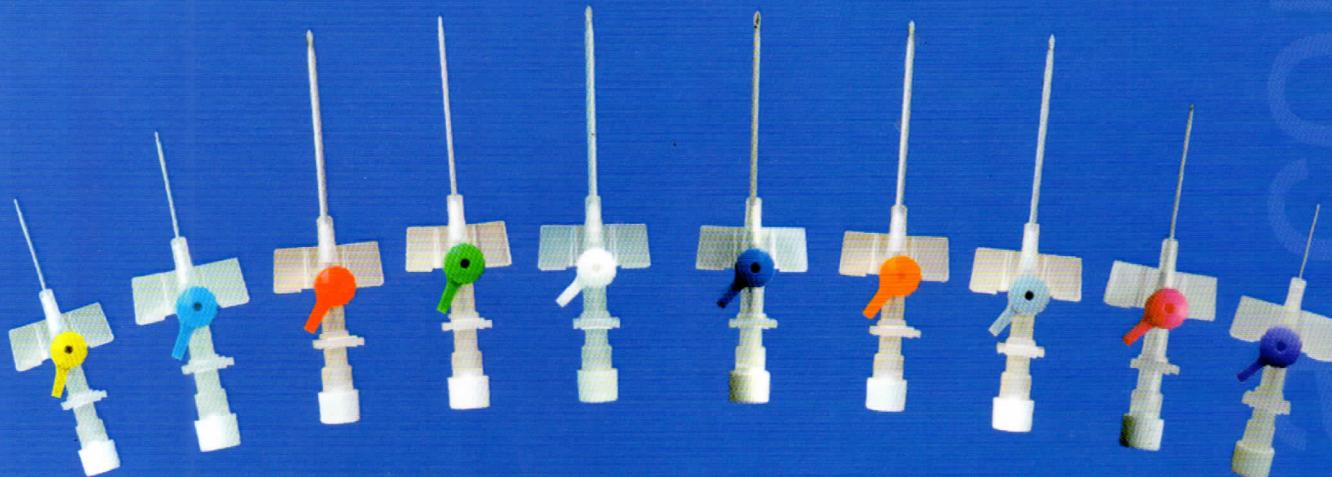


Harsoria™ Range of IV Catheters

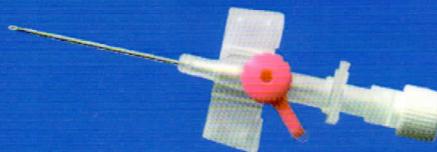
IV Catheter With Injection Valve and Wings



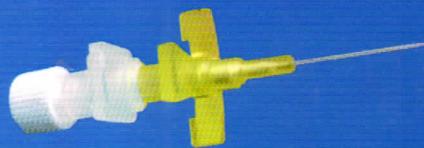
With Hydrophobic Filter



With Suture Holes



IV Catheter Without Injection Valve and With Small Wings



IV Catheter Without Injection Valve and Without Wings



All IV Catheters are available with PTFE, PUR and FEP as Catheter Material

Caution : Do not attempt to reininsert a partially or completely withdrawn needle



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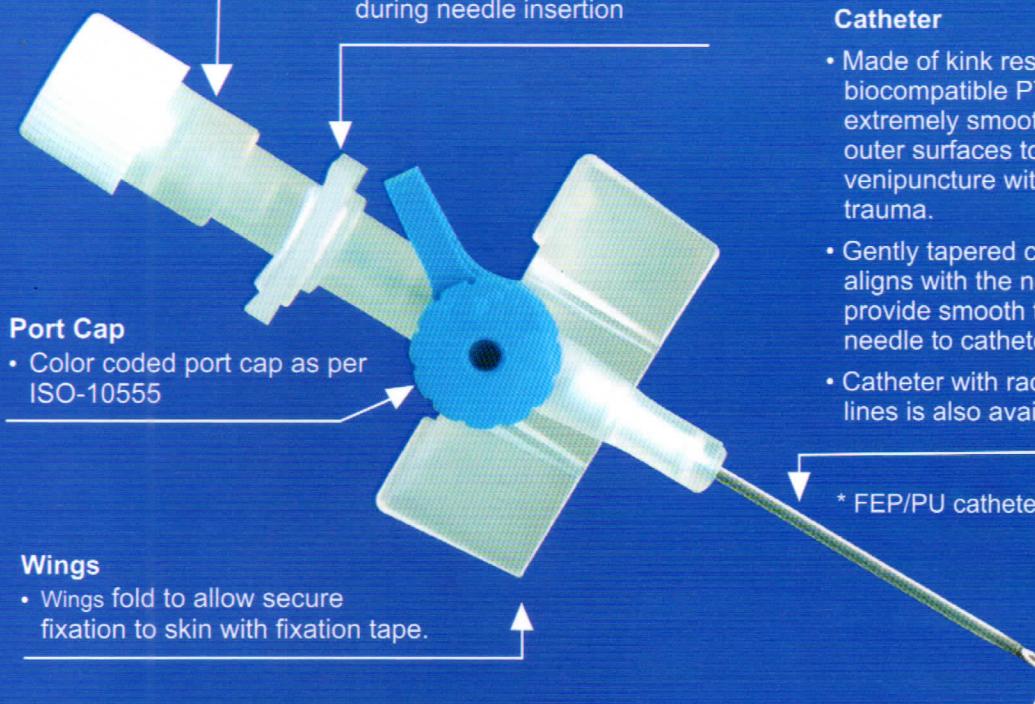
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Harsoria™

HEALFLON™ IV Cannula with Injection Valve and Wings



Revolutionary new technology for catheter tip design

- Best in class penetration force
- Lowest chances of tip damage despite repeated puncture



Catheter

- Made of kink resistant and biocompatible PTFE*, with extremely smooth inner and outer surfaces to ensure easy venipuncture with minimum trauma.
- Gently tapered catheter tip aligns with the needle bevel to provide smooth transition from needle to catheter.
- Catheter with radio-opaque lines is also available.

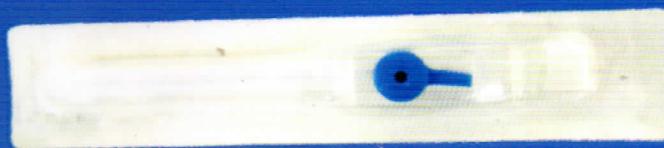
* FEP/PU catheter also available

Needle

- Siliconised and ground stainless steel needle with ultra-sharp triple facet bevel for smooth and painless venipuncture.

Packaging

Sterile and individually packed in rigid blister with easy to peel sealing.



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Harsoria™

HEALVAN™ IV Cannula with Injection Valve
and Small Wings

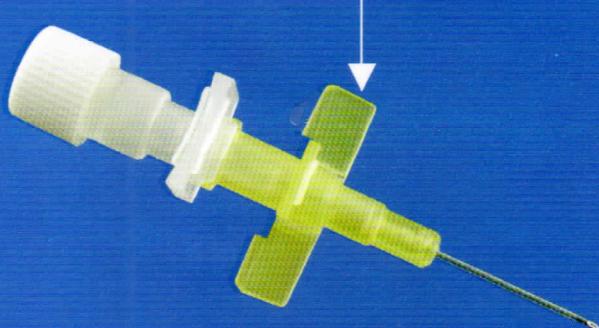
Design of stopper provides
optimal grip during use

Specially designed thumb
stop to prevent any instability
during needle insertion

Specially designed wing holder
for one-handed insertion

Siliconised and ground stainless
steel needle with ultra-sharp triple
facet bevel for smooth and
painless venipuncture

Small wings help in keeping the
cannula in place and do not interfere
even on a contoured surface



Blister pack available
with foil of Medical Kraft
Paper or Tyvek

Caution : Do not attempt to reinject a partially or completely withdrawn needle
*FEP / PU catheter also available



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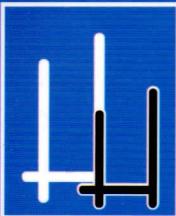
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Harsoria™ Range of Three-way Stopcocks and Stoppers

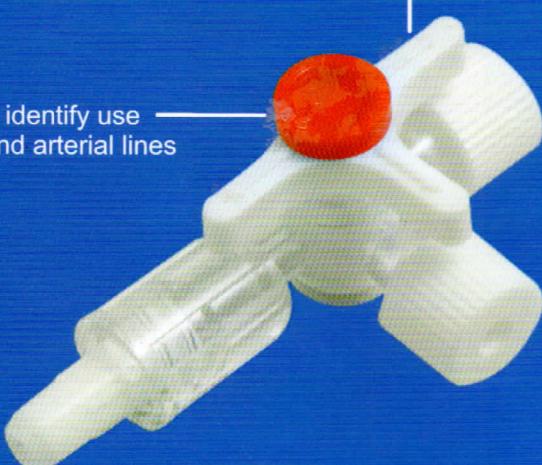
Universal 6% taper as per ISO594



Leak-proof up to
3 bar (43.5 psi)

