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INFUSION THERAPY



RESPIRATORY & ICU



ENDOVASCULAR



UROLOGY



HEMODIALYSIS



INTERVENTIONAL RADIOLOGY



SURGERY



WOUND CARE



**Interventional  
Radiology**



**Surgery** **Wound Care**



**Hemodialysis**



**Urology**



**Infusion Therapy**



**Endovascular**

**Respiratory & ICU**

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# INFUSION THERAPY

## Administration

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## Access

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## Site Care

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# IV Administration Set

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# Infusion Therapy

Infusion therapy is a safe and effective way to deliver fluids, medications, and nutrients to the body:

1. It allows for direct and accurate delivery of fluids and medications to the bloodstream
2. It can be used to deliver variety of fluids and medications, including blood, medications, and parenteral nutrition
3. Infusion therapy is suitable for much more efficient treatment of chronic illnesses since it delivers medicine, antibiotics, and/or hydration directly into the bloodstream.

## IV Administration Set

**VITALINE®**

IV Administration Set Vented 190cm with Check Valve 20010101

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 190cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp - Fixed Male LL with Check Valve for Tube of OD : 4.1mm - Male LL Cap Vented with Air Filter.

IV Administration Set Vented 190cm 20010102

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 190cm - Drip Chamber Vented with 20 Drop/ml & 15µm Fluid Disk Filter - Safety Roller Clamp - Fixed Male LL for Tube of OD : 4.1mm - Male LL Cap Vented with Air Filter.

IV Administration Set Vented 180cm 20010103

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Drip Chamber Vented, 20 Drops/ml with 15µm Fluid Disk Filter - Safety Roller Clamp - Fixed Male LL for Tube of OD : 4.1mm - Male LL Cap

IV Administration Set Vented (R) 180cm 20010104

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Drip Chamber Vented - 20 Drops/ml - with 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm + Rotated Male LL for Tube of OD: 4.1mm - Male LL Cap

IV Administration Set Vented with Fluid Filter 180cm 20010105

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Filter.

IV Administration Set Vented with Fluid Filter and Check Valve 180 cm 20010106

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL with Check Valve for Tube of OD: 4.1mm - Male LL Cap Vented with Filter.

IV Administration Set Vented with Y-Injection Port 180 Cm 20010107

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Latex Free Y-Injection Port - Fixed Male LL for Tube of OD : 4.1mm - Male LL Cap

IV Administration Set Vented with Y-Injection Port 150 Cm 20010108

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Latex Free Y-Injection Port - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap

IV Administration Set Vented (R) 150cm 20010109

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter - Rubber Bulb

IV Administration Set Vented 150cm 200101010

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops /ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter.

IV Administration Set Vented 150cm with Dual-Chamber 20010111

**Product Description**

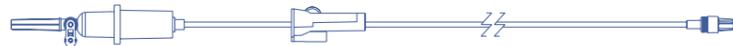


PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Dual Drip Chamber Vented with 20 Drops /ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap

## IV Administration Set Vented Dual Chamber with fluid filter 180 cm

20010112

## Product Description



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Dual Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Filter

## IV Administration Set Vented Dual Chamber with air stop filter and check Valve 180 cm

20010113

## Product Description

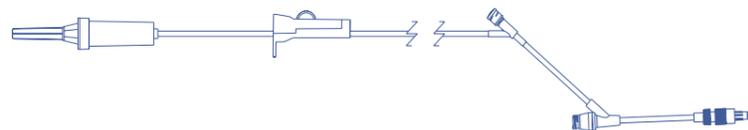


PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Dual Drip Chamber Vented with 20 Drops /ml & Air Stop Filter - Safety Roller Clamp for Tube OD : 4.1mm - Fixed Male LL with Check Valve for Tube of OD: 4.1mm - Male LL Cap Vented with Filter

## IV Administration Set UnVented with Micro-Drip &amp; Needle free Y-Port 211 cm

20010114

## Product Description



PVC DEHP Free Tube OD: 4.1 mm, ID: 3 mm, L: 211 cm - Drip Chamber UnVented with Micro 60 Drops /ml - Small Bore Roller Clamp for Tube OD: 4.1 mm - Needle Free Y Connector for Tube OD : 4.1 mm - Latex Free Y-Injection Port - Rotated Male LL for Tube of OD : 4.1mm - Male LL Cap

## IV Administration Set UnVented with Needle Free Y Port 211 cm

20010115

## Product Description

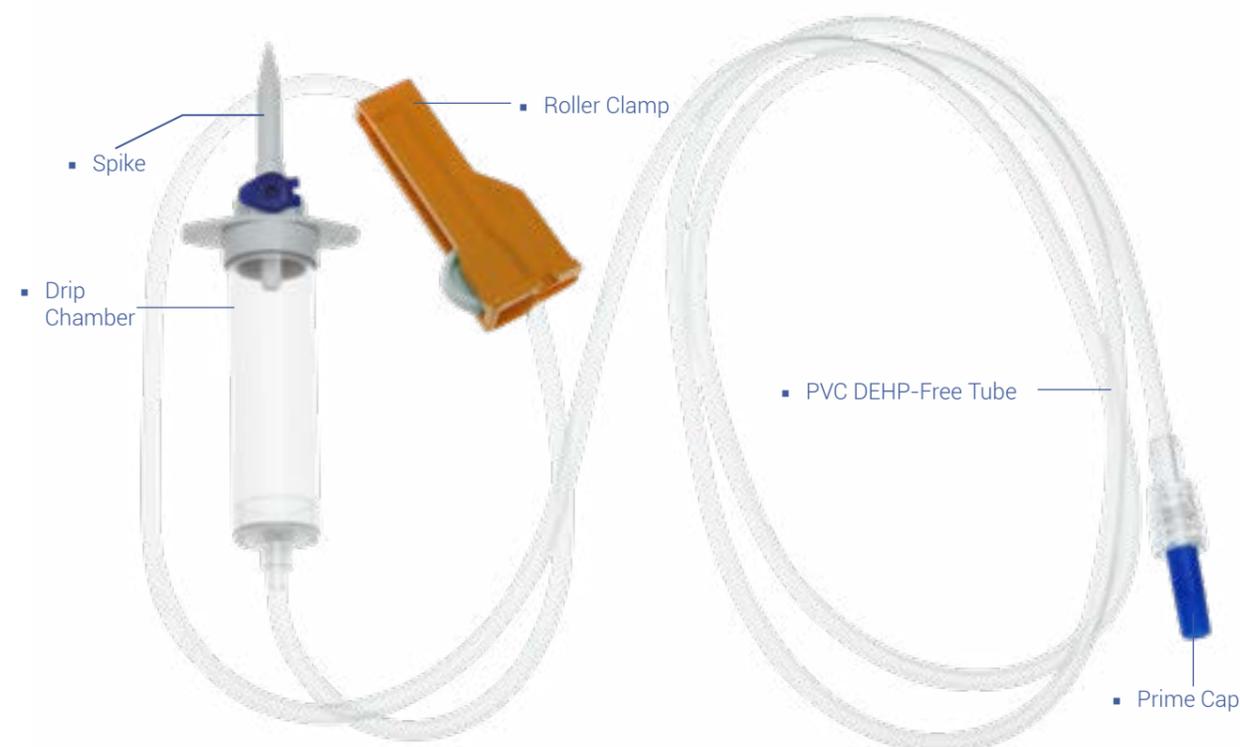


PVC DEHP Free Tube OD: 4.1 mm, ID: 3 mm, L: 211cm - Drip Chamber UnVented with 15 drops/ml - Small Bore Roller Clamp for Tube OD: 4.1 mm - Latex Free Y-Injection Port - Needle Free Y Connector for Tube OD : 4.1 mm - Rotated Male LL for Tube of OD : 4.1mm - Male LL Cap

- An intravenous administration set (IV Set) is a sterile, disposable medical device used to administer fluids, medications, and other substances directly into a patient's vein. IV sets are typically made of plastic and consist of a number of components, including:
- A drip chamber, which allows the healthcare provider to visualize the flow of fluid to inject medications.
- A filter, which removes impurities from the fluid.
- A tubing, which connects the fluid bag to the patients vein.
- A needle or catheter, which is inserted into the patients vein.
- A flow regulator, which allows the healthcare provider to control the rate of fluid flow.

## VitaLine Code List

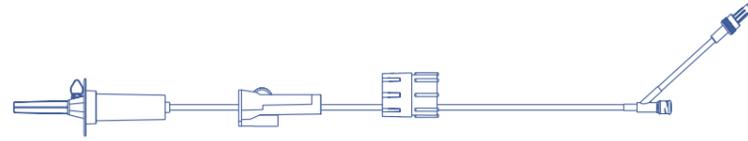
Description	Code No.
IV Administration Set, Vented 190 cm with Check Valve	20010101
IV Administration Set, Vented 190 cm	20010102
IV Administration Set, Vented 180 cm	20010103
IV Administration Set, Vented-R 180 cm	20010104
IV Administration Set, Vented with Fluid Filter 180 cm	20010105
IV Administration Set, Vented with Fluid Filter and Check Valve 180 cm	20010106
IV Administration Set Vented with Y-Injection Port 180 cm	20010107
IV Administration Set Vented with Y-Injection Port 150 cm	20010108
IV Administration Set, Vented-R 150 cm	20010109
IV Administration Set, Vented 150 cm	20010110
IV Administration Set, Vented 150 cm with Dual Chamber	20010111
IV Administration Set, Vented Dual Chamber with Fluid Filter 180 cm	20010112
IV Administration Set, Vented Dual Chamber with Check Valve 180 cm	20010113
IV Administration Set, Non-Vented with Micro Drip and Needle Free Y-Port 211 cm	20010114
IV Administration Set, Non-Vented with Needle Free Y-Port 211 cm	20010115



**IV Administration Set, Vented with Micro-Regulator and Needle Free Y-Port 150 cm** 20010201

**Product Description**

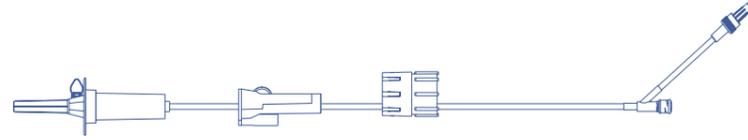
PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 150cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Flow Micro Regulator 5-250 ml/hr - Latex Free Y-Injection Port for Tube OD : 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter



**IV Administration Set, Vented with Micro-Regulator and Needle Free Y-Port 155 cm** 20010202

**Product Description**

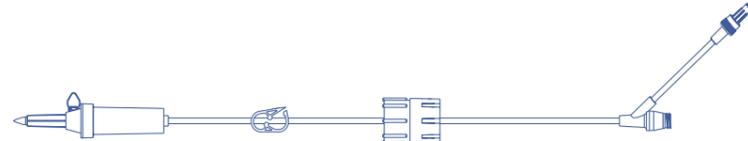
PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 155cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Flow Micro Regulator 5-250 ml/hr - Latex Free Y-Injection Port for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter



**IV Administration Set with Micro-Regulator and Needle Free Connector 210 cm** 2010203

**Product Description**

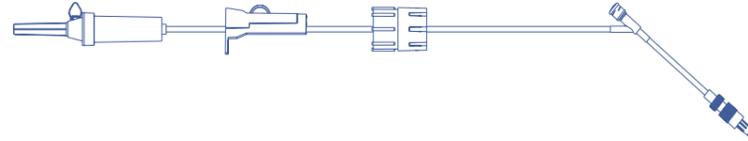
PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 210cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Pinch Clamp for Tube OD: 4.1mm - Flow Micro Regulator 5-250 ml/hr - Needle Free Y connector for Tube OD : 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap



**IV Administration Set Vented with Micro-Regulator 234 cm** 20010204

**Product Description**

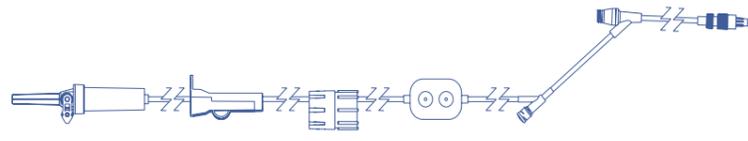
PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 234cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Small Bore Roller Clamp for Tube OD: 4.1 mm - Rotated Male LL for Tube of OD: 4.1mm - Latex Free Y-Injection Port - Flow Micro Regulator 5-250 ml/hr - Male LL Cap



**IV Administration Set Vented with Micro-Regulator & 0.2µm Filter 246cm** 20010205

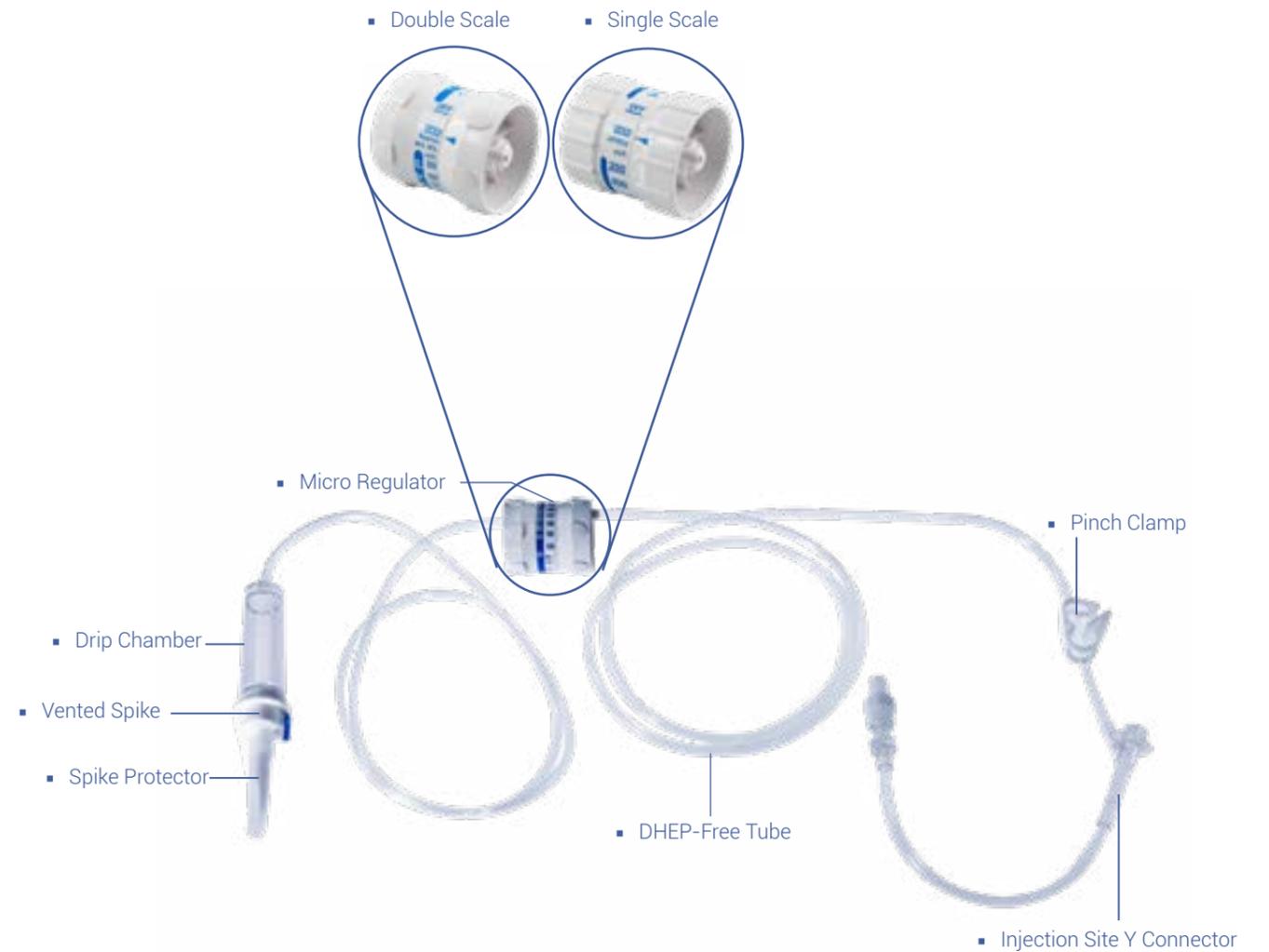
**Product Description**

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 246cm - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Small Bore Roller Clamp for Tube OD: 4.1 mm - Rotated Male LL for Tube of OD: 4.1mm - Needle Free Y Connector for Tube OD: 4.1mm - Latex Free Y-Injection Port - Flow Micro Regulator 5-250 ml/hr - In line filter 0.2µm - Male LL Cap



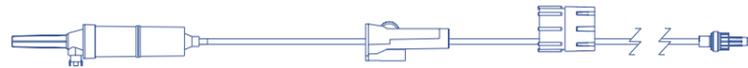
## VitaFlow Code List

Description	Code No.
IV Administration Set, Vented with Micro-Regulator and Needle Free Y-Port 150 cm	20010201
IV Administration Set, Vented with Micro-Regulator and Needle Free Y-Port 155 cm	20010202
IV Administration Set with Micro-Regulator and Needle Free Connector 210 cm	20010203
IV Administration Set, Vented with Micro-Regulator 234 cm	20010204
IV Administration Set, Vented with Micro-Regulator & 0.2 µm Filter 246 cm	20010205



**IV Administration Set Vented with air stop filter, Micro Regulator & Check Valve 180 cm** 20010301

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Drip Chamber Vented with 20 Drops/ml & Air Stop Filter - Safety Roller Clamp for Tube OD: 4.1mm - Flow Micro-Regulator 5-250ml/hr - Fixed Male LL with Check Valve for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter

**IV Administration Set Vented with air stop filter & Vented Cap 180cm** 20010302

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Drip Chamber Vented with 20 Drops/ml & Air stop filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter

**IV Administration Set Vented with air stop filter & 3-way stopcock 195cm** 20010303

**Product Description**



PVC DEHP free Tube OD: 4.1mm, ID: 3mm, L: 195cm - Drip Chamber Vented with 20 Drops/ml & Air Stop Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL with Check Valve for Tube of OD: 4.1mm - 3 Way Valve with 2 Female End for Tube - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Air Filter

**IV Administration Set Vented Dual Chamber with air stop filter 180cm** 20010304

**Product Description**



PVC DEHP free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Dual Drip Chamber Vented with 20 Drops/ml & Air Stop Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Filter

**IV Administration Set Vented Dual Chamber with fluid filter and check valve 180cm** 20010305

**Product Description**



PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Dual Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL with Check Valve for Tube of OD: 4.1mm - Male LL Cap Vented with Filter

**IV Administration Set Vented with air stop filter and Check Valve 180cm** 20010306

**Product Description**

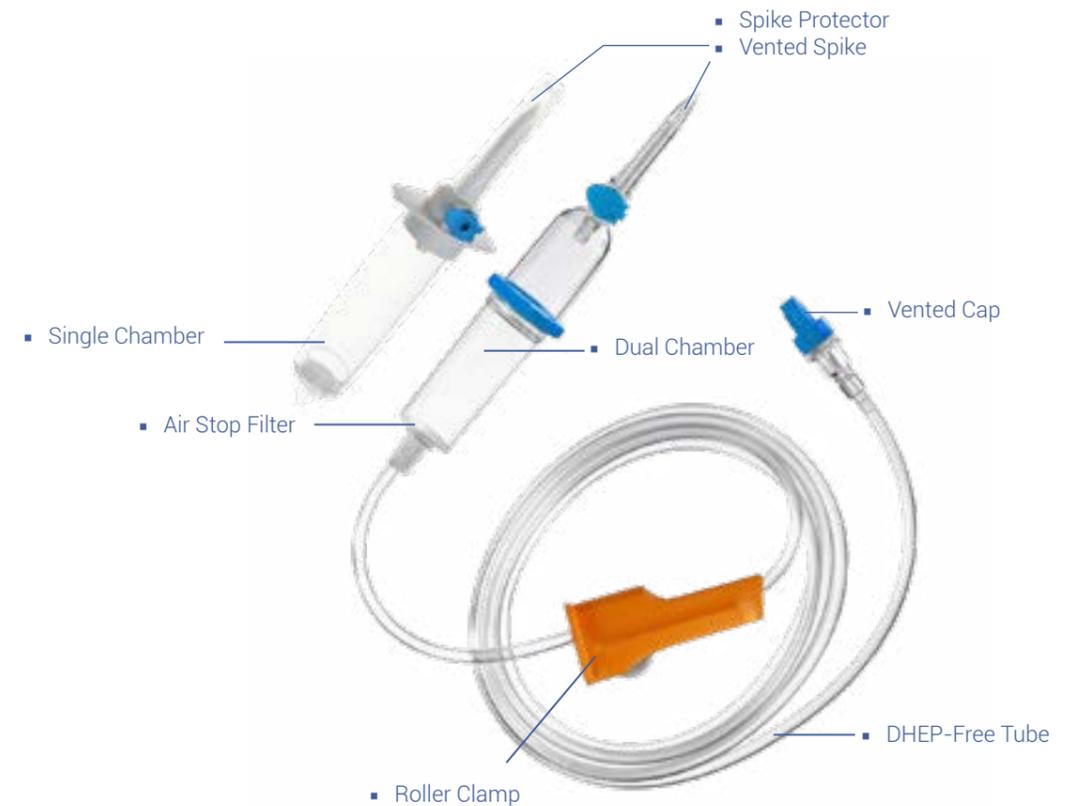


PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 180cm - Dual Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Male LL with Check Valve for Tube of OD: 4.1mm - Male LL Cap Vented with Filter

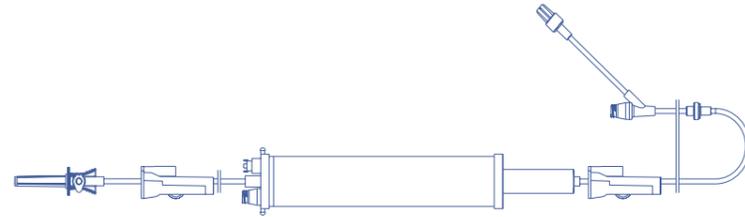
**VitaSafe Code List**

Description	Code No.
IV Administration Set, Vented with Air Stop Filter, Micro Regulator and Check Valve 180 cm	20010301
IV Administration Set, Vented with Air Stop Filter and Vented Cap 180 cm	20010302
IV Administration Set, Vented with Air Stop Filter and 3-way Stopcock 195 cm	20010303
IV Administration Set, Vented Dual Chamber with Air Stop Filter 180 cm	20010304
IV Administration Set, Vented Dual Chamber with Fluid Filter and Check Valve 180 cm	20010305
IV Administration Set, Vented with Air Stop Filter and Check Valve 180 cm	20010306

- Air embolism is one of such complications which may cause death of patients in some cases. Air embolism, also called a gas embolism, occurs when one or more air bubbles enter a vein or artery and block it. This is a serious condition.
- When an air bubble enters a vein, it's called a venous air embolism. When an air bubble enters an artery, it's called an arterial air embolism. These air bubbles can travel to brain, heart, or lungs and cause a heart attack, stroke, or respiratory failure.
- Therefore, according to healthcare market development, air stop filter infusion therapy is provided, which prevents air bubbles from entering the patient's venous system via the infusion line and blocks the fluid flow to protect entrance of the air bubble into the human body.



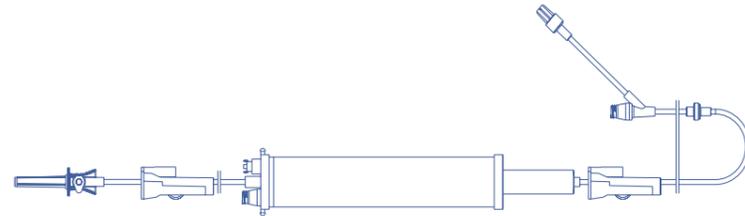
**IV Administration Micro-Drip Burette Set with Needle Free, Back Check Valve & Vented Cap 225cm** 20010401



**Product Description**

Burette Chamber 150ml Vented with Micro Drip 60 Drops/ml & Needle Free Connector - Vented Spike - Safety Roller Clamp for Tube OD: 4.1mm - PVC DEHP Free Tube - Needle Free Y Connector for Tube OD: 4.1 mm - In-Line Check Valve - Fixed Male LL for Tube OD : 4.1 mm - Male LL Cap Vented with Air Filter

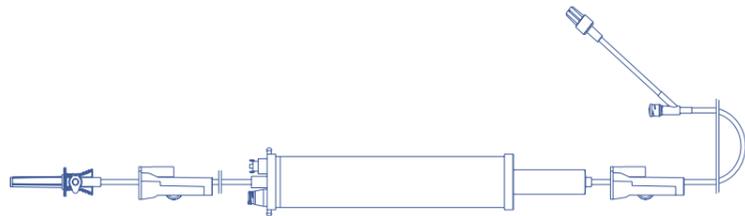
**IV Administration Burette Set with Needle Free, Back Check Valve & Vented Cap 225cm** 20010402



**Product Description**

Burette Chamber 150ml Vented with 20 Drops/ml & Needle Free Connector - Vented Spike - Safety Roller Clamp for Tube OD: 4.1mm - PVC DEHP Free Tube - Needle Free Y Connector for Tube OD: 4.1mm - In-Line Check Valve - Fixed Male LL for Tube OD: 4.1 mm - Male LL Cap Vented with Air Filter

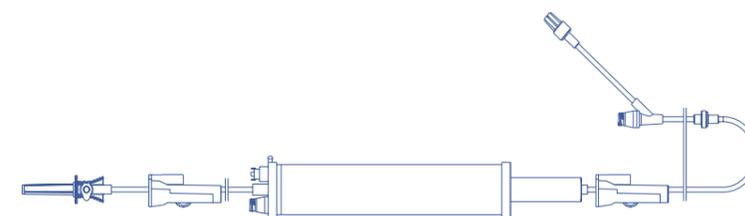
**IV Administration Micro-Drip Burette Set with Air Stop, Y-Injection Port & Vented Cap 225cm** 20010403



**Product Description**

Burette Chamber 150ml Vented with Micro Drip 60 Drops/ml & Silicone Injection Port - Vented Spike - Safety Roller Clamp for Tube OD: 4.1mm - PVC DEHP Free Tube - Latex Free Y Connector for Tube OD: 4.1mm - Fixed Male LL for Tube OD: 4.1mm - Male LL Cap Vented with Air Filter

**IV Administration Micro-Drip Burette Set with Air Stop, Needle Free & Vented Cap 225cm** 20010404



**Product Description**

Burette Chamber 150ml Vented with Micro Drip 60 Drops/ml, Air Stop Filter & Needle Free Connector - Vented Spike - Safety Roller Clamp for Tube OD: 4.1mm - PVC DEHP Free Tube - Needle Free Y Connector for Tube OD: 4.1mm - In-Line Check Valve - Fixed Male LL for Tube OD: 4.1mm - Male LL Cap Vented with Air Filter

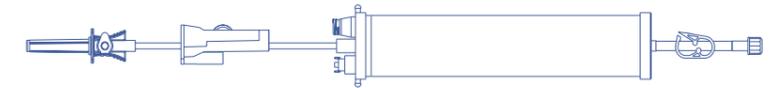
**IV Administration Burette Set with Air Stop , Needle Free & Vented Cap 225cm** 20010405



**Product Description**

Burette Chamber 150ml Vented with 20 Drops/ml, Air Stop Filter & Needle Free Connector for Tube OD: 4.1 mm - Vented Spike - Safety Roller Clamp for Tube OD: 4.1mm - PVC DEHP Free Tube - Male LL Cap Vented with Air Filter - Needle Free Y Connector for Tube OD: 4.1mm - In-Line Check Valve - Fixed Male LL for Tube OD: 4.1 mm

**IV Administration Burette Set with Needle Free Port 50cm** 20010406

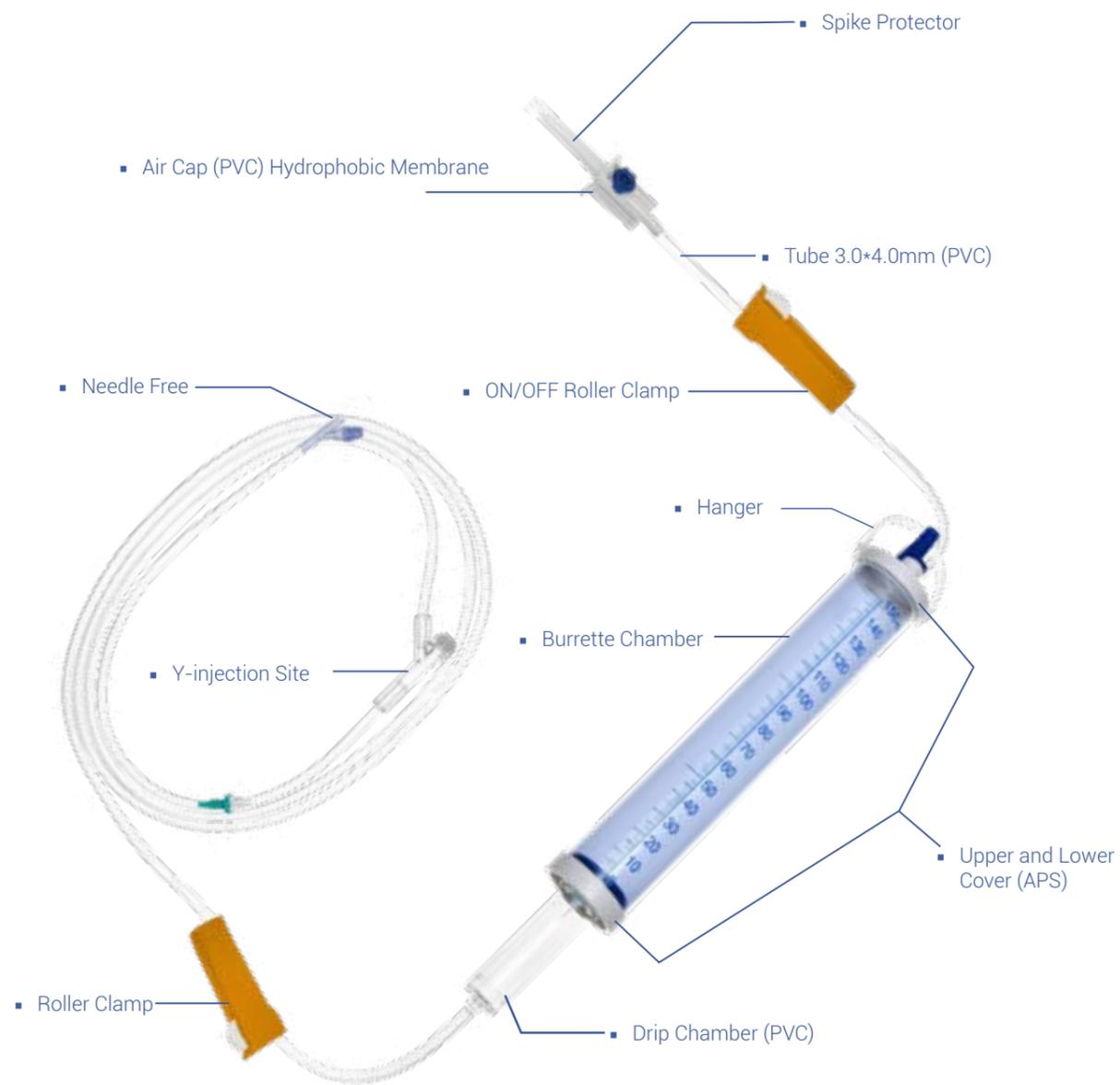


**Product Description**

Burette chamber 150ml Vented with Needle free connector for Tube OD: 4.1mm - Vented spike - Safety roller clamp for Tube OD: 4.1mm - PVC DEHP free Tube - Male LL Cap - Fixed male LL for Tube OD : 4.1 mm - Pinch clamp - Male LL Cap

## VitaDose Code List

Description	Code No.
IV Administration Micro-Drip Burette Set with Needle Free, Back Check Valve and Vented Cap 225 cm	20010401
IV Administration Burette Set with Needle Free, Back Check Valve and Vented Cap 225 cm	20010402
IV Administration Micro-Drip Burette Set with Y-Injection Port and Vented Cap 225 cm	20010403
IV Administration Micro-Drip Burette Set with Air Stop Filter, Needle Free and Vented Cap 225 cm	20010404
IV Administration Burette Set with Air Stop Filter, Needle Free and Vented Cap 225 cm	20010405
IV Administration Burette Set with Needle Free Port 50 cm	20010406



## SPECIAL SETS

Vitapur Administration Set, Vented 0.2 µm Filter 234 cm

20010501

### Product Description

PVC DEHP Free Tube - Drip Chamber Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Small Bore Roller Clamp for Tube OD: 4.1 mm - In-Line Filter 0.2µm for Tube of OD: 4.1mm - Latex Free Y-Injection Port - Rotated Male LL for Tube of OD: 4.1mm

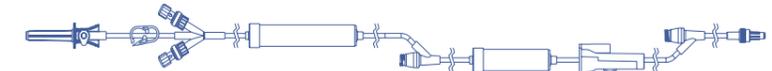


Cytopro 3 Port with Check Valve 3 Port

20010601

### Product Description

Drip Chamber for Tube 4.1mm, Length: 154 mm & 15µm Filter - Vented Spike with Air Filter for Tube OD: 4.1mm with Cap - Triple Connector 2 Female Luer Locks with Tubing Connector OD: 4.1 mm - Check Valve Male to Female Connector - Male LL Cap Vented with Filter - Fixed Male LL for Tube OD: 4.1mm - Safety Roller Clamp - Needle Free Y Connector - Pinch Clamp

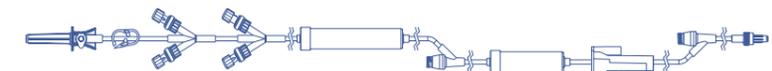


Cytopro 3 Port with Check Valve 5 Port

20010602

### Product Description

Drip Chamber for Tube 4.1mm, Length: 154mm & 15µm Filter - Vented Spike with Air Filter for Tube OD: 4.1mm with Cap - Triple Connector 2 Female Luer Locks with Tubing Connector OD: 4.1 mm - Check Valve Male to Female Connector - Male LL Cap Vented with Filter - Fixed Male LL for Tube OD: 4.1mm - Safety Roller Clamp - Needle Free Y Connector - Pinch Clamp

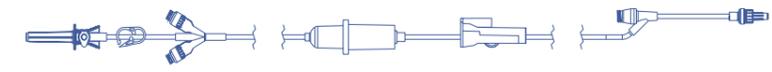


Cytopro 3 Port with Needle Free 3 Port

20010603

### Product Description

Vented Spike with Air Filter for Tube OD: 4.1mm with Cap - Triple Connector 2 Female Luer Locks with Tubing Connector OD: 4.1 mm - Needle Free Male to Female Connector - Male LL Cap Vented with Filter - Male LL with Check Valve - Safety Roller Clamp - Needle Free Y Connector - 15µm Filter in the Drip Chamber - Pinch Clamp

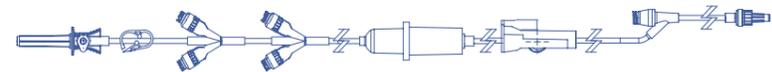


Cytopro 3 Port with Needle Free 5 Port

20010604

### Product Description

Vented Spike with Air Filter for Tube OD: 4.1mm with Cap - Triple Connector 2 Female Luer Locks with Tubing Connector OD: 4.1mm - Needle Free Male to Female Connector - Male LL Cap Vented with Filter - Male LL with Check Valve - Safety Roller Clamp - Needle Free Y Connector - 15µm Filter in the Drip Chamber - Pinch Clamp



## Special Sets Code List

Description	Code No.
Vitapur Administration Set, Vented 0.2 µm Filter 234 cm	20010501
Cytopro 3 Port with Check Valve 3 Port	20010601
Cytopro 3 Port with Check Valve 5 Port	20010602
Cytopro 3 Port with Needle Free 3 Port	20010603
Cytopro 3 Port with Needle Free 5 Port	20010604

### Note



Needle free connectors are devices that allow the safe administration of fluids and medications without the use of needle. It has different types; Positive, Negative & Neutral:



1. **Negative Needle Free Port:** Has negative displacement when something is connected or disconnected or when an administration set is connected. In that case, the blood is allowed to move back or reflux into the catheter's lumen.



2. **Positive Needle Free Port:** Has positive displacement, it keeps a reservoir of fluid that will occupy the catheter's lumen when an IV set or syringe is disconnected. In this case, blood is not allowed to move back or reflux into the catheter's lumen.

3. **Neutral Needle Free Port:** Neutral displacement prevents the blood from occupying the catheter's lumen when a connection or disconnection is made.

## features and benefits

Photos	Features	Benefits
	Auto air stop filter	Prevents air from entering the patient's bloodstream, It protects patients from air embolism
	Priming filter	Prevents infection, wastage of intravenous fluid, and admixed medications
	Soft Chamber	Acts as a pump which helps negative pressure for fluids flow
	Uniquely designed ring around the drip chamber	Provides secure gripping
	DEHP-free double drip chamber	Allows easy and fast priming
	DEHP-free tubing	Reduces toxicity
	"Y" injection port (latex free)	Allows intermittent medications, prevent latex allergy
	Standard Tube length of 150 cm.	Allows greater flexibility and leeway
	Safety Roller Clamp	Compresses Tube without disfigurement
	Check Valve	To avoid the drag back flow It helps two drugs can put together
	Burette Chamber	To ensure that patients receive the correct amount of fluid and that air does not enter their bloodstream

# Extension Sets



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# Extension Sets

- Extension lines are used to extend the length of an IV administration set or other medical tubing. They consist of a length of tubing with a connector or injection port at each end that allows for the connection of multiple devices or extension of existing medical tubing.
- Extension lines are important medical devices which allow deliver of medical treatment safely and efficiently.
- When used appropriately and with proper care, extension lines are a safe and effective means of extending medical tubing and connecting multiple devices for the administration of intravenous therapy, monitoring of vital signs, or other medical purposes.
- Extension lines come in various lengths and sizes.

## Extension Lines Standard (Heidelberger Type)

### IV Extension Line 20020101



	Code	Length
<b>Product Description</b>	20020101	3 mm x 200 cm
PVC DEHP Free Tube OD: 3mm, ID: 1mm - Female LL Cap PVC DEHP Free Tube OD: 4.1mm, ID: 3m - Fixed Female LL & Cap - Fixed Male LL with Check Valve for Tube of OD: 4.1 mm - Male LL Cap	20020102	3mm x 150 cm
	20020103	3mm x 300 cm

### IV Extension Line Standard Set 4.1 mm x 25 cm 20020104



	Code	Length
<b>Product Description</b>	20020104	4.1 mm x 25 cm
PVC DEHP Free Tube OD: 4.1mm, ID: 3mm - Fixed Female LL for Tube of OD : 4.1 mm - Fixed Male LL for Tube of OD : 4.1 mm - Male LL Vented Cap - Female LL Cap	20020105	4.1 mm x 40 cm
	20020106	4.1 mm x 60 cm
	20020107	4.1 mm x 100 cm
	20020108	4.1 mm x 120 cm
	20020109	4.1 mm x 150 cm

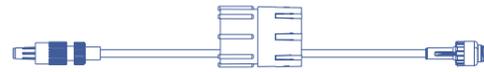
## Heidelberger Type Code List

Description	Code No.
IV Extension Set 3mmx200cm	20020101
IV Extension Set 3mmx150cm	20020102
IV Extension Set 3mmx300cm	20020103
IV Extension Line Standard Set 4.1mmx25cm	20020104
IV Extension Line Standard Set 4.1mmx40cm	20020105
IV Extension Line Standard Set 4.1mmx60cm	20020106
IV Extension Line Standard Set 4.1mmx100cm	20020107
IV Extension Line Standard Set 4.1mmx120cm	20020108
IV Extension Line Standard Set 4.1mmx150cm	20020109



# FLOWMATE<sup>®</sup> with Flow Regulators

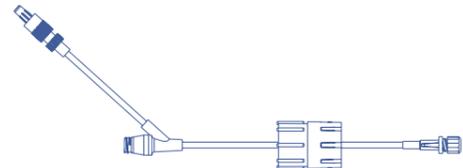
## Extension Line with Micro-Regulator and Needle Free Connector (45cm) 20020201



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 45cm - Flow Micro-Regulator 5-250ml/hr - Fixed Female LL for Tube of OD: 4.1 mm - Needle free connector - Male LL Cap - Rotated male LL & Cap

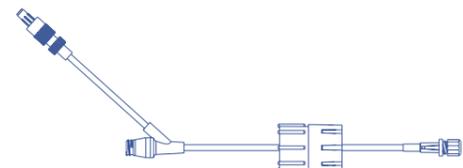
## Extension Line with Micro-Regulator and Y-Injection Port (45cm) 20020202



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 45cm - Flow Micro-Regulator (5-250ml/hr) - Latex Free Y-Injection Port - Male LL Double Vented with 20 Drops/ml & 15µm Fluid Disk Filter - Fixed Female LL for Tube of OD: 4.1mm - Female LL Cap - Male LL Cap

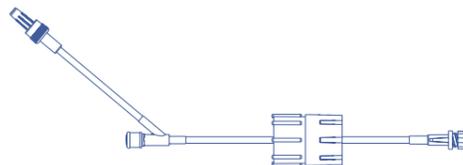
## Extension Set with Micro-Regulator and Y-Needle Free Connector (45cm) 20020203



### Product Description

PVC DEHP Free Tube - Flow Micro-Regulator 5-250ml/hr - Latex Free Y-Injection Port - Rotated Male LL for Tube of OD: 4.1mm - Needle Free Connector - Fixed Female LL for Tube of OD: 4.1mm - Female LL Cap - Male LL Cap

## Extension Line (55cm) 20020204



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 55cm - Flow Micro-Regulator 5-250ml/hr - Latex Free Y-Injection Port - Fixed Female LL for Tube of OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Female LL Cap - Male LL Cap

## Extension Line



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm - Safety Roller Clamp for Tube OD: 4.1mm - Fixed Female LL for Tube of OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1mm - Female LL Cap - Male LL Cap

Code	Length
20020205	140 cm
20020206	75 cm

## Extension Line with Micro-Regulator (45cm) 20020207



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 45cm - Flow Micro-Regulator 5-250ml/hr - Fixed Female LL for Tube of OD: 4.1mm -Female LL Cap - Male LL Cap

## FlowMate Type Code List

Description	Code No.
Extension Set with Micro-Regulator and Needle Free Connector 45 cm	20020201
Extension Set with Micro-Regulator and Y-Injection Port 45 cm	20020202
Extension Set with Micro-Regulator and Y-Needle Free Connector 45 cm	20020203
Extension Line 55 cm	20020204
Extension Line 140 cm	20020205
Extension Line 75 cm	20020206
Extension Set with Micro-Regulator 45 cm	20020207



# VITAPUR<sup>®</sup> with Filter

## IV Infusion Filter 0.2µm Simple

20020301



### Product Description

PVC DEHP Free Tube - In-line filter 0.2 µm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap - Fixed Female LL for Tube of OD: 4.1mm - Female LL Cap

## IV Infusion Filter 0.2µm

20020302



### Product Description

PVC DEHP Free Tube - In-line filter 0.2 µm - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap - Fixed Female LL for Tube of OD: 4.1mm - Female LL Cap

## IV Infusion Filter 1.2µm Light Proof

20020303



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L: 5cm - Fixed Male LL with Check Valve for Tube of OD : 4.1mm - In line Filter 1.2µm - For Tube of OD: 4.1mm , ID: 3mm - Fixed Male LL for Tube of OD : 4.1mm - PVC DEHP Free Tube OD: 4.1mm - ID: 3mm - L: 15cm

## VitaPur Type Code List

Description	Code No.
IV Infusion Filter 0.2µm Simple	20020301
IV Infusion Filter 0.2µm	20020302
IV Infusion Filter 1.2µm Light Proof	20020303



# FLOWGUARD<sup>®</sup> with Needle Free Connector

## FlowGuard Extension Line with Needle Free Port 20cm

20020401

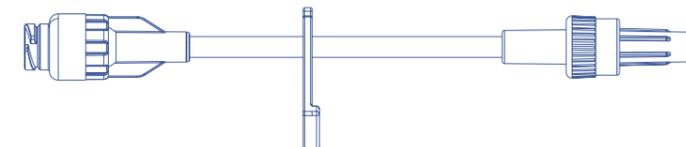


### Product Description

PVC DEHP Free Tube - Pinch Clamp for Tube OD: 4.1mm - Fixed Female LL for Tube of OD: 4.1mm - Fixed Male LL for Tube of OD: 4.1 - L: 20cm - Needle Free Connector - Male LL Cap

## FlowGuard Extension Line with Needle Free Port 20cm

20020402

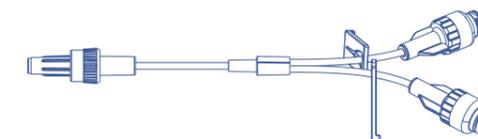


### Product Description

PVC DEHP Free Tube OD: 2mm, ID: 1mm, L: 10cm - Slide Clamp - Fixed Male LL for Tube of OD: 2 mm - Needle Free Connector - Male LL Cap

## Smallbore Y-Extension Set with Needle Free Standard

20020403

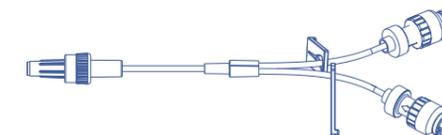


### Product Description

PVC DEHP Free Tube OD: 2 mm, ID: 1 mm - Slide Clamp for Tube OD: 22mm to OD: 4.1mm - Fixed Male LL for Tube of OD : 2mm - Male LL Cap Vented with Filter - Needle Free Neutral Connector - Y Parallel Connector

## Smallbore Y-Extension Set with Needle Free Standard and Check Valve

20020404

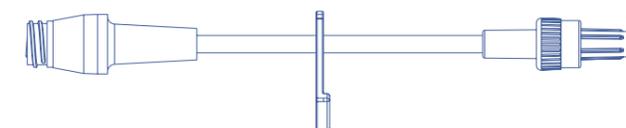


### Product Description

PVC DEHP Free Tube OD: 2 mm, ID: 1 mm - Slide Clamp for Tube OD: 22mm to OD: 4.1mm - Fixed Male LL for Tube of OD: 2mm - Male LL Cap Vented with Filter - Needle Free Neutral Connector - Y Parallel Connector - Check Valve Female LL

## Smallbore Extension Set with Needle Free Positive

20020405

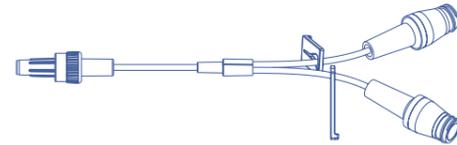


### Product Description

PVC DEHP Free Tube - Slide Clamp for Tube OD : 4.1mm - Fixed Male LL for Tube of OD : 4.1mm, L: 10cm - Male LL Cap Vented with Filter - Needle Free Y Connector

## Smallbore Extension Set with 2 Needle Free Positive

20020406

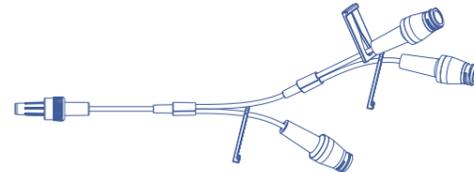


## Product Description

PVC DEHP Free Tube OD: 2mm, ID: 1mm - Slide Clamp for Tube OD: 22mm to OD: 4.1mm - Fixed Male LL for Tube of OD: 2mm - Male LL Cap Vented with Filter - Needle Free Positive connector - Y Parallel Connector

## Smallbore Extension Set with 3 Needle Free Positive

20020407

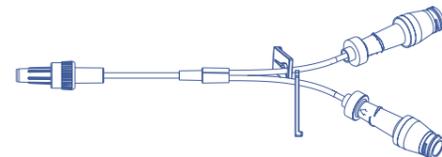


## Product Description

PVC DEHP Free Tube OD: 2mm, ID: 1mm - Slide Clamp for Tube OD: 22mm to OD: 4.1mm - Fixed Male LL for Tube of OD: 2mm - Male LL Cap Vented with Filter - Needle Free Positive Connector - Y Parallel Connector

## Smallbore Extension Set with 2 Needle Free Positive and 2 Check Valve

20020408

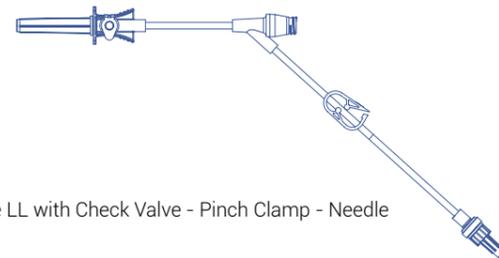


## Product Description

PVC DEHP Free Tube OD: 2mm, ID: 1mm - Slide Clamp for Tube OD: 22mm to OD: 4.1mm - Fixed Male LL for Tube of OD: 2mm - Male LL Cap Vented with Filter - Needle Free Positive Connector - Y Parallel Connector - Check Valve Female LL

## Extension Line with Spike and Needle Free + Check Valve (Cyto)

20020409

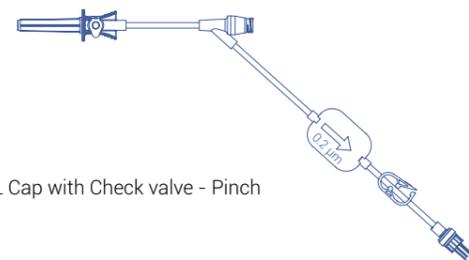


## Product Description

Vented Spike with Air filter & Cap - Male LL Cap Vented with Filter - Fixed Male LL with Check Valve - Pinch Clamp - Needle Free Y-Connector.

## Extension Line with Spike and Needle Free + Inline Filter + Check Valve (Cyto)

20020410



## Product Description

Vented Spike with Air Filter & Cap - Male LL Cap Vented with Filter - Fixed Male LL Cap with Check valve - Pinch Clamp - Needle Free Y-Connector - In-line Filter 0.2µm.

## FlowGuard Code List

Description	Code No.
FlowGuard Extension Line with Needle Free Port 20cm	20020401
Smallbore Extension Set with Needle Free Standard	20020402
Smallbore Y-Extension Set with Needle Free Standard	20020403
Smallbore Y-Extension Set with Needle Free Standard and Check Valve	20020404
Smallbore Extension Set with Needle Free Positive	20020405
Smallbore Extension Set with 2 Needle Free Positive	20020406
Smallbore Extension Set with 3 Needle Free Positive	20020407
Smallbore Extension Set with 2 Needle Free Positive and 2 Check Valve	20020408
Extension Line with Spike and Needle Free + Check Valve (Cyto)	20020409
Extension Line with Spike and Needle Free + Inline Filter + Check Valve (Cyto)	20020410



# Extension Lines with Stopcock

## IV High Flow 3-Way Stopcock with Extension Line (15cm) 20020501



### Product Description

PVC DEHP Free Tube OD: 5.5mm, ID: 3.5mm, L : 15cm - High Flow 3 Way Valve with 2 Female End for Tube OD: 5.5mm, ID: 3.5mm - Rotated Male LL for Tube of OD: 5.5mm - Male LL Cap Vented with Filter -Female LL Cap

## IV Extension Line with 3-way Stopcock



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm - 3 Way Stopcock with 2 Female End for Tube OD: 4.1mm, ID: 3mm - Female LL Cap - Fixed Male LL for Tube of OD: 4.1mm - Male LL Cap Vented with Filter

Code	Length
20020502	15 cm
20020503	25 cm
20020504	50 cm
20020505	75 cm
20020506	100 cm

## IV Extension Line with 3-Way Stopcock with Needle Free 15 cm (Triflow C) 20020507

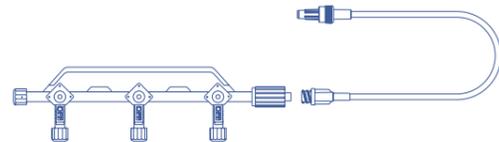


### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm, L:15cm - 3 Way Stopcock with Female End for Tube OD: 4.1mm, ID: 3mm - Female LL Cap - Fixed Male LL for Tube of OD : 4.1mm - Male LL Cap Vented with Filter - Needle Free Connector

Code	Length
20020507	15 cm
20020508	25 cm
20020509	50 cm
20020510	75 cm
20020511	100 cm

## IV Extension Line with Manifold 20020512



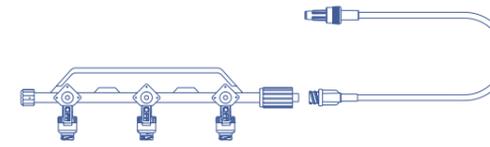
### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm - Fixed Female LL - Fixed Male LL - Manifold - Male LL Cap Vented Cap - Female LL Cap

Code	Length
20020512	25 cm
20020513	50cm
20020514	75 cm
20020515	100 cm
20020516	150 cm
20020517	200 cm

## IV Extension Line with Manifold + Needle Free

20020518



### Product Description

PVC DEHP Free Tube OD: 4.1mm, ID: 3mm - Fixed Female LL - Fixed Male LL - Manifold - Male LL Cap - Female LL Cap - Needle Free Connector Male to Female

Code	Length
20020518	25 cm
20020519	50cm
20020520	75 cm
20020521	100 cm
20020522	150 cm
20020523	200 cm

# Extension Lines with Stopcock Code List

Description	Code No.
IV High Flow 3-Way Stopcock with Extension Line 15cm	20020501
IV Extension Line with 3-Way Stopcock 15cm	20020502
IV Extension Line with 3-Way Stopcock 25cm	20020503
IV Extension Line with 3-Way Stopcock 50cm	20020504
IV Extension Line with 3-Way Stopcock 75cm	20020505
IV Extension Line with 3-Way Stopcock 100cm	20020506
IV Extension Line with 3-Way Stopcock with Needle Free 15cm (Triflow C)	20020507
IV Extension Line with 3-Way Stopcock with Needle Free 25cm (Triflow C)	20020508
IV Extension Line with 3-Way Stopcock with Needle Free 50cm (Triflow C)	20020509
IV Extension Line with 3-Way Stopcock with Needle Free 75cm (Triflow C)	20020510
IV Extension Line with 3-Way Stopcock with Needle Free 100cm (Triflow C)	20020511
IV Extension Line with Manifold 25cm	20020512
IV Extension Line with Manifold 50cm	20020513
IV Extension Line with Manifold 75cm	20020514
IV Extension Line with Manifold 100cm	20020515
IV Extension Line with Manifold 150cm	20020516
IV Extension Line with Manifold 200cm	20020517
IV Extension Line with Manifold + Needle Free 25cm	20020518
IV Extension Line with Manifold + Needle Free 50cm	20020519
IV Extension Line with Manifold + Needle Free 75cm	20020520
IV Extension Line with Manifold + Needle Free 100cm	20020521
IV Extension Line with Manifold + Needle Free 150cm	20020522
IV Extension Line with Manifold + Needle Free 200cm	20020523

# Accessories



# Accessories

Male to Female Connector with Check Valve 20030101



Double Spike 20030201



Mini Spike with 1.2um Air Filter - 5um Solution Filter



Code	Color
20030202	Blue
20030203	Green
20030204	Red

Needle Free Connector



Code	Description
20030301	FlowGuard +
20030401	FlowGuard Neu
20030501	FlowGuard -

Manifold 3 Port

20030602



Code	Description
20030601	2 Port
20030603	5 Port
20030701	with Needle Free and Prime Cap 3 Port
20030702	with Needle Free and Prime Cap 5 Port

Stopcock 3-Way Lipid Resistance 20030801



Stopcock 3-Way with Needle Free (Triflow C) 20030901



Combi Stopper Red

20030601

SwabCap

20030602



## Summary of Accessories Codes

Description	Code No.
Male to Female Connector with Check Valve	20030101
Double Spike	20030201
Mini Spike with 1.2um Air Filter - 5um Solution Filter - Color: Blue	20030202
Mini Spike with 1.2um Air Filter - Color: Green	20030203
Mini Spike with 0.2um Air Filter - 5um Solution Filter- Color: Red	20030204
Needle Free Connector FlowGuard +	20030301
Needle Free Connector FlowGuard Neu	20030401
Needle Free Connector FlowGuard -	20030501
Manifold 2 Port	20030601
Manifold 3 Port	20030602
Manifold 5 Port	20030603
Manifold with Needle Free and Prime Cap 3 Port	20030701
Manifold with Needle Free and Prime Cap 5 Port	20030702
Stopcock 3-Way Lipid Resistance	20030801
Stopcock 3-Way with Needle Free (Triflow C)	20030901
Combi Stopper Color: Red	20031001
Combi Stopper Color: Blue	20031002
SwabCap	20031101

Accessories	Description
Stopcocks	Stopcocks are used to regulate the flow of fluids or medications through medical tubing or catheters. They consist of a small valve that can be turned to control the flow of fluid through the device.
Safety Spike	The spike should be able to pierce the bottle stopper of the infusion bag or bottle, and it should not produce debris.
Mini-Spikes	Sharp devices that are used to pierce the stoppers of vials and other containers of medication. It is used to withdraw medication from vials and to administer it from IV lines.
Needle-free	Needle-free connectors are devices that allow quick access to the infusion line, ensuring a secure connection. It found in positive, negative and neutral pressure.
Manifold	Manifold sets focus on safe and accurate infusion therapy delivery with minimal priming volumes and high flow rates. It has different types according to the number of ports ( 2, 3 & 5 )
Combi-Stopppers	Combi-Stopppers are used to close a luer or luer lock access on other devices.
SwabCap	Acts as a physical barrier to contamination between line accesses and also serves as a disinfecting cleaner for use prior to line access



# Central Venous Catheter

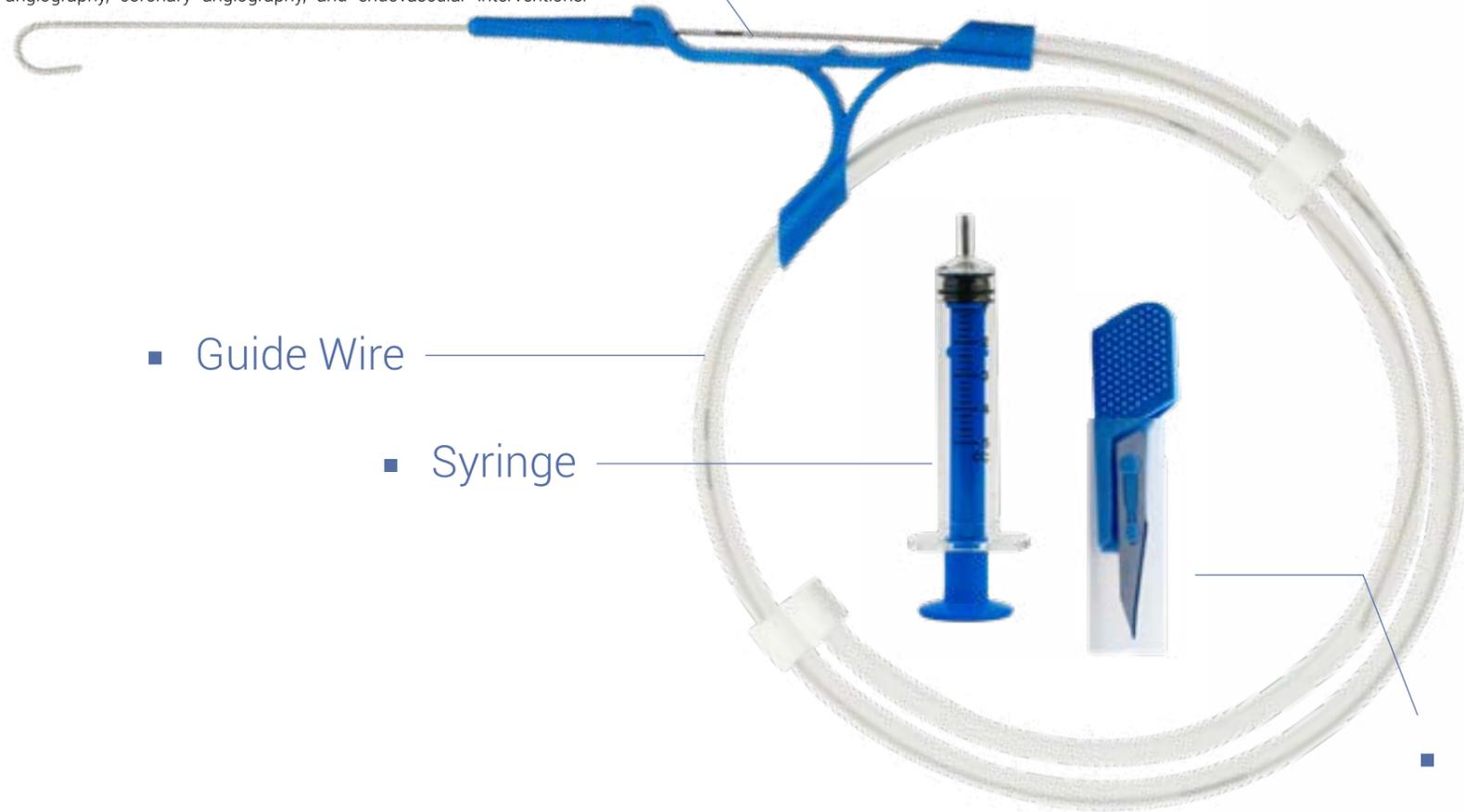


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# Central Venous Catheter

- Nitinol Guide Wire with Flexiable J-Type

\*Nitinol guide wires are known for their flexibility, durability, and kink resistance. These properties make them ideal for a variety of minimally invasive procedures, such as angiography, coronary angiography, and endovascular interventions.



