



Closed IV Medication Sets

Needlefree administration sets designed to maintain a completely closed system throughout the entire medication delivery process

icumedical
human connections

Save Time and Money While Helping Minimize Infection Risk

with Procedure-Ready Closed IV Medication Sets

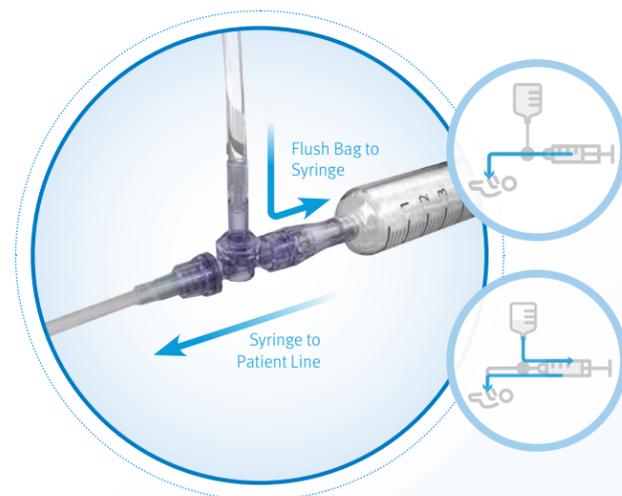
Manipulating traditional tubing may increase the risk of medication errors and bacterial contamination.

Traditional, open-ended administration sets require the manipulation of tubing, connectors, and flush devices, which adds to nursing setup time and may contribute to an increased risk of bloodstream infections and medication errors.¹ With limited access points, these sets also make it difficult to safely and efficiently deliver multiple infusions.

Using ICU Medical's closed IV medication sets during administration can help your efforts to minimize infection risks and improve medication safety.^{1,2,3}

ICU Medical's closed IV medication sets combine advanced needlefree connector technology with dual one-way valve security to help you minimize infection risks while maximizing efficiency. These clinically differentiated sets eliminate the need to connect and disconnect flush devices after medication delivery and remain completely closed throughout the entire drug delivery process.

Deliver medication and flush the line without ever opening the system.



Deliver Medication

Safely and easily deliver medication through a specialized one-way valve that prevents the backflow of medication into the flush line.

Flush the Line

Using the same syringe, simply draw a volume of flush solution through the integrated one-way valve and continue to flush the line.

Following the switch to MicroClave™ connectors and the implementation of a new closed IV system and smart infusion devices, a study showed:¹

64.3% Reduction in infection rates

54% Decrease in medication errors

Warning: Clave connectors may be incompatible with some male-luer connectors including prefilled glass syringes. To avoid damage to the Clave or syringes or male luers which may result in delays of medication administration and possible serious adverse events, users should confirm mating luers or syringes have an internal diameter range of 0.062" to 0.110". Check the internal diameter of the male-luer connector of the mating syringe prior to using it to access the Clave. Products outside of these dimensional tolerances should not be used.



Help Minimize Infection Risks

Integrated clinically differentiated Clave™ needlefree connector technology provides a safe and effective microbial barrier to help minimize infection risks.^{4,5,6}



Efficiently Flush the Line

Dual one-way valve technology allows you to deliver medication and flush the line without connecting and disconnecting flush devices.



Reduce Drug Mixing

Each medication line connects directly to the catheter hub, eliminating the risk of medication mixing from multiple access ports.



Safely Access the Closed System

Available multi-lumen extension sets allow for safe and efficient access to your patients' IV lines without ever opening the system.

Get Procedure-Ready Sets Designed to Meet Your Clinical Needs

Choose from a wide range of procedure-ready sets with a broad selection of needlefree components to help you maximize efficiencies and enhance patient safety.

Multi-Lumen Extension Sets

Get the IV access you need without having to connect and disconnect administration tubing.

Variable Tubing Lengths

Choose the length of tubing you need to optimize space at the bedside.



Dual One-Way Valve

Deliver medications and flush the line while maintaining a closed system.

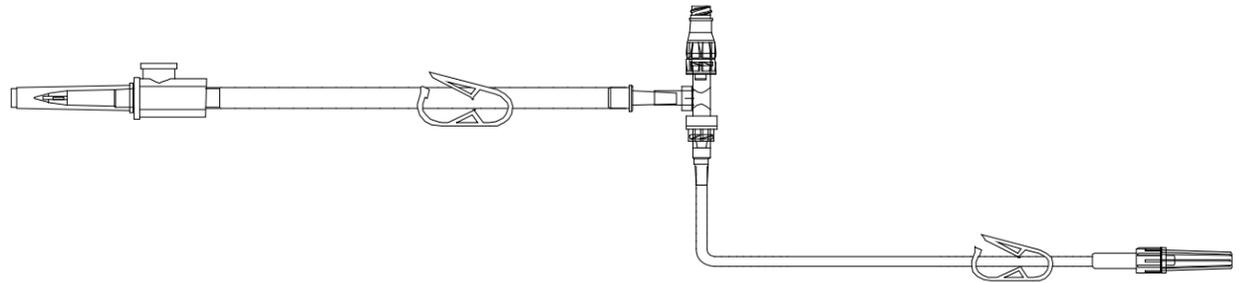
Integrated Filters

Incorporate 0.2 and 1.2 micron filters for IV medications and lipids.

