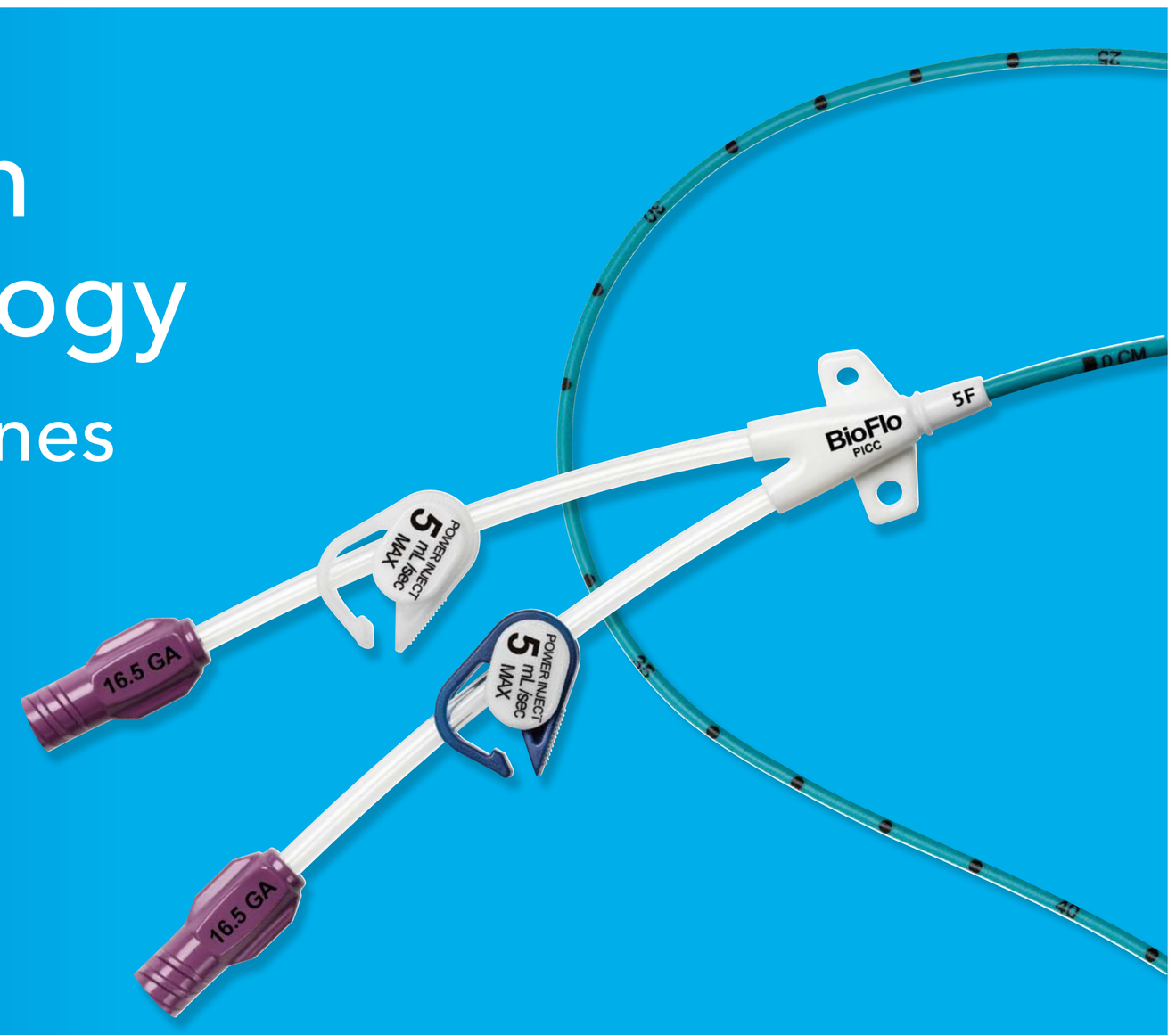
BioFlo® PICC with Endexo® Technology

Power Injection Guidelines



REFER TO DIRECTIONS FOR USE FOR COMPLETE INSTRUCTIONS.

1. CONFIRM CATHETER FOR POWER INJECTABILITY

Confirm patient's catheter is a BioFlo® PICC with Endexo® Technology. The BioFlo® PICC is identifiable by:



2. PROGRAM POWER INJECTOR

Verify power injector is appropriately programmed and does not exceed catheter maximum flow rate limits.

