



4160 Series TPE Tube Bio Sealer

Introducing the SEBRA® 4160 Series TPE Bio Tubing Sealer: a portable aseptic disconnect device designed for leak-free, permanent seals on thermoplastic tubing to maintain the sterility of your product. This maintenance-free, lightweight yet durable solution, with intuitive design and remote cycle-start activation, can seal wet, dry, or liquid-filled tubes up to 1.0" OD.



The 4160 is modular and interchangeable, catering to both thin and thick-walled TPE tubing. It comprises the Model 4160 Controller and interchangeable sealing heads, with Model 4161 for thin-wall TPE tubing and Model 4162 for thick-wall TPE tubing.

APPLICATIONS

Used to disconnect thermoplastic elastomer tubing (TPE) such as TuFlux® TPE, C-Flex®, AdvantaFlex®, SaniPure™ BDF, CellGyn®, Flexelene™ 135C, as well as peristaltic pump tubing such as PharMed® BPT and PharmaPure®, on disposable assemblies used in biopharmaceutical manufacturing processes. Individual components of assemblies can be disconnected in a non-sterile environment while maintaining the sterility of the product.

REALIZED BENEFITS

- ✓ **SEAL WET OR DRY**
Is capable of sealing wet, dry, or liquid-filled, in both non-classified and classified environments, all while preserving product sterility.
- ✓ **REMOTE ACTIVATION**
Offers convenience and user flexibility for time sensitive settings.
- ✓ **EFFORTLESSLY PORTABLE**
The sealing heads are lightweight, allowing it to be operated on a table or while hanging. Moreover, its portability enables quick and easy relocation to the desired sterile disconnection location in the suite.
- ✓ **SECURE SEALING**
Offers a wide 10 mm wide seal for reliable disconnection. In addition, an optional visual cut-line can be embedded into the seal ensures operators can easily cut with scissors.
- ✓ **SERVICEABLE**
Detachable head for quick swap-replacement, eliminating the necessity to replace the entire unit.

FEATURES

- Convenient Backlit touchscreen user interface
- Password-protected, user adjustable recipe parameters and configurations
- Integrated safety lock feature to prevent opening during a sealing cycle
- Easy to handle and close sealing heads
- Can be configured to accept compressed air for faster cycle times



Optional Visual Cut Line Capability

| MECHANICAL SPECIFICATIONS | 4160 CONTROL MODULE | 4161 THIN WALL SEALING HEAD | 4162 THICK-WALL SEALING HEAD |
|---------------------------|---|---|---------------------------------------|
| Dimensions (WxLxH) | 9x 16.5 x 6 inches 22.5 x 41 x 15 cm | 3x 12.5 x 2 inches 7.5 x 31.5 x 5 cm | 3x 13 x 2 inches 7.5 x 32.5 x 5 cm |
| Operating Weight | 14 lbs (5.4 kg) | 2.5 lbs (1.13 kg) | 2.6 lbs (1.18 kg) |

ELECTRICAL SPECIFICATIONS

| | | | |
|-------------|--|--|--|
| Power Input | 100VAC +/-10%, 50-60Hz 115VAC +/-10%, 50-60 Hz 230VAC +/-10%, 50-60 Hz | 100VAC +/-10%, 50-60Hz 115VAC +/-10%, 50-60 Hz 230VAC +/-10%, 50-60 Hz | 100VAC +/-10%, 50-60Hz 115VAC +/-10%, 50-60 Hz 230VAC +/-10%, 50-60 Hz |
| Main Fuses | (100VAC units) 4A (115VAC units) 4A (230VAC units) 2A | - | - |

OPERATING CONDITIONS

| | | | |
|-------------|--|--|--|
| Temperature | 59° - 95° F (15° -35°C) | 59° - 95° F (15° -35°C) | 59° - 95° F (15° -35°C) |
| Humidity | 70% maximum relative humidity (non-condensing) | 70% maximum relative humidity (non-condensing) | 70% maximum relative humidity (non-condensing) |

CERTIFICATIONS

CE, RoHS, WEEE

NRTL

cTUVs

TUBING COMPATIBILITY CHART

Can seal from 1/4" up to 1" OD.

SEALING HEAD SELECTOR

| TUBING SIZE ID X OD | PUMP SIZE | WALL THICKNESS | RECOMMENDED SEALING HEAD |
|------------------------|--------------|-------------------|-----------------------------|
| 1/32" x 3/32" | | 1/32" | Custom |
| 1/16" x 1/8" | | 1/32" | Custom |
| 1/16" x 3/16" | 14 | 1/16" | Custom |
| 1/8" x 1/4" | 16 | 1/16" | 4161 |
| 3/16" x 5/16" | 3, 25 | 1/16" | 4161 |
| 3/16" x 3/8" | 15 | 3/32" | 4161 |
| 1/4" x 3/8" | 17 | 1/16" | 4161 |
| 1/4" x 7/16" | 24 | 3/32" | 4161 |
| 1/4" x 1/2" | 26 | 1/8" | 4162 |
| 5/16" x 7/16" | 18 | 1/16" | 4161 |
| 5/16" x 1/2" | 35 | 3/32" | 4161 |
| 3/8" x 1/2" | 96 | 1/16" | 4161 |
| 3/8" x 9/16" | 36 | 3/32" | 4161 |
| 3/8" x 5/8" | 73 | 1/8" | 4162 |
| 1/2" x 11/16" | | 3/32" | 4161 |
| 1/2" x 3/4" | 82 | 1/8" | 4162 |
| 5/8" x 7/8" | | 1/8" | 4162 |
| 3/4" x 1" | | 1/8" | 4162 |

MANUFACTURING LOCATION: SEBRA 3480 E. Britannia Drive #120 Tucson, AZ 85706

REGIONAL SERVICE DEPOTS: Zurich, Galway, Shanghai and Tokyo

CONTACT US FOR TECHNICAL SUPPORT, MAINTENANCE AND REPAIRS.

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