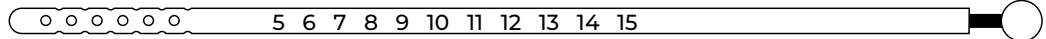
Defit Shunt



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code     | Pressure | Product Description   |
|--------------------|----------|---|
| DFUS-L-VCK-PEB     | L        | Defit Ultra Small Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit                          |
| DFUS-L-VCK-PEB-ASD |          | Defit Ultra Small Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| DFUS-M-VCK-PEB     | M        | Defit Ultra Small Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit                       |
| DFUS-M-VCK-PEB-ASD |          | Defit Ultra Small Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device |
| DFUS-H-VCK-PEB     | H        | Defit Ultra Small Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit                         |
| DFUS-H-VCK-PEB-ASD |          | Defit Ultra Small Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device   |

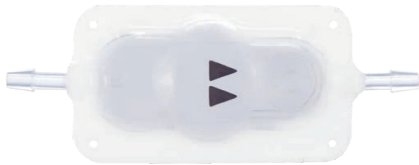
# Defit Shunts

## Silicone Flat-Bottom Shunts

Ultra Small, Small and Regular sizes are available as valve and shunt kit.

Defit Shunt Kit included with; Defit Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Semi Antibiotic Defit Shunt Kit



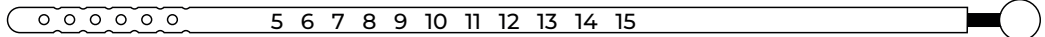
Defit Shunt



ASD (Optional)

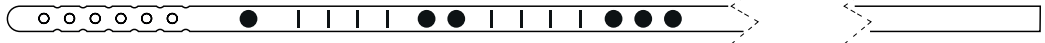
| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code            | Pressure | Product Description  |
|---------------------------|----------|--|
| <b>DFS-L-VACK-PEB</b>     | <b>L</b> | Defit Small Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                          |
| <b>DFS-L-VACK-PEB-ASD</b> |          | Defit Small Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| <b>DFS-M-VACK-PEB</b>     | <b>M</b> | Defit Small Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                       |
| <b>DFS-M-VACK-PEB-ASD</b> |          | Defit Small Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device |
| <b>DFS-H-VACK-PEB</b>     | <b>H</b> | Defit Small Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                         |
| <b>DFS-H-VACK-PEB-ASD</b> |          | Defit Small Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device   |



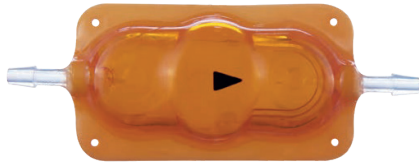
# Defit Shunts

## Silicone Flat-Bottom Shunts

Ultra Small, Small and Regular sizes are available as valve and shunt kit.

Defit Shunt Kit included with; Defit Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Fully Antibiotic Impregnated Defit Shunt Kit



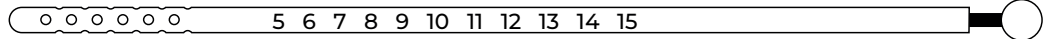
Antibiotic  
Impregnated  
Defit Shunt



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



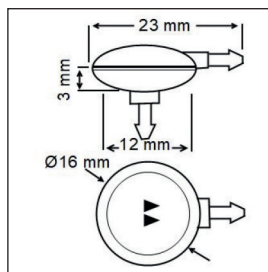
| Reference Code      | Pressure | Product Description  |
|---------------------|----------|--|
| ADFR-L-VACK-PEB     | L        | Defit Regular Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                          |
| ADFR-L-VACK-PEB-ASD |          | Defit Regular Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| ADFR-M-VACK-PEB     | M        | Defit Regular Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                       |
| ADFR-M-VACK-PEB-ASD |          | Defit Regular Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device |
| ADFR-H-VACK-PEB     | H        | Defit Regular Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                         |
| ADFR-H-VACK-PEB-ASD |          | Defit Regular Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device   |

# Decurve Shunts

## Silicone Burr-Hole Shunts

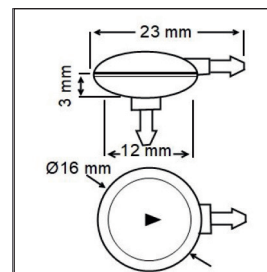
Pediatric and Adult sizes are available as valve and shunt kit.

### Pediatric Decurve Shunt



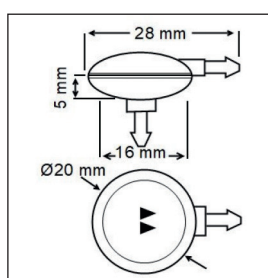
| Reference Code | Pressure | Product Description                              |
|----------------|----------|--|
| <b>DCP-L</b>   | <b>L</b> | Decurve Pediatric Silicone Shunt Low Pressure    |
| <b>DCP-M</b>   | <b>M</b> | Decurve Pediatric Silicone Shunt Medium Pressure |
| <b>DCP-H</b>   | <b>H</b> | Decurve Pediatric Silicone Shunt High Pressure   |

### Antibiotic Impregnated Pediatric Decurve Shunt



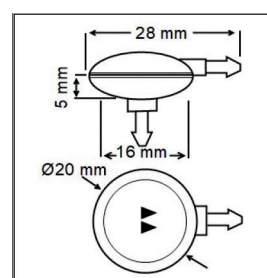
| Reference Code | Pressure | Product Description                                 |
|----------------|----------|---|
| <b>ADCP-L</b>  | <b>L</b> | AI Decurve Pediatric Silicone Shunt Low Pressure    |
| <b>ADCP-M</b>  | <b>M</b> | AI Decurve Pediatric Silicone Shunt Medium Pressure |
| <b>ADCP-H</b>  | <b>H</b> | AI Decurve Pediatric Silicone Shunt High Pressure   |

### Adult Decurve Shunt



| Reference Code | Pressure | Product Description                          |
|----------------|----------|--|
| <b>DCA-L</b>   | <b>L</b> | Decurve Adult Silicone Shunt Low Pressure    |
| <b>DCA-M</b>   | <b>M</b> | Decurve Adult Silicone Shunt Medium Pressure |
| <b>DCA-H</b>   | <b>H</b> | Decurve Adult Silicone Shunt High Pressure   |

### Antibiotic Impregnated Adult Decurve Shunt



| Reference Code | Pressure | Product Description                             |
|----------------|----------|---|
| <b>ADCA-L</b>  | <b>L</b> | AI Decurve Adult Silicone Shunt Low Pressure    |
| <b>ADCA-M</b>  | <b>M</b> | AI Decurve Adult Silicone Shunt Medium Pressure |
| <b>ADCA-H</b>  | <b>H</b> | AI Decurve Adult Silicone Shunt High Pressure   |

# Decurve Shunts

## Silicone Burr-Hole Shunt Kits

Pediatric and Adult sizes are available as valve and shunt kit.

Decurve Shunt Kit included with; Decurve Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Standard Decurve Shunt Kit



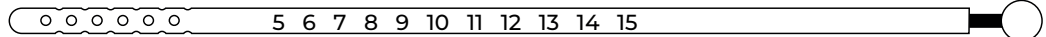
Decurve Shunt



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code | Pressure | Product Description  |
|----------------|----------|--|
| DCP-L-VCK      | L        | Decurve Pediatric Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit                             |
| DCP-L-VACK     |          | Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                          |
| DCP-L-VCK-ASD  |          | Decurve Pediatric Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device       |
| DCP-L-VACK-ASD |          | Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| DCP-M-VCK      | M        | Decurve Pediatric Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit                          |
| DCP-M-VACK     |          | Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                       |
| DCP-M-VCK-ASD  |          | Decurve Pediatric Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| DCP-M-VACK-ASD |          | Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device |
| DCP-H-VCK      | H        | Decurve Pediatric Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit                            |
| DCP-H-VACK     |          | Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                         |
| DCP-H-VCK-ASD  |          | Decurve Pediatric Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device      |
| DCP-H-VACK-ASD |          | Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device   |



# Decurve Shunts

## Silicone Burr-Hole Shunt Kits

Pediatric and Adult sizes are available as valve and shunt kit.

Decurve Shunt Kit included with; Decurve Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Semi Antibiotic Decurve Shunt Kit



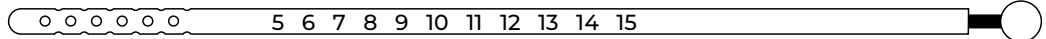
Decurve Shunt



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code | Pressure | Product Description   |
|----------------|----------|---|
| DCA-L-VCK      | L        | Decurve Adult Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit                            |
| DCA-L-VACK     |          | Decurve Adult Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                         |
| DCA-L-VCK-ASD  |          | Decurve Adult Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device      |
| DCA-L-VACK-ASD |          | Decurve Adult Silicone Shunt Low Pressure with AI entriculoperitoneal Catheter Kit and Antisiphon Device    |
| DCA-M-VCK      | M        | Decurve Adult Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit                         |
| DCA-M-VACK     |          | Decurve Adult Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                      |
| DCA-M-VCK-ASD  |          | Decurve Adult Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device   |
| DCA-M-VACK-ASD |          | Decurve Adult Silicone Shunt Medium Pressure with AI entriculoperitoneal Catheter Kit and Antisiphon Device |
| DCA-H-VCK      | H        | Decurve Adult Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit                           |
| DCA-H-VACK     |          | Decurve Adult Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                        |
| DCA-H-VCK-ASD  |          | Decurve Adult Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device     |
| DCA-H-VACK-ASD |          | Decurve Adult Silicone Shunt High Pressure with AI entriculoperitoneal Catheter Kit and Antisiphon Device   |

# Decurve Shunts

## Silicone Burr-Hole Shunt Kits

Pediatric and Adult sizes are available as valve and shunt kit.

Decurve Shunt Kit included with; Decurve Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Standard Decurve Shunt Kit



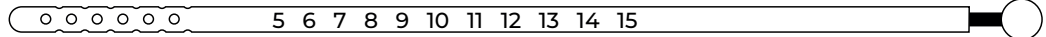
Antibiotic  
Impregnated  
Decurve Shunt



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code  | Pressure | Product Description  |
|-----------------|----------|--|
| ADCP-L-VACK     | L        | AI Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                           |
| ADCP-L-VACK-ASD |          | AI Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphone Device    |
| ADCA-L-VACK     |          | AI Decurve Adult Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                               |
| ADCA-L-VACK-ASD |          | AI Decurve Adult Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphone Device        |
| ADCP-M-VACK     | M        | AI Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                        |
| ADCP-M-VACK-ASD |          | AI Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphone Device |
| ADCA-M-VACK     |          | AI Decurve Adult Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                            |
| ADCA-M-VACK-ASD |          | AI Decurve Adult Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphone Device     |
| ADCP-H-VACK     | H        | AI Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                          |
| ADCP-H-VACK-ASD |          | AI Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphone Device   |
| ADCA-H-VACK     |          | AI Decurve Adult Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                              |
| ADCA-H-VACK-ASD |          | AI Decurve Adult Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphone Device       |

# Depus Shunts

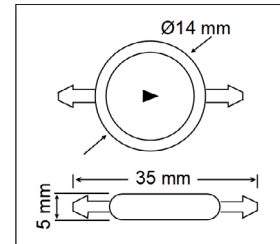
The mechanism inside the shunt is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.



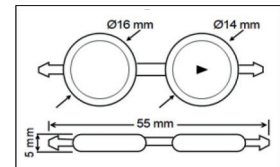
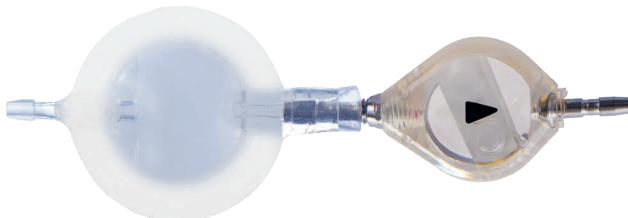
Depus Shunt



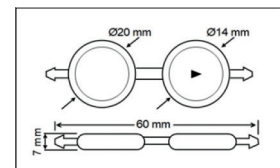
Adjustable Depus Shunt



## Depus Shunt with Flat-Bottom Reservoir

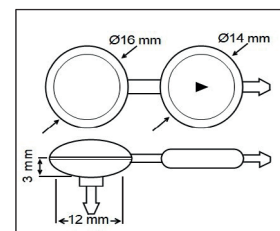


Pediatric

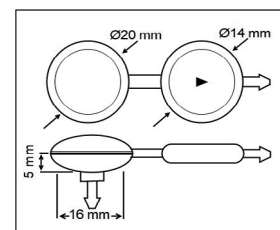


Adult

## Depus Shunt with Flat-Bottom Reservoir



Pediatric



Adult

| Reference Code | Pressure | Product Description                     |
|----------------|----------|---|
| DP-L           | L        | Depus Polysulfone Shunt Low Pressure    |
| DP-M           | M        | Depus Polysulfone Shunt Medium Pressure |
| DP-H           | H        | Depus Polysulfone Shunt High Pressure   |



# Depus Shunts

## Ventriculoperitoneal Shunt Kits

Valve size is suitable for pediatric and adult patients. Valve and shunt kit options are available. Depus Shunt Kit included with; Depus Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional), Reservoir (Optional).



