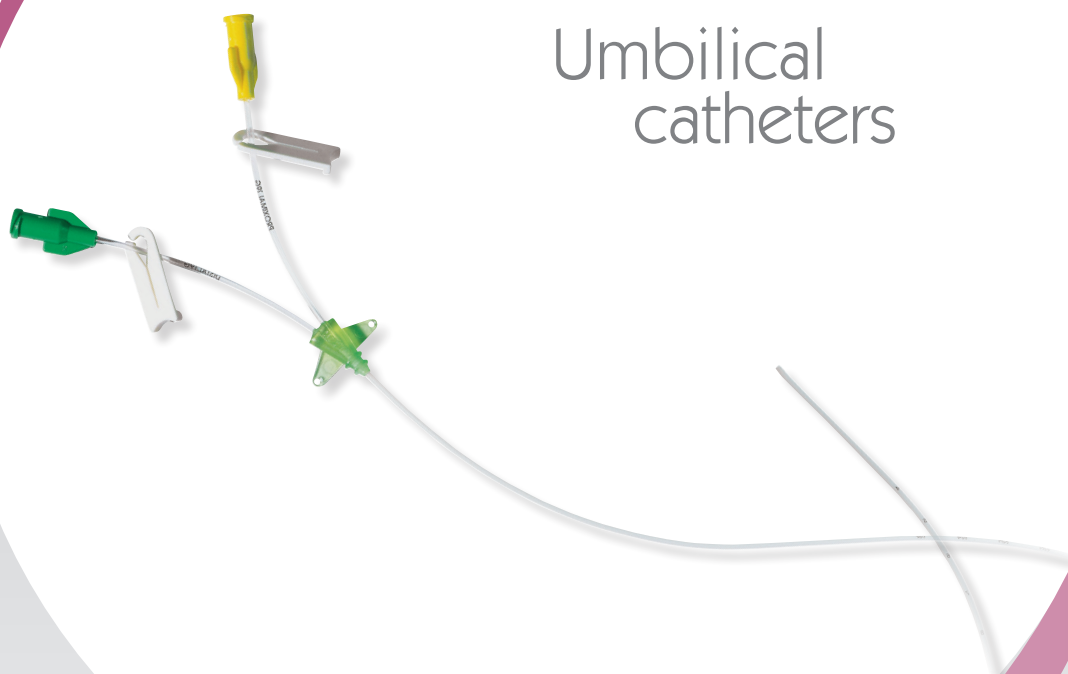


NEONATOLOGY
Vascular access

Umbilical
catheters



Venous umbilical catheterisation

Single-lumen umbilical venous catheters are used for:

- Infusions of parental nutrition
- Infusions of medication
- Venous blood sampling
- Exchange transfusion

Large size (up to 8 Fr)

33.

→ Efficient flowrate

Code	Size	Material	Length	Flow rate
I270.02	2.5Fr	PUR	30 cm	> 2 ml/min
I270.03	3.5Fr	PUR	40 cm	> 10 ml/min
I270.04	4Fr	PUR	40 cm	> 10 ml/min
I270.05	5Fr	PUR	40 cm	> 20 ml/min
I270.08	8Fr	PUR	40 cm	> 70 ml/min
270.03	3.5Fr	PVC DEHP-free	40 cm	> 6 ml/min
270.04	4Fr	PVC DEHP-free	40 cm	> 15 ml/min
270.05	5Fr	PVC DEHP-free	40 cm	> 28 ml/min
270.06	6Fr	PVC DEHP-free	40 cm	> 57 ml/min
270.07	7Fr	PVC DEHP-free	40 cm	> 90 ml/min
270.08	8Fr	PVC DEHP-free	40 cm	> 95 ml/min

PUR or PVC catheters

- PVC DEHP-FREE → easy to insert
- PUR → good haemocompatibility (reduced risk of thrombosis)
+ comfortable

Luer-lock connector

Efficient connection
(no risk of leakage or disconnection)

All radiopaque catheter

Control of catheter positioning under X-ray

Numerical marking every cm

Easy check of the length of catheter inserted

Colour-coded hubs

Easy identification and safety

Clamps

To close the lumen

Soft fixation wings

Comfortable & easy to fix

PUR catheter

Good haemocompatibility
(reduced risk of thrombosis)
Softens at body temperature

Double-lumen catheter

- Infusion of incompatible drugs (avoid drugs mixing)
- Infusion of medication and nutrition at the same time
- Reduces the need for additional access

Code	Size	Material	Length	Priming volume	Flow rate
I272.14	4Fr	PUR	20 cm	2 x 0.26 ml	15 ml/min
I274.14	4Fr	PUR	40 cm	2 x 0.28 ml	6 ml/min
I274.17	5Fr	PUR	40 cm	2 x 0.30 ml	9 ml/min