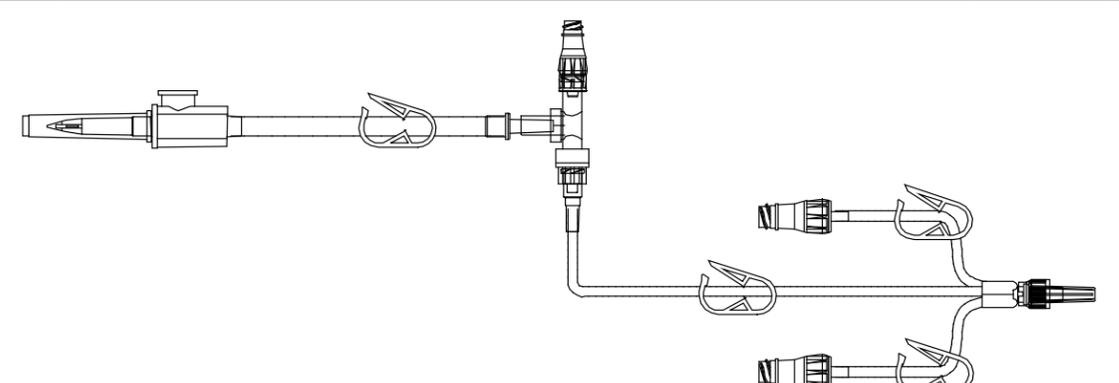
Needlefree Connectors

Integrated Clave IV connector technology to help minimize infection risk.

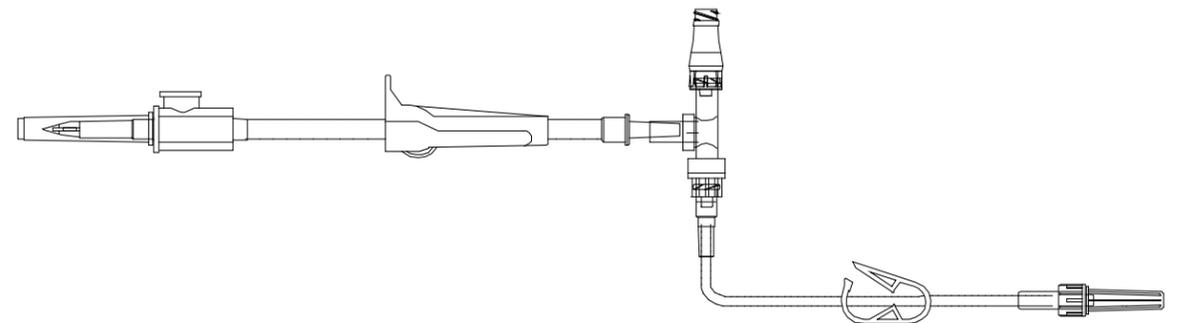
Catalog #	Description	PV (mL)	Case Qty
MC330720	108" (274 cm) Appx 6.7 mL Transfer Set w/Dual Check Valve, Clave™ Clear, Luer Lock	6.7	50



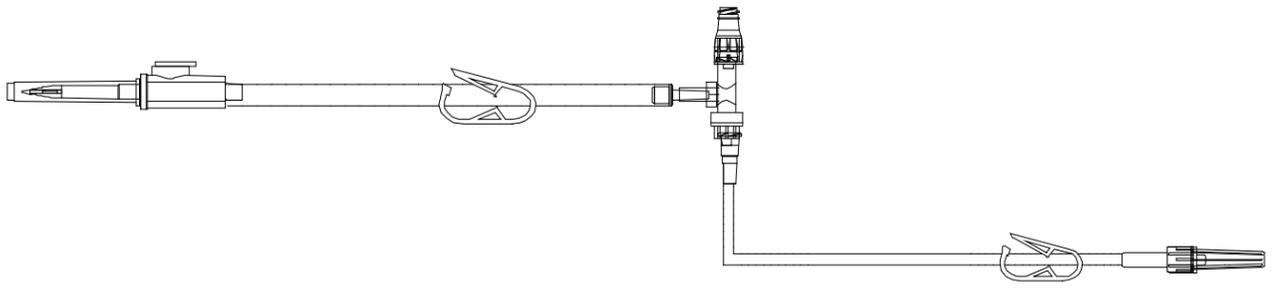
Catalog #	Description	PV (mL)	Case Qty
B33065	104" (264 cm) Appx 7.1 mL, Transfer Set w/Clave, Dual Check Valve, Smallbore Trifuse Ext Set w/2 Clave, Rotating Luer	7.1	50



