Millipore®
Expert Pharm/BioPharm
Products & CTDMO Services

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 x 6 mm OD tubing and NovaSeal™ battery-powered crimping tool for use on ¼ inch, ⅜ inch, and ½ inch ID tubing with a wall thickness of ⅛ 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)

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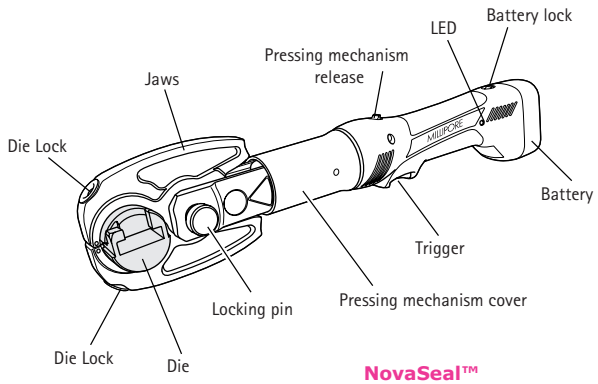
Easy to use

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.

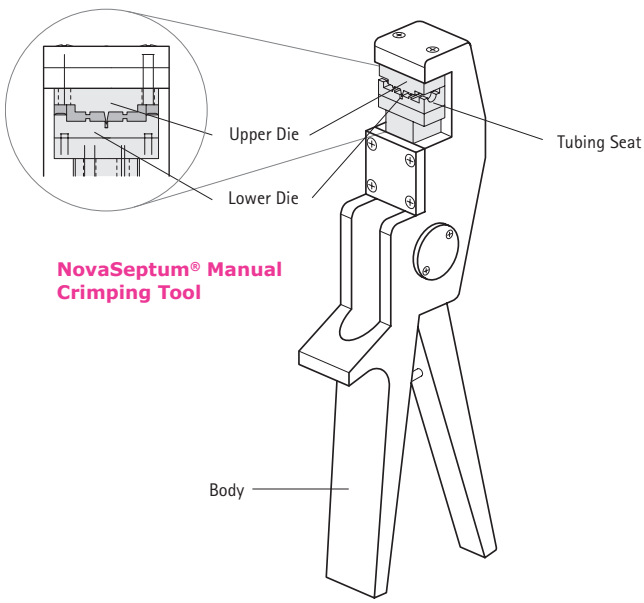
1. Place the tubing with metallic pinch-pipe into the die of the tool.
2. Squeeze the trigger switch on the handle of the tool to complete the crimp and cut cycle.
3. Remove the sealed tube from the jaw set.



NovaSeal™ Battery-Powered Crimping Tool

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^2



NovaSeptum® Manual Crimping Tool

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: ⅜ in. ID x ⅝ 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

NovaSeal™ Dies and Pinch pipes

NovaSeal™ Pipe with silicone covers

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

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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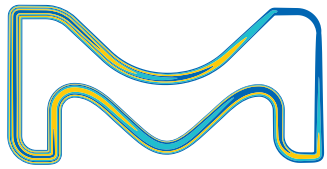

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