Depus Shunt with Burr-Hole Reservoir



Depus Shunt with Flat-Bottom Reservoir

### Standard Depus Shunt Kit



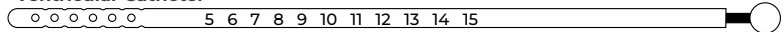
Depus Valve



ASD (Optional)

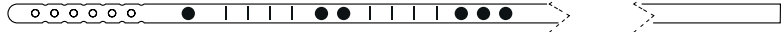
| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code | Pressure | Product Description  |
|----------------|----------|--|
| DP-L-VCK       | L        | Depus Polysulfone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit                          |
| DP-L-VCK-ASD   |          | Depus Polysulfone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| DP-M-VCK       | M        | Depus Polysulfone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit                       |
| DP-M-VCK-ASD   |          | Depus Polysulfone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device |
| DP-H-VCK       | H        | Depus Polysulfone Shunt High Pressure with Ventriculoperitoneal Catheter Kit                         |
| DP-H-VCK-ASD   |          | Depus Polysulfone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device   |

### Semi Antibiotic Depus Shunt Kit



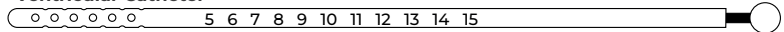
Depus Valve



ASD (Optional)

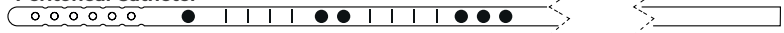
| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

Peritoneal Catheter



| Reference Code | Pressure | Product Description   |
|----------------|----------|---|
| DP-L-VACK      | L        | Depus Polysulfone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit                          |
| DP-L-VACK-ASD  |          | Depus Polysulfone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device    |
| DP-M-VACK      | M        | Depus Polysulfone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit                       |
| DP-M-VACK-ASD  |          | Depus Polysulfone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device |
| DP-H-VACK      | H        | Depus Polysulfone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit                         |
| DP-H-VACK-ASD  |          | Depus Polysulfone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device   |

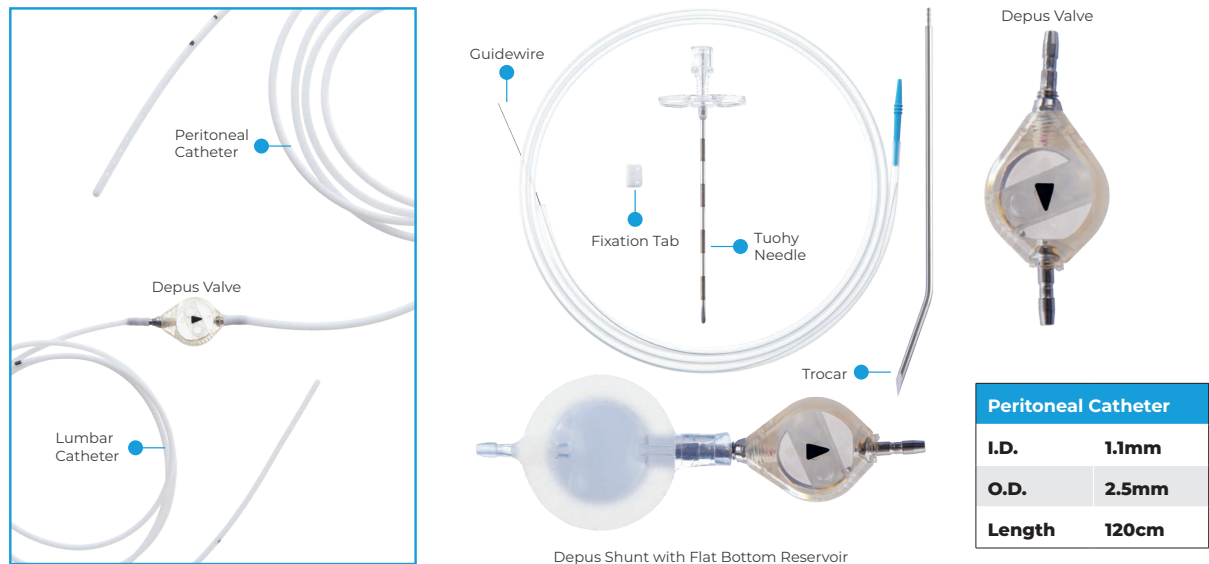
# Depus Shunts

## Lumboperitoneal Shunt Kits

The valve size is suitable to use in both pediatric and adult patients.

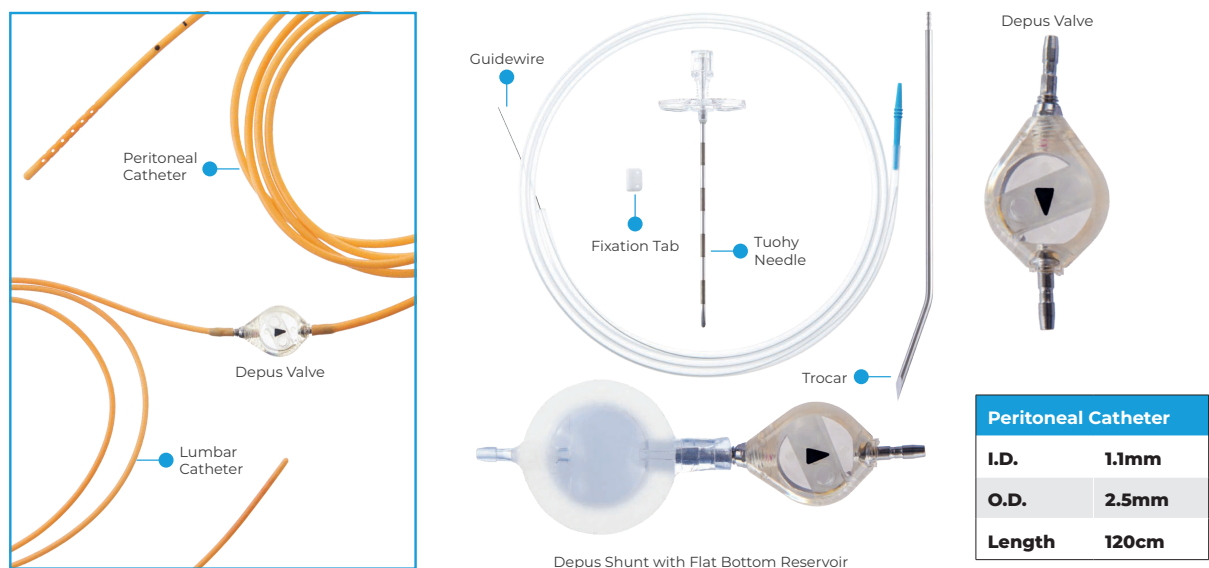
Depus Shunt Kit included with; Depus Valve, Lumbar Catheter, Peritoneal Catheter, 14 G Tuohy Needle, 0,018" Guidewire, ASD (Optional), Reservoir (Optional).

### Standard Depus Shunt Kit



| Reference Code | Pressure | Product Description   |
|----------------|----------|---|
| LPDP-L-LTCK    | L        | Depus Lumboperitoneal Polysulfone Shunt Low Pressure with Lumboperitoneal Catheter    |
| LPDP-M-LTCK    | M        | Depus Lumboperitoneal Polysulfone Shunt Medium Pressure with Lumboperitoneal Catheter |
| LPDP-H-LTCK    | H        | Depus Lumboperitoneal Polysulfone Shunt High Pressure with Lumboperitoneal Catheter   |

### Standard Depus Shunt Kit



| Reference Code | Pressure | Product Description  |
|----------------|----------|--|
| LPDP-L-LTACK   | L        | Depus Lumboperitoneal Polysulfone Shunt Low Pressure with AI Lumboperitoneal Catheter    |
| LPDP-M-LTACK   | M        | Depus Lumboperitoneal Polysulfone Shunt Medium Pressure with AI Lumboperitoneal Catheter |
| LPDP-H-LTACK   | H        | Depus Lumboperitoneal Polysulfone Shunt High Pressure with AI Lumboperitoneal Catheter   |

# Depus Shunts

## Adjustable Ventriculoperitoneal Shunt Kits

The valve size is suitable to use in pediatric and adults. There are four different silicone reservoirs with Depus Adjustable Shunt; Adult Flat-Bottom, Pediatric Flat-Bottom, Adult Burr-Hole and Pediatric Burr-Hole. Standard and semi-antibiotic kit options are available. Depus VP Adjustable Shunt Kit Included With; Depus Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, Silicone Reservoir, ASD (Optional).



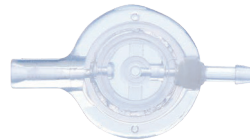
Adjustable Depus Shunt with Burr-Hole Reservoir

| Referans Kodu         | 3 Pressure  |
|-----------------------|---|
| <b>DP-A</b>           | DEPUS Adjustable Pediatric Shunt  |
| <b>ADP-A</b>          | DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Body   |
| <b>DP-A-VCK</b>       | DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit   |
| <b>DP-A-VACK</b>      | DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit  |
| <b>ADP-A-VCK</b>      | Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit   |
| <b>ADP-A-VACK</b>     | Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit                    |
| <b>DP-A-VCK-ASD</b>   | DEPUS Adjustable Pediatric Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device  |
| <b>DP-A-VACK-ASD</b>  | DEPUS Adjustable Pediatric Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device                             |
| <b>ADP-A-VCK-ASD</b>  | Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit and Antisiphon Device                     |
| <b>ADP-A-VACK-ASD</b> | Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device |

### Standard Depus Shunt Kit



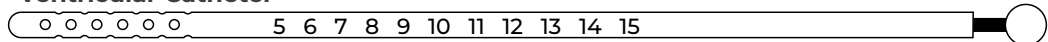
Adjustable Depus Valve



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

#### Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

#### Peritoneal Catheter



### Semi Antibiotic Depus Shunt Kit



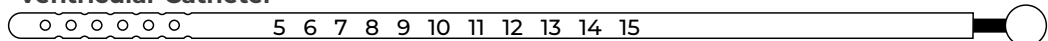
Adjustable Depus Valve



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

#### Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

#### Peritoneal Catheter



# Depus Shunts

## Adjustable Ventriculoperitoneal Shunt Kits

The valve size is suitable to use in pediatric and adults. There are four different silicone reservoirs with Depus Adjustable Shunt; Adult Flat-Bottom, Pediatric Flat-Bottom, Adult Burr-Hole and Pediatric Burr-Hole. Standard and semi-antibiotic kit options are available.

Depus VP Adjustable Shunt Kit Included With; Depus Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, Silicone Reservoir, ASD (Optional).



Adjustable Depus Shunt with Burr-Hole Reservoir

| Referans Kodu          | 5 Pressure  |
|------------------------|---|
| <b>DPA-A</b>           | DEPUS Adjustable Adult Shunt  |
| <b>ADPA-A</b>          | DEPUS Adjustable Adult Shunt with Antibiotic Impregnated Body   |
| <b>DPA-A-VCK</b>       | DEPUS Adjustable Adult Shunt with Ventriculoperitoneal Catheter Kit   |
| <b>DPA-A-VACK</b>      | DEPUS Adjustable Adult Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit  |
| <b>ADPA-A-VCK</b>      | Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt with Ventriculoperitoneal Catheter Kit   |
| <b>ADPA-A-VACK</b>     | Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit                    |
| <b>DPA-A-VCK-ASD</b>   | DEPUS Adjustable Adult Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device  |
| <b>DPA-A-VACK-ASD</b>  | DEPUS Adjustable Adult Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device                             |
| <b>ADPA-A-VCK-ASD</b>  | Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device                        |
| <b>ADPA-A-VACK-ASD</b> | Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device |

### Standard Depus Shunt Kit



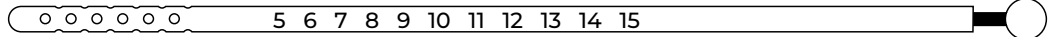
Adjustable Depus Valve



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

#### Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

#### Peritoneal Catheter



### Semi Antibiotic Depus Shunt Kit



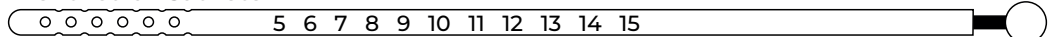
Adjustable Depus Valve



ASD (Optional)

| Ventricular Catheter |       |
|----------------------|-------|
| I.D.                 | 1.3mm |
| O.D.                 | 2.5mm |
| Length               | 23cm  |

#### Ventricular Catheter



| Peritoneal Catheter |       |
|---------------------|-------|
| I.D.                | 1.1mm |
| O.D.                | 2.5mm |
| Length              | 120cm |

#### Peritoneal Catheter





# Depus Adjustment Kit

Adjustment Kit is used to adjust the pressure of Adjustable Depus Shunts to different pressure levels, low, medium or high.