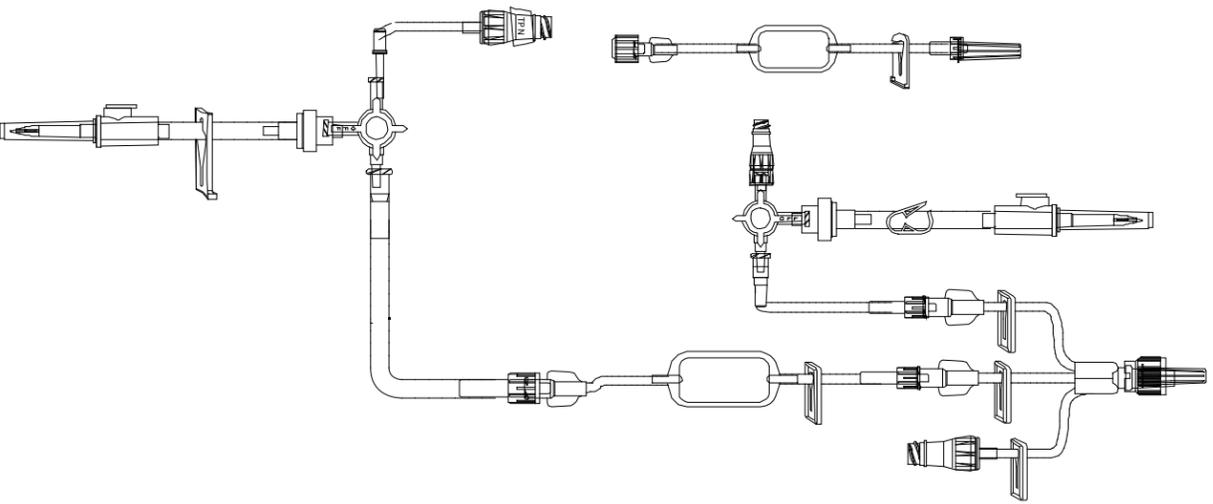
Catalog #	Description	PV (mL)	Case Qty
B33351	127" (323 cm) Appx 8.9 mL, Transfer Set w/Dual Check Valve, MicroClave™, Luer Lock	8.9	50



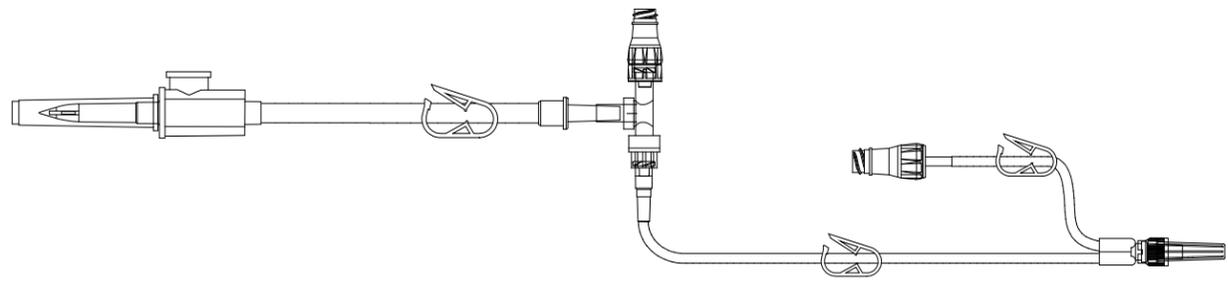
Catalog #	Description	PV (mL)	Case Qty
B33895	107" (272 cm) Appx 8.7 mL, Transfer Set w/Dual Check Valve, MicroClave, Luer Lock	8.7	50



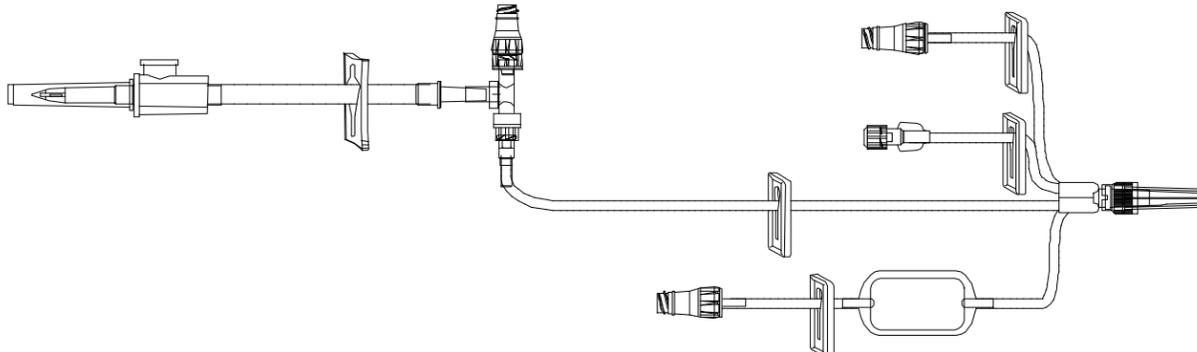
Catalog #	Description	PV (mL)	Case Qty
B33969	105" (267 cm) Transfer Set, Quadfuse w/3 Clave (1 TPN Ring), 2 Bag Spikes, 2 Check Valves, 2 3-Way Stopcocks, 0.2 Micron Filter, Spin Luer, 3 Ext, Drop-In 60" Ext Set w/1.2 Micron Filter	29.3	25