- ECG Cable

- Needle-Free Valve

- Slide Clamp

- Scalpel

- Triangle Hub

- Dilator

## Lumen Variants of PROcath® Catheters



- Lumen Variants

- Catheter

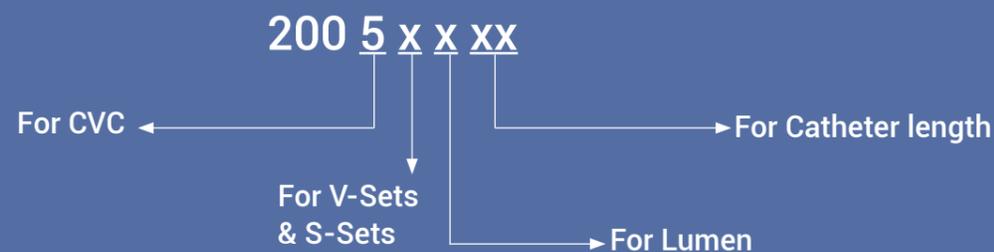
- Movable Fixation Clips

- Soft Tip

Name	Description
Catheter	Reduces the risk of mixing incompatible drugs
Lumen Variants	Available in different ports; single, double, triple, quad
Triangle Hub	Information marked clearly on the hubs
Movable Fixation Clip	The device consists of an adhesive dressing and a clamp part to reduce catheter migration and pull out.
Soft Tip	Minimizes the risk of vessel trauma

- A central venous catheter, also called a central line or CVC, is a device that helps to receive treatments for various medical conditions.
- It's made of a long, thin, flexible Tube that enters body through a vein. The Tube travels through one or more veins until the tip reaches the large vein that empties into heart (vena cava).
- There is an outer surface of the skin is called hub, and the underneath part in skin is called reservoir. The hub or reservoir is the access point for your treatment.
- A CVC allows healthcare providers to access patient's bloodstream easily, reducing the need for many needle sticks into vein. So, a CVC is ideal for people who need long-term medications, fluids, blood draws or blood transfusions. including total parenteral nutrition administration, dialysis, plasmapheresis, medication administration, and hemodynamic monitoring, and to facilitate further complex interventions such as transvenous pacemaker placement.

## CVC Coding System



## PROCATH® Standard Sets

### Single Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Dilator	Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)		
Single S 415	4	15	18	23	0.300	50	0.63	5	20050101
Single S 420	4	20	18	29	0.315	50	0.63	5	20050102
Single S 515	5	15	16	60	0.370	50	0.89	6	20050103
Single S 520	5	20	16	52	0.415	50	0.89	6	20050104
Single S 530	5	30	16	40	0.510	70	0.89	6	20050105
Single S 615	6	15	14	90	0.455	50	0.89	8	20050106
Single S 620	6	20	14	80	0.535	50	0.89	8	20050107
Single S 630	6	30	14	75	0.690	70	0.89	8	20050108

### Accessories

1. Raulerson Syringe: 5ml
2. Scalpel: 1x
3. Luer Locks: 1x
4. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 20 - 18

### Double Lumen (S-Sets)

Name	Catheter					Nitinol Guide-wire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Double S 715	7	15	16/16	60/50	0.400/0.335	50	0.89	20050201
Double S 720	7	20	16/16	55/45	0.455/0.380	50	0.89	20050202
Double S 730	7	30	16/16	52/37	0.570/0.470	70	0.89	20050203

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 8 Fr
3. Scalpel: 1x
4. Luer Locks: 2x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 18

\*NOTE: Other Varities (V-Sets) 20051xxx are available upon request

## Triple Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Triple S 715	7	15	16/18/18	50/28/28	0.340/0.205/0.205	50	0.89	20050301
Triple S 720	7	20	16/18/18	46/22/22	0.380/0.215/0.205	50	0.89	20050302
Triple S 730	7	30	16/18/18	38/18/18	0.460/0.240/0.230	70	0.89	20050303

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 8 Fr
3. Scalpel: 1x
4. Luer Locks: 3x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 18

## Quad Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Quad S 855	8.5	15	14/18/18/16	50/20/20/50	0.435/0.205/0.260/0.255	50	0.89	20050401
Quad S 852	8.5	20	14/18/18/16	40/15/15/40	0.500/0.215/0.280/0.295	50	0.89	20050402
Quad S 853	8.5	30	14/18/18/16	35/10/10/35	0.635/0.240/0.325/0.380	70	0.89	20050403

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 8 Fr
3. Scalpel: 1x
4. Luer Locks: 4x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 18

**S**

Seldinger technique (thin-wall needle technique) is commonly used procedure to obtain safe access to central vein. The desired vessel is punctured with a sharp hollow needle, syringe is detached and guidewire is advanced through the lumen of the needle, and then the needle is withdrawn.

**V**

Valve needle. A central venous catheter (CVC), also known as a central line (c-line), central venous line, or central venous access catheter, is a catheter placed into a large vein. It is a form of venous access.

## PROCATH<sup>®</sup> ECO Sets

## Single Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Dilator	Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)		
Single S 415	4	15	18	23	0.300	50	0.63	5	20052101
Single S 420	4	20	18	29	0.315	50	0.63	5	20052102
Single S 515	5	15	16	60	0.370	50	0.89	6	20052103
Single S 520	5	20	16	52	0.415	50	0.89	6	20052104
Single S 530	5	30	16	40	0.510	70	0.89	6	20052105
Single S 615	6	15	14	90	0.455	50	0.89	8	20052106
Single S 620	6	20	14	80	0.535	50	0.89	8	20052107
Single S 630	6	30	14	75	0.690	70	0.89	8	20052108

### Accessories

1. Raulerson Syringe: 5ml
2. Scalpel: 1x
3. Luer Locks: 1x
4. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 20 - 18

## Double Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Double S 715	7	15	16/16	60/50	0.400/0.335	50	0.89	20052201
Double S 720	7	20	16/16	55/45	0.455/0.380	50	0.89	20052202
Double S 730	7	30	16/16	52/37	0.570/0.470	70	0.89	20052203

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 8 Fr
3. Scalpel: 1x
4. Luer Locks: 2x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 18

## Triple Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Triple S 715	7	15	16/18/18	50/28/28	0.340/0.205/0.205	50	0.89	20052301
Triple S 720	7	20	16/18/18	46/22/22	0.380/0.215/0.205	50	0.89	20052302
Triple S 730	7	30	16/18/18	38/18/18	0.460/0.240/0.230	70	0.89	20052303

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 8 Fr
3. Scalpel: 1x
4. Luer Locks: 3x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 18

## Quad Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Quad S 855	8.5	15	14/18/18/16	50/20/20/50	0.435/0.205/0.260/0.255	50	0.89	20052401
Quad S 852	8.5	20	14/18/18/16	40/15/15/40	0.500/0.215/0.280/0.295	50	0.89	20052402
Quad S 853	8.5	30	14/18/18/16	35/10/10/35	0.635/0.240/0.325/0.380	70	0.89	20052403

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 8 Fr
3. Scalpel: 1x
4. Luer Locks: 4x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: S
2. Gauge: 18

- CVCs are often used for patients who require long-term IV medications or frequent blood draws, such as those receiving chemotherapy, long-term antibiotic therapy, or parenteral nutrition. They may also be used in critical care settings for monitoring hemodynamic parameters, administering medications and providing fluids.

- CVC insertion is typically performed by a trained healthcare provider using sterile techniques to minimize the risk of infection. Complications of CVCs may include infection, clotting, bleeding, or damage to surrounding tissues or organs.

## PROCATH® Safety Sets

## Single Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Dilator	Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)		
Single SS 415	4	15	18	23	0.300	50	0.63	5	20053101
Single SS 420	4	20	18	29	0.315	50	0.63	5	20053102
Single SS 515	5	15	16	60	0.370	50	0.89	6	20053103
Single SS 520	5	20	16	52	0.415	50	0.89	6	20053104
Single SS 530	5	30	16	40	0.510	70	0.89	6	20053105
Single SS 615	6	15	14	90	0.455	50	0.89	8	20053106
Single SS 620	6	20	14	80	0.535	50	0.89	8	20053107
Single SS 630	6	30	14	75	0.690	70	0.89	8	20053108

### Accessories

1. Regular Syringe: 5ml
2. Safety Scalpel #11: 1x
3. Luer Locks: 1x
4. Connection ECG Cable: 1x

### Introducer Needle

1. Type: Safety-S
2. Gauge: 20 - 18

## Double Lumen (S-Sets)

Name	Catheter					Nitinol Guide-wire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Double SS 715	7	15	16/16	60/50	0.400/0.335	50	0.89	20053201
Double SS 720	7	20	16/16	55/45	0.455/0.380	50	0.89	20053202
Double SS 730	7	30	16/16	52/37	0.570/0.470	70	0.89	20053203

### Accessories

1. Regular Syringe: 5ml
2. Dilator: 8 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 2x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: Safety-S
2. Gauge: 18

\*NOTE: Other Varieties (V-Sets) 20054xxx are available upon request

## Triple Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Triple SS 715	7	15	16/18/18	50/28/28	0.340/0.205/0.205	50	0.89	20053301
Triple SS 720	7	20	16/18/18	46/22/22	0.380/0.215/0.205	50	0.89	20053302
Triple SS 730	7	30	16/18/18	38/18/18	0.460/0.240/0.230	70	0.89	20053303

### Accessories

1. Regular Syringe: 5ml
2. Dilator: 8 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 3x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: Safety-S
2. Gauge: 18

## Quad Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M1/M2/M3/P	Min. Flow Rate (ml) D/M1/M2/M3/P	Filling Volume (ml) D/M1/M2/M3/P	Length (cm)	$\Phi$ (mm)	
Quad SS 855	8.5	15	14/18/18/16	50/20/20/50	0.435/0.205/0.260/0.255	50	0.89	20053401
Quad SS 852	8.5	20	14/18/18/16	40/15/15/40	0.500/0.215/0.280/0.295	50	0.89	20053402
Quad SS 853	8.5	30	14/18/18/16	35/10/10/35	0.635/0.240/.325/0.380	70	0.89	20053403

### Accessories

1. Regular Syringe: 5ml
2. Dilator: 9 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 4x
5. Connection ECG Cable: 1x

### Introducer Needle

1. Type: Safety-S
2. Gauge: 18



## PROCATH<sup>®</sup> Pediatric Sets

### Single Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M/P	Min. Flow Rate (ml) D/M/P	Filling Volume (ml) D/M/P	Length (cm)	$\Phi$ (mm)	
Single PS 310	3	10	22	15	0.100	25	0.46	20055101

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 4 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 1x

### Introducer Needle

1. Type: S
2. Gauge: 21

## Double Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Gauge) D/M/P	Min. Flow Rate (ml) D/M/P	Filling Volume (ml) D/M/P	Length (cm)	$\Phi$ (mm)	
Double PS 408	4	8	22/22	18/18	0.235/0.205	50	0.46	20055201
Double PS 413	4	13	22/22	10/10	0.255/0.225	50	0.46	20055202
Double PS 420	4	20	22/22	9/9	0.275/0.250	50	0.46	20055203
Double PS 508	5	8	18/20	30/15	0.250/0.205	50	0.46	20055204
Double PS 513	5	13	18/20	22/11	0.270/0.225	50	0.46	20055205
Double PS 520	5	20	18/20	18/9	0.300/0.250	50	0.46	20055206

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 5 - 6 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 2x

### Introducer Needle

1. Type: S
2. Gauge: 21

\*NOTE: Other Varieties (V-Sets) 20056xxx are available upon request

## Triple Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Guage) D/M/P	Min. Flow Rate (ml) D/M/P	Filling Volume (ml) D/M/P	Length (cm)	$\Phi$ (mm)	
Triple PS 715	5	8	20/22/22	30/15/15	0.235/0.185/0.180	50	0.46	20055301
Triple PS 720	5	13	20/22/22	29/10/10	0.260/0.200/0.195	50	0.46	20055302
Triple PS 730	5	20	20/22/22	18/6/6	0.290/0.215/0.210	70	0.46	20055303

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 6 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 3x

### Introducer Needle

1. Type: S
2. Gauge: 21



## PROCATH® High Flow Sets

### Double Lumen (S-Sets)

Name	Catheter					Nitinol Guide wire		Dilator	Code
	Siize	Length	Lumen $\Phi$ (Guage) D/M/P	Min. Flow Rate (ml) D/M/P	Filling Volume (ml) D/M/P	Length (cm)	$\Phi$ (mm)		
Double HF S 715	7	15	14/18	105/42	0.235/0.205	50	0.89	8	20058201
Double HF S 720	7	20	14/18	100/27	0.255/0.225	50	0.89	8	20058202
Double HF S 852	8.5	20	13/13	95/120	0.275/0.250	50	0.89	9	20058203
Double HF S 1215	12	15	11/11	260/260	0.250/0.205	50	0.89	12	20058204
Double HF S 1220	12	20	11/11	230/230	0.270/0.225	50	0.89	12	20058205

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 5 - 6 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 2x

### Introducer Needle

1. Type: S
2. Gauge: 18

### Triple Lumen (S-Sets)

Name	Catheter					Nitinol Guidewire		Code
	Siize	Length	Lumen $\Phi$ (Guage) D/M/P	Min. Flow Rate (ml) D/M/P	Filling Volume (ml) D/M/P	Length (cm)	$\Phi$ (mm)	
Triple HF S 1215	12	15	16/12/12	65/225/225	0.415/1.260/1.170	50	0.89	20058301
Triple HF S 1220	12	20	16/12/12	55/165/165	0.470/1.410/1.400	50	0.89	20058302

### Accessories

1. Raulerson Syringe: 5ml
2. Dilator: 12 Fr
3. Safety Scalpel #11: 1x
4. Luer Locks: 3x

### Introducer Needle

1. Type: S
2. Gauge: 18

\*NOTE: Other Varities (V-Sets) 20059xxx are available upon request

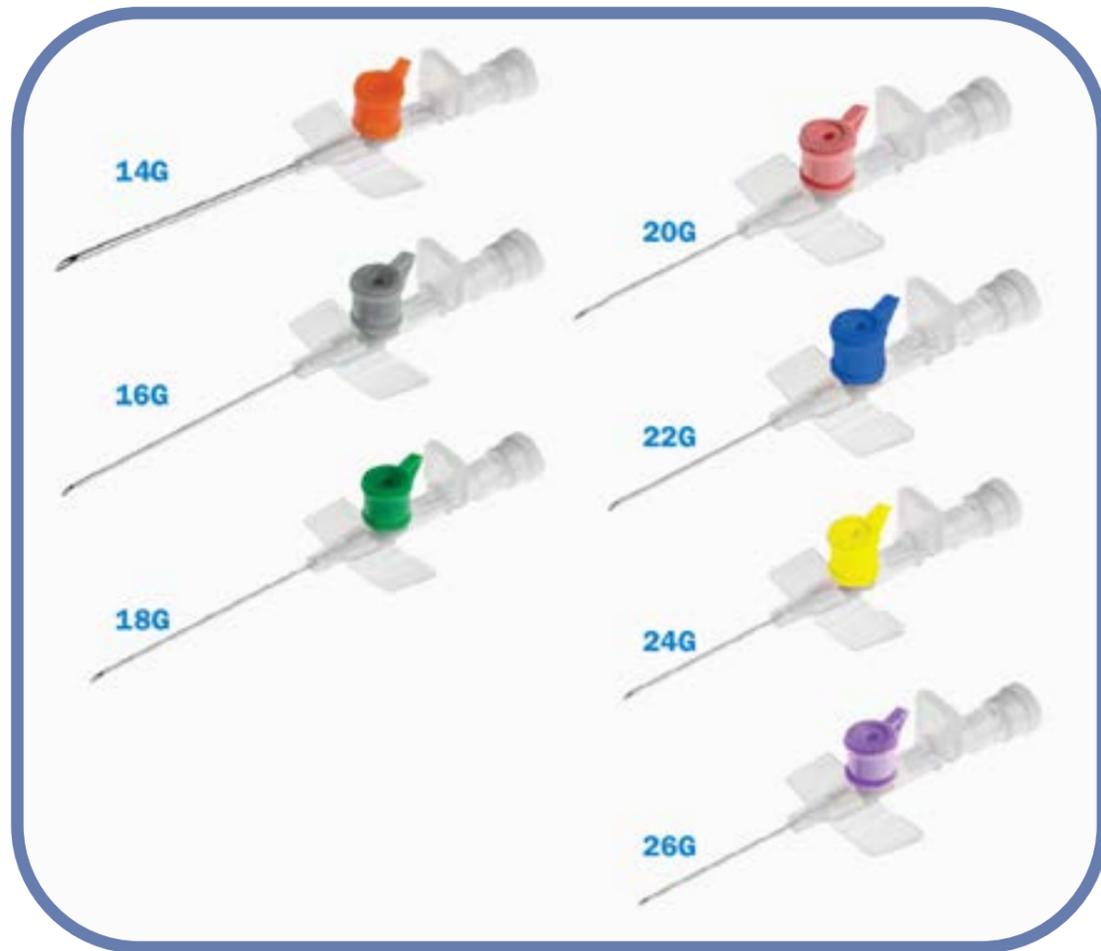
# IV Cannulas



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# IV Cannulas

- IV cannulas, also known as IV catheters, are small, flexible Tubes that are inserted into a vein for the purpose of administering medication, fluids, or blood products directly into the bloodstream.
- IV cannulas are available in different gauges, which refer to the diameter of the catheter. A higher gauge number indicates a smaller diameter, with 18-24 gauge being the most common sizes used in clinical settings.
- The choice of gauge depends on the intended use of the IV cannula, the size and condition of the patient's veins, and the type of fluid or medication being administered.



## Standard IV Cannula

### PRIMEFLOW<sup>®</sup> without Port / without Wings

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20040101	20040201	26	19	0.6	15	●
20040102	20040202	24	19	0.7	20	●
20040103	20040203	22	25	0.9	33	●
20040104	20040204	20	32	1.1	60	●
20040105	20040205	18	45	1.3	90	●
20040106	20040206	17	45	1.5	140	●
20040107	20040207	16	45	1.7	200	●
20040108	20040208	14	45	2.1	300	●



### PRIMEFLOW<sup>®</sup> with Wings

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20040301	20040401	26	19	0.6	15	●
20040302	20040402	24	19	0.7	20	●
20040303	20040403	22	25	0.9	33	●
20040304	20040404	20	32	1.1	60	●
20040305	20040405	18	45	1.3	90	●
20040306	20040406	17	45	1.5	140	●
20040307	20040407	16	45	1.7	200	●
20040308	20040408	14	45	2.1	300	●



### PRIMEFLOW<sup>®</sup> with Injection Port and Wings

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20040501	20040601	26	19	0.6	15	●
20040502	20040602	24	19	0.7	20	●
20040503	20040603	22	25	0.9	33	●
20040504	20040604	20	32	1.1	60	●
20040505	20040605	18	45	1.3	90	●
20040506	20040606	17	45	1.5	140	●
20040507	20040607	16	45	1.7	200	●
20040508	20040608	14	45	2.1	300	●



## Safety IV Cannula

### PROGUARD<sup>®</sup> Safety without Port and Wings

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20040701	20040801	26	19	0.6	15	●
20040702	20040802	24	19	0.7	20	●
20040703	20040803	22	25	0.9	33	●
20040704	20040804	20	32	1.1	60	●
20040705	20040805	18	45	1.3	90	●
20040706	20040806	17	45	1.5	140	●
20040707	20040807	16	45	1.7	200	●
20040708	20040808	14	45	2.1	300	●



## Safety Closed IV Cannula

### PROGUARD+<sup>®</sup> Safety with Filter and Wing

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20041301	20041401	26	19	0.6	15	●
20041302	20041402	24	19	0.7	20	●
20041303	20041403	22	25	0.9	33	●
20041304	20041404	20	32	1.1	60	●
20041305	20041405	18	45	1.3	90	●
20041306	20041406	17	45	1.5	140	●
20041307	20041407	16	45	1.7	200	●
20041308	20041408	14	45	2.1	300	●



### PROGUARD<sup>®</sup> Safety with Wings

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20040901	20041001	26	19	0.6	15	●
20040902	20041002	24	19	0.7	20	●
20040903	20041003	22	25	0.9	33	●
20040904	20041004	20	32	1.1	60	●
20040905	20041005	18	45	1.3	90	●
20040906	20041006	17	45	1.5	140	●
20040907	20041007	16	45	1.7	200	●
20040908	20041008	14	45	2.1	300	●



## Standard Neonate Cannula

### PRIMEFLOW-NEO<sup>®</sup> Safety with Wing Without Port

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20041501	20041601	26	19	0.6	15	●
20041502	20041602	24	19	0.7	20	●



### PRIMEFLOW-NEO<sup>®</sup> Safety with Wing and Wing Cap without Port

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20041701	20041801	26	19	0.6	15	●
20041702	20041802	24	19	0.7	20	●



### PROGUARD<sup>®</sup> Safety with Injection Port and Wings

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20041101	20041201	26	19	0.6	15	●
20041102	20041202	24	19	0.7	20	●
20041103	20041203	22	25	0.9	33	●
20041104	20041204	20	32	1.1	60	●
20041105	20041205	18	45	1.3	90	●
20041106	20041206	17	45	1.5	140	●
20041107	20041207	16	45	1.7	200	●
20041108	20041208	14	45	2.1	300	●



## Standard with Integrated 3 Way

### PROGUARD+<sup>®</sup> Standard with Integrated 3 Way Stopcock

Code - FEP	Code - PUR	Gauge	Length (MM)	Catheter Φ(MM)	Flow rate (ML/ Min)	CC
20041901	20042001	24	19	0.7	20	●
20041902	20042002	22	25	0.9	33	●
20041903	20042003	20	32	1.1	60	●
20041904	20042004	18	45	1.3	90	●



# Syringes



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# Syringes

- Syringes are medical devices used for the administration of medications or the withdrawal of body fluids. They consist of a cylindrical barrel, a plunger, and a needle or a tip.
- The barrel is marked with volume measurements in milliliters (ml) or cubic centimeters (cc), which allows for accurate measurement of the volume of medication being administered or withdrawn.
- Syringes are also used for the withdrawal of body fluids, such as blood or cerebrospinal fluid, for diagnostic or therapeutic purposes.



Luer Slip



Luer Lock

## Standard 3-Pcs Syringe

### Luer Slip without Needle

Code	Size	Core	Graduation
20060101	1 ML	Centric	0.01 ml
20060102	3 ML	Centric	0.1 ml
20060203	5 ML	Eccentric	0.2 ml
20060204	10 ML	Eccentric	0.5 ml
20060205	20 ML	Eccentric	1 ml
20060206	30 ML	Eccentric	1 ml
20060207	50 ML	Eccentric	1 ml

### Luer Lock without Needle

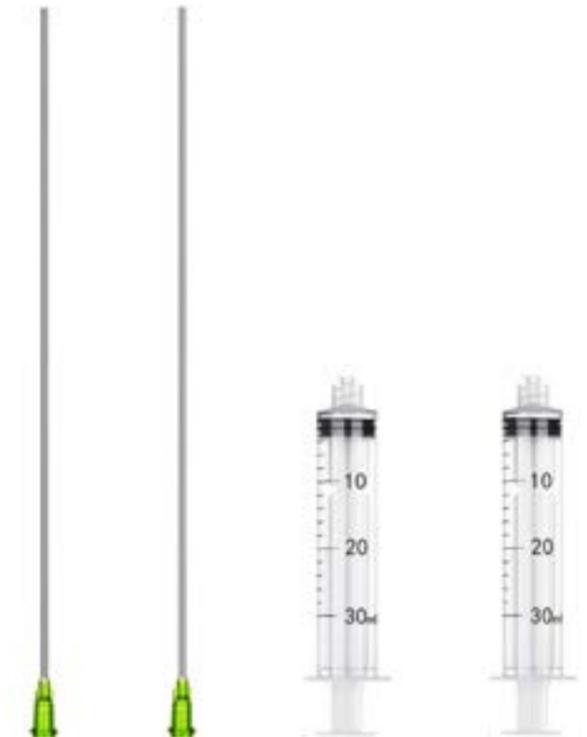
Code	Size	Core	Graduation
20060301	1 ML	Centric	0.01 ml
20060302	3 ML	Centric	0.1 ml
20060303	5 ML	Centric	0.2 ml
20060304	10 ML	Centric	0.5 ml
20060305	20 ML	Centric	1 ml
20060306	30 ML	Centric	1 ml
20060307	50 ML	Centric	1 ml

### Luer Slip with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20060401	1 ML	Centric	0.01 ml	25 G	8mm
20060402	3 ML	Centric	0.1 ml	23 G	10mm
20060503	5 ML	Eccentric	0.2 ml	22 G	15mm
20060504	10 ML	Eccentric	0.5 ml	21 G	15mm
20060505	20 ML	Eccentric	1 ml	21 G	15mm

### Luer Lock with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20060601	1 ML	Centric	0.01 ml	25 G	8mm
20060602	3 ML	Centric	0.1 ml	23 G	10mm
20060603	5 ML	Centric	0.2 ml	22 G	15mm
20060604	10 ML	Centric	0.5 ml	21 G	15mm
20060605	20 ML	Centric	1 ml	21 G	15mm



## Standard 2-Pcs Syringe

### Luer Slip without Needle

Code	Size	Core	Graduation
20061101	1 ML	Centric	0.01 ml
20061202	3 ML	Eccentric	0.1 ml
20061203	5 ML	Eccentric	0.2 ml
20061204	10 ML	Eccentric	0.5 ml
20061205	20 ML	Eccentric	1 ml

### Luer Lock without Needle

Code	Size	Core	Graduation
20061301	1 ML	Centric	0.01 ml
20061302	3 ML	Centric	0.1 ml
20061303	5 ML	Centric	0.2 ml
20061304	10 ML	Centric	0.5 ml
20061305	20 ML	Centric	1 ml

### Luer Slip with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20061401	1 ML	Centric	0.01 ml	25 G	8mm
20061402	3 ML	Eccentric	0.1 ml	23 G	10mm
20061403	5 ML	Eccentric	0.2 ml	22 G	15mm
20061404	10 ML	Eccentric	0.5 ml	21 G	15mm
20061405	20 ML	Eccentric	1 ml	21 G	15mm

### Luer Lock with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20061601	1 ML	Centric	0.01 ml	25 G	8mm
20061602	3 ML	Centric	0.1 ml	23 G	10mm
20061603	5 ML	Eccentric	0.2 ml	22 G	15mm
20061604	10 ML	Eccentric	0.5 ml	21 G	15mm
20061605	20 ML	Eccentric	1 ml	21 G	15mm



## Safety 3-Pcs Syringe

### Luer Slip without Needle

Code	Size	Core	Graduation
20062101	1 ML	Centric	0.01 ml
20062102	3 ML	Centric	0.1 ml
20062103	5 ML	Eccentric	0.2 ml
20062104	10 ML	Eccentric	0.5 ml
20062105	20 ML	Eccentric	1 ml
20062106	30 ML	Eccentric	1 ml
20062107	50 ML	Eccentric	1 ml

### Luer Lock without Needle

Code	Size	Core	Graduation
20062301	1 ML	Centric	0.01 ml
20062302	3 ML	Centric	0.1 ml
20062303	5 ML	Centric	0.2 ml
20062304	10 ML	Centric	0.5 ml
20062305	20 ML	Centric	1 ml
20062306	30 ML	Centric	1 ml
20062307	50 ML	Centric	1 ml

### Luer Slip with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20062401	1 ML	Centric	0.01 ml	25 G	8mm
20062402	3 ML	Centric	0.1 ml	23 G	10mm
20062403	5 ML	Eccentric	0.2 ml	22 G	15mm
20062404	10 ML	Eccentric	0.5 ml	21 G	15mm
20062405	20 ML	Eccentric	1 ml	21 G	15mm

### Luer Lock with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20062601	1 ML	Centric	0.01 ml	25 G	8mm
20062602	3 ML	Centric	0.1 ml	23 G	10mm
20062603	5 ML	Centric	0.2 ml	22 G	15mm
20062604	10 ML	Centric	0.5 ml	21 G	15mm
20062605	20 ML	Centric	1 ml	21 G	15mm



## Safety 2-Pcs Syringe

### Luer Slip without Needle

Code	Size	Core	Graduation
20063101	1 ML	Centric	0.01 ml
20063102	3 ML	Eccentric	0.1 ml
20063103	5 ML	Eccentric	0.2 ml
20063104	10 ML	Eccentric	0.5 ml
20063105	20 ML	Eccentric	1 ml

### Luer Lock without Needle

Code	Size	Core	Graduation
20063301	1 ML	Centric	0.01 ml
20063302	3 ML	Centric	0.1 ml
20063303	5 ML	Centric	0.2 ml
20063304	10 ML	Centric	0.5 ml
20063305	20 ML	Centric	1 ml

### Luer Slip with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20063401	1 ML	Centric	0.01 ml	25 G	8mm
20063402	3 ML	Eccentric	0.1 ml	23 G	10mm
20063403	5 ML	Eccentric	0.2 ml	22 G	15mm
20063404	10 ML	Eccentric	0.5 ml	21 G	15mm
20063405	20 ML	Eccentric	1 ml	21 G	15mm

### Luer Lock with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20063601	1 ML	Centric	0.01 ml	25 G	8mm
20063602	3 ML	Centric	0.1 ml	23 G	10mm
20063603	5 ML	Eccentric	0.2 ml	22 G	15mm
20063604	10 ML	Eccentric	0.5 ml	21 G	15mm
20063605	20 ML	Eccentric	1 ml	21 G	15mm



## Standard 3-Pcs Syringe with Catheter Tip

### Catheter Tip

Code	Size	Core	Graduation
20064107	50 ML	Centric	1 ml
20064209	100 ML	Centric	2 ml



## Insulin Syringes

### Syring with Integrated Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20065201	1 ML	Centric	0.01 ml	30 G	8mm



### Luer Slip with Needle

Code	Size	Core	Graduation	Needle Gauge	Length
20065101	1 ML	Centric	0.01 ml	30 G	8mm

## 3-Pcs Enfit Enteral Syringes

### Luer Enfit

Code	Size	Core	Graduation
20066101	1 ML	Centric	0.01 ml
20066202	3 ML	Eccentric	0.1 ml
20066203	5 ML	Eccentric	0.1 ml
20066204	10 ML	Eccentric	0.1 ml
20066205	20 ML	Eccentric	1 ml
20066206	60 ML	Eccentric	1 ml



## Spectraline Syringes

### Syringe with Luer Lock

Code	Size	color	Graduation
20067101	10 ML	White	1 ml
20067102	10 ML	Blue	1 ml
20067103	10 ML	Green	1 ml
20067104	10 ML	Yellow	1 ml
20067105	10 ML	Red	1 ml
20067201	20 ML	White	1 ml
20067202	20 ML	Blue	1 ml
20067203	20 ML	Green	1 ml
20067204	20 ML	Yellow	1 ml
20067105	20 ML	Red	1 ml



# Site Care



# Fixation Dressing

## Non-Woven Cannula Fixation Dressing

Non-Woven cannula fixation dressing consists of soft non-woven fabric. It ensures that the cannula is properly fixed to the body.

### Features

1. Soft and elastic structure
2. Hypoallergenic
3. Sterile and single package
4. Air permeable



## Transparent Cannula Fixation Dressing

### Features

1. Waterproof
2. Soft and elastic structure
3. Hypoallergenic
4. Sterile and single package

Size (cm)	Code
4 x 6	60120207
6 x 7	60120208
7 x 9	60120209
8 x 6	60120210
8.5 x 10	60120211
9 x 12	60120212



## I.V. Advanced Securement Dressing

It is used for the fixation of catheters, such as indwelling needles, epidural catheters, central venous catheters, etc.

Size (cm)	Code
2 x 8	60120617

### Features

1. Fixed firmly
2. Reduced patient's pain
3. Convenient for clinical operation
4. Prevention of catheter detachment & movement



## PE Tape

- It is a kind of tape made of Polyethylene (PE) and medical hypoallergenic adhesive. Breathable with reliable adhesiveness, low sensitization, excellent compliance and no residue glue.
- It is used in surgical operation, for the fastening of dressing or catheter, in sports protection, & industrial packaging as well.

Size (cm x mm)	Code
1.25 x 5	60100310
2.5 x 5	60100311
5 x 5	60100312
7.5 x 5	60100313

1. Air-permeable, hypoallergenic
2. Easy to tear off making usage **very convenient** & comfortable.
3. Breathable, with reliable **adhesiveness and low sensitization**.
4. Made from **non-stretch polyethylene** film with high tensile strength.



# Silicone Tape

- Reduces pain & trauma before, at and after dressing change & has low potential for irritation,allergy.
- Does not adhere to the moist wound bed but only the dry skin.

Size (cm x mm)	Code
2.5 x 1.5	60100621
3.5 x 1.5	60100622
4 x 1.5	60100623
7.5 x 1.5	60100624
9.5 x 1.5	60100625
4 x 3	60100626



# Non-Woven Tape

Non-woven tape, also known as non-woven adhesive tape or non-woven medical tape, is a type of medical tape commonly used in healthcare settings for securing dressings, bandages, or other medical devices.

Size (cm x mm)	Code
1.25x5	60100205
2.5x5	60100206
5x5	60100207
10x5	60100208
7.5x5	60100209



# RESPIRATORY & ICU



# Aerosol & Oxygen Therapy



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# Aerosol & Oxygen Therapy

- Aerosol therapy is a type of respiratory therapy that delivers medication directly to the lungs. It is used to treat respiratory diseases such as asthma, chronic obstructive pulmonary disease (COPD), and cystic fibrosis. The therapy works by using a nebulizer to convert liquid medication into a fine mist that can be inhaled through a mask or mouthpiece.
- Oxygen therapy is used to treat patients with low oxygen levels in their blood. It involves breathing in oxygen through a mask or nasal cannula. In some cases, aerosol therapy may be combined with oxygen therapy.

## Nebulizer Mask

### Nebulizer Mask Standard

- A nebulizer is a machine that turns liquid solutions into fine mist droplets, typically by using oxygen, compressed air or ultrasonic power to create an aerosol mixture.
- Medically, a nebulizer is a treatment and medication delivery device used to administer medicated and non-medicated liquids (in the form of a fine aerosol mist) to an afflicted area within the respiratory system.



Nebulizer Mask Standard 8 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10101101	10101104	10101107
Pediatric	10101102	10101105	10101108
Neonatal	10101103	10101106	10101109

Nebulizer Mask Standard 20 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10101110	10101113	10101116
Pediatric	10101111	10101114	10101117
Neonatal	10101112	10101115	10101118

### MRI-Friendly Nebulizer Mask Standard

MRI-Friendly Nebulizer Mask Standard 8 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10101201	10101204	10101207
Pediatric	10101202	10101205	10101208
Neonatal	10101203	10101206	10101209

MRI-Friendly Nebulizer Mask Standard 20 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10101210	10101213	10101216
Pediatric	10101211	10101214	10101217
Neonatal	10101212	10101215	10101218

### Nebulizer Mask Premium

Nebulizer Mask Premium 6 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10101301	10101306	10101311
Adult	10101302	10101307	10101312
Elongated Pediatric	10101303	10101308	10101313
Pediatric	10101304	10101309	10101314
Neonatal	10101305	10101310	10101315

Nebulizer Mask Premium 8 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10101316	10101321	10101326
Adult	10101317	10101322	10101327
Elongated Pediatric	10101318	10101323	10101328
Pediatric	10101319	10101324	10101329
Neonatal	10101320	10101325	10101330

Nebulizer Mask Premium 20 ml. Cup			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10101331	10101336	10101341
Adult	10101332	10101337	10101342
Elongated Pediatric	10101333	10101338	10101343
Pediatric	10101334	10101339	10101344
Neonatal	10101335	10101340	10101345

### Nebulizer Mask Ultrair

Nebulizer Mask Ultrair 6 ml. Cup		
Size	Standard Adapters	Universal Adapters
Adult	10111401 10111405	10111403
Pediatric	10111402 10111406	10111404

### Nebulizer Mask Mouthpiece

Nebulizer Mask Mouthpiece 6 ml. Cup			
Piece	Standard Adapters	Universal Adapters	Winged Adapters
Standard	10111501	10111502	10111503
T Piece	10111504	10111505	10111506



Respiratory &amp; ICU

## Oxygen Mask

### Oxygen Mask Standard

Oxygen Mask Standard				
Size	Standard Adapters	Universal Adapters	Winged Adapters	Without Tubing
Adult	10112101	10112104	10112107	10112110
Pediatric	10112102	10112105	10112108	10112111
Neonatal	10112103	10112106	10112109	10112112

### MRI-Friendly Oxygen Mask Standard

MRI-Friendly Oxygen Mask Standard				
Size	Standard Adapters	Universal Adapters	Winged Adapters	Without Tubing
Adult	10112201	10112204	10112207	10112210
Pediatric	10112202	10112205	10112208	10112211
Neonatal	10112203	10112206	10112209	10112212

### Oxygen Mask Premium

Oxygen Mask Premium				
Size	Standard Adapters	Universal Adapters	Winged Adapters	Without Tubing
Elongated Adult	10112301	10112306	10112311	10112316
Adult	10112302	10112307	10112312	10102317
Elongated Pediatric	10112303	10112308	10112313	10112318
Pediatric	10112304	10112309	10112314	10112319
Neonatal	10112305	10112310	10112315	10112320

### Oxygen Mask Ultrair

Oxygen Mask Ultrair			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10112401	10112403	10112405
Pediatric	10112402	10112404	10112406

## Oxygen Mask Premium Capnography

- A capnography mask is a medical device that is used to measure the concentration of carbon dioxide (CO<sub>2</sub>) in a patient's exhaled breath. The mask is typically worn over the patient's nose and mouth and is connected to a capnography monitor, which displays the CO<sub>2</sub> concentration levels in real-time.
- The primary function of a capnography mask is to provide continuous monitoring of a patient's respiratory status during medical procedures, such as anaesthesia, mechanical ventilation, or conscious sedation. Capnography monitoring can provide valuable information about a patient's respiratory rate, depth of breathing, and the effectiveness of ventilation.

Oxygen Mask With Filter			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10112501	10112506	10112511
Adult	10112502	10112507	10112512
Elongated Pediatric	10112503	10112508	10112513
Pediatric	10112504	10112509	10112514
Neonatal	10112505	10112510	10112515

Oxygen Mask Without Filter			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10112516	10112521	10112526
Adult	10112517	10112522	10112527
Elongated Pediatric	10112518	10112523	10112528
Pediatric	10112519	10112524	10112529
Neonatal	10112520	10112525	10112530

## Tracheostomy Mask Premium

Tracheostomy Mask Premium			
Size	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10112601	10112604	10112607
Pediatric	10112602	10112605	10112608
Neonatal	10112603	10112606	10112609

## Oxygen Tubing

Oxygen Tubing			
Size	Standard Adapters	Universal Adapters	Winged Adapters
7ft	10112701	10112702	10112703
10ft	10112704	10112705	10112706
14ft	10112707	10112708	10112709
25ft	10112710	10112711	10112712
50ft	10112713	10112714	10112715



## Venturi Mask

- The venturi mask, also known as an air-entrainment mask, is a medical device to deliver a precise amount of oxygen concentration to patients on controlled oxygen therapy. Venturi masks are designed to deliver constant fraction of inspired oxygen (FiO<sub>2</sub>) regardless of the patient's respiratory and flow pattern (i.e., a fixed-performance device).
- They are used to deliver oxygen to patients with chronic obstructive pulmonary disease (COPD) due to the risk of type 2 respiratory failure.
- The venturi mask can deliver a high flow oxygen. Besides the British Thoracic Society recommends the use of venturi masks for acutely breathless patients requiring low doses of oxygen, because they deliver a more reliable oxygen concentration than nasal cannulas or simple face masks.

### Advantages:

- Helps to provide the precise level of FiO<sub>2</sub>
- Humidification is not needed.

### Oxygen Flow Rate of Venturi Masks

Oxygen Flow Rate	
Venturi Connector (Color)	Percentage Oxygen
	24 %
	28 %
	31 %
	35 %
	40 %
	50 %
	60 %



## Premium Venturi Mask

Size	Adjustable		
	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10113101	10113106	10113111
Adult	10113102	10113107	10113112
Elongated Pediatric	10113103	10113108	10113113
Pediatric	10113104	10113109	10113114
Neonatal	10113105	10113110	10113115

Size	Multivent		
	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10113201	10113206	10113211
Adult	10113202	10113207	10113212
Elongated Pediatric	10113203	10113208	10113213
Pediatric	10113204	10113209	10113214
Neonatal	10113205	10113210	10113215

Size	Singlevent		
	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10113301	10113306	10113311
Adult	10113302	10113307	10113312
Elongated Pediatric	10113303	10113308	10113313
Pediatric	10113304	10113309	10113314
Neonatal	10113305	10113310	10113315



## Nasal Cannulas

- A nasal cannula is a medical device to provide supplemental oxygen therapy to people who have lower oxygen levels. There are two types of nasal cannulas: low flow and high flow. The device has two prongs and sits below the nose. The two prongs deliver oxygen directly into nostrils.
- It is a device used to deliver supplemental oxygen or increased airflow to a patient or person in need of respiratory help. This device consists of a lightweight tube which on one end splits into two prongs which are placed in the nostrils and from which a mixture of air and oxygen flows.
- It is generally used wherever small amounts of supplemental oxygen are required, without rigid control of respiration, such as in oxygen therapy. Most cannulas can only provide oxygen at low flow rates up to 5 litres per minute (L/min) delivering an oxygen concentration of 28–44%.

### Straight Prongs Nasal Cannula

Size	Straight Prongs		
	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10114101	10114104	10114107
Pediatric	10114102	10114105	10114108
Neonatal	10114103	10114106	10114109



### Flared Prongs Nasal Cannula

Size	Flared Prongs		
	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10114301	10114303	10114305
Pediatric	10114302	10114304	10114306

### Soft Curved Prongs Nasal Cannula

Size	Soft Curved Prongs		
	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10114401	10114404	10114407
Pediatric	10114402	10114405	10114408
Neonatal	10114403	10114406	10114409

### Capnography - Straight Prongs Nasal Cannula

Size	Straight Prongs With Filter		
	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10114401	10114405	10114409
Pediatric	10114402	10114406	10114410

Size	Straight Prongs Without Filter		
	Standard Adapters	Universal Adapters	Winged Adapters
Adult	10114413	10114417	10114421
Pediatric	10114414	10114418	10114422

## Non-Rebreathing Masks

- A non-rebreather mask is a medical device that helps deliver oxygen in emergency situations. It consists of a face mask connected to a reservoir bag that's filled with a high concentration of oxygen. The reservoir bag is connected to an oxygen tank.
- The mask covers both nose and mouth. One-way valves prevent exhaled air from re-entering the oxygen reservoir.
- A non-rebreather mask is used in emergency situations to prevent hypoxemia, also known as low blood oxygen. Conditions that disrupt your lungs' ability to uptake oxygen or your heart's ability to pump blood can cause low blood oxygen levels.
  - Provide ↑ O<sub>2</sub> conc.
  - Lead strap & adjustable nose clip



### Standard Non-Rebreathing Masks

Size	Standard		
	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10105101	10105106	10105111
Adult	10105102	10105107	10105112
Elongated Pediatric	10105103	10105108	10105113
Pediatric	10105104	10105109	10105114
Neonatal	10105105	10105110	10105115

### Premium Non-Rebreathing Masks

Size	Premium		
	Standard Adapters	Universal Adapters	Winged Adapters
Elongated Adult	10105201	10105206	10105211
Adult	10105202	10105207	10105212
Elongated Pediatric	10105203	10105208	10105213
Pediatric	10105204	10105209	10105214
Neonatal	10105205	10105210	10105215

## Oxygen Catheters

- Oxygen Catheter is used for short-term and long-term oxygen therapy. It substitutes for an oxygen mask. Allows eating and talking during therapy.
- Oxygen Catheter is made of transparent thermoplastic non-toxic polyvinyl chloride. It is used for direct administration of oxygen through the nasopharynx. It has an open distal end with multiple lateral eyes and a funnel connector at the proximal end.
 

The tube is soft, frosted and kink-resistant DEHP-free PVC tubing. The funnel end is color-coded for easy size identification. The tube length is 40 cm and sizes range from 6FG to 16FG.
- Suitable for easy and efficient administration of oxygen via nasopharyngeal route. Soft and smooth open distal end with multiple lateral eyes for even dispersion of oxygen.

### Plain Oxygen Catheter

Size	Plain	
	Male Adapters	Funnel Adapters
8fr	10116101	10116102
10fr	10116103	10116104
12fr	10116105	10116106
14fr	10116107	10116108
16fr	10116109	10116110

### Compress Oxygen Catheter

Size	Compress	
	Male Adapters	Funnel Adapters
Elongated Adult	10116201	10116202
Adult	10116203	10116204
Elongated Pediatric	10116205	10116206
Pediatric	10116207	10116208
Neonatal	10116209	10115210



# Mechanical Ventilation & Accessories



# Anesthesia Breathing Circuits

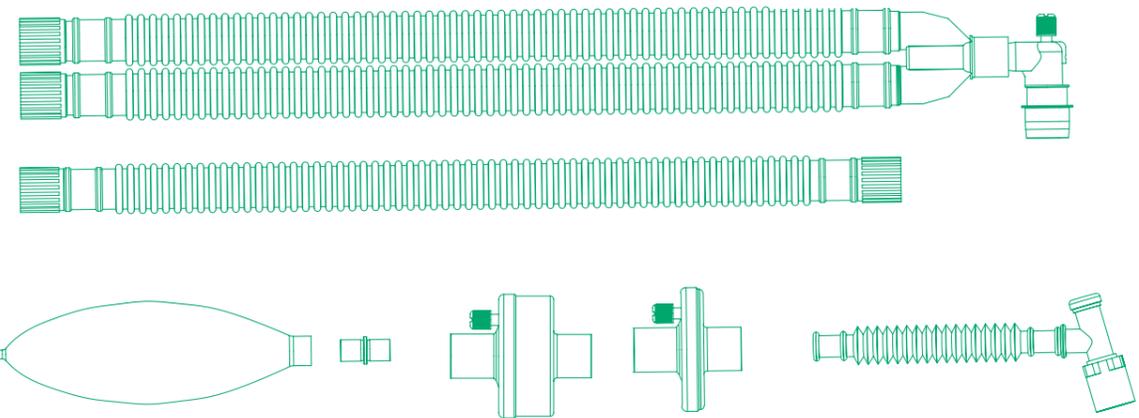
- A breathing circuit is used to deliver oxygen, remove carbon dioxide, and deliver inhalational anaesthetic agents to a patient. It consists of one or two pieces of plastic tubing and a bag that connect a fresh gas flow (wall oxygen or ventilator) to the patient's airway such as face mask, laryngeal mask airway (LMA), or endotracheal tube (ETT).

Breathing circuit is used to deliver oxygen and anaesthetics gases, and eliminate carbon dioxide. Also, to provide a pathway for the flow of gas between the mechanical ventilator and the patient's airway.

- The proper functioning of a breathing circuit is essential to ensure safe and effective delivery of oxygen and other gases to the patient.