## 5 Pressure

**Adjustment Kit**  
Packaged in a non-sterile and reusable box

**Locator**  
Determines the target directions of pressure levels

**Magnet**  
Adjusts the proper pressure levels

**Compass**  
Pressure monitoring



Watch the Product Overview



## 3 Pressure

**Adjustment Kit**  
Packaged in a non-sterile and reusable box

**Locator**  
Determines the target directions of pressure levels

**Compass**  
Pressure monitoring

**Magnet**  
Adjusts the proper pressure levels



| Reference Code | Product Description  |
|----------------|----------------------|
| DP-ADJKIT3     | Depus Adjustment Kit |
| DP-ADJKIT5     | Depus Adjustment Kit |



desu

**PRECISION IN PURPOSE.  
EXCELLENCE IN HEALING.**



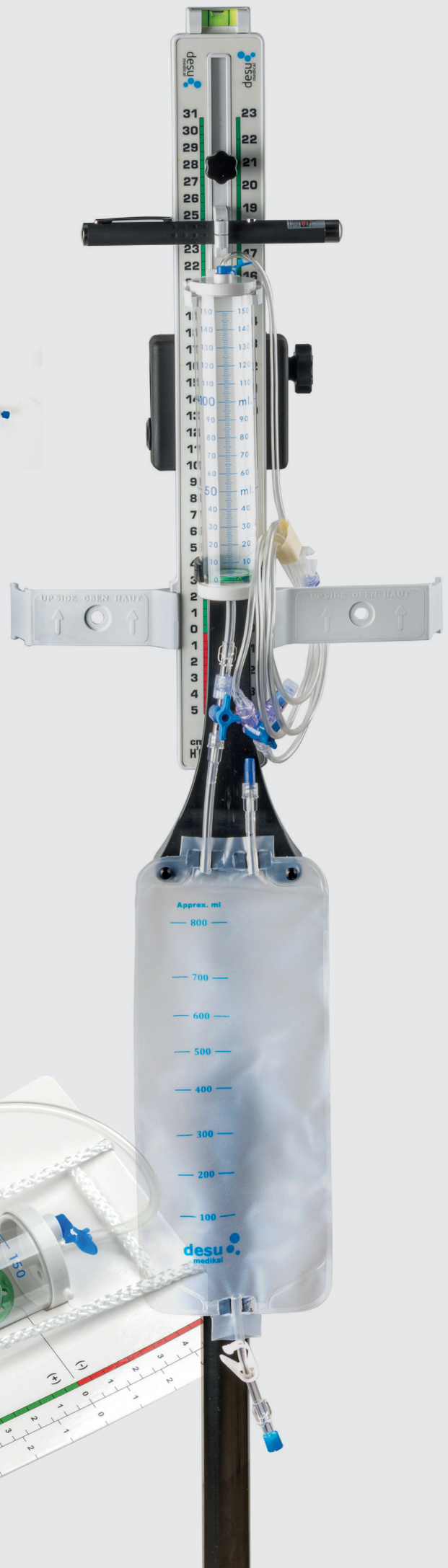
[www.desu.tr](http://www.desu.tr)





# Neurosurgical Drainage Systems

External Drainage Systems are used as a temporary solution to regulate the increased level of intracranial pressure on a regular and controlled basis by draining CSF from the ventricles or lumbar space.



# ENDS-010 SERIES



**Designed for Precision.  
Built for Safety.**

60 cm Reinforced Tubing with Locking Mechanism ensures secure and reliable setup.

30 cm Measurement Rod enables precise adjustment of CSF pressure (mmHg/cmH<sub>2</sub>O).

150 mL Drip Chamber for easy monitoring of cerebrospinal fluid flow.

800 mL Drainage Bag with Hydrophobic Air Filter  
minimizes infection and prevents reflux.

Includes two 3-Way Stopcocks for controlled drainage and sampling.

Hydrophobic Filter maintains a sterile and closed system environment.







## ENDS-020 SERIES

# Stability, Safety and Precision.

Provides safe and precise CSF drainage for patients with elevated intracranial pressure or acute hydrocephalus.

Features a clearly graduated manometer for accurate pressure regulation (0–40 cmH<sub>2</sub>O).

Large-volume collection bag (1000 mL) with anti-reflux valve ensures uninterrupted and contamination-free drainage.

Height-adjustable support system for optimal anatomical alignment and clinical flexibility.

Sterile, closed system design minimizes infection risk—ideal for both ICU and neurosurgical settings.

Easy to set up, monitor, and manage—trusted by neurosurgeons for reliability and performance.



Drainage System ●

# External Ventricular Drainage System

## With Antibiotic Impregnated Ventricular Catheter

It is presented with an antibiotic-impregnated external ventricular drainage catheter and drainage system.

**Antibiotic Impregnated Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- Stylet
- Fixation tab
- Luer Lock Connector and Distal Cap
- Angled Trocar

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

| Reference Code | Product Description   |
|----------------|---|
| ENDS-AC-010    | External Ventricular Drainage System with AI Ventricular Catheter |

Antibiotic Impregnated Ventricular Catheter

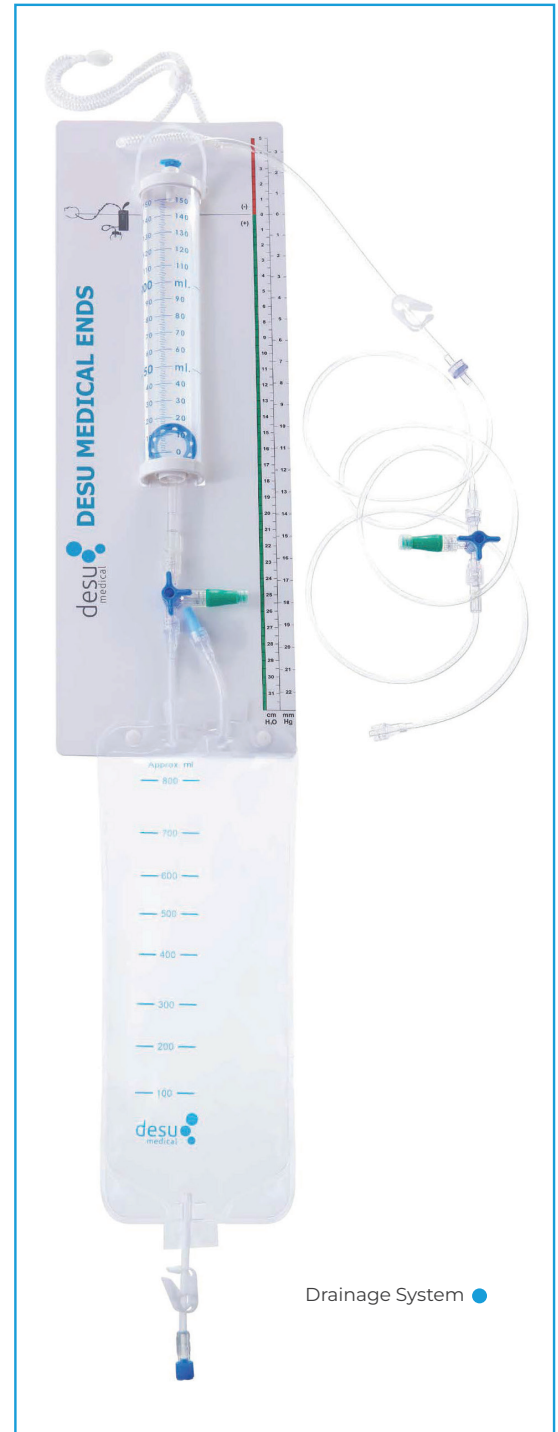
Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet

Drainage System



# External Ventricular Drainage System

## With Ventricular Catheter

Barium Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

**Barium Impregnated Standard Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- Stylet
- Fixation tab
- Luer Lock Connector and Distal Cap
- Angled Trocar

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

| Reference Code | Product Description  |
|----------------|--|
| ENDS-C-010     | External Ventricular Drainage System with Ventricular Catheter |

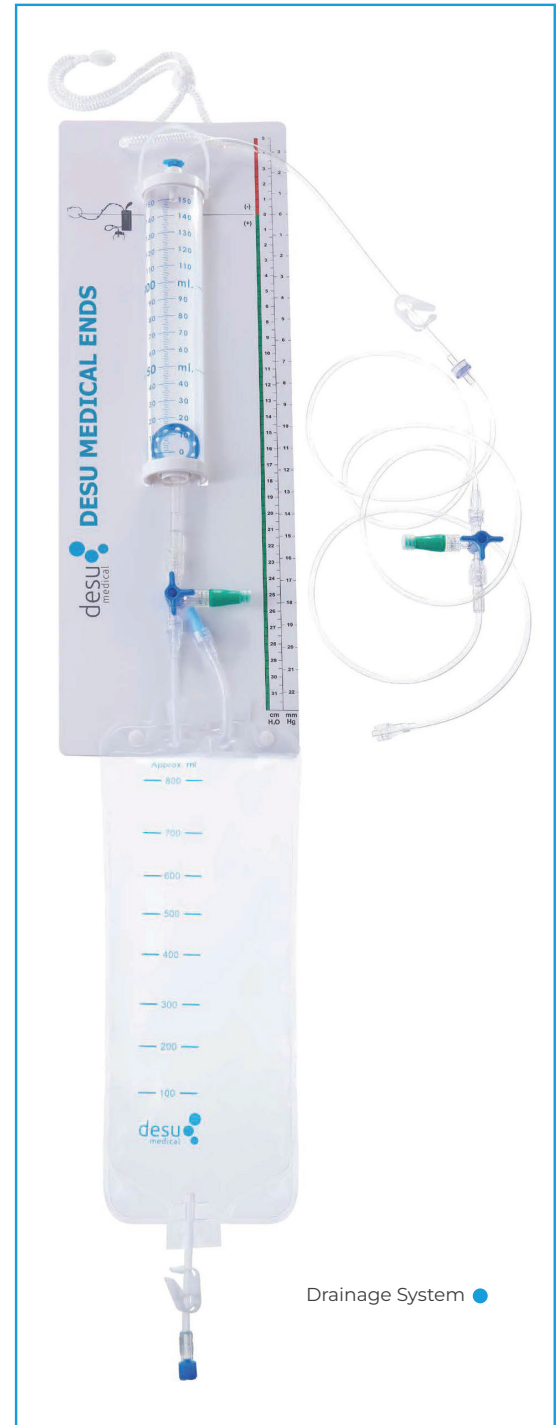
Barium Impregnated  
Standard Ventricular Catheter

Fixation Tab

Luer Lock Connector  
and Distal Cap

Angled Trocar

Stylet



Drainage System

# External Lumbar Drainage System

## With Antibiotic Impregnated Lumbar Catheter

Antibiotic Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

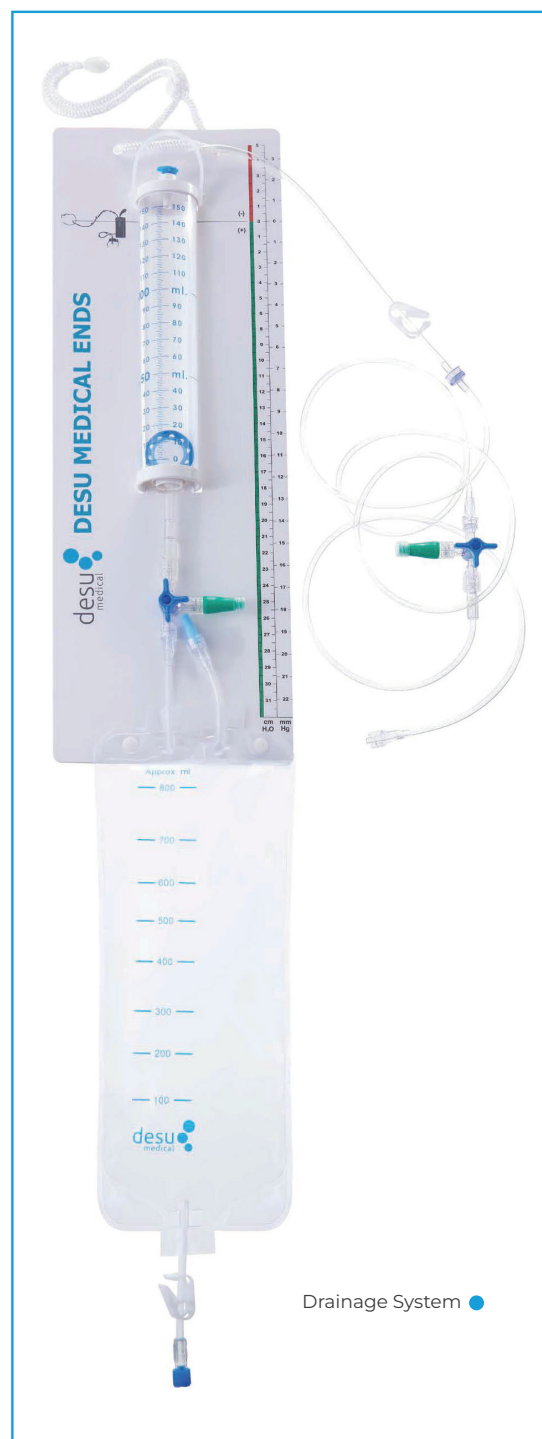
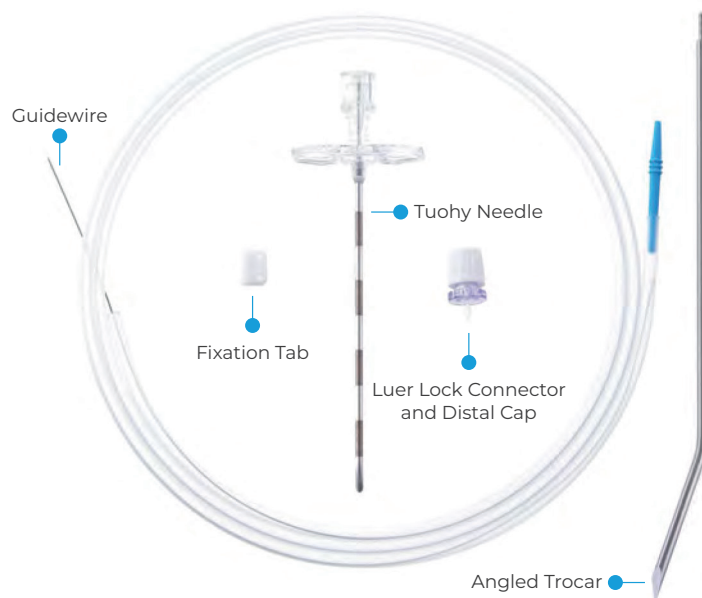
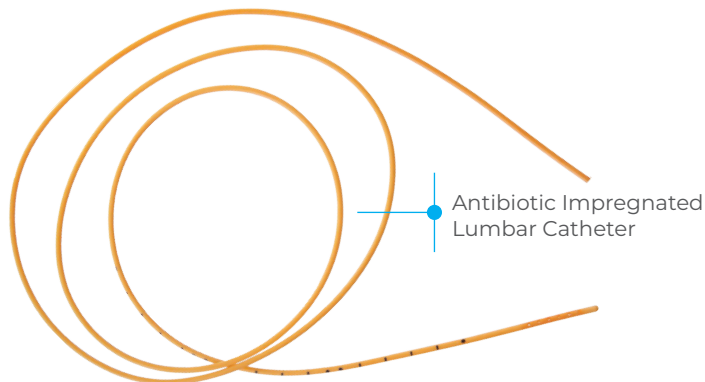
**Antibiotic Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

| Reference Code       | Product Description                                     |
|----------------------|---|
| <b>LACK-ENDS-010</b> | External Lumbar Drainage System with AI Lumbar Catheter |