Color-coded Pegs to identify use
of device with venous and arterial lines

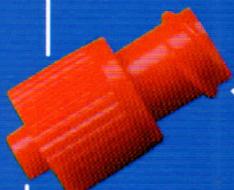
Smooth and jerk free operation
with arrow marks to indicate flow



Available in Blue, Red or White Tap
and also with Extention Tubing

Harsoria™ Combi Luer Lock

Serrations for convenient handling

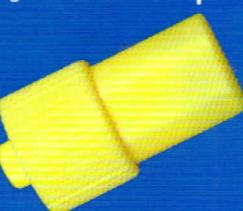


Universal 6% female
luer, as per ISO594

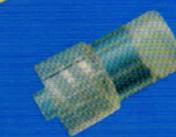
Universal 6% male luer, as per ISO594

Harsoria™ Injection Stopper

Latex/latex free plug with
leakage free fitting for effective
flushing of catheter or drawing of
blood samples



Universal 6% taper as
per ISO594



Also available in
transparent material

Harsoria™ Luer Cap

Serrations for convenient handling



Universal 6% male luer, as per ISO594

Individually packed in rigid blister.



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Harsoria™

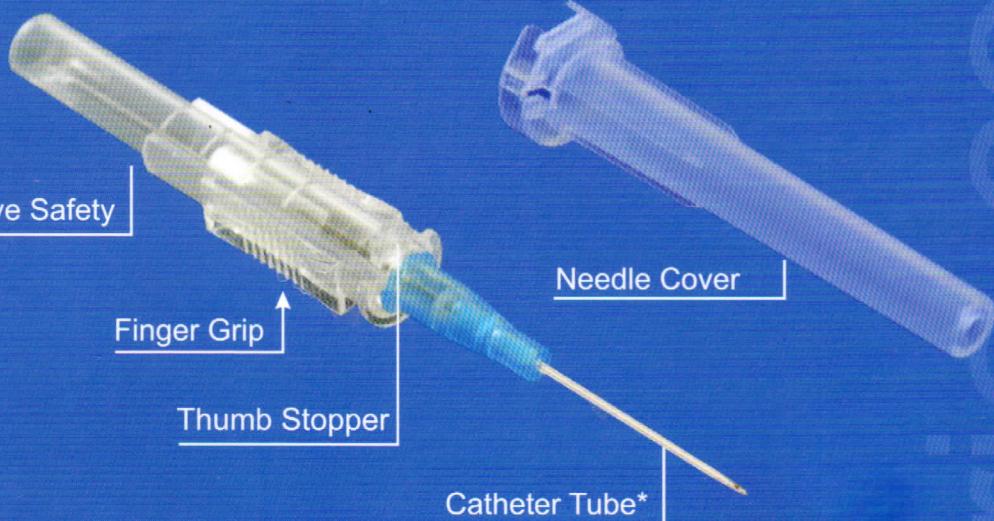
SAFNULE™ SAFETY

Passive Safety IV Cannula

- All-New Passive Safety Design
- Fail-Safe Needle-Stick Prevention Feature
- No Extra User Training Required
- Safe & Effective

Before Activation

Chamber For Passive Safety



Gently tapered catheter tip aligns with the needle bevel to provide smooth transition from needle to catheter

Optimal Trim Distance

Siliconised stainless steel needle with ultra-sharp triple facet bevel for smooth & painless venipuncture

After Activation

Needle Fully Enclosed by Safety Casing
Passive, Fail-Safe Operation



*Catheter available in PTFE, FEP & PUR material



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Harsoria™

HEALFLON™ SAFETY
Passive Safety IV Cannula

- All-New Passive Safety Design
- Fail-Safe Needle-Stick Prevention Feature
- No Extra User Training Required
- Safe & Effective

Self-Activating Safety Casing

Thumb Stopper

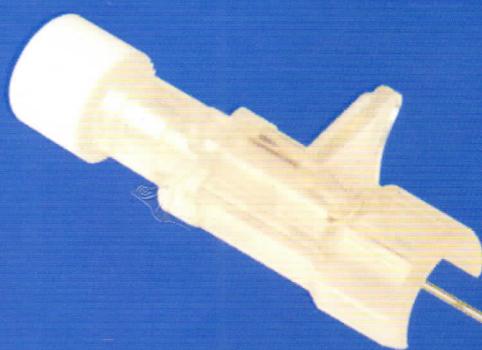
Flashback Chamber

Injection Port with Color
Coded-Port Cap

Catheter Tube*

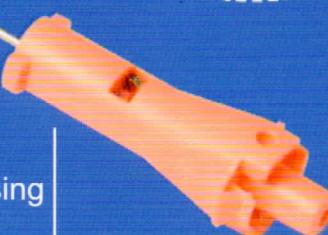
Before Activation

Activation



After Activation

- Needle Tip Fully Enclosed by Safety Casing
- Passive, Fail-Safe Operation



*Catheter available in PTFE, FEP & PUR material



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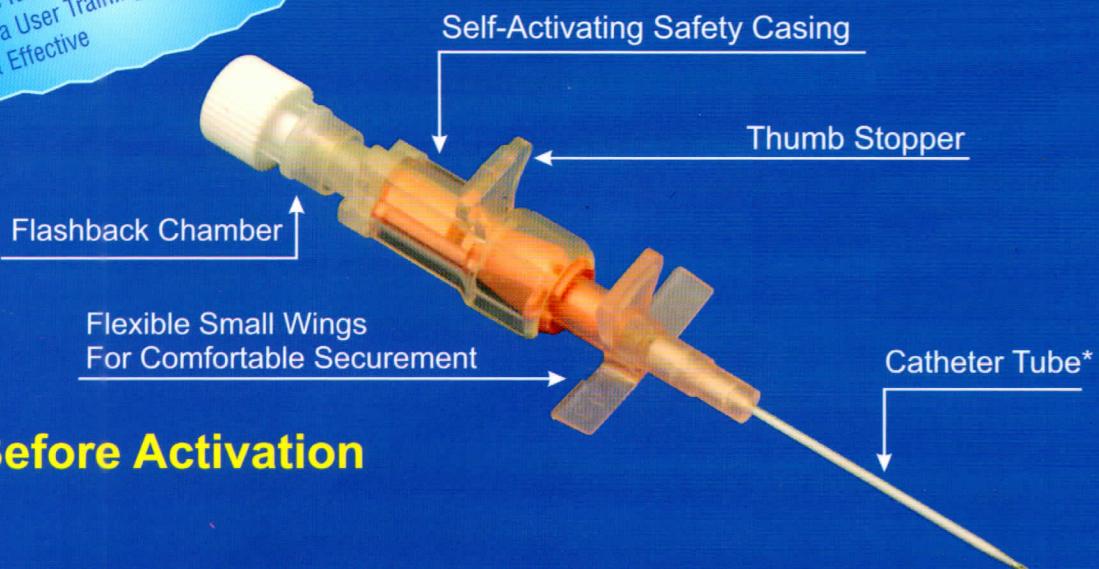
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Harsoria™

HEALVAN™ SAFETY
Passive Safety IV Cannula

- All-New Passive Safety Design
- Fail-Safe Needle-Stick Prevention Feature
- No Extra User Training Required
- Safe & Effective



