BioFlo DuraMax
Dialysis Catheter with Endexo Technology

Engineered for Excellence
- Optimal Ease of Insertion
- Long Term Patency
Proven to Minimize Thrombus Accumulation, In Vitro.¹

The BioFlo DuraMax® Dialysis Catheter is the first dialysis catheter with Endexo® Technology, providing a catheter material more resistant to the in-vitro accumulation of blood components compared to non-coated conventional dialysis catheters tested (based on platelet count).¹

Endexo Technology

Make protection part of the mix.

• Endexo Technology is a permanent and non-eluting polymer that is “blended” into the polyurethane from which the catheter is made. It is present throughout the extraluminal and intraluminal catheter material, and remains present for the life of the catheter.

• In-vitro blood loop model test results show that on average the BioFlo DuraMax dialysis catheter has 84% less thrombus accumulation on its surface compared to non-coated Palindrome® chronic dialysis catheters (based on platelet count).²

• Results of an in-vivo sheep study during 31-day indwelling time demonstrated that the BioFlo DuraMax dialysis catheter has thromboresistant characteristics comparable to Palindrome H chronic dialysis catheter.³

Extraluminal

Intraluminal

Endexo Technology present throughout the entire blood pathway, including the clear extension tubes.

Curved tip catheter technology reduces vein wall apposition and risk of arterial insufficiency. 3 cm tip stagger reduces recirculation rates.

Thermoplastic polyurethane luers combine toughness, dimensional stability and chemical resistance.

15.5F BioFlo DuraMax catheter facilitates high flow rates at modest arterial pressures. Proprietary lumen, kink resistant design.

Features:

Endexo Technology present throughout the entire blood pathway, including the clear extension tubes.

Curved tip catheter technology reduces vein wall apposition and risk of arterial insufficiency. 3 cm tip stagger reduces recirculation rates.

Thermoplastic polyurethane luers combine toughness, dimensional stability and chemical resistance.

15.5F BioFlo DuraMax catheter facilitates high flow rates at modest arterial pressures. Proprietary lumen, kink resistant design.

Patented angled venous tip and guidewire lumen design positions guidewire in the center of the leading edge of distal tip and provides over-the-wire performance and ease of insertion.
The technology is invisible. The benefits are plain to see.²

**BioFlo DuraMax Dialysis Catheter with Endexo Technology**

Catheter has minimal visible thrombus, fibrin sheath, or clot.

**SEM Images** (Scanning Electron Microscopy)

**Palindrome Chronic Dialysis Catheter**

84% REDUCTION IN THROMBUS ACCUMULATION

**Palindrome H Chronic Dialysis Catheter**

83% REDUCTION IN THROMBUS ACCUMULATION

**BioFlo DuraMax—28 cm Dialysis Catheter**

**Average Pressure vs. Flow Rate**

<table>
<thead>
<tr>
<th></th>
<th>Venous</th>
<th></th>
<th>Arterial</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>200 ml/min</td>
<td>300 ml/min</td>
<td>400 ml/min</td>
</tr>
<tr>
<td></td>
<td>59</td>
<td>90</td>
<td>134</td>
</tr>
</tbody>
</table>

Note: Flow testing represents laboratory results from simulated use testing. A simulated solution representing blood with a viscosity of 3.0 ± 1 cp at 37 ± 5 °C was used for the testing.
BioFlo DuraMax Dialysis Catheter with Endexo Technology

Indications for Use: The BioFlo DuraMax Dialysis Catheter with Endexo Technology is indicated for use in attaining long-term vascular access for hemodialysis and apheresis in adults. Catheters greater than 40 cm are intended for femoral vein insertion.

Contraindications: The catheter is intended for long-term vascular access only and should not be used for any purpose other than indicated in the instructions for use.

Warnings and Precautions: Please see package insert for complete list of warnings and precautions.

Potential Complications: Consult package insert for a complete list of potential complications.

Indications, contraindications, warnings and instructions for use can be found in the instructions for use supplied with each device. Observe all instructions prior to use. Failure to do so may result in patient complications. CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a physician.

