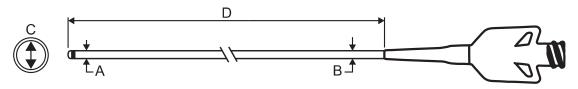




# envoke. Microcatheter



## **Product Information**

eNVoke™ Diameter Group	REF Catalogue Number	Description	"C" Inner Diameter	"D" Usable Length	Stiffness
	FG-005-1414 FG-005-1415	eNVoke™ Microcatheter, 017, 135 cm, Soft eNVoke™ Microcatheter, 017, 135 cm, Regular		135 cm 150 cm	Soft Regu <b>l</b> ar
	FG-005-1415 FG-005-1416				
		eNVoke™ Microcatheter, 017, 135 cm, Support			Support
	FG-005-1424 FG-005-1425	eNVoke™ Microcatheter, 017, 135 cm, 2 MB, Soft eNVoke™ Microcatheter, 017, 135 cm, 2 MB, Regular			Soft Regu <b>l</b> ar
	FG-005-1426	eNVoke™ Microcatheter, 017, 135 cm, 2 MB, Support			Support
	FG-005-1514	eNVoke™ Microcatheter, 017, 150 cm, Soft			Soft
	FG-005-1515	eNVoke™ Microcatheter, 017, 150 cm, Regular			Regular
	FG-005-1516	eNVoke™ Microcatheter, 017, 150 cm, Support			Support
	FG-005-1524	eNVoke™ Microcatheter, 017, 150 cm, 2 MB, Soft			Soft
	FG-005-1525	eNVoke™ Microcatheter, 017, 150 cm, 2 MB, Regular	.017 inch (0.43 mm)		Regular
NVoke™	FG-005-1526	eNVoke™ Microcatheter, 017, 150 cm, 2 MB, Support			Support
17	FG-005-1614	eNVoke™ Microcatheter, 017, 160 cm, Soft		160 cm	Soft
	FG-005-1615	eNVoke™ Microcatheter, 017, 160 cm, Regular			Regular
	FG-005-1616	eNVoke™ Microcatheter, 017, 160 cm, Support			Support
	FG-005-1624	eNVoke™ Microcatheter, 017, 160 cm, 2 MB, Soft			Soft
	FG-005-1625	eNVoke™ Microcatheter, 017, 160 cm, 2 MB, Regular			Regular
	FG-005-1626	eNVoke™ Microcatheter, 017, 160 cm, 2 MB, Support			Support
	FG-005-1714	eNVoke™ Microcatheter, 017, 167 cm, Soft		167 cm	Soft
	FG-005-1715	eNVoke™ Microcatheter, 017, 167 cm, Regular			Regular
	FG-005-1716	eNVoke™ Microcatheter, 017, 167 cm, Support			Suppor
	FG-005-1724	eNVoke™ Microcatheter, 017, 167 cm, 2 MB, Soft			Soft
	FG-005-1725	eNVoke™ Microcatheter, 017, 167 cm, 2 MB, Regular			Regular
	FG-005-1726	eNVoke™ Microcatheter, 017, 167 cm, 2 MB, Support			Support
	FG-005-2414	eNVoke™ Microcatheter, 021, 135 cm, Soft	.021 inch (0.53 mm)	135 cm	Soft
	FG-005-2415	eNVoke™ Microcatheter, 021, 135 cm, Regular			Regular
	FG-005-2416 FG-005-2424	eNVoke™ Microcatheter, 021, 135 cm, Support eNVoke™ Microcatheter, 021, 135 cm, 2 MB, Soft			Suppor Soft
	FG-005-2425	eNVoke™ Microcatheter, 021, 135 cm, 2 MB, Regular			Regular
	FG-005-2426	eNVoke™ Microcatheter, 021, 135 cm, 2 MB, Support			Support
	FG-005-2514	eNVoke™ Microcatheter, 021, 150 cm, Soft		150 cm	Soft
	FG-005-2515	eNVoke™ Microcatheter, 021, 150 cm, Regular			Regular
	FG-005-2516	eNVoke™ Microcatheter, 021, 150 cm, Support			Suppor
	FG-005-2524	eNVoke™ Microcatheter, 021, 150 cm, 2 MB, Soft			Soft
	FG-005-2525	eNVoke™ Microcatheter, 021, 150 cm, 2 MB, Regular			Regular
NVoke™	FG-005-2526	eNVoke™ Microcatheter, 021, 150 cm, 2 MB, Support			Suppor
21	FG-005-2614	eNVoke™ Microcatheter, 021, 160 cm, Soft		160 cm	Soft
	FG-005-2615	eNVoke™ Microcatheter, 021, 160 cm, Regular			Regular
	FG-005-2616	eNVoke™ Microcatheter, 021, 160 cm, Support			Suppor
	FG-005-2624	eNVoke™ Microcatheter, 021, 160 cm, 2 MB, Soft			Soft
	FG-005-2625	eNVoke™ Microcatheter, 021, 160 cm, 2 MB, Regular			Regular
	FG-005-2626	eNVoke™ Microcatheter, 021, 160 cm, 2 MB, Support			Suppor
	FG-005-2714	eNVoke™ Microcatheter, O21, 167 cm, Soft			Soft
	FG-005-2715 FG-005-2716	eNVoke™ Microcatheter, O21, 167 cm, Regular			Regular
	FG-005-2716 FG-005-2724	eNVoke™ Microcatheter, 021, 167 cm, Support eNVoke™ Microcatheter, 021, 167 cm, 2 MB, Soft		167 cm	Suppor Soft
	FG-005-2724 FG-005-2725	eNVoke™ Microcatheter, O21, 167 cm, 2 MB, Soft eNVoke™ Microcatheter, O21, 167 cm, 2 MB, Regular			Regular
	FG-005-2725 FG-005-2726	eNVoke™ Microcatheter, O21, 167 cm, 2 MB, Regular eNVoke™ Microcatheter, O21, 167 cm, 2 MB, Support			Suppor
	FG-005-3414	eNVoke™ Microcatheter, 021, 187 cm, 2 MB, Support eNVoke™ Microcatheter, 027, 135 cm, Soft			Soft
	FG-005-3415	eNVoke™ Microcatheter, 027, 135 cm, Regular	.027 inch (0.69 mm)	135 cm 150 cm	Regular
	FG-005-3416	eNVoke™ Microcatheter, 027, 135 cm, Support			Support
	FG-005-3514	eNVoke™ Microcatheter, 027, 150 cm, Soft			Soft
	FG-005-3515	eNVoke™ Microcatheter, 027, 150 cm, Regular			Regular
NVoke™	FG-005-3516	eNVoke™ Microcatheter, 027, 150 cm, Support			Suppor
27	FG-005-3614	eNVoke™ Microcatheter, 027, 160 cm, Soft		160 cm	Soft
	FG-005-3615	eNVoke™ Microcatheter, 027, 160 cm, Regular			Regular
	FG-005-3616	eNVoke™ Microcatheter, 027, 160 cm, Support			Suppor
	FG-005-3714	eNVoke™ Microcatheter, 027, 167 cm, Soft			Soft
	FG-005-3715	eNVoke™ Microcatheter, 027, 167 cm, Regular			Regular

