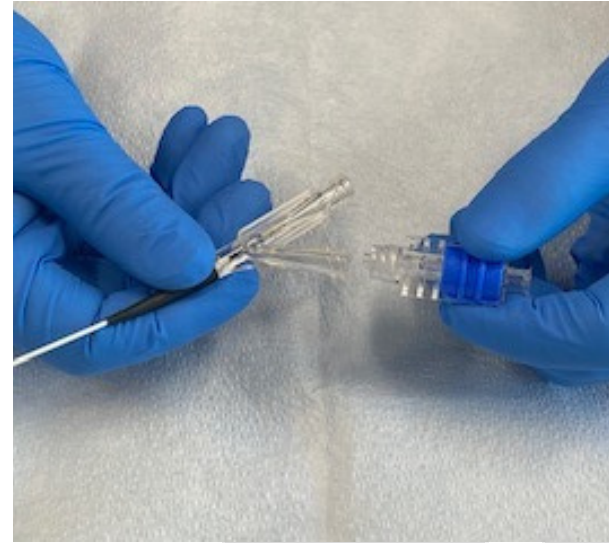


# Sniper <sup>93</sup> Quick Guide

## Balloon Prime

1. Attach the flow switch to the balloon port. Fill the large syringe with 3 ml of 50% diluted contrast and attach syringe to end of the flow switch



2. Pull the plunger to the top and turn clockwise to lock (wait 5 seconds). **Close** the flow switch



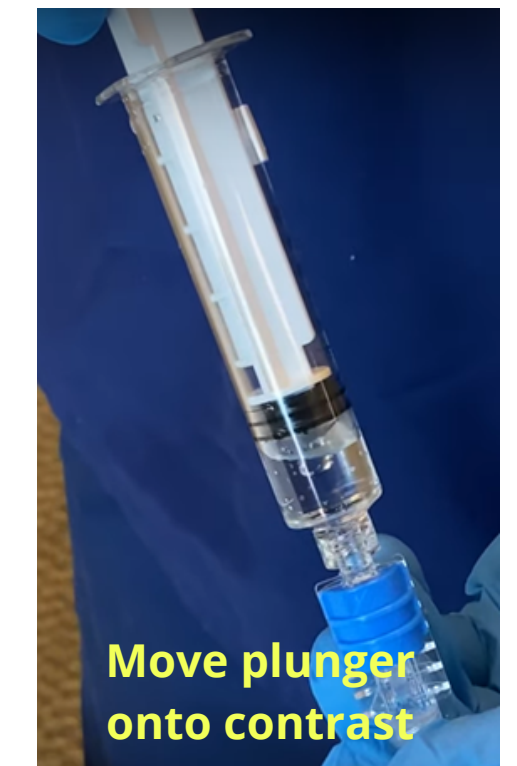
3. Drop the plunger down onto contrast, **then** remove the syringe, expel air and re-attach to the flow switch



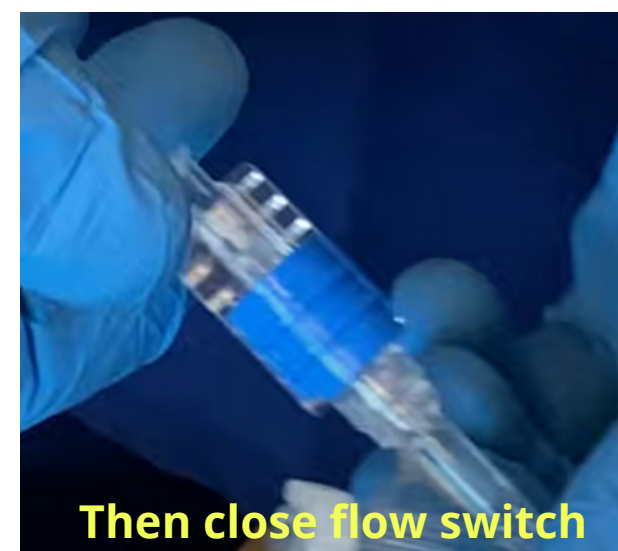
4. Pull the plunger to the top & lock it. **Open** the flow switch



5. Bubbles will be seen. After the bubbles stop or significantly slow, move the plunger down and place the syringe on the table for at least 30 seconds



6. Before use, remove the syringe, *then* **close** the flow switch



7. Flush the hoop with saline *then* flush the guidewire lumen and insert guidewire

Sniper is ready for use



## Balloon Inflation

- 1.Fill a .25 ml syringe with .25 ml of 50% contrast
- 2.Connect the syringe to the flow switch on the balloon port, open the flow switch
- 3.Slowly add contrast until the balloon is visualized contouring the vessel wall
- 4.Close the flow switch. Remove the .25ml syringe

## Balloon Deflation

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

## Troubleshooting

### Unable to Visualize Inflated Balloon:

- Re-prime
  - Hold the syringe vertically then pull the plunger to the top and lock it
  - After bubbles stop or significantly slow move the plunger down and wait a minimum of 30 seconds
- Ensure the flow switch is closed
- A high-res spot image can be used to detect inflation with air

### Balloon Migration:

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

### Resistance in Diagnostic Catheter:

- Ensure Touhy is completely **open** during any movement of the Sniper
- Rehydrate Sniper and flush the diagnostic catheter
- Ensure the balloon is completely deflated

### Balloon Will Not Deflate:

- Ensure the flow switch is **open** and the large syringe plunger is locked at the top
- Remove the flow switch and syringe and allow the balloon to deflate on its own
- Slightly inflate then deflate the balloon
- As a last resort, slowly inflate until the balloon ruptures

Compatibilities	
Diagnostic Catheter	0.038" compatible or larger
Guidewire	0.014" or 0.016"
Embolic Beads‡	Up to 900 µ, Embozene
Coils*	Up to 0.018"
Embolic Agents*	Lipiodol®, EtOH, DMSO, Y-90, Gelfoam, Glue (n-bCA)
Diagnostic Catheters with Limited Compatibility	
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 165 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 (balloon port + catheter)	0.32 ml (110 cm) 0.36 ml (130 cm) 0.41 ml (150 cm) 0.45 ml (165 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.

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

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