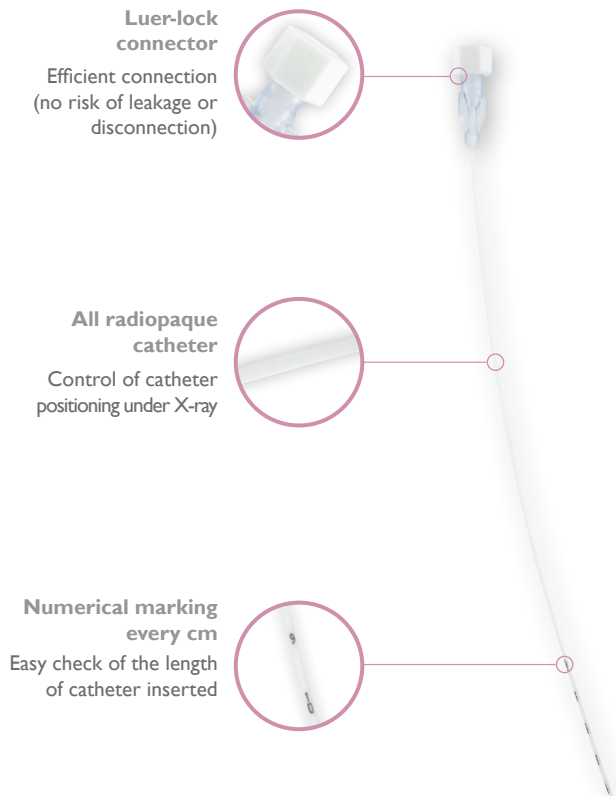
All radiopaque catheter

Control of catheter positioning under X-ray

Numerical marking every cm

Easy check of the length of catheter inserted

Arterial umbilical catheterisation



Umbilical arterial catheters are used for:

- Arterial blood sampling
- Continuous blood pressure monitoring
- Blood pH and blood gas analysis
- Fluids and drugs administration

Small size (2.5 and 3.5 Fr)

→ Easy insertion in the umbilical arteries

Rigid wall

→ Accurate blood pressure monitoring (reduced loss of pressure)

Code	Size	Material	Length	Flow rate
I270.02	2.5Fr	PUR	30 cm	> 2 ml/min
I270.03	3.5Fr	PUR	40 cm	> 10 ml/min
270.03	3.5Fr	PVC DEHP-free	40 cm	> 6 ml/min

PUR or PVC catheters

- PVC DEHP-FREE → easy to insert
- PUR → good haemocompatibility (reduced risk of thrombosis)
+ comfortable

Insertion technique

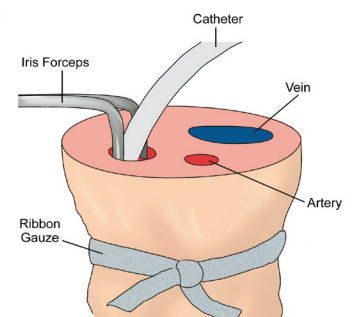
1. Use strict aseptic technique, disinfect the abdominal wall and cord stump. Place a sterile drape with central opening.
2. Loosely tie an umbilical tape around the cord stump to control bleeding. Cut the umbilical cord horizontally 1 cm above the skin, remove any clots which may obstruct the vessel lumen.
3. Identify the vessels: arteries are small, thick walled spiralling vessels and vein is larger and thin walled.
4. Prime the catheter and if required dilate the vessel using iris forceps.
5. Advance the catheter using short, smooth strokes.
6. Use the cm markings on the catheter to note the length of catheter inserted.
7. Place a suture in the wall of the cord taking care not to puncture the catheter.
8. Dress the catheter according to your local policies.

Control of positioning:

Always check the location of the catheter by radiography.

For arterial catheterisation, the catheter tip should be placed in the lower abdominal aorta below the origin of the renal and inferior mesenteric arteries and above the bifurcation of the aorta (i.e., at the bottom of, or just below, the 3rd lumbar vertebra).

For venous catheterisation, the catheter tip should be placed beyond the ductus venosus in the central venous system (inferior vena cava) Note: in emergency situations, the catheter can be inserted 2-3 cm (until blood is returned) and emergency meds can be given. The catheter should not be left in this placement and should be removed after giving emergency medications.



● Placement kit for umbilical catheters

Placement kit dedicated to the insertion of umbilical catheters, to help you save time and money, and increase the safety of the procedure:

- **Save time:** all the instruments required for umbilical catheter placement are available in a kit
- **Save money:** no need to re-sterilize
- **Increase safety:** single use sterile instruments to reduce the risk of infections



Code
80199.695

- 18 G hypodermic safety needle
- 20 G hypodermic safety needle
- scalpel
- drapes without adhesives
- 40x40cm fenestrated transparent drape with "Easy-peel"
- drape towels
- 1 pair of suture scissor
- swabs 10 x 10, 8-ply
- swabs 5 x 5, 8-ply
- 1 transparent gallipot 60 ml
- 1 red gallipot 60 ml
- outer wrap
- instructions for use
- umbilical tape
- measuring guide
- mosquito haemostat curved
- mosquito haemostat ,straight
- iris forceps, "full curved"
- iris forceps, half curve
- iris forceps, straight
- iris forceps, straight with teeth
- needle holder
- measuring tape
- 1 mL syringe
- 3 mL syringe
- 5 mL syringe
- vessel dilator probe
- 3.0 silk suture with curved cutting needle
- tray 20 x 15 x 4 cm
- 2 fixation strips

For further information, please contact: questions@vygon.com

The specifications given in this catalogue are for information only and are not, under any circumstances, of a contractual nature.

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VYGON - 5, rue Adeline - 95440 ECOUEN - FRANCE
Customer service - Tel : + 33 (0)1 39 92 63 33 - Fax : + 33 (0)1 34 29 19 34
www.vygon.com


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