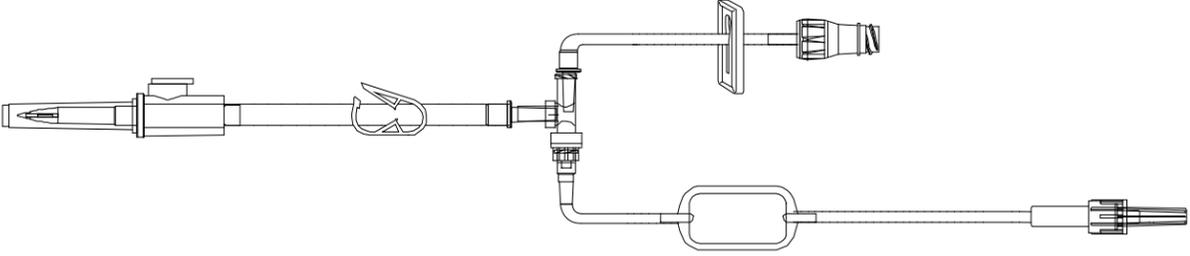
Catalog #	Description	PV (mL)	Case Qty
MC330082	109" (277 cm) Appx 7.4 mL, Transfer Set w/2 MicroClave Clear, Dual Check Valve, 3 Clamps (Red, White, Blue), Rotating Luer	7.4	50



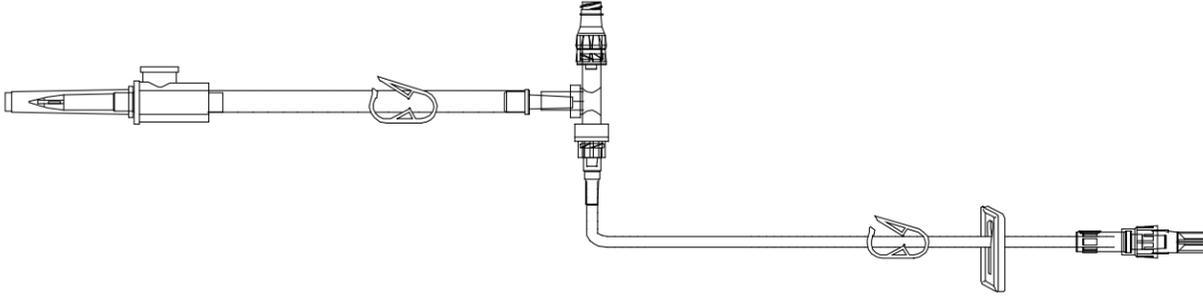
Catalog #	Description	PV (mL)	Case Qty
MC330190	111" (282 cm) Appx 7.9 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Quadfuse Ext w/2 MicroClave Clear, 0.2 Micron Filter, 5 Clamps (3 White, Red, Blue), Rotating Luer	7.9	50



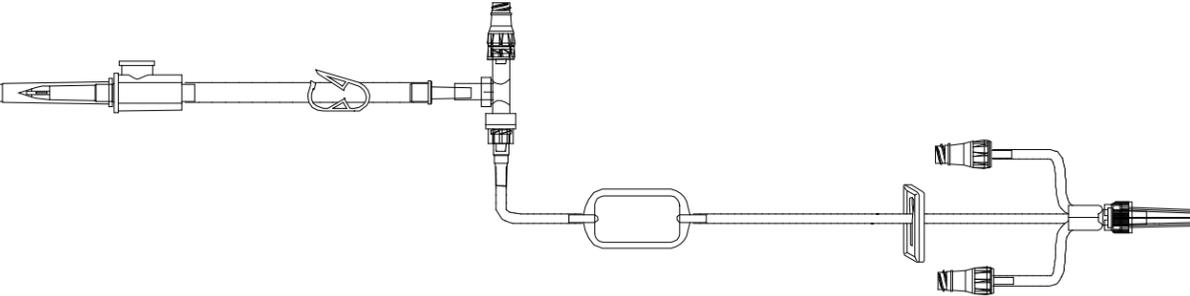
Catalog #	Description	PV (mL)	Case Qty
MC330419	102" (259 cm) Appx 8.2 mL, PUR Standardbore/Smallbore Transfer Set w/MicroClave Clear, Dual Check Valve, 1.2 Micron Filter, Luer Lock	8.2	50