Before Activation



- Needle Tip Fully Enclosed by Safety Casing
- Passive, Fail-Safe Operation

*Catheter available in PTFE, ETFE, FEP & PUR material **Patent pending**



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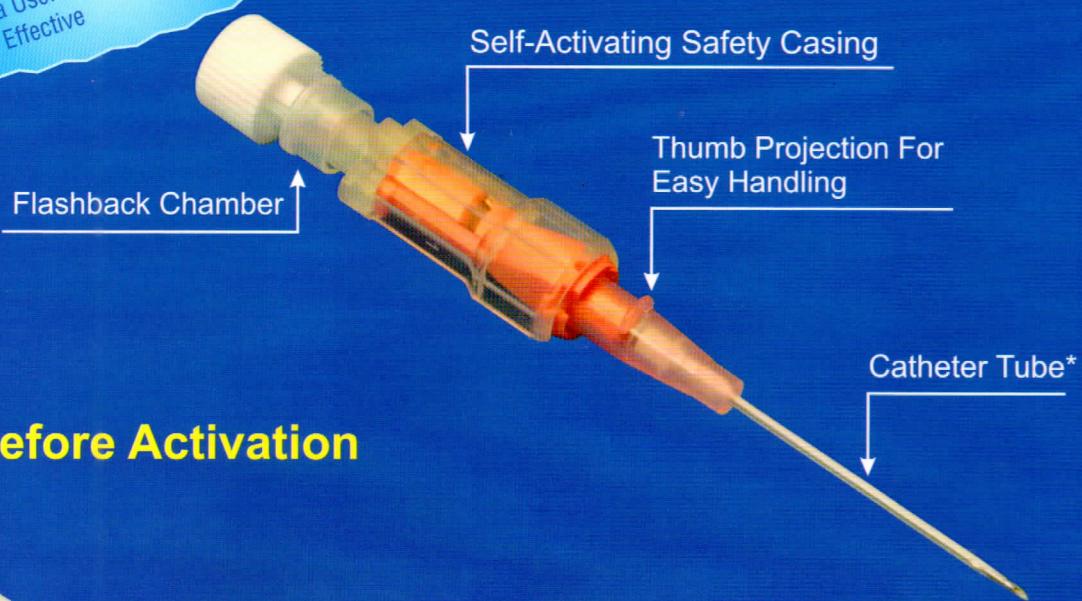


Harsoria™

HEALCATH™ SAFETY

Passive Safety IV Cannula

- All-New Passive Safety Design
- Fail-Safe Needle-Stick Prevention Feature
- No Extra User Training Required
- Safe & Effective



Before Activation



*Catheter available in PTFE, ETFE, FEP & PUR material **Patent pending**



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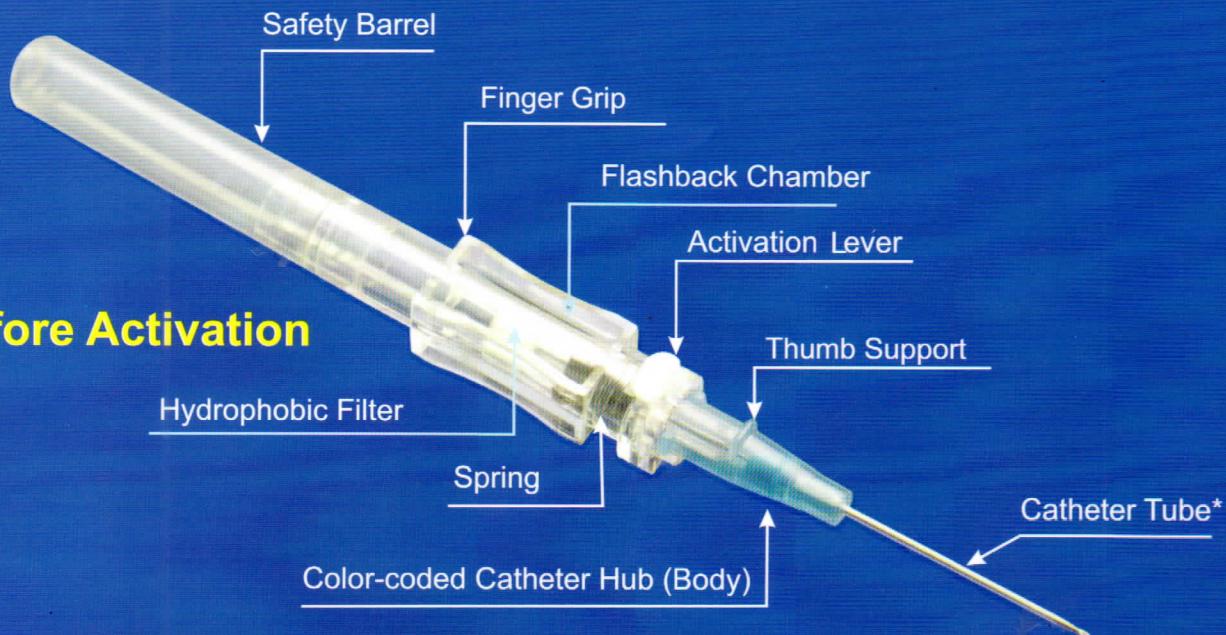
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Harsoria™

HEALCATH™ AUTOSAF™
Safety IV Cannula

Before Activation



After Activation

Needle completely
enclosed in safety chamber

Patent pending: 960/DEL/2008

Available with/without wings, and with/without port.

*Catheter available in PTFE, FEP & PUR material



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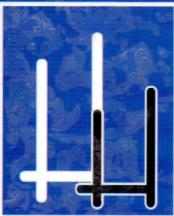
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Harsoria™

HEALCATH PLUS™ Pen-Type IV Cannula



Hydrophobic Filter

- Allows easy escape of air
- Provide rapid flow of blood for easy flashback

Completely Transparent flashback chamber

- Confirms accurate venipuncture

PTFE Catheter

- Lowest coefficient of friction among all catheter materials
- Highly Biocompatible
- Catheter with radio-opeque stripes available
- Latex-free and PVC-free

OPTIONAL : Needle with dent for instant confirmation of flashback

- Unique design of needle allows visualisation of blood even with partial penetration
- Avoids multiple pricks and leads to lower trauma

- Needle cover completely enclosed the used needle for easy and safe disposal

Double Beveled Catheter Tip

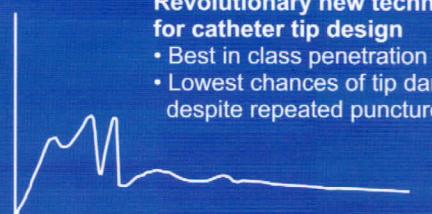
- Smooth penetration with low trauma
- Validated with best-in-class penetration simulator

Triple Faceted back-cut Needle

- Validated for optimal penetration

Revolutionary new technology for catheter tip design

- Best in class penetration force
- Lowest chances of tip damage despite repeated puncture



AVAILABLE PACKING

Blister Pack



Pen-Type Pack



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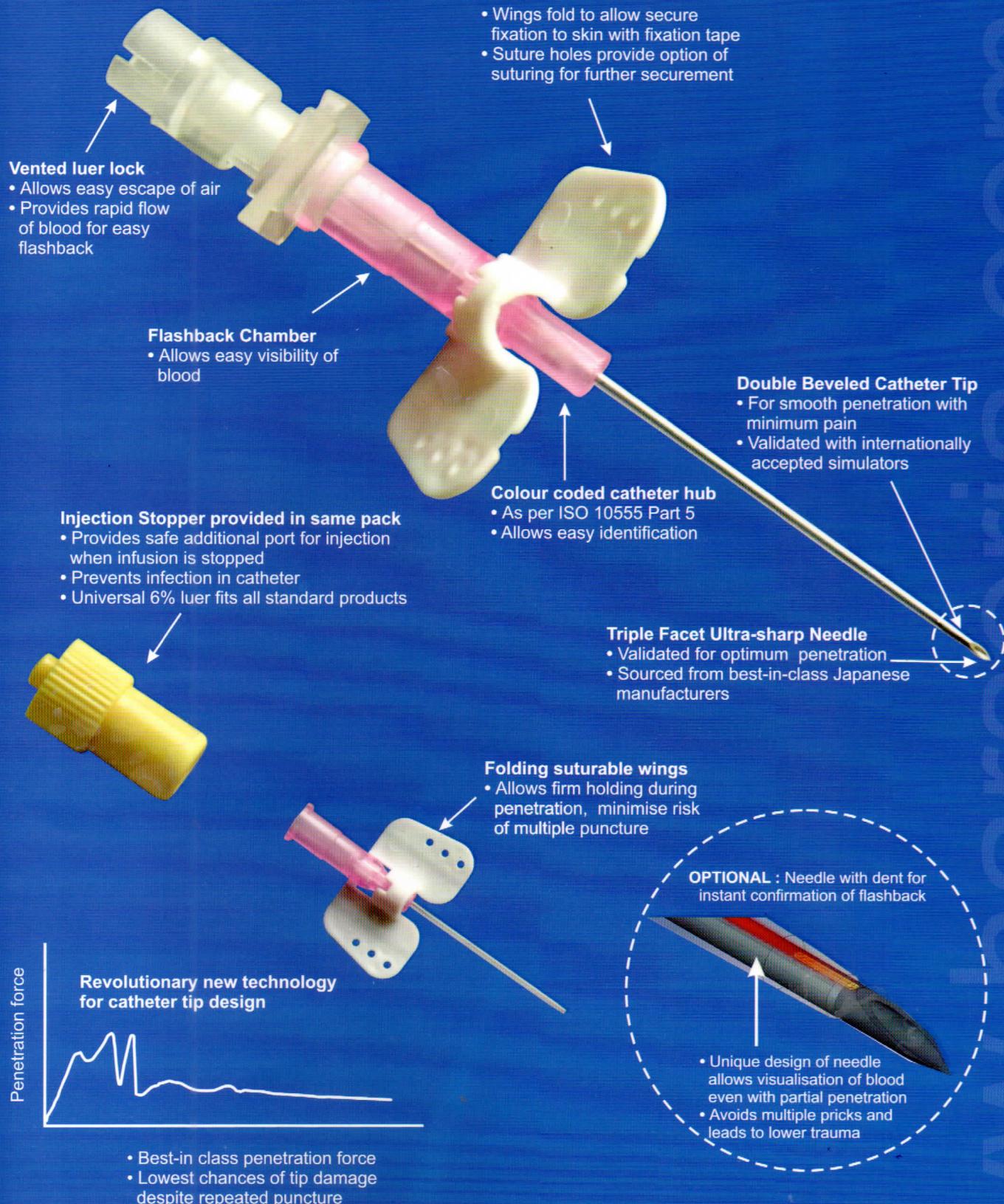
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Harsoria™