# **Dimensions**

eNVoke™ Diameter Group	"C" Inner Diameter	"A" Distal Outer Diameter	"B" Proximal Outer Diameter
eNVoke™ 17 (Soft)	.017 inch (0.43 mm)	.026 inch (0.67 mm)	.029 inch (0.74 mm)
eNVoke™ 17 (Regular/Support)	.017 inch (0.43 mm)	.027 inch (0.69 mm)	.029 inch (0.74 mm)
eNVoke™ 21	.021 inch (0.53 mm)	.033 inch (0.84 mm)	.036 inch (0.92 mm)
eNVoke™ 27	.027 inch (0.69 mm)	.037 inch (0.94 mm)	.039 inch (1.00 mm)

PROM-016 Rev. A (2022-04)

1





#### INTENDED USE / INDICATIONS FOR USE

The eNVoke™ catheters are intended for the introduction of interventional devices and infusion of diagnostic or therapeutic agents into the neuro, peripheral, and coronary vasculatures.

The eNVoke™ catheters are variable stiffness, single lumen catheters designed to access small, tortuous vasculature. They are available in a variety of lengths, stiffnesses, and inner and outer diameters. The outer surface of the catheter has a hydrophilic coating on the distal end to reduce friction in the vessel. The catheter also incorporates a liner to facilitate introduction of interventional devices through its lumen. The proximal end has a luer hub for attachment to other devices and the distal tip has radiopaque marker(s) to aid visualization and positioning under fluoroscopy

#### COMPATIBILITY

Catheter	Minimum Guide Catheter Inner Diameter	Maximum Guidewire Diameter
eNVoke™ 17	.044 inch (1.12 mm)	.014 inch (0.36 mm)
eNVoke™ 21	.044 inch (1.12 mm)	.014 inch (0.36 mm)
eNVoke™ 27	.044 inch (1.12 mm)	.014 inch (0.36 mm)

- Use of the eNVoke™ in a lumen less than .003 inch (0.08 mm) larger than the outer diameter of the  $eNVoke^{\mbox{\tiny M}}$  is not recommended.
- Limited testing has been performed with solutions such as contrast media and saline. Delivery of solutions other than the types tested is not recomm
- Compatibility with glue or glue mixtures has not been established.
- Compatibility with DMSO or agents suspended in DMSO has not been established.
- Ensure embolic material compatibility with  $\mathsf{eNVoke}^\mathsf{m}$  prior to use.

#### CONTRAINDICATIONS

· None known.

- Do not use if damage to the device is observed.
- Do not use if the product sterile barrier system or its packaging is compromised.
- This device is intended for single use only. Do not resterilize and/or reuse in multiple patients. Structural integrity, sterility and/or function may be impaired by resterilization or re-use.
- · Never advance or withdraw an intravascular device against resistance until the cause of resistance is determined by fluoroscopy. Movement of the device against resistance could dislodge a clot, perforate a vessel wall, or damage the device.
- The catheter should be manipulated under fluoroscopy only. Do not attempt to move the catheter without observing the resultant tip response.
- Do not exceed 2070 kPA (300 psi) maximum recommended infusion pressure. Excess pressure may result in catheter damage or patient injury. Use of power injectors requires careful monitoring of catheter tip placement in the vasculature to avoid vessel damage.
- Do not exceed 317 kPa (46 psi) if lumen of catheter is occluded as this may result in catheter damage or patient injury.