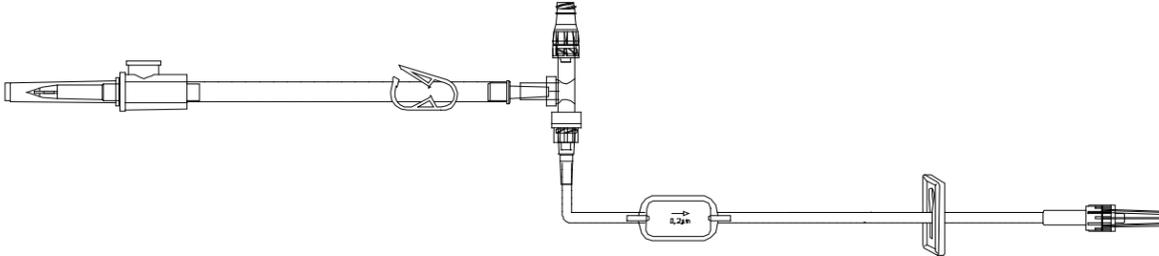
Catalog #	Description	PV (mL)	Case Qty
MC330615	106" (269 cm) Appx 5.4 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, 3 Clamps (2 White, Green), Rotating Luer	5.4	50



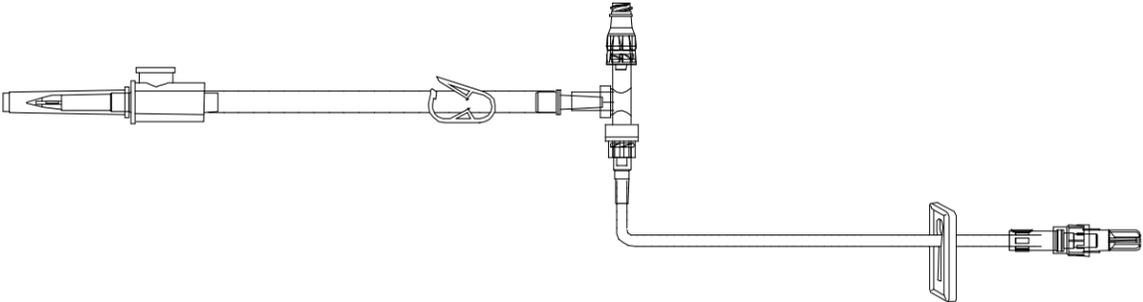
Catalog #	Description	PV (mL)	Case Qty
MC330583	102" (259 cm) Appx 5.0 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Trifuse Ext Set w/2 MicroClave Clear, 0.2 Micron Filter, Clamp, Rotating Luer	5	50



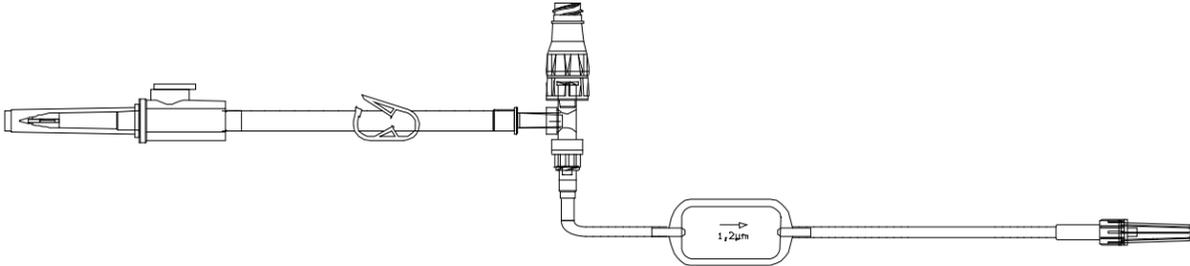
Catalog #	Description	PV (mL)	Case Qty
MC330693	89" (226 cm) Appx 4.7 mL, Transfer Set w/Clave Clear, Dual Check Valve, 0.2 Micron Filter, Luer Lock	4.7	50



Catalog #	Description	PV (mL)	Case Qty
MC330584	100" (254 cm) Appx 4.6 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Rotating Luer	4.6	50



Catalog #	Description	PV (mL)	Case Qty
MC330711	102" (259 cm) Appx 8.1 mL, PUR Yellow Standardbore/Smallbore Transfer Set w/Clave Clear, Dual Check Valve, 1.2 Micron Filter, Luer Lock	8.1	50



Catalog #	Description	PV (mL)	Case Qty
MC33332	128" (325 cm) Appx 9.3 mL Transfer Set w/Clave Clear, Dual Check Valve, Smallbore Bifuse Ext Set w/Clave Clear (Green Ring), 0.2 Micron Filter, Spin Luer	9.3	50

