



Surefire's Infusion technologies help physicians deliver therapy deeper into liver tumors while protecting healthy tissue, giving PATIENTS GREATER CONFIDENCE IN THEIR CANCER CARE.

68%

**Increase in tumor uptake<sup>1</sup>:** An expandable-tip catheter increases infusion pressure while maintaining antegrade blood flow, enabling physicians to deliver higher concentration of therapeutic agents to the tumor.

89%

**Bead delivery into tumor<sup>2</sup>:** An increase of 34% over standard catheter bead delivery, showing higher concentration of therapeutic agents in the tumor and less in surrounding tissue.

58%

**Reduction in non-target embolization<sup>1</sup>:** Provides superior anti-reflux capabilities to protect healthy tissue and non-target vessels.

Visit  
[surefiremedical.com](http://surefiremedical.com)  
for the latest clinical  
data and demo videos.

1. A. Pasciak, et al. "The Impact of an Anti-reflux Catheter on Target Volume Particle Distribution in Liver-Directed Embolotherapy: A Pilot Study." J Vasc Interv Radiol 2015; 26:660-669.

2. A. Arepally, et al. "Comparison of Response Rates Between Endhole vs. Anti-Reflux Catheters in Patients Undergoing DEB-TACE for Solitary LR-5 HCC Tumors." Poster presented at the Division of Interventional Radiology, Piedmont Healthcare, Atlanta Piedmont Transplant Institute, Atlanta, GA.

## SUREFIRE® INFUSION SYSTEM (SIS) SPECIFICATIONS

Product Types	Ordering Code	Inner Diameter	Vessel Size	Usable Length	Proximal Outer Diameter	Distal Tip Outer Diameter	Dead Space	Max Contrast Flow Rate (@1200psi)	Bead Size Compatibility
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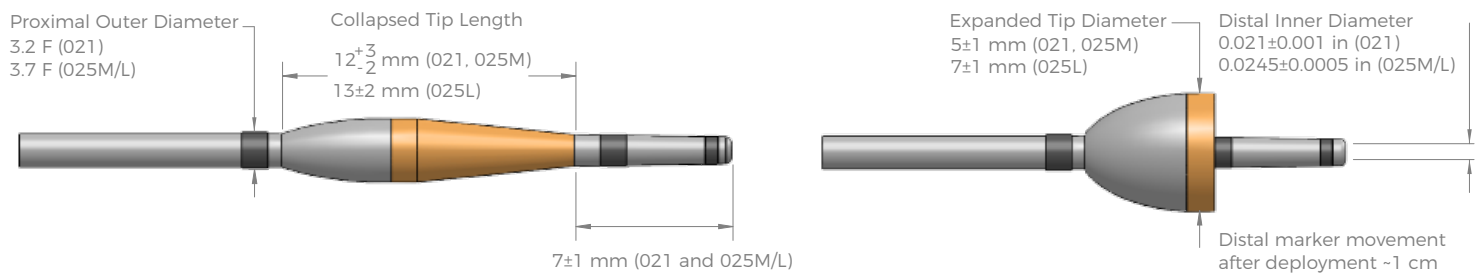
### 120 cm CATHETERS

021	SPS-21120-35	0.021 in	1.5 - 3.5 mm	120 cm	3.2 F	2.8 F	0.37 mL	2.6 mL/sec	Hydrogel ≤ 500 μm Glass ≤ 110 μm
025M	SPS-25120-40	0.025 in	2.0 - 4.0 mm	120 cm	3.7 F	3.4 F	0.52 mL	3.6 mL/sec	Hydrogel ≤ 500 μm Glass ≤ 150 μm
025L	SPS-25120-60	0.025 in	4.0 - 6.0 mm	120 cm	3.7 F	3.4 F	0.52 mL	3.6 mL/sec	Hydrogel ≤ 500 μm Glass ≤ 150 μm

### 150 cm CATHETERS

021	SPS-21150-35	0.021 in	1.5 - 3.5 mm	150 cm	3.2 F	2.8 F	0.44 mL	2.1 mL/sec	Hydrogel ≤ 500 μm Glass ≤ 110 μm
025M	SPS-25150-40	0.025 in	2.0 - 4.0 mm	150 cm	3.7 F	3.4 F	0.61 mL	3.3 mL/sec	Hydrogel ≤ 500 μm Glass ≤ 150 μm
025L	SPS-25150-60	0.025 in	4.0 - 6.0 mm	150 cm	3.7 F	3.4 F	0.61 mL	3.3 mL/sec	Hydrogel ≤ 500 μm Glass ≤ 150 μm

All catheters listed are incompatible with glue or alcohol.



## ACCESSORY: BASE CATHETERS

Speak with a representative for a complete list of compatible shapes or other base catheters.

Manufacturer	Brand	Shape	Size	Inner Diameter	Usable Length
Surefire Medical	Flexion	Axis, SIM1	5F	0.054 in	80 cm
Surefire Medical	Surefire®	Axis, Cobra1, SIM1	5F	0.056 in	65 cm

### Compatible with SIS 021, 025M & 025L 150 cm Catheters

DePuy Synthes/ Codman	Envoy®	Multipurpose C and D, Modified Cerebral and Headhunter 1	5F	0.056 in	90 cm, 100 cm
Medtronic	Launcher®	JR 4.0, MB1a and PAPA	5F	0.058 in	90 cm, 100 cm, 110 cm
Merit Medical	ConcierGE®	All Ultimate™ Curves and Multipurpose, Hockey Stick and Judkins Right 3.5	5F	0.057 in	100 cm
Terumo	Heartrail® III	TIG4.0, Ikari Right and Ikari Left	5F	0.058 in	100 cm

### CONTACT US:

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Angiographic catheters with inner diameters from 0.035-0.038 in are not compatible.