IV Cannula with Folding Suturable Wings



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Harsoria™ Range of Components

FEMALE LUER LOCK (FLL)



- Universal 6% taper luer for tube fitment, complying with ISO-594 standard
- Wings to allow easy and convenient gripping while connecting luer
- Best-in-class ABS material used, providing:
 - high shear strength
 - dimensional stability
 - high degree of transparency
- Available in different sizes for various tube diameters

- Luer cap (FLL stopper) also available
- Assembled FLL + Luer cap may be provided on request

MALE LUER LOCK (MLL)



- MLL cap (Plain stopper) also available
- Assembled MLL + stopper may be provided on request

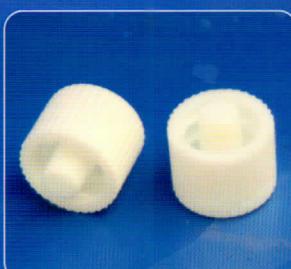
ROTATING MALE LUER LOCK (RMLL)



- Universal 6% taper MALE luer for tube fitment, complying with ISO-594 standard
- Wings on rotating nut for easy and convenient gripping while connecting luer
- Rotating nut provides secure leak-proof connection with standard female luers
- Best-in-class ABS material for body of RMLL provides:
 - high shear strength
 - dimensional stability
 - high degree of transparency
- Available in different sizes for various tube diameters
- Assembled RMLL + stopper may be provided on request
- Stopper w/ hydrophobic filter available

PLAIN STOPPER (for MALE LUER)

- May be used universally for wide variety of medical devices
- Available in WHITE or COLORED polypropylene (PP)

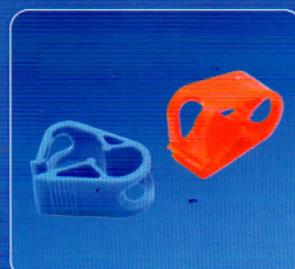


LUER CAP (THREADED STOPPER for FEMALE LUER)

- Universal 6% taper, complying with ISO-594 standard
- May be used universally for wide variety of medical devices
- Available in standard WHITE color or as per request
- Bulk-packed or packed in individual sterile blister

C-CLAMP (PINCH CLAMP, ON-OFF CLAMP)

- Universal on-off clamp for infusion and hemodialysis applications
 - May be used for tubes with OD range of 3.5 – 5.5 mm
- Available in PP material in WHITE (NATURAL), RED AND BLUE colors
 - Also available in POM (Polyacetal) material for specific applications



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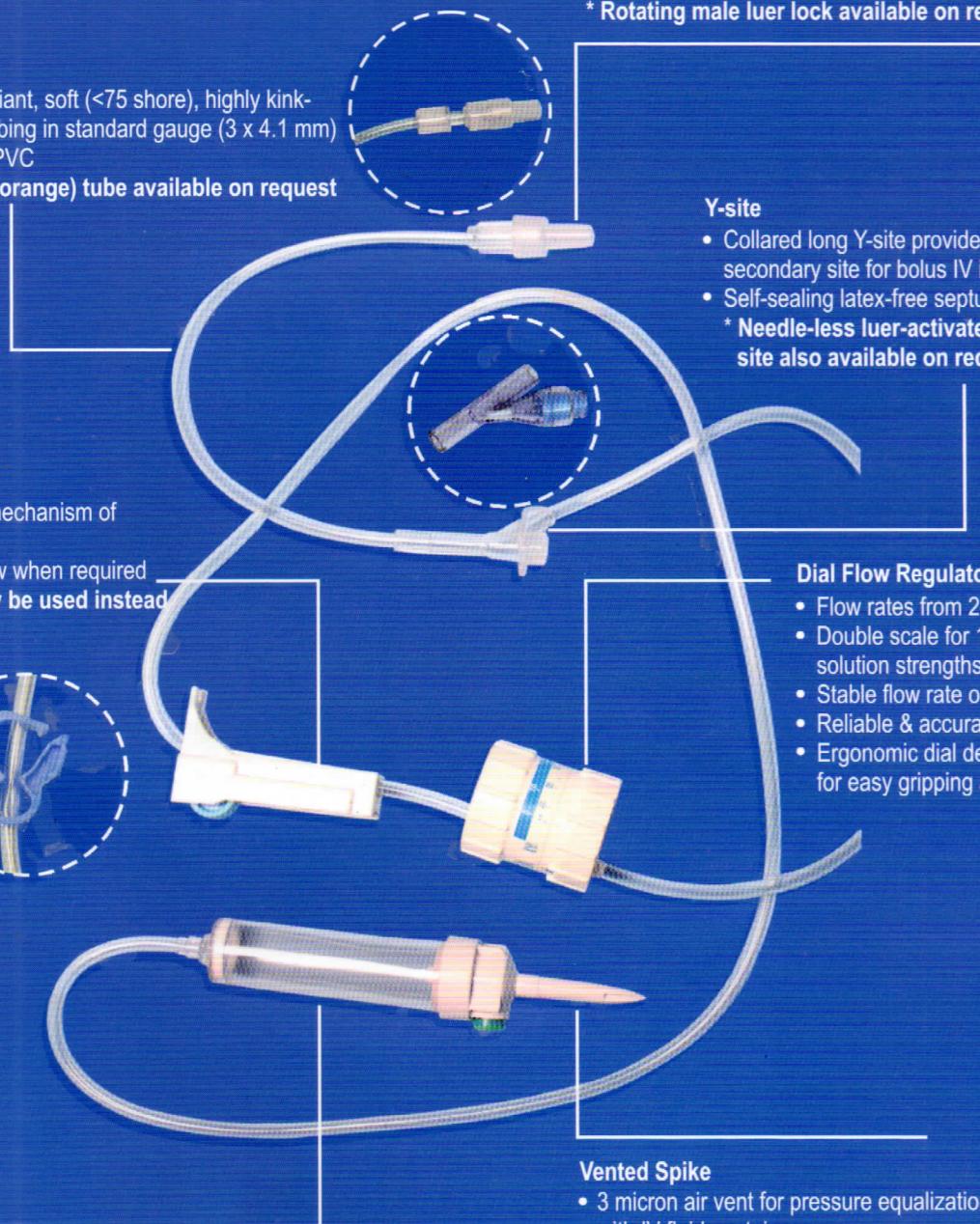
Harsoria™

FLOW REGULATOR INFUSION SET

Tube*

- USP Class VI compliant, soft (<75 shore), highly kink-resistant, medical tubing in standard gauge (3 x 4.1 mm)
- PVC or DEHP-free PVC

* Photo-protected (orange) tube available on request



Drip Chamber*

- Long drip chamber in PVC/DEHP-free material
- In-built 15 micron disk filter for particle filtration from IV fluid
- *** 60 drops/mL attachment for pediatric IV sets**
- Photo-protected (orange) drip chamber also available on request



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Harsoria™

FLOW REGULATOR EXTENSION SET

Dial Flow Regulator

- Flow rates from 20 to 250 mL/hr
- Double scale for 10% and 40% solution strengths
- Stable flow rate over time (1-72 hrs)
- Reliable and accurate flow control (+/- 10%)
- Ergonomic dial design with ridges for easy gripping and adjustment