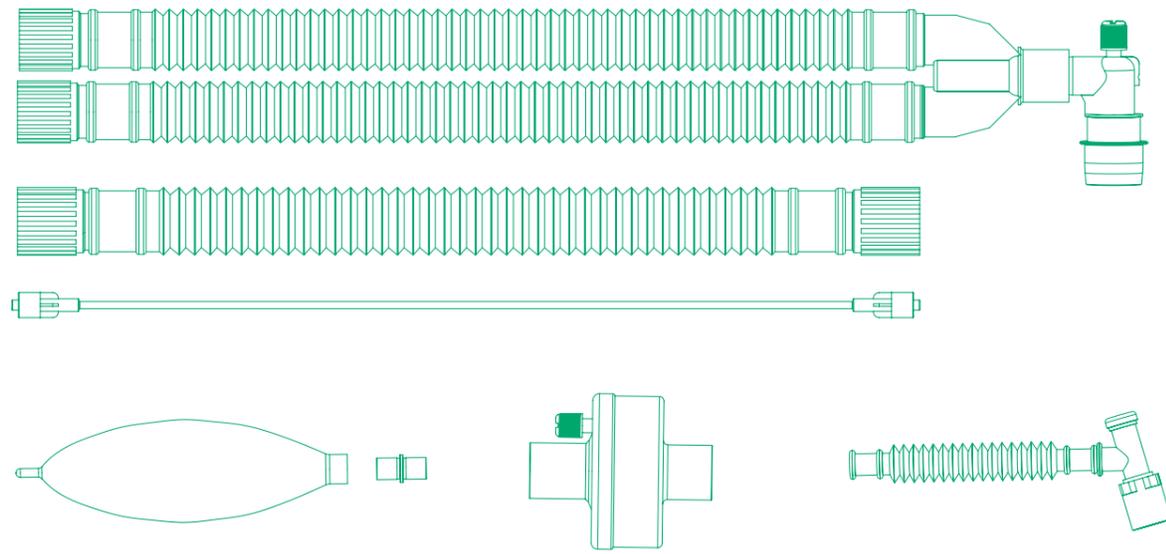


## Corrugated Breathing Circuit Without Water Trap



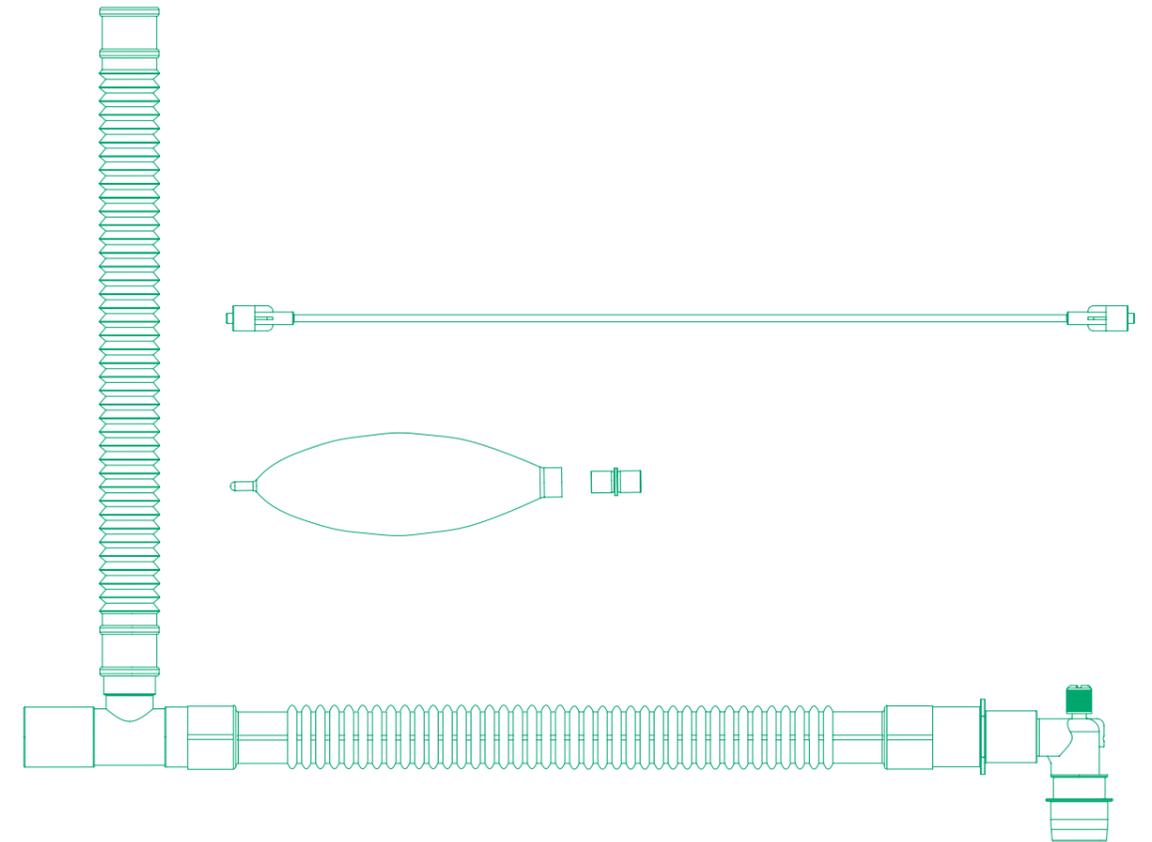
Corrugated Without Water Trap					
Code	Circuit (Tubing)		Accessories		Notes
	Size	Length (M)	Limb	Bag	
10211101	Adult	1.5	Without	Without	
10211102	Adult	1.8	Without	Without	
10211103	Adult	1.5	1.5	Without	
10211104	Adult	1.8	1.8	Without	
10211105	Adult	1.5	1.5	2L	
10211106	Adult	1.8	1.8	2L	
10211107	Adult	2.4	1.6	2L	- with HME Filter and Catheter Mount
10211108	Adult	1.8	0.9	2L	
10211109	Adult	1.8	1.2	2L	- with BV Filter
10211110	Adult	1.8	Without	2L	
10211111	Adult	3	Without	2L	
10211201	Pediatric	1.5	Without	Without	
10211202	Pediatric	1.8	Without	Without	
10211203	Pediatric	1.5	1.5	Without	
10211204	Pediatric	1.8	1.8	Without	
10211205	Pediatric	1.5	1.5	1L	
10211206	Pediatric	1.8	1.8	1L	
10211207	Pediatric	1.6	0.8	1L	

## Expandable Breathing Circuit



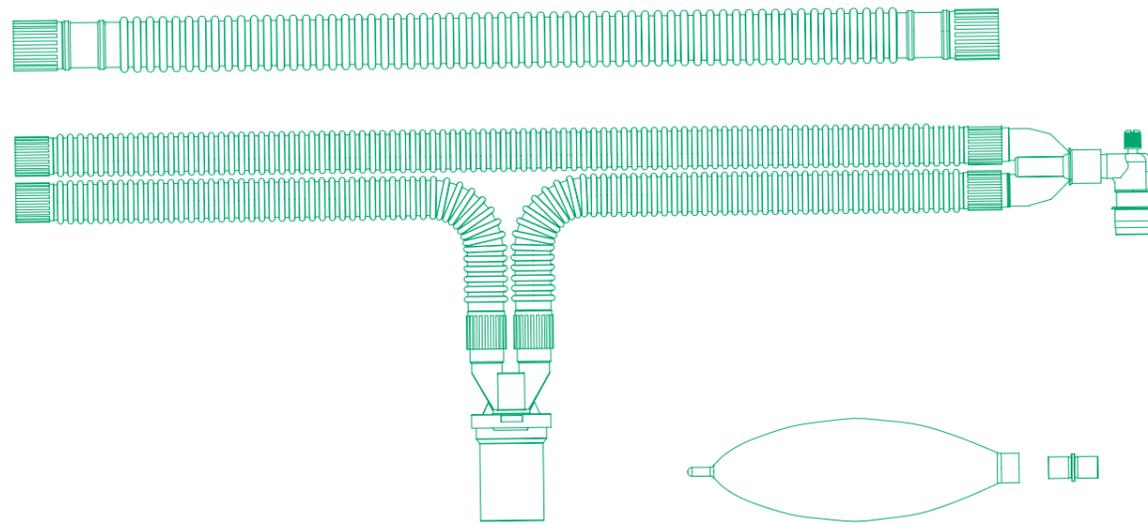
Expandable					Notes
Code	Circuit (Tubing)		Accessories		
	Size	Length (M)	Limb	Bag	
10211101	Adult	1.5	Without	Without	
10211102	Adult	1.8	Without	Without	
10211103	Adult	1.5	1.5	Without	
10211104	Adult	1.8	1.8	Without	
10211105	Adult	1.5	1.5	2L	
10211106	Adult	1.8	1.8	2L	
10211107	Adult	2.4	1.5	2L	
10211108	Adult	3	2	2L	with HME Filter , GSL 3m and Catheter Mount
10211109	Adult	2	Without	2L	
10211201	Pediatric	1.5	Without	Without	2x HME Filters , GSL 3m
10211202	Pediatric	1.8	Without	Without	
10211203	Pediatric	1.5	1.5	Without	
10211204	Pediatric	1.8	1.8	Without	
10211205	Pediatric	1.5	1.5	1L	
10211206	Pediatric	1.8	1.8	1L	
10211207	Pediatric	2	1.5	1L	

## Bilumen Breathing Circuit



Bilumen					Notes
Code	Circuit (Tubing)		Accessories		
	Size	Length (M)	Limb	Bag	
10214101	Adult	1.7	Without	2L	
10214102	Adult	3	Without	2L	
10214103	Adult	1.5	Without	Without	
10214104	Adult	1.8	Without	Without	
10214201	Pediatric	1.7	Without	2L	
10214202	Pediatric	3	Without	2L	
10214203	Pediatric	1.5	1.5	2L	
10214204	Pediatric	1.8	1.8	2L	
10214301	Neonate	1.8	Without	2L	with Integrated GSL

## Corrugated Breathing Circuit with Water Trap

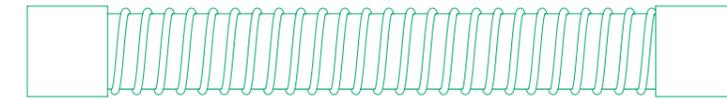


Corrugated				
Code	Circuit (Tubing)		Accessories	
	Size	Length (M)	Limb	Bag
10214401	Adult	1.8	Without	Without
10214402	Adult	1.8	1.5	2L
10214403	Adult	2.8	1.5	2L
10214501	Pediatric	1.8	Without	Without
10214502	Pediatric	1.8	1.1	1L
10214601	Neonate	1.8	Without	Without



Respiratory &amp; ICU

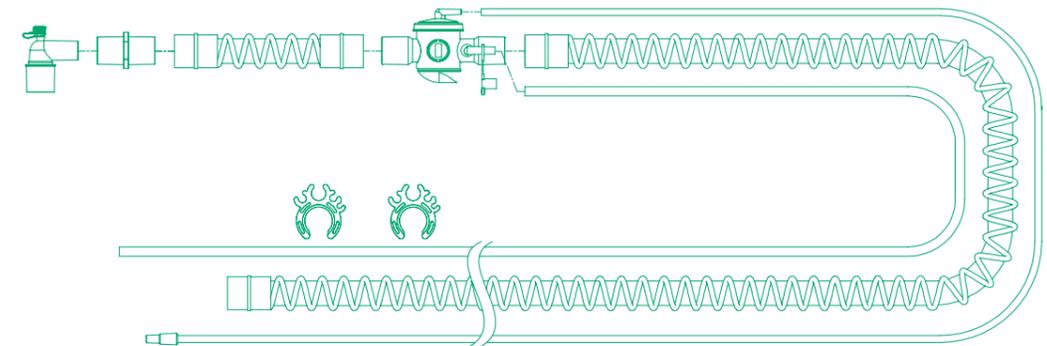
## Smoothbore Breathing Circuit



Smoothbore		
Code	Circuit (Tubing)	
	Size	Length (M)
10213101	Adult	3
10213102	Adult	1.6
10213201	Adult	3
10213202	Pediatric	1.6
10213301	Neonate	3
10213302	Neonate	1.6



## Single Limb Ventilator Circuit

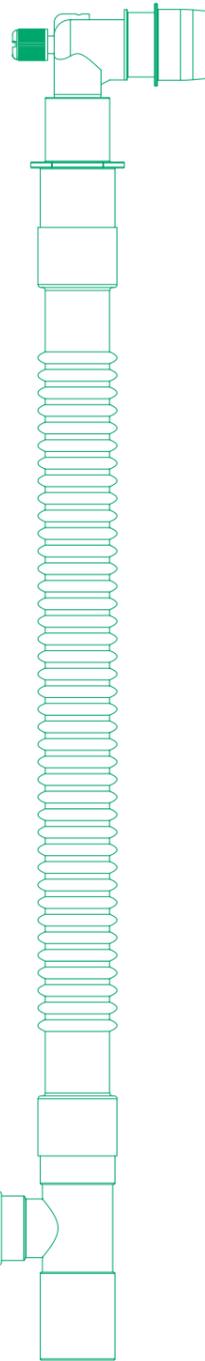
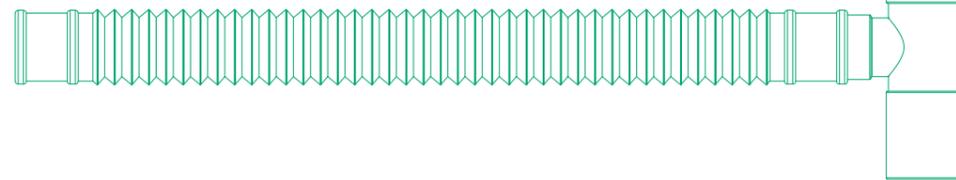


Single Limb Ventilator Circuit	
Code	Product Description
10216101	adult single limb, three way exhalation valve, smoothbore tube 1.65m, control line 2.0m, pressure line 2.0m, 15cm smoothbore catheter mount with luer lock elbow 15f/22m

## Coaxial Breathing Circuit

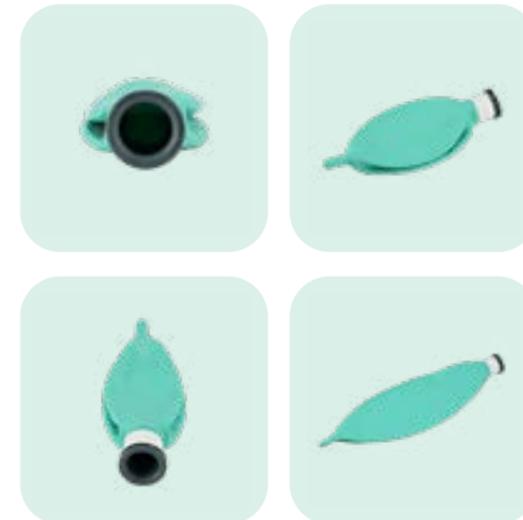
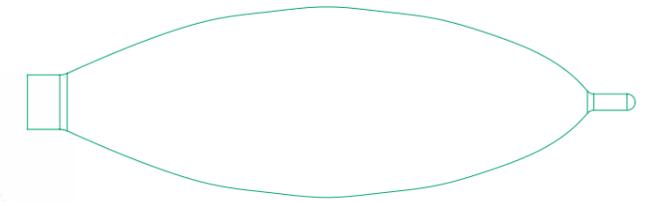
without Water Trap			
Code	Circuit (Tubing)		Notes
	Size	Length (M)	
10215101	Adult	1.7	
10215102	Adult	1.9	
10215103	Adult	2.3	
10215104	Adult	2.3	with Integrated GSL
10215105	Adult	2.3	Limb: 1.2 - Bag: 2L
10215106	Adult	1.9	Limb: 1.2 - Bag: 2L
10215201	Pediatric	1.5	

with Water Trap			
Code	Circuit (Tubing)		Notes
	Size	Length (M)	
10215401	Adult	2.1	
10215402	Adult	2.1	with Integrated GSL
10215403	Adult	2.1	Limb: 1.2 - Bag: 2L
10215404	Adult	2.3	Limb: 1.2 - Bag: 2L - with Integrated GSL



## Breathing Circuit Accessories

### Breathing Bags



- Breathing bags are used to deliver oxygen or other gases to a patient who is unable to breathe adequately on their own.
- The bags are typically made of plastic and are designed to be manually squeezed to deliver a controlled amount of gas to the patient's lungs.
- Breathing bags come in various sizes and shapes depending on the intended use, such as for use in anaesthesia or resuscitation.
- Breathing bags are an important tool in emergency medical situations and are commonly used in hospitals, ambulances, and other medical facilities.

Latex	
Size	Code
0.5L	10221101
1L	10221102
2L	10221103
3L	10221104

Latex Free	
Size	Code
0.5L	10221201
1L	10221202
2L	10221203
3L	10221204

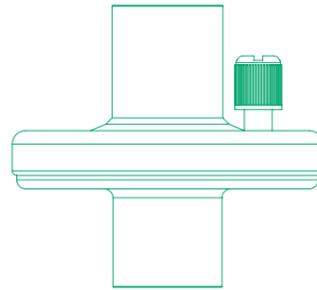
Silicone	
Size	Code
0.5L	10221301
1L	10221302
2L	10221303
3L	10221304

Latex Free - Open Tail	
Size	Code
0.5L	10221401
1L	10221402

## Bacterial Filter

\*B/V = Bacterial / Varial Filters

B/V Filters	
Size	Luer Locks
Adult	10222101 - 10222103
Pediatric	10222102 - 10222104



- Bacterial/viral filters are accessories used in respiratory devices, such as ventilators, anaesthesia machines, and respiratory therapy equipment, to prevent the spread of bacteria and viruses. These filters are designed to remove or reduce the number of microorganisms in the air that is breathed in or out of the patient's lungs.
- Bacterial/viral filters work by trapping microorganisms in a filter medium, which can be made of various materials such as electrostatically charged polypropylene or hydrophobic membrane. These filters are typically placed in the breathing circuit between the patient and the respiratory device. The filter can be placed either on the inspiratory or expiratory limb of the circuit, depending on the specific device and application.

### Benefits:

There are several benefits of using bacterial/viral filters in accessories of respiratory devices, including:

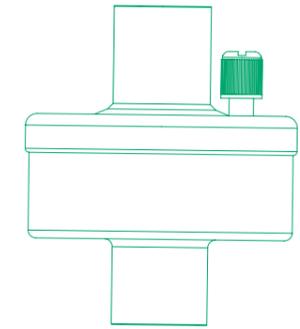
1. Reduces the risk of healthcare-associated infections
2. Improves patient safety
3. Enhances infection control measures
4. Easy to use and dispose of
5. Cost-effective



Respiratory & ICU

## HME Foam Filter

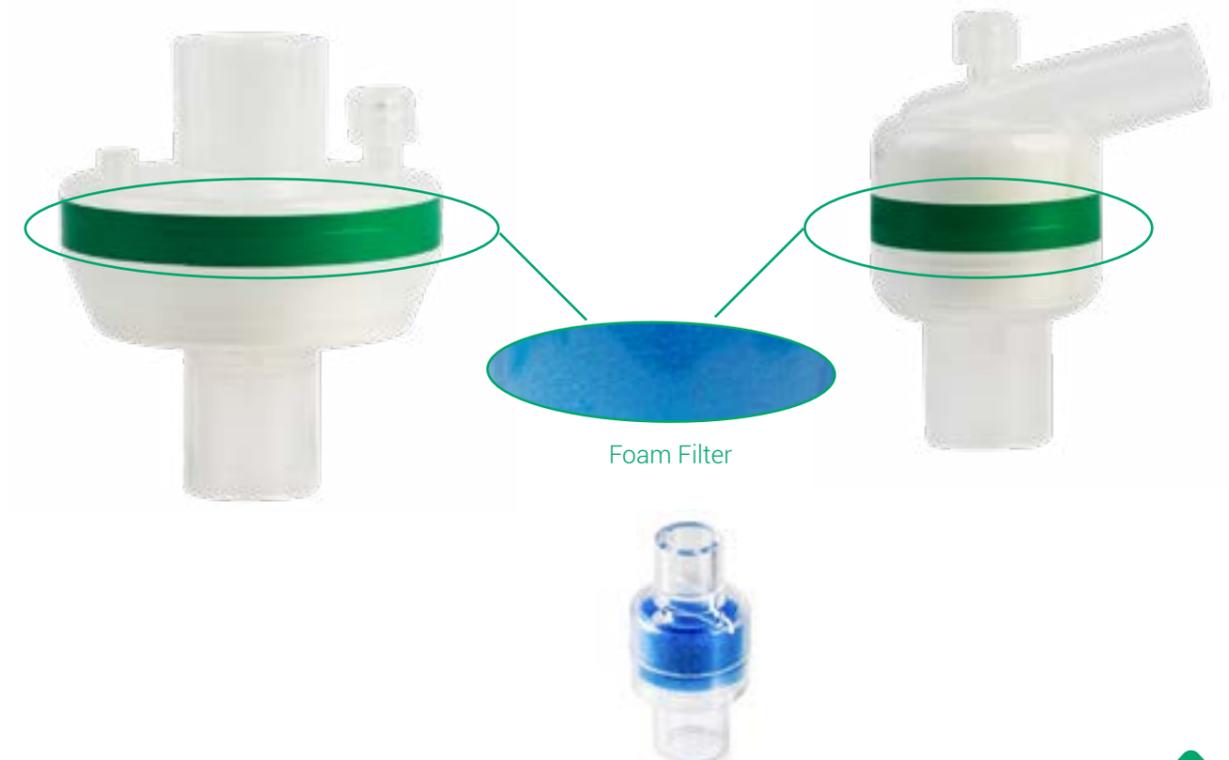
B/V Filters + HME Foam	
Size	Luer Locks
Adult	10222201 - 10222203
Pediatric	10222202 - 10222204



- An HME (Heat and Moisture Exchange) foam filter is a medical device used in respiratory therapy to help humidify and warm the air that a patient breathes in.
- These filters typically consist of a foam material with a large surface area and are designed to trap moisture from the patient's exhaled breath and release it into the air they breathe in.
- The moisture helps to prevent dryness and irritation of the airways and improves the patient's comfort during mechanical ventilation or other respiratory therapy.

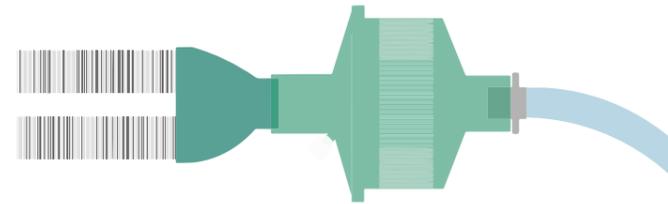
### Benefit:

**Improved patient comfort: HME foam filters help to humidify and warm the air that the patient breathes in, which can improve their comfort during respiratory therapy.**



## HME Pleated Filter

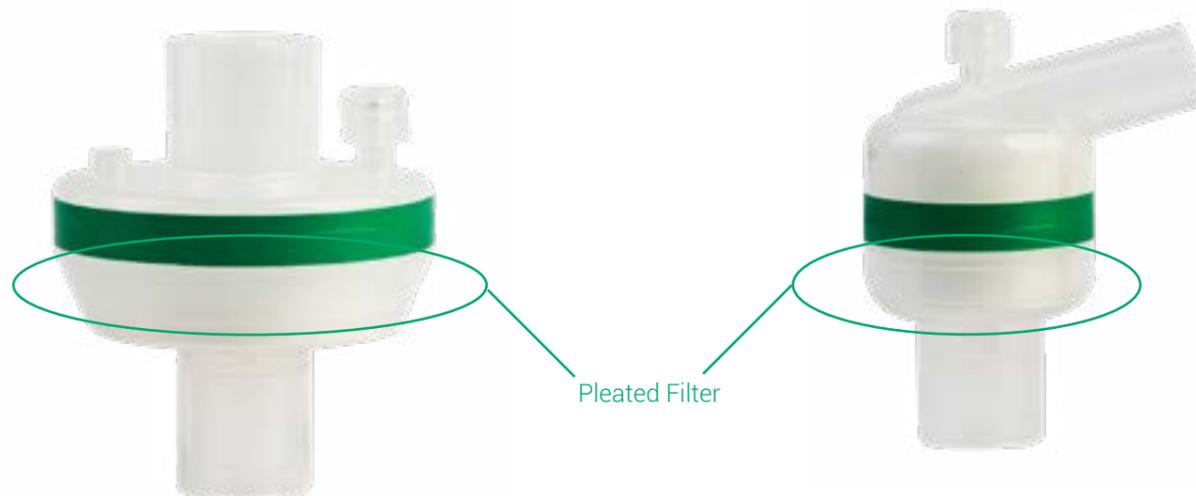
B/V Filters + HME Pleated	
Size	Luer Locks
Adult	10222301 - 10222303
Pediatric	10222302 - 10222304



- An HME (Heat and Moisture Exchange) pleated filter is a medical device used in respiratory therapy to help humidify and warm the air that a patient breathes in.
- These filters consist of a pleated material with a large surface area and are designed to trap moisture from the patient's exhaled breath and release it into the air they breathe in. The moisture helps to prevent dryness and irritation of the airways and improves the patient's comfort during mechanical ventilation or other respiratory therapy.
- HME pleated filters are typically more effective at filtering out airborne particles, including bacteria and viruses, compared to HME foam filters.
- They are designed to be disposable and are typically replaced every 24-48 hours or as needed.

### Benefit:

**Improved filtration efficiency:** HME pleated filters are more effective at filtering out airborne particles, including bacteria and viruses, compared to HME foam filters.



## HEPA (High-Efficiency Particulate Air)

HEPA Filter	
Size	Pleated Hydrophobic B/V
Adult	10222301
Pediatric	10222302

HEPA (High-Efficiency Particulate Air) filters are a type of air filter that are designed to remove a wide range of airborne particles, including dust, pollen, mold spores, and some bacteria and viruses. HEPA filters are commonly used in a variety of applications, including residential, commercial, and industrial air filtration systems, as well as in medical settings to help prevent the spread of infectious diseases.

### Benefits:

The benefits of HEPA (High-Efficiency Particulate Air) filters include:

1. Improved indoor air quality
2. Allergy relief
3. Reduced risk of airborne infections
4. Increased respiratory protection

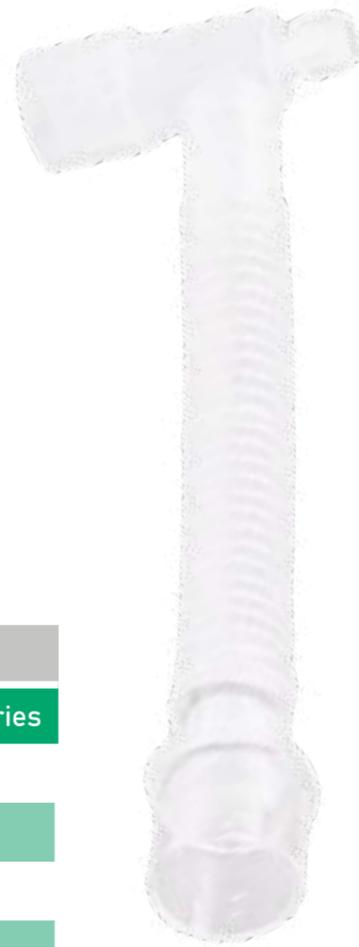


## Catheter Mounts

Catheter mounts are medical devices used to secure and stabilize Catheters in place during medical procedures or for long-term use. They are typically used in situations where a Catheter needs to be secured in a particular position or where movement of the Catheter needs to be minimized.

Catheter mounts are used in a variety of medical applications, including:

**Respiratory therapy:** Catheter mounts can be used to secure respiratory Catheters in place during procedures such as bronchoscopy or tracheostomy.



## Corrugated Catheter Mounts

Corrugated				
Code	Size	Length	Elbow Shape	Accessories
10223101	Adult	15cm	Straight	-
10223102	Pediatric	15cm	Straight	-
10223103	Adult	15cm	90 Degree	-
10223104	Pediatric	15cm	90 Degree	-
10223105	Adult	15cm	90 Degree	CO2 Port
10223106	Pediatric	15cm	90 Degree	CO2 Port
10223107	Adult	15cm	Double Swivl	Port and Cap
10223108	Pediatric	15cm	Double Swivl	Port and Cap

- The corrugated design of the Catheter allows it to bend and flex without kinking, which can be useful in situations where the Catheter needs to be inserted through a curved or restricted passage. The ridges also provide additional strength and resistance to crushing or collapsing, which can be important in applications such as chest tubes.
- It can be used in Chest tube placement: Corrugated Catheters can be used to drain fluid or air from the chest cavity in patients with conditions such as a collapsed lung or pleural effusion.

## Expandable Catheter Mounts

Expandable				
Code	Size	Length	Elbow Shape	Accessories
10223201	Adult	15cm	Straight	-
10223202	Pediatric	15cm	Straight	-
10223203	Adult	15cm	90 degree	-
10223204	Pediatric	15cm	90 degree	-
10223205	Adult	15cm	90 degree	CO2 Port
10223206	Pediatric	15cm	90 degree	CO2 Port
10223207	Adult	15cm	double swivl	Port and Cap
10223208	Pediatric	15cm	double swivl	Port and Cap



- An expandable Catheter is a medical device used to provide access or drainage to a body cavity, such as the blood vessels. As the name suggests, an expandable Catheter is designed to expand in diameter when in use, which can be useful in situations where a larger Catheter is needed but a smaller Catheter is first inserted to minimize discomfort or tissue damage.
- There are different types of expandable Catheters, but one common design involves a balloon that can be inflated once the Catheter is in place. The balloon is typically located near the tip of the Catheter, and it can be inflated using a syringe or other mechanism. Once inflated, the balloon expands the diameter of the Catheter, which can help secure it in place and prevent it from slipping out. Expandable Catheters can be used for vascular access during procedures such as angioplasty or stent placement.



## Smoothbore Catheter Mounts

Smoothbore				
Code	Size	Length	Elbow Shape	Accessories
10223301	Adult	15cm	Straight	-
10223302	Pediatric	15cm	Straight	-
10223303	Adult	15cm	90 degree	-
10223304	Pediatric	15cm	90 degree	-
10223305	Adult	15cm	90 degree	CO2 Port
10223306	Pediatric	15cm	90 degree	CO2 Port
10223307	Adult	15cm	double swivel	Port and Cap
10223308	Pediatric	15cm	double swivel	Port and Cap



- A smoothbore Catheter mount is a medical device used to secure and stabilize a Catheter in place during medical procedures or for long-term use. It is called "smoothbore" because it has a smooth, unobstructed inner diameter, which allows for the maximum possible flow of fluids through the Catheter.
- Smoothbore Catheter mounts consist of a base that is attached to the patient's skin or clothing and a flexible arm or tube that holds the Catheter in place. The arm or tube is designed to be adjustable, which allows the healthcare provider to position the Catheter in the optimal location.



## Anesthesia Mask

- An anaesthesia mask, also known as an anaesthesia face mask or a breathing mask, is a medical device used to deliver anaesthesia or oxygen to a patient during surgical procedures, diagnostic tests, or other medical interventions. The mask is typically made of clear, medical-grade plastic and is designed to fit over the nose and mouth of the patient.

Anaesthesia masks are commonly used in situations where the patient is unable to breathe on their own due to the effects of anaesthesia or sedation. They can also be used to deliver oxygen to patients with respiratory distress or other breathing problems.



### Inflatable Air Cushion Mask

Code	Size
10224101	Neonatal
10224102	Infant
10224103	Pediatric
10224104	Small Adult
10224105	Medium Adult
10224106	Large Adult
10224107	Extra Large Adult

### Non-Inflatable Mask

Code	Size
10224201	Neonatal
10224202	Infant
10224203	Pediatric
10224204	Small Adult
10224205	Medium Adult
10224206	Large Adult
10224207	Extra Large Adult

### Silicon Cushion Reusable Mask

Code	Size
10224301	Neonatal
10224302	Infant
10224303	Pediatric
10224304	Small Adult
10224305	Medium Adult
10224306	Large Adult
10224307	Extra Large Adult

There are different types of anaesthesia masks available, including:

1. **Reusable masks:** These masks can be cleaned and sterilized for multiple uses.
2. **Disposable masks:** These masks are designed for single use and are discarded after each procedure to prevent the spread of infection.
3. **Clear masks:** These masks are made of clear plastic, which allows for better visibility of the patient's face and airway during the procedure.
4. **Mask with inflatable cuff:** These masks have an inflatable cuff that creates a seal around the patient's nose and mouth, which helps to prevent leakage of gases.



## Gas Sampling Mask

Gas sampling lines have several benefits in medical settings. Some of the key benefits include:

1. **Accurate monitoring:** Gas sampling lines allow for the accurate monitoring of a patient's respiratory function. This can help healthcare professionals to make more informed treatment decisions and adjust ventilation settings as needed.
2. **Non-invasive:** Gas sampling lines are non-invasive, meaning they do not require any punctures or invasive procedures to collect gas samples. This can help to minimize discomfort and reduce the risk of complications associated with invasive procedures.
3. **Easy to use:** Gas sampling lines are relatively easy to use and can be quickly attached to respiratory devices such as endotracheal tubes or mechanical ventilators.
4. **Versatile:** Gas sampling lines are available in different lengths and diameters to fit a range of respiratory devices and patient needs. They can also be used with various types of gas analysers or monitoring devices.
5. **Cost-effective:** Gas sampling lines are generally inexpensive and disposable, which minimize the risk of infection transmission.



Male/Male		
Length	Without Pressure Line	With Pressure Line
2m	10225101	10225103
3m	10225102	10225104

Female/Female		
Length	Without Pressure Line	With Pressure Line
2m	10225201	10225203
3m	10225202	10225204

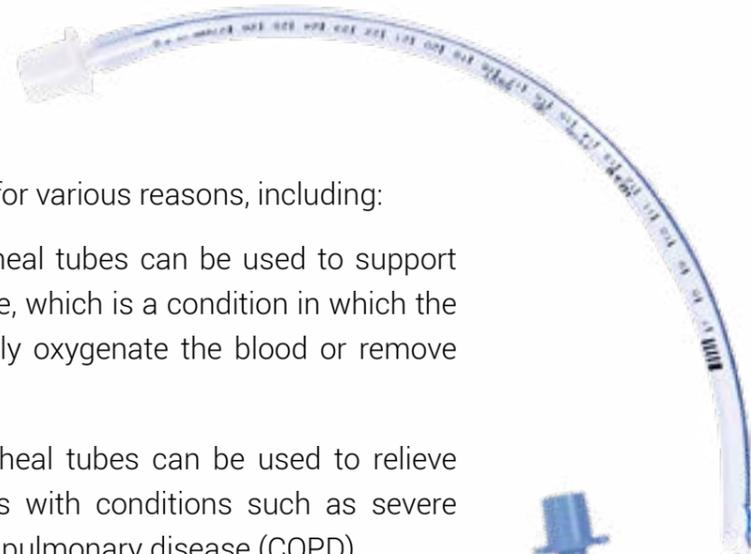
Male/Female		
Length	Without Pressure Line	With Pressure Line
2m	10225301	10225303
3m	10225302	10225304

# Airway Management



# Endotracheal Tubes

- An endotracheal tube (ET tube) is a medical device used to provide an airway for patients who are unable to breathe adequately on their own. It is commonly used in emergency and critical care settings, as well as during surgical procedures.
- The endotracheal tube is a flexible tube made of plastic or rubber that is inserted through the mouth or nose and into the trachea (windpipe) of the patient. The tube is connected to a ventilator or other respiratory device that provides oxygen and other gases to the patient's lungs.
- Endotracheal tubes come in different sizes to fit a range of patient ages and sizes, from infants to adults. The tube is typically secured in place with tape or a specialized device called an endotracheal tube holder.



Endotracheal tubes may be used for various reasons, including:

1. **Respiratory failure:** Endotracheal tubes can be used to support patients with respiratory failure, which is a condition in which the lungs are unable to adequately oxygenate the blood or remove carbon dioxide.
2. **Airway obstruction:** Endotracheal tubes can be used to relieve airway obstruction in patients with conditions such as severe asthma or chronic obstructive pulmonary disease (COPD).

## Standard Endotracheal Tubes

Size (ID)	Standard			
	Uncuffed	Cuffed		
		High Volume Low Pressure	Low Profile	PU
2.0 mm	10311001	-	-	-
2.5 mm	10311002	10312001	10312019	-
3.0 mm	10311003	10312002	10312020	10312035
3.5 mm	10311004	10312003	10312021	10312036
4.0 mm	10311005	10312004	10312022	10312037
4.5 mm	10311006	10312005	10312023	10312038
5.0 mm	10311007	10312006	10312024	10312039
5.5 mm	10311008	10312007	10312025	10312040
6.0 mm	10311009	10312008	10312026	10312041
6.5 mm	10311010	10312009	10312027	10312042
7.0 mm	10311011	10312010	10312028	10312043
7.5 mm	10311012	10312011	10312029	10312044
8.0 mm	10311013	10312012	10312030	10312045
8.5 mm	10311014	10312013	10312031	10312046
9.0 mm	10311015	10312014	10312032	10312047
9.5 mm	10311016	10312015	10312033	10312048
10.0 mm	10311017	10312016	10312034	10312049
10.5 mm	10311018	10312017	-	-
11.0 mm	10311019	10312018	-	-

## Nasal Endotracheal Tubes

Nasal				
Size (ID)	Uncuffed	Cuffed		
		High Volume Low Pressure	Low Profile	PU
3.0 mm	10311101	10312101	10312116	10312131
3.5 mm	10311102	10312102	10312117	10312132
4.0 mm	10311103	10312103	10312118	10312133
4.5 mm	10311104	10312104	10312119	10312134
5.0 mm	10311105	10312105	10312120	10312135
5.5 mm	10311106	10312106	10312121	10312136
6.0 mm	10311107	10312107	10312122	10312137
6.5 mm	10311108	10312108	10312123	10312138
7.0 mm	10311109	10312109	10312124	10312139
7.5 mm	10311110	10312110	10312125	10312140
8.0 mm	10311111	10312111	10312126	10312141
8.5 mm	10311112	10312112	10312127	10312142
9.0 mm	10311113	10312113	10312128	10312143
9.5 mm	10311114	10312114	10312129	10312144
10.0 mm	10311115	10312115	10312130	10312145



Respiratory &amp; ICU

## Reinforced Endotracheal Tubes

Reinforced				
Size (ID)	Uncuffed	Cuffed		
		High Volume Low Pressure	Low Profile	PU
3.0 mm	10311201	10312201	10312216	10312231
3.5 mm	10311202	10312202	10312217	10312232
4.0 mm	10311203	10312203	10312218	10312233
4.5 mm	10311204	10312204	10312219	10312234
5.0 mm	10311205	10312205	10312220	10312235
5.5 mm	10311206	10312206	10312221	10312236
6.0 mm	10311207	10312207	10312222	10312237
6.5 mm	10311208	10312208	10312223	10312238
7.0 mm	10311209	10312209	10312224	10312239
7.5 mm	10311210	10312210	10312225	10312240
8.0 mm	10311211	10312211	10312226	10312241
8.5 mm	10311212	10312212	10312227	10312242
9.0 mm	10311213	10312213	10312228	10312243
9.5 mm	10311214	10312214	10312229	10312244
10.0 mm	10311215	10312215	10312230	10312245



Quality In Care

## Standard Endotracheal Tubes

Preloaded Stylets			
Size (ID)	Uncuffed	Cuffed	
		High Volume Low Pressure	Low Profile
2.0 mm	10311301	-	-
2.5 mm	10311302	-	10312316
3.0 mm	10311303	10312301	10312317
3.5 mm	10311304	10312302	10312318
4.0 mm	10311305	10312303	10312319
4.5 mm	10311306	10312304	10312320
5.0 mm	10311307	10312305	10312321
5.5 mm	10311308	10312306	10312322
6.0 mm	10311309	10312307	10312323
6.5 mm	10311310	10312308	10312324
7.0 mm	10311311	10312309	10312325
7.5 mm	10311312	10312310	10312326
8.0 mm	10311313	10312311	10312327
8.5 mm	10311314	10312312	10312328
9.0 mm	10311315	10312313	10312329
9.5 mm	10311316	10312314	10312330
10.0 mm	10311317	10312315	10312331
10.5 mm	10311318	-	-
11.0 mm	10311319	-	-



Suction Lumen		
Size (ID)	Cuffed	
	High Volume Low Pressure	PU
4.0 mm	10312401	-
4.5 mm	10312402	-
5.0 mm	10312403	-
5.5 mm	10312404	-
6.0 mm	10312405	10312412
6.5 mm	10312406	10312413
7.0 mm	10312407	10312414
7.5 mm	10312408	10312415
8.0 mm	10312409	10312416
8.5 mm	10312410	10312417
9.0 mm	10312411	10312418



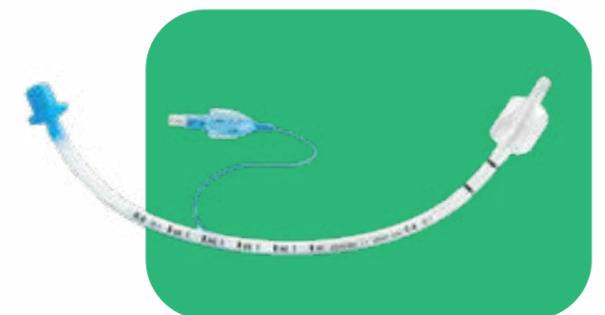
## Soft Endotracheal Tubes

Soft Line		
Size (ID)	Uncuffed	High Volume Low Pressure Cuffed
2.5 mm	10311601	-
3.0 mm	10311602	-
3.5 mm	10311603	-
4.0 mm	10311604	-
4.5 mm	10311605	-
5.0 mm	10311606	10312601
5.5 mm	10311607	10312602
6.0 mm	10311608	10312603
6.5 mm	10311609	10312604
7.0 mm	10311610	10312605
7.5 mm	10311611	10312606
8.0 mm	10311612	10312607
8.5 mm	10311613	10312608
9.0 mm	10311614	10312609

Soft Line	
Size (ID)	High Volume Low Pressure Cuffed
5.0 mm	10312701
5.5 mm	10312702
6.0 mm	10312703
6.5 mm	10312704
7.0 mm	10312705
7.5 mm	10312706
8.0 mm	10312707
8.5 mm	10312708
9.0 mm	10312709

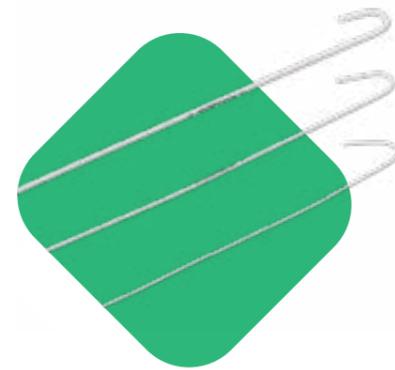
## Microlaryngeal Tube

Cuffed		
Size (ID)	Length	Code
4.0 mm	380mm	10312801
5.0 mm	380mm	10312802
6.0 mm	380mm	10312803



## Accessories

Intubating Stylet	
Size	Code
6 Fr	10310901
10 Fr	10310902
12 Fr	10310903
14 Fr	10310904



Holder	
Code	Size
10310923	Adult
10310924	Pediatric

Introducer					
Code	Type	Size	Length	Tip Type	Note
10310905	Solid	6 Fr	535mm	Angled	
10310906	Solid	10 Fr	700mm	Angled	
10310907	Solid	15 Fr	700mm	Angled	
10310908	Solid	5 Fr	470mm	Straight	
10310909	Solid	10 Fr	600mm	Straight	
10310910	Solid	10 Fr	600mm	Angled	
10310911	Solid	10 Fr	800mm	Straight	
10310912	Solid	10 Fr	800mm	Angled	
10310913	Solid	15 Fr	600mm	Straight	
10310914	Solid	15 Fr	600mm	Angled	
10310915	Solid	15 Fr	800mm	Straight	
10310916	Solid	15 Fr	800mm	Angled	
10310917	Hollow	10 Fr	700mm	Angled	
10310918	Hollow	15 Fr	700mm	Angled	
10310919	Hollow	10 Fr	750mm	Angled	
10310920	Hollow	10 Fr	750mm	Angled	with Oxygen Adapter
10310921	Hollow	14 Fr	750mm	Angled	
10310922	Hollow	14 Fr	750mm	Angled	with Oxygen Adapter

## Tracheostomy Tube



Uncuffed



Cuffed

- Connector/adaptor:** connects the tracheostomy tube to the ventilator if needed. May be part of the inner cannula.
- Flange:** used to secure the tracheostomy tube to the neck via the two neck strap openings along either side. Typically, between the connector and the shaft.
- Shaft:** the portion from the connector to the distal tip. Angled to accommodate its position in the proximal neck/trachea. The distal tip is usually tapered for easy insertion.
- Innercannula:** a narrower hollow cannula of the same length and shape as the tracheostomy itself and lies inside the main lumen of the tracheostomy tube. The key advantage is that it can be removed and cleaned regularly without removing the tracheostomy tube from its stoma, so the airway remains intact and stable. Not present in some models.
- Cuff:** inflated using a pilot balloon to serve as a one-way valve similar to that on an endotracheal tube. Located just superior to the distal tip. Note that some tracheostomy tubes are cuffless by design.
- Trocar/obturator:** a smooth, rounded device with a tapered distal end that aids in placement/replacement of the tracheostomy tube. Remove once the tube is secured.

Tracheostomy tubes may be used for various reasons, including:

- 1. Respiratory failure:** Tracheostomy tubes can be used to support patients with chronic respiratory failure due to conditions such as chronic obstructive pulmonary disease (COPD) or neuromuscular diseases.
- 2. Long-term ventilation:** Tracheostomy tubes can be used to provide long-term mechanical ventilation to patients who require prolonged respiratory support.
- 3. Airway obstruction:** Tracheostomy tubes can be used to relieve airway obstruction in patients with conditions such as cancer, trauma, or infections.
- 4. Removal of secretions:** Tracheostomy tubes can be used to remove secretions from the airway in patients who are unable to cough effectively due to neuromuscular or other conditions.

### Standard Tracheostomy Tube

Standard		
Size (ID)	Uncuffed	Cuffed
3.0mm	10320101	10320201
3.5mm	10320102	10320202
4.0mm	10320103	10320203
4.5mm	10320104	10320204
5.0mm	10320105	10320205
5.5mm	10320106	10320206
6.0mm	10320107	10320207
6.5mm	10320108	10320208
7.0mm	10320109	10320209
7.5mm	10320110	10320210
8.0mm	10320111	10320211
8.5mm	10320112	10320212
9.0mm	10320113	10320213
9.5mm	10320114	10320214
10.0mm	10320115	10320215



- A tracheostomy tube is a medical device used to provide an airway for patients who require long-term mechanical ventilation or who are unable to breathe adequately on their own due to a variety of medical conditions. The tube is inserted into a surgically created opening in the patient's neck called a tracheostomy, which allows air to flow directly into the trachea (windpipe).
- Tracheostomy tubes come in different sizes and shapes to fit a range of patient needs. They are typically made of silicone or other medical-grade materials and can be either disposable or reusable.

### Standard Tracheostomy Tube with Suction Lumen

Standard with Suction Lumen	
Size (ID)	Code
4.0mm	10320301
4.5mm	10320302
5.0mm	10320303
5.5mm	10320304
6.0mm	10320305
6.5mm	10320306
7.0mm	10320307
7.5mm	10320308
8.0mm	10320309
8.5mm	10320310
9.0mm	10320311
9.5mm	10320312



### Holder

Holder	
Size	Code
Adult	10320401
Pediatric	10320402

# Airways

## Oropharyngeal Airways

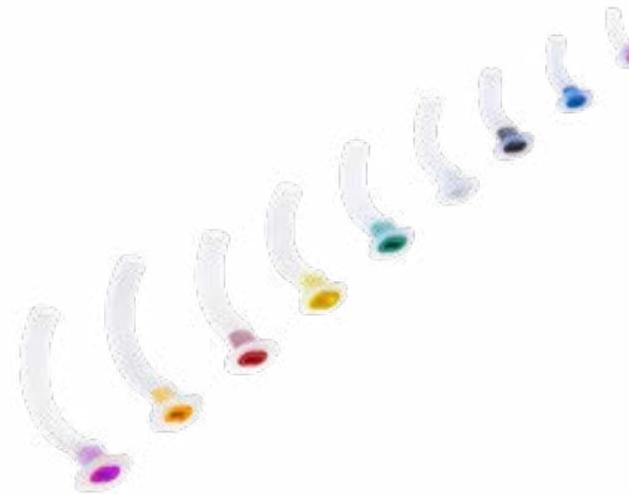
- An oropharyngeal airway (OPA) is a medical device used to maintain an open airway in unconscious or sedated patients. It is a short, curved, J-shaped tube made of plastic or rubber that is inserted into the patient's mouth and throat to prevent the tongue from blocking the airway.
- OPAs come in different sizes to fit a range of patient ages and sizes, from infants to adults. They are typically used when a patient is under general anaesthesia, undergoing sedation, or is unconscious due to a medical condition.

The **Berman Airway** is a newer type of airway device that is designed to have a more anatomically shaped profile and a more flexible material than the Guedel airway. It has a curved shape with a flattened tip that is intended to reduce trauma to the tongue and other soft tissues of the mouth and throat. The Berman airway is available in different sizes to fit a range of patient needs.



Berman	
Size	Code
40mm	10330101
50mm	10330102
60mm	10330103
70mm	10330104
80mm	10330105
90mm	10330106
100mm	10330107
110mm	10330108
120mm	10330109
Set (40-110)mm	10330110

The **Guedel Airway**, also known as the oropharyngeal airway or OPA, is a more traditional type of airway device that has been in use for many years. It has a curved shape that is intended to follow the contours of the tongue and pharynx, with a flange at the base to prevent the device from being inserted too far into the mouth. The Guedel airway is available in different sizes to fit a range of patient needs.



Guedel	
Size	Code
40mm	10330201
50mm	10330202
60mm	10330203
70mm	10330204
80mm	10330205
90mm	10330206
100mm	10330207
110mm	10330208
120mm	10330209
Set (40-110)mm	10330210

# Nasopharyngeal Airways

A Nasopharyngeal airway (NPA) is a medical device used to maintain an open airway in patients who are unable to breathe adequately on their own. It is a flexible, tube-shaped device made of soft, rubber or plastic material that is inserted through the nostril and into the nasopharynx, the area at the back of the nasal cavity.

## The Trumpet Nasopharyngeal Airway (TNPA):

- The Trumpet Nasopharyngeal airway (TNPA) is a specialized type of nasopharyngeal airway that is designed to provide a more secure and stable airway for patients who require prolonged ventilation or are at risk of airway obstruction.
- The TNPA consists of a soft, flexible tube with a trumpet-shaped flange at one end. The flange is designed to sit at the base of the nostril and provide a secure seal to prevent the airway from becoming dislodged during use. The tube is longer than a standard NPA, which allows it to extend further into the nasopharynx and provide better airway support.



Trumpet Airway	
Size	Code
10fr - 2.5mm	10330301
12fr - 3.0mm	10330302
14fr - 3.5mm	10330303
16fr - 4.0mm	10330304
18fr - 4.5mm	10330305
20fr - 5.0mm	10330306
22fr - 5.5mm	10330307
24fr - 6.0mm	10330308
26fr - 6.5mm	10330309
28fr - 7.0mm	10330310
30fr - 7.5mm	10330311
32fr - 8.0mm	10330312
34fr - 8.5mm	10330313
36fr - 9.0mm	10330314

Thickened Airway	
Size	Code
10fr - 2.5mm	10330401
12fr - 3.0mm	10330402
14fr - 3.5mm	10330403
16fr - 4.0mm	10330404
18fr - 4.5mm	10330405
20fr - 5.0mm	10330406
22fr - 5.5mm	10330407
24fr - 6.0mm	10330408
26fr - 6.5mm	10330409
28fr - 7.0mm	10330410
30fr - 7.5mm	10330411
32fr - 8.0mm	10330412
34fr - 8.5mm	10330413
36fr - 9.0mm	10330414



## The Thickened Nasopharyngeal Type:

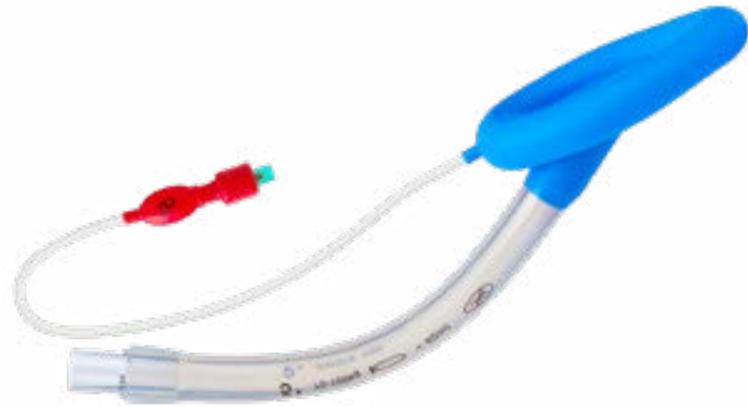
- In some cases, a healthcare professional may choose to use a thicker NPA to provide additional airway support for patients with certain medical conditions.
- For example, patients with neuromuscular disorders or other conditions that affect their ability to swallow or protect their airway may benefit from a thicker NPA. This is because a thicker NPA can help to maintain a more stable airway and prevent the device from becoming dislodged.

Slidable Airway	
Size	Code
10fr - 2.5mm	10330501
12fr - 3.0mm	10330502
14fr - 3.5mm	10330503
16fr - 4.0mm	10330504
18fr - 4.5mm	10330505
20fr - 5.0mm	10330506
22fr - 5.5mm	10330507
24fr - 6.0mm	10330508
26fr - 6.5mm	10330509
28fr - 7.0mm	10330510
30fr - 7.5mm	10330511
32fr - 8.0mm	10330512
34fr - 8.5mm	10330513
36fr - 9.0mm	10330514

## The Slidable Nasopharyngeal Type:

- A Slidable Nasopharyngeal Airway (NPA) is a specialized type of NPA that features a movable flange that can be adjusted to fit the patient's individual anatomy.
- The Slidable NPA consists of a soft, flexible tube with a flange at the base. The flange is designed to sit at the nostril opening and prevent the airway from becoming dislodged during use. The flange is attached to a sliding mechanism that can be adjusted to fit the patient's individual anatomy.

# Laryngeal Masks



- A Laryngeal mask airway (LMA) is a medical device used to maintain an open airway in patients who are unable to breathe adequately on their own. It is a tube-shaped device made of soft, flexible materials that is inserted through the mouth and into the pharynx, where it sits above the larynx and provides a seal around the entrance to the trachea.
- The LMA is designed to fit over the larynx and provide a secure airway seal, allowing air to flow freely in and out of the lungs. It is typically used in emergency and critical care settings, as well as during surgical procedures.
- The LMA comes in different sizes to fit a range of patient ages and sizes, from infants to adults. It is inserted through the mouth and advanced into the pharynx, where it is secured in place with a cuff that inflates to provide a tight seal around the entrance to the trachea.

## Disposable Laryngeal Masks

PVC		
Type	Weight	Code
1	<5kg	10340101
1.5	5-10 kg	10340102
2	10-20 kg	10340103
2.5	20-30 kg	10340104
3	30-50 kg	10340105
4	50-70 kg	10340106
5	70-100 kg	10340107

Silicone		
Type	Weight	Code
1	<5kg	10340201
1.5	5-10 kg	10340202
2	10-20 kg	10340203
2.5	20-30 kg	10340204
3	30-50 kg	10340205
4	50-70 kg	10340206
5	70-100 kg	10340207
6	>100kg	10340208

## Reusable Laryngeal Masks

Silicone		
Type	Weight	Code
1	<5kg	10340301
1.5	5-10 kg	10340302
2	10-20 kg	10340303
2.5	20-30 kg	10340304
3	30-50 kg	10340305
4	50-70 kg	10340306
5	70-100 kg	10340307
6	>100kg	10340308



## Mask Laryngeal

Drainage Tube		
Type	Weight	Code
3	30-50 kg	10340401
4	50-70 kg	10340402
5	70-100 kg	10340403



Gastric Access		
Type	Weight	Code
1.5	5-10 kg	10340501
2	10-20 kg	10340502
2.5	20-30 kg	10340503
3	30-50 kg	10340504
4	50-70 kg	10340505
5	70-100 kg	10340506

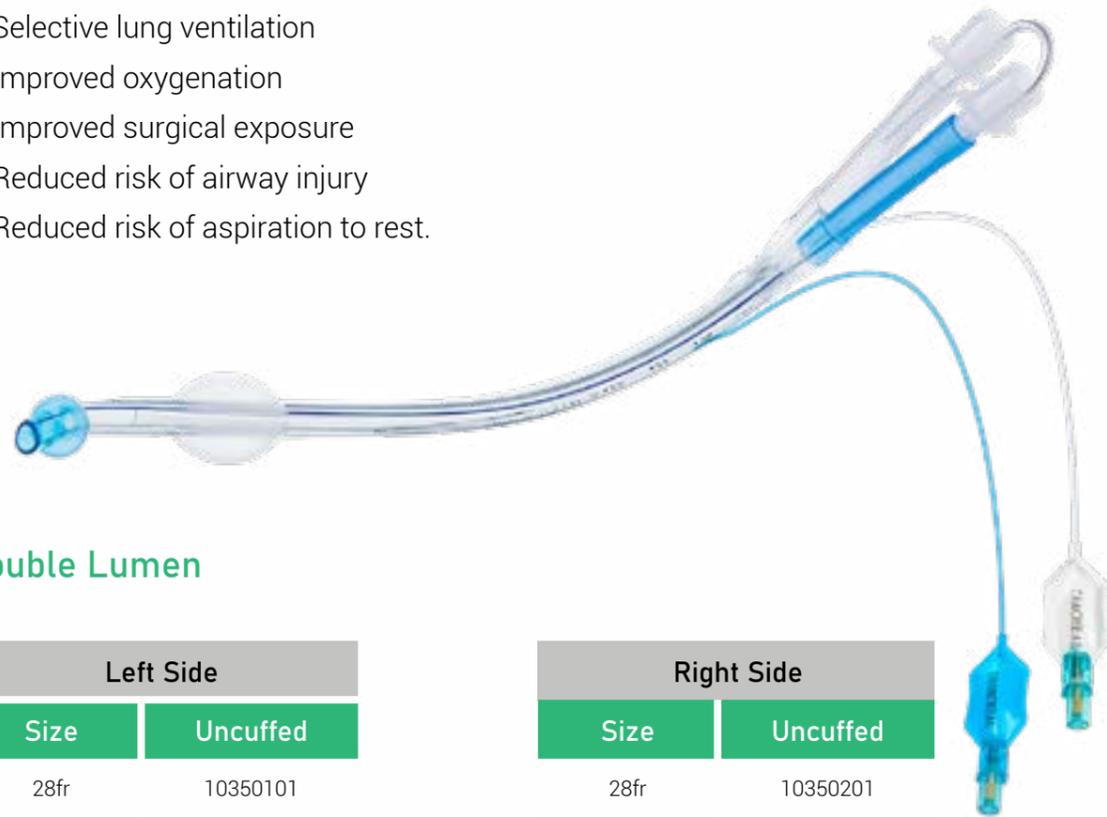


## Endobronchial Tube

- An endobronchial tube is a specialized type of breathing tube that is used during certain surgical procedures or in critically ill patients who require advanced airway management. As the name suggests, the endobronchial tube is designed to be inserted directly into one of the main stem bronchi, which are the large airways that branch off from the trachea and lead to the lungs.
- Endobronchial tubes can be used to isolate one lung from the other, which can be beneficial in certain surgical procedures, such as thoracic surgery. They can also be used in patients with severe lung disease or lung injury to provide selective ventilation to one lung while allowing the other lung to rest.

