

Acute Therapy Systems

NovaPort Cannulas

Safer Access To The Vascular System



novalung



**FRESENIUS
MEDICAL CARE**

NovaPort Product Features

NovaPort cannulas are designed specially to meet the needs of extracorporeal lung and heart support circuits and perioperative perfusion in minimally invasive heart surgery.

NovaPort cannulas

All blood-contact surfaces of the NovaPort cannulas are coated with the bio- and hemocompatible x.ellence coating.

- Reduced flow resistance with excellent pressure flow ratios
- Ideal wall thicknesses
- Flexible and kink resistant due to high-flex design and wire reinforcement
- Percutaneous one-step dilation helps to protect the vessel wall
- Specially suitable for longterm application

NovaPort cannula sets contain all the required materials.

“Smooth transition from introducer to cannula.”¹



NovaPort one KU single lumen cannulas

- Used for percutaneous connection of extracorporeal gas exchange systems with $\frac{3}{8}$ " tube connections to the vascular system
- Available with a $\frac{3}{8}$ " **universal connector** from 13 Fr to 21 Fr in 90 mm or 140 mm length



Supply package:

- Cannula with inner introducer
- Puncture needle
- Guide wire (70 cm, PTFE-coated*)
- Tube clamp
- Scalpel
- Blunt filler needle
- Vent plug

* Polytetrafluoroethylene (PTFE)

NovaPort one KI single lumen cannulas

- Provide femoral connection of an **iLA membrane ventilator** to the vascular system. An iLA membrane ventilator supports lung function via a pumpless extracorporeal circuit
- Available with a **safety connector** from 13 Fr to 17 Fr (90 mm or 140 mm length) and 19 Fr to 21 Fr (both 140 mm length)

The following NovaPort one combinations are recommended depending on the vascular size of the femoral artery

Ø Artery	Arterial cannula	Venous cannula
≥ 6 mm	15 Fr (5 mm) 90 mm	17 Fr (5.6 mm) 140 mm
5.2 mm - 5.9 mm	13 Fr (4.3 mm) 90 mm	15 Fr (5 mm) 140 mm

NovaPort twin double lumen cannulas

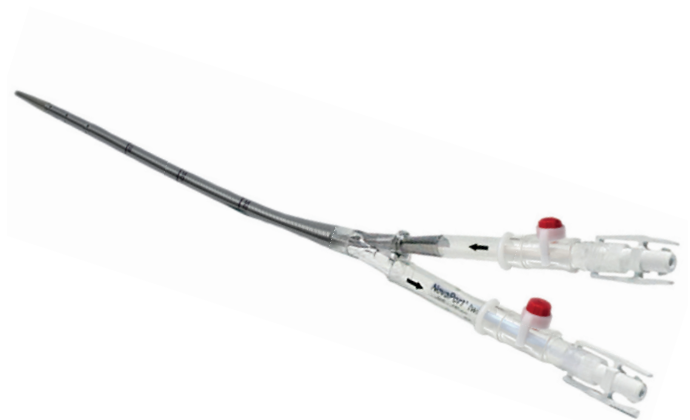
NovaPort twin double lumen cannulas are designed specially for **venovenous vascular access**. Double lumen cannulas are ideal for mobilizing patients.^{2) 3)}

- Easy to place without transesophageal echo control
- Insertion depth monitoring by markings on the NovaPort twin
- The special design of the drainage and reperfusion openings helps to reduce the recirculation risk
- Available with a $\frac{3}{8}$ " **universal connector** in 18 Fr and 21 Fr (both 170 mm length) as well as 24 Fr (270 mm length)



Supply package:

- Cannula with inner introducer
- Puncture needle
- Guide wire (70 cm, PTFE-coated*)
- Tube clamp
- Scalpel
- Blunt filler needle
- Vent plug



Supply package:

- Cannula with inner introducer
- Puncture needle
- Guide wire (120 cm, PTFE-coated*)
- 2 tube clamps
- Scalpel
- Blunt filler needle
- 2 vent plugs
- Air reducer

References

- 1 Optenhöfel J., (2018) Kardiotechnische Leitung Medizinische Hochschule Hannover.
- 2 Kohler K. et al., (2013) ECMO cannula review, Perfusion 28 (2): 114-124.
- 3 Schmidt F. et al., (2012) Concept of "awake venovenous extracorporeal membrane oxygenation" in pediatric patients awaiting lung transplantation, Pediatric transplantation.



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End of 2016, Xenios became a part of Fresenius Medical Care, the world's leading provider of products and services for people with chronic kidney failure.

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