High Flow Family

Short Term Dialysis Catheters
High Flow Triple Lumen 13.5 Fr

Unique tip design, superior to the classic sidehole design:
- Clotting risk is considerably reduced
- Adhesion risk to the vessel wall considerably reduced
- Less complications during the treatment of septic patients
- Easy implantation due to tapered tip design

Large inner lumen:
- High blood flow
- More flexibility concerning the pump speed because lower pressure settings are possible

Third lumen:
- Fluid administration, vasoactive drug therapy, nutrition, blood sampling
- Infusion rates up to 5 ml/sec. or 300 psi are possible

High Flow Triple Lumen 13.5 Fr

* Measured in Ringer’s solution calculated for blood
High Flow Double Lumen 11 Fr & 13 Fr

Pre-loaded stylet: Easy and atraumatic insertion

11 Fr

The new design for slow acute dialysis therapies:
- The new lumen with 11 Fr allows adequate blood flow with lower pressure rates

The special Tip-Design:
- Minimizes the insertion trauma
- Reduced clotting due to front standing openings
- Adhesion risk to the vessel wall considerably reduced

13 Fr

The best design for faster acute dialysis therapies:
- Larger inner diameters allow perfect flow rates
- More flexibility concerning the pump speed because lower pressure settings are possible

Catheter tip without sideholes:
- Reduced clotting

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High Flow Double Lumen 11 Fr & 13 Fr

![Graph showing flow vs. pressure for 11 Fr and 13 Fr catheters.](image)
High Flow Double Lumen Precurved 13 Fr

The new generation of precurved catheters:
- Larger inner diameter allows higher flow rates
- Tip design without sideholes ensures less clotting

High Flow Double Lumen Precurved 13 Fr

* Measured in Ringer’s solution calculated for blood
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Further advantages of our High Flow Catheters

- Thermosensitive polyurethane Tecoflex®: After implantation the catheter shaft and tip become softer and therefore reduce the risk of vessel wall irritation

- Radiopaque catheter shaft: ensures X-ray visibility

- Swiveling suture ring avoids skin irritations

- Safety clamps, with side-protection, preventing the extension-tube from slipping out. Indication of priming volume, Fr-size and length with a durable printing quality

- MRI compatible

All kits include

Example kit High Flow Double Lumen 13 Fr

1 Catheter
2 Kink resistant J-Guide wire (Nitinol)
3 Introducer needle 18 G
4 Dilator
5 Luer Lock injection caps

Kink resistant guide wire

The new generation of Nitinol Seldinger Guide

The high content of titanium ensures extremely high flexibility and kink resistance. Additional comfort is provided by PTFE coating, which guarantees a smooth surface and best gliding.
**High Flow Family**

**Ordering Information**

**High Flow Triple Lumen 13.5 Fr**

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<th>Curved Extensions</th>
<th>pcs. per box</th>
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**High Flow Double Lumen 11 Fr**

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**High Flow Double Lumen 13 Fr**

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**High Flow Double Lumen Precurved 13 Fr**

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