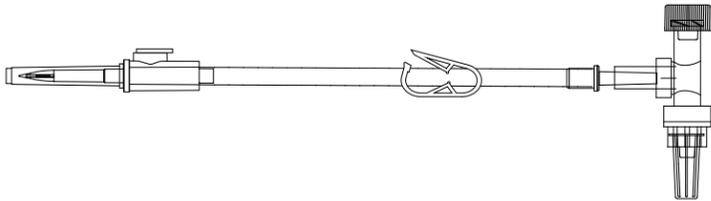
Catalog #	Description	PV (mL)	Case Qty
MC330442	111" (282 cm) Appx 7.7 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Quadfuse Ext Set w/3 MicroClave Clear, 5 Clamps (2 Red, Blue, 2 White), Rotating Luer	7.7	50

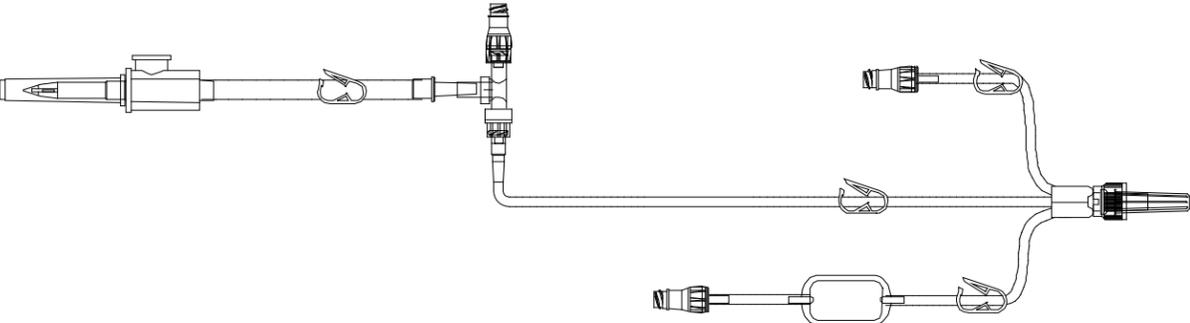
Catalog #	Description	PV (mL)	Case Qty
MC33892	107" (272 cm) Appx 8.7 mL, Transfer Set w/Dual Check Valve, MicroClave Clear, Rotating Luer	8.7	50

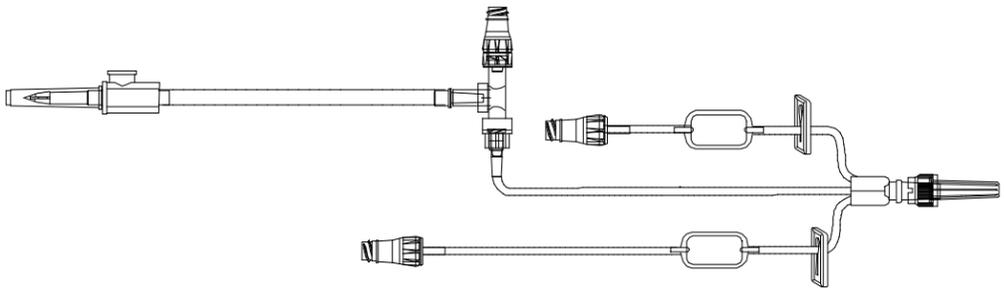
Catalog #	Description	PV (mL)	Case Qty
MC330514-NS	109" Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Trifuse Ext Set w/2 MicroClave Clear, 3 Clamps (2 Red, Green), Rotating Luer, Bulk Non-Sterile	7.5	150

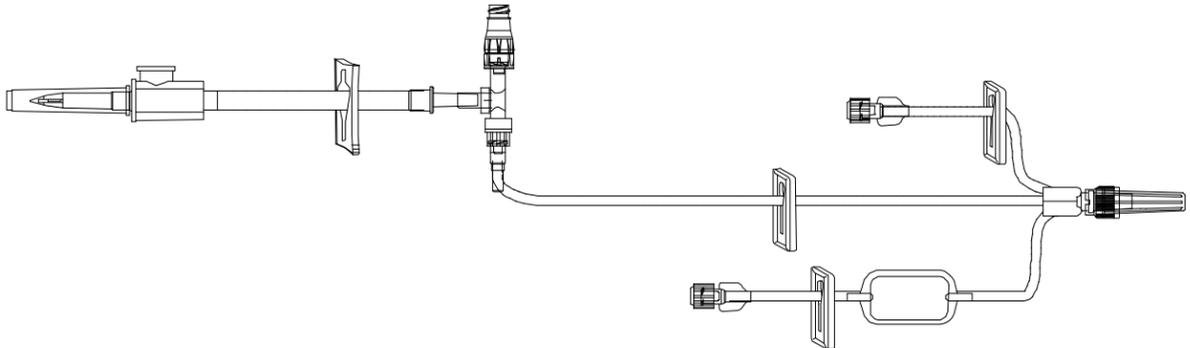
Catalog #	Description	PV (mL)	Case Qty
B30116	44" Transfer Set w/Dual Check Valve, Luer Lock, Drop-in Needle and Syringe	7.7	50