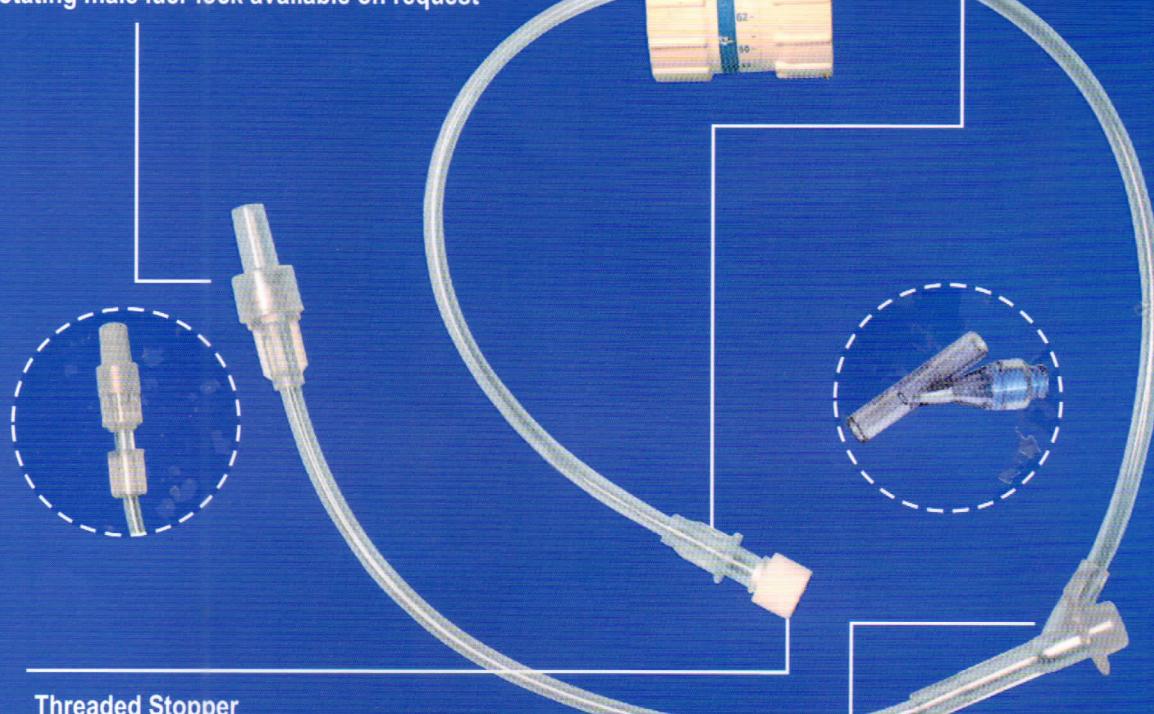
Male Luer Lock*

- Universal 6% taper as per ISO594 to be compatible with standardized devices
- Ribs for easy gripping and connection to patient-side IV access

*Rotating male luer lock available on request

Female Luer Lock

- Universal 6% taper as per ISO594 to be compatible with standardized devices
- Wings for easy gripping and attachment to IV fluid access



Threaded Stopper

- Optimal design for easy gripping

Tube*

- USP Class VI compliant, soft (<75 shore), highly kink-resistant, medical tubing in standard gauge (3 x 4.1 mm)
- PVC or DEHP-free PVC

* Photo-protected (orange) tube available on request

Y-site*

- Collared long Y-site provides optimal secondary site for bolus IV injection
- Self-sealing latex-free septum

*Needle-less luer-activated access site available on request



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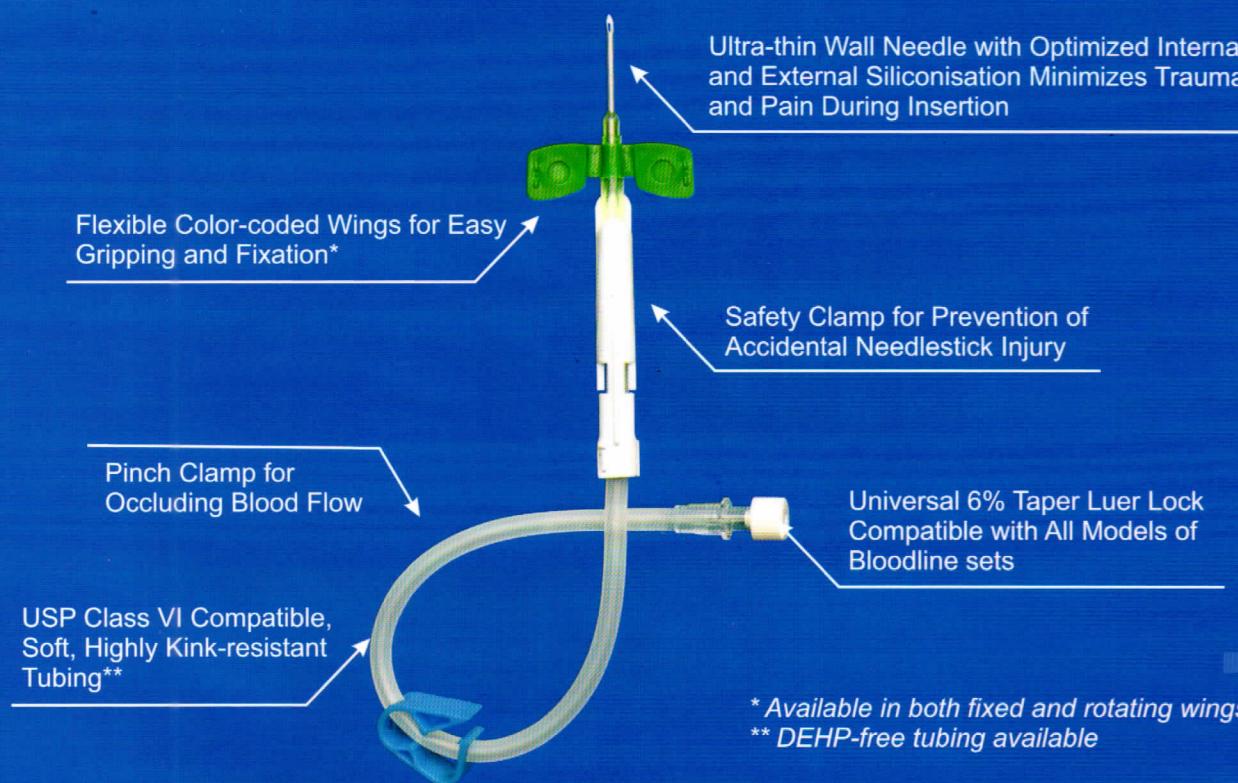
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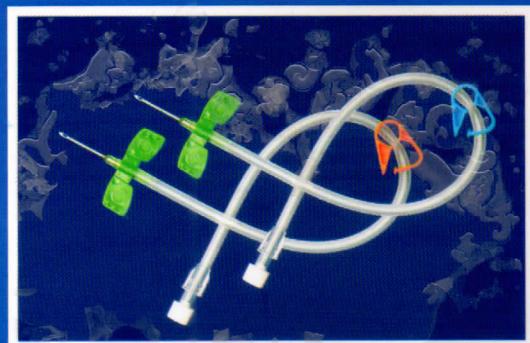
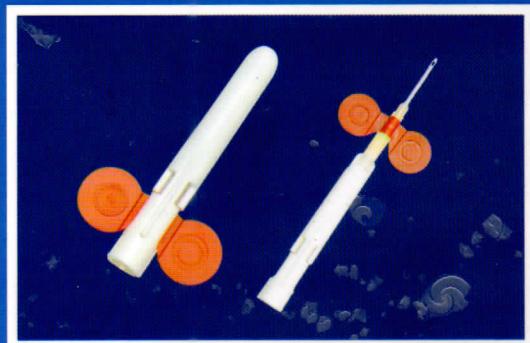
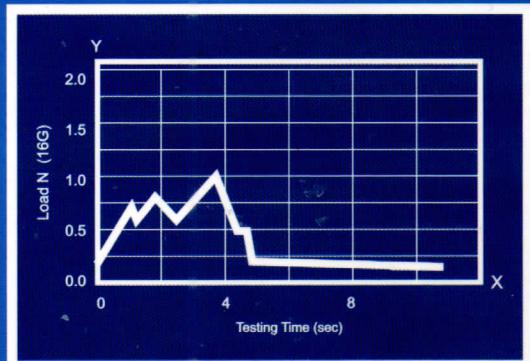
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Harsoria™ ARTERIO-VENOUS FISTULA NEEDLES



