Reliance XK™
Long-Term Dialysis Catheter

Optimized Design for Reliable Performance

Improved Inner-Lumen Design

Straight

Alphacurve® Catheter
**Higher Flow Rates**

Reliance XK™ catheters demonstrated 18% average higher flow rates compared to DuraFlow™ 2 and DuraMax™ catheters when using a blood simulant.

**Lower Pressures**

Reliance XK™ catheters demonstrated 27% average lower pressures compared to DuraFlow™ 2 and DuraMax™ catheters when using a blood simulant.

**Optimized Lumens and Non-Restrictive Tip Design** enable flow rates of 500 ml/min even when 15% occluded in forward and reverse flow.

**Optimal Tip Design** provides 0% recirculation in forward flow.

Tip Designed to Resist Positional Occlusion.
Exceptional Kink Resistance simplifies insertion by allowing greater flexibility in tunnel location.

Thermosensitive Polyurethane Catheter Material affords strength for longevity and softness for flexibility and patient comfort.

AirGuard® Valved Introducer reduces risk of air embolism.
### Indications for Use

The Reliance XK™ long-term dialysis catheters are indicated for use in attaining short-term or long-term vascular access for hemodialysis, hemoperfusion orapheresis therapy. Access is attained via the internal jugular vein, external jugular vein, subclavian vein, or femoral vein. Catheters longer than 40 cm are intended for femoral vein insertion.

### Contraindications

This device is contraindicated for patients exhibiting severe, uncontrolled thrombocytopenia or coagulopathy.

### Warnings

Percutaneous insertion of the catheter should be made into the axillary-subclavian vein at the junction of the outer and middle third of the clavicle lateral to the thoracic outlet. The catheter should not be inserted into the subclavian vein medially because such placement can lead to compression of the catheter between the first rib and clavicle and can lead to damage or fracture and embolization of the catheter. Fluoroscopic or radiographic confirmation of catheter tip placement was reportedly associated with a higher incidence of complications compared to catheter placement in the right internal jugular vein.

Cautions: Repeated over-tightening of blood lines, syringes and caps will reduce connector life and could lead to potential connector failure. In case of damage, clamp the catheter between the patient and the damaged area with a smooth-edged, atraumatic clamp. Sterile and non-pyrogenic only if packaging is not opened, damaged or broken. 

- **Alcohol or alcohol-containing antiseptics (such as chlorhexidine) may be used to clean the catheter/skin site; however, care should be taken to avoid prolonged or excessive contact with the solution(s).** Solutions should be allowed to completely dry before applying dressing.
- **Acetone and Polyethylene Glycol (PEG)-containing ointments can cause failure of this device and should not be used with polyurethane catheters.** Chlorhexidine patches or brazeletzn containing benzalkonium (e.g., Polyplax® antiseptics) are the preferred alternative.
- **Fluoroscopic or radiographic confirmation of catheter tip placement should be helpful in demonstrating that the catheter is not being pinched by the first rib and clavicle.**
- **Use of a 10 mL or larger syringe is recommended because smaller syringes generate more pressure than larger syringes.** Note: A three pound (13.3 Newton) force on the plunger of a 3 mL syringe generates excess of 30 psi (206 kPa) whereas the same three pound (13.3 Newton) force on the plunger of a 10 mL syringe generates less than 15 psi (105 kPa) pressure. Accessories and components used in combination with this catheter should incorporate Luer-lock adapters. The heparin solution to lock, soak or declot polyurethane Dialysis Catheters because alcohol is known to degrade polyurethane catheter walls over time with repeated and prolonged exposure. 
- **Intended for Single Use. DO NOT REUSE. Reuse and/or repackaging may create a risk of patient or user infection, compromise the structural integrity and/or essential material and design characteristics of the device, which may lead to device failure, and/or lead to injury, illness or death of the patient.**

### Ordering Information

**Reliance XK™ Long-Term Dialysis Catheter**

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<th>Tip to Cuff Length</th>
<th>Tip to Hub Length</th>
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**Reliance XK™ Catheters - Alphacurve® Catheter**

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Please consult package insert for more detailed safety information and instructions for use.

*All other trademarks are the property of their respective owners. 

**Physician’s Signature**

**Representative's Name**

**Contact Phone No.:**

**Product and Packaging Do Not Contain Natural Rubber Latex**

### References


Other references available upon request.

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