### Endobronchial Tubes benefits:

1. Selective lung ventilation
2. Improved oxygenation
3. Improved surgical exposure
4. Reduced risk of airway injury
5. Reduced risk of aspiration to rest.



### Double Lumen

Left Side	
Size	Uncuffed
28fr	10350101
32fr	10350102
35fr	10350103
37fr	10350104
39fr	10350105
41fr	10350106

Right Side	
Size	Uncuffed
28fr	10350201
32fr	10350202
35fr	10350203
37fr	10350204
39fr	10350205
41fr	10350206

## Manual Resuscitator

- A manual resuscitator, also known as a bag-valve-mask (BVM), is a handheld device used to assist with artificial ventilation in emergency medical situations. The main function of a manual resuscitator is to provide oxygen to a patient who is not breathing adequately or is not breathing at all.
- The device consists of a bag made of a soft, pliable material (such as silicone or rubber) that is connected to a face mask and an oxygen supply. The mask is placed over the patient's nose and mouth and the bag is squeezed by the medical provider, which forces air into the patient's lungs. The bag then refills with air when the medical provider releases it, allowing for the patient to exhale.

### Disposable PVC

Disposable PVC						
Code	Size (ml)	H2O Pop-off	MDI Port	Oxygen Reservoir Bag	Oxygen Tubing	Air Cushion
10360101	Adult (1600ml)	60cm	+	2500ml	2m	Large #5
10360102	Adult (1600ml)	60cm	+	2500ml	2m	Large #5
10360103	Adult (1600ml)	60cm	+	2500ml	2m	Large #5
10360104	Adult (1600ml)	60cm	+	2500ml	2m	Large #5
10360105	Adult (1600ml)	60cm	+	2500ml	2m	Large #5
10360106	Adult (1000ml)	60cm	+	2500ml	2m	Large #5
10360107	Pediatric (500ml)	40cm	+	2500ml	2m	Large #3
10360108	Pediatric (500ml)	40cm	+	2500ml	2m	Large #3
10360109	Pediatric (280ml)	40cm	+	1000ml	2m	Small #1
10360110	Pediatric (280ml)	40cm	+	1000ml	2m	Small #1
10360111	Neonate (180ml)	40cm	-	-	-	#0

## Reusable Silicone

Reusable Silicone					
Code	Size (ml)	H2O Pop-off	Oxygen Reservoir Bag	Oxygen Tubing	Air Cushion
10360104	Adult (1600ml)	60cm	2500ml	2m	Large #5
10360105	Adult (1600ml)	60cm	2500ml	2m	Large #5
10360106	Adult (1000ml)	60cm	2500ml	2m	Large #5
10360107	Pediatric (500ml)	40cm	2500ml	2m	Large #3
10360108	Pediatric (280ml)	40cm	1000ml	2m	Small #1



## Suction Catheter

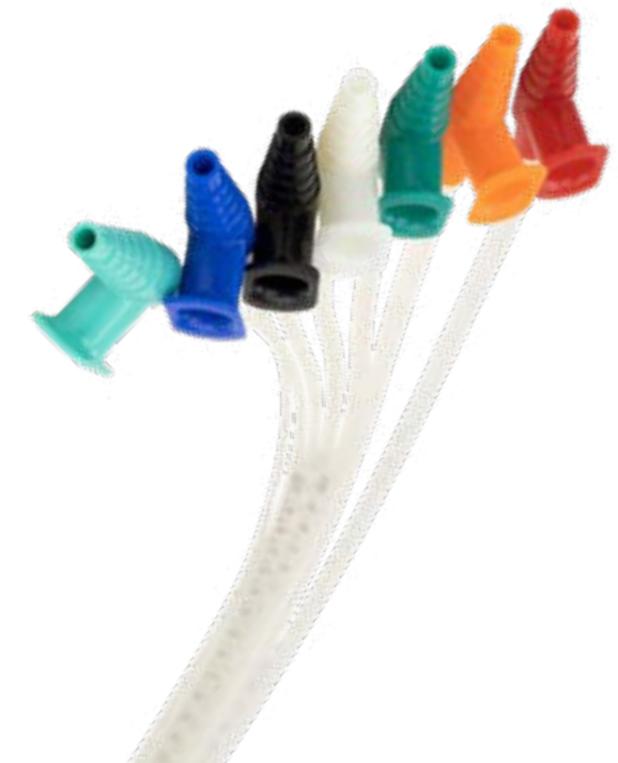
- A suction Catheter is a medical device used to remove secretions, fluids, or foreign objects from a patient's airway or respiratory system. It is a long, flexible tube that is inserted through the patient's nose or mouth and down into their airway or trachea.
- Suction Catheters are typically made of flexible plastic or rubber and are available in various sizes, depending on the patient's age and the intended use. The larger the diameter of the Catheter, the more suction it can deliver.

### Some of the common uses of suction Catheters include:

- 1. Respiratory Distress:** Suction Catheters are used to clear the airway of patients experiencing respiratory distress due to conditions such as asthma, bronchitis, or pneumonia.
- 2. Postoperative Care:** After surgery, patients may have difficulty coughing or clearing their own secretions. Suction Catheters can be used to remove any fluids or secretions that may be obstructing the patient's airway.
- 3. Intensive Care:** Patients in intensive care may be intubated, or have a breathing tube inserted, to assist with breathing. Suction Catheters can be used to clear secretions from the breathing tube and prevent obstruction.
- 4. Cardiopulmonary Resuscitation (CPR):** During CPR, patients may vomit or regurgitate, which can obstruct the airway. Suction Catheters can be used to remove any fluid or debris from the airway during CPR.
- 5. Emergency Airway Management:** In emergency situations, such as choking or near-drowning, suction Catheters can be used to quickly clear the airway and prevent further complications.

### Benefits of Suction Catheter:

1. Clearing airway obstruction
2. Preventing aspiration
3. Improved patient comfort
4. Enhanced patient safety



## Plain Suction Catheter

Plain	
Size	Code
5Fr	10370101
6Fr	10370102
8Fr	10370103
10Fr	10370104
12Fr	10370105
14Fr	10370106
16Fr	10370107
18Fr	10370108
20Fr	10370109



## T-Type Suction Catheter

Plain	
Size	Code
5Fr	10370301
6Fr	10370302
8Fr	10370303
10Fr	10370304
12Fr	10370305
14Fr	10370306
16Fr	10370307
18Fr	10370308
20Fr	10370309



## Cap-Cone (Finger Control) Suction Catheter

Cap-Cone (Finger Control)	
Size	Code
5Fr	10370201
6Fr	10370202
8Fr	10370203
10Fr	10370204
12Fr	10370205
14Fr	10370206
16Fr	10370207
18Fr	10370208
20Fr	10370209



## Y-Type Suction Catheter

Y-Type	
Size	Code
5Fr	10370401
6Fr	10370402
8Fr	10370403
10Fr	10370404
12Fr	10370405
14Fr	10370406
16Fr	10370407
18Fr	10370408
20Fr	10370409



Y-Type Transparent Connector	
Size	Code
5Fr	10370501
6Fr	10370502
8Fr	10370503
10Fr	10370504
12Fr	10370505
14Fr	10370506
16Fr	10370507
18Fr	10370508
20Fr	10370509



# ENDOVASCULAR



# Site Preparation



- Custom Procedure Tray (CPT)

# Site Preparation

Interventional kits are commonly used in cardiology to perform a range of interventional procedures, such as angioplasty, stent placement, and embolization. These kits typically include a range of catheters, guidewires, balloons, stents, embolic agents, and other tools needed to perform these procedures.

Description	Code
Angiography Procedure Kit 1	30040001
Angiography Procedure Kit 2	30040002
Angiography Procedure Kit 3	30040003
Angiography Procedure Kit 4	30040004
Angiography Procedure Kit 5	30040005
Angiography Procedure Kit 6	30040006
Angiography Procedure Kit 7	30040007
Angiography Procedure Kit 8	30040008
Angiography Procedure Kit 9	30040009
Angiography Procedure Kit 10	30040010



## Key components of an interventional kit:

- Catheters:** These are thin, flexible tubes that are used to access the heart and blood vessels during interventional procedures.
- Guidewires:** These are thin, flexible wires that are used to guide the catheter to the site of the blocked or narrowed artery.
- Balloons:** These are small, inflatable devices that are used to widen the blocked or narrowed artery by pressing against the artery walls.
- Stents:** These are small, mesh-like devices that are inserted into the narrowed artery to help keep it open.
- Embolic agents:** These are materials, such as coils or particles, that are used to block or restrict blood flow to certain areas of the heart or blood vessels.
- Contrast agents:** These are special dyes that are used to enhance the visibility of the blood vessels during imaging tests, such as angiograms.

Interventional kits are an important tool, which helping to improve patient outcomes and quality of life by providing effective treatment for blocked or narrowed arteries with minimal invasiveness and reduced risk of complications.

## Angio KIT 1

Item	Product description
1	Image intensifier bag (Nose type) 108 x 50 x 80 cm
2	Image intensifier cover 75 x 80 cm
3	Image intensifier cover 90 x 90 cm
4	Bowl transparent 500 ml
5	Universal clamp
6	Guide wire bowl blue 2500ml
7	Syringe Omnifix 10 ml LL
8	Syringe Omnifix 10 ml, LS
9	Syringe Omnifix 5 ml, LS
10	Puncture needle 1,3 x 70 mm, 18G
11	Sterican 0,90 x 40 mm, 20G, yellow
12	Sterican 0,70 x 30 mm, 22G, black
13	Bowl 120 ml transparent
14	Bowl 250 ml transparent
15	Swab balls plum size
16	Gauze pad 10 x 10 cm
17	Coat size. XL
18	Angio drape 240 x 380 cm, 4 holes
19	Lamp cover
20	Guide wire J3FC-FS 150-035
21	Cutfix scalpel Fig. 11
22	Image intensifier cover 35 x 70 cm
23	Image intensifier cover 120 x 120 cm
24	Cover drape 150 x 90 cm
25	Cover drape 152 x 90 cm

## Angio KIT 2

Item	Product description
1	Wrap drape 137 x 137 cm
2	Surgical drape 45 x 45 cm, 6-ply, with x-ray
3	Image intensifier cover 35 x 70 cm
4	Image intensifier bag 100 x 100 cm
5	Incision foil 30 x 26 cm
6	Tray 25,0 x 13,7 x 5,0 cm
7	Image intensifier cover 140 x 140 cm
8	Universal clamp
9	Cutfix scalpel Fig. 11



## Angio KIT 3

Item	Product description	Qty
1	Instruments table cover 150 x 240 cm	1
2	Angiography drape 240 x 370 cm	1
3	Adhesive drape 95 x 90 cm	1
4	Tray translucent 21 x 14 x 4,5 cm	1
5	Non-woven swabs 10 x 10 cm, 4 plies	35
6	O.R. towel 45 x 60 cm, green, PP X-ray thread, Texart T	2
7	Fluid waste bowl	1
8	Guidewire bowl 2000 ml	1
9	High pressure extension line 30 cm, 500 psi	1
10	High pressure extension line 150 cm, 500 psi	1
11	Medical equipment cover 80 x 70 cm	2
12	Medical equipment cover 100 x 90 cm	1
13	Surgical bowl translucent 1000 ml	2
14	Luer-Lock syringe 20 ml	2
15	Luer-Lock syringe 10 ml	2
16	Luer-Lock syringe 3 ml	2
17	Hypodermic needle 25 G x 5/8"	1
18	Hypodermic needle 20 G x 1 1/2"	2
19	3-Way high pressure stopcock	1
20	Scalpel no:11	1
21	Halstead mosquito forceps	1
22	Transparent dressing 7 x 5 cm	1
23	Towel clamp	1
24	Foam applicator	1
25	Sharps disposal pad	1
26	Medical equipment cover 11 x 190 cm	1
27	Drawsheet 100 x 330 cm	1
28	Surgical gown XL	1
29	Surgical gown L	1
30	Needle holder Mayo-Hegar	1
31	Hand towel 32 x 30 cm	4

## Angio KIT 4

Item	Product description	Qty
1	Scalpel no.11	1
2	Guidewire bowl 2000 ml	1
3	Surgical bowl blue 250 ml	1
4	Medical equipm. Cover 80 x 70 cm	1
5	Instrum. Table cover 150 x 200 cm	1
6	Medical equipm. Cover 100 x 90 cm	1
7	Angiography drape 220 x 350 cm	1
8	Transparent dressing 10 x 12 cm	1
9	Halstead mosquito forcep	1
10	Medical equipm. Cover 80 x 95 cm	2
11	Texart S - swab 10 x 20 cm X-ray	60
12	IV catheter 16 G(with wing, with port)	1
13	Arterial needle 18 G x 70 mm	1
14	Towel clamp	1
15	IV administration set	1
16	Surgical bowl blue 1000 ml	1
17	Surgical bowl blue 500 ml	1
18	1-way high pressure stopcock	1
19	O.R. towel 45 x 60 cm, green, PP X-ray thread, Texart T	1
20	Surgical gown L	1
21	Surgical gown XL	1
22	Hand towel 32 x 30 cm	4
23	Needle holder Mayo-Hegar	1
24	Luer Lock syringe 3 ml	1
25	Hypodermic needle 19 G x 1 1/2"	1
26	Luer Lock syringe 20 ml	1
27	Luer Lock syringe 10 ml	1
28	Luer Lock syringe 5 ml	1
29	Hypodermic needle 25 G x 5/8"	1
30	Hypodermic needle 21 G x 1 1/2"	1
31	BAGS 20 x 30 cm	1

## Angio KIT 5

Item	Product description	QTY
1	Instruments table cover 150 x 200 cm	1
2	Tray 30 x 40 x 10 cm	1
3	High pressure extension line 120 cm	1
4	Fluid waste bowl	1
5	Surgical Bowl translucent 250 ml	2
6	Hypodermic needle 25 G x 5/8"	1
7	Hypodermic needle 21 G x 2"	1
8	3-Way high pressure stopcock	1
9	Medical equipment cover 80 x 100 cm	1
10	Texart S - laparotomy swab 10 x 40 cm X-ray	20
11	Slip tip syringe 10 ml	2
12	Luer Lock syringe 10 mL Luer Lock syringe 10 ml	1
13	Kocher forcep	2
14	Scalpel no:11	1
15	Foam applicator	1
16	Medical equipment cover 80 x 170 cm	2
17	Medical equipment cover 100 x 90 cm	2
18	Angiography drape 220 x 300 cm	1
19	Genital cover 38 x 45 cm	1
20	Hand towel 33 x 30 cm	2
21	Reinforced surgical gown XL	3
22	Hand towel 32 x 30 cm	6

## Angio KIT 6

Item	Product description	QTY
1	Instruments table cover 150 x 200 cm	1
2	Angiography drape 240 x 370 cm	1
3	Non-woven swabs 10 x 10 cm, 4 plies	20
4	Medical equipment cover 80 x 95 cm	1
5	Hand towel 33 x 30 cm	2
6	Guidewire bowl 2000 ml	1
7	Transparent dressing 12,5 x 10 cm	1
8	Surgical bowl blue 250 ml	2
9	Hypodermic needle 25 G x 5/8"	1
10	Hypodermic needle 20 G x 1 1/2"	1
11	Medical equipment cover 80 x 70 cm	1
12	Slip tip syringe 5 ml	1
13	Slip tip syringe 10 ml	1
14	Eccentric tip syringe 20 ml	1
15	Arterial needle 18G x 70 mm	1
16	Towel clamp	3
17	Scalpel no:11	1
18	Foam applicator 17 cm	1
19	Sharps disposal pad	1
20	Nitrile gloves L	1
21	Surgical gown L	2
22	Hand towel 32 x 30 cm	4

## Angio KIT 7

Item	Product description	QTY
1	Table cover 100 x 150 cm	1
2	Fenestrated adhesive drape 75 x 90 cm	1
3	Surgical bowl translucent 250 ml	3
4	Nonwoven swab, 4 plies	40
5	Needle 20 G x 38 mm	1
6	Medical equipment cover 100 x 90 cm	2
7	Hand towels 32 x 30 cm	2
8	Angiography drape 220 x 300 cm	1
9	Sponge forceps	1
10	Gauze balls (Dia 50 mm)	4
11	Syringe 10 ml	2
12	Arterial needle 18 G x 70 mm	1
13	Surgical gown , XL	1

## Angio KIT 8

Item	Product description	QTY
1	Instruments table cover 150 x 200 cm	1
2	Surgical gown 150 cm, XL	2
3	Graduated kidney dish 700 ml, blue	1
4	Compress gauze 10 x 10 cm 16 ply	30
5	Abdominal sheet 45 x 45 cm, 4 layers, green	2
6	Guidewire bowl, 2500 ml	1
7	Medical equipment cover 100 x 100 cm	1
8	Medical equipment cover 110 x 80 cm	1
9	Syringe 20 ml, Luer	1
10	Syringe 10 ml, green , Luer	2
11	Syringe 20 ml, Luer	1
12	Angiography syringe 10 ml	1
13	Hypodermic needle 20 G, yellow	2
14	Puncture needle 18 G	1
15	Gauze bowl 250 ml, blue	1
16	Gauze bowl 250 ml, transparent	1
17	Scalpel no.11	1
18	Extension tube 1200 psi, 120 cm	1
19	Manifold set	1
20	Angiography drape 150 + 70 x 360 cm	1



## Angio KIT 9

Item	Product description	Qty
1	Guidewire Bowl 120	1
2	Syringe 3 ml	3
3	Syringe 10 ml	6
4	Syringe 12 ml - 3 rings	1
5	Syringe 20 ml	2
6	Syringe 5 ml	3
7	Table Cover 150 X 180 cm	1
8	Skin Marker	1
9	Angio Drape 370 X 250 cm, 4 Holes	1
10	Bowl 250 ml	5
11	Bowl 500 ml	1
12	Kidney Bowl , 700 ml	2
13	Transparent Bowl 120 ml	1
14	Hypodermic Needle 18 G	2
15	Hypodermic Needle 21 G	3
16	Hypodermic Needle 23 G	2
17	Hypodermic Needle 25 G	2
18	Puncture Needle 18 G X 7 cm	1
19	Needle Holder Forcep	1
20	Blue Towel	5
21	Scalpel No. 11	1
22	Mainfold 3 Port Right Hand OFF	1
23	4 Way Stopcock OFF	1
24	Infusion Set 180 cm	2
25	High Pressure Line Connecting Tube 75 cm M/F	1
26	Sponge Stick	3
27	Clamp of Towel	5
28	Laparotherapy Gauze 50 X 50 cm 4 Ply	7
29	Gauze 10X10 CM, 16 Ply	40
30	Reinforced Gown XL with Towel	2
31	Disposable Scissor	1
32	Instrument Cover 100 X 100 cm	1
33	Blue Tray 23X31X7 cm	1
34	High Pressure Line PVC 180 cm LLM/F	1

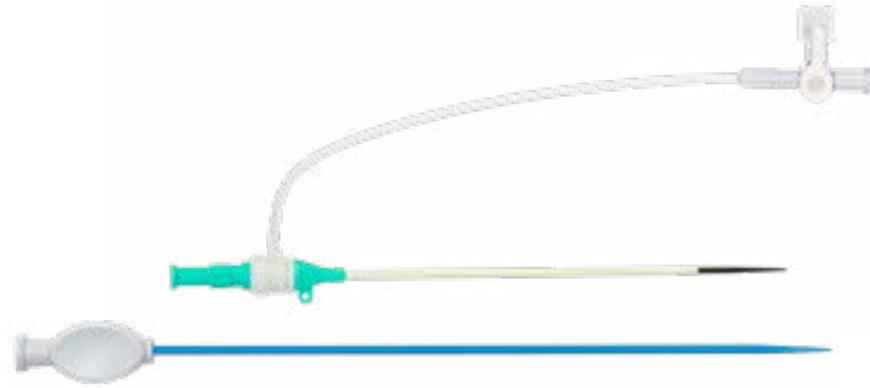
## Angio KIT 10

Item	Product description	Qty
1	Table cover 230x 150 cm	1
2	Hand Towel	2
3	Surgical gown reinforced, L	1
4	Surgical gown reinforced, XL	1
5	Label set	2
6	Gauze swabs 10 x 10 cm 12 ply	40
7	Introducer needle 18 G x 70 mm	1
8	Syringe 10 ml L/S	3
9	Needle 21 G x 38 mm	1
10	Needle 18 G x 38 mm	1
11	Scalpel no.11	1
12	Stainless steel scissors S/B	1
13	Artery forceps straight	1
14	Blue half deep tray	1
15	Lead cover, L	1
16	Flouro cover, M (40" dia)	2
17	Specimen container w/Lid 120 ml	1
18	Bowl 500 ml	2
19	Ring basin 6000 ml	1
20	Angiography drape 350 x 220 cm with femoral and radial fenestrations	1
21	O.R Towel	5
22	Absorbent towel	2
23	Guidewire J tip 0.035" x 145cm	1
24	Pressure monitoring line 20"	1
25	Pressure monitoring line 72"	1
26	Contrast media line	1
27	IV admin line	1

# Access



# Access



Radial and femoral sheaths are two common types of introducer sheaths used in interventional procedures. Here are some comparisons between radial and femoral sheaths:

1. **Access site:** Radial sheaths are placed in the radial artery in the wrist, while femoral sheaths are placed in the femoral artery in the groin.
2. **Size:** The radial artery is smaller than the femoral artery, which means that smaller catheters and instruments are typically used with radial sheaths. Femoral sheaths can accommodate larger catheters and instruments.

## Introducer Sheath

- The introducer sheath is very good and revolutionary medical tool. It helps ease even insertion into the vessels. The hemostasis valve decreases blood leakage during the procedure. It helps in facilitating, placing and, cancellation of devices.
- An introducer sheath is a medical device used during various interventional procedures in which catheters or other medical instruments need to be inserted into the body. It is a thin, hollow tube made of flexible material, such as plastic or silicone, that is inserted into a blood vessel or other body cavity to provide access for the catheter or instrument.

Product Line	Sheath Dimensions	Guidewire Dimensions	Scalpel	Introducer Needle	Code
Femoral Sheath	6Fx11cm	0.035"x45cm	Included	18G	30011101
Radial Sheath	6Fx11cm	0.021"x45cm	Included	21G	30012101

- The introducer sheath is typically inserted through a small incision in the skin and then threaded through the blood vessel to the site where the procedure is being performed. Once in place, the sheath provides a stable platform for the catheter or instrument to be advanced through, reducing the risk of damage to the blood vessel or surrounding tissues.
- Introducer sheaths come in a variety of sizes and shapes, depending on the specific procedure being performed and the size of the catheter or instrument that will be inserted. They are commonly used in procedures such as angiography, cardiac catheterization, and electrophysiology studies.
  - Introducer sheath benefits:
    1. **Reduced trauma**
    2. **Improved safety**
    3. **Shorter procedure times**
    4. **Improved patient comfort**



**The use of introducer sheaths can lead to improved outcomes for patients undergoing interventional procedures, reducing the risk of complications such as bleeding, hematoma, or infection.**

## Guidepro: Standard Sheath

### Femoral Sheath

Sheath Dimensions	Guidewire Dimensions	Scalpel	Introducer Needle	Code
5Fx11cm	0.038"x45cm	Included	18G	30011201
6Fx11cm	0.038"x45cm	Included	18G	30011202
7Fx11cm	0.038"x45cm	Included	18G	30011203
8Fx11cm	0.038"x45cm	Included	18G	30011204
5Fx11cm	0.035"x40cm	Included	18G	30011205
6Fx11cm	0.035"x40cm	Included	18G	30011206
7Fx11cm	0.035"x40cm	Included	18G	30011207

### Radial Sheath

Sheath Dimensions	Guidewire Dimensions	Scalpel	Introducer Needle	Code
5Fx8cm	0.021"x45cm	Included	21G	30012201
6Fx8cm	0.021"x45cm	Included	21G	30012202
7Fx8cm	0.021"x45cm	Included	21G	30012203
5Fx11cm	0.021"x45cm	Included	21G	30012204
6Fx11cm	0.021"x45cm	Included	21G	30012205
7Fx11cm	0.021"x45cm	Included	21G	30012206

## Proset: Hydrophilic Sheath

- A hydrophilic introducer sheath is a type of medical device used during interventional procedures that require access to the body's blood vessels. It is a specially coated sheath that is designed to reduce friction between the sheath and the catheter, making it easier to insert the catheter through the blood vessel.
- The hydrophilic coating is typically made of a hydrogel material that absorbs water, allowing the sheath to become slippery and easier to advance through the blood vessel, which can help to reduce the risk of vascular injury.
- Hydrophilic introducer sheaths are commonly used in interventional cardiology and radiology procedures, such as angiography, embolization, and stent placement. They can be used with various types of catheters, including diagnostic catheters, guide catheters, and therapeutic catheters.

### Femoral Sheath

Sheath Dimensions	Guidewire Dimensions	Scalpel	Introducer Needle	Code
5Fx11cm	0.038"x45cm	Included	18G	30011301
6Fx11cm	0.038"x45cm	Included	18G	30011302
7Fx11cm	0.038"x45cm	Included	18G	30011303

### Radial Sheath

Sheath Dimensions	Guidewire Dimensions	Scalpel	Introducer Needle	Code
5Fx8cm	0.021"x45cm	Included	21G	30012301
6Fx8cm	0.021"x45cm	Included	21G	30012302
7Fx8cm	0.021"x45cm	Included	21G	30012303
5Fx11cm	0.021"x45cm	Included	21G	30012304
6Fx11cm	0.021"x45cm	Included	21G	30012305
7Fx11cm	0.021"x45cm	Included	21G	30012306



Some of the benefits of using a hydrophilic introducer sheath include:

1. **Reduced friction:** Making it easier to insert the catheter through the blood vessel.
2. **Improved safety:** The reduced friction can help to reduce the risk of vascular injury during the procedure.
3. **Improved patient comfort:** It can help to reduce patient discomfort and pain during the procedure.
4. **Improved procedural success rates:** The reduced friction and improved ability can help to improve the success rates of interventional procedures.



## Swift Sheath: Hydrophilic Super Sheath

Designed for Ease of Entry and Reduced Trauma

### 1. Smooth Transitions:

- Smooth transitions facilitate ease of entry with lower insertion force
- Improved kink resistance and lubricity enhance pushability while maintaining device integrity
- Long, gradually tapered tip reduces potential for vessel trauma

### 2. Excellent Catheter Passage:

- Silicone-coated valve and smooth inner surface promote device passage
- Tricuspid valve design promotes hemostasis

### 3. Ease of Use:

- Innovative dilator/hub twist-lock for safety and security during insertion
- Translucent hub allows visibility
- Rotating suture wing allows for sheath securement



## Radial Sheath

Sheath Dimensions	Guidewire Dimensions	Introducer Needle	Code
5Fx8cm	0.021"x45cm	20G	30012401
6Fx8cm	0.021"x45cm	20G	30012402
7Fx8cm	0.021"x45cm	20G	30012403
5Fx8cm	0.025"x45cm	20G	30012404
6Fx8cm	0.025"x45cm	20G	30012405
7Fx8cm	0.025"x45cm	20G	30012406
5Fx11cm	0.021"x45cm	20G	30012407
6Fx11cm	0.021"x45cm	20G	30012408
7Fx11cm	0.021"x45cm	20G	30012409
5Fx11cm	0.025"x45cm	20G	30012410
6Fx11cm	0.025"x45cm	20G	30012411
7Fx11cm	0.025"x45cm	20G	30012412
5Fx8cm	0.021"x45cm	22G	30012413
6Fx8cm	0.021"x45cm	22G	30012414
7Fx8cm	0.021"x45cm	22G	30012415
5Fx8cm	0.025"x45cm	22G	30012416
6Fx8cm	0.025"x45cm	22G	30012417
7Fx8cm	0.025"x45cm	22G	30012418
5Fx11cm	0.021"x45cm	22G	30012419
6Fx11cm	0.021"x45cm	22G	30012420
7Fx11cm	0.021"x45cm	22G	30012421
5Fx11cm	0.025"x45cm	22G	30012422
6Fx11cm	0.025"x45cm	22G	30012423
7Fx11cm	0.025"x45cm	22G	30012424

**\*Syringes are Optional**

**\*Scalpel is Included**

## Peel Away Sheath

- The Peel-Away Introducer Set is intended for the percutaneous introduction of balloon, electrode and closed or non-tapered end catheters into central and peripheral vasculature, and for nonvascular use.
- Peel-away sheaths are a type of introducer sheath used in interventional procedures that require access to the body's blood vessels. They are designed to simplify the removal of the sheath after the procedure is complete, reducing the risk of complications and improving patient comfort.

Sheath Dimensions	Guidewire Dimensions	Tip Type	Syringes	Introducer Needle	Code
6Fx16cm Dilator 19cm	0.035"x40cm	J3	10ml with luer lock	18G	30013101
7Fx16cm Dilator 19cm	0.035"x40cm	J3	10ml with luer lock	18G	30013102
8Fx16cm Dilator 19cm	0.035"x40cm	J3	10ml with luer lock	18G	30013103
9Fx16cm Dilator 19cm	0.035"x40cm	J3	10ml with luer lock	18G	30013104
10Fx16cm Dilator 19cm	0.035"x40cm	J3	10ml with luer lock	18G	30013105
11Fx16cm Dilator 19cm	0.035"x40cm	J3	10ml with luer lock	18G	30013106
6Fx16cm Dilator 19cm	0.035"x40cm	Straight	10ml with luer lock	18G	30013107
7Fx16cm Dilator 19cm	0.035"x40cm	Straight	10ml with luer lock	18G	30013108
8Fx16cm Dilator 19cm	0.035"x40cm	Straight	10ml with luer lock	18G	30013109
9Fx16cm Dilator 19cm	0.035"x40cm	Straight	10ml with luer lock	18G	30013110
10Fx16cm Dilator 19cm	0.035"x40cm	Straight	10ml with luer lock	18G	30013111
7Fx16cm	0.038"x45cm	J3	Optional	18G	30013112
8Fx16cm	0.038"x45cm	J3	Optional	18G	30013113
9Fx16cm	0.038"x45cm	J3	Optional	18G	30013114
10Fx16cm	0.038"x45cm	J3	Optional	18G	30013115
11Fx16cm	0.038"x45cm	J3	Optional	18G	30013116
12Fx16cm	0.038"x45cm	J3	Optional	18G	30013117

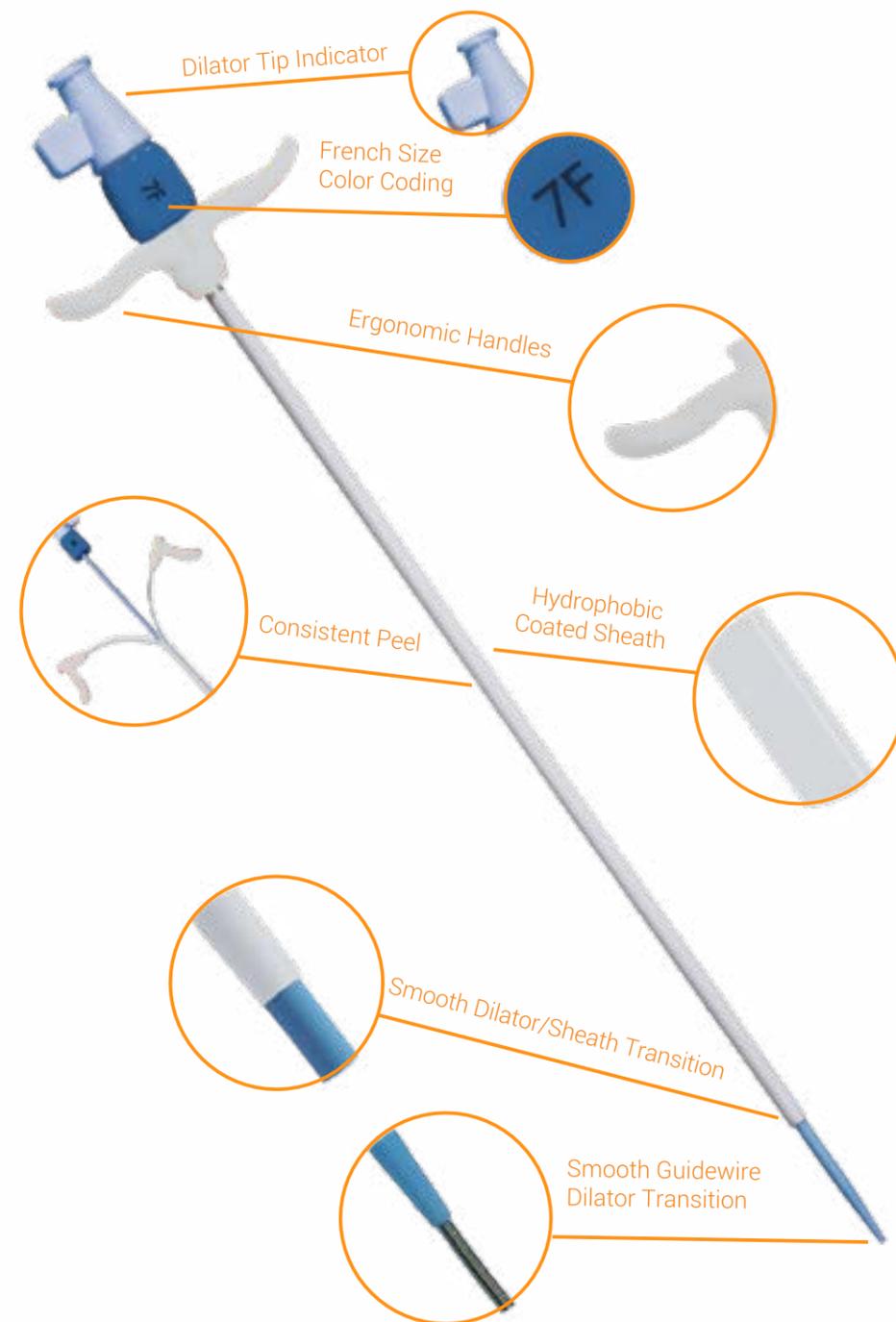
**\*Scalpel is Included**



- A peel-away sheath typically consists of an outer sheath and an inner dilator. The outer sheath is inserted into the blood vessel over a guidewire and advanced to the site of the procedure. The inner dilator is then used to create a larger opening in the skin and blood vessel, allowing the catheter or instrument to be inserted.
- After the procedure is complete, the outer sheath is removed by peeling it away from the skin in a single, smooth motion, leaving the catheter or instrument in place.
- This can help to reduce the risk of bleeding or hematoma formation, as well as reduce the discomfort and pain associated with traditional sheath removal techniques.

#### Benefits peel-away sheath:

1. **Reduced risk of bleeding:** The peel-away sheath can be removed in a single, smooth motion, reducing the risk of bleeding or hematoma formation.
2. **Improved patient comfort:** The peel-away sheath can help to reduce patient discomfort and pain during the procedure and after the sheath is removed.
3. **Improved safety:** The peel-away sheath can help to reduce the risk of complications associated with traditional sheath removal techniques, such as accidental vessel injury or catheter dislodgement.



Peel-away sheaths are commonly used in a variety of interventional procedures, including angiography, embolization, and stent placement. They can also be used with various types of catheters, including diagnostic catheters, guide catheters, and therapeutic catheters.

## Dual Peel Away Introducer (for introduction of 2 probes VDD-DDD)

Sheath Dimensions	Guidewire Dimensions	Tip Type	Syringes	Introducer Needle	Code
2x (10 F x 16 cm), 2x dilator 19 cm	0.035"x40cm	Straight	10ml with luer lock	18G	30013201

### \*Scalpel is Included

- Dual peel introducer sheaths is used in interventional cardiology procedures to provide access to the body's blood vessels.
- The choice between dual peel and single peel introducer sheaths depend on the preference and experience of the operator, as well as the specific needs of the patient and procedure.
- Both dual peel and single peel introducer sheaths can be effective for providing access to the body's blood vessels during interventional cardiology procedures.

	Single peel away introducer	Dual peel away introducer
Number of peels	1	2
Size	Smaller in diameter	Larger in diameter
Procedure	Required slightly less time	Required slightly more time

## Introducer Needles

Size	Straight Entry	Y - Entry
17Gx7cm	30014101	-
18Gx7cm	30014102	30014201
18Gx6.5cm	30014103	30014201
20Gx3.8cm	30014104	30014201
21Gx7cm	30014105	30014201
21Gx5cm	30014106	30014201
21Gx3.8cm	30014107	30014201



- An introducer needle is a medical device used to gain access to a patient's blood vessels, typically for the purpose of inserting a catheter or other medical instrument.
- The function of an introducer needle is to create a small puncture in the skin and blood vessel, allowing the guidewire and the introducer sheath to be inserted.
- Once the needle is in place, a guidewire is inserted through the needle and advanced into the blood vessel.
- The introducer sheath is then inserted over the guidewire into a central vein; using a Seldinger technique

### Seldinger Technique:

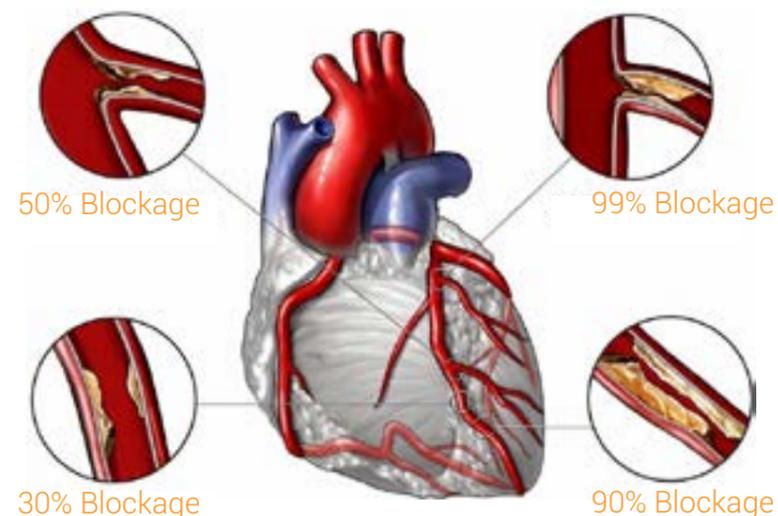
- Needle puncture with subsequent guidewire introduction into vessel through needle; needle exchanged for sheath/catheter over wire
- The Seldinger technique is employed to access a central vein with a 5 or 6 French sheath. **The sheath has a haemostatic valve, which prevents blood loss at the time of lead insertion.**

# Diagnosis



# Diagnosis

Angiography is used to check the health of the blood vessels and how blood flows through them. It can help to **diagnose or investigate** several problems affecting blood vessels, including: atherosclerosis and narrowing of the arteries



## Manifolds

- Transparent stopcock body manifold provides durability and visibility.
- Ergonomic, low-torque stopcock handles designed for easy grip and smooth rotation.
- Airless rotator improves patient safety by minimizing the possibility of trapped air and creates more room for the clinician's fingers.
- Withstand pressure up to 500PSI.
- Available in single, double and triple ports.
- Available options of a kit reduce set up time thus streamlining clinical set up time.



## Standard Manifolds

Description	Pressure Resistance	Stopcock Type	Code
One Port	500 PSI (35 bar)	ON	30020001
One Port	500 PSI (35 bar)	OFF	30020002
Two Ports	300 PSI (20.7 bar)	ON	30020101
Two Ports	300 PSI (20.7 bar)	OFF	30020102
Two Ports	500 PSI (35 bar)	ON	30020103
Two Ports	500 PSI (35 bar)	OFF	30020104
Two Ports	1000 PSI (70 bar)	ON	30020105
Two Ports	1000 PSI (70 bar)	OFF	30020106
Two Ports	300 PSI (20.7 bar)	ON	30020201
Three Ports	300 PSI (20.7 bar)	OFF	30020202
Three Ports	500 PSI (35 bar)	ON	30020203
Three Ports	500 PSI (35 bar)	OFF	30020204
Three Ports	1000 PSI (70 bar)	ON	30020205
Three Ports	1000 PSI (70 bar)	OFF	30020206

## Manifolds with Integrated Transducer

Description	Pressure Resistance	Stopcock Type	Cable Length (cm)	Code
Two Ports	500 PSI (35 bar)	ON	120	30020301
Two Ports	500 PSI (35 bar)	OFF	120	30020302
Three Ports	500 PSI (35 bar)	ON	120	30020401
Three Ports	500 PSI (35 bar)	OFF	120	30020402

## Manifold Kit

Description	Pressure Resistance	Stopcock Type	Code
Manifold 2-ports, Angiography Syringe, High Pressure Tubing, Contrast Media Tubing	500 PSI (35 bar)	ON	30021101
	500 PSI (35 bar)	OFF	30021102
Manifold 3-ports, Angiography Syringe, High Pressure Tubing, Contrast Media Tubing, Infusion Set	500 PSI (35 bar)	ON	30021201
	500 PSI (35 bar)	OFF	30021202



## Pressure Lines

- A pressure line is a fluid-filled tubing system used to measure and monitor fluid pressure in a variety of applications mostly it is used to monitor blood pressure and other vital signs in patients.
- A typical pressure line consists of a flexible tubing that is connected to a pressure sensor at one end and a transducer or monitoring device at the other end.
- The pressure sensor converts the fluid pressure into an electrical signal, which is transmitted through the tubing to the monitoring device.

### Non Braided without Rotating Adaptor

Pressure Resistance	Tube OD	Length (cm)	Code
500 PSI (35bar)	3mm	10	30022101
500 PSI (35bar)	3mm	20	30022102
500 PSI (35bar)	3mm	30	30022103
500 PSI (35bar)	3mm	60	30022104
500 PSI (35bar)	3mm	90	30022105
500 PSI (35bar)	3mm	120	30022106
500 PSI (35bar)	3mm	150	30022107
1200 PSI (70bar)	3.2mm	20	30022108
1200 PSI (70bar)	3.2mm	30	30022109
1200 PSI (70bar)	3.2mm	60	30022110
1200 PSI (70bar)	3.2mm	90	30022111
1200 PSI (70bar)	3.2mm	120	30022112
1200 PSI (70bar)	3.2mm	150	30022113
1200 PSI (70bar)	3.2mm	200	30022114

## Non Braided with Rotating Adaptor

Pressure Resistance	Tube OD	Length (cm)	Code
500 PSI (35bar)	3mm	90	30022201
500 PSI (35bar)	3mm	120	30022202
1200 PSI (70bar)	3.2mm	20	30022203
1200 PSI (70bar)	3.2mm	60	30022204
1200 PSI (70bar)	3.2mm	90	30022205
1200 PSI (70bar)	3.2mm	120	30022206
1200 PSI (70bar)	3.2mm	150	30022207
1200 PSI (70bar)	3.2mm	180	30022208
1200 PSI (70bar)	3.2mm	200	30022209

## Braided with Rotating Adaptor

Pressure Resistance	Tube OD	Length (cm)	Code
1200 PSI (70bar)	3.65mm	20	30022301
1200 PSI (70bar)	3.65mm	60	30022302
1200 PSI (70bar)	3.65mm	90	30022303
1200 PSI (70bar)	3.65mm	120	30022304
1200 PSI (70bar)	3.65mm	150	30022305
1200 PSI (70bar)	3.65mm	180	30022306
1200 PSI (70bar)	3.65mm	200	30022307



Endovascular

## Angiography Syringes

### Angiography Syringe - Ring Plunger (with Rotating Adaptor)

Nominal Capacity	Code
10ml	30023101
12ml	30023102

### Angiography Injector Syringes

Injector	Compatible Model	Syringe Set	Volume	Code
DSA	Angiomat 6000	Single	150ml	30022201
CT	Medrad Stellant D	Dual	200ml/200ml	30022202
CT	Libel-Flarshiem Optivant Dual Head	Dual	200ml/200ml	30022203
CT	Medtron Accutron CT-D	Dual	200ml/200ml	30022204
DSA	Medrad Mark V	Single	150ml	30022205

- Solid and smooth plunger with unique push button make it easy for operation.
- Clear and transparent barrel enables good clinical observation.
- Syringe designed with controlled silicon piston head and manufactured with lubricating technology which makes plunger easy to move & high-pressure resistance
- Silent rubber plug creates a unique smooth feeling during injection with less resistance.
- Rotating and fixed male lure makes it more flexible and stable in connection.
- 0.5ml safety fluid space aims to minimize the potential of air bubbles introduced into catheter.
- Benefits of Angiography Syringes:
  1. Large capacity
  2. High pressure resistance
  3. Precise control
  4. Safety & Compatibility



## Diagnostic Guidewires PTFE Coated

- PTFE (polytetrafluoroethylene) coating is a type of non-stick coating that is commonly used on diagnostic guidewires.
- PTFE is coated over the entire surface of wire before making spring coil to make a consistent coverage as well as smooth and flake resistant PTFE coated guidewire surface. High trackability, Low friction, durability, precise J-type shape memory in tip and appropriate catheter and sheath compatibility are the most significant features of this product.

### J-Tip, Fixed Core, Finger Straight Enable

Diameter (inch/mm)	Length (cm)	Code
0.035 / 0.89	150	30024101
0.035 / 0.89	175	30024102
0.035 / 0.89	200	30024103
0.035 / 0.89	220	30024104
0.035 / 0.89	260	30024105
0.038 / 0.97	150	30024106
0.038 / 0.97	175	30024107
0.038 / 0.97	200	30024108
0.038 / 0.97	220	30024109
0.038 / 0.97	260	30024110

Benefits of PTFE Coated:

- Smooth surface
- Increased lubricity
- Safety
- Improved durability



### Straight Tip, Fixed Core

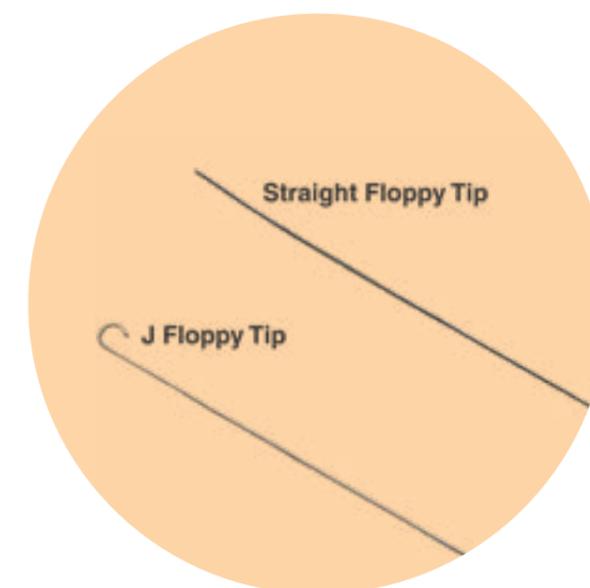
Diameter (inch/mm)	Length (cm)	Code
0.018 / 0.46	150	30024201
0.035 / 0.89	150	30024202
0.035 / 0.89	260	30024203
0.038 / 0.97	150	30024204
0.038 / 0.97	260	30024205

### J-Tip, Movable Core, Finger Straight Enable

Diameter (inch/mm)	Length (cm)	Code
0.032 / 0.81	150	30024301
0.032 / 0.81	200	30024302
0.035 / 0.89	150	30024303
0.035 / 0.89	200	30024304

### J-Tip and Straight Tip , (Ends Flexible, Fixed Core, Finger Straight Enable)

Diameter (inch/mm)	Length (cm)	Code
0.035 / 0.89	150	30024401
0.035 / 0.89	175	30024402
0.035 / 0.89	220	30024403
0.038 / 0.97	150	30024404

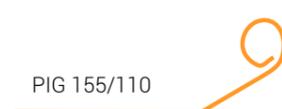
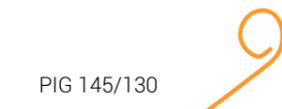


# Diagnostic Catheters

A diagnostic catheter is a medical device used in cardiology to diagnose and evaluate various heart conditions. These catheters are used to access the heart through a blood vessel, typically the femoral artery or vein in the leg, and are used to measure various parameters of the heart, such as pressure, blood flow, and oxygen saturation.

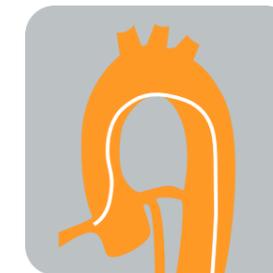
## Pigtail - for Ventriculography (PIG)

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
PIG	110	30025001	30025007	30025013
PIG	130	30025002	30025008	30025014
PIG 145	110	30025003	30025009	30025015
PIG 145	130	30025004	30025010	30025016
PIG 155	110	30025005	30025011	30025017
PIG 155	130	30025006	30025012	30025018



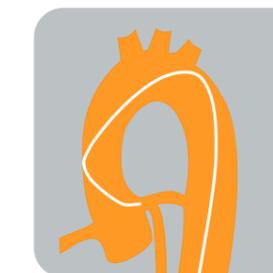
## Judkins - for Left Artery (JL)

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
JL 3.0	100	30025101	30025107	30025113
JL 3.5	100	30025102	30025108	30025114
JL 4.0	100	30025103	30025109	30025115
JL 4.5	100	30025104	30025110	30025116
JL 5.0	100	30025105	30025111	30025117
JL 6.0	100	30025106	30025112	30025118



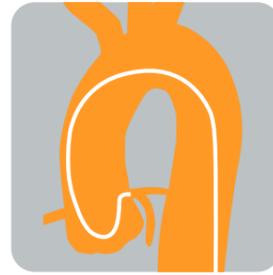
## Judkins - for Right Artery (JR)

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
JR 3.0	100	30025201	30025207	30025213
JR 3.5	100	30025202	30025208	30025214
JR 4.0	100	30025203	30025209	30025215
JR 4.5	100	30025204	30025210	30025216
JR 5.0	100	30025205	30025211	30025217
JR 6.0	100	30025206	30025212	30025218



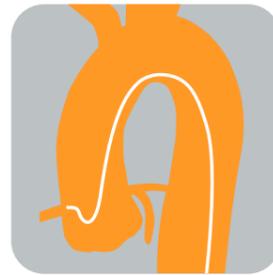
## Amplatz - for Left Artery (AL)

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
AL 1	100	30025301	30025304	30025407
AL 2	100	30025302	30025305	30025408
AL 3	100	30025303	30025306	30025409



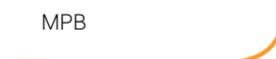
## Amplatz - for Right Artery (ARMOD)

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
AR1MOD	100	30025401	30025404	30025407
AR2MOD	100	30025402	30025405	30025408
ARMOD	100	30025403	30025406	30025409



## Multi Purpose

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
MPA	100	30025501	30025505	30025509
MPA2	100	30025502	30025506	30025510
MPB	100	30025503	30025507	30025511
MPB2	100	30025504	30025508	30025512



## Williams

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
3DS	100	30025601	30025602	30025603



## Duo Packs

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
JL4 / JR4	100	30025701	30025702	30025703
JL4 / 3DS	100	-	30025705	-

## Multi Packs

Shape Description	Length (cm)	Code		
		4 Fr	5 Fr	6 Fr
JL4 / JR3.5 / PIG	100	30025801	30025808	30025815
JL3.5 / JR4 / PIG145	100	30025802	30025809	30025816
JL4 / JR4 / PIG	100	30025803	30025810	30025817
JL4 / JR4 / PIG145	100	30025804	30025811	30025818
3DS / JL4 / PIG145	100	30025805	30025812	30025819
ARMOD / JL4 / PIG145	100	-	30025813	-
3DS / JL4 / PIG	100	-	-	30025821



## Diagnostic Catheters

Shape Discription	Length (cm)	Code	
		4 Fr	5 Fr
BERN	110	30026001	30026003
BERN	125	30026002	30026004
COBRA 2	65	-	30026102



## Angiography Diagnostic Catheters

Shape Discription	Length (cm)	Code
		5 Fr
MPA	90	30027001
SIMMONS 2	90	30027101
VERTEBRAL	90	30027201
BERN	90	30027301



## Benefits of Diagnostic Catheters:

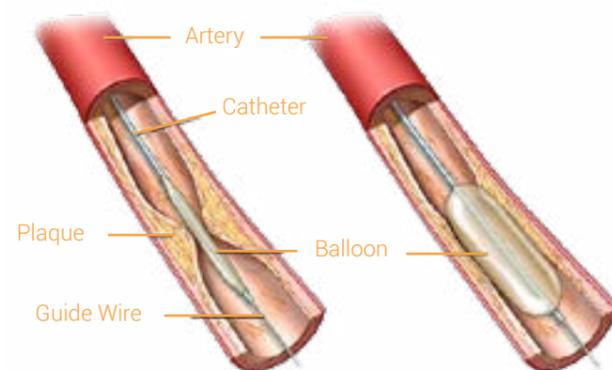
- Flexibility:** Diagnostic catheters are made of flexible materials, such as polyurethane or polyethylene, which allow them to navigate through the complex anatomy of the heart and blood vessels.
- Multiple channels:** Diagnostic catheters typically have multiple channels or ports, which allow for the measurement of multiple parameters simultaneously. For example, a catheter may have separate channels for measuring pressure and blood flow.
- Compatibility:** Diagnostic catheters are compatible with a variety of different imaging systems and devices, such as X-ray machines and ultrasound equipment, which allows for real-time visualization of the heart during procedures.
- Accuracy:** Diagnostic catheters provide accurate and reliable measurements.
- Safety:** Diagnostic catheters are designed with safety features, such as hemostasis valves and pressure sensors, which help reduce the risk of complications during and after procedures.

# Therapeutic



# Therapeutic

Angioplasty is a procedure to improve blood flow in coronary arteries that have become narrow or blocked by plaque. The procedure involves the use of a catheter with a small balloon at the end, which is inserted into the affected blood vessel and inflated to widen the vessel and improve blood flow.

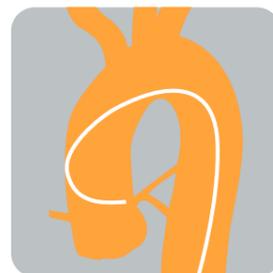


## Guiding Catheter

A guiding catheter is used in cardiac catheterization procedures to access the coronary arteries and perform various diagnostic and therapeutic interventions. The catheter is typically inserted through a blood vessel in the arm or leg and guided to the heart using X-ray or ultrasound imaging.