* Available in both fixed and rotating wings
** DEHP-free tubing available



Best-in-Class Penetration Performance

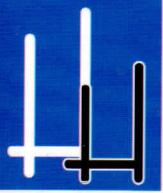
- High-quality, ultra thin-walled needles with optimized tip and bevel design
- Automated siliconisation using best-in-class materials
- State-of-the-art penetration testing equipment for QC & QA testing
- SS cannulae sourced from world-leading Japanese manufacturers

Optional Safety Clamp

- Device with safety clamp for prevention of accidental needle-stick injury
- After removal, safety clamp is advanced to fully enclose entire length of the needle
- Protects healthcare workers as well as medical waste handlers from risk of blood-borne pathogens

Product Options

- Rotating wings OR Fixed wings
- Single pack OR Twin pack
- With OR without Safety Clamp
- 15 cm OR 30 cm tube length
- Needle with OR without back-eye
- Red, Blue OR White Pinch Clamp
- DEHP-free tubing available



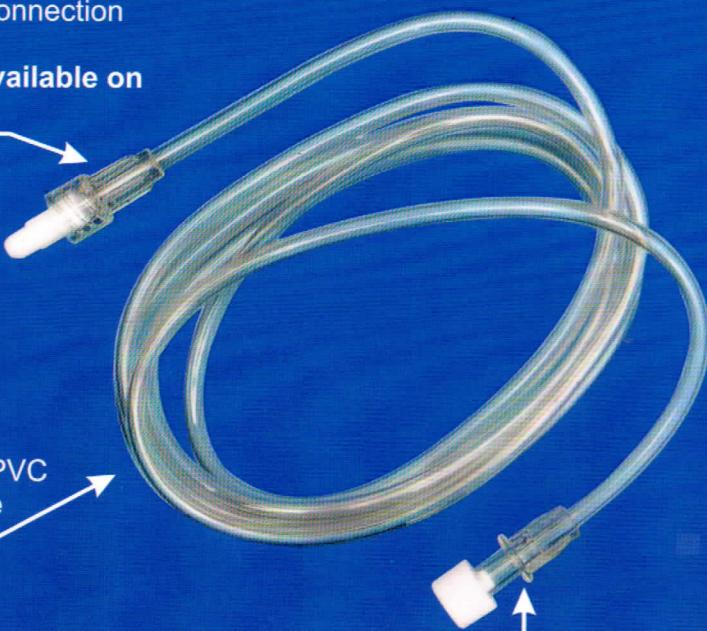
Harsoria™

Range of Extension Tubing Sets & Pressure Monitoring Lines

Male Luer Lock*

- Universal 6% taper as per ISO594 to be compatible with standardized devices
- Ribs for easy gripping and connection to patient-side IV access

*Rotating male luer lock available on request



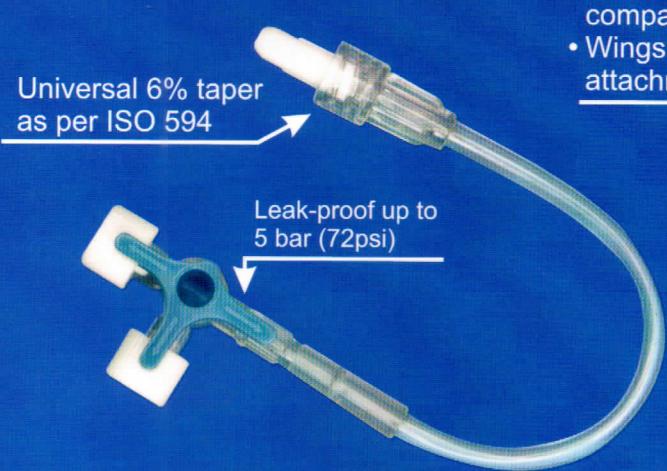
Tube*

- USP Class VI compliant, soft (<75 shore), highly kink-resistant,
- medical tubing in standard gauge (3 x 4.1 mm) PVC or DEHP-free PVC

* Photo-protected (orange) tube available on request

Female Luer Lock

- Universal 6% taper as per ISO 594 compatible with standard devices
- Wings for easy gripping & attachment to IV fluid access



Three Way Stop Cock with Extension Tubing

PRODUCT BENEFITS

- » Can be used with all standard IV sets using luer lock connections
- » Use of best-quality components conforming to international standards
- » Custom configurations available upon request
 - Tube Inner Diameter 1.2 mm OR 3.0 mm
 - Length of tubing ranging from 10cm - 250cm
 - Inline Y-Injection site optional
 - DEHP-free tubing

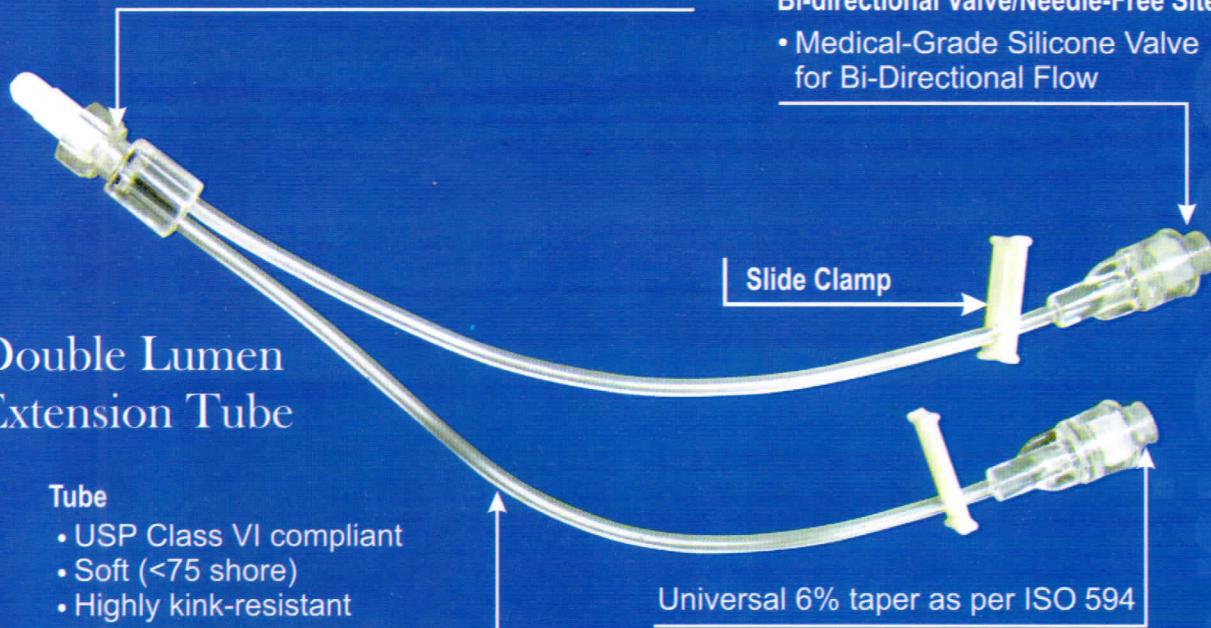


Harsoria™

Range of Multi-Lumen Extension Tubes

Male Luer Lock

- Universal 6% taper as per ISO594 to be compatible with standardized devices
- Ribs for easy gripping and connection to patient-side IV access



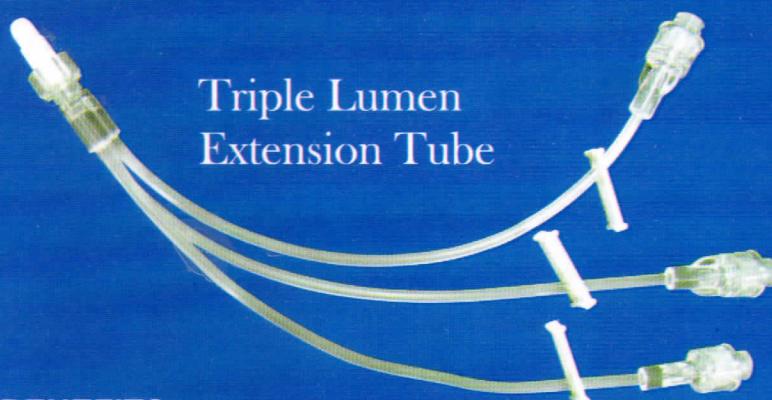
Double Lumen Extension Tube

Tube

- USP Class VI compliant
- Soft (<75 shore)
- Highly kink-resistant

Bi-directional Valve/Needle-Free Site

- Medical-Grade Silicone Valve for Bi-Directional Flow



PRODUCT BENEFITS

- Compatible with all standard IV sets & IV catheters using luer lock connections
- Use of best-quality components conforming to international standards
- Custom configurations available upon request
 - Length of tubing ranging from 5cm - 100 cm
 - Pinch Clamp (C-Clamp) or Slide Clamp
 - DEHP-free tubing optional



HARSORIA HEALTHCARE PVT. LTD.

