



Cleaning and Sterilization Instructions

(Suggested cleaning and sterilization procedures for Tulip Products)

Cannulas, Injectors and Accessories.

Cleaning: cannulas and injectors

1. After each use, perform initial cleaning within the sterile field by wiping each instrument free of blood and debris.
2. Using a syringe, flush each cannula and injector with hot, soapy water. Clean the inside of the hub with a sponge or Q-tip and hot soapy water.
3. Using a syringe, flush a grease-cutting germicidal and antiviral solution through the cannulas and injectors.
4. Using a syringe, rinse the cannulas and injectors with hot water, making sure there is no blockage.
5. Visually inspect each cannula and injector. Make sure they are clean, non-greasy and unclogged.
6. Ultrasonic cleaning after manual cleaning is recommended.

PRECAUTIONS:

WARNING! Using the following materials on your Tulip cannulas and injectors may invalidate your warranty.

- DO NOT USE ALKALINE-BASED CLEANERS.
- DO NOT USE INSTRUMENT MILK.
- DO NOT USE BRUSHES OR ABRASIVE MATERIALS.

Sterilization: Cannulas, Injectors, and Accessories may be steam autoclaved at a temperature of 121°C (250°F) for 30 minutes or flash autoclaved at a temperature of 127° to 132°C (260° to 270°F) for 10 minutes.

Recommended Sterilization Parameters

PRE VAC

Unwrapped Goods Cycle	5 minutes @ 132° C / 270° F	Dry Time: none recommended
Wrapped Goods Cycle	5 minutes @ 132° C / 270° F	Dry Time: 5 -20 minutes* recommended

Gravity

Unwrapped Goods Cycle	10 minutes @ 132° C / 270° F	Dry time: none recommended
Wrapped Goods Cycle	30 Minutes @ 132° C / 270° F	Dry Time: per facility recommendation
Wrapped Goods Cycle	60 Minutes @ 132° C / 270° F	Dry Time: per facility recommendation

*Depending on Hospital Protocol

Warning: Flash sterilization is not the recommended sterilization method. Tulip Cannulas and Injectors should be steam autoclaved when time permits. However, flash sterilization may be used when there is an immediate need for a cannula, injector, or accessory and there is no other alternative.

Aeration: As required, to return to room temperature or to start next cycle.

Contraindication: Hospital policy and procedure(s) takes precedence over this protocol.

Failure to use approved cleaning & sterilization procedures may void the warranty