

RayDyLy^o®

A NEW STANDARD
FOR VIAL CAPPING

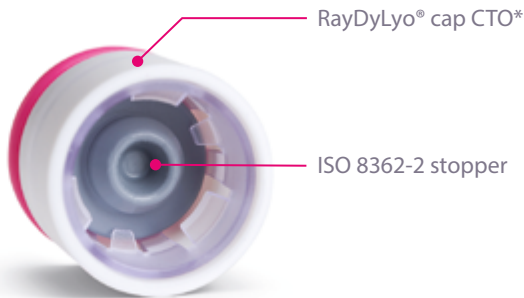


- Simplification of the capping process
- Capping in aseptic area
- Elimination of crimping



A BREAKTHROUGH INNOVATION WITH MULTIPLE BENEFITS

Innovation patented



- 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

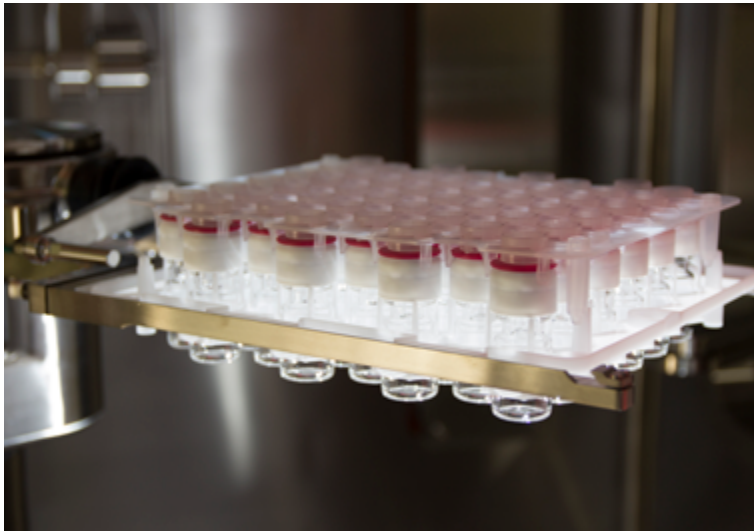


EASIER



*Central Tear Off

**Rapid Transfer Port



© SA25 Aseptic Filling Workcell Vanrx

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

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



© SX-310-RDL Dara Pharmaceutical Packaging

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



	Compatibility			Sterilization		CCI	
	Vials ISO 8362-1	Lyo Stopper ISO 8362-5*	Serum Stopper ISO 8362-2*	Gamma Sterilization	Steam Sterilization	Methylene Blue Test	O2 Headspace
CTO 13	✓	✓	✓	✓	✓	✓	✓
CTO 20	✓	✓	✓	✓	✓	✓	✓

Full product validation and detailed CCI information on demand.

*Already validated with rubber stoppers from Aptar, Datwyler and West.

DIFFERENT PACKAGING OPTIONS

Bulk packaging (pieces/bag)	Ø13 mm Ø20 mm		Nested caps (pieces / nest)	Ø13 mm Ø20 mm	
Small bag	800	400	For 2R/4R vials	100	/
Big bag	2000	1000	For 6R/15R vials	/	48
RTP bag	validation in progress		For 20R/30R vials	/	25*

*Available soon.

Nests are supplied in tub of 3.

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