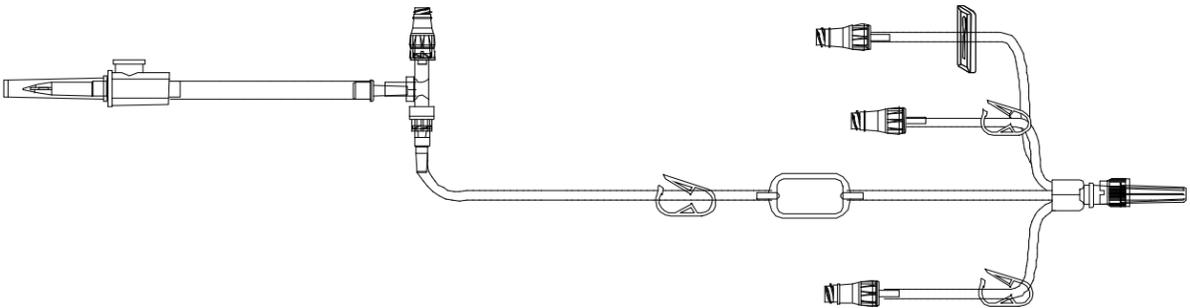
Catalog #	Description	PV (mL)	Case Qty
MC330465-NS	111" Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Quadfuse Ext Set w/3 MicroClave Clear, 0.2 Micron Filter, 4 Clamps (2 Red, Blue, White), Rotating Luer, Bulk Non-Sterile	8	150

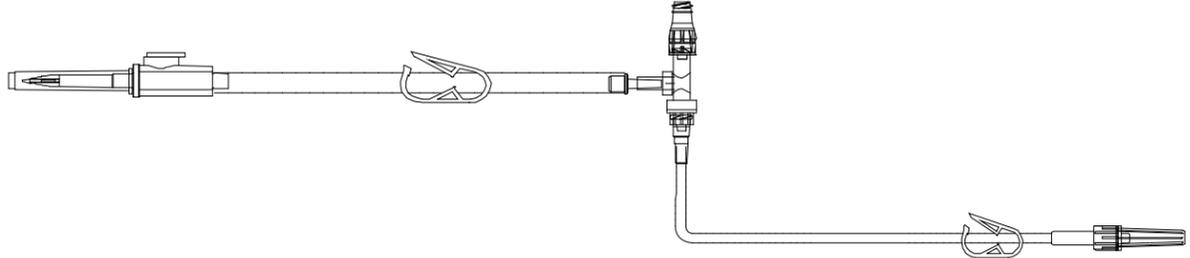
Catalog #	Description	PV (mL)	Case Qty
B3108	42" Transfer Set w/Dual Check Valve	7.4	50
			

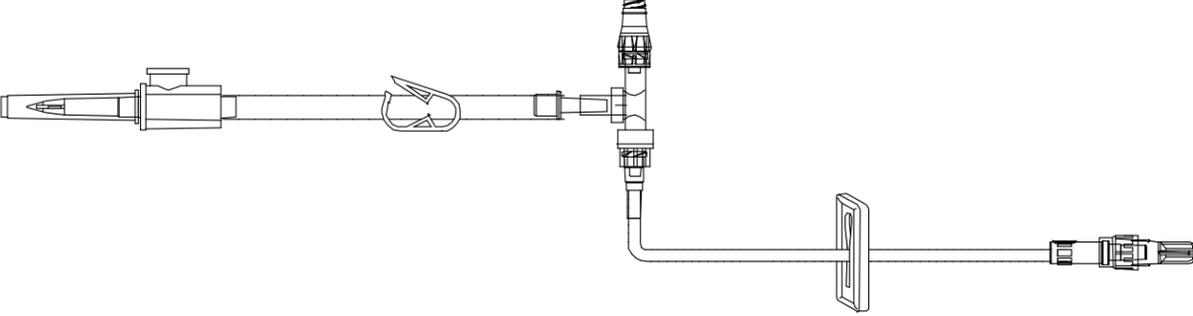
Catalog #	Description	PV (mL)	Case Qty
MC330661	129" (328 cm) Appx 7.9 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Trifuse Ext Set w/2 MicroClave Clear, 0.2 Micron Filter, 4 Clamps (2 Red, 2 White), Spin Luer	7.9	50
			

