



# Reference Guide

## Rio™ Drug Reconstitution Device\*

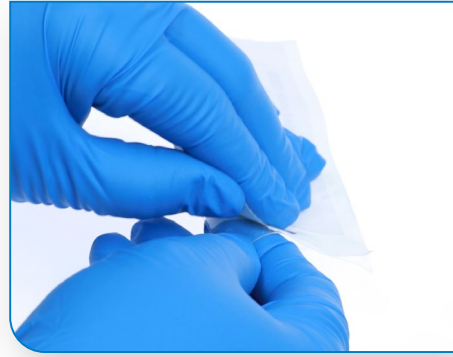
For reconstitution of liquid or lyophilized drugs (20 mm vials) and aseptic transfer into a multi-port LifeCare™ IV container system (up to 500 mL)\*\*

### Assembly:



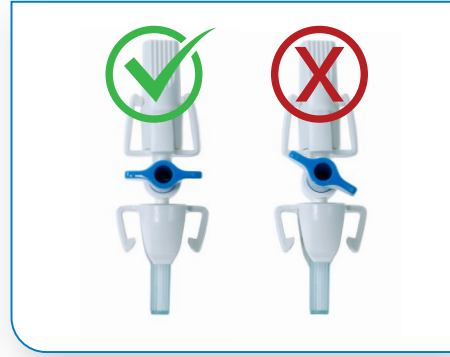
#### 1. Disinfect vial

- › Remove vial cover and disinfect vial stopper per IFU or facility protocol.
- › Place vial upright on flat surface.



#### 2. Remove from package

- › Using aseptic technique, open package and remove device from its sterile package.



#### 3. Turn to horizontal OFF position

- › Ensure device is in the horizontal OFF position. If not, turn handle so it is horizontal.



#### 4. Remove cap

- › Remove vial-side cap from vial-side of device.



#### 5. Spike vial

- › Firmly push device straight down until it clicks securely onto vial.



#### 6. Disinfect medication port

- › Disinfect medication port on the LifeCare IV container system per facility protocol.
- › Remove bag-side cap from bag-side of device.



#### 7. Spike bag

- › Spike medication port on the LifeCare™ IV container system with the device until device attaches securely onto IV bag.

**Note:** Do not remove assembled (vial-to-bag) system and do not refrigerate assembled (vial-to-bag) system once assembled.

### Activation/Reconstitution:



#### 8. Turn to vertical ON position

- › Turn and rotate handle until it is vertically positioned (or in-line with fluid path) to “open” pathway.



#### 9. Reconstitute

- › Hold IV container/bag with vial down.
- › Squeeze IV container/bag to transfer solution into vial until half full.

**Note:** Do not overfill vial.

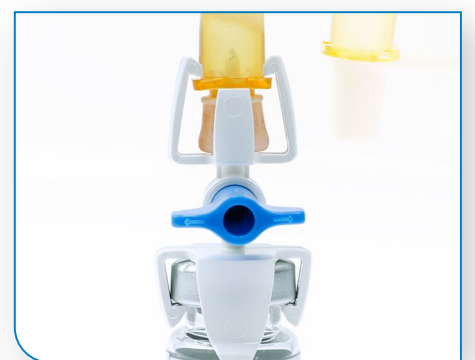
- › (For lyophilized drug) shake or swirl to suspend drug in solution per manufacturer’s guideline.

**Note:** Ensure drug is completely dissolved.



#### 10. Invert

- › Hold IV container/bag with vial upside down.
- › Squeeze IV container/bag to transfer air into vial.
- › Release to drain drug from vial.
- › Repeat above steps as necessary until drug and solution are transferred from vial to container/bag.



#### 11. Turn to horizontal OFF position

- › If desired, turn and rotate handle until it is horizontally positioned to “close” fluid pathway upon emptying vial contents.

**Note:** Post reconstitution, fluid pathway may be closed to prevent the reconstituted drug from entering the vial. Do not remove assembled (vial-to-bag) system and do not refrigerate assembled (vial-to-bag) system prior to activation.



### In-Service Video

Your guide to the safe and effective use of the Rio drug reconstitution transfer device



Not for use with bags larger than 500 mL or bags with a single down port.  
For single patient use, do not resterilize; sterile, non-pyrogenic fluid path in unopened, undamaged package and needlefree.

\*Rio Drug Reconstitution Transfer Device is manufactured for Otsuka ICU Medical LLC and distributed by ICU Medical Sales, Inc.  
\*\*LifeCare IV container systems are manufactured for Otsuka ICU Medical LLC and distributed by ICU Medical Sales, Inc.

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