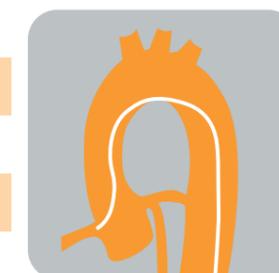
### Extra Backup - Left Artery (XB)

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
XB 3.0	100	30030001	30030004	30030007
XB 3.5	100	30030002	30030005	30030008
XB 4.0	100	30030003	30030006	30030009



### Judkins - for Left Artery (JL)

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
JL 3.0	100	30030101	30030106	30030111
JL 3.5	100	30030102	30030107	30030112
JL 4.0	100	30030103	30030108	30030113
JL 4.5	100	30030104	30030109	30030114
JL 5.0	100	30030105	30030110	30030115



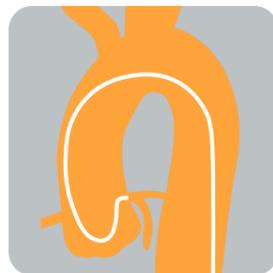
### Judkins - for Right Artery (JR)

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
JR 3.0	100	30030201	30030206	30030211
JR 3.5	100	30030202	30030207	30030212
JR 4.0	100	30030203	30030208	30030213
JR 4.5	100	30030204	30030209	30030214
JR5.0	100	30030205	30030210	30030215



## Amplatz - for Left Artery (AL)

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
AL 1	100	30030301	30030304	30030307
AL 2	100	30030302	30030305	30030308
AL 3	100	30030303	30030306	30030309



AL 1



AL 2

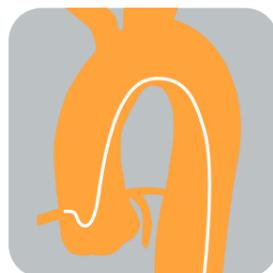


AL 3



## Amplatz - for Right Artery (AR)

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
AR 1	100	30030401	30030404	30030407
AR 2	100	30030402	30030405	30030408
AR 3	100	30030403	30030406	30030409



AR 1



AR 2



AR 3



## Multi Purpose

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
MPA	100	30030501	30030503	30030505
MPB	100	30030502	30030504	30030506



## Williams

Shape Description	Length (cm)	Code		
		5 Fr	6 Fr	7 Fr
3DRC	100	30025601	30025602	30025603



### Benefits of Guiding Catheter:

- Precise placement:** Coronary guiding catheters are designed to be easily to move. This allows for accurate evaluation of the heart and its functions and can help to improve patient outcomes.
- Flexibility:** Coronary guiding catheters are made of flexible materials, allowing for access to difficult-to-reach areas.
- Multiple shapes and sizes:** Coronary guiding catheters come in a variety of shapes and sizes to accommodate different anatomical variations and patient needs, providing greater flexibility and access during cardiac catheterization procedures.
- Real-time imaging:** Coronary guiding catheters are compatible with a variety of different imaging systems and devices, such as X-ray machines and ultrasound equipment, which provides real-time visualization of the heart during procedures.
- Reduced risk of complications:** Coronary guiding catheters are designed with safety features, such as hemostasis valves and pressure sensors, which help to reduce the risk of complications during and after procedures.
- Minimally invasive:** Coronary guiding catheterization procedures reducing the risk of complications and allowing for quicker recovery times.
- Cost-effective:** Compared to other diagnostic and therapeutic procedures, such as open-heart surgery, coronary guiding catheterization procedures can be a cost-effective option for diagnosing and treating certain heart conditions.

Overall, guiding catheters are an important tool in modern cardiology, providing greater precision, flexibility, and safety, with minimal invasiveness and real-time imaging capabilities. These features can help to improve patient outcomes and quality of life, and reduce the need for more invasive or risky procedures.

## Inflation Devices for PTCA

Inflation devices for percutaneous transluminal coronary angioplasty (PTCA) are medical devices used to inflate the balloon catheter during the procedure. The device is used to deliver the precise amount of pressure needed to inflate the balloon and widen the blocked or narrowed arteries.



### Benefits of Inflation device for PTCA:

- 1. Precise control:** Inflation devices are designed to provide precise control over the inflation and deflation of the balloon catheter, allowing for accurate and effective treatment of the blocked or narrowed arteries.
- 2. Compatibility:** Inflation devices are compatible with a variety of different balloon catheters, which allows for greater flexibility in use.
- 3. Easy to use:** Inflation devices are easy to use, with user-friendly controls and intuitive interfaces that can be quickly learned by medical professionals.
- 4. Real-time monitoring:** Inflation devices provide real-time monitoring of the inflation pressure, which allows healthcare providers to adjust the pressure as needed during the procedure.
- 5. Safety:** Inflation devices are designed with safety features, such as pressure relief valves, which help to prevent overinflation and reduce the risk of complications during and after the procedure.

### Inflation Device - Single Package

Brand	Pressure (ATM)	3-Way Stopcock	Code	
			Volume (20 ml)	Volume (30 ml)
Air- Boost	30	without	30031001	-
Ezflate	30	without	30031102	-
Inflate - Pro	30	with	30031203	30031202
Rapid Air	30	without	30031304	-



### Inflation Device - Kit

Brand	Pressure (ATM)	Volume (20ml)	Code (Y-Connector)		
			Push-Pull	Push-Click	Push-Tuohy
Air- Boost	30	20	30032001	30032002	30032003
Ezflate	30	20	30032101	30032102	30032103
Inflate - Pro	30	20	30032201	30032202	30032203
Inflate - Pro	30	20	30032204	30032205	30032206
Rapid Air	30	20	30032301	30032302	30032303

\*with Torque Device (up to 0.022")  
\*with Insertion Tool



## Y-Connector Set

Brand	Insertion Tool	Extension Tube	3-Way Stopcock	Torque Device	
				Plastic Grip	Metal Grip
Push - Pull	with	with	with	30033001	30033002
Push - Click	with	with	with	30033101	30033102
Tuohy Burst	with	with	with	30033201	30033202



# Closure



# Closure

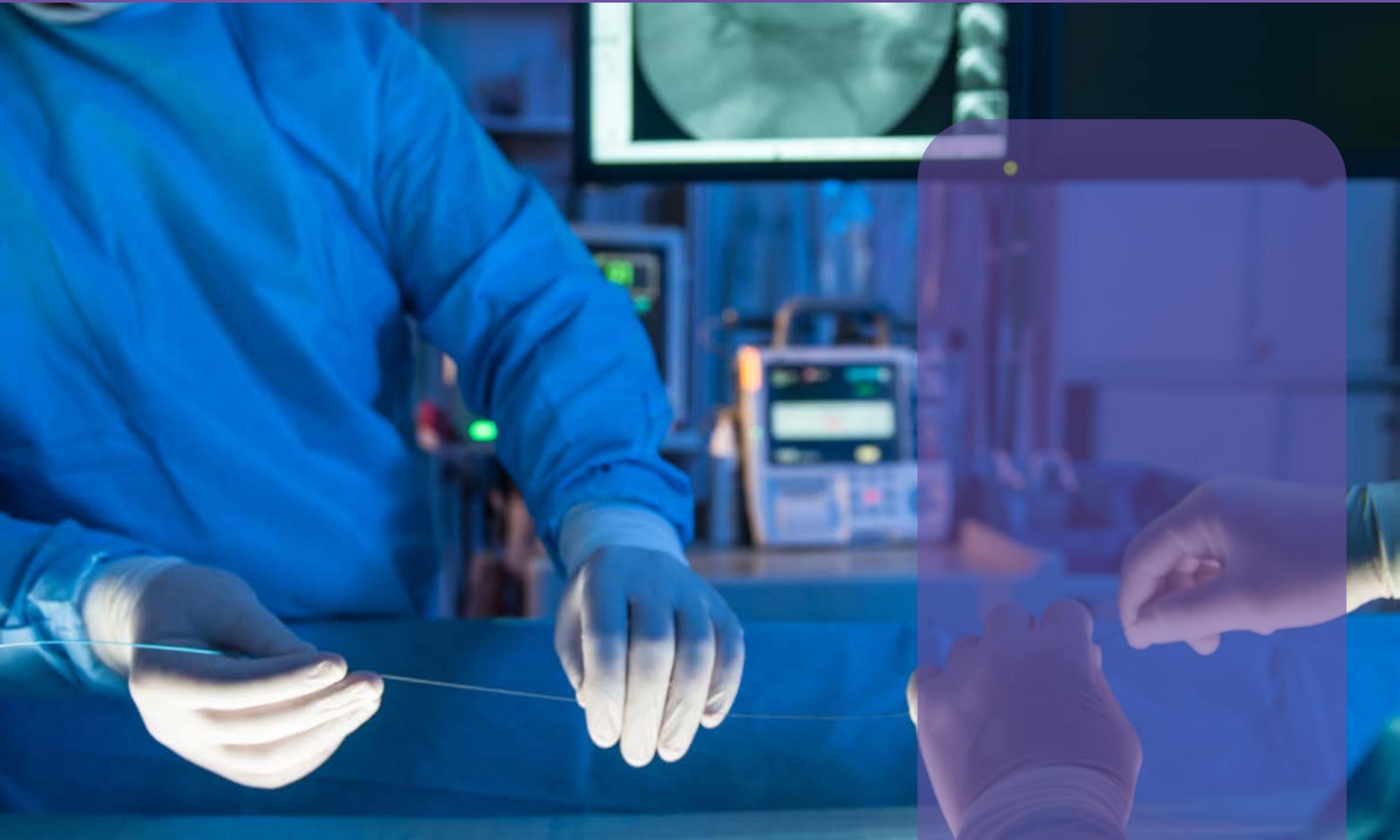
Description	Shape Description	Code
Radial Artery Closure (TR-Band)	Radial Compression Band - Clock Type	30050101
	Radial Compression Band - Inflating Type	30050201

- Radial compression bands and inflating types are both used in cardiac catheterization procedures to achieve hemostasis (stop bleeding) at the puncture site in the radial artery. However, they work in different ways and have some differences in their usage and benefits.
- Radial compression bands, also known as wristbands, are elastic bands that are wrapped around the wrist and tightened to apply pressure to the radial artery, which helps to stop bleeding.
- The bands can be tightened or loosened, allowing for precise control over the amount of pressure applied. Radial compression bands are easy to use, cost-effective, and have a low risk of complications. However, they may be less effective at achieving hemostasis in patients with larger or calcified arteries, or in patients with poor arterial circulation.
- Inflating types, also known as airbags or pneumatic devices, are inflatable cuffs that are placed around the wrist and inflated to apply pressure to the radial artery, which helps to stop bleeding.
- In general, radial compression bands are preferred for routine diagnostic or therapeutic procedures, as they are easy to use, cost-effective, and have a low risk of complications.

Ultimately, the choice between radial compression bands and inflating types depends on the specific patient and procedure, and should be made by the healthcare professional based on their clinical judgment and experience.



# UROLOGY



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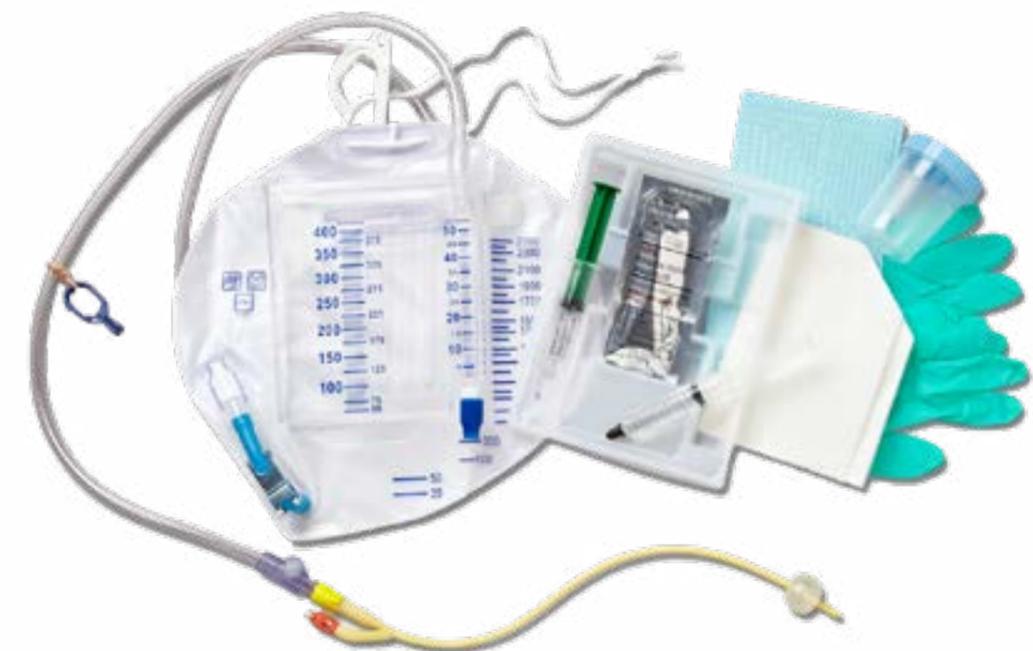


# Catheter Exchange Kits



# Catheter Exchange Kits

Code	Drip Trays	Guaze Swabs	Guaze Compresses	Tweezers	Examination Gloves	Towels	Blocking Medium
40300001	1x Urine Collection Tray	6x Plum Size	2x (7.5 x 7.5 cm)	1x	2x Latex M, Powder-Free in Paper	1x Slit/Perforated Cloth 60 x 60 cm Waterproof. 1x Cover Cloth 60 x 60 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300002	1x Urine Collection Tray	6x Plum Size	2x (7.5 x 7.5 cm)	2x	2x Nitrile L, Powder-Free in Paper	1x Slit/Perforated Cloth 60 x 60 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300003	1x Plastic Kidney Dish 1x Swab Dish	5x Plum Size	2x (7.5 x 7.5 cm)	1x	2x Latex M, Powder-Free in Paper	1x Slit/Perforated Cloth 60 x 60 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300004	1x Plastic Kidney Dish 1x Swab Dish	5x Plum Size	2x (7.5 x 7.5 cm)	1x	2x Nitrile L, Powder-Free in Paper	1x Slit/Perforated Cloth 60 x 60 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300005	1x Urine Collection Tray	4x Plum Size	2x (7.5 x 7.5 cm)	2x	2x Latex M, Powder-Free in Paper	1x Slit/Perforated Cloth 60 x 60 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300006	1x Urine Collection Tray	5x Plum Size	5x (7.5 x 7.5 cm)	1x	2x Nitrile L, Powder-Free in Paper 1x Nitrile M, Powder-Free Put On	1x Slit/Perforated Cloth 50 x 50 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300007	1x Plastic Kidney Dish 1x Swab Dish	4x Plum Size	4x (7.5 x 7.5 cm)	1x	2x Latex M, Powder-Free in Paper	1x Slit/Perforated Cloth 50 x 50 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	-
40300008	1x Urine Collection Tray	6x Plum Size	-	1x	2x Vinyl L , Powder-Free Put On	1x Slit/Perforated Cloth 60 x 60 cm Waterproof. 1x Wrapping Cloth 60 x 60 cm Waterproof.	1x Prefilled Glycerin Syringe 10ml



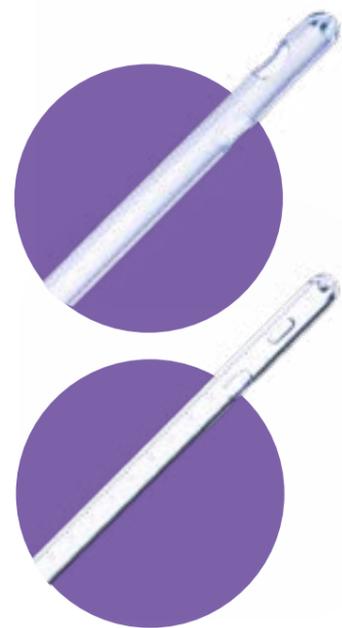
# Drainage Catheter



- 
-

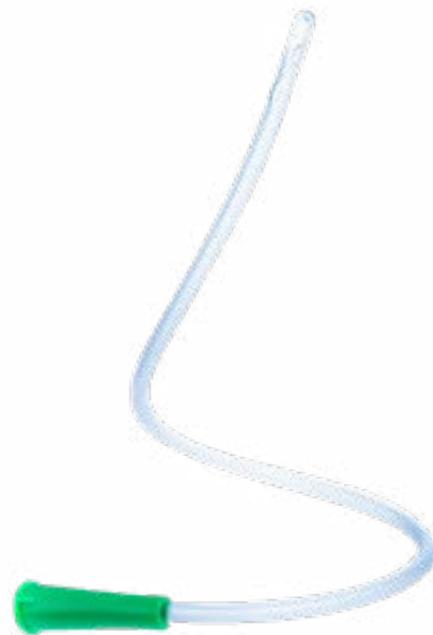
# Urethral Catheter

- A Urinary Catheter is a flexible tube used to empty the bladder and collect urine in a drainage bag.
- The Catheter usually remains in the bladder, allowing urine to flow through it and into a drainage bag.
- There are 2 main types of Urinary Catheter:
  - Intermittent Catheters: these are temporarily inserted into the bladder and removed once the bladder is empty.
  - Indwelling Catheters: these remain in place for many days or weeks, and are held in position by an inflated balloon in the bladder.

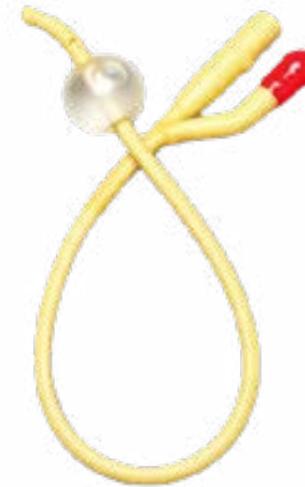
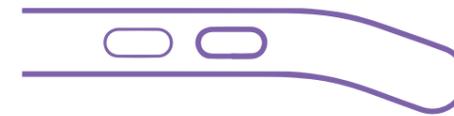


Standard eyes

Atraumatic eyes



- Catheter material: PVC DEHP Free – PVC – PU
- Coat: Uncoated PVC – Hydrophilic coated PVC (PVP based) – Silicone Coat Catheter tip: Straight – Coude tips
- Staggered eyes help maintain tip strength during insertion and promote efficient drainage.
- Short term Catheter use helps decrease infections.
- Color coded adaptors for size identification.
- Non traumatic Catheter eyes for smooth insertion.
- Available for male, female and pediatric.



Coude tips



Straight tips

## Urine Intermittent Catheters

### Regular - Male Type (Length 405 mm)

Size (Fr)	Color	Non - Hydrophilic		Hydrophilic	
		Standard Eyes	Atraumatic Eyes	Standard Eyes	Atraumatic Eyes
6	Green	40111101	-	40112101	-
8	Teal	40111102	40111201	40112102	40112201
10	Black	40111103	40111202	40112103	40112202
12	White	40111104	40111203	40112104	40112203
14	Light Green	40111105	40111204	40112105	40112204
16	Orange	40111106	40111205	40112106	40112205
18	Red	40111107	40111206	40112107	40112206
20	Yellow	40111108	40111207	40112108	40112207
22	Maroon	40111109	40111208	40112109	40112208
24	Blue	40111110	-	40112110	-

## Regular - Female Type (Length 235mm)

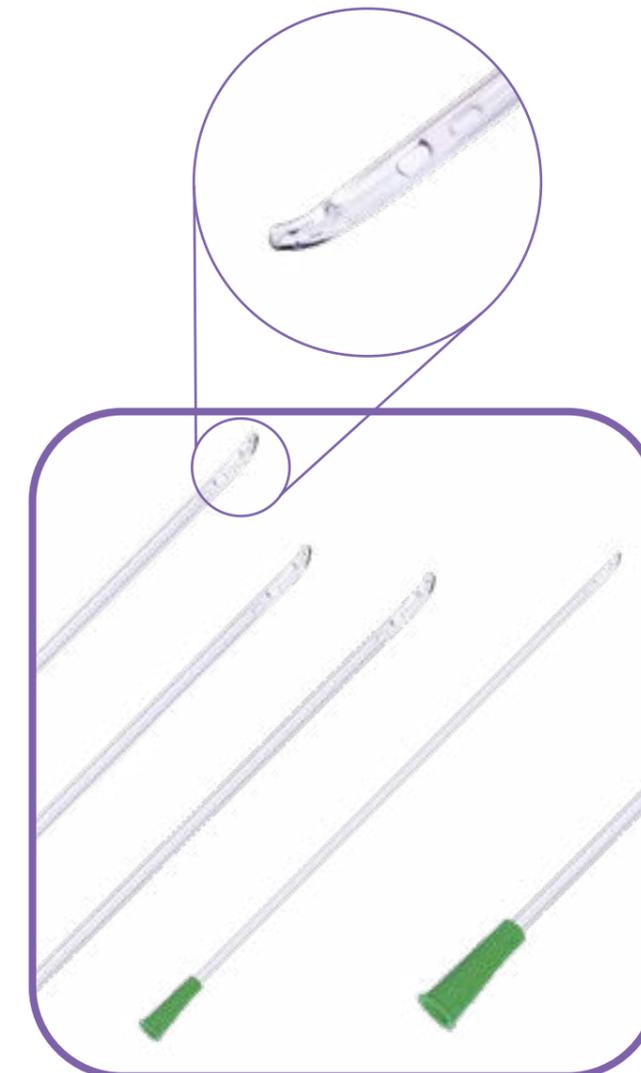
Size (Fr)	Color	Non - Hydrophilic		Hydrophilic	
		Standard Eyes	Atromatic Eyes	Standard Eyes	Atromatic Eyes
6		40113101	-	40114101	-
8		40113102	40113201	40114102	40114201
10		40113103	40113202	40114103	40114202
12		40113104	40113203	40114104	40114203
14		40113105	40113204	40114105	40114204
16		40113106	40113205	40114106	40114205
18		40113107	40113206	40114107	40114206
20		40113108	40113207	40114108	40114207
22		40113109	40113208	40114109	40114208
24		40113110	-	40114110	-

## Nelaton Catheter with Tiemann Tip

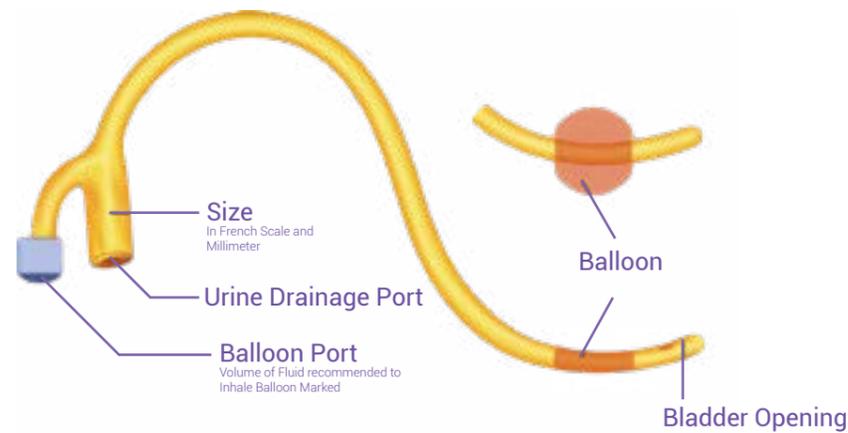
## Features of Nelaton Catheter with Tiemann Tip:

- Soft and flexible material:** The Catheter is made of soft and flexible material, usually latex or Silicone, which makes it comfortable for the patient during insertion and removal.
- Tiemann tip:** The Tiemann tip is a curved tip that is designed to make insertion easier, especially in male patients. It is angled to help navigate through the urethral curve and can reduce discomfort compared to a straight-tipped Catheter.
- Lubrication:** Many Nelaton Catheters with Tiemann tips are pre-lubricated with a hydrophilic coating that makes them easier and more comfortable to insert. This coating can also help reduce the risk of infection by minimizing tissue damage and inflammation.
- Multiple sizes:** Nelaton Catheters with Tiemann tips come in different sizes to fit patients of varying ages and anatomies. The length and diameter of the Catheter vary to accommodate different urethral lengths and widths.

Size (Fr)	Color	Non - Hydrophilic		Hydrophilic	
		Standard Eyes	Atromatic Eyes	Standard Eyes	Atromatic Eyes
10		40113103	40113202	40114103	40114202
12		40113104	40113203	40114104	40114203
14		40113105	40113204	40114105	40114204
16		40113106	40113205	40114106	40114205
18		40113107	40113206	40114107	40114206
20		40113108	40113207	40114108	40114207
22		40113109	40113208	40114109	40114208



# Indwelling Foley Catheter



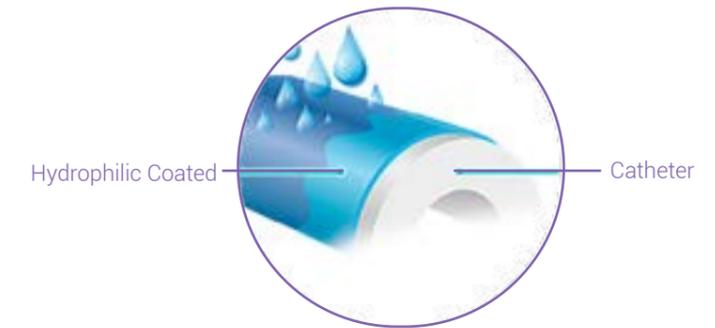
- A Foley Catheter is a common type of indwelling Catheter. It has a soft, plastic or rubber tube that is inserted into the bladder to drain the urine.
- It is available in silicone and latex material besides available for pediatric, females and standard.

## Hydrophilic Coated the Technology:

- Hydrophilic Catheters have a polymer coating that binds to the surface of the Catheter. When the polymer coating is submerged in water, it absorbs and binds the water to the Catheter.
- The Catheter surface becomes smooth and very slippery. This slippery surface remains intact upon insertion into the urethra and maintains lubrication through the length of the urethra.
- The hydrophilic coating is designed to reduce the friction, as the Catheter is inserted with the intention of reducing the risk of urethral damage. It has been suggested that because the hydrophilic Catheters do not require manual lubrication, they are more sterile and thus less likely to cause infection.
- According to International Urology and Nephrology, Hydrophilic coated Catheters are recommended to reduce the side effects of intermittent Catheterization (IC) in patients with bladder dysfunction.
- Compared with non-hydrophilic Catheters, the hydrophilic coated Catheters have positive significance in reducing the incidence of urethral microtrauma and the urethral stricture. However, more studies are warranted for evaluating effect of hydrophilic coated Catheters on the incidence of gross hematuria

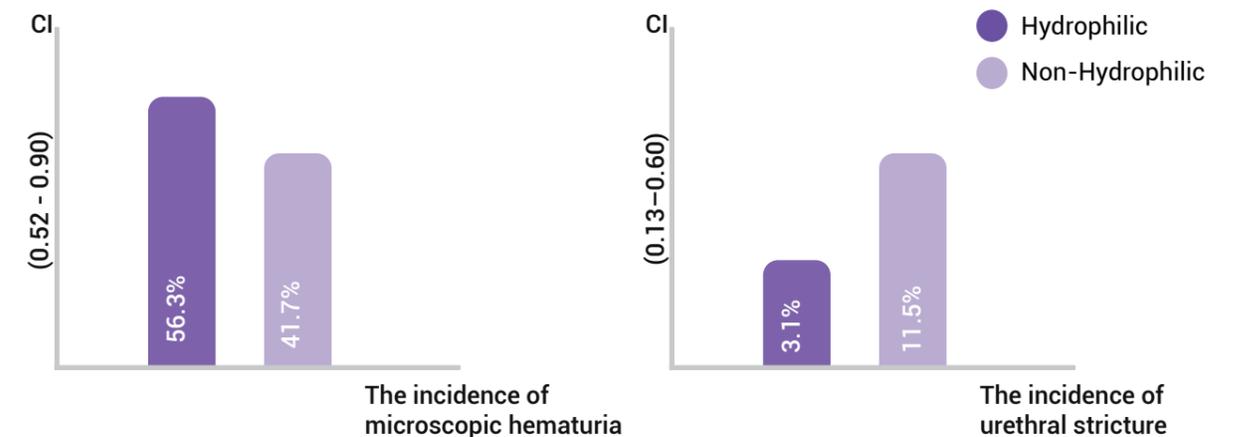
## Benefits of Hydrophilic Catheters:

1. More Convenience
2. Improved Hygiene
3. Fewer Urethral Injuries



- **Effects of hydrophilic coated Catheters on urethral trauma, microtrauma and adverse events with intermittent Catheterization in patients with bladder dysfunction: a systematic review and meta-analysis.**

International Urology and Nephrology (2022)



## Conclusion:

- This meta-analysis supports the benefits of using **hydrophilic coated** Catheters for IC in patients with bladder dysfunction, including **reduced incidence of microscopic hematuria and urethral stricture**.
- The risk of microscopic hematuria with **hydrophilic** Catheters was only 69% of that in non-hydrophilic group.
- Compared with non-hydrophilic Catheters, the **hydrophilic coated** Catheters have **positive significance** in reducing the incidence of urethral microtrauma and the urethral stricture.

## Features:

1. **Optimal eyes:** Smooth, optimal eyes ensuring atraumatic introduction and effective drainage
2. **Pressure resistant balloon:** Easily inflated or deflated for maximum patient safety
3. **Inflation valve:** Choice of hard or soft valve. Ensures balloon is inflated when in use
4. **Reinforced Catheter shaft:** Prevents collapse and for effective suctioning
5. **Strang drainage funnel:** Kink resistance and provides best connection to drainage bag

# 100% Silicone Foley Catheter - Standard

## Adapter Cable:

An adapter cable in urology Catheterization is a cable that connects the Catheter to a monitoring device or other accessory. The adapter cable is typically used in urodynamic testing, a diagnostic procedure that evaluates the function of the lower urinary tract.

## Tips



Standard



Tiemann



Couvelaire



Dufour



Mercier

# 100% Silicone Foley Catheter (Nelaton Tip)

## 2.Way Pediatric

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
6	Red	1.5	310	40121001
8	Black	3-5	310	40121002
10	Grey	3-5	310	40121003

## 2.Way Pediatric (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
6	Red	1.5	310	40122001
8	Black	3-5	310	40122002
10	Grey	3-5	310	40122003

## 2.Way Standard

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	10	400	40121004
14	Green	15	400	40121005
16	Orange	30	400	40121006
18	Red	30	400	40121007
20	Yellow	30	400	40121008
22	Magenta	30	400	40121009
24	Blue	30	400	40121010
26	Red	30	400	40121011

## 2.Way Standard (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	10	400	40122004
14	Green	15	400	40122005
16	Orange	30	400	40122006
18	Red	30	400	40122007
20	Yellow	30	400	40122008
22	Magenta	30	400	40122009
24	Blue	30	400	40122010
26	Red	30	400	40122011

## 2.Way Female

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	10	250	40121012
14	Green	15	250	40121013
16	Orange	30	250	40121014
18	Red	30	250	40121015
20	Yellow	30	250	40121016
22	Magenta	30	250	40121017

## 2.Way Female (Hydrophilic)

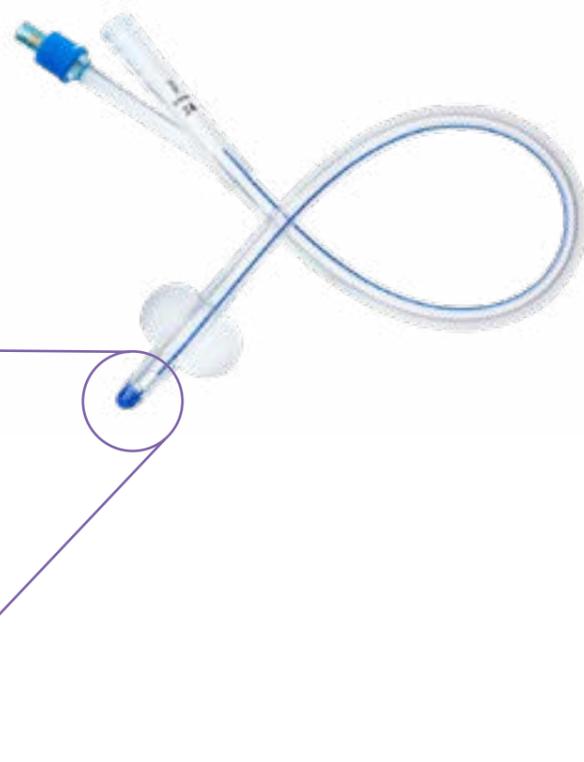
Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	10	250	40122012
14	Green	15	250	40122013
16	Orange	30	250	40122014
18	Red	30	250	40122015
20	Yellow	30	250	40122016
22	Maroon	30	250	40122017

## 3.Way Standard (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
16	Orange	10	400	40122101
18	Red	15	400	40122102
20	Yellow	30	400	40122103
22	Maroon	30	400	40122104
24	Dark Blue	30	400	40122105
26	Light Red	30	400	40122106

## 3.Way Standard

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
16	Orange	10	400	40121101
18	Red	15	400	40121102
20	Yellow	30	400	40121103
22	Maroon	30	400	40121104
24	Dark Blue	30	400	40121105
26	Light Red	30	400	40121106



Standard Tip

## 100% Silicone Foley Catheter (Tieman tip)

## 2.Way Tiemann

Size (Fr)	Color	Length (mm)	Balloon (5ml)
12	White	420	40121201
14	Green	420	40121202
16	Orange	420	40121203

Size (Fr)	Color	Length (mm)	Balloon (10ml)
12	White	420	40121204
14	Green	420	40121205
16	Orange	420	40121206
18	Red	420	40121207
20	Yellow	420	40121208
22	Maroon	420	40121209
24	Dark Blue	420	40121210
26	Light Red	420	40121211

Size (Fr)	Color	Length (mm)	Balloon (15ml)
12	White	420	40121212
14	Green	420	40121213
16	Orange	420	40121214
18	Red	420	40121215
20	Yellow	420	40121216
22	Maroon	420	40121217
24	Dark Blue	420	40121218
26	Light Red	420	40121219

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	420	40121220
18	Red	420	40121221
20	Yellow	420	40121222
22	Maroon	420	40121223
24	Dark Blue	420	40121224
26	Light Red	420	40121225

## 2.Way Tiemann (Hydrophilic)

Size (Fr)	Color	Length (mm)	Balloon (5ml)
12	White	420	40122201
14	Green	420	40122202
16	Orange	420	40122203

Size (Fr)	Color	Length (mm)	Balloon (10ml)
12	White	420	40122204
14	Green	420	40122205
16	Orange	420	40122206
18	Red	420	40122207
20	Yellow	420	40122208
22	Maroon	420	40122209
24	Dark Blue	420	40122210
26	Light Red	420	40122211

Size (Fr)	Color	Length (mm)	Balloon (15ml)
12	White	420	40122212
14	Green	420	40122213
16	Orange	420	40122214
18	Red	420	40122215
20	Yellow	420	40122216
22	Maroon	420	40122217
24	Blue	420	40122218
26	Red-Orange	420	40122219

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	420	40122220
18	Red	420	40122221
20	Yellow	420	40122222
22	Maroon	420	40122223
24	Blue	420	40122224
26	Red-Orange	420	40122225

## 100% Silicone Foley Catheter - IB (Nelaton Tip)

## 2-Way Pediatric

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
10	Black	3-5	300	40121301

## 2-Way Pediatric (Hydrophilic)

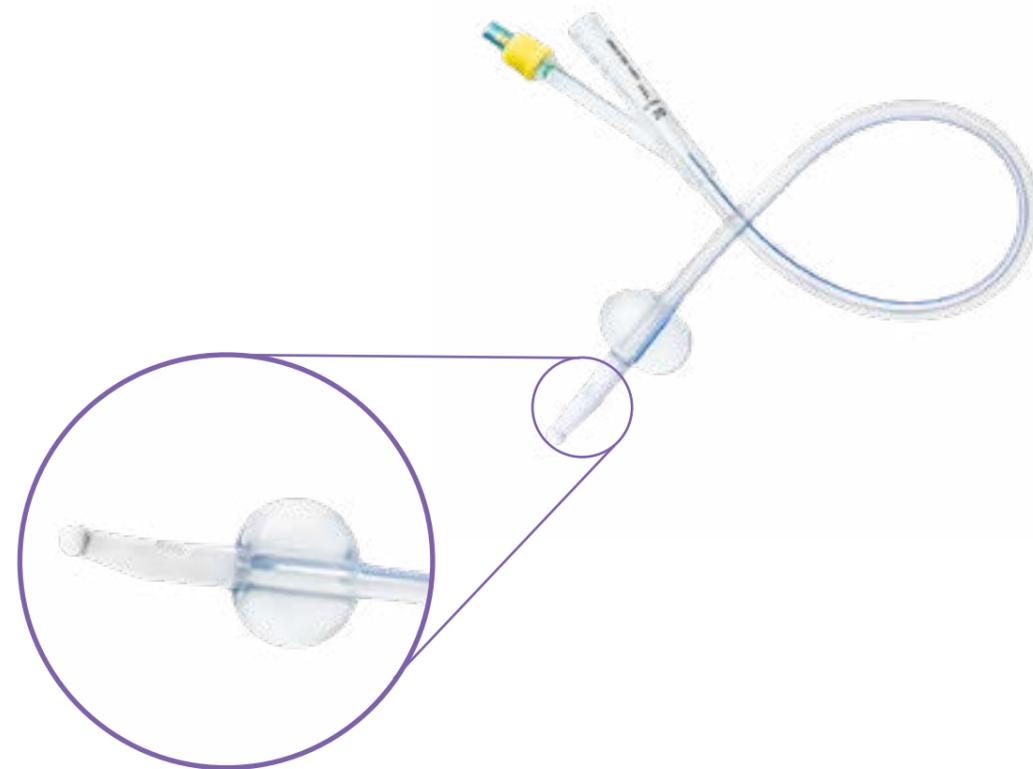
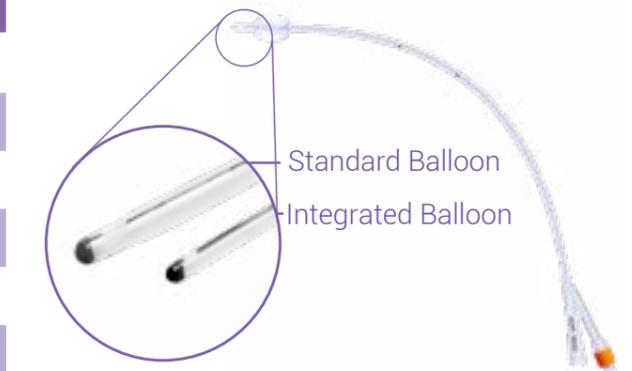
Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
10	Black	3-5	300	40122301

## 2-Way Tiemann

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	5-10	420	40121401
14	Green	5-10	420	40121402
16	Orange	5-10	420	40121403
18	Red	5-10	420	40121404
20	Yellow	5-10	420	40121405
22	Maroon	5-10	420	40121406
24	Blue	5-10	420	40121407

## 2-Way Standard

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	5-10	400	40121302
14	Green	5-10	400	40121303
16	Orange	5-10	400	40121304
18	Red	5-10	400	40121305
20	Yellow	5-10	400	40121306
22	Maroon	5-10	400	40121307
24	Blue	5-10	400	40121308



Tiemann Tip

## 2-Way Standard (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	5-10	400	40121302
14	Green	5-10	400	40121303
16	Orange	5-10	400	40121304
18	Red	5-10	400	40121305
20	Yellow	5-10	400	40121306
22	Maroon	5-10	400	40121307
24	Blue	5-10	400	40121308

## 2-Way Tiemann (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12	White	5-10	420	40121401
14	Green	5-10	420	40121402
16	Orange	5-10	420	40121403
18	Red	5-10	420	40121404
20	Yellow	5-10	420	40121405
22	Maroon	5-10	420	40121406
24	Blue	5-10	420	40121407

## 100% Silicone Foley Catheter-temp. Sensor

It helps in measuring the urine temperature present inside the bladder which further determines the core body temperature. This type of Foley Catheter has a temperature sensor near the tip and a Wire that connects the sensor to the temperature monitor.



### 2-Way

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
8	Black	5	310	40121501
10	Dark Grey	5	310	40121502
12	White	10	400	40121503
14	Green	10	400	40121504
16	Orange	10	400	40121505
18	Red	10	400	40121506
20	Yellow	10	400	40121507
22	Magenta	10	400	40121508
24	Blue	10	400	40121509

### 2-Way (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
8	Black	5	310	40122501
10	Dark Grey	5	310	40122502
12	White	10	400	40122503
14	Green	10	400	40122504
16	Orange	10	400	40122505
18	Red	10	400	40122506
20	Yellow	10	400	40122507
22	Magenta	10	400	40122508
24	Blue	10	400	40122509

### 3-Way

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
16	Orange	30	400	40121510
18	Red	30	400	40121511

### 3-Way (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
16	Orange	30	400	40122510
18	Red	30	400	40122511

### 3-Way (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
20	Red	10	400	40122507
22	Yellow	10	400	40122508
24	Magenta	10	400	40122509

### Adapter Cable (Length (5m))

Model	Applicable Monitor	Code
Phone Plug 6.35mm	GE, Philips, Nihon Kohden	40121901
HP/Philips Round Plug	HP/Philips	40121902
Siemens Round Plug	Siemens	401221903

## 100% Silicone Foley Catheter with Dufour Tip

- The Dufour tip is slightly curved, with 2 sets of large and staggered eyes, which allow high performance drainage and irrigation after surgery.
- It is intended for use by male patient with need for drainage and cleaning of the bladder after surgery.

### 2-Way Dufour

Size (Fr)	Color	Length (mm)	Balloon (20ml)
12	White	430	40121601
14	Green	430	40121602
16	Orange	430	40121603
18	Red	430	40121604
20	Yellow	430	40121605
22	Magenta	430	40121606
24	Blue	430	40121607

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	430	40121608
18	Red	430	40121609
20	Yellow	430	40121610
22	Magenta	430	40121611
24	Blue	430	40121612

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18	Red	430	40121613
20	Yellow	430	40121614
22	Magenta	430	40121615
24	Blue	430	40121616

### 2-Way Dufour (Hydrophilic)

Size (Fr)	Color	Length (mm)	Balloon (20ml)
12	White	430	40122601
14	Green	430	40122602
16	Orange	430	40122603
18	Red	430	40122604
20	Yellow	430	40122605
22	Magenta	430	40122606
24	Blue	430	40122607

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	430	40122608
18	Red	430	40122609
20	Yellow	430	40122610
22	Magenta	430	40122611
24	Blue	430	40122612

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18	Red	430	40122613
20	Yellow	430	40122614
22	Magenta	430	40122615
24	Blue	430	40122616

## 3-Way Dufour

Size (Fr)	Color	Length (mm)	Balloon (20ml)
16		430	40121622
18		430	40121623
20		430	40121624
22		430	40121625
24		430	40121626

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16		430	40121627
18		430	40121628
20		430	40121629
22		430	40121630
24		430	40121631

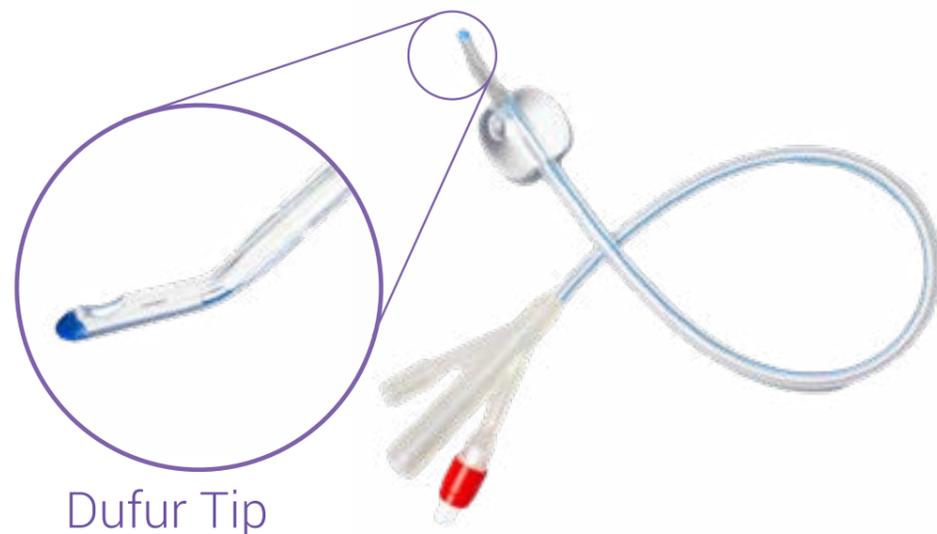
Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18		430	40121632
20		430	40121633
22		430	40121634
24		430	40121635

## 3-Way Dufour (Hydrophilic )

Size (Fr)	Color	Length (mm)	Balloon (20ml)
16		430	40122622
18		430	40122623
20		430	40122624
22		430	40122625
24		430	40122626

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16		430	40122627
18		430	40122628
20		430	40122629
22		430	40122630
24		430	40122631

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18		430	40122632
20		430	40122633
22		430	40122634
24		430	40122635



Dufur Tip

## 100% Silicone Foley Catheter with Couvelaire tip

- The Couvelaire tip and its 2 sets of opposite drainage eyes provides rapid and effective drainage of blood clots and debris.
- It is intended for use by postoperative patients and in situation that need removal of blood clots and sediments.

## 2.Way Couvelaire

Size (Fr)	Color	Length (mm)	Balloon (20ml)
12		430	40121701
14		430	40121702
16		430	40121703
18		430	40121704
20		430	40121705
22		430	40121706
24		430	40121707

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16		430	40121708
18		430	40121709
20		430	40121710
22		430	40121711
24		430	40121712

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18		430	40121713
20		430	40121714
22		430	40121715
24		430	40121716

## 2.Way Couvelaire (Hydrophilic )

Size (Fr)	Color	Length (mm)	Balloon (20ml)
12		430	40122701
14		430	40122702
16		430	40122703
18		430	40122704
20		430	40122705
22		430	40122706
24		430	40122707

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16		430	40122708
18		430	40122709
20		430	40122710
22		430	40122711
24		430	40122712

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18		430	40122713
20		430	40122714
22		430	40122715
24		430	40122716

## 3-Way Couvelaire

Size (Fr)	Color	Length (mm)	Balloon (20ml)
16	Orange	430	40121722
18	Red	430	40121723
20	Yellow	430	40121724
22	Maroon	430	40121725
24	Blue	430	40121726

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	430	40121727
18	Red	430	40121728
20	Yellow	430	40121729
22	Maroon	430	40121730
24	Blue	430	40121731

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18	Red	430	40121732
20	Yellow	430	40121733
22	Maroon	430	40121734
24	Blue	430	40121735

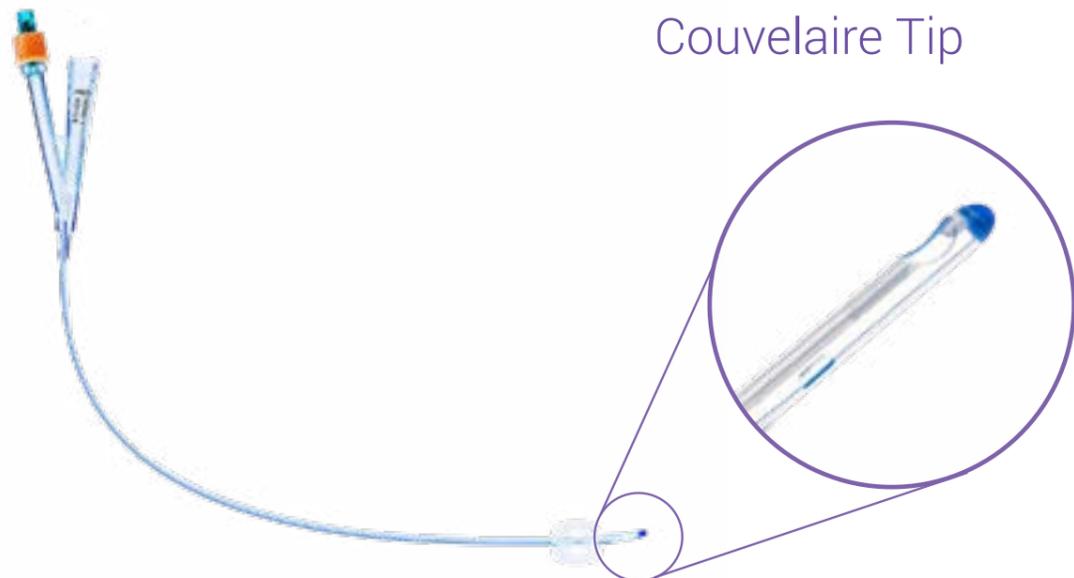
## 3-Way Couvelaire (Hydrophilic )

Size (Fr)	Color	Length (mm)	Balloon (20ml)
16	Orange	430	40122722
18	Red	430	40122723
20	Yellow	430	40122724
22	Maroon	430	40122725
24	Blue	430	40122726

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	430	40122727
18	Red	430	40122728
20	Yellow	430	40122729
22	Maroon	430	40122730
24	Blue	430	40122731

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18	Red	430	40122732
20	Yellow	430	40122733
22	Maroon	430	40122734
24	Blue	430	40122735

## Couvelaire Tip



## 100% Silicone Foley Catheter with Mercier tip

- The Mercier tip is slightly curved, with 2 sets of large and staggered eyes, and with a tip hole.
- It is used for transurethral drainage and irrigation of bladder to remove the large blood clots and sediments.

## 2.Way Mercier

Size (Fr)	Color	Length (mm)	Balloon (20ml)
12	White	430	40121801
14	Green	430	40121802
16	Orange	430	40121803
18	Red	430	40121804
20	Yellow	430	40121805
22	Maroon	430	40121806
24	Blue	430	40121807

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	430	40121808
18	Red	430	40121809
20	Yellow	430	40121810
22	Maroon	430	40121811
24	Blue	430	40121812

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18	Red	430	40121813
20	Yellow	430	40121814
22	Maroon	430	40121815
24	Blue	430	40121816

## 2.Way Mercier (Hydrophilic )

Size (Fr)	Color	Length (mm)	Balloon (20ml)
12	White	430	40122801
14	Green	430	40122802
16	Orange	430	40122803
18	Red	430	40122804
20	Yellow	430	40122805
22	Maroon	430	40122806
24	Blue	430	40122807

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16	Orange	430	40122808
18	Red	430	40122809
20	Yellow	430	40122810
22	Maroon	430	40122811
24	Blue	430	40122812

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18	Red	430	40122813
20	Yellow	430	40122814
22	Maroon	430	40122815
24	Blue	430	40122816

## 3-Way Mercier

Size (Fr)	Color	Length (mm)	Balloon (20ml)
16		430	40121822
18		430	40121823
20		430	40121824
22		430	40121825
24		430	40121826

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16		430	40121827
18		430	40121828
20		430	40121829
22		430	40121830
24		430	40121831

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18		430	40121832
20		430	40121833
22		430	40121834
24		430	40121835

## 3-Way Mercier (Hydrophilic)

Size (Fr)	Color	Length (mm)	Balloon (20ml)
16		430	40122822
18		430	40122823
20		430	40122824
22		430	40122825
24		430	40122826

Size (Fr)	Color	Length (mm)	Balloon (30ml)
16		430	40122827
18		430	40122828
20		430	40122829
22		430	40122830
24		430	40122831

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
18		430	40122832
20		430	40122833
22		430	40122834
24		430	40122835

## Latex foley Catheter - Standard

## Latex foley Catheter

## 2.Way Pediatric

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
6		3	270	40123001
8		3-5	270	40123002
10		3-5	270	40123003

## 2.Way Pediatric (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
6		3	270	40124001
8		3-5	270	40124002
10		3-5	270	40124003

## 2.Way Standard

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12		10	400	40123004
14		15	400	40123005
16		30	400	40123006
18		30	400	40123007
20		30	400	40123008
22		30	400	40123009
24		30	400	40123010
26		30	400	40123011

## 2.Way Standard (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12		10	400	40124004
14		15	400	40124005
16		30	400	40124006
18		30	400	40124007
20		30	400	40124008
22		30	400	40124009
24		30	400	40124010
26		30	400	40124011

## 2.Way Female

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12		10	260	40123012
14		15	260	40123013
16		30	260	40123014
18		30	260	40123015
20		30	260	40123016
22		30	260	40123017

## 2.Way Female (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
12		10	260	40124012
14		15	260	40124013
16		30	260	40124014
18		30	260	40124015
20		30	260	40124016
22		30	260	40124017

## 3.Way Standard

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
16		10	400	40123101
18		15	400	40123102
20		30	400	40123103
22		30	400	40123104
24		30	400	40123105
26		30	400	40123106

## 3.Way Standard (Hydrophilic)

Size (Fr)	Color	Balloon (ml)	Length (mm)	Code
16		10	400	40124101
18		15	400	40124102
20		30	400	40124103
22		30	400	40124104
24		30	400	40124105
26		30	400	40124106



## 100% Silicone Foley Catheter (Tiemann tip)

## 2.Way Tiemann

Size (Fr)	Color	Length (mm)	Balloon (5ml)
12		400	40123201
14		400	40123202
16		400	40123203
18		400	40123204
20		400	40123205
22		400	40123206
24		400	40123207
26		400	40123208

Size (Fr)	Color	Length (mm)	Balloon (5-10ml)
12		400	40123209
14		400	40123210
16		400	40123211
18		400	40123212
20		400	40123213
22		400	40123214
24		400	40123215
26		400	40123216

Size (Fr)	Color	Length (mm)	Balloon (10ml)
12		400	40123217
16		400	40123218
18		400	40123219
20		400	40123220
22		400	40123221
24		400	40123222
26		400	40123223

Size (Fr)	Color	Length (mm)	Balloon (5-15ml)
12		400	40123224
14		400	40123225
16		400	40123226
18		400	40123227
20		400	40123228
22		400	40123229
24		400	40123230
26		400	40123231

Size (Fr)	Color	Length (mm)	Balloon (15ml)
12		400	40123232
14		400	40123233
16		400	40123234
18		400	40123235
20		400	40123236
22		400	40123237
24		400	40123238
26		400	40123239

Size (Fr)	Color	Length (mm)	Balloon (15-30ml)
12		400	40123240
14		400	40123241



Size (Fr)	Color	Length (mm)	Balloon (30ml)
12	White	400	40123242
14	Green	400	40123243
16	Orange	400	40123244
18	Red	400	40123245
20	Yellow	400	40123246
22	Magenta	400	40123247
24	Blue	400	40123248
26	Light Red	400	40123249

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
16	Orange	400	40123250
18	Red	400	40123251
20	Yellow	400	40123252
22	Magenta	400	40123253
24	Blue	400	40123254
26	Light Red	400	40123255

## 2.Way Tiemann (Hydrophilic )

Size (Fr)	Color	Length (mm)	Balloon (5ml)
12	White	400	40124201
14	Green	400	40124202
16	Orange	400	40124203
18	Red	400	40124204
20	Yellow	400	40124205
22	Magenta	400	40124206
24	Blue	400	40124207
26	Light Red	400	40124208

Size (Fr)	Color	Length (mm)	Balloon (5-10ml)
12	White	400	40124209
14	Green	400	40124210
16	Orange	400	40124211
18	Red	400	40124212
20	Yellow	400	40124213
22	Magenta	400	40124214
24	Blue	400	40124215
26	Light Red	400	40124216

Size (Fr)	Color	Length (mm)	Balloon (10ml)
12	White	400	40124217
16	Orange	400	40124218
18	Red	400	40124219
20	Yellow	400	40124220
22	Magenta	400	40124221
24	Blue	400	40124222
26	Light Red	400	40124223

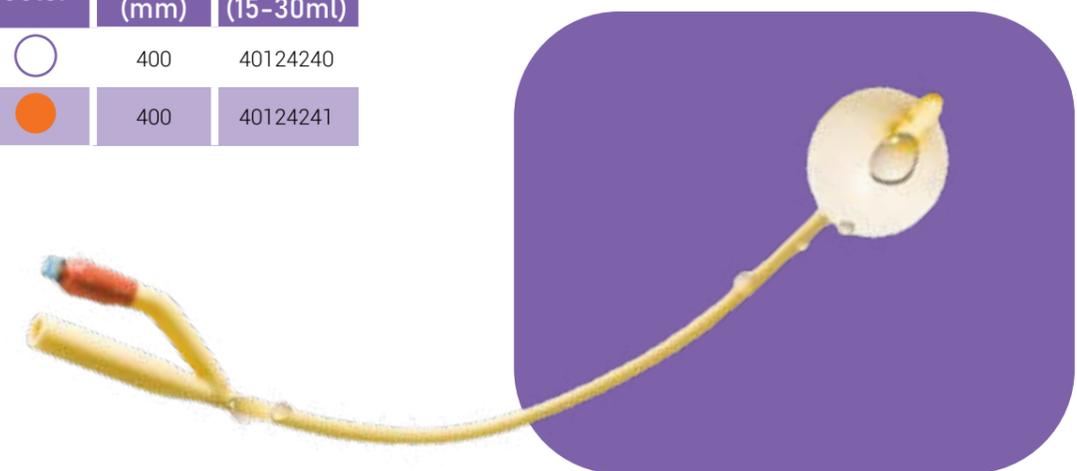
Size (Fr)	Color	Length (mm)	Balloon (5-15ml)
12	White	400	40124224
14	Green	400	40124225
16	Orange	400	40124226
18	Red	400	40124227
20	Yellow	400	40124228
22	Magenta	400	40124229
24	Blue	400	40124230
26	Light Red	400	40124231

Size (Fr)	Color	Length (mm)	Balloon (15ml)
12	White	400	40124232
14	Green	400	40124233
16	Orange	400	40124234
18	Red	400	40124235
20	Yellow	400	40124236
22	Magenta	400	40124237
24	Blue	400	40124238
26	Light Red	400	40124239

Size (Fr)	Color	Length (mm)	Balloon (15-30ml)
12	White	400	40124240
14	Orange	400	40124241

Size (Fr)	Color	Length (mm)	Balloon (30ml)
12	White	400	40124242
14	Green	400	40124243
16	Orange	400	40124244
18	Red	400	40124245
20	Yellow	400	40124246
22	Magenta	400	40124247
24	Blue	400	40124248
26	Light Red	400	40124249

Size (Fr)	Color	Length (mm)	Balloon (30-50ml)
16	Orange	400	40124250
18	Red	400	40124251
20	Yellow	400	40124252
22	Magenta	400	40124253
24	Blue	400	40124254
26	Light Red	400	40124255



# Urine Collection



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# Urine Collection

## Urine Bag with Non Return Valve 2000ml

- Large capacity:** The urine bag has a capacity of 2000ml, which allows it to collect a large amount of urine over an extended period.
- Non-return valve:** The non-return valve is located at the bottom of the bag and prevents urine from flowing back into the bladder. This helps reduce the risk of urinary tract infections and other complications.
- Drainage port:** The bag has a drainage port at the bottom that allows for easy and convenient emptying of the bag.
- Sterile packaging:** The bag is typically packaged in sterile packaging to ensure that it is free from bacteria and other contaminants before use.
- Anti-reflux chamber:** Some urine bags with non-return valves also include an anti-reflux chamber, which helps prevent urine from flowing back into the Catheter and bladder by creating a barrier between the urine and the valve.