# External Lumbar Drainage System

## With Ventricular Catheter

Barium Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

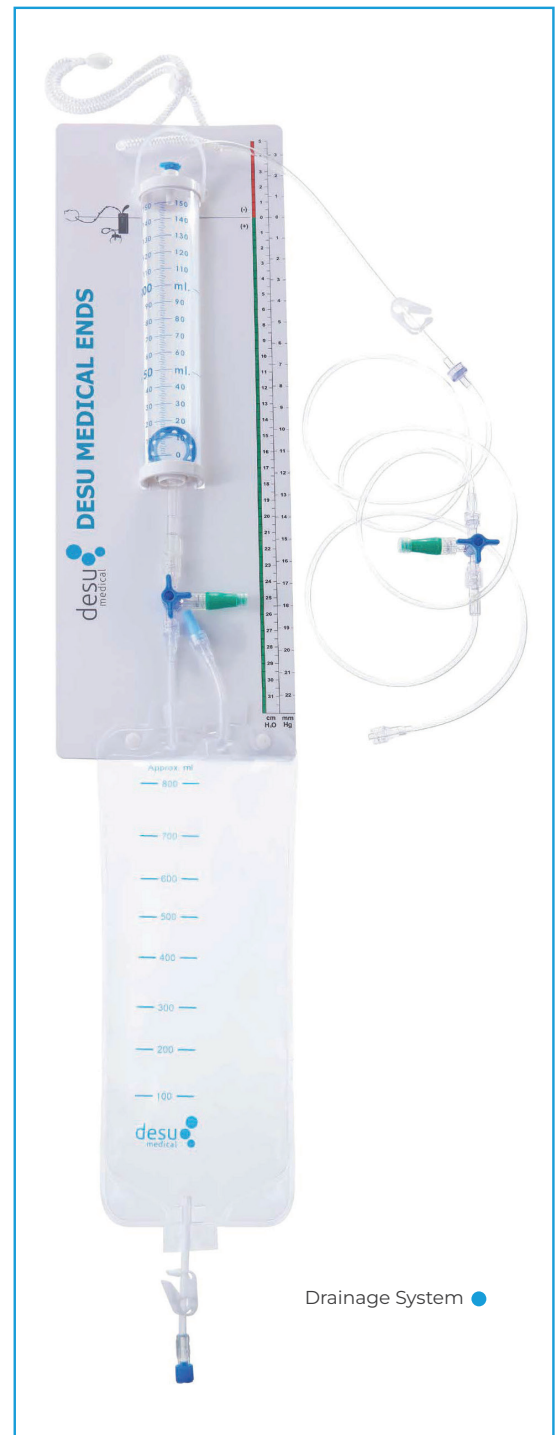
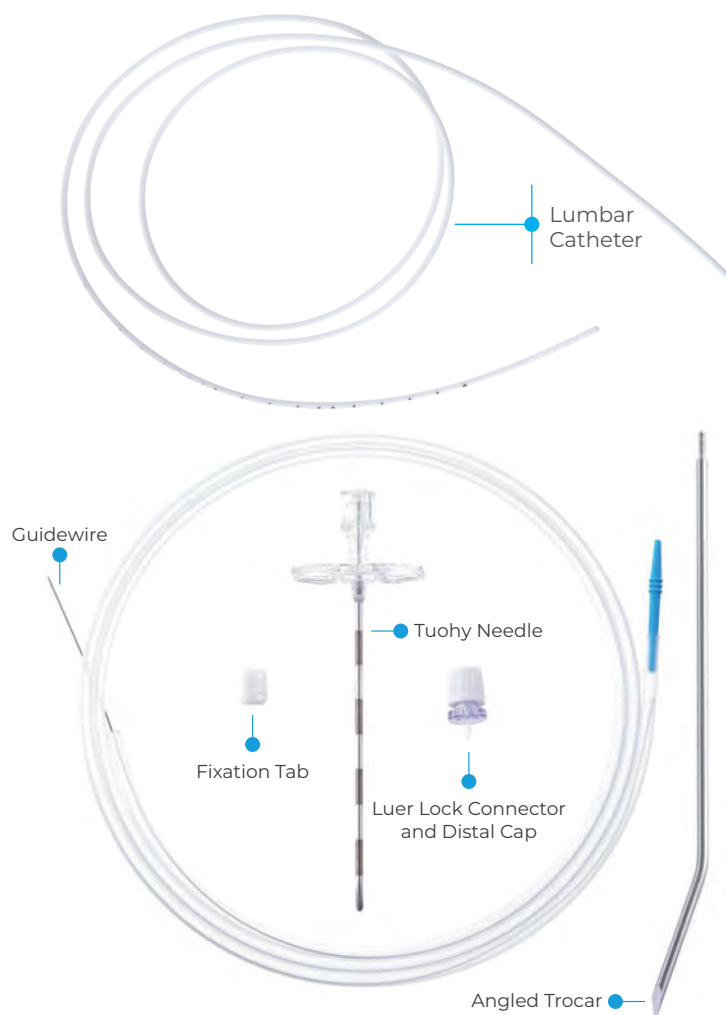
**Barium Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

| Reference Code | Product Description                                  |
|----------------|--|
| LCK-ENDS-010   | External Lumbar Drainage System with Lumbar Catheter |



# External Ventricular Drainage System

## With Antibiotic-Impregnated Ventricular Catheter

The Antibiotic-Impregnated External Ventricular Drainage Catheter is offered together with a dedicated drainage system for effective and sterile cerebrospinal fluid (CSF) management.

**Antibiotic-Impregnated Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 80 cm) **with;**

- Stylet
- Fixation Tab
- Luer Lock Connector and Distal Tip
- Angled Trocar

**Drainage System with;**

- 60 cm reinforced cord with integrated locking mechanism
- 30 cm measurement scale for accurate CSF pressure monitoring (mmHg / cmH<sub>2</sub>O)
- 150 ml drip chamber
- 800 ml drainage bag with air filter
- Two (x2) three-way connectors
- Hydrophobic Filter

| Reference Code | Product Description               |
|----------------|-----------------------------------|
| ENDS-AC-020    | Advanced EVD set with AI catheter |



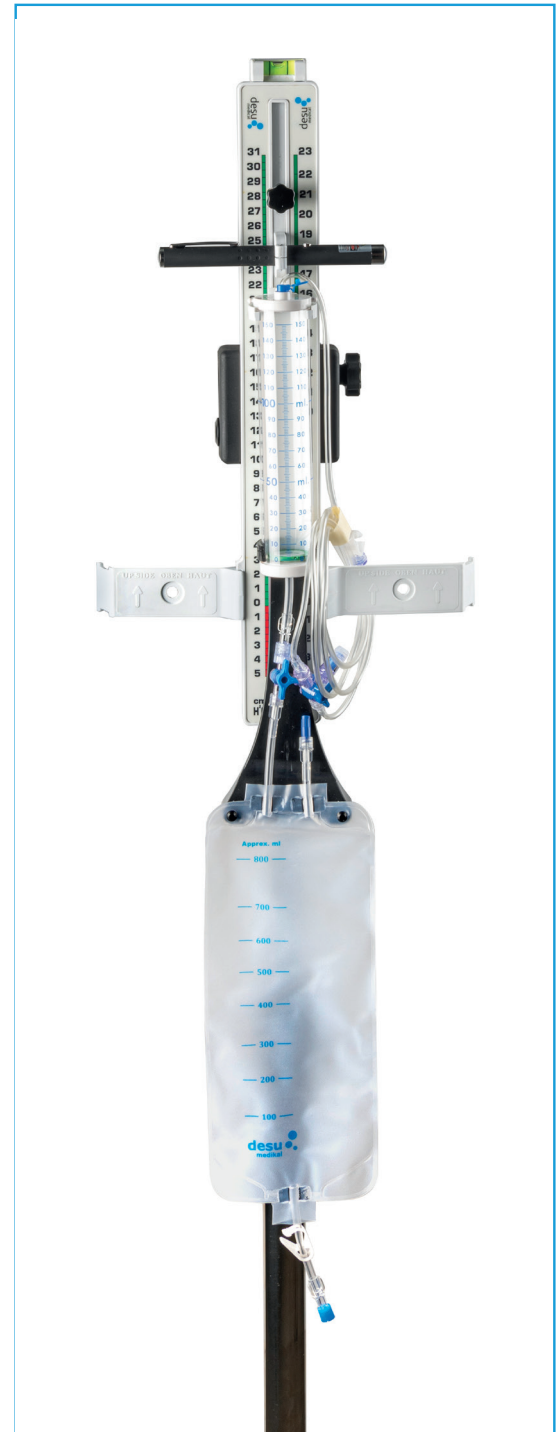
Antibiotic Impregnated Ventricular Catheter

Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet



# External Ventricular Drainage System

## With Ventricular Catheter Included

The Barium-Impregnated External Ventricular Catheter is offered together with a compatible drainage system for controlled cerebrospinal fluid (CSF) management.

**Barium Impregnated Standard Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- Stylet
- Fixation Tab
- Luer Lock Connector and Distal Tip
- Angled Trocar

### Drainage System Components;

- 60 cm reinforced cord with locking mechanism
- 30 cm graduated measurement scale for CSF pressure adjustment (mmHg / cmH<sub>2</sub>O)
- 150 ml drip chamber
- 800 ml drainage bag with air filter
- Two (x2) three-way connectors
- Hydrophobic filter

| Reference Code | Product Description            |
|----------------|--------------------------------|
| ENDS-C-020     | Advanced EVD set with catheter |

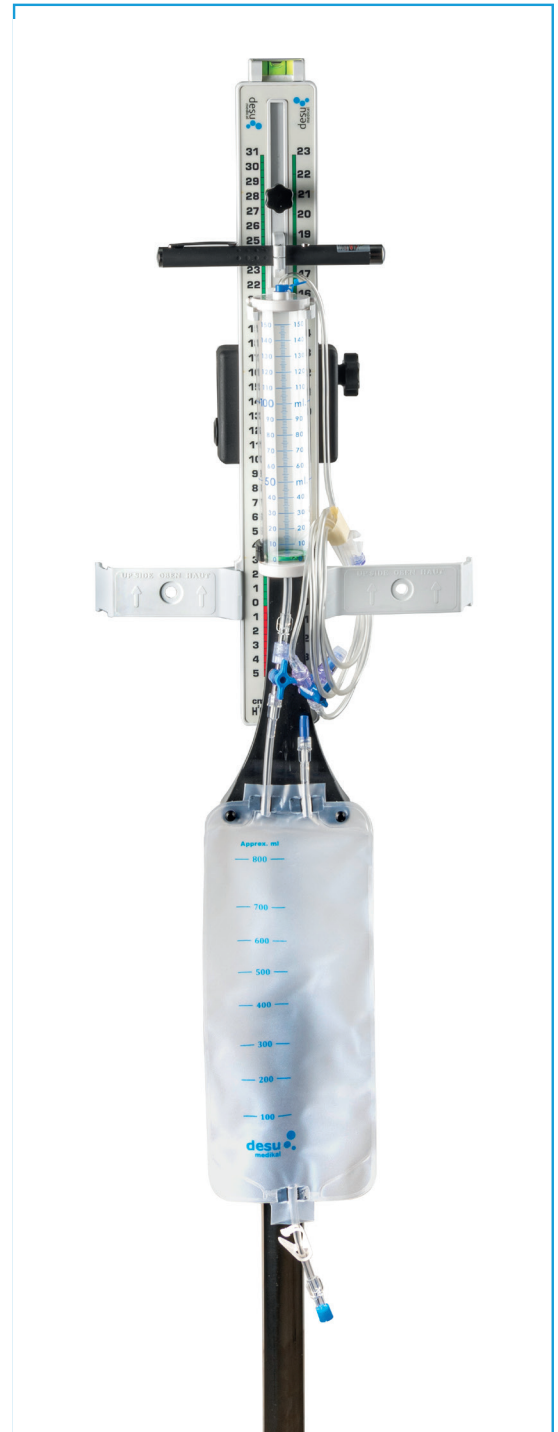
Ventricular Catheter

Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet



# External Lumbar Drainage System

## With Antibiotic Impregnated Lumbar Catheter

The Antibiotic Impregnated External Lumbar Drainage Catheter is provided with a special drainage system for effective and sterile cerebrospinal fluid (CSF) management.

