

# QUICKSEAL<sup>®</sup> small diameter cutter

## About:

AllPure Technologies' **patented** QUICKSEAL<sup>®</sup> is the industry-preferred technology for tube disconnects and aseptic closure.

The hand-held small diameter cutter cuts and seals tubes with outer diameters up to 1/4" (≈6.4mm) without any accessories, tool inserts or changes to tool settings.

The cutting action deforms the collar squeezing the tube and compressing tubing wall together creating an aseptic seal. Sealing time is about **1 second**.



## Frequently Asked Questions:

### ***What is the material of the QUICKSEAL collar?***

3003 Aluminum

### ***How is the collar secured to the tubing?***

On silicone, the collar is secured to the tubing using a platinum-curable liquid silicone.

On thermoplastics, like C-Flex<sup>®</sup>, the collar is secured using a thermoplastic elastomer.

### ***Does the collar contact the fluid?***

No. The tubing runs continuously through the collar. When sealed, the collar is squeezing the tubing walls together.

### ***Is any heat used during the sealing process?***

No. QUICKSEAL creates a mechanical seal.

### ***What is the cutting tool made of?***

The cutting head is 420 stainless steel with carbide inserts at the cutting head. It can be wiped down with appropriate disinfectants and cleaners.

### ***Can the cutting tool be cleaned?***

Yes. The tool can be wiped down for cleaning.

### ***What is the maintenance procedure?***

Inspect the tool for any signs of wear, including the cutting jaws for any nicks or other damage.

**QUICKSEAL can be included as a component on single-use tube, bag or bottle assemblies, sampling manifolds, single-use bioreactors and more...**

### **Cutting Tool Specifications**

**Weight:** 12.16oz (345g)

**Width (closed):** 1 1/4" (31.75 mm)

**Width (open):** 3 5/8" (92 mm)

**Length:** 8 1/4" (210 mm)

**Cutting Time:** ≈1 second

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## Frequently Asked Questions, continued:

### ***Can the collars be installed in the field?***

AllPure's specially designed equipment and strict operating procedures ensure collars are installed properly. Contact AllPure to learn how to become a QUICKSEAL fabricator.

### ***How long will a QUICKSEAL last?***

QUICKSEAL is a mechanical seal relying upon the aluminum collar maintaining compression on the tubing. Only conditions which erode or weaken the aluminum would affect the long-term stability of the QUICKSEAL.

### ***Can QUICKSEAL be frozen?***

Testing by an independent lab has demonstrated that cut QUICKSEAL collars maintain an aseptic seal and microbial barrier after freezing to -100° Celsius.

### ***What are the sterilization techniques?***

QUICKSEAL can be autoclaved so long as the tubing is also autoclaveable. QUICKSEAL can be gamma irradiated.

### ***Is QUICKSEAL a dry disconnect?***

There is no evidence that fluid within the tubing escapes from the QUICKSEAL.

### ***What is the burst pressure of a cut QUICKSEAL collar?***

AllPure's studies show that the tubing bursts before the seal.

### ***Can QUICKSEAL be installed on braid or wire reinforced tubing?***

The cutting tools are not designed to cut fiber braid or wire reinforcing.



**QUICKSEAL<sup>®</sup> REDUCES OPERATING TIME AND IMPROVES RELIABILITY FOR BIOPHARMACEUTICAL AND OTHER HIGH-PURITY FLUID HANDLING INDUSTRIES.**

QUICKSEAL<sup>®</sup> can be installed on a variety of tube materials across a range of tube sizes.