Specialty Neonatal/Pediatric Safety Infusion Sets

Anti-Reflux Technology Provides Blood Reflux Protection 24/7!™

NEXUS TKO®
TECHNOLOGY THAT NEVER SLEEPS!™
Nexus TKO® Specialty Neonatal IV Sets

Neonatal Safety Catheter

**Nexus Tri-Seal™ Microbial Barrier Protection**
- 96-Activation Microbial Barrier Performance Study8
- Tri-Seal Design Provides (3) Levels of Validated Microbial Ingress Protection3,6

1st Level of Protection
A 360° compression seal between the septum and the rigid needle-free connector housing provides a 360° barrier of protection from microbial ingress.3

2nd Level of Protection
A smooth, easy to disinfect septum surface with our exclusive Slit-Lock™ technology assures the septum slit is fully locked and sealed, which provides a safe and effective microbial barrier seal3

3rd Level of Protection
The Slit-Lock™ septum remains closed until the male luer fully compresses the locked septum slit inside the needle free housing, further protecting the internal fluid path from microbial ingress.3

**Patented Clear, Single Piece Technology**
Nexus TKO® Anti-Reflux technology delivers IV Catheter Patency 24/7™ with a single crystal clear silicone Anti-Reflux valve

**Blood Reflux Protection 24/7™**
Nexus TKO® technology decreases the risk of infection by preventing blood reflux, a known contributor to catheter related blood stream infections CRBSI’s3,5

**To Keep Open / Catheter Patency Technology**
Patented 3-position Anti-Reflux technology provides IV Catheter Patency 24/7™

Normal Closed Position
The TKO valve provides Blood Reflux Protection 24/7™

Flush/Infusion
The TKO valve opens forward with normal gravity pressure

Blood Sample/Check
The TKO valve opens in reverse for easy blood draw

**Extension Sets & T-Site Extension Sets**

All Specialty Neonatal IV Sets are manufactured with our Nexus TKO® Anti-Reflux technology. Our innovative safety IV sets assure catheter patency is achieved and the risk of CRBSI’s due to blood reflux is reduced3,5. The TKO Anti-Reflux valve is normally closed but automatically opens towards the patient with the smallest amount of infusion pressure. When fluid pressure drops due to physiological changes (such as patient movement, crying, sneezing, coughing, venous spasms, or venous pressure) or mechanical changes (such as infusion pump fill cycles, syringe plunger reflux, IV bag run dry, luer connections, disconnections, roller clamping, or external pressure changes from ventilators) the TKO Anti-Reflux valve will automatically close to prevent blood from refluxing into the patient’s catheter. The Nexus TKO® valve will remain closed against vascular pressure ensuring IV Catheter Patency 24/7™.

**Safety Connections**
- Spin-Lock Male Luer
- Male Luer Lock
- Spin-Lock T-Site
- Slip Luer T-Site
- Lever Lock
- Cannula
Nexus TKO® Multi-Access Neonatal Safety IV Sets

Nexus TKO® Anti-Reflux Technology provides Blood Reflux Protection 24/7™ and the associated risk of CRBSI's.

Reduce the Risk of CRBSI’s from Blood Reflux by using the Nexus TKO® Anti-Reflux valve coupled with our Multi-Access Neonatal Safety IV Sets. These safety sets will assure catheter patency is achieved and the risk of CRBSI’s due to blood reflux are reduced.

Reduced Risk of CRBSI’s from Touch Contamination with pre-assembled and patient ready Nexus TKO® Multi-Access Neonatal Safety IV Sets, designed to deliver a standardized safety solution by reducing the total number of line connections/disconnections and the potential unwanted risk of touch contamination which is proven to cause CRBSI’s.

Standardized Protection and Safety Solution is achieved with Nexus TKO® Multi-Access Neonatal Safety IV Sets by allowing the Clinician to choose the most efficient configuration to safely deliver the patient’s specific pharmaceutical formulary. Nexus Neonatal Safety IV Sets are designed with optimum tubing lengths, priming volumes and filtration for your patient’s protection.