**Antibiotic Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 31 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

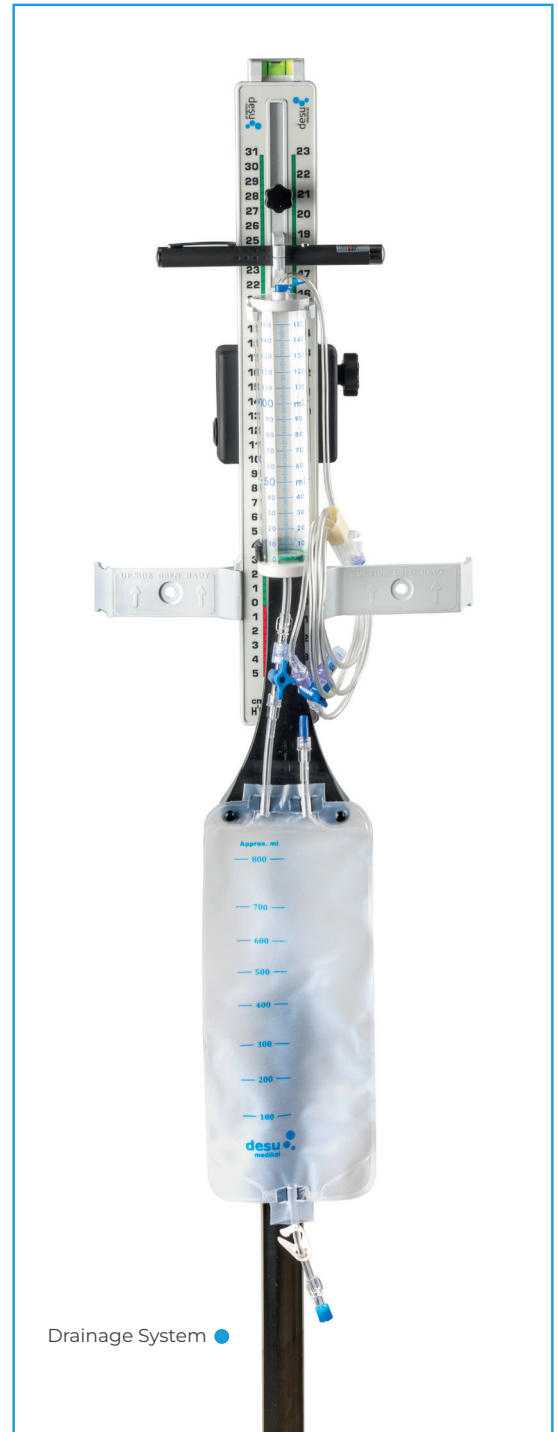
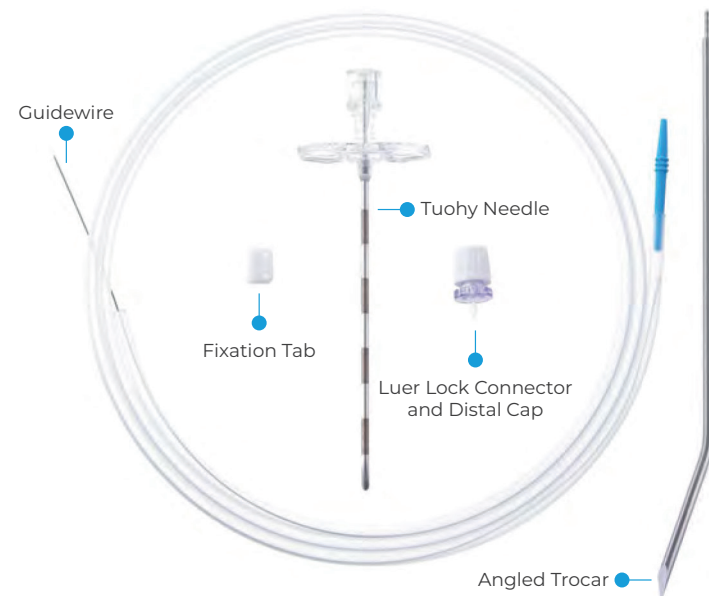
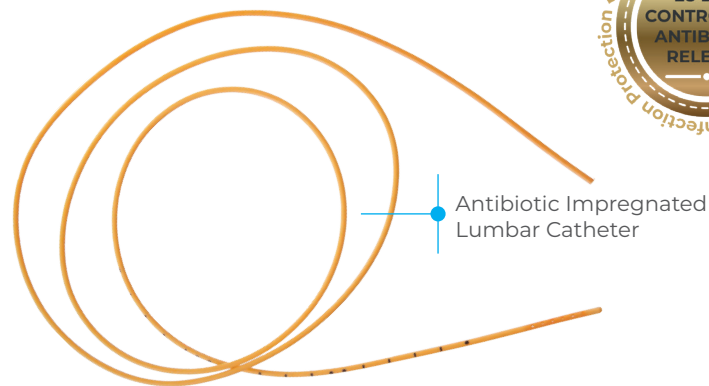
**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

| Reference Code | Product Description |
|----------------|---------------------|
|----------------|---------------------|

**LACK-ENDS-020**

Advanced EVD set with AI catheter



# External Lumbar Drainage System

## With Ventricular Catheter

Barium Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

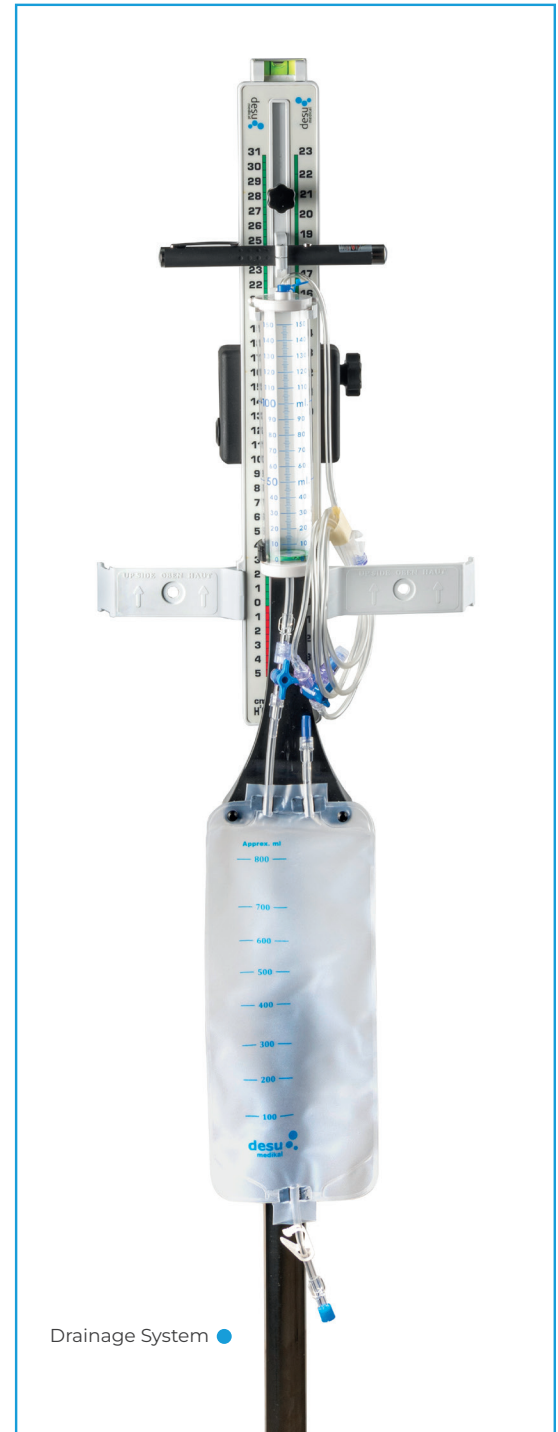
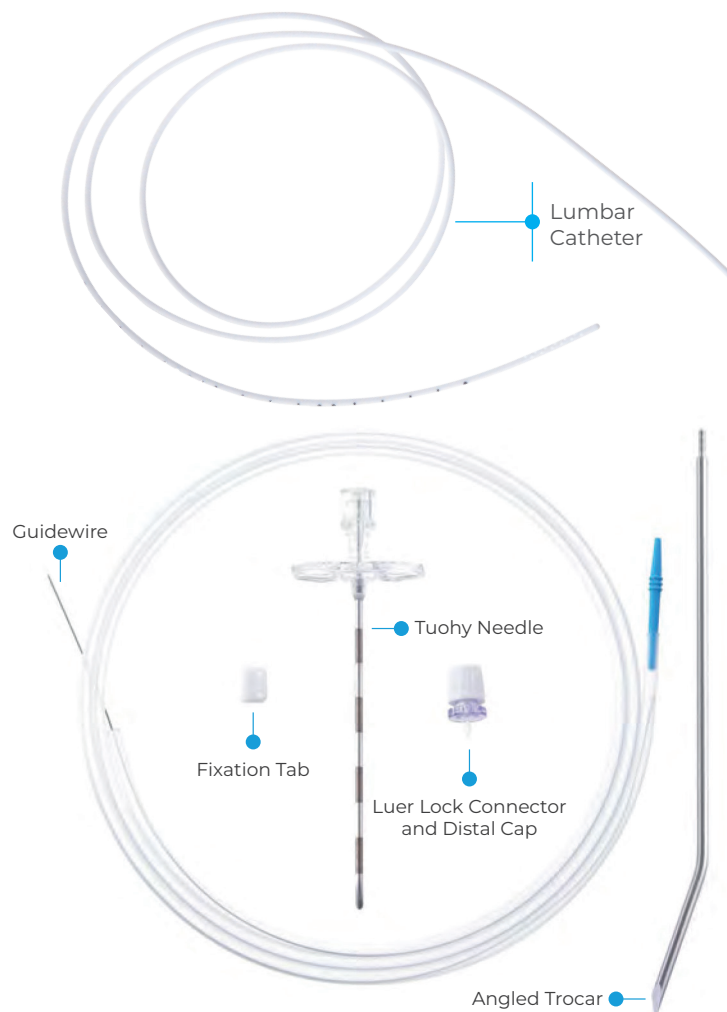
**Barium Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 31 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

| Reference Code | Product Description            |
|----------------|--------------------------------|
| LCK-ENDS-020   | Advanced EVD set with catheter |



Drainage System ●

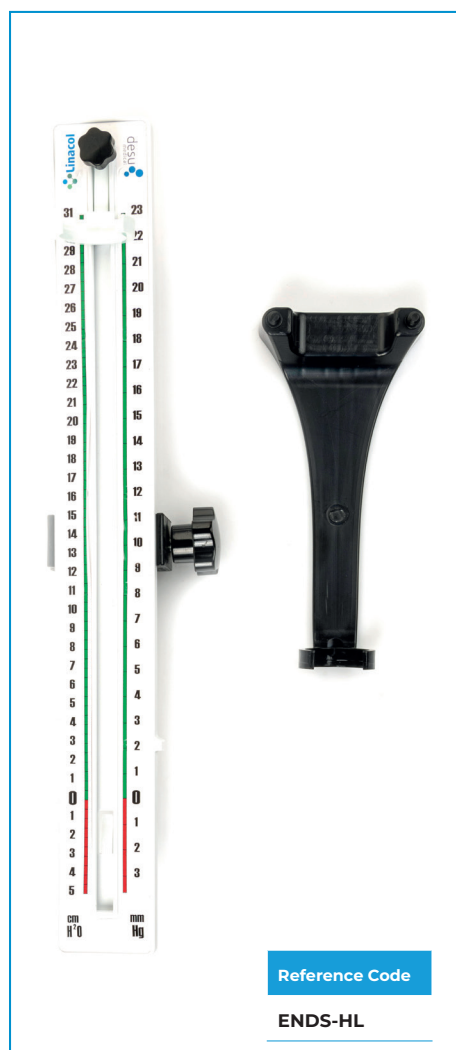


# Compatible Accessories for ENDS-020

Enhance your setup with precision-engineered accessories designed to complement the ENDS-020 drainage system.

Each component supports ease of use, accurate alignment, and consistent performance across clinical environments.

Select the tools that best suit your clinical routine and elevate procedural efficiency.