Type	Hose Length (cm)	Non Sterile	Sterile
Cross valve	90	40130101	40130104
Push-pull valve	90	40130102	40130105
Screw valve	90	40130103	40130106



### Features:

- Urinary drainage bag acts as a **reservoir bag** that is attached to the exit end of the Catheter to collect the out flow of urine that can be drained out and disposed later
- It is often used in hospitals and in home situations where an individual may be suffering from **chronic illness or conditions that make regular trips to the bathroom unfeasible.**
- For single use only**

### Cross Valve



A cross valve has T- shaped, this type of valve is opened and closed by turning a T-shaped handle.

### Push Pull Valve



A push-pull valve is a type of valve that is opened and closed by pushing or pulling the valve stem.

### Screw Valve



A screw valve is a type of valve that is opened and closed by twisting it in a clockwise or counter clockwise direction.

## Secretion Bag without Drainage Port

Volume (ml)	Hose Length (cm)	Non Sterile	Sterile
1500	90	40130201	40130202
1500	90	40130203	40130204



### Features:

- Clear plastic material:** The bag is made of a clear plastic material that allows healthcare professionals to monitor the color and consistency of the collected fluids.
- Sterile packaging:** The bag is typically packaged in sterile packaging to ensure that it is free from bacteria and other contaminants before use.
- Multiple attachment options:** The bag may have multiple attachment options, such as adhesive strips or loops, to allow for secure attachment to a Catheter or other medical device.

## Closed Urine Drainage System, Sterile

Volume (ml)	Hose Length (cm)	Drain Valve (Cross valve)	with Needle	Needle Free
2000	120	vertical	40130301	40130302
2000	120	horizontal	40130303	40130304

Volume (ml)	Hose Length (cm)	Drain Valve (Cross valve)	with Needle
2000	90	horizontal	40130305
2000	90	vertical	40130306

- A closed urinary drainage system consists of a **Catheter** inserted into the urinary bladder and **connected via tubing to a drainage bag**.
- The Catheter is retained in the bladder by **an inflated balloon**.
- The drainage of urine is totally dependent on gravity.



### Features:

1. **Design:** A closed urinary drainage system consists of a Catheter, a drainage bag, and a tubing that connects the Catheter to the drainage bag. The system is designed to be airtight, which prevents the entry of bacteria and other contaminants into the bladder.
2. **Sterile:** The system is typically packaged and delivered in a sterile condition to minimize the risk of infection.
3. **Reduced risk of infection:** The closed system design prevents bacteria from entering the bladder, which reduces the risk of infection.
4. **Continuous drainage:** The system allows for continuous drainage of urine, which can help prevent bladder distention and discomfort.
5. **Accurate measurement:** The drainage bag is typically marked with graduations that allow healthcare professionals to accurately measure the amount of urine collected.
6. **Comfort:** The system is designed to be comfortable for the patient, with soft tubing and a lightweight drainage bag that can be attached to the patient's leg or bed.

## Urine Measurement System Single chamber

Volume (ml)	Hose Length (cm)	Type	Urimeter (ml)	Sampling point	
				with Needle	Needle Free
2600	150	Single Chamber	500	40130401	40130402

### Features:

- Large scale and easy-to-read digits for convenient, accurate reading
- Air vent keeps constant airflow through the system and reduces risk of urinary tract infection
- Non-return valve prevents risk of infection
- Easy-to-operate outlet valve
- Convenient tap on the bag can be tucked away to reduce risk of contamination
- Accurate measurement: The chamber is marked with graduations that allow healthcare professionals to accurately measure the amount of urine collected.



## Urine Leg Bag

Volume (ml)	Hose Length (cm)	Sterility	with Needle
750	10	Non Sterile	40130501
750	50	Sterile	40130502

### Features:

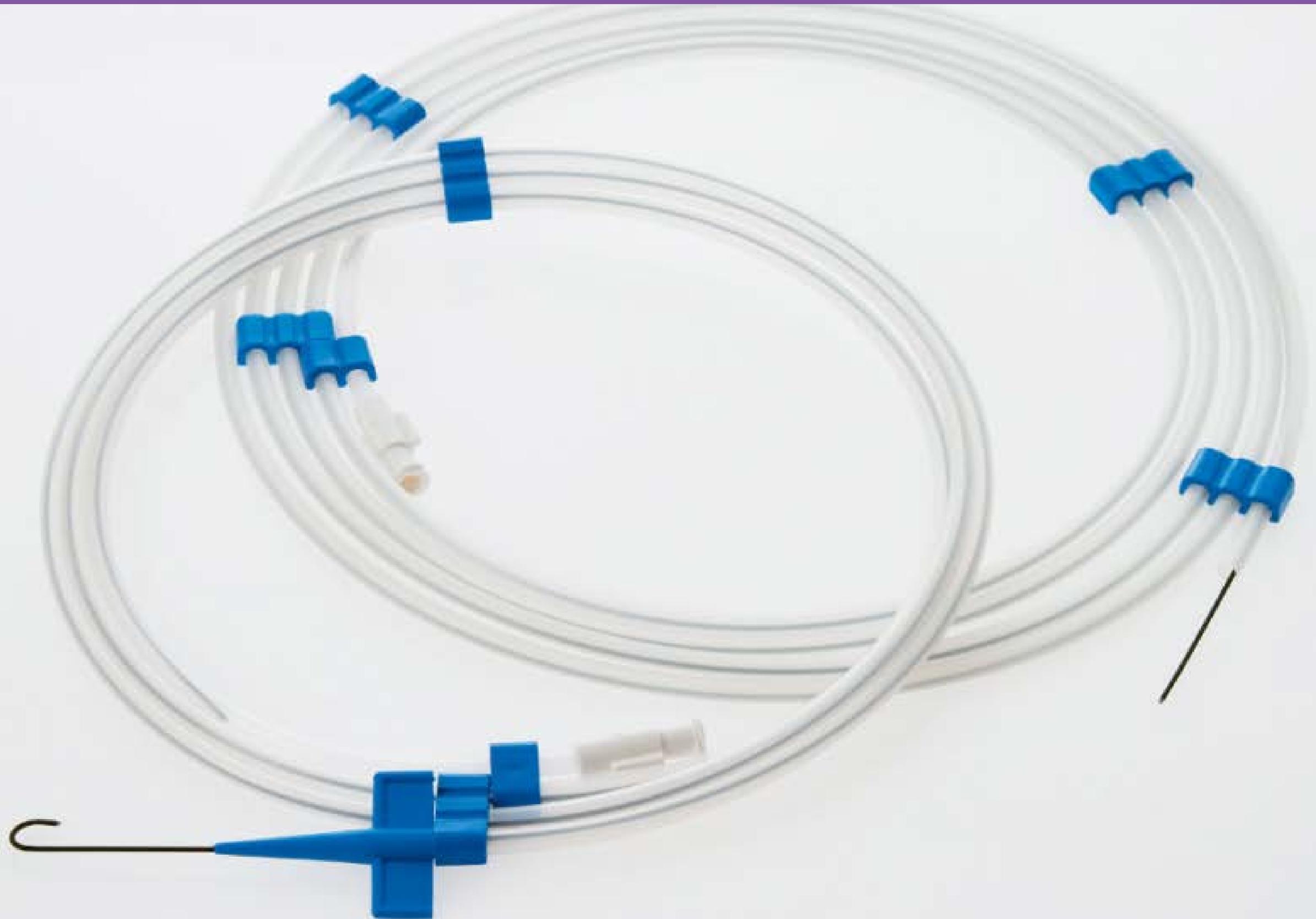
- Urinary leg bag provides an efficient solution for urinary incontinence in the day time.
- The bag preserves freedom of mobility and activity as the bag is attached to the leg of the patient
- Soft Non-woven backside provides comfort to the skin
- Available with 750ml bags (Sterile & non-sterile)
- Non-return valve
- Single use only



# Endourology



# Access Wires



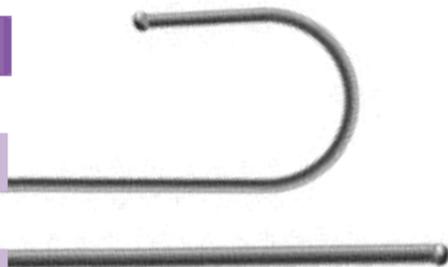
# Guide Wires

- Guide Wires are used to ensure rapid access, easy advancement and replacement of medical devices during urological procedures such as ureteroscopy and percutaneous nephrolithotomy (PCNL).

Guide Wire	Feature
Stainless Steel Guide Wire Straight tip	Enhanced Precision (through Small Openings and Tight Spaces with Accuracy)
PTFE Guide Wire with Fixed Stainless Steel Core Straight Tip	Smooth Insertion
PTFE Jacket, Nitinol Core Guide Wire with Hydrophilic Tip Straight Tip	More Flexible
PTFE Jacket, Nitinol core Guide Wire Black and Yellow Strip Straight Tip	The Black and Yellow Strip on the Nitinol Core of the Guide Wire Indicates the Location of the Distal end to Help Medical Professionals Monitor the Position of the Guide Wire inside the Body during the Procedure
Hydrophilic Coated Guide Wire Straight Tip	Straight Tip Guide Wires are Designed to Navigate through Straighter Paths
Hydrophilic Coated Guide Wire Angled Tip	Angled Tip Guide Wires are Designed to Navigate through Curves and Bends in the Body

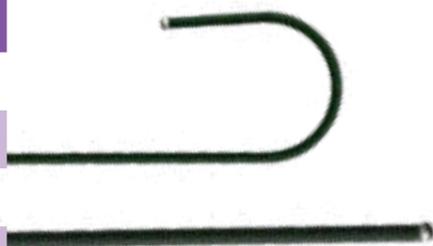
## Stainless Steel Guide Wire - Straight Tip

Size (Inch)	Length (cm)	Code
0.028	150	40230101
0.032	150	40230102
0.035	150	40230103
0.038	150	40230104



## PTFE Guide Wire with Fixed Stainless Steel Core - Straight Tip

Size (Inch)	Length (cm)	Code
0.028	150	40230201
0.032	150	40230202
0.035	150	40230203
0.038	150	40230204



## PTFE Jacket, Nitinol Core Guide Wire with Hydrophilic Tip - Straight Tip

Size (Inch)	Length (cm)	Code
0.028	150	40230301
0.032	150	40230302
0.035	150	40230303



## PTFE Jacket, Nitinol Core Guide Wire Black and Yellow Strip - Straight Tip

Size (Inch)	Length (cm)	Code
0.028	150	40230401
0.032	150	40230402
0.035	150	40230403



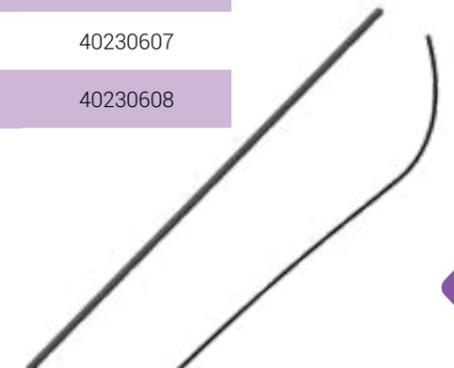
## Hydrophilic Coated Guide Wire - Straight Tip

Size (Inch)	Length (cm)	Code	
		Standard Shaft	Stiff Shaft
0.028	150	40230501	40230505
0.032	150	40230502	40230506
0.035	150	40230503	40230507
0.038	150	40230504	40230508

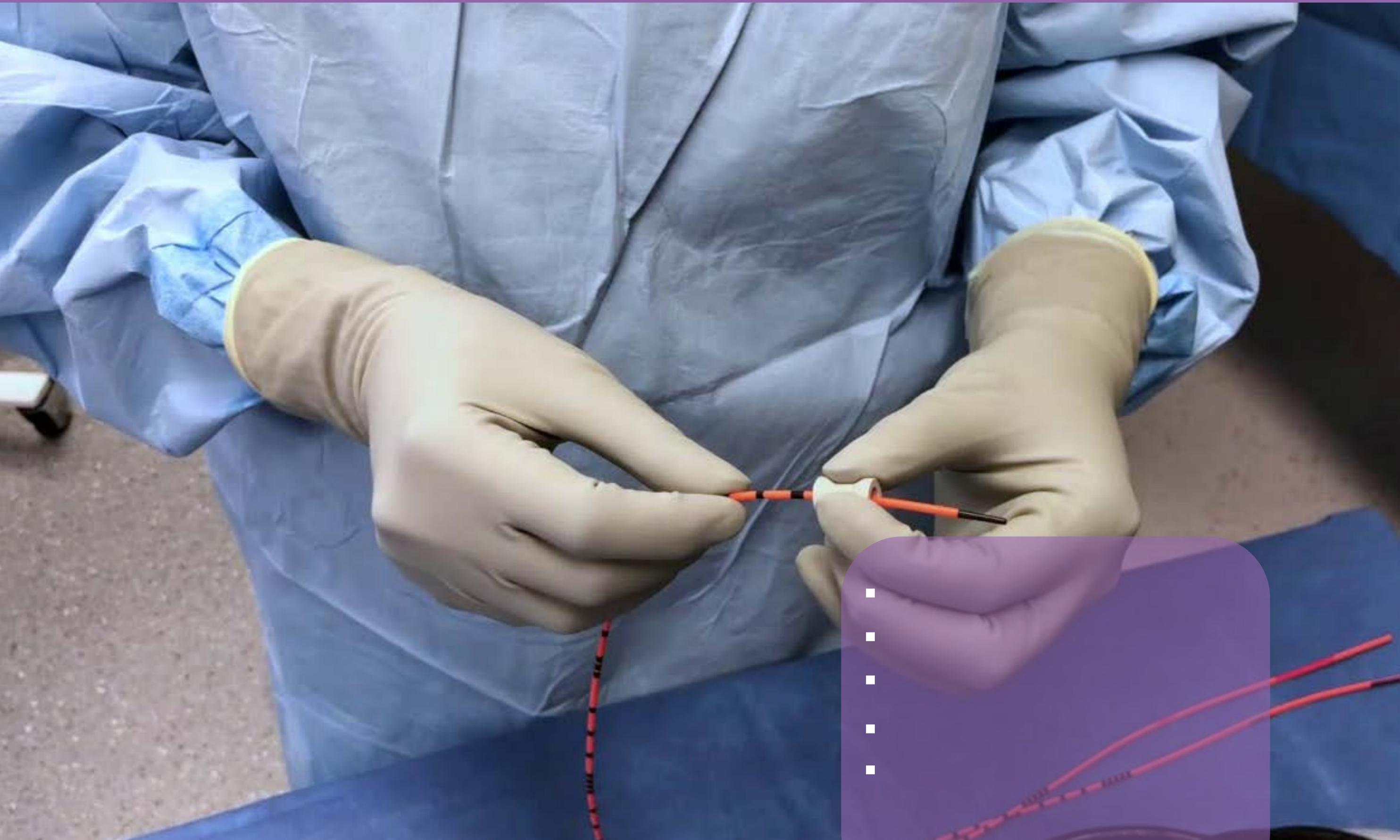


## Hydrophilic Coated Guide Wire - Angled Tip

Size (Inch)	Length (cm)	Code	
		Standard Shaft	Stiff Shaft
0.028	150	40230601	40230605
0.032	150	40230602	40230606
0.035	150	40230603	40230607
0.038	150	40230604	40230608



# Advanced Drainage



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# Nephrostomy Catheter

## Percutaneous Nephrostomy Drainage Catheter Set

Catheter Size (Fr)	Length (cm)	Dilator size (Fr)	code
8	30	6,8,10	40210101
10	30	8,10,12	40210102
12	30	8,10,12,14	40210103
14	30	8,12,14,16	40210104
16	30	8,14,16,18	40210105

### Set Includes :

- Pigtail Catheter + Dilators + Stainless Steel Stiffner + 0.035\*80 cm Stainless Steel Guide Wire
- 22 G Chiba Needle + 18 G Initial Puncture Needle + 11# Scalpel + Connecting Tube
- Three Way Stopcock

Nephrostomy Catheter is used to drain any cystic collection inside the body either surgically, graphically or ultrasound guided in cases of dilated pelvicalyceal system.

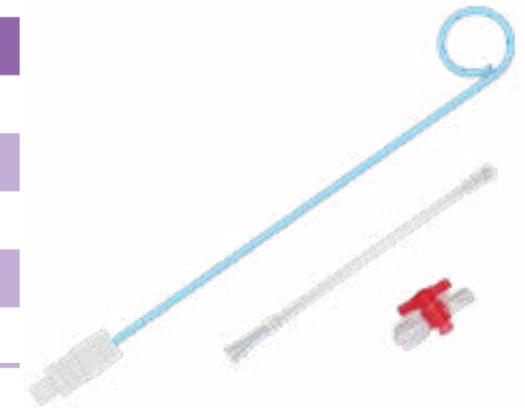
### Features:

- The Catheter made of polyurethane provides comfort to the patient.
- The surface Catheter and its tube is smooth enough to reduce friction.
- Side holes are designed for maximum drainage
- All sizes come in length 30 cm.



## Pigtail Nephrostom Drainage Catheter with Trocar (PCN)

Catheter Size (Fr)	Length (cm)	code
8	30	40210201
10	30	40210202
12	30	40210203
14	30	40210204
16	30	40210205



### Set Includes :

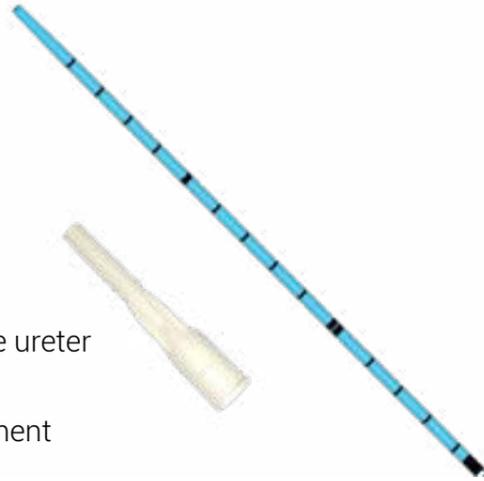
- Catheter + Trocar Needle, without Hydrophilic Coating
- without Locking Mechanism, with Stainless Steel Stiffner, Paper-Poly Pouch, Sterile
- Used for temporary or permanent drainage of urine from kidney by direct puncture method.
- The Pigtail tip & J shape configuration helps in the retention of the distal tip in the renal pelvis.

# Ureteral Catheter

The Ureteral Catheters are used for drainage

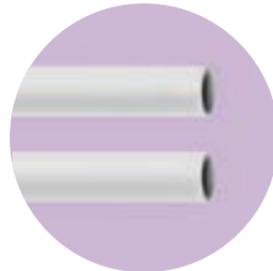
## Features

- Ureteral Catheter, with Guide Wire
- Available with different tip configurations and sizes
- Open tip for atraumatic passage into and through the ureter and for placement over a guide Wire
- Closed tip supplied with a guide Wire for easy placement
- Good radiopacity for easy visualization
- Clear markings facilitating confirmation of placement
- Standard luer connectors available upon request



## Ureteral Catheter, Open Tip

Size (Fr)	Length (cm)	Code
4	70	40270101
5	70	40270102
6	70	40270103
7	70	40270104
8	70	40270105



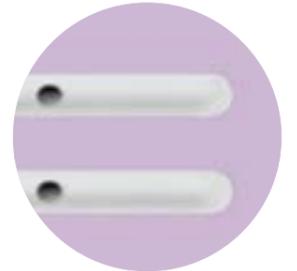
## Ureteral Catheter, Soft Open Tip

Size (Fr)	Length (cm)	Code
4	70	40270201
5	70	40270202
6	70	40270203
7	70	40270204
8	70	40270205



## Ureteral Catheter, Closed Round Tip

Size (Fr)	Length (cm)	Code
4	70	40270301
5	70	40270302
6	70	40270303
7	70	40270304
8	70	40270305



## Ureteral Catheter, Open Tapered Tip

Size (Fr)	Length (cm)	Code
4	70	40270401
5	70	40270402
6	70	40270403
7	70	40270404
8	70	40270405



## Ureteral Catheter, Open Cone Tip

Size (Fr)	Length (cm)	Code
4.8 / 8	70	40270501
6 / 10	70	40270502



# Suprapubic Catheter

Catheter Size (Fr)	Length (cm)	Balloon(ml)	Balloon	
			Standard	Integrated
8	37	5	40220101	40220201
10	37	5	40220102	40220202
12	40	5	40220103	40220203
14	40	5	40220104	40220204
16	40	10	40220105	40220205
18	40	10	40220106	40220206
20	40	10	40220107	40220207
22	40	10	40220108	40220208

## Set Includes :

- All Silicone Foley Catheter + Trocar with Peel Away Sheath + Scalpel

## Features:

- More comfortable
- Easier to change
- Less likely to get blocked
- Improved urinary drainage
- Reduced risk of urinary tract infections



# Ureteral Dilators

The Ureteral Dilators are used for dilation of the ureter prior to ureteroscopy and stone manipulation.

## Features:

- Made of polyethylene
- Smooth surface for less trauma and easy advancement
- Tapered tip facilitating easy introduction
- Good radiopacity for easy visualization
- Available with different sizes

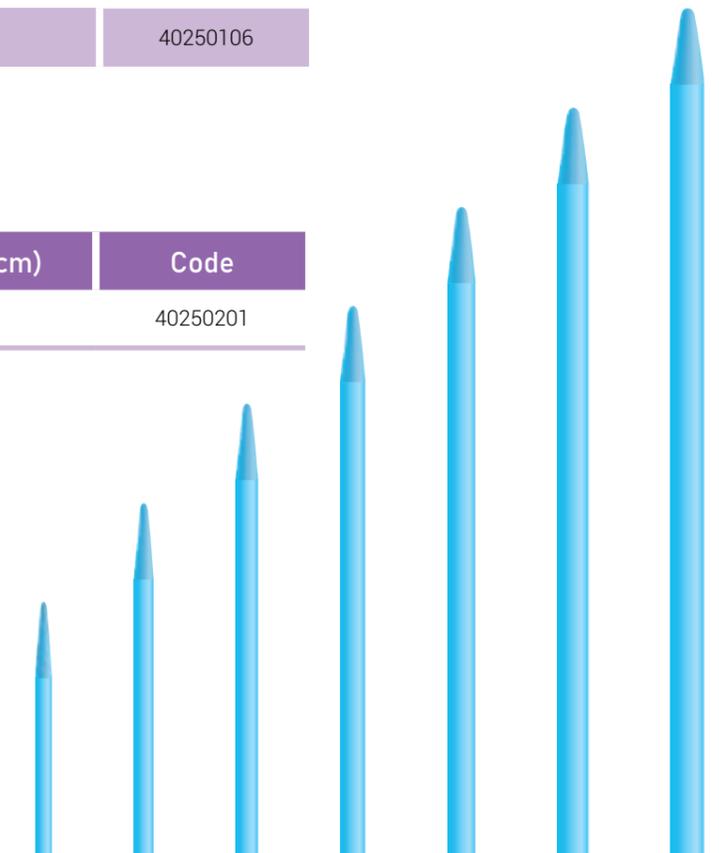
## Ureteral Dilators

Size (Fr)	Length (cm)	Code
8	60	40250101
10	60	40250102
12	60	40250103
14	60	40250104
16	60	40250105
18	60	40250106



## Ureteral Dilator Set

Size (Fr)	Length (cm)	Code
6 - 18	60	40250201



# Urethral Dilator

Urethral dilators are used to widen or expand the urethra. Urethral dilators are used to treat conditions that cause urethral strictures or narrowing, which can lead to difficulty urinating, painful urination, and other urinary symptoms.

## Straight Urethral Dilators

- Made of polyethylene
- Straight urethral dilators come in a range of graduated sizes, with each size increasing in diameter as the procedure progresses
- Smooth surface for less trauma and easy advancement
- Tapered tip facilitating easy introduction
- Good radiopacity for easy visualization

Size (Fr)	Length (cm)	Code
8	37	40240101
10	37	40240102
12	37	40240103
14	37	40240104
16	37	40240105
18	37	40240106
20	37	40240107
22	37	40240108
24	37	40240109
26	37	40240110

## Straight Urethral Dilator Set

Size (Fr)	Length (cm)	Code
8-24	37	40240201

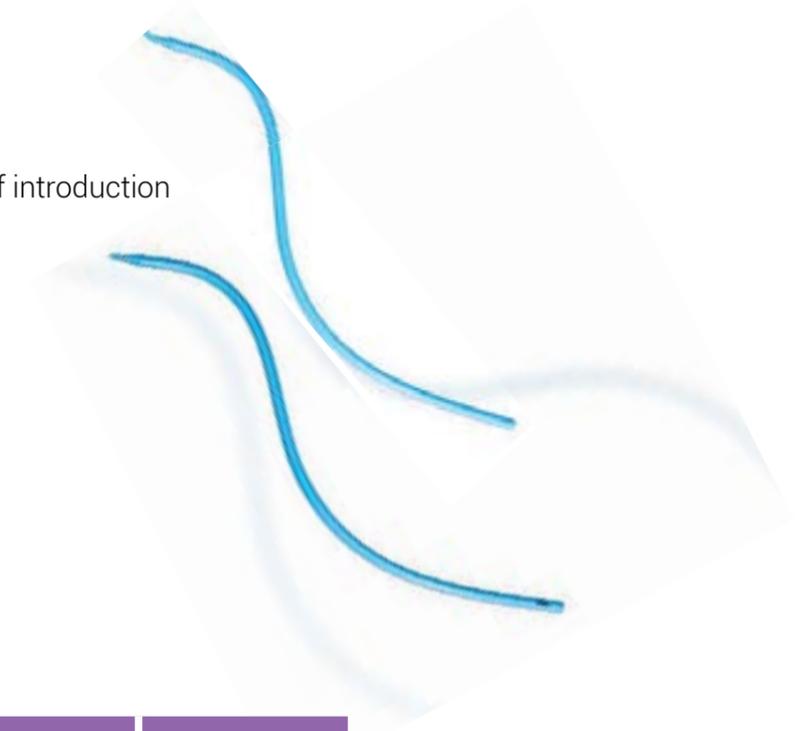


## S Shape Urethral Dilators

S Curve Dilator Set used for dilation of male urethral strictures. It supports the natural curvature of the male urethra.

### Features:

- Intended for one-time use
- Smooth Surface for ease of introduction
- Sterile



Size (Fr)	Length (cm)	Code
22	37	40240301
24	37	40240302
26	37	40240303

## S Shape Urethral Dilator Set

Size (Fr)	Length (cm)	Code
8 - 20	37	40240401
14 - 26	37	40240402
16 - 26	37	40240403



# Stents

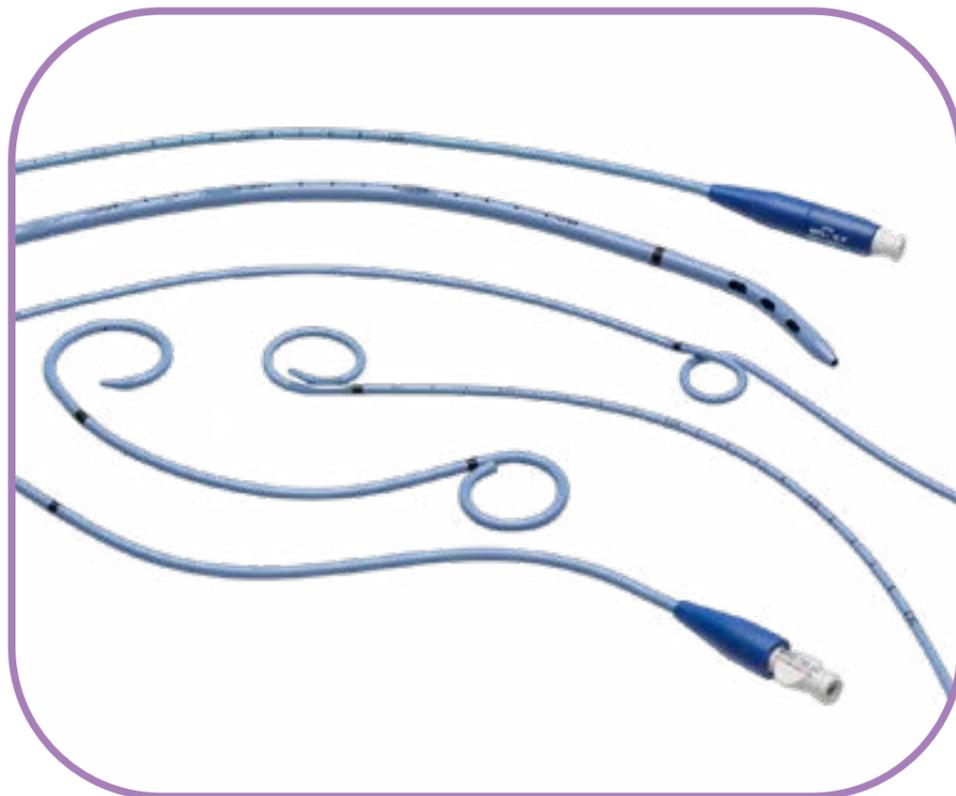


# Ureteral Stents

A double J ureteral stent, or ureteric stent, is inserted into the ureter to prevent or treat obstruction of the urine flow from the kidney into the bladder. J shaped curls are present at both ends to hold the tube in place and prevent migration.

## (Open - Open) - with Pusher

- 100% Silicone material has non-adherent characteristics and reduces encrustation and calcifications.
- Pigtail shapes preventing stent migration.
- Smooth surface for easy placement and withdrawal.
- Thin wall for maximum drainage.
- High radiopacity which allows for better visualization.
- Clear markings facilitating confirmation of placement & ease of removal.
- Symmetrical balloon provides a tight seal at the neck of the urethra.
- Good radiopacity for easy visualization
- Available with different designs, coatings, length and diameters.



Size (Fr)	Length (cm)	Standard Ureteral Stent (open - open)	
		without String	with String
4	24	40261101	40261201
4	26	40261102	40261202
4	28	40261103	40261203
4	30	40261104	40261204
4.6	24	40261105	40261205
4.6	26	40261106	40261206
4.6	28	40261107	40261207
4.6	30	40261108	40261208
5	24	40261109	40261209
5	26	40261110	40261210
5	28	40261111	40261211
5	30	40261112	40261212
6	24	40261113	40261213
6	26	40261114	40261214
6	28	40261115	40261215
6	30	40261116	40261216
7	24	40261117	40261217
7	26	40261118	40261218
7	28	40261119	40261219
7	30	40261120	40261220
8	24	40261121	40261221
8	26	40261122	40261222
8	28	40261123	40261223
8	30	40261124	40261224

Size (Fr)	Length (cm)	Hydrophilic Ureteral Stent (open - open)	
		without String	with String
4	24	40261301	40261401
4	26	40261302	40261402
4	28	40261303	40261403
4	30	40261304	40261404
4.6	24	40261305	40261405
4.6	26	40261306	40261406
4.6	28	40261307	40261407
4.6	30	40261308	40261408
5	24	40261309	40261409
5	26	40261310	40261410
5	28	40261311	40261411
5	30	40261312	40261412
6	24	40261313	40261413
6	26	40261314	40261414
6	28	40261315	40261415
6	30	40261316	40261416
7	24	40261317	40261417
7	26	40261318	40261418
7	28	40261319	40261419
7	30	40261320	40261420
8	24	40261321	40261421
8	26	40261322	40261422
8	28	40261323	40261423
8	30	40261324	40261424

**(Open - Close ) - with Pusher**

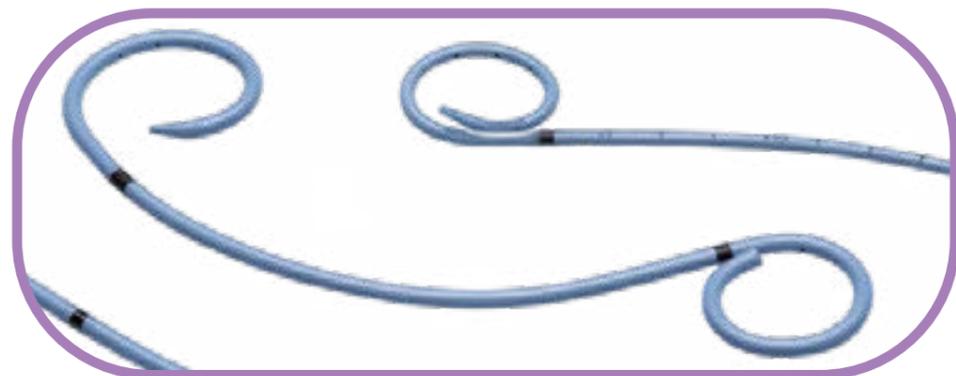
Ureteral stents with an open-close mechanism and pusher have several potential benefits:

1. **Improved urine flow control:** The open-close mechanism allows for better control over the flow of urine through the ureter.
2. **Reduced stent-related symptoms:** This reduces the amount of irritation and inflammation that can occur with a traditional stent.
3. **Easier removal:** The pusher component makes it easier to insert and remove the stent, which may reduce the risk of complications and improve patient comfort during the removal process.
4. **Shorter stent duration:** This can reduce the amount of time that the patient needs to have a stent in place, which can improve patient comfort and reduce the risk of stent-related complications.

**Note: Hydrophilic coating becomes lubricious when contacting water for smooth insertion**

Size (Fr)	Length (cm)	Standard Ureteral Stent (open - open)	
		without String	with String
4	26	40262101	40262201
4.6	26	40262102	40262202
5	26	40262103	40262203
6	26	40262104	40262204
7	26	40262105	40262205
8	26	40262106	40262206

Size (Fr)	Length (cm)	Hydrophilic Ureteral Stent (open - close)	
		without String	with String
4	26		40262401
4.6	26		40262402
5	26		40262403
6	26		40262404
7	26		40262405
8	26		40262406



**(Open - Open ) - with Pusher and Straight PTFE Coated GuideWire**

PTFE Coated:

- Smooth PTFE coated shaft facilitating easy passage
- Flexible J tip can be adjusted by moving the core

Size (Fr)	Length (cm)	Standard Ureteral Stent (open - open)	
		without String	with String
5	24	40263101	40263201
5	26	40263102	40263202
5	28	40263103	40263203
5	30	40263104	40263204
6	24	40263105	40263205
6	26	40263106	40263206
6	28	40263107	40263207
6	30	40263108	40263208
7	24	40263109	40263209
7	26	40263110	40263210
7	28	40263111	40263211
7	30	40263112	40263212
8	24	40263113	40263213
8	26	40263114	40263214
8	28	40263115	40263215
8	30	40263116	40263216

Size (Fr)	Length (cm)	Standard Ureteral Stent (open - open)	
		without String	with String
5	24	40263301	40263401
5	26	40263302	40263402
5	28	40263303	40263403
5	30	40263304	40263404
6	24	40263305	40263405
6	26	40263306	40263406
6	28	40263307	40263407
6	30	40263308	40263408
7	24	40263309	40263409
7	26	40263310	40263410
7	28	40263311	40263411
7	30	40263312	40263412
8	24	40263313	40263413
8	26	40263314	40263414
8	28	40263315	40263415
8	30	40263316	40263416

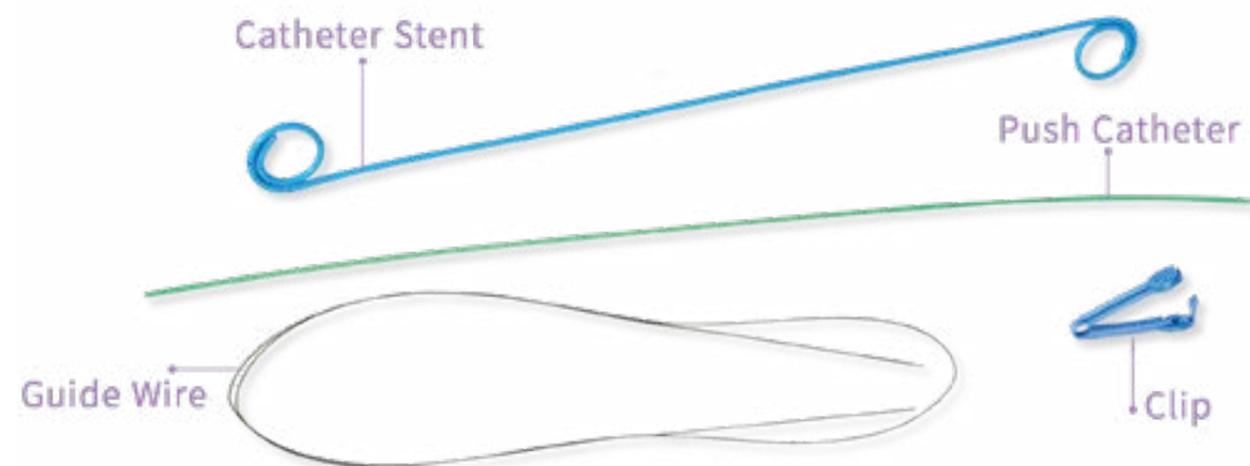
\* PTFE Guide Wire Size : OD X Length = 0.035" X 150 cm

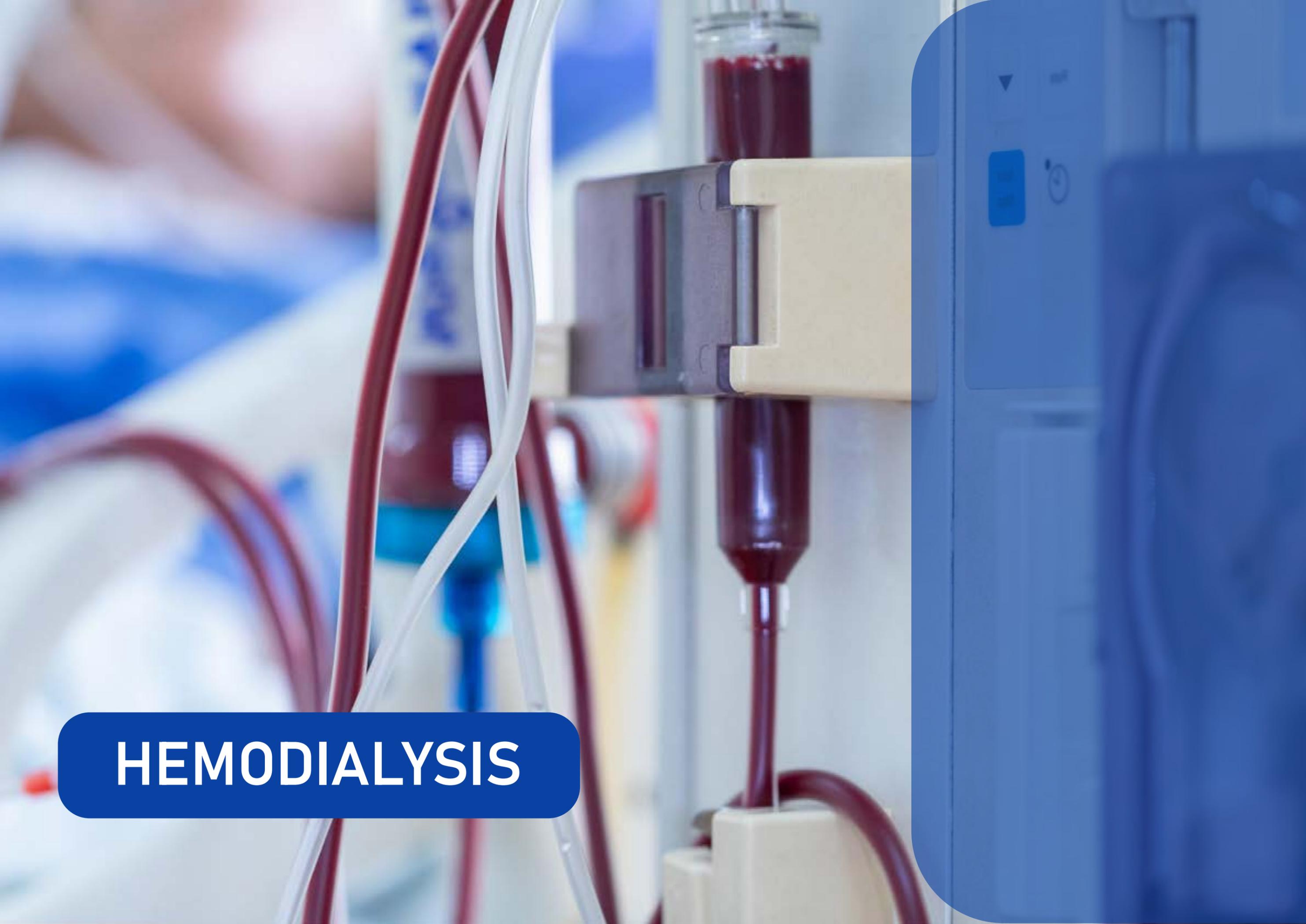


**(Open - Close ) - with Pusher and Straight PTFE Coated Guide Wire**

Size (Fr)	Length (cm)	Standard Ureteral Stent (open - open)		Size (Fr)	Length (cm)	Hydrophilic Ureteral Stent (open - close)
		without String	with String			with String
5	26	40264101	40264201	5	26	40264401
6	26	40264102	40264202	6	26	40264402
7	26	40264103	40264203	7	26	40264403
8	26	40264104	40264204	8	26	40264404

\* PTFE Guide Wire Size : OD X Length = 0.035" X 150 cm





# HEMODIALYSIS



# Access

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# AV Fistula Needles

## Standard Fistula Needles

- An arteriovenous (AV) fistula needle is a specialized medical device used in hemodialysis procedures. It is designed to access an AV fistula, which is a surgically created connection between an artery and a vein in patients with end-stage renal disease (ESRD). The AV fistula needle is used to puncture the AV fistula, allowing blood to flow from the patient's body into the hemodialysis machine and back.
- During a hemodialysis session, two AV fistula needles are typically inserted into the patient's AV fistula. One needle is connected to the arterial line, which carries blood from the patient to the hemodialysis machine for filtration, while the other needle is connected to the venous line, which returns the filtered blood from the machine back to the patient's body.

### Advantages of AV Fistula:

- Remains functional longer than other forms of vascular access
- No synthetic material implanted in patient's body
- Provides the necessary blood flow needed for effective dialysis, which may help decrease treatment time
- Low risk of infection
- Created in an outpatient procedure under local anaesthesia
- Fast return to patient's daily activities

Description	Code
V 15 G x 25 x 150	50020111
V 15 G x 25 x 300	50020112
V 16 G x 25 x 150	50020113
V 16 G x 25 x 300	50020114
V 17 G x 25 x 150	50020115
V 17 G x 25 x 300	50020116

\*Venous

\*Wing: Blue Color ■

Description	Code
A 15 G x 25 x 150	50020121
A 15 G x 25 x 300	50020122
A 16 G x 25 x 150	50020123
A 16 G x 25 x 300	50020124
A 17 G x 25 x 150	50020125
A 17 G x 25 x 300	50020126

\*Arterial

\*Wing: Red Color ■

Description	Code
A+V 15 G x 25 x 150	50020131
A+V 15 G x 25 x 300	50020132
A+V 16 G x 25 x 150	50020133
A+V 16 G x 25 x 300	50020134
A+V 17 G x 25 x 150	50020135
A+V 17 G x 25 x 300	50020136

\* Arterial+Venous

\*Wing: Red+Blue Color ■ ■



## Safety Fistula Needles

- Safety Fistula Needle is designed to help protect against needlestick injuries (NSI) and a system with built-in advantages: once locked, stays locked. When activated, the needle's safety mechanism confirms the protector is permanently locked in place with an audible and tactile.



Description	Code
V 15 G x 25 x 150	50020111
V 15 G x 25 x 300	50020112
V 16 G x 25 x 150	50020113
V 16 G x 25 x 300	50020114
V 17 G x 25 x 150	50020115
V 17 G x 25 x 300	50020116

\*Venous

\*Wing: Blue Color 

Description	Code
A 15 G x 25 x 150	50020121
A 15 G x 25 x 300	50020122
A 16 G x 25 x 150	50020123
A 16 G x 25 x 300	50020124
A 17 G x 25 x 150	50020125
A 17 G x 25 x 300	50020126

\*Arterial

\*Wing: Red Color 

Description	Code
A+V 15 G x 25 x 150	50020131
A+V 15 G x 25 x 300	50020132
A+V 16 G x 25 x 150	50020133
A+V 16 G x 25 x 300	50020134
A+V 17 G x 25 x 150	50020135
A+V 17 G x 25 x 300	50020136

\* Arterial+Venous

\*Wing: Red+Blue Color 

### Benefits of Safety Fistula Needle:

- **Built-in safety advantage:** a permanent locking feature eliminates the worry of accidental needlesticks.
- **Needle retracts into the safety guard.**
- **Textured wings provide a secure grip,** making it easier to cannulate.

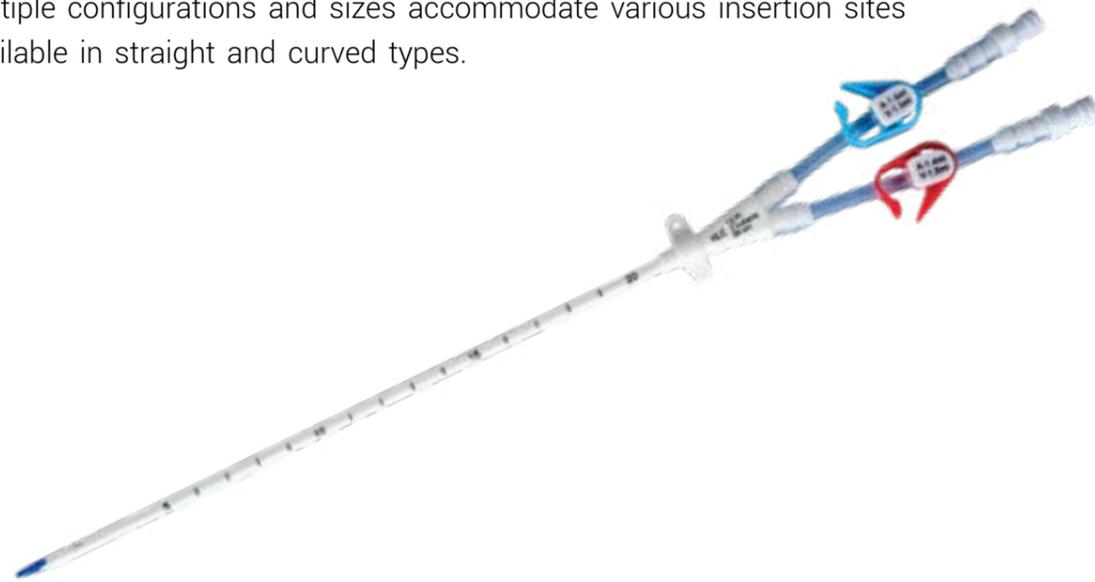


# Dialysis Catheters

## Standard Dialysis

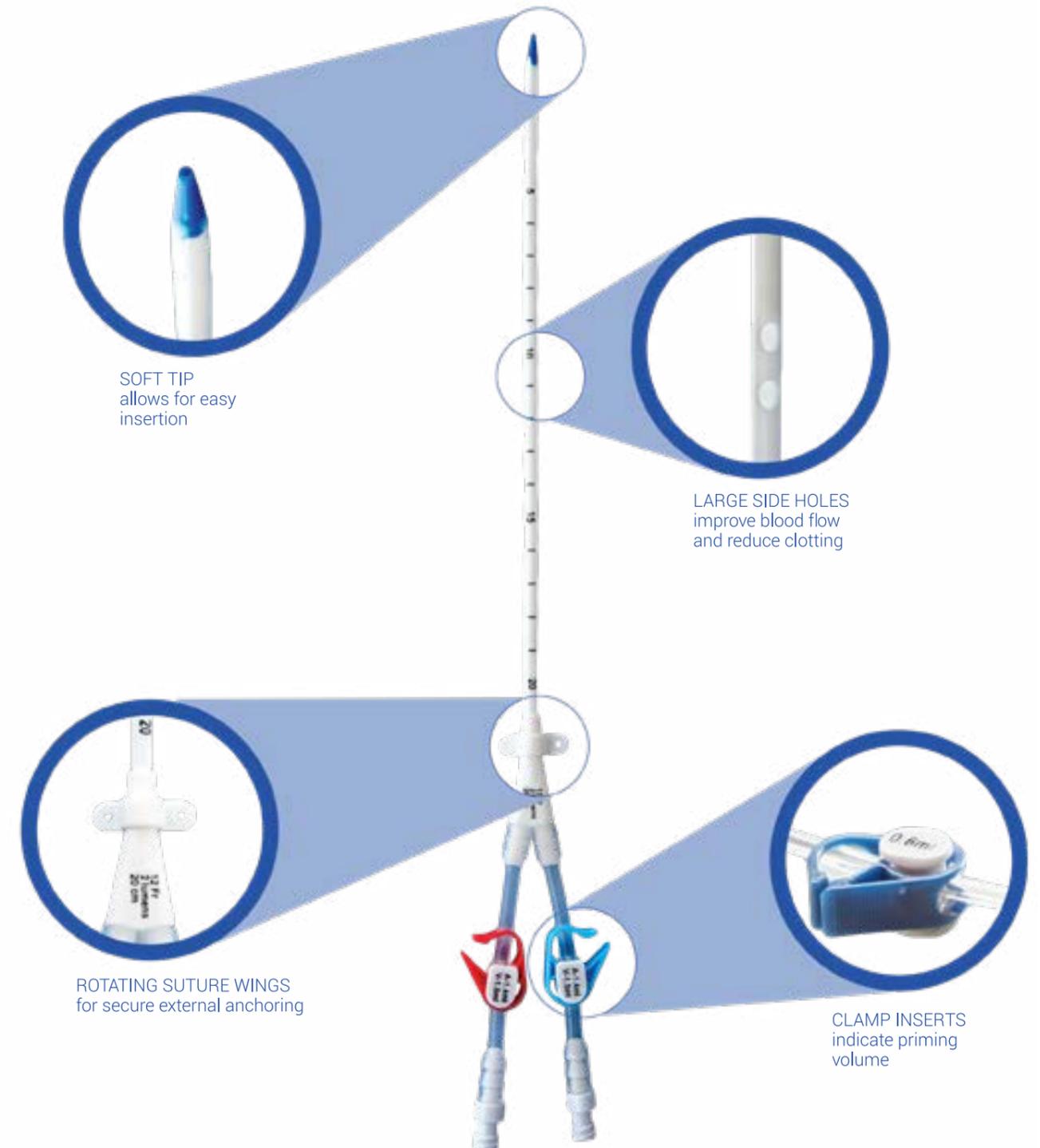
### Features:

- Flexible polyurethane material facilitates ease of insertion yet softens at body temperature.
- Radiopaque for quick visualization.
- Multiple sizes for various patients' need.
- Ideal for extracorporeal therapies: Dialysis, Hemofiltration and Apheresis.
- Soft and flexible extension tubes to ensure soft patient comfort & shock absorbance.
- Soft tip perfectly tapered to ensure smooth insertion.
- Integrated light weight clamp to ensure soft and rapid clamping in emergency cases.
- Tapered female luer for easy secure connection of all bloodlines.
- Long tip tapered tissue dilators to ensure minimum trauma and easy access.
- Multiple configurations and sizes accommodate various insertion sites
- Available in straight and curved types.



Type	Description
S	Introducer Needle Straight
Y	Introducer Needle Y
Safety	Needle Safety with Cover

\*NOTE: Other Varieties (Type Y - Safety S - Safety Y) are available upon request



## Double Lumen

### KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 7F X 10cm
4. Scalpel: X1



### Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300111	6.5	5	s	20	50	0.021
50300112	6.5	8	s	20	50	0.021
50300113	6.5	10	s	20	50	0.021
50300114	6.5	13	s	20	50	0.021
50300115	6.5	16	s	20	50	0.021
50300116	6.5	20	s	20	60	0.021



### Curved Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50301111	6.5	5	s	20	50	0.021
50301112	6.5	8	s	20	50	0.021
50301113	6.5	10	s	20	50	0.021
50301114	6.5	13	s	20	50	0.021
50301115	6.5	16	s	20	50	0.021
50301116	6.5	20	s	20	60	0.021



### KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 9F X 10cm
4. Scalpel: X1



### Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300121	8.5	5	s	20	50	0.025
50300122	8.5	8	s	20	50	0.025
50300123	8.5	10	s	20	50	0.025
50300124	8.5	13	s	20	50	0.025
50300125	8.5	16	s	20	50	0.025
50300126	8.5	20	s	20	60	0.025



### Curved Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50301121	8.5	5	s	20	50	0.025
50301122	8.5	8	s	20	50	0.025
50301123	8.5	10	s	20	50	0.025
50301124	8.5	13	s	20	50	0.025
50301125	8.5	16	s	20	50	0.025
50301126	8.5	20	s	20	60	0.025



## KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 9F X 10cm - 10F X 15cm
4. Scalpel: X1



## Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300133	10	10	s	18	50	0.038
50300134	10	13	s	18	50	0.038
50300135	10	15	s	18	50	0.038
50300136	10	16	s	18	50	0.038
50300138	10	20	s	18	60	0.038



## Curved Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50301133	10	10	s	18	50	0.038
50301134	10	13	s	18	50	0.038
50301135	10	15	s	18	50	0.038
50301136	10	16	s	18	50	0.038
50301138	10	20	s	18	60	0.038



## KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 12F X 15cm - 10F X 15cm
4. Scalpel: X1



## Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300144	11.5	13	s	18	50	0.038
50300145	11.5	16	s	18	50	0.038
50300146	11.5	20	s	18	60	0.038
50300147	11.5	25	s	18	60	0.038



## Curved Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50301144	11.5	13	s	18	50	0.038
50301145	11.5	16	s	18	50	0.038
50301146	11.5	20	s	18	60	0.038
50301147	11.5	25	s	18	60	0.038



**KIT Includes:**

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 12F X 15cm - 10F X 15cm
4. Scalpel: X1

**Straight Extension Tube**

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300154	12	13	s	18	50	0.038
50300155	12	16	s	18	50	0.038
50300156	12	20	s	18	60	0.038

**Curved Extension Tube**

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50301154	12	13	s	18	50	0.038
50301155	12	16	s	18	50	0.038
50301156	12	20	s	18	60	0.038



Hemodialysis

**KIT Includes:**

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 12F X 15cm - 14F X 15cm
4. Scalpel: X1

**Straight Extension Tube**

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300164	14	13	s	18	50	0.038
50300165	14	16	s	18	60	0.038
50300166	14	20	s	18	70	0.038

**Curved Extension Tube**

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50301164	14	13	s	18	50	0.038
50301165	14	16	s	18	60	0.038
50301166	14	20	s	18	70	0.038



Quality In Care

## Triple Lumen

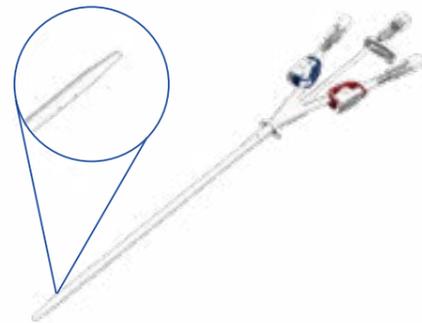
### KIT Includes:

1. Injection Cap: X3
2. Syringe: 5ml
3. Dilator: 12F X 15cm - 10F X 15cm
4. Scalpel: X1



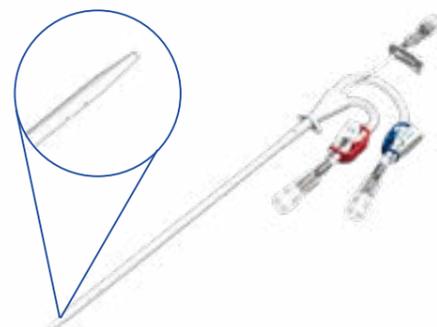
### Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50302154	12	13	s	18	50	0.038
50302155	12	16	s	18	50	0.038
50302156	12	20	s	18	60	0.038



### Curved Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50303154	12	13	s	18	50	0.038
50303155	12	16	s	18	50	0.038
50303156	12	20	s	18	60	0.038



## Dialysis Pre-Curved Catheter

A pre-curved catheter is designed with a curved shape that helps with the insertion process and ensures proper placement within the vein. The curvature of the catheter makes it easier for the healthcare provider to navigate the blood vessels and position the catheter correctly.

