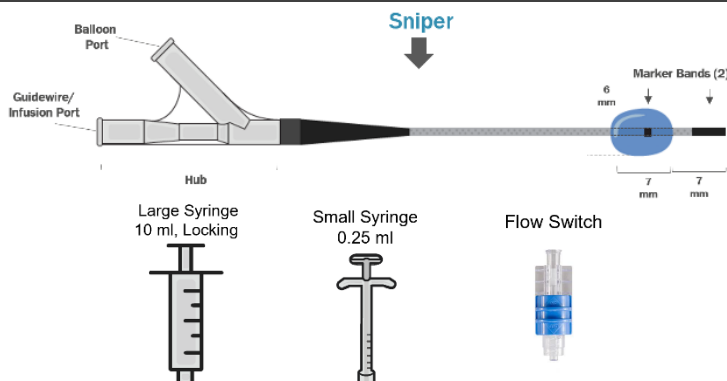


## Contents

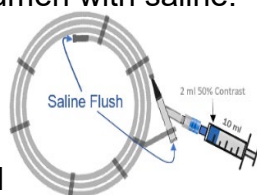


## Set-up & Prime

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

Prep video at [www.embolx.com](http://www.embolx.com)

1. Flush hoop and guidewire lumen with saline.
2. **Connect** flow-switch, in the open position, to large syringe.
3. Fill large syringe with 2-3 ml of 50% contrast and connect to balloon port.
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, tip facing down. 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.
10. Load guidewire after Sniper is fully prepped.



### 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

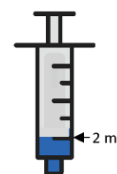
1. Fill small syringe to top mark (0.25 ml) with 50% contrast.
2. Connect syringe to flow-switch on balloon port, **open** flow-switch.
3. Inject less than one mark (< 0.05 ml).
4. Under fluoroscopy, monitor balloon inflation.
5. Incrementally add contrast until balloon is visualized as contouring the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

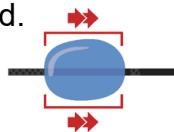
### Unable to Visualize Inflated Balloon

- 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 with Limited Compatibility

Cordis	Vertebral & Bernstein tip, 4 Fr
Penumbra	Select
Merit	Impress, 5 Fr

### 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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MK-0393-01 Rev G