# 800 ml Air-Filtered Drainage Bag

Sterile, Reliable, and Available in Multiple Pack Options

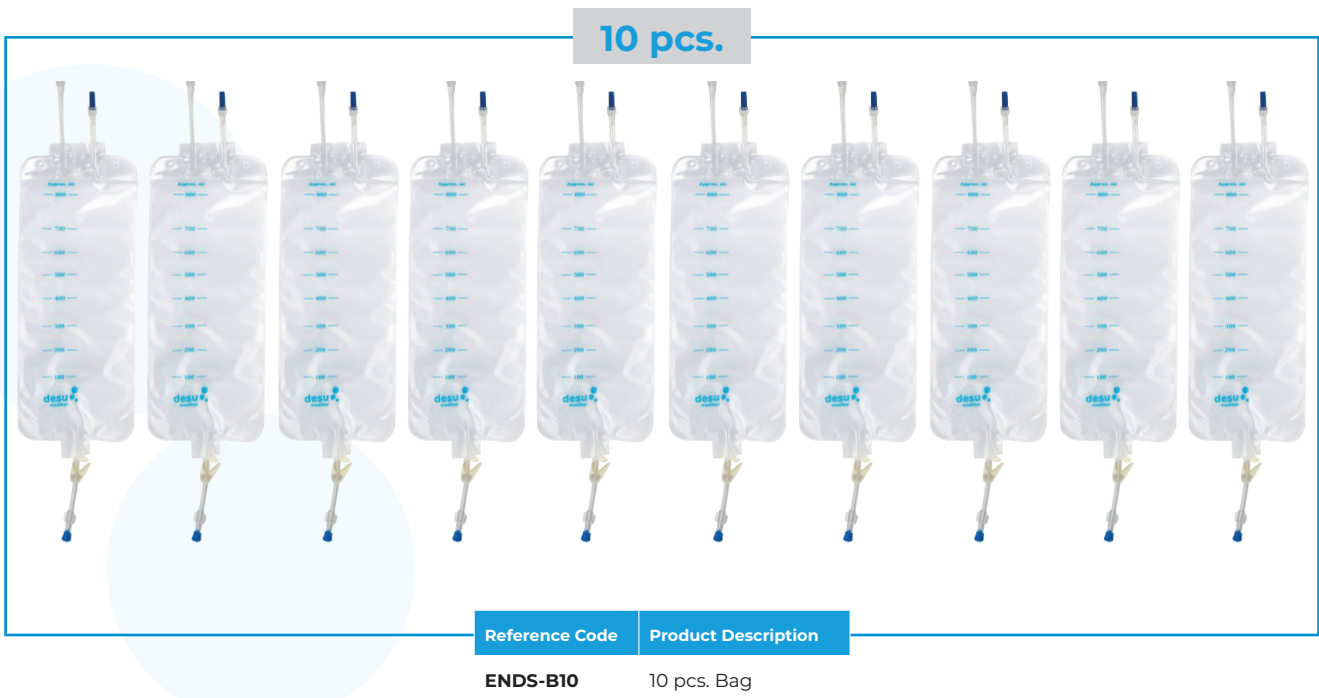
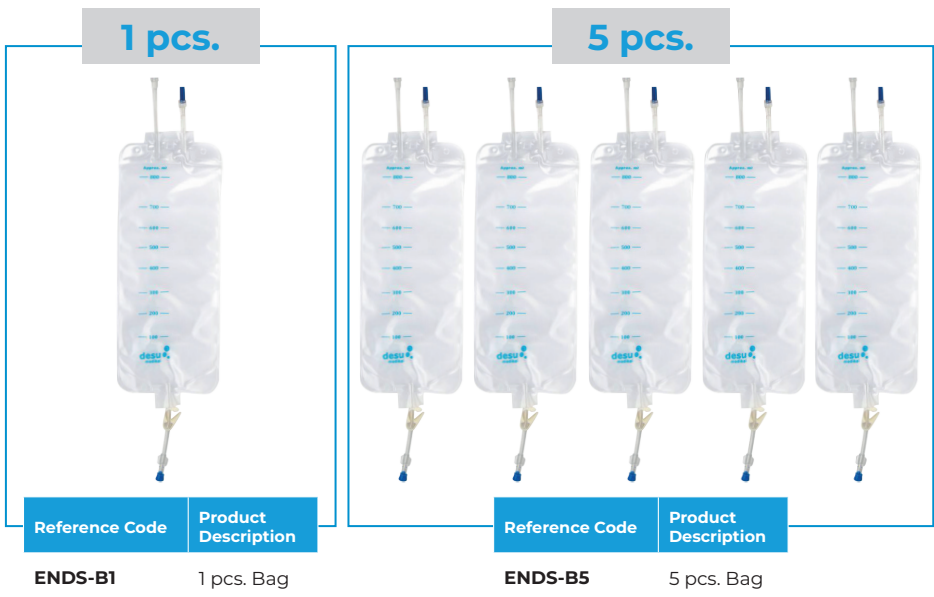
The **800 ml air-filtered drainage bag** is specifically designed for effective cerebrospinal fluid (CSF) drainage, featuring an integrated air filter to reduce the risk of infection. Its high-volume capacity and leak-proof construction make it ideal for extended drainage needs in clinical settings.

## Key Features:

- 800 ml fluid capacity
- Integrated air filter for enhanced infection control
- Clear, durable bag for easy fluid level monitoring
- Compatible with all external drainage systems
- Sterile and single-use

## Available Packaging Options:

- **ENDS-B1** → 1 pcs. Bag
- **ENDS-B5** → 5 pcs. Bag
- **ENDS-B10** → 10 pcs. Bag







Smart Solutions.  
Healthier Lives.  
**Precision.**  
**Protection.**  
**Desu.**

[www.desu.tr](http://www.desu.tr)







# Neurosurgical Catheters

Catheter Systems are designed to be used with shunt or drainage systems for the controlled drainage of cerebrospinal fluid (CSF).



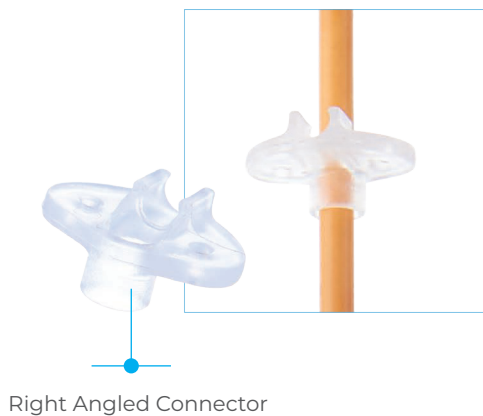
# Ventricular Catheter Kit

Catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 15th. At the proximal end of the catheter, there are 6 drainage holes along 4 rows.

Ventricular Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Ventricular Catheter Kit included with;

- **Ventricular Catheter** (ID: 1.3 mm | OD: 2.5 mm | L: 23 cm)
- **Stylet**
- **Right-Angled Connector**



Right Angled Connector

Antibiotic Impregnated  
Ventricular Catheter



Barium Impregnated  
Standard Ventricular Catheter

| Reference Code | Product Description     |
|----------------|-------------------------|
| <b>SVCK</b>    | Ventricular Catheter    |
| <b>ASVCK</b>   | AI Ventricular Catheter |



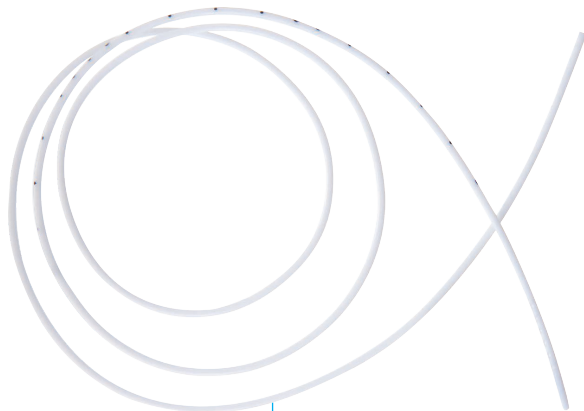
# Peritoneal Catheter Kit

Peritoneal Catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 20th. At the proximal end of the catheter, there are 6 drainage holes along 4 rows.

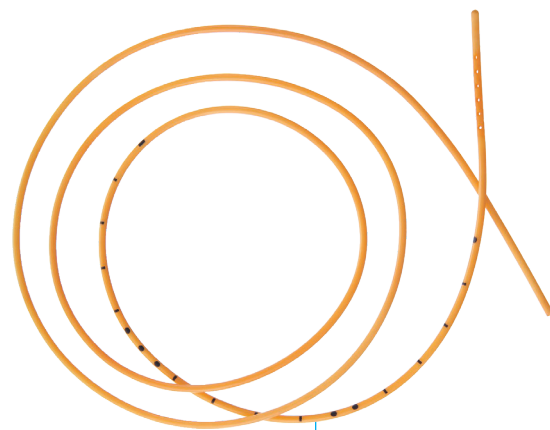
Peritoneal Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Peritoneal Catheter Kit included with;

- **Peritoneal Catheter** (ID: 1.1 mm | OD: 2.5 mm | L: 120 cm)



Peritoneal Catheter



Antibiotic Impregnated Peritoneal Catheter



| Reference Code | Product Description    |
|----------------|------------------------|
| SPCK           | Peritoneal Catheter    |
| ASPK           | AI Peritoneal Catheter |

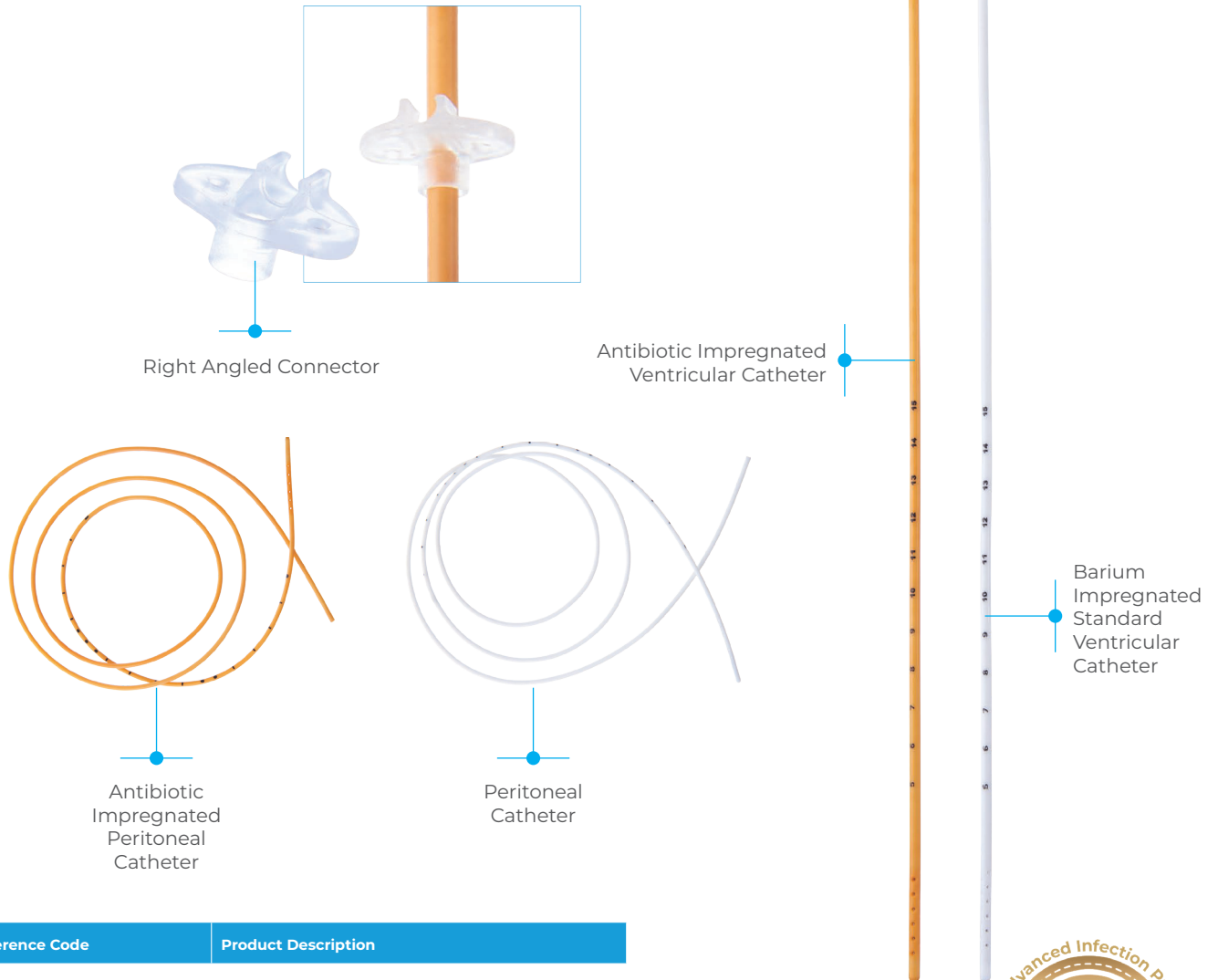
# Ventriculoperitoneal Catheter Kit

Ventriculoperitoneal Catheters are made of barium silicon material. Tantalum length markings are located on the Ventricular Catheter in each centimeter from the 5th centimeter of the catheter to 15th, on the Peritoneal Catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Ventriculoperitoneal Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Ventriculoperitoneal Catheter Kit Includes:

- **Ventricular Catheter** (ID: 1.3 mm | OD: 2.5 mm | L: 23 cm)
- **Peritoneal Catheter** (ID: 1.1 mm | OD: 2.5 mm | L: 120 cm)
- **Stylet**
- **Right-Angled Connector**



| Reference Code | Product Description              |
|----------------|----------------------------------|
| <b>SVPCCK</b>  | Ventriculoperitoneal Catheter    |
| <b>ASVPCK</b>  | AI Ventriculoperitoneal Catheter |

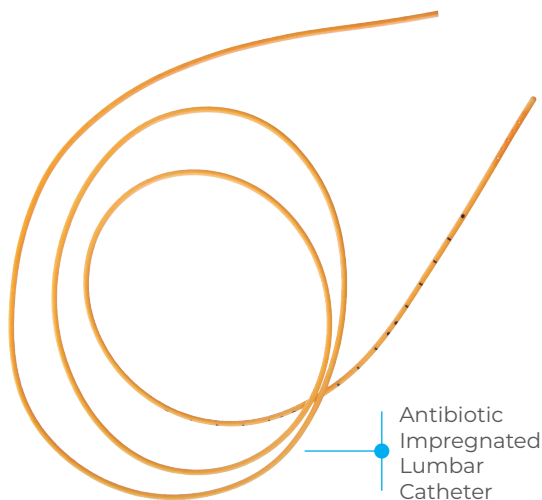
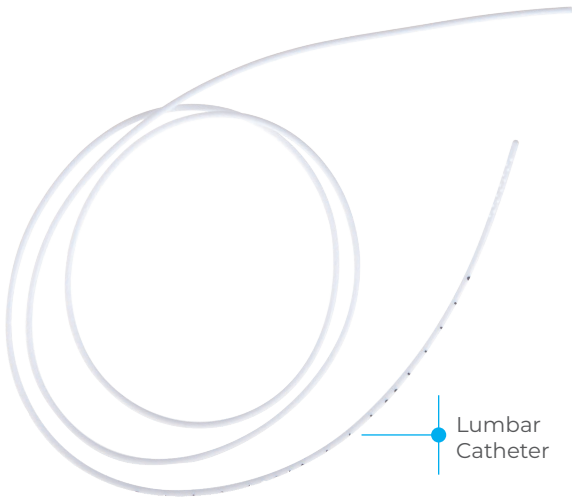
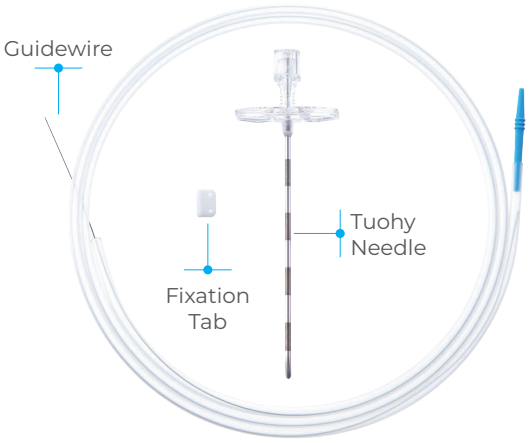
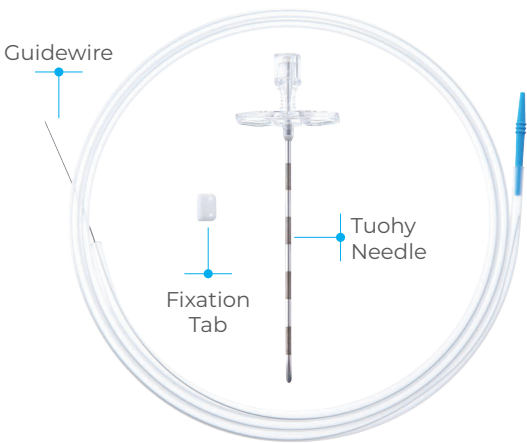