110-111, Phase-IV, Udyog Vihar, Gurgaon, Haryana -122 015, INDIA

Tel. : +91-124-4523400 Fax : +91-124-4523424

E-mail : info@harsoria.com | www.harsoria.com



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Harsoria™

Injection Stopper with Needle Free Access Valve

Designed to Deliver Unparalleled Neutral Fluid Displacement

Universal 6% male taper,
conforms to ISO 594



Universal 6% female luer,
conforms to ISO 594

Single Fluid Path



Integrated rib design
facilitates easy gripping



Self sealing septum
prevents microbial ingress

Advantages

- The needle free access valve offers a flat, smooth swabable surface and self-opening split septum resulting in superior valve performance.
- Low priming volume
- Clear housing
- Easy to swab

Does not contain latex or DEHP



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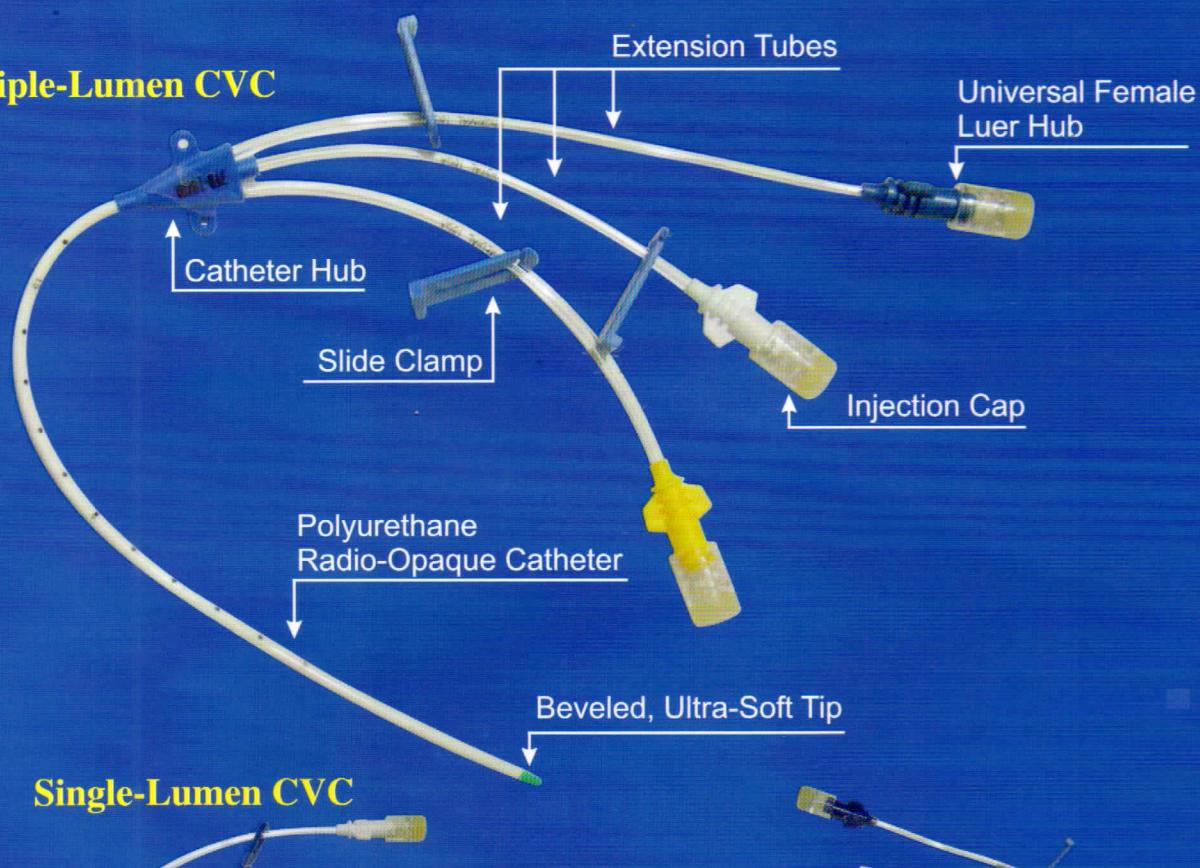
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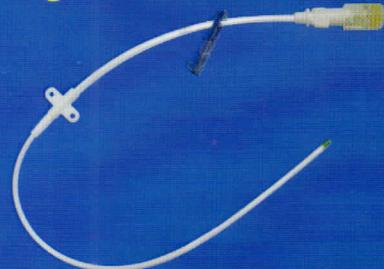


Harsoria™ CENTRAL VENOUS CATHETERS (PICC LINES)

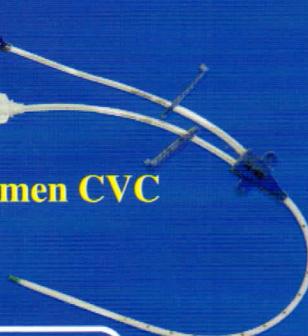
Triple-Lumen CVC



Single-Lumen CVC

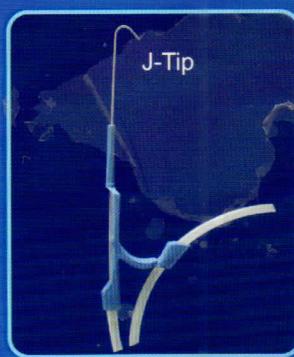


Double-Lumen CVC



- Sizes: 4 Fr, 4.5 Fr, 5 Fr, 5.5 Fr, 7 Fr, 8 Fr, 8.5 Fr
- Catheter Lengths: 5 cm - 30 cm
- Quad Lumen Catheter also available

Standard Accessories included in Procedure Kit



Nitinol-Core Guidewire



Y-Shaped Introducer Needle



Dual Vessel Dilators



Hollow Syringe



Harsoria®

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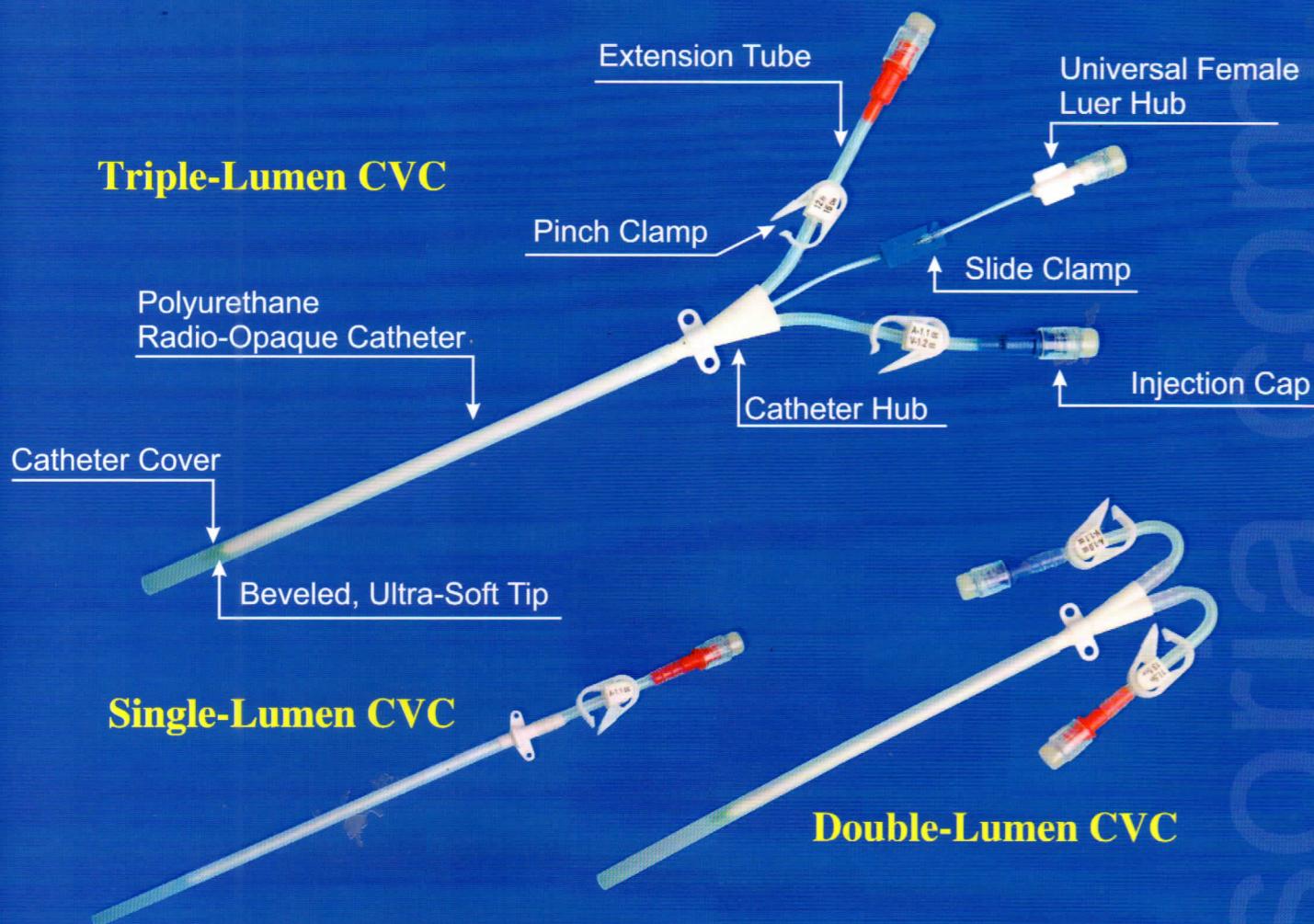
Tel. : +91-124-4523400 Fax : +91-124-4523424