The use of a pre-curved catheter can provide several benefits, including:

1. **Improved Insertion Accuracy:** The pre-curved shape helps guide the catheter through the blood vessels, reducing the risk of complications or improper placement.
2. **Decreased Procedure Time:** The pre-curved catheter saving time during the procedure.
3. **Enhanced Patient Comfort:** The curved design reduces discomfort for the patient by minimizing friction and pressure on the blood vessel walls.



\*NOTE: Other Varieties (Type Y - Safety S - Safety Y) are available upon request

## Double Lumen

### KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 12F X 15cm - 10F X 15cm
4. Scalpel: X1



### Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50320144	11.5	13	s	18	50	0.038
50320145	11.5	16	s	18	50	0.038
50320146	11.5	20	s	18	60	0.038
50320147	11.5	25	s	18	60	0.038

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300154	12	13	s	18	50	0.038
50300155	12	16	s	18	50	0.038
50300156	12	20	s	18	60	0.038



### KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 12F X 15cm - 14F X 15cm
4. Scalpel: X1



### Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50300164	14	13	s	18	50	0.038
50300165	14	16	s	18	60	0.038
50300166	14	20	s	18	70	0.038

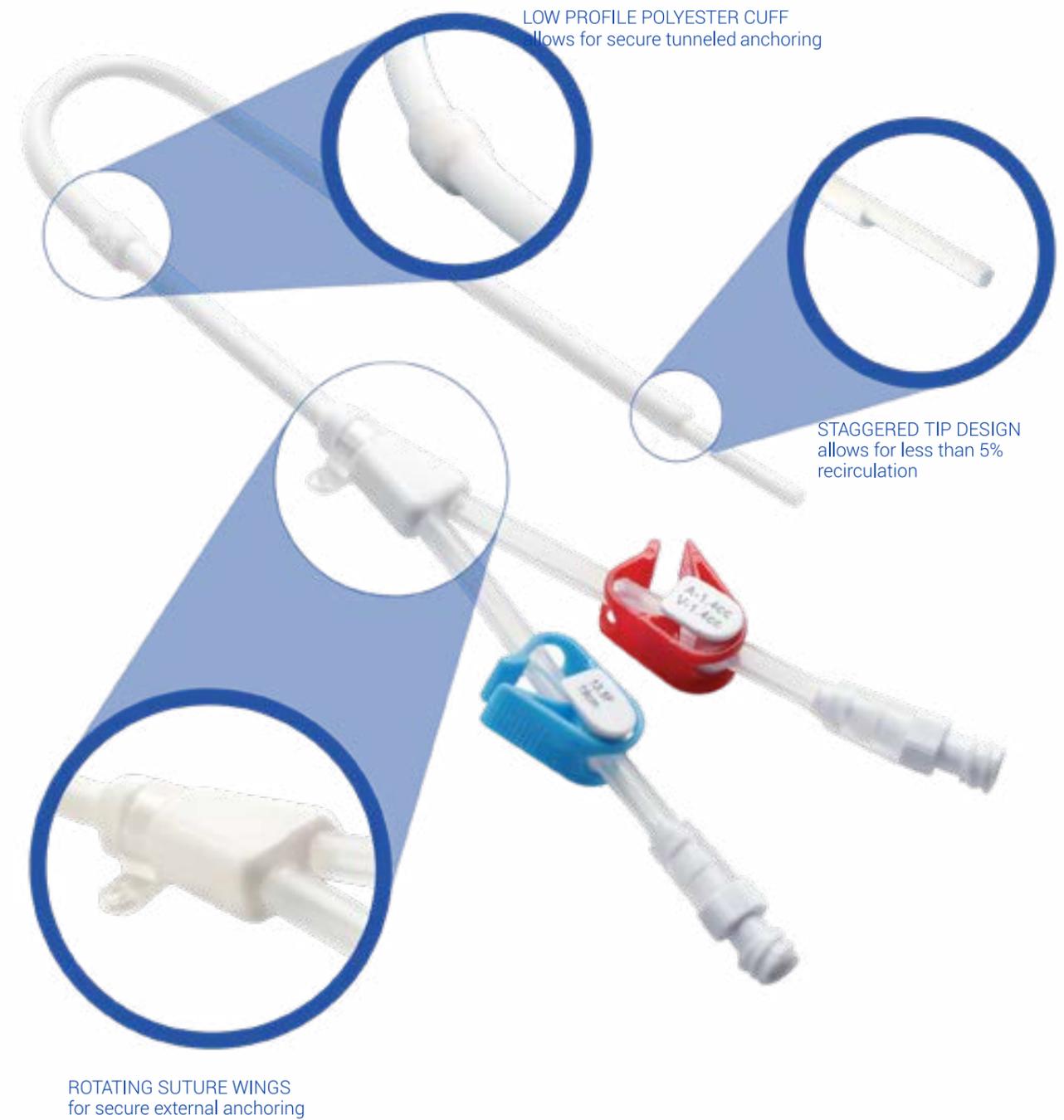


# Long Term Dialysis

A standard dialysis catheter, also known as a tunneled catheter or a central venous catheter, is a type of catheter used for long-term dialysis access in patients with kidney failure. It is inserted into a large vein, typically in the neck or chest area, and remains in place for an extended period.

## Features:

- Dual lumen
- Kink-resistant catheter design
- Catheter available in different lengths
- Available in Straight or curved extension tube



\*NOTE: Other Varieties (Type Y - Safety S - Safety Y) are available upon request

## Double Lumen

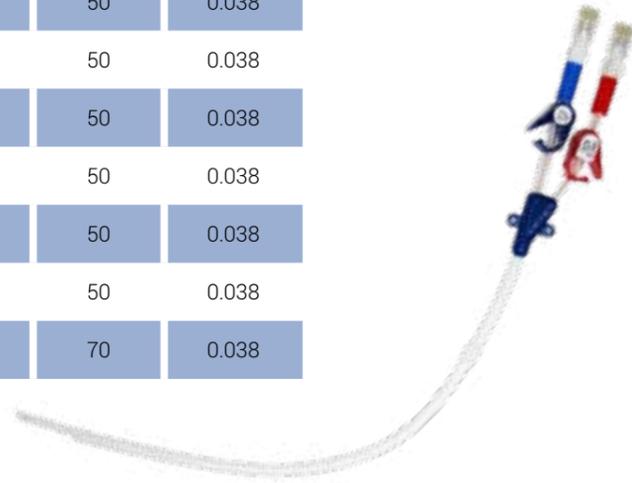
### KIT Includes:

1. Injection Cap: X2
2. Syringe: 5ml
3. Dilator: 10F X 15cm - 12F X 15cm
4. Scalpel: X1
5. Valved Peelable Sheath: X1
6. Tunneler: X1



### Straight Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50340371	12	13	s	20	50	0.038
50340372	15	19	s	18	50	0.038
50340373	15	23	s	18	50	0.038
50340374	15	28	s	18	50	0.038
50340375	15	31	s	18	50	0.038
50340376	15	33	s	18	50	0.038
50340377	15	35	s	18	50	0.038
50340378	15	50	s	18	70	0.038



### Curved Extension Tube

Code	Catheter		Introducer Needle		Nitinol Guide Wire	
	Size (Fr)	Length (cm)	Type	Gauge	Length (cm)	Φ (inch)
50341371	12	13	s	20	50	0.038
50341372	15	19	s	18	50	0.038
50341373	15	23	s	18	50	0.038
50341374	15	28	s	18	50	0.038
50341375	15	31	s	18	50	0.038
50341376	15	33	s	18	50	0.038
50341377	15	35	s	18	50	0.038
50341378	15	50	s	18	70	0.038





# Filtration



# Dialyzer

## Polyethersulfone(PES)

Model			QMI-HD13L	QMI-HD15L	QMI-HD16L	QMI-HD17L	QMI-HD18L	QMI-HD19L	QMI-HD20L	QMI-HD21L	QMI-HD23L	QMI-HD25L
Ultrafiltration Coefficient			39	48	57	60	63	64	67	69	73	77
Surface Area(m <sup>2</sup> )			1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.3	2.5
Chamber volume			84	90	95	101	106	112	120	126	136	146
Clearances (ml/min)			Test Conditions: T=37°C, QF=10ml/min, In Vitro Simulation Experiment									
Solute	QB	QD	(ml/min)									
Urea	200	500	180	184	186	188	190	192	195	196	200	205
	300	500	259	264	267	270	274	277	280	283	289	295
	400	500	292	305	312	318	325	332	340	348	358	364
	200	800	182	187	190	192	194	196	198	200	202	208
	300	800	265	271	274	277	280	283	286	289	295	297
	400	800	295	315	325	332	338	344	350	356	366	374
Creatinine	200	500	164	168	170	173	175	178	180	182	186	190
	300	500	239	243	245	248	250	252	255	258	264	270
	400	500	259	265	268	271	274	277	280	283	289	295
	200	800	165	171	174	177	180	183	186	189	195	201
	300	800	244	248	250	253	256	258	260	262	266	270
	400	800	260	270	275	273	280	283	286	289	295	301
Phosphate	200	500	164	172	176	179	182	185	188	191	197	203
	300	500	244	248	250	253	256	259	262	265	271	277
	400	500	284	290	293	296	298	300	304	308	316	324
	200	800	168	176	180	183	186	189	192	195	201	207
	300	800	247	253	256	259	262	265	268	271	277	283
	400	800	294	298	300	303	305	307	310	313	319	325
Vitamin B <sub>12</sub>	200	500	129	135	138	140	142	144	147	150	156	162
	300	500	159	165	168	171	173	175	178	181	187	193
	400	500	168	176	180	185	188	192	196	200	208	216
	200	800	133	139	142	145	147	149	152	155	161	167
	300	800	165	171	174	177	180	182	186	190	198	206
	400	800	170	182	188	192	196	200	204	208	216	224
β <sub>2</sub> -MG	200	500	52	60	64	67	70	73	76	78	82	86



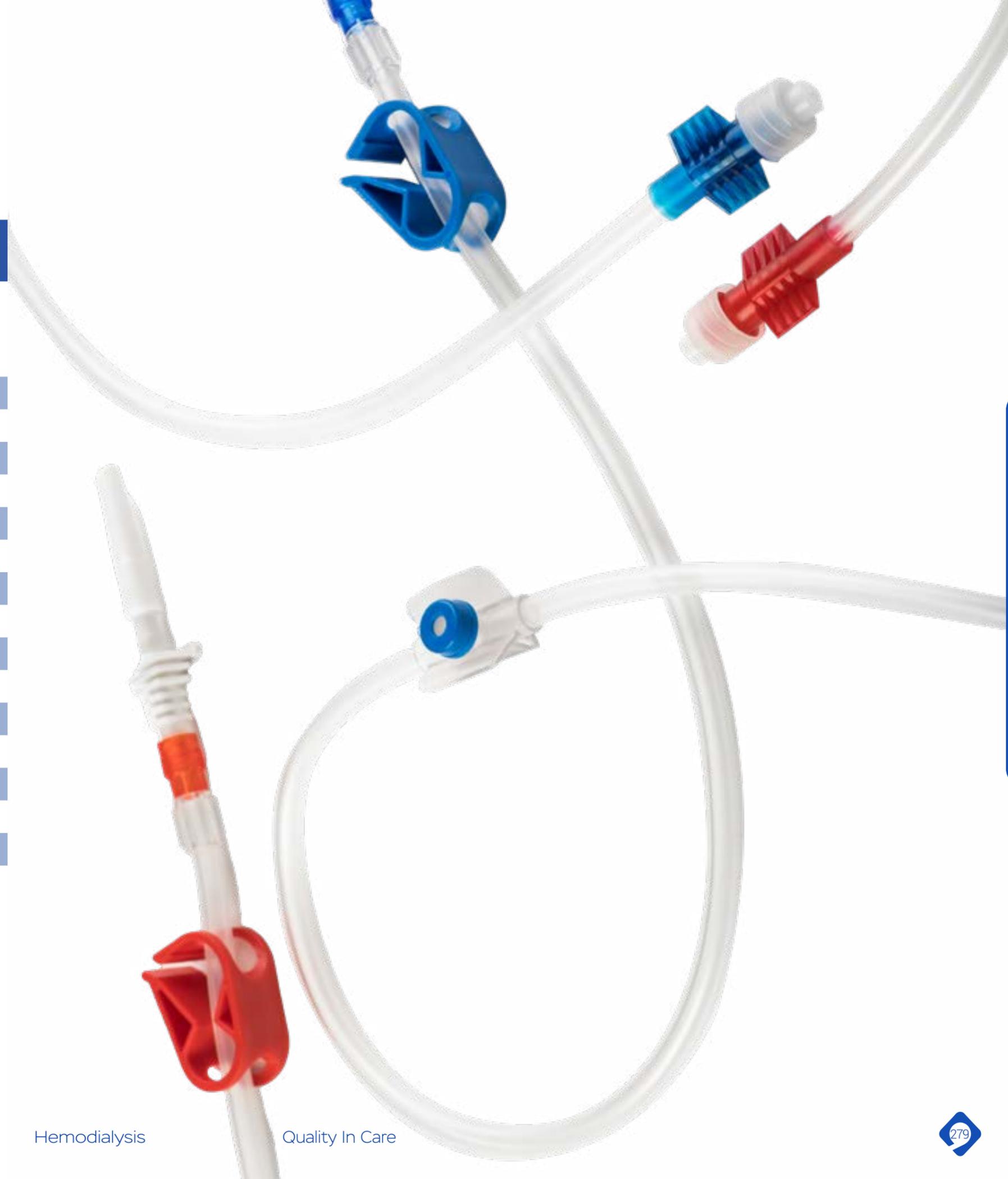
# Polyethersulfone(PES)

Model			QMI-LD13L	QMI-LD14L	QMI-LD15L	QMI-LD16L	QMI-LD17L	QMI-LD18L	QMI-LD19L	QMI-LD20L	QMI-LD21L	QMI-LD23L
Ultrafiltration Coefficient			12	13	13	14	16	17	21	24	25	28
Surface Area(m <sup>2</sup> )			1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.3
Chamber volume			80	85	90	95	101	106	112	118	123	145
Clearances (ml/min)			Test conditions:T=37°C, QF=10ml/min, In Vitro Simulation Experiment									
Solute	QB	QD										
Urea	200	500	178	180	182	185	187	190	192	194	195	205
	300	500	227	230	233	235	238	242	246	250	254	295
	400	500	266	270	274	278	284	290	295	300	305	364
	200	800	183	185	187	189	191	193	195	197	199	208
	300	800	250	255	259	263	266	269	272	275	278	297
	400	800	281	290	298	305	313	322	326	330	334	374
Creatinine	200	500	168	170	172	175	178	182	185	188	191	190
	300	500	211	215	218	220	223	227	231	235	239	270
	400	500	243	247	251	255	260	265	270	275	280	295
	200	800	178	180	182	184	186	188	190	192	194	201
	300	800	234	238	242	245	247	250	255	260	265	270
	400	800	270	275	280	285	290	295	297	300	303	301
Phosphate	200	500	151	155	158	160	164	168	170	172	174	203
	300	500	181	185	188	191	195	200	205	210	215	277
	400	500	205	210	215	220	222	225	232	240	248	324
	200	800	156	160	164	167	169	171	173	175	177	207
	300	800	185	190	195	200	203	207	211	215	219	283
	400	800	220	225	230	235	238	242	246	250	254	325
Vitamin B <sub>12</sub>	200	500	100	103	106	108	114	120	125	130	135	162
	300	500	109	113	116	118	124	130	135	140	145	193
	400	500	122	125	128	130	140	150	155	160	165	216
	200	800	108	112	116	120	122	125	130	135	140	167
	300	800	121	125	128	130	138	145	150	155	160	206
	400	800	136	140	143	145	152	160	165	170	175	224



# BloodLines

Code	Pump Segment ( ID x OD x L ) MM	Chamber OD mm	Machine
50010000	8 X 12 X 360	22	Fresenius 4008B Toray TQS-88 Nipro NCU-18 Gambro(except AK98) Nikkiso DBB-07/DBB-27C B.Braun Dialog+(single pump)
50010001	8 X 12 X 330	22	B.Braun Dialog+
50010002	8 X 12 X 330	22	B.Braun Dialog+
50010003	8 X 12 X 330	22	B.Braun Dialog+
50010004	8 X 12 X 330	22	B.Braun Dialog+
50010005	9.5 x 6.35 x 380	21	Universal\Fresenius
50010006	9.5 x 6.35 x 380	21	Universal\Fresenius
50010007	9.5 x 6.35 x 380	26	Universal\Fresenius
50010008	12 x 8.85 x 380	26	Universal\Fresenius
50010009	12 x 8.85 x 380	26	Universal\Fresenius
50010010	12 x 8.85 x 380	21	Gambro
50010011	12 x 8.85 x 380	21	Gambro
50010012	12 x 8.85 x 380	21	Gambro
50010013	12 x 8.85 x 380	21	Gambro
50010014	12 x 8.85 x 380	26	B.Braun
50010015	13 x 8.85 x 380	26	B.Braun





**Site Care**

# On & Off Kit

An on and off kit for hemodialysis is a sterile set of supplies used to start and stop a hemodialysis treatment. It includes all of the items needed to access the vascular access and connect the patient to the dialysis machine.

## Kit Uses:

- Clean the vascular access site
- Apply a tourniquet
- Insert the needles into the vascular access site
- Connect the needles to the dialysis machine
- Flush the line with saline
- Remove the tourniquet
- Dress the vascular access site



The on and off kit is important for ensuring a safe and effective hemodialysis treatment. It helps to prevent infection and other complications.

## Kit Components:

1. **Gauze Sponges:** Used to clean and absorb blood at the vascular access site.
2. **Cotton Balls:** Used to apply antiseptic solution to the vascular access site.
3. **Antiseptic Solution:** Used to kill bacteria on the skin and prevent infection.
4. **Sterile Gloves:** Worn to protect the patient from infection.
5. **Tourniquet:** Used to temporarily restrict blood flow to the vascular access site to make it easier to insert the needle.
6. **Needles:** Used to access the vascular access site and connect the patient to the dialysis machine.
7. **Syringes:** Used to flush the dialysis line with saline and to administer heparin, a blood thinner.
8. **Needle Holders:** Used to grip and guide the needle during insertion.
9. **Heparin Lock Caps:** Placed on the ends of the dialysis needles to prevent blood clots from forming.
10. **Saline Flushes:** Used to flush the dialysis line with saline before and after each treatment.
11. **Dressings:** Used to cover the vascular access site and protect it from infection

## On Pack (Pre Dialysis)

Content List	Photos
Pack of Swab Sticks	
Tray	
Pair of Latex Gloves	
Waste bag	
10 ml Syringe	
Forceps	
Adhesive Tape	
Gauze Swap	
20 ml Syringe Luer Lock	
Waterproof Drape	

## Off Pack (Post Dialysis)

Content List	Photos
Waterproof Drape	
Pair of Latex Gloves	
10 ml Syringe Luer Lock	
Adhesive Dressing	
Gauze Swap	



# Interventional Radiology



# Interventional Radiology

## Core Biopsy Needle

- A core biopsy needle is used to obtain a core sample of tissue from the body for diagnostic purposes. It is commonly used in procedures such as image-guided biopsies, where the needle is guided by imaging techniques like ultrasound, mammography, or CT scan.
- The core biopsy needle typically consists of a sharp, hollow needle with a cutting edge or notches near the tip. It is inserted into the targeted area, such as a suspicious mass or lesion, and then rotated or advanced to obtain a cylindrical sample of tissue. The needle is then withdrawn, and the tissue sample is sent to a laboratory for analysis.

### Semi Automatic Biopsy

Size (G)	Size (cm)	Code
14	10	90011101
14	15	90011102
14	20	90011103
16	10	90011104
16	15	90011105
16	20	90011106
18	10	90011107
18	15	90011108
18	20	90011109
20	10	90011110
20	15	90011111
20	20	90011112



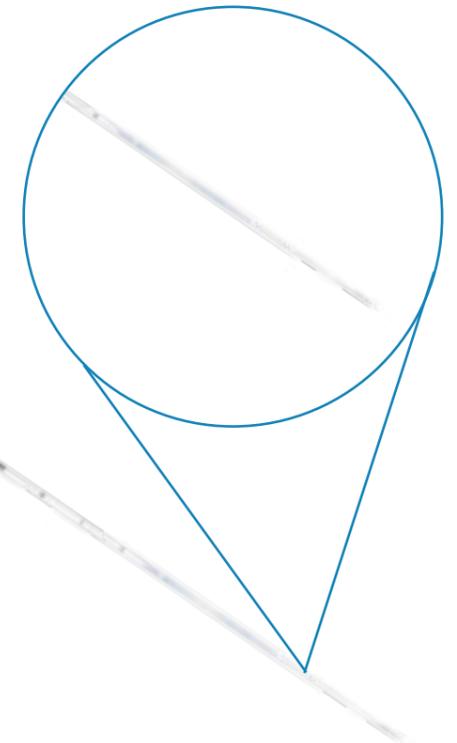
- Color-coding on the stylet advancement piece makes identification of accurate gauge size easy.



- Full loop scissor design to promote easy cocking and excellent maneuverability.

- Centimeter markings on cannula provide depth insertion reference.

- Echogenic needle tip design which provides excellent visualization during procedure.



## Automatic Biopsy

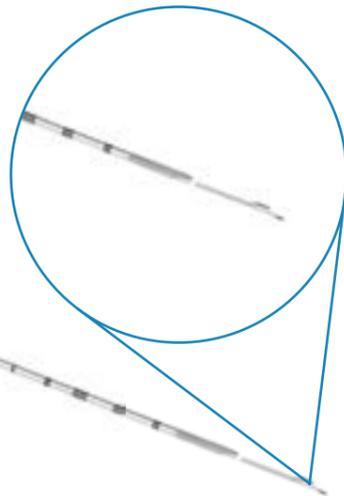
Size (G)	Size (cm)	Code
14	10	90011201
14	15	90011202
14	20	90011203
16	10	90011204
16	15	90011205
16	20	90011206
18	10	90011207
18	15	90011208
18	20	90011209
20	10	90011210
20	15	90011211
20	20	90011212



Centimeter markings on cannula provides depth insertion



Echogenic needle tip design which provides excellent visualization during procedure.



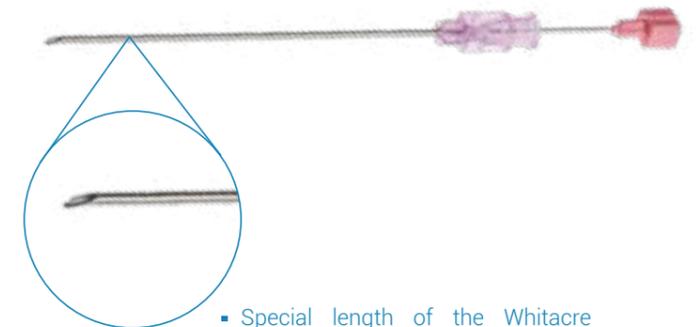
2-Stage fire arming provides reduction of force needed to cock device.

## Spinal Needle

- A spinal needle is used for procedures involving the spinal canal, such as spinal anaesthesia or lumbar punctures. It is a long, thin needle with a sharp tip and a hollow center.
- During a spinal procedure, the spinal needle is inserted through the skin and tissues of the back into the spinal canal. This allows access to the cerebrospinal fluid (CSF) surrounding the spinal cord and brain.

## Quincke Needle

Size (G)	Size (cm)	Code
18	75	90011101
18	90	90011102
19	75	90011103
19	90	90011104
20	75	90011105
20	90	90011106
21	75	90011107
21	90	90011108
22	75	90011109
22	90	90011110
23	75	90011111
23	90	90011112
24	75	90011101
24	90	90011102
25	75	90011103
25	90	90011104
26	75	90011105
26	90	90011106
27	75	90011107
27	90	90011108



Special length of the Whitacre needle to offer a 15mm protrusion.



**SURGERY**

# General Surgery



# Site preparation & Personal Protection

## Surgical Gloves

Surgical gloves are used to maintain a sterile environment and protect both the wearer and the patient from potential infections.

### Latex Gloves, Powder

Size	Code
XS	70006000
S	70006001
M	70006002
L	70006003
XL	70006004
XXL	70006005

Size	Code
Free,XS	70006006
Free,S	70006007
Free,M	70006008
Free,L	70006009
Free,XL	70006010
Free,XXL	70006011

### Vinyl Gloves

Size	Code
XS	70006012
S	70006013
M	70006014
L	70006015
XL	70006016
XXL	70006017

### Nitrile Gloves

Size	Code
XS	70006018
S	70006019
M	70006020
L	70006021
XL	70006022
XXL	70006023

Note : Exam Gloves

### Latex Gloves, Powder

Size	Code
XS	70006100
S	70006101
M	70006102
L	70006103
XL	70006104
XXL	70006105

### Latex Gloves, Powder Free

Size	Code
XS	70006106
S	70006107
M	70006108
L	70006109
XL	70006110
XXL	70006111

### Vinyl Gloves

Size	Code
XS	70006112
S	70006113
M	70006114
L	70006115
XL	70006116
XXL	70006117

### Nitrile Gloves

Size	Code
XS	70006118
S	70006119
M	70006120
L	70006121
XL	70006122
XXL	70006123



## Surgical Gowns

They provide a barrier between clothing & the patient, reducing contamination risk.

### Standard Gown

Types	Size	Code
Light Facric	M	70000700
Light Facric	L	70000701
Light Facric	XL	70000702
Light Facric	XXL	70000703

Note : SMMMS Non-Woven - Latex Free

### Reinforced Gown High Performance

Types	Size	Code
Light Facric	M	70000704
Light Facric	L	70000705
Light Facric	XL	70000706
Light Facric	XXL	70000707

Note : SMMMS Non-Woven - Latex Free

### Advanced Surgical Gown

Types	Size	Code
Facric	M	70000708
Facric	L	70000709
Facric	L Long	70000710
Facric	XL	70000711
Facric	XXL	70000712
Facric	XXXL	70000713
Facric	XXL Long	70000714

Note : SMMMS Non-Woven - Latex Free



## Surgical Masks

Surgical masks, also known as medical masks or procedure masks, are disposable masks commonly used by healthcare professionals during surgical procedures or other medical settings. They are designed to protect both the wearer and others from the spread of respiratory droplets, bacteria, and other particles.

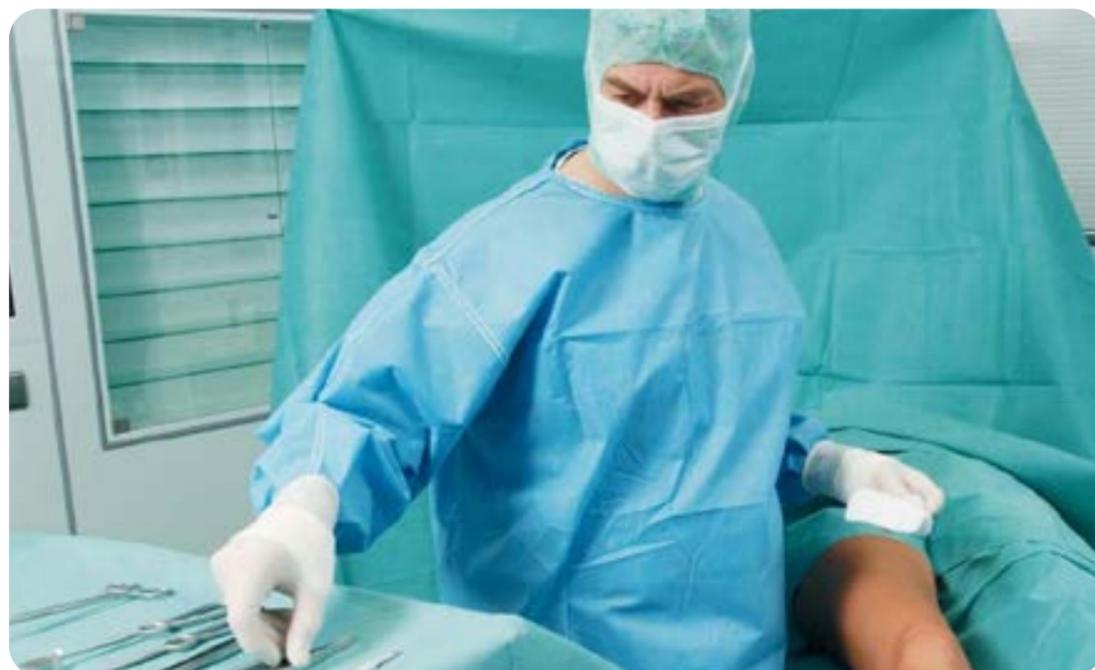
Types	Code
N95 Respirators	70000901
Surgical Masks	70000902
Cloth Masks	70000903
Face Shields (Masks)	70000904

item	Code
N95 Respirators, KN95	70000900
N95 Respirators, KF95	70000910
Surgical Masks	70000920
Cloth Masks	70000930
Face Shields (Masks)	70000940



## Clinical Sets

Types	Set	Code
Dressing Procedure	1	70008100
Dressing Procedure	2	70008101
Dressing Procedure	3	70008102
Dressing Procedure	4	70008103
Disinfection Procedure	5	70008104
Disinfection Procedure	6	70008105
Disinfection Procedure	7	70008106
Suture Procedure	8	70008107
Suture Removal Procedure	9	70008108
Skin Staple Remover Procedure	10	70008109
Catheterization Procedure	11	70008110
Vesical Catheterization	Kits 12	70008111
Minor Surgery Procedure	13	70008112
Emergency Delivery	Kits 14	70008113
Haemodialysis Procedure-Catheter	15	70008114
Haemodialysis Procedure	16	70008115



## Surgical Kits

- Surgical kits, also known as surgical instrument sets or trays, are pre-packaged collections of surgical instruments and supplies used during surgical procedures. These kits are designed to provide healthcare professionals with the necessary tools and equipment in a convenient and organized manner.
- Contents: Surgical kits can vary in size and contents depending on the specific procedure or surgical specialty. They typically include a combination of surgical instruments, such as forceps, scissors, retractors, clamps, and needle holders, as well as other supplies like sutures, gauze, drapes, and dressings.

Items	Code
1	70008000
2	70008001
3	70008002
4	70008003
5	70008004
6	70008005
7	70008006
8	70008007
9	70008008
10	70008009
11	70008010
12	70008011
13	70008012
14	70008013
15	70008014
16	70008015
17	70008016



## Kits Items

Surgical masks, also known as medical masks or procedure masks, are disposable masks commonly used by healthcare professionals during surgical procedures or other medical settings. They are designed to protect both the wearer and others from the spread of respiratory droplets, bacteria, and other particles.

### Major Surgery (Item)

Items	Size
Adhesive Drape	150 x 240 cm 175 x 175 cm 75 x 90 cm
Hand Towel	33 x 30 cm 32 x 30 cm
Instruments Table Cover	150 x 200 cm
Non Woven Swab	10 x 10 cm X-ray 15 x 20 cm X-ray
Scalpel Blade	nr.15 nr.24
Sharps Disposal Pad	
Suction Tube	0,6 x 300 cm
Surgical Bowl Translucent	1000 ml
Surgical Gown	L XL
Texart S - Laparotomy Swab	20 x 40 cm X-ray
Yankauer Suction Tip	24 CH

### Gynaecology (Item)

Items	Size
Hand Towel	33 x 30 cm 32 x 30 cm
Instruments Table Cover	150 x 200 cm
Non Woven Swab	15 x 20 cm 15 x 20 cm X-ray
Scalpel Blade	nr.24
Suction Tube	0,6 x 300 cm
Surgical Bowl Translucent	500 ml
Surgical	gown L
Urology Drape	180 x 200 cm

### Obstetrics (Item)

Items	Size
Baby Blanket	90 x 120 cm
Caesarean Drape	250 x 350 cm
Hand Towel	33 x 30 cm 32 x 30 cm
Instruments Table Cover	150 x 200 cm
Non Woven Swab	15 x 20 cm X-ray
Scalpel Blade	nr.24
Sharps Disposal Pad	
Suction Tube	0,6 x 300 cm
Surgical Bowl Translucent	500ml
Surgical	L XL
Texart S - Laparotomy Swab	20 x 40cm X-ray
Yankauer Suction Tip	22CH

Items	Size (cm)
Adhesive Drape	75 x 90
Baby Blanket	90 x 80
Hand Towel	33 x 30
Legging	75 x 120
Instruments Table Cover	100 x 150
Non Woven Swab	10 x 10
Surgical Drape	75 x 90
Under Buttocks Drape	100 x 110
Towel Clamp	

Items	Size (cm)
Baby Blanket	90 x 80
Instruments Table Cover	100 x 150
Hand Towel	33 x 30
Non Woven Swab	10 x 10
Surgical Drape	45 x 75
Under Buttocks Drape	100 x 110
Towel Clamp	

### Implantology (Item)

Items	Size
Hose Cover	8 x 200 cm
Implantology Drape	150 x 180 cm
Paper Towels	30 x 33 cm
Surgical Drape	100 x 150cm 75 x 90cm
Surgical Bowl Translucent	250 ml
Surgical Gown	L XL

### Laprotomy (Item)

Items	Size
Adhesive Drape	150 x 240 cm 175 x 175 cm 75 x 90 cm 100 x 100 cm
Cautery Tip Cleaner	
Gauze Swab	20 x 15cm X-ray
Hand Towel	33 x 30 cm 32 x 30 cm
Instrument Pouch	42 x 35 cm
Instrument Table Cover	150 x 200 cm
Kidney Tray Translucent	800ml
Needle Counter	
Mayo Stand Cover	80 x 145 cm
Hand Switch Pencil ( Out Of The Pack )	
Op-Tape	10 x 50 cm
Suction Tube	0,7 x 300 cm
Surgical Gown	L XL
Surgical Bowl Translucent	1000 ml
Texart S - Laparotomy Swab	45 X 45 cm X-ray
Yankauer Suction Tip	

### Minor Surgery (Set)

Items	Size
Fenestrated Adhesive Drape	250 x 350 cm
Hand Towel	33 x 30 cm 32 x 30 cm
Instruments Table Cover	150 x 200 cm
Non Woven Swab	10 x 10 cm X-ray 15 x 20 cm X-ray
Surgical Bowl Translucent	500 ml
Scalpel Blade	nr.24
Sharps Disposal Pad	
Surgical Gown	L

## Anesthesia (Item)

Items	Size
Epidural/ Spinal Anesthesia Drape	75 x 90 cm
Kocher Forcep	
Non Woven Swab, Green	10 x 10cm X-ray
Paper Towels	30 x 33cm
Plastic Bag	
Surgical Gown	L
Surgical Bowl Translucent	120 mL
Surgical Drape	75 x 90 cm 100 x 100 cm

## Ent (Item)

Items	Size
ENT Drape	150 x 240 cm
Arm Cover	35 x 73 cm
Hand Towel	33 x 30 cm
OP-Tape	10 x 50 cm
Surgical Gown	L
Instruments Table Cover	150 x 200 cm
Mayo Stand Cover	80 x 145 cm
Non Woven Swab	10 x 10 cm X-ray

## Electrophysiology (Item)

Items	Size
O.R. Towel	45 x 60 cm
Drawsheet	100 x 330 cm
Hand Towel	33 x 30 cm
Instrument Table Cover	150 x 180 cm
Electrophysiology Drape	220 x 315 cm
Tray Blue	27 x 27 x 5 cm
Medical Equipment Cover	100 x 90 cm 80 x 120 cm
Extension Line	150 cm
IV Administration Set	
Surgical Gown	L
Arterial Needle	18 G x 70 mm
Scalpel	nr.11
Foam Applicator	17 cm
Texart S - Swab	10 x 20 cm X-ray
Surgical Bowl Translucent	1000 mL 250 mL
Needle Holder Mayo-Hegar	
Tissue Forcep	
Needle Counter	
Surgical Gown	XL
Luer Lock Syringe	10 ml
Hypodermic Needle	25 G x 5/8 23 G x 1

## Pacing (Item)

Items	Size
Instruments Table Cover	150 x 180 cm
Electrophysiology Drape	220 x 315 cm
Tray Blue	27 x 27 x 5 cm
Non Woven Swabs	10 x10 cm
Foam Applicator	
Kocher Forcep	
Luer Lock Syringe	10 ml
Surgical Bowl Translucent	250 ml
Hypodermic Needle	23 Gx 1 21 Gx 2
Towel Clamp	
Medical Equipment Cover	100 x 90 cm
Surgical Gown	XL L
Hand Towels	33 x 30 cm
Drawsheet	100 x 330 cm

## Podiatry (Item)

Items	Size
Surgical Drape	100 x 100 cm
Podiatry Drape	200 x 150 cm
Surgical Bowl Translucent	250 mL
Kocher Forcep	
Texart S - Swab	10 x 20 cm X-ray

## Vertebroplasty (Item)

Items	Size
Instruments Table Cover	150 x 200 cm
Vertebroplasty Drape	240 x 320 cm
Surgical Bowl Translucent	500 mL 250 mL
Surgical Bowl Blue	250 mL 500 mL
Medical Equipment Cover	80 x 95 cm 100 x 90 cm
Texart S Swab	10 x 20 cm X-ray
Texart S Laparotomy Swab	10 x 40 cm X-ray
Scalpel	nr.11
Foam Applicator	
Temporary Sharps Holder	6 x 3,5 cm
Hand Towel	33 x 30 cm
Surgical Gown	L

Items	Size
Surgical Drape	100 x 100cm
Podiatry Drape With Fluid Pouch	200 x 150 cm
Surgical Bowl Translucent	250 mL
Kocher Forcep	
Texart S - Swab	10 x 20 cm X-ray
Texart S - Laparotomy Swab	10 x 40 cm X-ray



# Surgical Emergencies

## Chest Bottles

- Chest bottles, also known as chest drainage systems or chest tubes, which is used to remove air, fluid, or blood from the chest cavity. They are commonly used in thoracic surgery, trauma cases, or in the management of certain respiratory conditions.
- The chest bottle system works by creating a pressure gradient that allows air or fluid to be drained from the chest cavity. The drainage tube is connected to the collection chamber, which creates a negative pressure environment. This negative pressure helps to remove air or fluid from the chest cavity, promoting lung re-expansion and preventing complications.

Material	System	Code
Glass Bottle System	1 Bottle	70000301
Glass Bottle System	2 Bottle	70000302
Glass Bottle System	3 Bottle	70000303
Plastic System	Thoraseal	70000304
Glass Bottle System	Pleuravac	70000305



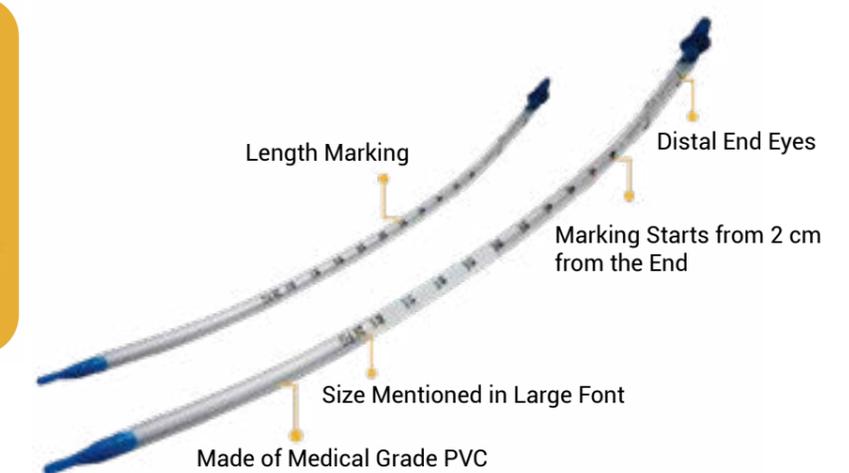
## Chest Tubes

- Chest tubes, also known as thoracostomy tubes or chest drains, which is used to drain air, fluid, or blood from the chest cavity. They are commonly used in various medical situations, including thoracic surgery, trauma cases, or the management of certain respiratory conditions.
- Chest tubes are used to remove unwanted substances such as air, fluid, or blood. Besides, it helps re-establish normal lung function, prevent complications, and promote healing.

Size (Fr)	Code
6	70000401
7	70000402
8	70000403
9	70000404
10	70000405
11	70000406
12	70000407
13	70000408
14	70000409
15	70000410
16	70000411
17	70000412

Size (Fr)	Code
18	70000413
19	70000414
20	70000415
21	70000416
22	70000417
23	70000418
24	70000419
25	70000420
26	70000421
27	70000422
28	70000423
29	70000424

Size (Fr)	Code
30	70000425
31	70000426
32	70000427
33	70000428
34	70000429
35	70000430
36	70000431
37	70000432
38	70000433
39	70000434
40	70000435



## GIT

## Nasogastric Tubes

A nasogastric tube (NG tube) is used to deliver liquid nutrition, medication, or to remove fluids and gases from the stomach. It is a flexible tube inserted through the nose and down into the stomach. Here are some key points about nasogastric tubes:

**Purpose: Nasogastric Tubes Serve Various Purposes, Including:**

1. **Feeding:** They can be used to deliver liquid nutrition directly into the stomach for patients who cannot eat or swallow normally.
2. **Medication administration:** NG tubes are used to administer medications that need to be given directly into the stomach.
3. **Gastric decompression:** They can be used to remove excess fluids, gases, or stomach contents to relieve gastrointestinal distention or prevent vomiting.

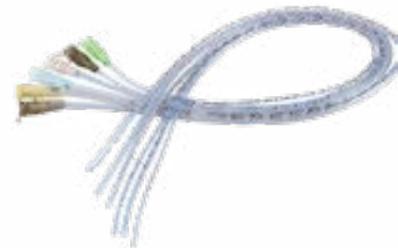
## PVC Adult Feeding Tube

Size (Fr)	Length (mm)	Color	Code
8	105	Blue	11010101
10	105	Black	11010102
12	105	White	11010103
14	105	Green	11010104
16	105	Orange	11010105
18	105	Red	11010106
20	105	Yellow	11010107



## 10 PVC Infant Feeding Tube

Size (Fr)	Length (mm)	Color	Code
4	52	Clear	11010201
5	52	Grey	11010202
6	52	Green	11010203
7	52	Clear	11010204
8	52	Blue	11010205
9	52	Orange	11010206
10	52	Black	11010207



## Ryle's Tube

Size (Fr)	Length (mm)	Color	Code
8	105	Blue	11010301
10	105	Black	11010302
12	105	White	11010303
14	105	Green	11010304
16	105	Orange	11010305
18	105	Red	11010306
20	105	Yellow	11010307



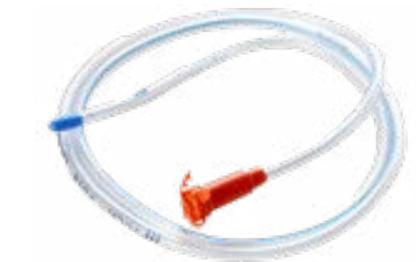
## Levins's Tube

Size (Fr)	Length (mm)	Color	Code
8	122	Blue	11010401
10	122	Black	11010402
12	122	White	11010403
14	122	Green	11010404
16	122	Orange	11010405
18	122	Red	11010406
20	122	Yellow	11010407



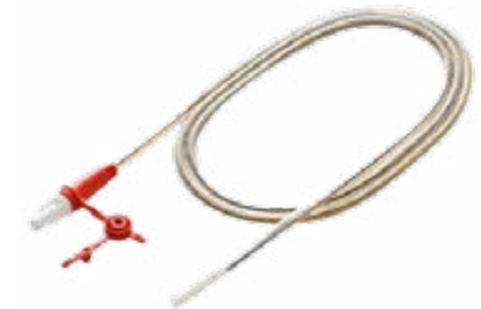
## PU Adult Feeding Tube

Size (Fr)	Length (mm)	Color	Code
12	105	White	11010501
14	105	Green	11010502
16	105	Orange	11010503



## PU Adult Feeding Tube with Stylet

Size (Fr)	Length (mm)	Color	Code
12	105	White	11010601
14	105	Green	11010602
16	105	Orange	11010603



# Gastrostomy Tubes

- A gastrostomy tube, often referred to as a G-tube, which is inserted into the stomach through the abdominal wall. It provides a means for delivering nutrition, medications, or removing stomach contents directly into the stomach.
- Gastrostomy tubes are primarily used for long-term enteral feeding when a patient is unable to consume adequate nutrition orally.
- They are suitable for individuals with conditions such as dysphagia, neurological disorders, or those who have difficulty swallowing or maintaining adequate nutrition orally.

## PEG Tube Single Port

Size (Fr)	Baloon (ml)	Code
12	5	11020101
14	5	11020102
16	15	11020103
18	15	11020104
20	15	11020105
22	15	11020106
24	15	11020107



## PEG Tube Y Port

Size (Fr)	Baloon (ml)	Code
12	5	11020201
14	5	11020202
16	15	11020203
18	15	11020204
20	15	11020205
22	15	11020206
24	15	11020207

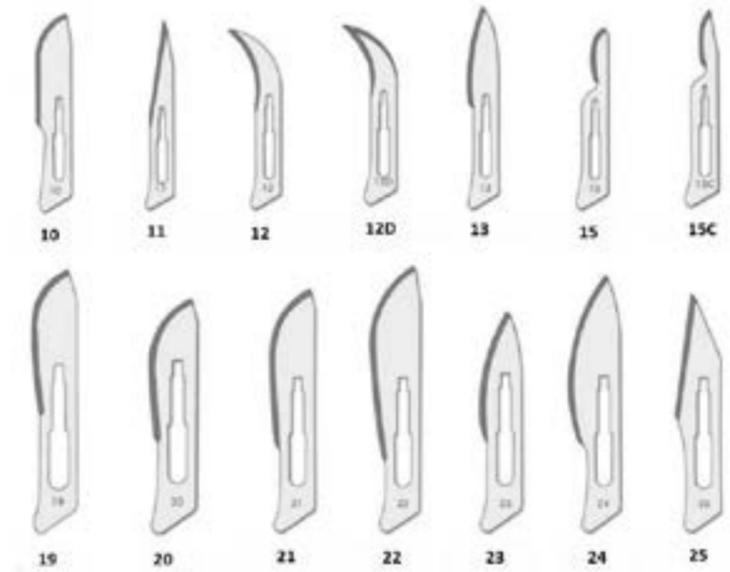


# Surgical Operation

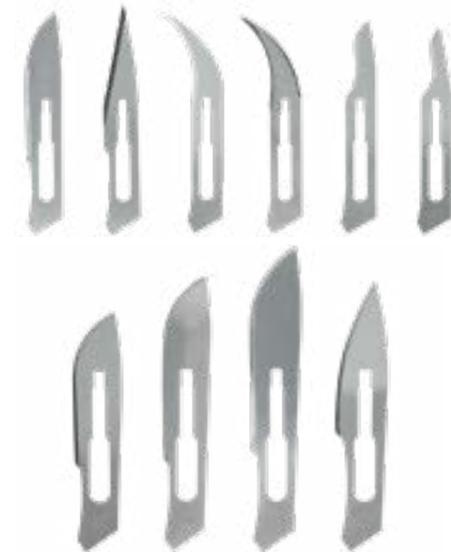
## Surgical Blades

Surgical blades are specialized cutting instruments used in various surgical procedures. They are designed to provide precision and control during incisions, tissue dissection, and other surgical tasks.

Standard Types	Code
# 10	70000500
# 11	70000501
# 12	70000502
# 15	70000503
# 20	70000504
# 21	70000505
# 22	70000506
# 23	70000507



Safety Types	Code
# 10	70000510
# 11	70000511
# 12	70000512
# 15	70000513
# 20	70000514
# 21	70000515
# 22	70000516
# 23	70000517



# Surgical Drapes

Surgical drapes are sterile coverings used during surgical procedures to create a barrier between the surgical site and the rest of the patient's body, as well as the surrounding environment. They help maintain a sterile field by preventing contamination and reducing the risk of surgical site infections.

## Single Plain Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	45 x 50	35	●	SMS	70001000
Protective	45 x 75	40	●	SSMMS	70001001
-	60 x 60	45	○	SMMMS	70001002
-	79 x 90	50	as request	PE + SMS	70001003
-	120 x 150	55	-	PE + Hydrophilic PP	70001004
-	as request	-	-	PE + Viscose	70001005



## Adhesive Side Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	45 x 50	35	●	SMS	70001010
Protective	75 x 75	40	●	SSMMS	70001011
-	75 x 90	45	○	SMMMS	70001012
-	90 x 90	50	as request	PE + SMS	70001013
-	90 x 120	55	-	PE + Hydrophilic PP	70001014
-	90 x 150	-	-	PE + Viscose	70001015
-	120 x 150	-	-	-	70001016
-	as request	-	-	-	-



## Biodegradable Adhesive Side Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	50 x 50	35	●	Wood pulp non-woven	70001020
Protective	75 x 90	40	●	Wood pulp non-woven	70001021
-	90 x 90	45	●	Wood pulp non-woven	70001022
-	100 x 150	50	●	Wood pulp non-woven	70001023
-	120 x 150	55	●	Wood pulp non-woven	70001024
-	as request	-	-	Wood pulp non-woven	-



## Fenestrated Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	50 x 50	35	●	SMS	70001030
Protective	75 x 90	40	●	SSMMS	70001031
-	90 x 90	45	○	SMMMS	70001032
-	100 x 150	50	as request	PE + SMS	70001033
-	120 x 150	55	-	PE + Hydrophilic PP	70001034
-	as request	-	-	PE + Viscose	70001035



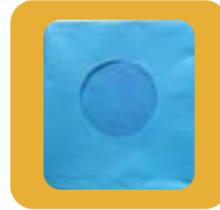
## Adhesive Fenestrated Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	50 x 50	35	●	SMS	70001040
Protective	75 x 90	40	●	SSMMS	70001041
-	90 x 90	45	○	SMMMS	70001042
-	100 x 150	50	as request	PE + SMS	70001043
-	120 x 150	55	-	PE + Hydrophilic PP	70001044
-	as request	-	-	PE + Viscose	70001045



## Dental Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	100 x 150	35	●	SMS	70001050
Protective	100 x 150	40	●	SSMMS	70001051
-	100 x 150	45	○	SMMMS	70001052
-	100 x 150	50	as request	PE + SMS	70001053
-	100 x 150	55	-	PE + Hydrophilic PP	70001054
-	100 x 150	-	-	PE + Viscose	70001055



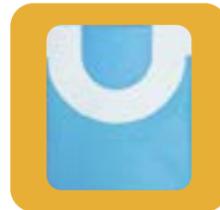
## C-Section Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	250 x 310	20-70	●	SMS	70001080
Protective	250 x 310	customized	●	SSMMS	70001081
-	250 x 310	-	○	SMMMS	70001082
-	250 x 310	-	as request	PE + SMS	70001083
-	250 x 310	-	-	PE + Hydrophilic PP	70001084
-	250 x 310	-	-	PE + Viscose	70001085



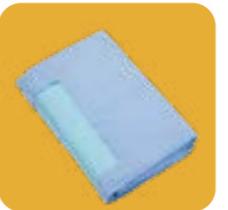
## U Split Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	150 x 180	Absorbant layer 20-80	●	SMS	70001060
Protective	200 x 300	SMS 20-70	●	SSMMS	70001061
-	-	customized	○	SMMMS	70001062
-	-	-	as request	PE + SMS	70001063
-	-	-	-	PE + Hydrophilic PP	70001064
-	-	-	-	PE + Viscose	70001065



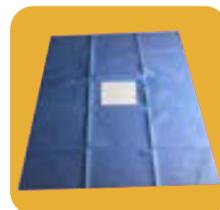
## Extremity Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	270 x 300	35	●	SMS	70001090
Protective	270 x 300	40	●	SSMMS	70001091
-	270 x 300	45	○	SMMMS	70001092
-	270 x 300	50	as request	PE + SMS	70001093
-	270 x 300	55	-	PE + Hydrophilic PP	70001094
-	270 x 300	-	-	PE + Viscose	70001095



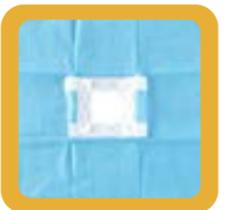
## Ophthalmic Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	25 x 45	35	●	SMS	70001070
Protective	50 x 50	40	●	SSMMS	70001071
-	100 x 120	45	○	SMMMS	70001072
-	120 x 140	50	as request	PE + SMS	70001073
-	150 x 200	55	-	PE + Hydrophilic PP	70001074
-	140 x 140	-	-	PE + Viscose	70001075



## ENT Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	190 x 300	35	●	SMS	70001010
Protective	190 x 300	40	●	SSMMS	70001011
-	190 x 300	45	○	SMMMS	70001012
-	190 x 300	50	as request	PE + SMS	70001013
-	190 x 300	55	-	PE + Hydrophilic PP	70001014
-	190 x 300	-	-	PE + Viscose	70001015



### Laparotomy Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	230 x 307	35	●	Non woven	70001011
Protective	260 x 307	40	●	Non woven	70001012
-	-	45	○	Non woven	70001013
-	-	50	as request	Non woven	70001014
-	-	55	-	Non woven	70001015



### Laparoscopy Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	195 x 250 x300	50	●	SMS	70001012
Protective	200 x 260 x 310	55	●	SSMMS	70001013
-	-	58	○	SMMMS	70001014
-	-	60	as request	PE + SMS	70001015
-	-	-	-	PE + Hydrophilic PP	70001016
-	-	-	-	PE + Viscose	70001017



### Angiography Surgical Drape

Product Type	Size (cm)	Gram Weight	Color	Material	Code
Surgical Consumables	220 x 320	50	●	SMS	70001013
Protective	240 x 370	55	●	SSMMS	70001014
-	80 x 110	58	○	SMMMS	70001015
-	279 x 348	60	as request	PE + SMS	70001016
-	-	-	-	PE + Hydrophilic PP	70001017
-	-	-	-	PE + Viscose	70001018



### Wood Pulp Angiography Surgical Drape

Product Type	Size (cm)	OEM and ODM	Color	Material	Code
Operating Room	220 x 330	Acceptable	●	Wood Pulp	70001014



# After Surgery Care

## Surgical Drainages

The primary purpose of surgical drainage is to remove excess fluids, such as blood, serous fluid, or pus, from the surgical site. By removing these fluids, surgical drainage helps prevent the formation of hematomas, seromas, or abscesses, which can hinder wound healing and increase the risk of infection.