# Lumbar Catheter Kit

Lumbar catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

**Lumbar Catheter Kit Includes:**

- **Lumbar Catheter** (ID: 0.8 mm | OD: 1.6 mm | L: 100 cm)
- **14G Tuohy Needle**
- **Guidewire**
- **Fixation Tab**



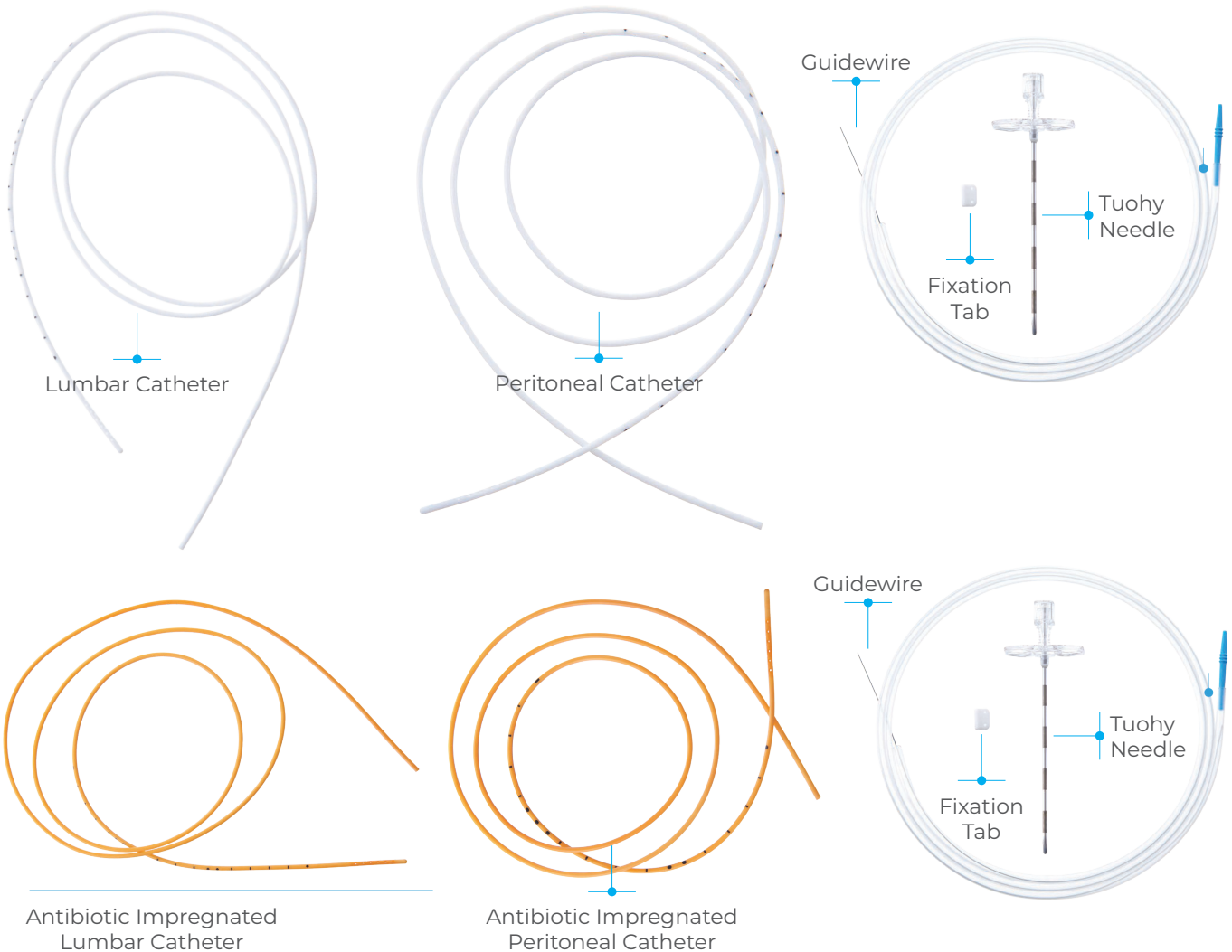
| Reference Code | Product Description                                     |
|----------------|---|
| LCK            | Lumboperitoneal Catheter Kit                            |
| LACK           | AI Lumbaperitoneal Catheter (ID:0.8 OD:1.6 mm L:100 cm) |

# Lumboperitoneal Catheter Kit

Lumboperitoneal Catheters are made of barium silicon material. Tantalum length markings are located on the Lumbar Catheter in each centimeter from the 5th centimeter of the catheter to 20th, on the Peritoneal Catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

## Lumboperitoneal Catheter Kit included with;

- **Lumbar Catheter:** (ID: 0.8 mm OD: 1.6 mm L: 100 cm)
- **Peritoneal Catheter:** (ID: 1.1 mm OD: 2.5 mm L: 120 cm)
- **14G Tuohy Needle**
- **Guidewire**



| Reference Code | Product Description |
|----------------|---------------------|
| LPCK           | Lumbar Catheter     |
| LPACK          | AI Lumbar Catheter  |



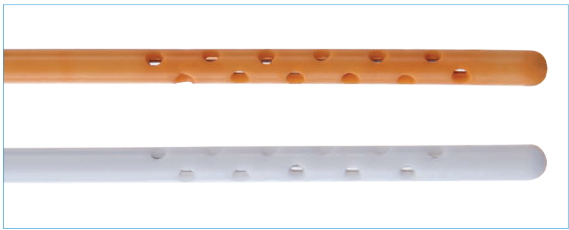
# Ventricular Catheter Kit

Catheters are made of barium silicon material. Tantalum length markings are located on the Lumbar Catheter in each centimeter from the 5th centimeter of the catheter to 15th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Ventricular Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Ventricular Catheter Kit included with;

- **Ventricular Catheter**
- **Stylet**
- **Angled Trocar**
- **Luer Lock Connector**
- **Distal Cap**



Ventricular Catheter Kit

Antibiotic Impregnated Ventricular Catheter Kit

## Ventricular Catheters

| Catheter Description                                   | Length (cm) | I.D. (mm) | O.D. (mm) |
|--|-------------|-----------|-----------|
| External Ventricular Catheter Standard / with AI       | 31          | 1,5       | 3         |
| External Ventricular Catheter Standard / with AI       | 35          | 1,5       | 3         |
| External Ventricular Catheter Standard / with AI       | 35          | 1,9       | 3,4       |
| External Ventricular Clear Catheter Standard / with AI | 35          | 1,9       | 3,4       |

| Reference Code         | Product Description  |
|------------------------|--|
| <b>EVDCK-1530310</b>   | External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:31 cm)    |
| <b>EVDACK-1530310</b>  | AI External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:31 cm) |
| <b>EVDACK-1530350</b>  | AI External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:35 cm) |
| <b>EVDACKS-1934350</b> | AI External Ventricular Drainage Catheter (ID:1.9 OD:3.4 mm L:35 cm) |
| <b>EVDCAK-1934350</b>  | AI External Ventricular Drainage Catheter (ID:1.9 OD:3.4 mm L:35 cm) |



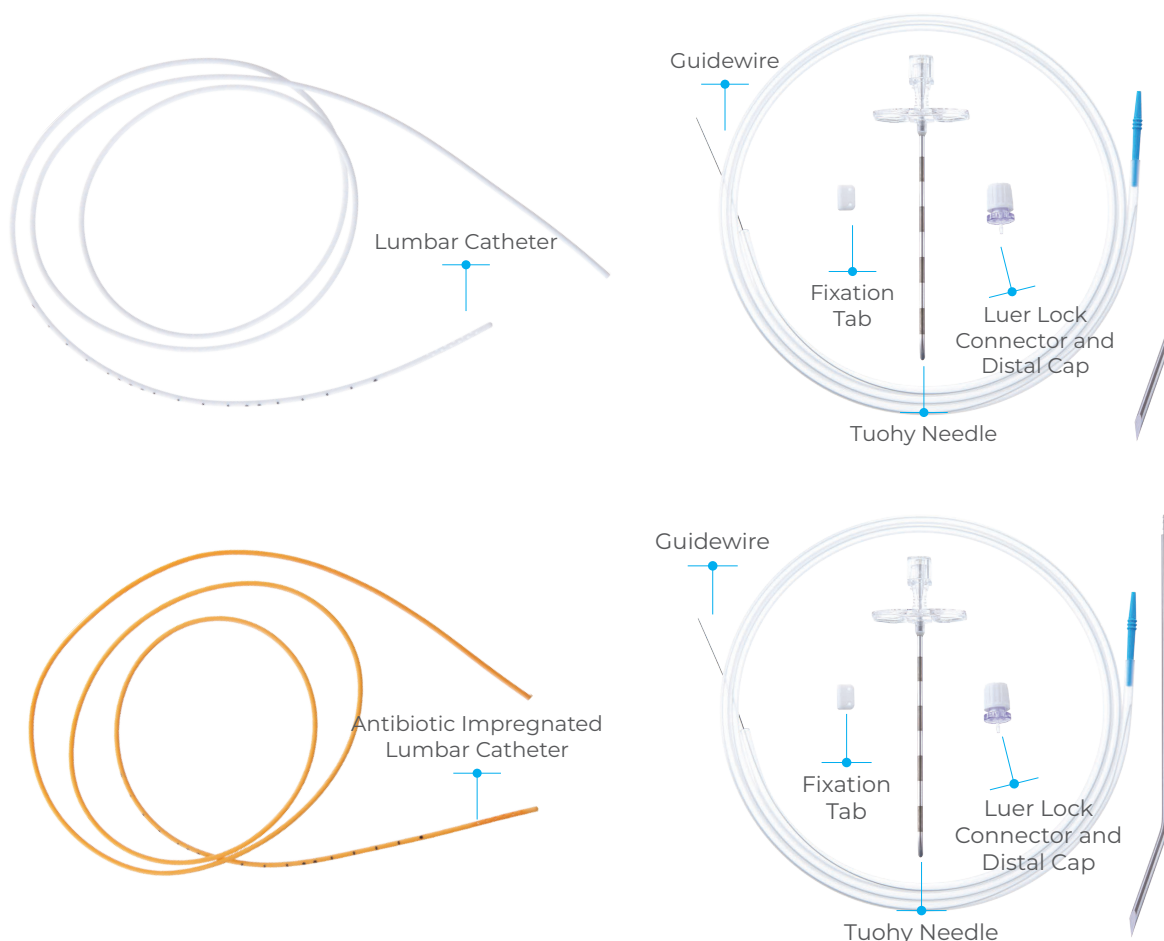
# Lumbar Catheter Kit

Lumbar Catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Lumbar Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Lumbar Catheter Kit included with;

- **Lumbar Catheter:** (ID: 0.8 mm OD: 1.6 mm L: 80 cm)
- **Tuohy Needle**
- **Guidewire**
- **Angled Trocar**
- **Luer Lock Connector**
- **Fixation Tab**



| Reference Code | Product Description         |
|----------------|-----------------------------|
| ELCK           | External Lumbar Catheter    |
| ELACK-1608800  | AI External Lumbar Catheter |





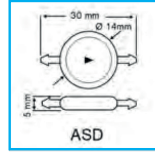
## **Neurosurgical Product Accessories**



# Antisiphon Device

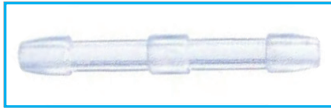
Antisiphon device is used to avoid from siphon effect that may occur when the peritoneal catheter turn to vertical position from horizontal during the drainage or shunting of the cerebrospinal fluid.

The basic principle is to create an immediate closure effect to prevent excess drainage when the siphon effect occurs.



## Straight Catheter Connector

It is a subsidiary accessory used to connect different catheter parts during surgery when needed.



## L Type Catheter Connector

It is a subsidiary accessory used to guide the Ventricular / Peritoneal Catheter when needed without causing kinking and clogging, also to connect different catheter parts together during surgery.



## Y Type Catheter Connector

It is a subsidiary accessory used to combine two shunts with a peritoneal catheter if needed, also provide output for two peritoneal catheters from a shunt, or to provide two ventricular catheter input into a shunt.



| Reference Code | Product Description               |
|----------------|-----------------------------------|
| ASD            | Antisifon Device                  |
| PPCCO          | Straight Catheter Connector       |
| PPRAC          | L Type Catheter Connector         |
| PP3WCCO        | Y Type (3-way) Catheter Connector |





## **Dura Grafts**

**DECOLL<sup>®</sup>**

COLLAGEN BASED DURAL GRAFT

**DURASHEET<sup>®</sup>**

COLLAGEN BASED DURAL GRAFT MATRIX

desu 

# DECOLL

## Collagen Dura Membrane

Decoll is designed for the substitute of a dura when repairing the defects on the dura mater.