Nexus TKO® Provides Protection against Medication Mixing with pre-assembled IV sets offering a new level of safety by reducing drug, medication and nutrition line mixing. Nexus TKO® Anti-Reflux valve technology automatically closes when fluid pressures drop from multiple pump infusions then reopens when fluid pressures resume.

Minimize Potential Costly Drug Waste and Drug Incompatibility with our Nexus TKO® Bi-Fuse, Tri-Fuse and Quad-Fuse Multi-Access Neonatal IV Sets, designed to provide added safety and protection.

Low Priming Volumes provide a design solution for low drug waste concerns.

Safety Color Coded Clamps provide a visual aid to the Clinician to distinguish between specific IV lines; drugs, medications and nutrients.

Non-DEHP and Latex Free

Nexus Medical designed a wide range of innovative Nexus TKO® Multi-Access Neonatal IV Sets. Our innovative line of IV sets are pre-assembled with needle free Nexus TKO® Anti-Reflux valve protection on each IV line whether you choose a bi, tri or quad configuration. This specialty designed group of IV sets handles the complex challenges of continuous IV nutrition therapy, drug therapy and intermittent IV delivery of low volume, small dosage medications and drugs.

Nexus TKO® Anti-Reflux technology extends catheter life by providing Blood Reflux Protection 24/7™ for neonatal patients and their limited vasculature which is crucial to delivering life-sustaining nutrition, medications and drugs. Nexus TKO® Anti-Reflux technology protects each IV line by reducing the risk of mixing during simultaneous infusions of nutrition, medication and drugs.
Nexus TKO® Multi-Access Neonatal Closed Infusion System

- Designed to Protect Against CRBSI’s by Reducing the Total Number of Line Connections/Disconnections and Touch Contamination.
- Comprehensive System to Assure Reductions in Line Openings and Line Violations.

Safety Connections

- Vented Spike
- Pinch Clamp with Caution Label
- One Way Check Valve
- 2-Way Stop Cock
- Colored Slide Clamps

The Nexus TKO® Anti-Reflux Valve
decreases the risk of infection by preventing Blood Reflux Protection 24/7™, which is a known contributor to catheter related blood stream infections (CRBSIs).5

The Patented Clear, Single Piece Nexus TKO® Anti-Reflux Valve was designed to have three positions; the TKO valve will open toward the patient with the smallest amount of fluid pressure, close when not infusing to prevent blood reflux into your patient’s catheter and open in reverse for easy blood sampling or patency check, but automatically reset into the closed position upon syringe disconnection. Nexus TKO® technology has been proven to significantly increase IV catheter life by reducing blood reflux, which is the root cause of most thrombotic catheter occlusions.5 Nexus TKO® valve will remain closed against vascular pressure, assuring your catheter remains patent.2

Nexus Fully Closed, Multi-Access Infusion Sets provide a completely sealed structure and clinical method for intermittent flushing and medication infusions. This system, when implemented provides a comprehensive Closed Multi-Access technique which can be used to assure a complete reduction in the overall number of line openings and line violations.

Nexus TKO® Neonatal Closed Infusion System

- Provides Blood Reflux Protection 24/7™
- Promotes IV Catheter Patency 24/7™
- Significantly reduces medication mixing by protecting each IV line separately
- Significantly reduces the risk of CRBSI’s associated with unintentional blood reflux
- Increased catheter life by reducing unintentional blood reflux

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Nexus TKO® Neonatal Closed Infusion System

- Provides a significant reduction in the total number of line connections/disconnections through the use of a single, standardized closed system set
- Promotes standard of practice by providing a unique Closed System designed specifically for the IV nutrition and medication delivery your patient requires
- Safety color coded clamps provide a visual aid to the Clinician to distinguish between specific IV lines; drugs, medications and nutrients
6. 96-Activation Microbial Barrier Performance Study, GLP Laboratory Testing. Results on file at Nexus Medical LLC. 

*additional references shown used in other Nexus literature found online at www.nexusmedical.com*