RayDyLyo®

A NEW STANDARD FOR VIAL CAPPING

• Simplification of the capping process
• Capping in aseptic area
• Elimination of crimping
A BREAKTHROUGH INNOVATION WITH MULTIPLE BENEFITS

- Suitable for ISO 8362-1 vials
- Suitable for ISO 8362-2 rubber stoppers, pre-validated by the customer
- Stoppers are pre-assembled automatically in the RayDyLyo® cap
  - 100% camera in process control
  - 100% control of stopper insertion
- Different packaging options: in standard bags, RTP** type bags and nest
- Delivered sterile (RTU) or ready-to-sterilize (RTS)
- Compatible with gamma and steam sterilization

SIMPLIFIED MANUAL CAPPING PROCESS

- Suitable for clinical trials and small batches
- Filling and capping in aseptic area
- Easy and safe
- Closing by single vertical pressure
- Does not require special tools
- Fully tamper evident closure
- Eliminates cosmetic defects on closures

*Simpler
**Easier
IN LINE AUTOMATED CAPPING

• Compatible with existing filling and capping lines
• Capping takes place in the filling area (grade A)
• One cap compatible with all ISO stopper designs (serum and lyo)
• No more sticking stoppers, twins, grapes
• Pop off effect is eliminated
• Crimping station made redundant: footprint reduction
• Eliminate rejects and batch recalls due to cosmetic defects

NESTED ASEPTIC CAPPING

• Ready-to-use nested RayDyLyo® caps
• Compatible with commonly used nested vials
• Nested vials closed in one single step without de-nesting
• Enables gloveless filling and capping in isolators
• Controlled aseptic production environment
• Quick change over between cap size

COST EFFECTIVE SOLUTION

Minimizing TCO

Reduction of initial investments on:
• Equipment (crimping…)
• Utilities (kWh,…)
• Workforce
• Validation
• Maintenance

Increasing Quality

• Gamma sterilized
• Ready to use components

Flexibility

RayDyLyo® + ISO stoppers suitable for research (manually) to industrial scale (automated line) applications

Reducing Time-to-market
ANTI-COUNTERFEITING

• Patented solution
• Tamper evident features
• Flip cap cannot be re-installed
• Impossible to remove cap intact
• Printing and labelling possible on cap body

MARKETING DIFFERENTIATOR

• 11 standard colors for the flip cap
• Ergonomic design
• Easy flip cap removal
• No risk of ragged metal edges damaging gloves

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>Sterilization</th>
<th>CCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vials ISO 8362-1</td>
<td>Lyo Stopper ISO 8362-5*</td>
<td>Serum Stopper ISO 8362-2*</td>
</tr>
<tr>
<td>CTO 13</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CTO 20</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Full product validation and detailed CCI information on demand.
*Already validated with rubber stoppers from Aptar, Datwyler and West.

DIFFERENT PACKAGING OPTIONS

<table>
<thead>
<tr>
<th>Bulk packaging (pieces/bag)</th>
<th>Ø13 mm</th>
<th>Ø20 mm</th>
<th>Nested caps (pieces / nest)</th>
<th>Ø13 mm</th>
<th>Ø20 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small bag</td>
<td>400</td>
<td>800</td>
<td>For 2R/4R vials</td>
<td>100</td>
<td>/</td>
</tr>
<tr>
<td>Big bag</td>
<td>1000</td>
<td>2000</td>
<td>For 6R/15R vials</td>
<td>/</td>
<td>48</td>
</tr>
<tr>
<td>RTP bag</td>
<td>1000</td>
<td>2000</td>
<td>For 20R/30R vials</td>
<td>/</td>
<td>25*</td>
</tr>
</tbody>
</table>

*Available soon.

Nests are supplied in tub of 3.

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