The biopharmaceutical industry has made a strong move towards single-use technology, so Nordson MEDICAL has developed ground-breaking clamp designs that simplify the assembly process. Effortlessly and securely attach sanitary fittings to bag ports and filters with PharmaLok™ Easy-Open Clamps, and close off flow with PharmaLok™ Tube Clamps.

### Materials
- Zytel® FGFE5171 glass-filled nylon certified to USP Class VI & ISO 10993 and available in white, blue, or orange

### Temperature & Sterilization
- Normal operating temperature -94° F (-70° C) to 140° F (60° C)
- Cryogenic freezing to -112° F (-80° C)
- Autoclavable up to 273° F (134° C) for a maximum of 30 min.
- Gamma radiation up to 50 kGy
- X-ray sterilization up to 50 kGy

### Maximum Pressure
- 80 psi (conforms to ASME BPE-2022)

### Sterilization
- Fitting .5” (12.7 mm) to .75” (19.0 mm), 1” (25.4 mm) to 1.5” (31.8 mm), 3” (76.2 mm), and 4” (101.6 mm)

### Specifications
- Designed for use with silicone & TPE tubing
- Easy to use, one-handed closure - no tools needed
- Tamper evident & zip tie compatible

---

**SINGLE-USE & EASY-OPEN CLAMPS**

- ASME BPE 018 DT-7-1 compliant & DIN compliant
- Easy to use, one-handed closure - no tools needed
- Repeatable use with constantly equal pressure on the gasket
- Tamper evident & zip tie compatible
- 360° compression
- Connects both plastic and stainless steel fittings
- SIP/CIP compatible

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zytel® FGFE5171</td>
<td>Glass-filled nylon certified to USP Class VI &amp; ISO 10993 and available in white, blue, or orange</td>
</tr>
</tbody>
</table>

**Temperature & Sterilization:**

- Normal operating temperature: -94° F (-70° C) to 140° F (60° C)
- Cryogenic freezing: to -112° F (-80° C)
- Autoclavable: up to 273° F (134° C) for a maximum of 30 min.
- Gamma radiation: up to 50 kGy
- X-ray sterilization: up to 50 kGy

**Maximum Pressure:**

- 80 psi (conforms to ASME BPE-2022)

**Sterilization:**

- Fitting: .5” (12.7 mm) to .75” (19.0 mm), 1” (25.4 mm) to 1.5” (31.8 mm), 3” (76.2 mm), and 4” (101.6 mm)
**PHARMALOK™ Clamps**

**Easy-Open Clamps**

**CPAX150 (-U71, -U75, -U706)**
Tri-Clover Easy-Open Clamp for Maxi Flange, 1” (25.4 mm) to 1.5” (38.1 mm), Glass-Reinforced White, Blue, or Orange Nylon

**CPAN75 (-U71, -U75, -U706)**
Tri-Clover Easy-Open Clamp for Mini Flange, .5” (12.7 mm) to .75” (19.0 mm), Glass-Reinforced White, Blue, or Orange Nylon

**CPAX400 (-U71)**
Tri-Clover Easy-Open Clamp for 4” (101.6 mm) Flange, Glass-Reinforced White Nylon

**CPAX300 (-U71)**
Tri-Clover Easy-Open Clamp for 3” (76.2 mm) Flange, Glass-Reinforced White Nylon

**Single-Use Clamps**

**CPX150 (-U71)**
Single-Use Series Clamp, TC Version 1” (25.4 mm) to 1.5” (38.1 mm), Glass-Reinforced White Nylon

**CPN75 (-U71)**
Single-Use Series Clamp, TC Version .5” (12.7 mm) to .75” (19.0 mm), Glass-Reinforced White Nylon

**Tube Clamps**

**CPT90 (-U71, -U706)**
PharmaLok™ Small and Thin-Walled Tube Clamp
- Minimum tubing ID of 1/16” (1.59 mm) with 1/32” (0.79 mm) wall thickness
- Maximum tubing OD of 1 1/8” (28.58 mm) with 3/32” (2.38 mm) wall thickness
- Glass-Filled White or Orange Nylon

**CPT100 (-U71, -U706)**
PharmaLok™ Standard Tube Clamp
- Minimum tubing ID of 1/2” (12.7 mm) with 3/32” (2.38 mm) wall thickness
- Maximum tubing OD of 1 1/4” (31.75 mm) with 3/16” (4.76 mm) wall thickness
- Glass-Filled White or Orange Nylon

**CPT110 (-U71, -U706)**
PharmaLok™ Large Tube Clamp
- Minimum tubing ID of 3/4” (19.05 mm) with 1/8” (3.18 mm) wall thickness
- Maximum tubing OD of 2” (50.8 mm) with 1/4” (6.35 mm) wall thickness
- Glass-Filled White or Orange Nylon