### Silicone Penrose Drainage Tube

- A silicone Penrose drainage tube is a type of surgical drain that is made from high quality medical grade silicone material.
- The Penrose drain is a soft, flexible, and hollow tube used for surgical drainage purposes.
- These drains are biocompatible with a variety of tissue fluids, reduce trauma during insertion and removal, and eliminate the potential for latex induced allergic reactions.
- Silicone Penrose Drains enhance post-operative drainage, promote wound healing, prevent infection, and reduce pain.

Size (mmxcm)	Code
6 x 30	70001000
6 x 50	70001001
10 x 30	70001002
10 x 50	70001003
12 x 30	70001004
12 x 50	70001005
25 x 30	70001006
25 x 50	70001007



### Features

1. **Transparent tube with X-Ray opaque line:** Allows for easy visual inspection and fluid observation.
2. **Blue radiopaque line:** Confirms the positioning of the drain using X-rays.
3. **Internal tread design:** Minimizes tissue in-growth and the potential risk for blockage.
4. **Range of sizes and lengths enables.**

### Silicone Flat Perforated Drainage Tube

A silicone flat perforated surgical drain is a type of surgical drain made from silicone material and designed with a flat shape and perforations along its length. It is used for postoperative drainage purposes to remove excess fluids from surgical sites and promote wound healing.

Size (mm)	Code
7	70001100
10	70001101



Note : Silicone and Flat

### Features

1. **Material:** These drains are made from a biocompatible silicone which is widely used in due to its flexibility, durability, and low risk of causing adverse reactions or allergies in patients.
2. **Perforations:** Silicone flat perforated drains are equipped with multiple small perforations or holes along their length. These perforations allow for the efficient drainage of excess fluids from the surgical site.
3. **Radiopaque:** Many silicones flat perforated drains are radiopaque, meaning they can be visualized on imaging studies such as X-rays.

### Silicone Flat Fluted Drainage Tube

Fluted Flat Drains are manufactured from high-grade biocompatible silicone material for patient comfort and increased tensile strength and are available in a variety of sizes and designs, with or without trocars.

### Features

1. **Multiple drainage channels:** Minimize tissue in-growth and potential risk for blockage
2. **Variety of sizes:** Available in 7mm & 10mm lengths
3. **White drain design:** promotes X-ray opaque effectiveness

Size (mmxcm)	Code
-	70001300
7 x 30	70001301
10 x 20	70001302
10 x 30	70001303



Note : Silicone, Flat

## Silicone Round Perforated Drainage Tube

Size (Fr)	Silicone Round Holes	Code	Size (Fr)	Silicone Round Holes	Code
7	-	70001200	22	5	70001210
15	-	70001201	24	5	70001211
19	-	70001202	26	5	70001212
9	5	70001203	28	5	70001213
10	5	70001204	30	5	70001214
12	5	70001205	32	5	70001215
14	5	70001206	33	5	70001216
16	5	70001207	34	5	70001217
18	5	70001208	36	5	70001218
20	5	70001209			



## Silicone Round Fluted Drainage Tube

Silicone round fluted drains are a type of surgical drain made from silicone material and designed in a cylindrical shape with flutes or ribs along its surface. These drains are specifically designed to facilitate effective postoperative drainage.

### Features

- Unique 4-Channel Profile:** Minimizes tissue in-growth and potential risk for blockage
- Solid central core design:** Offers increased flexibility and strength
- Single extrusion hubless design:** Allows direct transfer of the exudate from the fluted to the round profile
- Clear drain design with full-length radiopaque strip:** Makes repositioning and X-ray detection easy
- Indicator dot:** Ensures a quick and easy placement

Size (Fr)	Code
10	70001400
15	70001401
19	70001402
24	70001403

Note : 30 cm , Silicone, Round, Full



## Silicone Drain Sets

Silicone Drain Sets include **flat** and **round**, **fluted** and **perforated** silicone drains with pre attached trocars and connectors

### Features

1. **Stainless steel trocars:** Provide high performance and operational safety.
2. **High-grade biocompatible silicone drains:** Provide options for your needs and include fluted or perforated and flat or round varieties.
3. **Bendable trocars:** Shaped by the surgeon, facilitate easier placement of the drain.
4. **Custom options:** Customized kits with specific wound drainage components for added convenience.

### Evacuator

It is a device used to remove fluid or air from a surgical site or body cavity. It typically consists of a container or reservoir connected to a tube or catheter that is inserted into the surgical site or cavity. The evacuator creates negative pressure, allowing the fluid or air to be suctioned out effectively. This helps to prevent the accumulation of fluid or air, promoting healing and reducing the risk of complications.

Size (ml)	Code
100	70001500
150	70001501
200	70001502
400	70001503



## Closed Wound Drainage System

- It is used to remove excess fluid or blood from a surgical wound or body cavity. It consists of a drain, tubing, and a collection container. The drain is placed inside the wound or cavity, and the tubing is connected to the drain and leads to the collection container.
- The closed system is designed to create negative pressure, allowing the fluid to be suctioned out and collected in the container. This helps to prevent the accumulation of fluid, which can lead to complications such as infection or delayed healing.

Size (Fr)	Size (mmxcm)	System	Code
10	-	Round	70001600
15	-	Round	70001601
19	-	Round	70001602
-	7 x 20	Flat	70001603
-	10 x 20	Flat	70001604
7	-	Round	70001605

Note : Bulb Drainage Bag, Silicone

Size (Fr)	Code
8	70001610
10	70001611
12	70001612
14	70001613
16	70001614
18	70001615

Note : Hemovac Drainage



## Latex T Tube

The purpose of a T-tube is to facilitate the drainage of bile from the common bile duct into an external collection bag or container. This allows for post-operative monitoring of bile flow and helps to prevent the build-up of bile in the duct, which can lead to complications such as infection or obstruction.

Size (Fr)	Size (cm)	Code
10	15 x 30	70001700
12	15 x 30	70001701
14	15 x 30	70001702
16	15 x 30	70001703
18	15 x 30	70001704
20	15 x 30	70001705
22	15 x 30	70001706
24	15 x 30	70001707
10	20 x 40	70001708
12	20 x 40	70001709
14	20 x 40	70001710
16	20 x 40	70001711
18	20 x 40	70001712
20	20 x 40	70001713
22	20 x 40	70001714
24	20 x 40	70001715



## Suction Catheters

- A suction catheter is used to remove secretions, fluids, or debris from the airways or other body cavities. It is commonly used in respiratory care to clear the airway of patients who have difficulty coughing or clearing their secretions effectively.
- The suction catheter consists of a flexible tube with a rounded tip and multiple side holes near the distal end. The proximal end of the catheter is connected to a suction source, such as a suction machine or wall suction.
- In surgical settings, suction catheters can also play a crucial role in maintaining a clear surgical field and removing fluids from the surgical site.

### Thoracic Trocar Catheter

Length (mm)	Size (Fr)	Code
80	8	70002000
160	10	70002001
160	12	70002002
160	14	70002003
190	16	70002004
350	18	70002005
350	20	70002006
350	24	70002007
350	28	70002008
350	32	70002009
350	36	70002010



### Yankauer Suction

- A Yankauer suction is a type of suction catheter commonly used in medical settings for suctioning fluids and debris from the oral cavity or surgical sites. It is a rigid, curved device with a wide, open tip and multiple side holes.
- The Yankauer suction is typically connected to a suction source, such as a suction machine or wall suction, via a flexible tubing. It is commonly used during surgical procedures, in post-operative care, or in general patient care to remove fluids, blood, or other debris from the oral cavity.



#### Features

1. **Efficient suctioning:** The wide, open tip and multiple side holes of the Yankauer suction allow for effective suctioning of fluids and debris from the oral cavity or surgical sites.
2. **Rigid design:** The rigid design of the Yankauer suction provides better control and manoeuvrability during suctioning.
3. **Easy to clean:** Yankauer suctions are typically made of durable materials, which can be easily cleaned and sterilized for reuse.

### Yankauer Handle

Tip	Vent	Code
Crown	With	70002100
Crown	Without	70002101
Plain	With	70002102
Plain	Without	70002103
Round	With	70002104
Round	Without	70002105



### Suction Connecting Tubing

Size (mm)	m	Code
5	1.8	70002200
5	3	70002201
5	3.6	70002202
6	1.8	70002203
6	3	70002204
6	3.6	70002205
7	1.8	70002206
7	3	70002207
7	3.6	70002208



### Suction Connecting Tube with Yankauer Handle

Size (mm)	Crown Tip Size	Vent	Code
5	1.8	with	70002300
5	1.8	without	70002301
5	3	with	70002302
5	3	without	70002303
5	3.6	with	70002304
5	3.6	without	70002305
6	1.8	with	70002306
6	1.8	without	70002307
6	3	with	70002308

Size (mm)	Crown Tip Size	Vent	Code
6	3	without	70002309
6	3.6	with	70002310
6	3.6	without	70002311
7	1.8	with	70002312
7	1.8	without	70002313
7	3	with	70002314
7	3	without	70002315
7	3.6	with	70002316
7	3.6	without	70002317



# Endoscopic Surgery

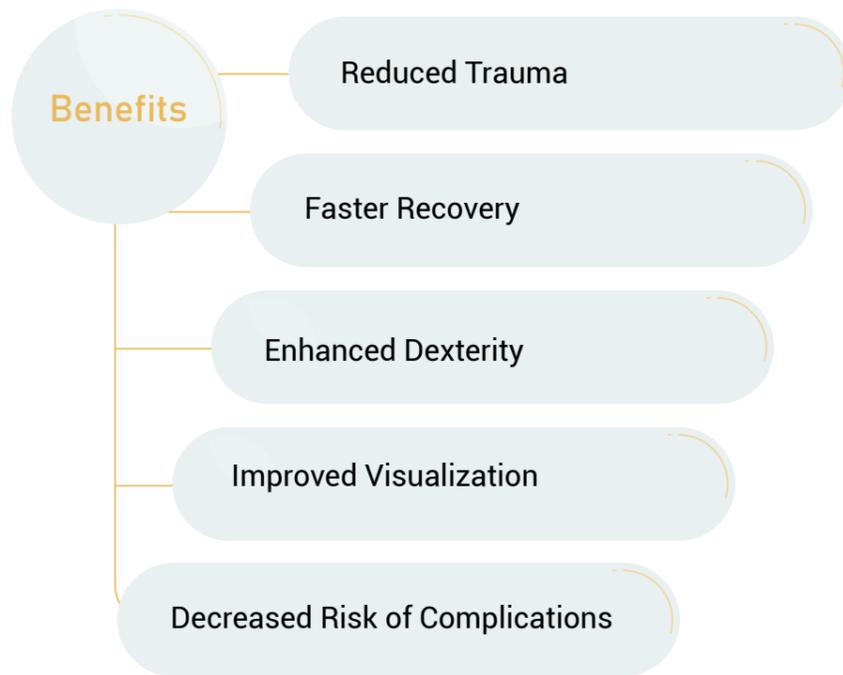


# Access

## Trocars

- Trocars are medical devices used in minimally invasive surgical procedures. They consist of a sharp, pointed instrument with a sleeve or cannula that allows access to the surgical site.
- Trocars are commonly used in laparoscopic surgeries, where small incisions are made to insert the trocars, enabling the introduction of other surgical instruments and a camera for visualization.

Types	Code
Optical Trocar	70010100
Bladeless Trocar	70010101
Bladed Trocar	70010102
Hasson Trocar	70010103
Blunt Trocar	70010104
Non-Valved Trocar	70010105



## Insufflation Needles

- Insufflation needles are surgical instruments used in laparoscopic procedures to introduce carbon dioxide (CO2) gas into the abdominal cavity.
- This process is essential for creating a pneumoperitoneum, which is a controlled inflation of the abdominal cavity with gas to create a working space for laparoscopic instruments.
- The function of insufflation needles is to penetrate the abdominal wall and allow the controlled flow of gas into the abdominal cavity.

Needle	Code
Safety Hypodermic	70010601
Disposable Hypodermic	70010602
Disposable Dental	70010603
Beauty Micro	70010604
Disposable Filter	70010605
Safety Filter	70010606
Blunt Tip	70010607



# Stapling

## Surgical Staplers

### Endo Staplers

Endo staplers are surgical devices used in various minimally invasive surgical procedures, particularly in gastrointestinal and thoracic surgeries. They are designed to securely staple and cut tissues or vessels during the procedure.

### Endoscopic Linear Cutter Stapler

Trocar (port, mm)	Diameter (mm)	Puncture (length, mm)	Shaft Length (mm)	Code
-	-	-	200	70012000
-	-	-	250	70012001
-	-	-	350	70012002
5	5.8	110	200	70012003
5	5.8	110	250	70012004
5	5.8	110	350	70012005
10	11	110	200	70012006
10	11	110	250	70012007
10	11	110	350	70012008
12	13	110	200	70012009
12	13	110	250	70012010
12	13	110	350	70012011
15	16	110	200	70012012
15	16	110	250	70012013
15	16	110	350	70012014



### Skin Stapler

System	Types	Code
-	35 Regular Staples	70012100
Appose Single Use Skin Stapler	35 Wide Staples	70012101
Appose Single Use Skin Stapler	35 Regular Staples & Remover Unit	70012102
Appose Single Use Skin Stapler	35 Wide Staples & Remover Unit	70012103
Single Use Fascia Stapler	Stainless Steel Staples	70012104
MultiFire Premium Single Use Skin Staplers	35 Regular Staples, Reloads & Remover	70012105
MultiFire Premium Single Use Skin Staplers	35 Wide Staples, Reloads & Remover	70012106



### Circular Stapler

Size	Size	Color	Size (mm)	Code
-	-	-	28	70012200
-	-	-	31	70012201
Medium	1		21	70012202
Thick	1		21	70012203
Medium	2	●	21	70012204
Thick	2		21	70012205
Medium	1		25	70012206
Thick	1		25	70012207
Medium	2	○	25	70012208
Thick	2		25	70012209
Medium	1		28	70012210
Thick	1	●	28	70012211
Medium	2		28	70012212
Thick	2		28	70012213
Thick	1		31	70012214
Thick	1	●	31	70012215
Thick	2		31	70012216
Thick	2	●	31	70012217



### EEA Hemorrhoid and Prolapse Stapler Set

Size	Color	Code
33		70012218
33		70012219



### Premium, Staple Line Diameter

Size (mm)	Code
21	70012220
25	70012221
28	70012222
31	70012223
34	70012224



### Open Staplers

- Open staplers refer to surgical staplers used in traditional open surgeries. These staplers are manually operated instruments used to secure and close tissues during surgical procedures.
- Open staplers are commonly used in various types of surgeries, including gastrointestinal, thoracic, and general surgeries. They allow surgeons to quickly and effectively create staple lines to close or divide tissues, such as the stomach, intestines, or blood vessels.

### Open Linear Stapler Kit

Size (mm)	Code	Note
60	70012300	
80	70012301	
100	70012302	
60	70012303	-Kit
80	70012304	-Kit
100	70012305	-Kit
60	70012306	-With Retractor
80	70012307	-With Retractor
100	70012308	-With Retractor
Shaft Length 30	70012309	
Shaft Length 45	70012310	
Shaft Length 60	70012311	
Shaft Length 90	70012312	
Shaft Length 30	70012313	
Shaft Length 45	70012314	
Shaft Length 60	70012315	
Shaft Length 90	70012316	
Shaft Length 30	70012317	
Shaft Length 45	70012318	
Shaft Length 60	70012319	
Shaft Length 90	70012320	

### Premium Poly Open Stapler

Size (mm)	Code	Note
14	70012321	-Knife
170	70012322	-Knife
140	70012323	-
170	70012324	-
140	70012325	-Knife & Retractor
170	70012326	-Knife & Retractor



## Reloads

- Reloads refer to disposable cartridges that contain the staples used in the stapling process. These reloads are inserted into the stapler device to supply the necessary staples for closing or dividing tissues during surgery.
- When a reload is inserted into the stapler, it aligns the staples with the anvil or cutting edge of the stapler. This allows the surgeon to close or divide tissues by firing the stapler, which simultaneously cuts and secures the tissue using the staples in the reload.

### Linear Stapler Reloads

Open Staple Height (mm)	Closed Staple Height (mm)	Cartridge Color	Code
2.0±0.2 mm	0.75±0.2 mm	●	70010401
2.5±0.2 mm	1.0±0.2 mm	○	70010402
3.5±0.2 mm	1.5±0.2 mm	●	70010403
3.8±0.2 mm	1.8±0.2 mm	●	70010404
4.1±0.2 mm	2.0±0.2 mm	●	70010405
4.3±0.2 mm	2.3±0.2 mm	●	70010406



### Circular Stapler Reloads

Open Staple Height (mm)	Closed Staple Height (mm)	Cartridge Color	Code
2.0±0.2 mm	0.75±0.2 mm	●	70010407
2.5±0.2 mm	1.0±0.2 mm	○	70010408
3.5±0.2 mm	1.5±0.2 mm	●	70010409
3.8±0.2 mm	1.8±0.2 mm	●	70010410
4.1±0.2 mm	2.0±0.2 mm	●	70010411
4.3±0.2 mm	2.3±0.2 mm	●	70010412



### Curved Stapler Reloads

Open Staple Height (mm)	Closed Staple Height (mm)	Cartridge Color	Code
2.0±0.2 mm	0.75±0.2 mm	●	70010413
2.5±0.2 mm	1.0±0.2 mm	○	70010414
3.5±0.2 mm	1.5±0.2 mm	●	70010415
3.8±0.2 mm	1.8±0.2 mm	●	70010416
4.1±0.2 mm	2.0±0.2 mm	●	70010417
4.3±0.2 mm	2.3±0.2 mm	●	70010418



### Powered Stapler Reloads

Open Staple Height (mm)	Closed Staple Height (mm)	Cartridge Color	Code
2.0±0.2 mm	0.75±0.2 mm	●	70010419
2.5±0.2 mm	1.0±0.2 mm	○	70010420
3.5±0.2 mm	1.5±0.2 mm	●	70010421
3.8±0.2 mm	1.8±0.2 mm	●	70010422
4.1±0.2 mm	2.0±0.2 mm	●	70010423
4.3±0.2 mm	2.3±0.2 mm	●	70010424



## Open Surgery

Types	Code
Scalpels	70010301
Retractors	70010302
Forceps	70010303
Scissors	70010304
Clamps	70010305



# Clips

Clips used in laparoscopy serve as a means of hemostasis (controlling bleeding) or tissue approximation during surgical procedures. They are small metal or polymer devices that are applied to secure or close blood vessels, ducts, or other tissues.

## Clips Functions

- **Hemostasis:** Clips can be used to seal blood vessels or control bleeding.
- **Tissue approximation:** Clips can also be used to hold tissues together, ensuring proper alignment and positioning during laparoscopic surgeries.
- **Ligation:** Clips can act as a form of ligation, which involves sealing off or occluding vessels or ducts. This can be done to prevent the flow of fluids or substances through certain structures, such as bile ducts or fallopian tubes.

Types	Code
Hemostatic Clips	70010500
Aneurysm Clips	70010501
Ligating Clips	70010502
Endoscopic Clips	70010503

Types	Code
Hemostatic Clips	70010500



Types	Code
Endoscopic Hemoclip	70010510
Cerebral Aneurysm Clip YASARGIL	70010511
Cerebral Aneurysm Clip Sugita	70010512
Perneczky Aneurysm Clip	70010513



# After Surgery Care

## Endo Bag

- An endo bag, also known as an endoscopic retrieval bag or specimen retrieval bag, is a medical device used during laparoscopic or minimally invasive surgeries.
- It is designed to safely and efficiently remove specimens or tissue fragments from the body cavity after surgery.
- The bag has an open end or a closure mechanism (such as a drawstring or zipper) for easy insertion and closure.

Variations	Code
Open-Ended Bags	70010700
Closed-Ended Bags	70010701
Specimen Retrieval Pouches	70010702
Laparoscopic Tissue Retrieval Systems	70010703

Variations	Code
CITEC EndoBag	70010710
ReliaCatch Specimen Retrieval Bag	70010711
Endo Catch Specimen Retrieval Pouch	70010712
Endo Bag Specimen Retrieval System	70010713





**WOUND CARE**

# Advanced Wound Care



# Advanced Wound Care



## The Journey from Prevention To Odour Management

- Prevention: **Advanced Debridement**
- Exudate Management Infection: **Silicon & Ag**
- Odour Management: **Charcoal**

## Debridement Dressings

### Amorphous Hydrogel

Amorphous hydrogels are considered ideal candidates for dressings due to their excellent biocompatibility. In addition, their three-dimensional structure can provide an adequate platform to generate a supportive structure in the wound bed, creating a barrier for mechanical protection and thermal insulation.

### Features

Crystal Clear wound gel dressing "**Easy observation**" helps provide the optimal environment for natural wound healing

Moist Equilibrium: **Releases moisture & absorbs exudate**

### Indications

- Venous "**leg**" Ulcers
- Bedsores
- Diabetic Foot Ulcers
- Cavity or Sinus Wounds
- First and second-degree burns
- Cool, pain-relieving dressing for painful wounds

### Amorphous Hydrogel

Size (G)	Code
15	60200101
20	60200102
25	60200103

### Silver Wound Gel

It is an opaque, amorphous hydrogel containing an antimicrobial silver compound, which is an effective barrier to bacterial penetration that inhibits the growth of a broad spectrum of microorganisms that come into contact with the gel.

This formulation increases the moisture within the wound through water donation, which makes the gel effective in assisting the debridement and desloughing process in dry necrotic wounds, that also maintaining a moist wound environment for optimal wound healing.

### Indications

- Pressure ulcers
- Lacerations and abrasions
- Graft and donor sites
- Diabetic ulcers
- Leg ulcers
- First- and second-degree burns
- Post-operative surgical wounds
- Trauma wounds

Size (G)	Code
25	60200204
42.5	60200205
85	60200206



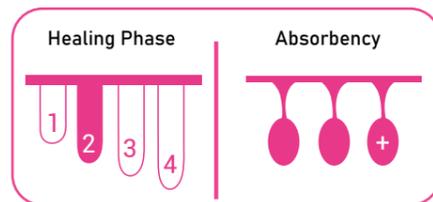
# Antibacterial Dressings

## Silicone Ag Foam Dressing

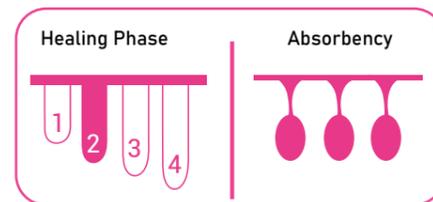
- Silicone Ag Foam Dressing has excellent performance in exudate management and antibacterial effect. Its soft material and strong adaptability provide optimal moist wound environment to accelerate wound healing.
- The silver foam core not only absorbs exudate, but also releases silver ions for up to %99.99 antibacterial effect of a wide range of bacteria, while the perforated silicone wound contact layer minimizes trauma and reduces pain during dressing changes.



Border



Non-Border



## Silicone Ag Foam Dressing without Border

Size (cm)	Code
5 x 5	60210101
10 x 10	60210102
15 x 15	60210103
20 x 15	60210104
20 x 20	60210105
50 x 20	60210106
12.5 x 20 For Sucrum	60210107
20 x 13 For Heal	60210108



## Silicone Ag Foam Dressing with Border

Size (cm)	Code
5 x 5	60210209
10 x 10	60210210
15 x 15	60210211
20 x 10	60210212
30 x 10	60210213
7.5 x 5 Oval	60210214
17.5 x 17 For Sucrum	60210215
25 x 23.5 For Heal	60210216



## Silver PU Antibacterial Foam without Border

Silver PU Antibacterial Foam Dressing Pads Bundled with Transparent Dressing are made of polyurethane foam, polyvinyl alcohol, silver sulfate, and silver chloride. Highly absorbent foam dressing pad with ionic silver as the active component.

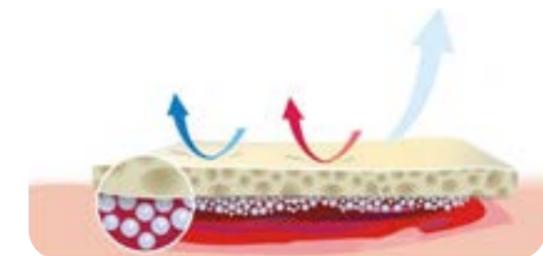
Size (cm)	Code
5 x 5	60210317
10 x 10	60210318
15 x 15	60210319
20 x 15	60210320
20 x 20	60210321



## Alginate PHMB Dressing with Border

A sterile dressing containing the antimicrobial substance polyhexamethylene biguanide (PHMB, polyhexanide), which kills bacteria & inhibits its growth. PHMB released in the presence of wound exudate is an effective antimicrobial agent against a broad spectrum of microorganisms.

Size (cm)	Code
5 x 5	60210422
10 x 10	60210423
15 x 15	60210424
20 x 10	60210425
30 x 2	60210426



## Exudate Management Dressings

They are designed to manage fluid levels, also maintaining periwound skin integrity and can be used as a secondary dressing. Exudate promotes healing by maintaining a moist wound environment, aiding the migration of tissue-repairing cells, enabling the diffusion of nutrients & immune and growth factors.

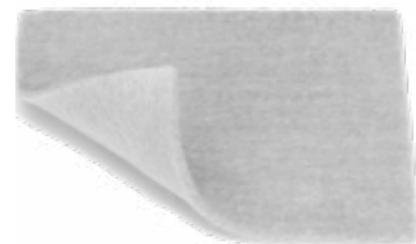
### Silver Alginate Dressing

Size (cm)	Code
5 x 5	60210527
10 x 10	60210528
15 x 15	60210529
20 x 10	60210530
20 x 20	60210531
30 x 1	60210532
30 x 30	60210533



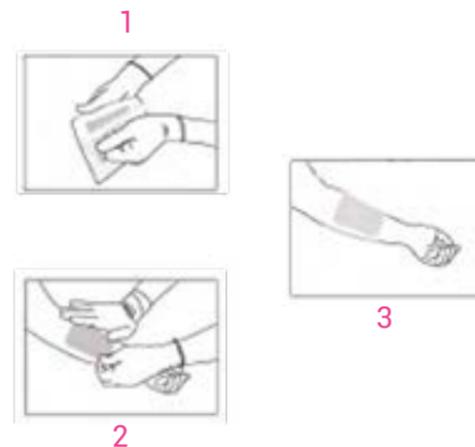
### Extra Silver Alginate Dressing For Heavy Infection

Size (cm)	Code
5 x 5	60210634
10 x 10	60210635
15 x 15	60210636
20 x 10	60210637
30 x 2	60210638



### Sterile PHMB Foam Dressing without Border

Size (cm)	Code
5 x 12.5	60210739
9 x 9	60210740
10 x 15	60210741
10 x 25	60210742
15 x 20	60210743
20 x 25	60210744



## Bleeding Management Dressings

Bleeding management dressings, also known as hemostatic dressings, are specialized dressings used to control & manage bleeding from wounds. These dressings are designed to facilitate clotting & promote hemostasis.

### Sterile PHMB Foam Dressing without Border

Size (cm)	Code
7.5 x 7.5	60210845
7 x 9	60210846
10 x 15	60210845
10 x 25	60210848
15 x 15	60210849
15 x 20	60210850
20 x 20	60210851
20 x 25	60210852



### Sterile Silicone PHMB Foam Dressing without Border

Size (cm)	Code
5 x 12.5	60210953
10 x 10	60210954
10 x 12.5	60210955
10 x 25	60210956
15 x 20	60210957
20 x 25	60210958



## Odor Management Dressing

### Activated Charcoal with Silver Wound Dressing

Size (cm)	Code
10 x 15	60220101
20 x 20	60220102



### Sterile Activated Charcoal Super Absorbent

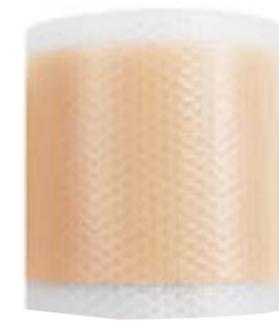
Size (cm)	Code
7.5 x 7.5	60220203
10 x 10	60220204
15 x 15	60220205
10 x 20	60220206
20 x 20	60220207
20 x 25	60220208



## Scar Care Dressings

### Silicone Gel Scar Dressing

Size (cm)	Code
3 x 7	60230101
15 x 12	60230102
30 x 5	60230103



### Silicone Wound Contact Dressing Single Side Adhesive

Size (cm)	Code
7 x 5	60230204
10 x 7.5	60230205
16 x 8	60230206
10 x 10	60230207
15 x 15	60230208
20 x 30	60230209



### Silicone Wound Contact Dressing Double Sided Adhesive

Size (cm)	Code
7 x 5	60230310
10 x 7.5	60230311
16 x 8	60230312
10 x 10	60230313
15 x 15	60230314
20 x 30	60230315



## Honey Alginate Dressing

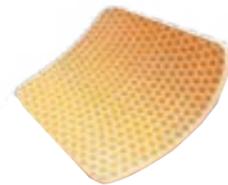
### Collagen Dressing

Size (cm)	Code
2.5 x 2.5	60240101
5 x 5	60240102
10 x 10	60240103
10 x 15	60240104



### Honey Dressing

Size (cm)	Code
5 x 5	60210205
10 x 10	60210206



### Honey Alginate Dressing

Size (cm)	Code
5 x 5	60240307
10 x 10	60240308



### Alternating Air Mattress

Size	Code
200 cm (L) x 90 cm (W) x 7.0 cm (H)	60240409



## Exudate Dressings

### Burn Gel Dressing

Size (cm)	Code
5 x 5	60250101
5 x 15	60250102
10 x 10	60250103
20 x 20	60250104
30 x 30	60250105
3 x 40	60250106
40 x 60	60250107
120 x 160	60250108



### Foam Dressing Non Border

Size (cm)	Code
5 x 5	60250209
10 x 10	60250210
15x15	60250211



### Foam Dressing with Backing

Size	Code
5 x 5	60350312
10 x 10	60350313
15 x 15	60350314
15 x 20	60350315
20 x 20	60350316
12.5 x 10 Tracheostomy	60350317
13 x 10 Heal	60350318



## Silicone Foam Dressing Non Border

Size	Code
5 x 5	60250522
10 x 10	60250523
15 x 15	60250524
20 x 13 Heal	60250525
10x9Tracheostomy	60250526



## Silicone Foam Dressing with Border

Size	Code
5 x 5	60250627
10 x 10	60250628
15 x 15	60250629
20 x 10	60250630
17.5 x 17 Sucrum	60250631
23 x 23 Sucrum	60250632
25 x 23.5 Sucrum	60250633



## Foam Dressing with Border

Size (cm)	Code
10 x 10	60250419
15 x 15	60250420
22 x 22	60250421



## Super Absorbent Dressing

Size (cm)	Code
10 x 10	60250734
10 x 20	60250735
15 x 25	60250736
20 x 20	60250737
20 x 30	60250738
20 x 40	60250739



## Hydrocolloid Wound Dressing

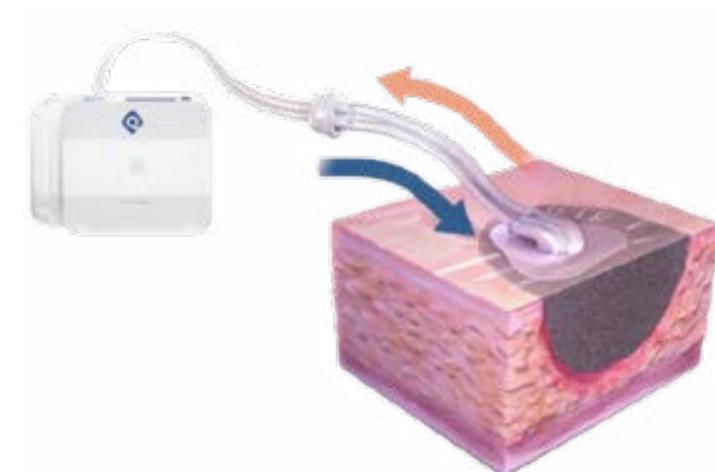
Size (cm)	Code
5 x 5	60250840
10 x 10	60250841
15 x 15	60250842



## NPWT Dressing

(including Black Foam, Adhesive Film, Tube with the Pad, I/Y Connector, Clip)

Size (cm)	Code
10 x 7x 3	60250943
15 x 10 x 3	60250944
20 x 10 x3	60250945
25 x 15 x 3	60250946
30 x20 x 3	60250947



# Bleeding Management Dressings

## Trauma Gauze

Size (cm)	Code
90 x 10	60260208
100 x 10	60260209
200 x 10	60260210
100 x 14	60260211



## Soluble Hemostatic Gauze

Size (cm)	Code
3 x 3	60260101
5 x 5	60260102
7.5 x 5	60260103
10 x 8	60260104
10 x 10	60260105
10 x 20	60260106
35 x 5	60260107



## Absorbable Gauze

Size (cm)	Code
2 x 3	60260312
3 x 5	60260313
5 x 5	60260314
5 x 7.5	60260315
5 x 8	60260316
5 x 10	60260317
7 x 8	60260318
5 x 25	60260319
5 x 30	60260320
5 x 35	60260321
10 x 10	60260322
10 x 15	60260323
10 x 20	60260324
22.5 x 22.5	60260325
30 x 30	60260326
30 x 50	60260327



# General Wound Care



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# General Wound Care

## Gauze Products

### Gauze Swab

Gauze swabs are ideal for cleaning around a wound prior to dressing & also help to stop the blood flow.

#### Sterile Gauze Swab ,Thread 13 with X Ray Detectable

Layer	Size (cm)	Code
8	7.5 x 7.5	60000101
8	10 x 10	60000102
8	10 x 20	60000103
12	5 x 5	60000104
12	7.5 x 7.5	60000105
12	10 x 10	60000106
12	10 x 20	60000107
12	30 x 30	60000108
12	45 x 45	60000109
12	5 x 5	60000110
16	7.5 x 7.5	60000111
16	10 x 10	60000112
16	45 x 45	60000113



#### Sterile Gauze Swab ,Thread 17 with X Ray Detectable

Layer	Size (cm)	Code
8	7.5 x 7.5	60000214
8	10 x 10	60000215
8	10 x 20	60000216
12	5 x 5	60000217
12	7.5 x 7.5	60000218
12	10 x 10	60000219
12	10 x 20	60000220
12	30 x 30	60000221
12	45 x 45	60000222
16	5 x 5	60000223
16	7.5 x 7.5	60000224
16	10 x 10	60000225
16	45 x 45	60000226
32	5 x 5	60000227



#### Non Sterile Gauze Swab ,Thread 13

Layer	Size (cm)	Code
8	5 x 5	60000328
8	7.5 x 7.5	60000329
8	10 x 10	60000330
8	10 x 20	60000331
12	5 x 5	60000332
12	7.5 x 7.5	60000333
12	10 x 10	60000334
12	10 x 20	60000335
16	5 x 5	60000336
16	7.5 x 7.5	60000337
16	10 x 10	60000338
32	7.5 x 7.5	60000339



## Non Sterile Gauze Swab ,Thread 17

Layer	Size (cm)	Code
8	5 x 5	60000440
8	7.5 x 7.5	60000441
8	10 x 10	60000442
8	10 x 20	60000443
12	5 x 5	60000444
12	7.5 x 7.5	60000445
12	10 x 10	60000446
12	10 x 20	60000447
16	5 x 5	60000448
16	7.5 x 7.5	60000449
16	10 x 10	60000450
32	7.5 x 7.5	60000451
33	10 x 10	60000452



## Non-Woven Swab

Size (cm)	Code
5 x 5	60000553
7.5 x 7.5	60000553
10 x 20	60000553



## Lap Sponges

These types of medical sponges are mainly used for surgical procedures, containment of bleeding, clinical cleanliness in general, protection of wounds.

### Sterile Lap Sponges , Thread 13 with X-Ray Detectable

Layer	Size (cm)	Code
4	22.5 x 22.5	60010101
4	20 x 30	60010102
4	30 x 30	60010103
4	45 x 45	60010104
4	45 x 70	60010105



### Non Sterile, Folded Edge - Thread 13

Layer	Size (cm)	Code
8	5x5	60010311
8	7.5 x 7.5	60010312
8	10 x 10	60010313
8	10 x 20	60010314
12	5 x 5	60010315
12	7.5 x 7.5	60010316
12	10 x 10	60010317
12	10 x 20	60010318
16	5 x 5	60010319
16	7.5 x 7.5	60010320
16	10 x 10	60010321
16	30 x 30	60010322
32	7.5 x 7.5	60010323



## Sterile Lap Sponges , Thread 17 with X-Ray Detectable

Layer	Size (cm)	Code
4	22.5 x 22.5	60010206
4	20 x 30	60010207
4	30 x 30	60010208
4	45 x 45	60010209
4	45 x 70	60010210



## Non Sterile, Folded Edge - Thread 17

Layer	Size (cm)	Code
8	5 x 5	60010424
8	7.5 x 7.5	60010425
8	10 x 10	60010426
8	10 x 20	60010427
12	5 x 5	60010428
12	7.5 x 7.5	60010429
12	10 x 10	60010430
12	10 x 20	60010431
16	5 x 5	60010432
16	7.5 x 7.5	60010433
16	10 x 10	60010434
16	30 x 30	60010435
32	7.5 x 7.5	60010436



## Non Sterile Unfolded - Thread 13

Layer	Size (cm)	Code
8	5 x 5	60010537
8	7.5 x 7.5	60010538
8	10 x 10	60010539
8	10 x 20	60010540
12	5 x 5	60010541
12	7.5 x 7.5	60010542
12	10 x 10	60010543
12	10 x 20	60010544
16	5 x 5	60010545
16	7.5 x 7.5	60010546
16	10 x 10	60010547
16	30 x 30	60010548
32	7.5 x 7.5	60010549



## Gauze Pads

Gauze Pads are great for treating minor cuts, scrapes, and burns. They can be used to absorb fluids and provide a semi-permeable barrier over a wound. They can also be used to apply ointments or rub cleansing fluids such as isopropyl alcohol onto a wound site or incision.

## Non-Adhesive Pad

Size (cm)	Code
5 x 5	60020101
10 x 10	60020102
20 x 10	60020103
10 x 23	60020104



## Non-Adhesive Pads

Size (cm)	Code
5 x 5	60020205
7.5 x 7.5	60020206



## Gauze Eye Pad

Size (cm)	Code
5.5x7.6	60020307



## Bandages

A bandage is used in combination with a dressing where a wound is present. A roller bandage is used to secure a dressing in place. A triangular bandage is used as an arm sling or as a pad to control bleeding.

### Elastic Bandage

Size (cmxmm)	Code
2.5 x 4.5	60030101
5 x 4.5	60030102
7.5 x 4.5	60030103
10 x 4.5	60030104
15 x 4.5	60030105



## Impregnated Gauze

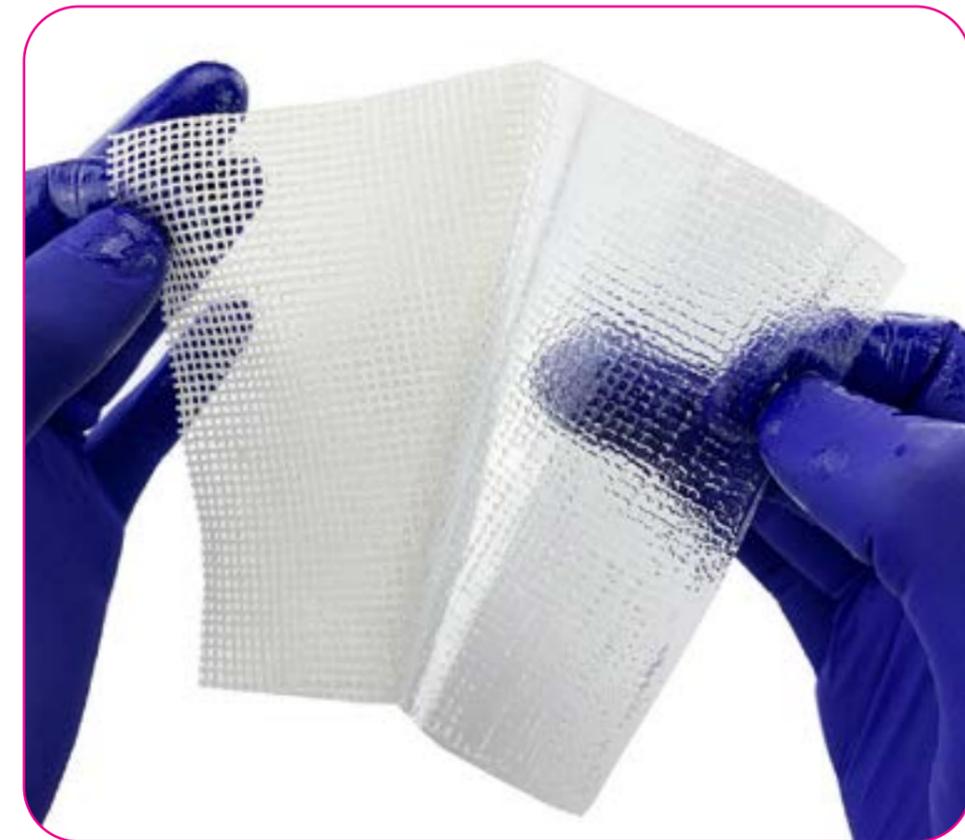
It is mostly used over a badly injured area, severe burns and chronic infections. Petrolatum gauze is used to cover the skin graft to keep it moist and to increase attachment. This dressing will protect the open area from bacteria.

### Paraffin Gauze

Size (cm)	Code
5 x 5	60040101
10 x 10	60040102
15 x 15	60020103
12.5 x 22.5	60020104

### Chlorhexidine Gauze Dressing

Size (cm)	Code
5 x 5	60040205
10 x 10	60020206



# Adhesive Wound Dressing

## Post Operative Dressings

### Non-Woven

- Non-woven dressings are **flexible and conform to the contours of the body**, ensuring a comfortable fit & **minimizing discomfort for the patient**.

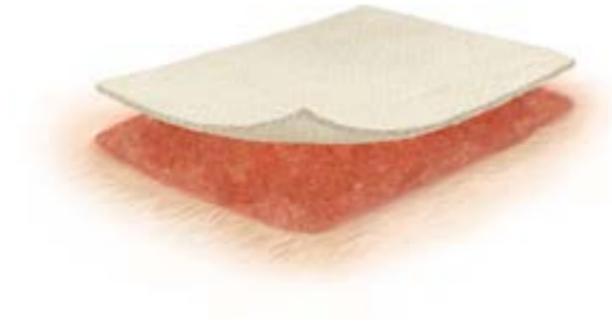
### Features

- Soft and elastic structure
- Hypoallergenic
- Sterile and single package
- Air permeable
- X-Ray permeable
- Single use



### Non-Woven Postoperative Dressing

Size (cm)	Code
9 x 10	60110101
9 x 25	60110102
10 x 10	60110103
10 x 12	60110104
10 x 15	60110105
10 x 20	60110106
10 x 25	60110107
10 x 30	60110108



### Transparent Postoperative Dressing

- Waterproof
- Visual control of wounded surface
- Soft and elastic structure
- Hypoallergenic
- Prevents bacterial invasion & reduces the risk of infection
- Sterile & single package
- Air permeable

Size (cm)	Code
9 x 10	60110209
9 x 25	60110210
10 x 10	60110211
10 x 12	60110212
10 x 15	60110213
10 x 20	60110214
10 x 25	60110215
10 x 30	60110216

## Fixation Dressing

### Non- Woven Cannula Fixation Dressing:

Non-Woven cannula fixation dressing consists of soft non-woven fabric. It ensures that the cannula is properly fixed to the body.

#### Features

1. Soft and elastic structure
2. Hypoallergenic
3. Sterile and single package
4. Air permeable

### Transparent Cannula Fixation Dressing

#### Features

1. Waterproof
2. Soft and elastic structure
3. Hypoallergenic
4. Sterile and single package

Size (cm)	Code
4 x 6	60120207
6 x 7	60120208
7 x 9	60120209
8 x 6	60120210
8.5 x 10	60120211
9 x 12	60120212



### Foley Catheter Holder

- A Foley catheter holder, also known as a catheter securement device, is a specialized device used to secure and hold a Foley catheter in place. It helps provide stability and security for the catheter, reducing the risk of complications and ensuring uninterrupted urine drainage.
- They typically consist of a strap or harness that wraps around the leg or abdomen, with a mechanism to secure and adjust the tension of the holder.

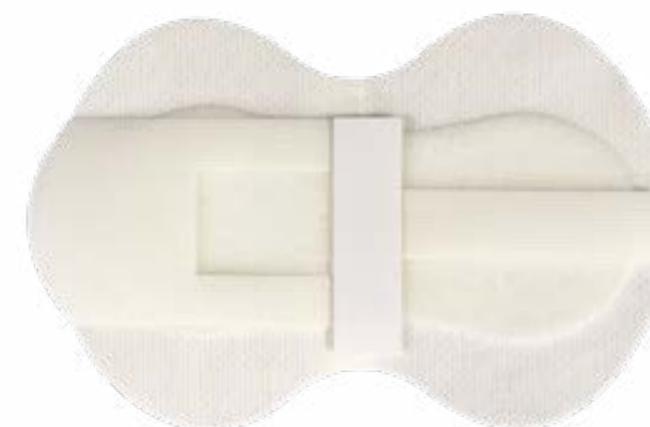
Size (cm)	Code
3 X 9	60120313



### Indwelling Needle Fixation Device

It is used for the fixation of catheters, such as indwelling needles, epidural catheters, central venous catheters, etc.

Size (cm)	Code
3 X 9	60120414



## Urethral Catheter Fixation Device

It is used for the fixation of catheters, such as indwelling needles, epidural catheters, central venous catheters, etc.

Size (cm)	Code
3 x 9	60120515
6 x 11	60120516



## I.V. Advanced Securement Dressing

It is used for the fixation of catheters, such as indwelling needles, epidural catheters, central venous catheters, etc.

Size (cm)	Code
2 x 8	60120617



### Features

1. Fixed firmly
2. Reduce patients pain
3. Convenient for clinical operation
4. Prevention of catheter detachment & movement

## Band Aid

### Injection Spot

Injection spot, also known as injection site dressings or adhesive bandages, are used to cover and protect the site where an injection or venipuncture (blood draw) has been performed. These dressings serve several purposes, including:

1. **Sterile Barrier** : helping to prevent contamination and reduce the risk of infection.
2. **Protection & Cushioning** : The dressing acts as a protective layer over the injection site, and minimize discomfort or bruising.
3. **Absorption of Fluids** : that helps absorb any minor bleeding from the injection site, also keeping the area clean and dry.
4. **Adhesion & Securement** : Injection spot dressings are designed with adhesive properties to ensure they stay in place during movement and daily activities.

Size (mm)	Code
72 x 19	60130101
56 x 19	60130102
40 x 10	60130103
22	60130104



# Tape

## Silk Tape

Silk tape, also known as surgical tape or medical tape, is a type of adhesive tape commonly used in healthcare settings for various purposes. It is made from a fabric material with a silk-like texture & is typically coated with an adhesive on one side

Size (cm x yard)	Code
1.25 x 10	60100101
2.5 x 10	60100102
5 x 10	60100103
7.5 x 10	60100104



## Features

1. Good adhesion for damp & dry skin
2. Conformable and highly breathable
3. Easy to peel off without causing discomfort
4. Easy to cut to shape

## Uses

1. Surgical incisions
2. Superficial wounds
3. Closed blisters
4. Non-exudating wounds

## Non-Woven Tape

Non-woven tape, also known as non-woven adhesive tape or non-woven medical tape, is a type of medical tape commonly used in healthcare settings for securing dressings, bandages, or other medical devices.

Size (cmxmm)	Code
1.25 x 5	60100205
2.5 x 5	60100206
5 x 5	60100207
10 x 5	60100208
7.5 x 5	60100209



## Features

1. Provide excellent permeability to air and moisture
2. Micropores allow the skin to breathe which helps speed up wound recovery
3. Highly tensile strength, not easy to break, easy to tear off
4. Long holding time, with smooth cutting surface, no sensitization
5. A variety of sizes for all clinical requirements

## Uses

### Fixing All Kinds of Dressings, Syringe Needs, Catheters etc.

1. Surgical incisions
2. Superficial wounds
3. Skin tears
4. Closed blisters
5. Non-exudating wounds

## PE Tape

- It is a kind of tape made of Polyethylene (PE) and medical hypoallergenic adhesive. Breathable with reliable adhesiveness, low sensitization, excellent compliance and no residue glue.
- It is used in surgical operation, for the fastening of dressing or catheter, in sports protection and industrial packaging as well.

Size (cmxmm)	Code
1.25 x 5	60100310
2.5 x 5	60100311
5 x 5	60100312
7.5 x 5	60100313



- Air-permeable, hypoallergenic
- Easy to tear off making usage **very convenient** & comfortable.
- Breathable, with reliable **adhesiveness and low sensitization**.
- Made from **non-stretch polyethylene** film with high tensile strength.

## Paper Tape

Paper tape provides better support, is more versatile and care free, while being easier to use & less expensive than Steri Strips.

### Features

- Gentle to skin
- Hypoallergenic and can be used long term
- Its breathable (speeding up healing)



### Uses

- Securing small to medium dressing especially on damp skin
- Securing lightweight tubing
- When repeated taping is needed

Size (cm x yard)	Code
1.25 x 10	60100414
2.5 x 10	60100415
5 x 10	60100416
7.5 x 10	60100417

## Foam Tape

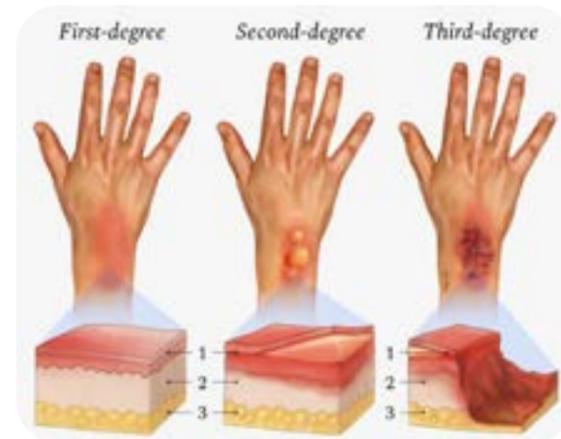
Foams are comfortable, highly absorbent dressings that keeps wounds moist and clean. Breathable so allows extra moisture to evaporate away from the skin, while providing a waterproof barrier that prevents bacterial contamination.



## Wound Types

- Suitable for light to heavily exuding wounds
- Stage I–IV Pressure ulcers, Venous
- Arterial leg ulcers, diabetic foot ulcers
- 1st & 2nd degree burns
- Traumatic wounds

Size (cmxmm)	Code
2.5 x 5	60100518
5 x 5	60100519
10 x 5	60100520



## Silicone Tape

- Reduces pain & trauma before, at and after dressing change & has low potential for irritation, allergy.
- Does not adhere to the moist wound bed but only the dry skin.

Size (cmxmm)	Code
2.5 x 1.5	60100621
3.5 x 1.5	60100622
4 x 1.5	60100623
7.5 x 1.5	60100624
9.5 x 1.5	60100625
4 x 3	60100626



## Wound Types

- Pressure, Venous/Arterial leg ulcers and Diabetic foot ulcers
- Traumatic/Surgical wounds, Donor sites and Skin Tears
- 1st and 2nd degree burns

## Non-Woven Wound Closure Strips

- Light beige colour blends with skin tone
- Use for primary, non-suture closures
- Sterile - Hypoallergenic

## Features

1. Less Noticeable - light colour blends with many skin tones for a more cosmetically pleasing appearance.
2. Non-invasive, sterile design helps improve cosmetic outcomes with less tissue trauma than sutures or staples.
3. Breathable & comfortable to wear.
4. Hypoallergenic adhesive.

Size (mm)	Code
3 x 75	60100727
6 x 38	60100728
6 x 75	60100729
6 x 100	60100730
12 x 50	60100731
12 x 100	60100732
12 x 125	60100733
25 x 100	60100734



# Lancets

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## Standard Blood Lancet

- A lancet is a small, sharp, and pointed medical device used for pricking the skin to obtain a blood sample for various purposes, such as blood glucose monitoring or other diagnostic tests. It is commonly used by individuals with diabetes to check their blood sugar levels
- Lancets are designed to create a small puncture in the skin, typically on the fingertip, to produce a small droplet of blood. They are usually disposable and come in various sizes and gauges, with thinner gauges causing less pain during the pricking process

### Disposable (Twisted Head)

Size (G)	Color	Code
18		12010101
21		12010102
23		12010103
26		12010104
28		12010105
30		12010106
33		12010107



## Safety Lancet

- A safety lancet, also known as a safety needle or auto-retractable lancet. It is used for obtaining a blood sample for diagnostic purposes
- The key feature of a safety lancet is its automatic retraction mechanism. After the lancet is used to prick the skin and obtain a blood sample, the device automatically retracts the needle into a protective housing to prevent accidental needlestick injuries

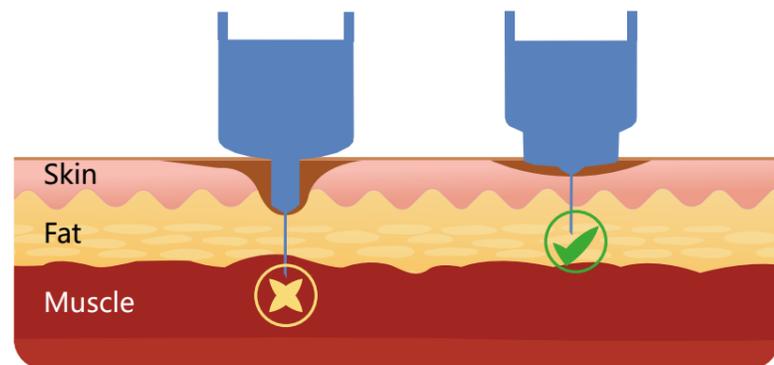
### Pressure Activated (Press 2)

Size (G)	length (mm)	Color	Code
18	1.8		12020111
21	1.8		12020121
21	2.2		12020121
21	2.8		12020121
23	1.8		12020131
26	1.8		12020141
28	1.8		12020151
30	1.8		12020161



## Pressure Activated (Press Plus)

Size (G)	length (mm)	Color	Code
18	1.8	●	12020211
21	1.8	●	12020221
21	2.2	●	12020221
21	2.8	●	12020221
23	1.8	○	12020231
26	1.8	●	12020241
28	1.8	●	12020251
30	1.8	●	12020261



## Button Activated

Size (G)	length (mm)	Color	Code
18	1.8	●	12020311
21	1.8	●	12020321
21	2.4	●	12020322
26	1.8	●	12020341
26	2.4	●	12020342
28	1.8	●	12020351



## Depth Adjustable

Size (G)	Color	Code
21	●	12020402
23	●	12020403
26	●	12020404
28	●	12020405
30	●	12020406



## Note:

Available in Length : 1.3mm 1.8mm 2.3mm

## Pressure Activated Disposable Safety Lancets (Impress)

Size (G)	length (mm)	Color	Code
21	2.2	●	12020523
21	1.8	●	12020522
26	1.8	●	12020542
28	1.8	●	12020552
30	1.5	●	12020562





**THANK YOU  
FOR WATCHING**