

# NovaSeal™ & NovaSeptum® Crimping Tools

Securely seal and separate single-use tubing

# Maintain a sterile fluid path

NovaSeal™ pinch pipes ensure that sterility is maintained and that the fluid is securely protected from the outside environment at all times. Our unique crimping tool designs utilize size-specific Cutting Dies to seal and separate a pinch-piped tube in one simple motion. The pinch-pipe/tubing combination, along with the crimping tool, enables a leak free disconnection of your single-use assembly.

The patented design of the crimping tool seals and separates the flow path as the pinch-pipe is crimped and cut, enabling the sterile separation of tubing. As part of the Mobius® family of single-use bioprocessing technologies, NovaSeal™ technology enables easy and secure separation of tubing in single-use assemblies.

# The right tool, the right size

Crimping tools are offered in 2 sizes, NovaSeptum® manual crimping tool for 3 mm  $\times$  6 mm OD tubing and NovaSeal<sup>TM</sup> battery-powered crimping tool for use on  $\frac{1}{4}$  inch,  $\frac{3}{8}$  inch, and  $\frac{1}{2}$  inch ID tubing with a wall thickness of  $\frac{1}{8}$  inch.



#### **Benefits**

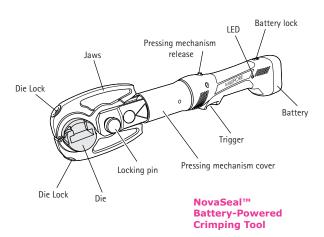
- Sterile Disconnection method
- Quickly seals silicone and thermoplastic elastomer tubing
- · Light weight and portable devices
- Fast and efficient cycle time
- Compatible with a variety of silicone and TPE tubing\* (\*Please see Validation Guide)

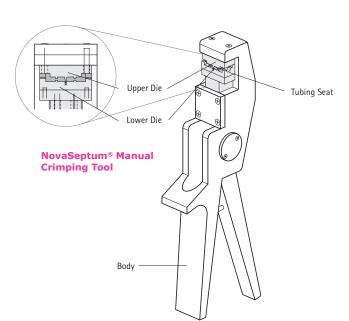


#### Easy to use

In one motion, the tube of your single-use assembly can be crimped to ensure a leak free and sterile seal then cut to disconnect the tubing.

- Place the tubing with metallic pinch-pipe into the die of the tool.
- 2. Squeeze the trigger switch on the handle of the tool to complete the crimp and cut cycle.
- 3. Remove the sealed tube from the jaw set.













## **NovaSeal™ Battery-Powered Crimping Tool**

Dimensions	
Weight	2.5 kg (5.5 lbs)
Materials of Construction	
Body	Polyamide
Crimping jaws	Nickel-plated steel
Crimp and cut die	Nickel-plated steel
Screws and bearings	Stainless steel
Cycle Time	approximately 4 seconds
Thrust Force	15 kN
Battery Voltage	10.8 V
Battery Charging Time	approximately 40 minutes
Cycles per charge	100—150
Operating Temperature Range	5 to 50 °C
Sound Level	70.6 dB (A) at a distance of 1 m
Vibrations	< 2.5 m <sup>2</sup>

### **NovaSeptum® Manual Crimping Tool**

Materials of Construction	
Body	Aluminum
Lower die	Steel with hardened special surface treatment
Upper die	Steel with hardened special surface treatment
Screws and bearings	Stainless steel

## **Ordering Information**

NovaSeal™ Battery-Powered Crimping Tool Kit		
100-120 V US and Japan plug	NM0043	
220-240 V Europe plug	NM0044	
220-240 V UK plug	NM0045	

NovaSeal™ Crimping Tool Replacement Parts		
Battery chargers		
100-120 V US and Japan plug 10.8 V Li-Ion	NM0046	
220-240 V Europe plug 10.8 V Li-Ion	NM0047	
220-240 V UK plug 10.8 V Li-Ion	NM0048	
Extra/replacement battery, 10.8 V Li-Ion	NM0042	
Universal Jaw Assembly	NM0025	



NovaSeal™ Battery-Powered Crimping Tool Kit

Tool kit includes the crimping tool, battery, charger, and jaw assembly. Die is not included.

NovaSeal™ Cutting Die, Pinch Pipe & Protective Cap		
Tubing: ¼ in. ID x ½ in. OD		
Cutting Die	NM0021	
Pinch Pipe (100 count)	NM0001PK100	
Silicone Protective Cap (200 count)	NM0039	
Tubing: % in. ID x % in. OD		
Cutting Die	NM0022	
Pinch Pipe (100 count)	NM0019PK100	
Silicone Protective Cap (200 count)	NM0041	
Tubing: ½ in. ID x ¾ in. OD		
Cutting Die	NM0023	
Pinch Pipe (100 count)	NM0002PK100	
Silicone Protective Cap (200 count)	NM0040	

NovaSeptum™ Manual Crimping Tool		
Tubing: 3 mm ID x 6 mm OD		
Manual Crimping Tool	A100	
Cutting Die	A104	
Pinch pipe, in package of 100	NS6-15-05PK100	
Silicone end cover, in package of 200	NSTP-3X6	



NovaSeal™ Dies and Pinch pipes



NovaSeal™ Pipe with silicone covers

NovaSeptum® Manual Crimping Tool

For additional information, please visit **SigmaAldrich.com** 

To place an order or receive technical assistance, please visit
SigmaAldrich.com/offices

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