### 15.5F Catheter Kits

<table>
<thead>
<tr>
<th>Catheter Length</th>
<th>Tip-to-cuff</th>
<th>Dual Valve Basic Kit</th>
<th>Dual Valve VascPak</th>
<th>Single Valve Basic</th>
<th>Single Valve VascPak</th>
<th>Catheter Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 cm</td>
<td>15 cm</td>
<td>H965103028011</td>
<td>H965103028161</td>
<td>H965103038011</td>
<td>H965103038161</td>
<td>H965103029011</td>
</tr>
<tr>
<td>22 cm</td>
<td>17 cm</td>
<td>H965103028021</td>
<td>H965103028171</td>
<td>H965103038021</td>
<td>H965103038171</td>
<td>H965103029021</td>
</tr>
<tr>
<td>24 cm</td>
<td>19 cm</td>
<td>H965103028031</td>
<td>H965103028181</td>
<td>H965103038031</td>
<td>H965103038181</td>
<td>H965103029031</td>
</tr>
<tr>
<td>28 cm</td>
<td>23 cm</td>
<td>H965103028041</td>
<td>H965103028191</td>
<td>H965103038041</td>
<td>H965103038191</td>
<td>H965103029041</td>
</tr>
<tr>
<td>32 cm</td>
<td>27 cm</td>
<td>H965103028051</td>
<td>H965103028201</td>
<td>H965103038051</td>
<td>H965103038201</td>
<td>H965103029051</td>
</tr>
<tr>
<td>36 cm</td>
<td>31 cm</td>
<td>H965103028061</td>
<td>H965103028211</td>
<td>H965103038061</td>
<td>H965103038211</td>
<td>H965103029061</td>
</tr>
<tr>
<td>40 cm</td>
<td>35 cm</td>
<td>H965103028070</td>
<td>H965103028220</td>
<td>H965103038070</td>
<td>H965103038220</td>
<td>H965103029071</td>
</tr>
<tr>
<td>48 cm</td>
<td>43 cm</td>
<td>H965103028080</td>
<td>H965103028230</td>
<td>H965103038080</td>
<td>H965103038230</td>
<td>H965103029081</td>
</tr>
<tr>
<td>55 cm</td>
<td>50 cm</td>
<td>H965103028090</td>
<td>H965103028240</td>
<td>H965103038090</td>
<td>H965103038240</td>
<td>H965103029091</td>
</tr>
</tbody>
</table>

**BASIC KIT INCLUDES:** (1) BioFlo DuraMax Dialysis Catheter with Endexo Technology, (1) 16F Valved Breakaway Introducer, (1) 12F Dilator, (1) 14F Dilator, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) #11 Blade Safety Scalpel, (1) 0.038” J/Flex Guidewire, (1) Adhesive Wound Dressing, (1) 18 G x 2-3/4” Introducer Needle

**VASCPAK** KIT INCLUDES: (1) BioFlo DuraMax Dialysis Catheter with Endexo Technology, (1) Adhesive Wound Dressing, (1) 16F Valved Peelable Sheath, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) 12F Vessel Dilator, (1) 14F Vessel Dilator

1. The reduction in thrombus accumulation (based on platelet count) is supported by acute in-vitro testing. Pre-clinical in-vitro evaluations do not necessarily predict clinical performance with respect to thrombus formation.
2. Based on benchtop testing up to two hours using bovine blood which may not be indicative of clinical results.

**IMPORTANT RISK INFORMATION**

**BIOFLO DURAMAX DIALYSIS CATHETER WITH ENDEXO TECHNOLOGY**

**INDICATIONS FOR USE:** The BioFlo DuraMax Dialysis Catheter with Endexo Technology is intended for use in attaining long-term vascular access for hemodialysis and apheresis in adults. Catheters greater than 40 cm are intended for femoral vein insertion.

**CONTRAINDICATIONS:** The catheter is intended for long-term vascular access only and should not be used for any purpose other than indicated in the instructions for use.

**WARNINGS AND PRECAUTIONS:** Please see package insert for complete list of warnings and precautions.

**POTENTIAL COMPLICATIONS:** Consult package insert for a complete list of potential complications.

**CAUTION:** Federal Law (USA) restricts this device to sale by or on the order of a physician.