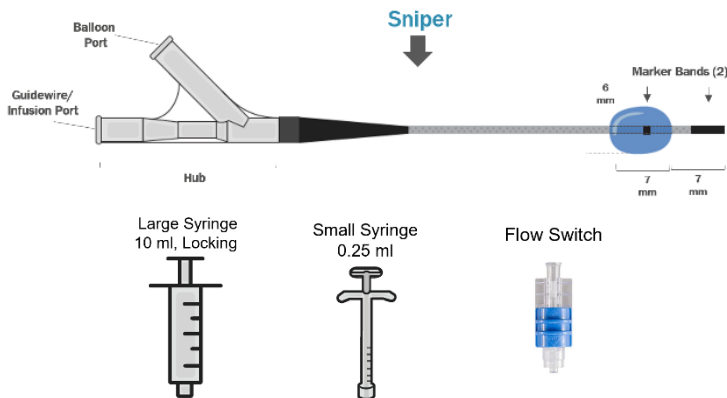


Contents

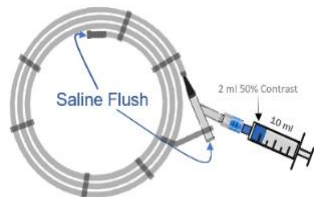


Set-up & Prime

Keep Sniper in the packaging hoop throughout the entire prep procedure.

Set-up video at www.embolx.com

1. Flush hoop and guidewire lumen with saline, then load guidewire.
2. **Connect** flow-switch, in the open position, to balloon port.
3. Fill large syringe with 2 ml of 50% contrast and connect to flow-switch.
4. Pull plunger to top, twist clockwise to lock in place. **Close** flow-switch.
5. Remove syringe, hold vertical and expel air.
6. Re-attach syringe to balloon port. Pull plunger to top, twist clockwise to lock. **Open** flow-switch.
7. Keep syringe vertical. After bubbles are seen (<30 seconds) move plunger down onto contrast and **wait minimum 30 seconds**.
8. Leaving flow-switch open, remove syringe, then **close** flow-switch.
9. Sniper is ready for use.



IMPORTANT!

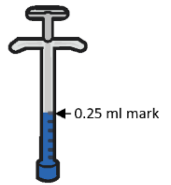
Never overtighten the Tuohy

The Tuohy must be completely loose prior to advancing or retracting Sniper. Failure to do so may cause device damage.

Balloon

Inflate Balloon

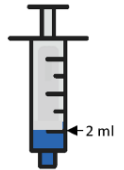
1. Fill small syringe to top mark (0.25 ml) with 50% contrast.
2. Connect syringe to flow-switch on balloon port, **open** flow-switch.
3. Inject less than one mark (< 0.05 ml).
4. Under fluoroscopy, monitor balloon inflation.
5. Incrementally add contrast until balloon is visualized as contouring the vessel wall.
6. **Close** flow-switch. Remove small syringe.



Important: If unable to visualize balloon, refer to trouble shooting.

Deflate Balloon

1. Confirm large syringe contains 2 ml of 50% contrast.
2. Connect syringe to flow-switch, then **open** switch.
3. Pull plunger to top and lock until balloon is completely deflated.
4. Hold syringe vertical, then move plunger down onto contrast and wait a minimum of 30 seconds, then **close** flow-switch.
5. Remove syringe from flow-switch.



Procedure

Diagnostic Catheter

0.038" compatible or larger

Maintain Catheter Hydration

Return Sniper to saline bath when not in use. Hydrophilic coating *must* be hydrated.

Power Injector

Max Pressure: 900 psi

Kink Prevention

Never advance Sniper without a guidewire. Avoid bending Sniper sharply, especially immediately distal to the hub or at the Tuohy.



IMPORTANT! For detailed instructions, refer to the "Sniper Balloon Occlusion Microcatheter Instructions for Use"

Troubleshooting

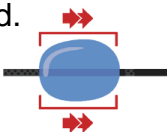
Unable to Visualize Inflated Balloon

- Ensure flow-switch is **closed**.
- Take high-resolution spot image to determine if balloon is filled with air.
- **Open** flow-switch and repeat steps 4-7 listed under “Set-up and Prime”.



Resistance in Diagnostic Catheter

- Ensure Tuohy is completely **open** during any movement of Sniper.
- Rehydrate Sniper & flush diagnostic catheter.
- Ensure balloon is completely deflated.



Balloon Migration

- Deflate balloon.
- Retract Sniper catheter until balloon is in desired position.
- Hold Sniper and diagnostic catheter in place, re-inflate balloon. This may require adjustment of balloon position during inflation.

Unexpected Balloon Deflation

- Ensure flow-switch is **closed**.
- Ensure flow-switch is snug.
- Remove small syringe and open then close flow-switch (vent balloon lumen).
- Re-inflate balloon.



Balloon Will Not Deflate

- Ensure flow-switch is **open**.
- Extend deflation time.
- Remove flow-switch and use empty 0.25 ml syringe to deflate.

Specifications & Compatibilities

Compatibilities

Diagnostic Catheter	0.038” compatible or larger
Guidewire	0.014” or 0.016”
Embolic beads‡	Up to 900 µm
Coils*	Up to 0.018”
Embolic Agents*	Lipiodol®, EtOH, DMSO, Y-90, Gelfoam, Glue (n-bCA)

Diagnostic Catheters NOT Recommended

Cordis	Vertebral & Bernstein tip, 4 Fr
Penumbra	Select

Specifications

Balloon Diameter	6 mm maximum (occludes up to 4.5 mm vessels)
Catheter Functional Length	110 cm 130 cm 150 cm
Tip Shape**	Straight Tip, K™-tip
Catheter Outer Diameter (proximal)	2.9F (0.038”)
Catheter Outer Diameter (distal)	2.2F (0.029”)
Catheter Inner Diameter (Infusion Lumen)	0.020” (0.51 mm)
Dead Space Volume (hub + catheter)	0.32 ml (110 cm) 0.36 ml (130 cm) 0.41 ml (150 cm)
Injection Pressure	Up to 900 psi

*See Sniper Chemical Compatibility Statement Letter MK-0351 at <http://embolx.com/products/>. Embolx does not make any claims, for informational purposes only.

**Consult your sales representative for local market clearance and availability.

‡Boston Scientific Embozene™ 900 µm, 19020-S1. Merit Medical® Emboshere® 700-900 µm, S810GH. Data on file.

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