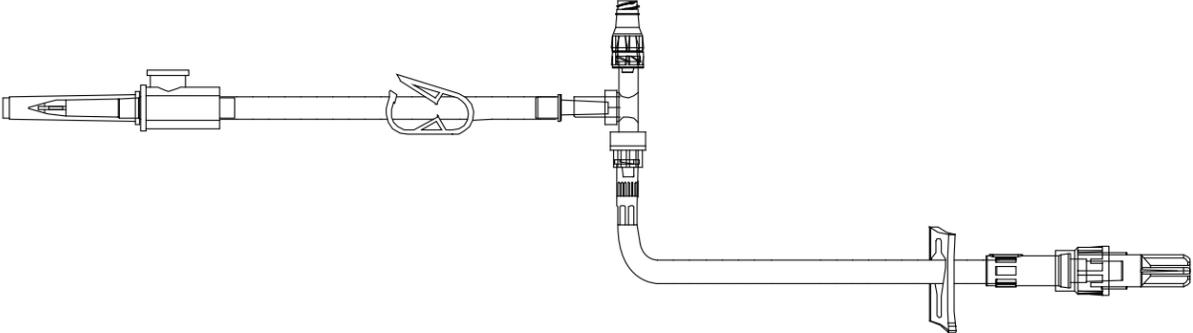
Catalog #	Description	PV (mL)	Case Qty
MC330590	94" (239 cm) Appx 7.5 mL, Transfer Set w/Dual Check Valve, MicroClave Clear, Smallbore Trifuse Ext w/2 MicroClave Clear, 1.2 Micron Filter, 0.2 Micron Filter, Rotating Luer	7.5	50
			

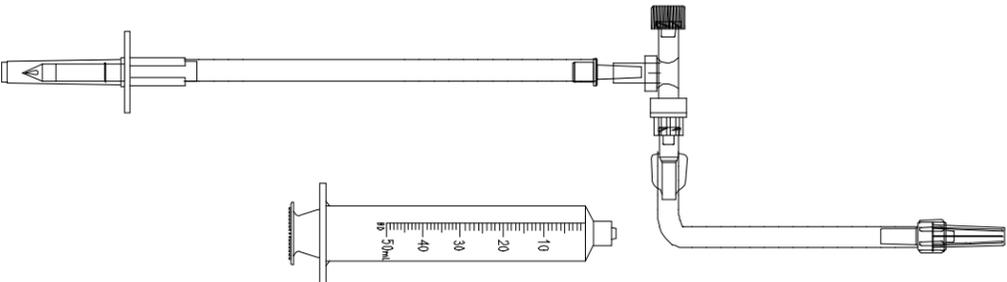
Catalog #	Description	PV (mL)	Case Qty
MC330191	111" (282 cm) Appx 7.9 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Trifuse Ext w/0.2 Micron Filter, 3 Clamps (2 White, Blue), Rotating Luer	7.9	50
			

Catalog #	Description	PV (mL)	Case Qty
MC330602	113" (287 cm) Appx 8.3 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, Smallbore Quadfuse Ext w/3 MicroClave Clear, 0.2 Micron Filter, 4 Clamps (Yellow, Blue, Red, White), Rotating Luer	8.3	50
			

Catalog #	Description	PV (mL)	Case Qty
B33978	109" (277 cm) Appx 9.4 mL, PUR Yellow Standardbore/Smallbore Transfer Set w/Dual Check Valve, Clave, Luer Lock	9.4	50
			

Catalog #	Description	PV (mL)	Case Qty
MC330588	106" (269 cm) Transfer Set w/MicroClave Clear, Dual Check Valve, 2 Clamps (Red), Rotating Luer	5.4	50
			

Catalog #	Description	PV (mL)	Case Qty
MC330653	125" (318 cm) Appx 16.5 mL, Transfer Set w/MicroClave Clear, Dual Check Valve, 2 Clamps, Spin Luer	16.5	50
			

Catalog #	Description	PV (mL)	Case Qty
B31750	58" (147 cm) Appx 10.8 mL, Transfer Set w/Dual Check Valve, Luer Lock, 1 Ext, Drop-in 50 mL Syringe	10.8	50
			

¹Tanner J. Developing a Closed, Intravenous Medication System for a Neonatal Intensive Care Unit. Neonatal Intensive Care Journal, July 2012.
²Aly H., et al. Is Bloodstream Infection Preventable Among Premature Infants? A Tale of Two Cities. PEDIATRICS, Official Journal of the American Academy of Pediatrics, September 2005. ³National Association of Neonatal Nurses Peripherally Inserted Central Catheters: Guideline for Practice, 3rd edition, 2015. ⁴Ryder M., Comparison of Bacterial Transfer and Biofilm Formation on Intraluminal Catheter Surfaces Among Twenty Connectors in a Clinically Simulated In Vitro Model. Presented at World Congress Vascular Access (WaCoVA) 2018. ⁵ Moore C, RN, MBA, CIC. Maintained Low Rate of Catheter-Related Bloodstream Infections (CR-BSIs) After Discontinuation of a Luer Access Device (LAD) at an Academic Medical Center. Poster presented at the annual Association for Professionals in Infection Control and Epidemiology (APIC) Conference 2010, Abstract 4-028. ⁶ Data on file at ICU Medical. Microbial Ingress Study on Clave Technology Study commissioned by ICU and conducted by Nelson Laboratories, 2008

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