Warning: The maximum pressure of power injectors used with the BioFlo® PICC with Endexo® Technology must not exceed 325 psi. Power injector's pressure limiting (safety cut-off) feature may not prevent over pressurization of occluded catheter. Exceeding maximum flow rate may result in catheter failure and/or catheter tip displacement. Catheter indication for power injection of contrast media implies the catheter's ability to withstand this procedure. It does not imply that this procedure is appropriate for particular patient. A trained clinician is responsible for evaluating the status of a patient for a power injection procedure.

Viscosity

	6.3 cP†		11.8 cP††	
	Length (cm)	Max. Flow Rate (mL/sec)	Length (cm)	Max. Flow Rate (mL/sec)
4FSL	55	5	55	3.5
5FSL	55	5	55	5
5FDL	55	5	55	4
6FDL	55	5	55	5

Bench testing supports the variation in flow rates between 6.3 and 11.8 cP.

All testing was performed using body temperature medium.

† Maximum flow rate data obtained from 55 cm length catheters. Maximum flow rate on catheter label based upon 6.3 cP testing.

†† Maximum flow rate on catheter label based upon 11.8 cP testing

3. WARM CONTRAST MEDIA

Warm contrast media to body temperature.

Warning: Failure to warm contrast media to body temperature prior to power injection study may result in catheter failure.

4. INSPECT CATHETER

Inspect catheter for damage. Do not use if damage is found.

5. ASPIRATE BLOOD

Attach syringe, open clamp and aspirate until blood return. Close clamp, and remove and discard used syringe.

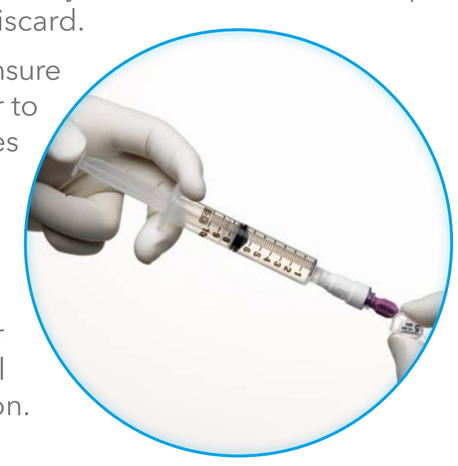


6. FLUSH LUMEN

Attach syringe filled with 10 mL sterile normal saline, open clamp and vigorously flush lumen. Close clamp, detach syringe and discard.

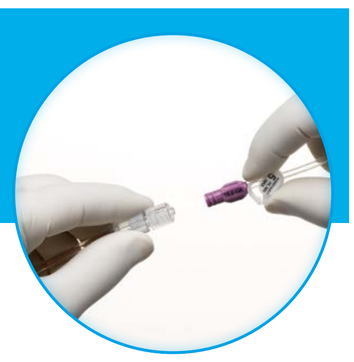
Warning: Failure to ensure catheter patency prior to power injection studies may result in catheter failure.

Precaution: If a needleless connector is attached to catheter hub, ensure that it will sustain power injection.



7. CONNECT TO POWER INJECTOR

Attach power injector to selected lumen hub per manufacturer's recommendations, and open clamp.







8. COMPLETE STUDY & DISCONNECT POWER INJECTOR

Complete power injection study taking care not to exceed maximum flow rate limit. Disconnect the power injector.

Precaution: It is recommended that institutional protocols be considered for all aspects of catheter use. The BioFlo® PICC with Endexo® Technology catheter testing included 10 power injection cycles.

9. FLUSH & FINISH

Flush the BioFlo® PICC with 20 mL sterile normal saline.

Whether you have a question or need information, our team is here to help. Email us at **support@spectrumvascular.com**

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Spectrum Vascular acquired the vascular access business of Cook Medical (2023) and Angiodynamics (2024). Product continues to be manufactured and labeled / branded as Cook and Angiodynamics pending transition.

IMPORTANT SAFETY INFORMATION
For Indications of Use, contraindications, warnings, adverse reactions, precautions, and other safety information, please refer to the insert accompanying each product.

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MKT-037 REV.0

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