#### WARNINGS (CONTINUED)

- The safety and effectiveness of the device has not been established, or is unknown, in vascular regions other than those specifically indicated.
- This device is coated with a hydrophilic coating at the distal end of the device for a length indicated on the label. Please refer to Procedure section for further information on how to prepare and use this device to ensure it performs as intended. Failure to abide by the warnings in this labeling may result in damage to the device coating, which may necessitate intervention or result in serious adverse events.

#### PRECAUTIONS

- Carefully read these directions before using this product. Observe warning and safety precautions
- The appropriate anti-platelet and anti-coagulation therapy should be administered in accordance with standard medical practice.
- The device should only be used by physicians experienced in angiographic and percutaneous interventional procedures, at medical facilities with the appropriate fluoroscopic equipment.
- Use device prior to "Use-by" date printed on label.
- Prevent exposure to temperatures in excess of 55°C. Exposure to temperatures above this temperature may damage device and accessories. Do not autoclave
- To prevent thrombus formation and contrast media crystal formation, maintain a constant infusion of appropriate flush solution between guide catheter and microcatheter and between the microcatheter and guidewire.
- · If flow through catheter becomes restricted, do not attempt to clear catheter lumen by infusion. Doing so may cause catheter damage or patient injury. Remove and replace catheter
- Torqueing the catheter may cause damage which could result in kinking to separation of the catheter shaft.
- If an intraluminal device becomes lodged in the catheter, or if the catheter becomes severely kinked, withdraw the entire system (intraluminal device, catheter, and guiding catheter).
- $\hbox{\small \bullet The Shaping Mandrel} \ \text{is not intended for use inside the body. Ensure Shaping Mandrel} \ \text{is removed}$ from the catheter prior to introduction into the RHV or other accessories.
- $\boldsymbol{\cdot}$  Use only a steam source to shape the catheter tip. Do not use other heat sources or the catheter may be damaged.
- . Verify that the diameter of any guidewire or accessory device that is used is compatible with the inner diameter of the catheter prior to use.
- The eNVoke™ catheter has a lubricious hydrophilic coating on the outside of the distal end.
- The coating must be kept hydrated in order to be lubricion
- The coating is incompatible with solvents such as alcohols or cleaning agents. Avoid using alcohols, antiseptic solutions, or other solvents as these may damage the coating, which could affect device safety and performance.
- Avoid wiping the device with dry gauze as this may damage the device coating. Avoid excessive wiping of the coating.
- Avoid device insertion through a metal cannula or needle. Manipulation, advancement, and/or withdrawal through a metal device may result in coating material remaining in the metal device leading to adverse events such as embolization.
- . Caution: Federal (USA) law restricts this device to sale, distribution and use by or on the order

## POTENTIAL COMPLICATIONS

- · Adverse reaction to antiplatelet/anticoagulation agents or contrast media
- · Additional surgical Intervention
- · Allergic reaction · Aneurysm or pseudoaneurysm
- · Aneurysm perforation or rupture
- Anesthesia complications
- · Arteriovenous fistula
- · Cerebral infarct · Change in mental status
- Death
- Device deformation, collapse, fracture, or malfunction
- · Edema, including braid and pulmonary
- · Embolization (air, tissue, or thrombotic emboli)
- · Hematoma at the site of entry

- Hemorrhage
- · Hypotension/hypertension
- Infection
- · Inflammation, including sterile inflammation or granulomas at the
- · Intracranial hemorrhage including subarachnoid hemorrhage and hemorrhagic transformation
- Ischemia
- Myocardial embolism
- Myocardial infarct
- Neurological deficits including stroke and death
- New stroke/ cerebrovascular accident/ transient ischemic attack (TIA)
- Pain at the site of entry
- · Post procedural bleeding

- · Pulmonary embolism
- · Pulmonary infarct Pseudoaneurvsm
- · Renal failure
- · Respiratory failure
- Shock
- Stroke
- · Thrombosis (acute and subacute)
- · Tissue necrosis, transient or long-lasting · Vascular thrombosis
- · Vascular occlusion
- Vascoconstriction (Vasospasm)
- · Vessel trauma, dissection, perforation, rupture, or injury

## eNVoke™ COMPATIBILITY

Non-clinical compatibility testing has been performed with the eNVi $^{\rm m}$ -SR Retriever.  $^{\rm 12}$ 





**Emergo Europe** Prinsessegracht 20 2514 AP The Hague The Netherlands

**C**€ 0297

Pending FDA Clearance, Not Available for Sale in the United States.





NeuroVasc Technologies, Inc. 3 Jenner, Suite 100 Irvine, CA 92618, USA +1.949.258.9946

Neuro Vasc Technologies.com