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Harsoria™ HEMODIALYSIS CATHETERS

Triple-Lumen CVC

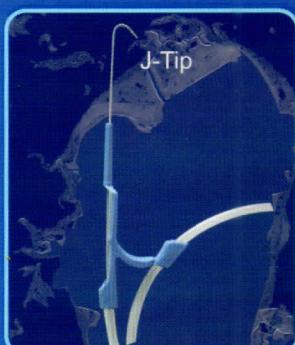


Single-Lumen CVC

Double-Lumen CVC

- Sizes: 8.5 Fr, 10 Fr, 11.5 fr, 12 Fr
- Catheter Lengths: 10 cm, 13 cm, 16 cm, 20 cm
- Extension Tubes: Curved (Jugular) & Straight (Subclavian)

Standard Accessories included in Procedure Kit



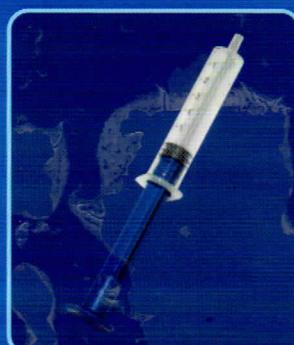
Nitinol-Core Guidewire



Straight Introducer Needle



Dual Vessel Dilators



Hollow Syringe



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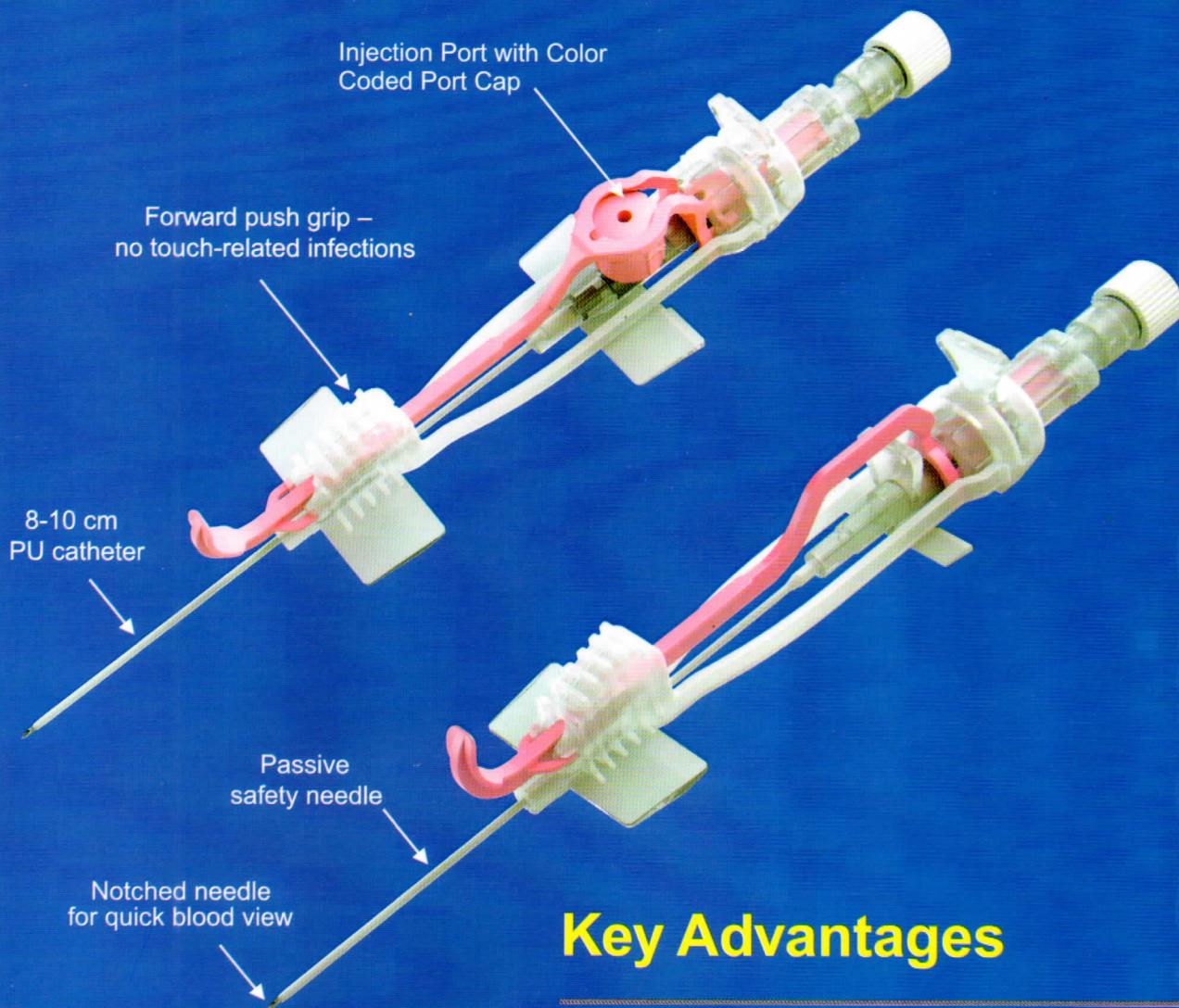
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Bullpup™ M29 IV Midline Catheter



Key Advantages

- Lowest IV access cost in the market
- Up to 29 days dwell time
- Standard insertion procedure
- Minimal training
- Reduces catheter restarts and associated needle sticks
- High patient satisfaction

Manufactured by Harsoria Healthcare Pvt. Ltd., India exclusively for Bullpup Scientific Ltd.

Bullpup is a Trade Mark of Bullpup Scientific Ltd.



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Bullpup™ M29 IV Midline Catheter

Product Specifications

Category : Safety IV catheter

Clinical indication : IV access > 48 hours

Dwell time : Up to 29 days

Insertion time : <1 minute

Gauge : 23-18ga

Pressure : Rated up to 300 PSI

Catheter Length : 8 - 10 cm

Ultrasound compatible

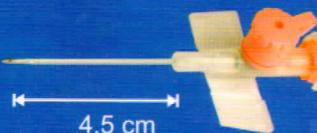
Deep vein access

Notched needle for quick blood view

M29 IV Midline Catheter

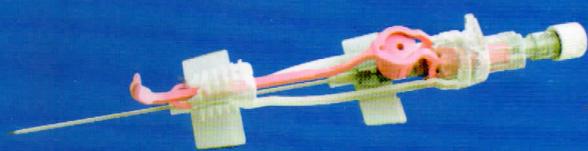


Peripheral IV Catheter



Filling a Very Large IV Access Gap

- 90% of hospitalized patients require IV access
- Average length of hospital stay is 5-6 days
- Dwell-time of standard peripheral IV catheter is 48-72 hours
- A successful insertion requires on average 2.2 needle sticks
- 300 million standard IV cannulas are used each year in the US alone
- 30-40% of hospitalized patients (and the same number of home care treatments) could benefit from a Midterm IV catheter – an average of 14 million products a year in the US alone



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