- It is a collagen barrier produced from ultra pure type-1 bovine collagen (contains > 95.5 % type-1 collagen)
- Collagen-based, biodegradable to assist in fast healing
- Usable for various CSF pressure levels so it can be applied to a wide variety of cases
- Prevent the leakage a lot better than existing devices due to its impermeable pore structure
- It can be used as onlay
- Sterilized with Gamma
- A ready-to-use product that does not require pre-processing
- It can be used to treat dural defects due to surgical operations such as spinal tumor, trauma meningocele, myelomeningocele and lipoma



**DECOLL  
COLLAGEN  
DURA  
MEMBRANE**



Designed in various dimensions and are available to use in different size dural and spinal defects.

| Reference Code   | Product Description                      |
|------------------|--|
| <b>DCL2525</b>   | DECOLL Collagen Dura Membrane 2.5x2.5 cm |
| <b>DCL5050</b>   | DECOLL Collagen Dura Membrane 5x5 cm     |
| <b>DCL7575</b>   | DECOLL Collagen Dura Membrane 7.5x7.5 cm |
| <b>DCL100100</b> | DECOLL Collagen Dura Membrane 10x10 cm   |



# DURASHEET

## Collagen Dura Membrane

Durasheet is designed for the substitute of a dura when repairing the defects on the dura mater.

- It is a collagen barrier produced from ultra pure type-1 bovine collagen (contains > 95.5 % type-1 collagen)
- Collagen-based, biodegradable to assist in fast healing
- Usable for various CSF pressure levels so it can be applied to a wide variety of cases
- Prevent the leakage a lot better than existing devices due to its impermeable pore structure
- It can be used as onlay
- Sterilized with Gamma
- A ready-to-use product that does not require pre-processing
- It can be used to treat dural defects due to surgical operations such as spinal tumor, trauma meningocele, myelomeningocele and lipoma

### HIGHLIGHTS OF DURASHEET:

- More suturable
- More tensile strength
- Used in both surfaces
- High absorption capacity



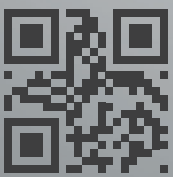
Designed in various dimensions and are available to use in different size dural and spinal defects.

| Reference Code   | Product Description                         |
|------------------|---|
| <b>DRS2525</b>   | DURASHEET Collagen Dura Membrane 2.5x2.5 cm |
| <b>DRS5050</b>   | DURASHEET Collagen Dura Membrane 5x5 cm     |
| <b>DRS7575</b>   | DURASHEET Collagen Dura Membrane 7.5x7.5 cm |
| <b>DRS100100</b> | DURASHEET Collagen Dura Membrane 10x10 cm   |





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Solutions into Lives.**



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## Collagen Based Graft Solutions

**DEBONE<sup>®</sup>**

Collagen Based Bone Graft

**XENOBONE<sup>®</sup>**

Collagen Bone Graft Matrix

**COLL-OS<sup>®</sup>**

Collagen Barrier Membrane



# DEBONE

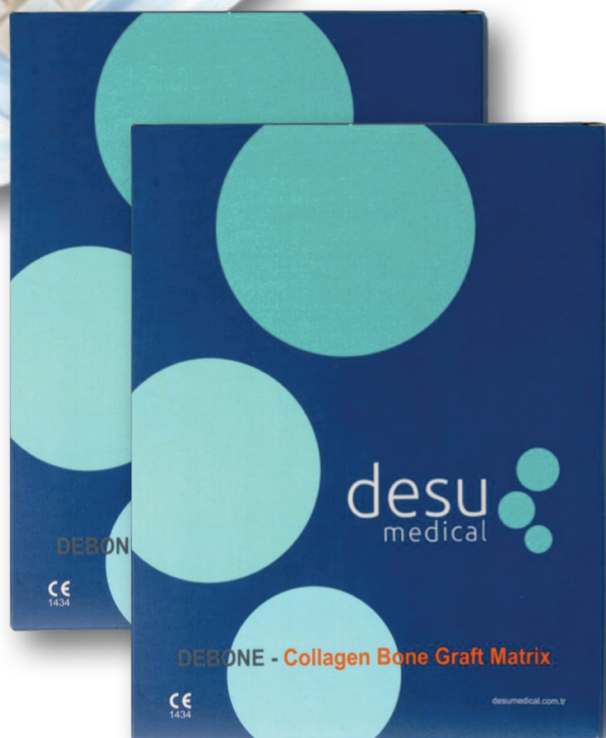
## Collagen Based Bone Graft

COLLOS is designed for the substitute of a membrane when repairing the defects.

- DEBONE consists of Type 1 bovine collagen.
- B-TCP is added.
- Bioabsorbable
- It is an osteoconductive bone matrix containing more than 95% collagen.
- Supports osteoinductive properties thanks to type-1 collagen molecules in its structure, • Creates a growth matrix for osteoblasts
- Contributes to bone development.
- Used to help repair all bone defects
- It is designed in two different forms as granule and sponge to adapt to different bone defects.



| Reference Code        | Product Description |
|-----------------------|---------------------|
| <b>DBN-0715W-5CC</b>  | 5cc / 0.7-1.5mm     |
| <b>DBN-23W-5CC</b>    | 5cc / 2-3mm         |
| <b>DBNG-5C-D03</b>    | 5cc / 3-5mm         |
| <b>DBNG-5C-D04</b>    | 5cc / 6-7mm         |
| <b>DBN-0715W-10CC</b> | 10cc / 0.7-1.5mm    |
| <b>DBN-23W-10CC</b>   | 10cc / 2-3mm        |
| <b>DBNG-10C-D03</b>   | 10cc / 4-5mm        |
| <b>DBNG-10C-D04</b>   | 10cc / 6-7mm        |
| <b>DBN-0715W-15CC</b> | 15cc / 0.7-1.5mm    |
| <b>DBN-23W-15CC</b>   | 15cc / 2-3mm        |
| <b>DBNG-15C-D03</b>   | 15cc / 3-5mm        |
| <b>DBNG-15C-D04</b>   | 15cc / 6-7mm        |
| <b>DBN-0715W-20CC</b> | 20cc / 0.7-1.5mm    |
| <b>DBN-23W-20CC</b>   | 20cc / 2-3mm        |
| <b>DBNG-20C-D03</b>   | 20cc / 3-5mm        |
| <b>DBNG-20C-D04</b>   | 20cc / 6-7mm        |
| <b>DBN-0715W-30CC</b> | 30cc / 0.7-1.5mm    |
| <b>DBN-23W-30CC</b>   | 30cc / 2-3mm        |
| <b>DBNG-30C-D03</b>   | 30cc / 3-5mm        |
| <b>DBNG-30C-D04</b>   | 30cc / 6-7mm        |





# XENOBONE

## Bovine-Derived Collagen Graft

It is a B-TCP supplemented, bioabsorbable osteoconductive bone matrix consisting of Xenobone type-1 bovine collagen and containing more than 95% collagen. Thanks to the type-1 collagen molecules in its structure, it supports osteoinductive properties, creates a growth matrix for osteoblasts and contributes to bone development.



| Reference Code | Product Description                                  |
|----------------|--|
| XBN-0715W-5CC  | Collagen Based Animal Derived Bone Graft 0,7 - 1,5mm |
| XBN-23W-5CC    | Collagen Based Animal Derived Bone Graft 2-3mm       |
| XBN-45W-5CC    | Collagen Based Animal Derived Bone Graft 4-5mm       |

# COLL-OS

## Collagen Barrier Membrane

COLL-OS is designed for the substitute of a membrane when repairing the defects.

- It is a collagen barrier produced from ultra pure type-1 bovine collagen (contains > 95.5 % type-1 collagen)
- Collagen-based, biodegradable to assist in fast healing
- Usable for various CSF pressure levels so it can be applied to a wide variety of cases
- Prevent the leakage a lot better than existing devices due to its impermeable pore structure
- It can be used as onlay
- Sterilized with Gamma
- A ready-to-use product that does not require pre-processing
- It can be used to treat dural defects due to surgical operations such as spinal tumor, trauma meningocele, myelomeningocele and lipoma

**COLL-OS  
COLLAGEN  
BARRIER  
MEMBRANE**



Designed in various dimensions and are available to use in different size dural and spinal defects.

| Reference Code  | Product Description                   |
|-----------------|---------------------------------------|
| <b>CLS12525</b> | Collagen Barrier Membrane 1.25x2.5 cm |
| <b>CLS152</b>   | Collagen Barrier Membrane 1.5x2 cm    |
| <b>CLS23</b>    | Collagen Barrier Membrane 2x3 cm      |
| <b>CLS2525</b>  | Collagen Barrier Membrane 2.5x2.5 cm  |



# Kibo® Intracranial Pressure Monitoring System

The Linacol® Intracranial Pressure Measurement Kit is used when an increase or decrease in intracranial pressure needs to be observed.

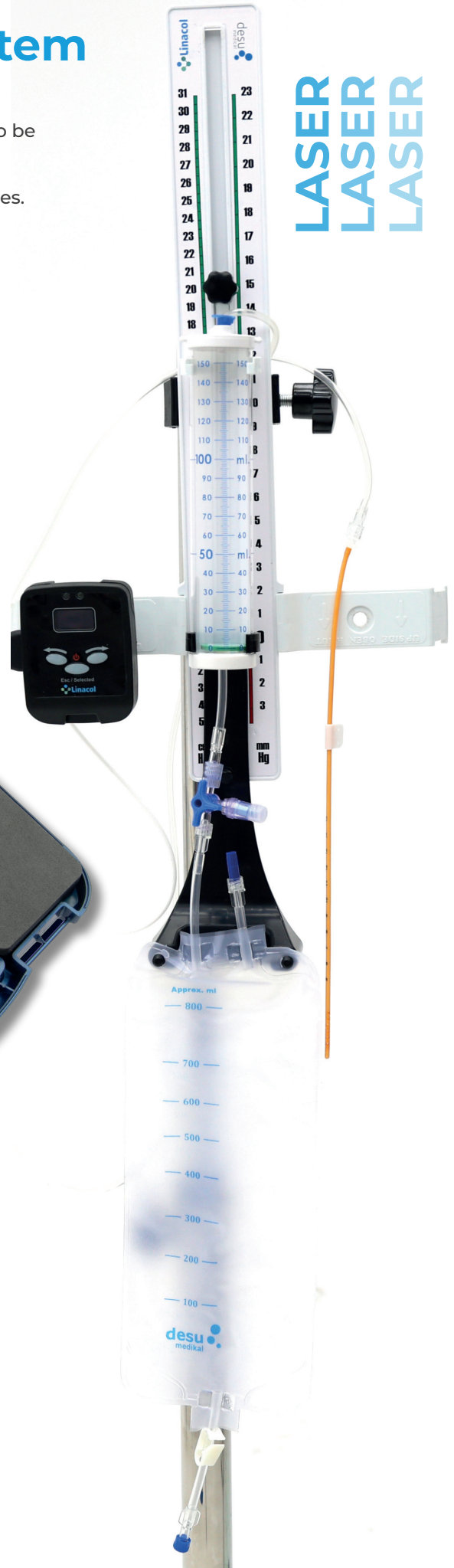
KIBO® is a kit that digitally measures intracranial pressure values.

KIBO® is used with a digital measuring device and measuring sensor.

Simple installation process,

High accuracy and reliability with laser pointer, digital view,

Monitoring the intracranial pressure values in cm H<sub>2</sub>O unit.



**LASER  
LASER  
LASER**

| Reference Code | Product Description     |
|----------------|-------------------------|
| KIBO           | ICP Monitor             |
| KICP-001       | EVD set with ICP sensor |



# DeFix Bone Cement

DeFix® is a Radiopaque, PMMA-based bone cement with antibiotic or standard variants. It is used in a wide variety of medical procedures, such as joint replacements or cataract surgeries in the eyes.

While the prosthetic bonds the joint and bone together, it remains flexible enough to allow movement and absorb forces acting on the body. It is also used to reshape lost bone and fill gaps in bones.

| Reference Code     | Product Description              | Content                |
|--------------------|----------------------------------|------------------------|
| <b>DeFix SM40</b>  | DEFIX Standard Bone Cement       | 40gr / Standard        |
| <b>DeFix SAM40</b> | DEFIX Standard Bone Cement       | 40gr / with Antibiotic |
| <b>DeFix SH20</b>  | DEFIX Vertebroplasty Bone Cement | 20gr / Standard        |
| <b>DeFix SH40</b>  | DEFIX Vertebroplasty Bone Cement | 40gr / Standard        |

**EASY TO USE**

**BIOCOMPATIBLE**



**HIGH RADIO-OPACITY**

**APPROPRIATE WORKING TIME**

DeFix® Vertebroplasty Bone Cement

Standard / Antibiotic

DeFix® Vertebroplasty Bone Cement is indicated for fixation of pathological fractures of the vertebral body (vertebroplasty and kyphoplasty).

DeFix® Vertebroplasty Bone Cement is indicated for fixation of pathological fractures of the vertebral body (vertebroplasty and kyphoplasty).



# Cranioplasty Bone Cement

## Standard

Poly-methyl-methacrylate (PMMA) is the most widely used biomaterial for cranioplasty.

The product has two main components: liquid monomer and powdered polymer.

The powder contains PMMA with dibenzoyl peroxide, a bariumsulfate radiopacifier, and gentamicin as an antibiotic.

| Reference Code | Product Description            | Content         |
|----------------|--------------------------------|-----------------|
| DeFix SL20     | DEFIX Cranioplasty Bone Cement | 20gr / Standard |
| DeFix SL40     | DEFIX Cranioplasty Bone Cement | 40gr / Standard |





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