Arrow-Clark

VectorFlow Hemodialysis Catheter

Because in Chronic Hemodialysis Catheters, the Tip Matters
Because in chronic hemodialysis catheters, the tip matters

**Designed for Performance**

- Tip design optimizes catheter flow and minimizes recirculation
- Sidehole design reduces the loss of lock solution¹, a contributing factor in reducing the risk of thrombus adherence²
- Catheter tip design reduces the risk of platelet damage caused by shear stress³, helping to reduce the risk of thrombus accumulation on catheter surface³

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**Minimal Recirculation**
Deflects venous blood away from the catheter, in a direction opposite to blood entering the catheter in arterial lumen
Sidehole Design
Optimizes catheter flow and reduces loss of lock solution

Symmetrical Tip
Allows for ease of placement over guidewire

Easy-to-read Catheter
Information on clamp inserts
VectorFlow Catheter makes it easy for you

**Designed for Ease of Placement and Sustained High Flows**
- No stylet needed for insertion, resulting in fewer steps when compared to catheters requiring a stylet
- Antegrade and Retrograde placement available
- Catheter tip design allows for placement flexibility with minimal impact on recirculation

**Design of catheter**
Allows for tip location flexibility with minimal impact on recirculation

**SVC**

**Mid Right Atrium**

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**Antegrade Catheter Performance**
Recommended Flow Rate and Pressure Range for Catheters Intended for Internal Jugular and Subclavian Insertion

- Flow Rate vs. Pressure Graph

**Retrograde Catheter Performance**
Recommended Flow Rate and Pressure Range for Catheters Intended for Internal Jugular and Subclavian Insertion

- Flow Rate vs. Pressure Graph
### Arrow-Clark VectorFlow Hemodialysis Catheter

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<th>TIP-TO-CUFF INSERTION LENGTH</th>
<th>ANTEGRADE</th>
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<th>TIP-TO-CUFF INSERTION LENGTH</th>
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<tr>
<td>CS-15192-VFE</td>
<td>15 Fr. x 19 cm Retrograde Radiopaque Polyurethane Catheter</td>
<td>19 cm</td>
<td>CS-15192-VFE</td>
<td>15 Fr. x 19 cm Antegrade Radiopaque Polyurethane Catheter</td>
<td>19 cm</td>
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<tr>
<td>CS-15232-VFE</td>
<td>15 Fr. x 23 cm Retrograde Radiopaque Polyurethane Catheter</td>
<td>23 cm</td>
<td>CS-15232-VFE</td>
<td>15 Fr. x 23 cm Antegrade Radiopaque Polyurethane Catheter</td>
<td>23 cm</td>
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<tr>
<td>CS-15272-VFE</td>
<td>15 Fr. x 27 cm Retrograde Radiopaque Polyurethane Catheter</td>
<td>27 cm</td>
<td>CS-15272-VFE</td>
<td>15 Fr. x 27 cm Antegrade Radiopaque Polyurethane Catheter</td>
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<td>CS-15312-VFE</td>
<td>15 Fr. x 31 cm Retrograde Radiopaque Polyurethane Catheter</td>
<td>31 cm</td>
<td>CS-15312-VFE</td>
<td>15 Fr. x 31 cm Antegrade Radiopaque Polyurethane Catheter</td>
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<tr>
<td>CS-15422-VFE</td>
<td>15 Fr. x 42 cm Retrograde Radiopaque Polyurethane Catheter</td>
<td>42 cm</td>
<td>CS-15422-VFE</td>
<td>15 Fr. x 42 cm Antegrade Radiopaque Polyurethane Catheter</td>
<td>42 cm</td>
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<tr>
<td>CS-15552-VFE</td>
<td>15 Fr. x 55 cm Retrograde Radiopaque Polyurethane Catheter</td>
<td>55 cm</td>
<td>CS-15552-VFE</td>
<td>15 Fr. x 55 cm Antegrade Radiopaque Polyurethane Catheter</td>
<td>55 cm</td>
</tr>
</tbody>
</table>

| RETROGRADE HUB REPLACEMENTS | DESCRIPTION | TIP-TO-CUFF INSERTION LENGTH | |
|-----------------------------|-------------|------------------------------|
| VF-15192-E | ARROW-Clark VectorFlow Replacement Hub for ref. CS-15192-VFE (19 cm) | 19 cm |
| VF-15232-E | ARROW-Clark VectorFlow Replacement Hub for ref. CS-15232-VFE (23 cm) | 23 cm |
| VF-15272-E | ARROW-Clark VectorFlow Replacement Hub for ref. CS-15272-VFE (27 cm) | 27 cm |
| VF-15312-E | ARROW-Clark VectorFlow Replacement Hub for ref. CS-15312-VFE (31 cm) | 31 cm |
| VF-15422-E | ARROW-Clark VectorFlow Replacement Hub for ref. CS-15422-VFE (42 cm) | 42 cm |
| VF-15552-E | ARROW-Clark VectorFlow Replacement Hub for ref. CS-15552-VFE (55 cm) | 55 cm |

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4. Reference on file at Teleflex.
5. KDOQI 2006 Updates Clinical Practice Guidelines and Recommendations “Long-term catheter systems—tunneled cuffed catheters (TCCs) and tunneled port catheter systems—should have their tips within the right atrium confirmed by fluoroscopy for optimal flow.”
6. Testing was performed using a 2:3 glycerin/deionized water solution with a viscosity of 3.2-3.5 cP at 37°C.

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The Arrow-Clark™ VectorFlow™ Hemodialysis Catheter is indicated for use in attaining long-term vascular access for hemodialysis and apheresis. Contraindications: The Arrow-Clark VectorFlow Hemodialysis Catheter is intended for long-term hemodialysis vascular access only and should not be used for any other purpose other than those indicated in the Instructions for Use. Do not use this catheter in patients with thrombosed vessels. Warnings: Device is Sterile, Single use: Do not reuse, reprocess or resterilize. Reuse of device creates a potential risk of serious injury and/or infection which may lead to death.

Refer to package insert for complete warnings, indications, contraindications, precautions, potential complications, and Instructions for Use.
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