

## G Sterilization /Disinfection

### RTC 15-D — RTC 15-P — RTC 22-D — RTC 23-D

These products are designed for **Single Patient Reuse**. (Can be used to repeatedly administer medications to one single patient while installed in a breathing circuit.)

They are packaged as **non-sterile**; **Instrumentation Industries, Inc.** recommends processing before initial use. Discard when replacing the circuit according to facility guidelines.

#### Recommendations for RTC 15-D, RTC 15-P, RTC 22-D, and RTC 23-D:

Carefully follow facility guidelines for preparing products and solutions for the sterilizing and disinfecting methods and equipment being used. Sterilization and High Level Disinfection Procedures have been validated for the following equipment and methods:

#### Sterilization

##### STERRAD 100S

Full short sterilization cycle (Hydrogen peroxide gas plasma, 55 minutes, 45°C - 55°C).

##### High Level Disinfection

##### Pasteurization

Pasteurize at 70°C +/- 3°C (153° - 163°F) for a minimum of 30 minutes.

##### Cidex® OPA

Prepare Cidex® OPA solution.

Totally submerge adapter in the disinfectant.

Immerse device completely, eliminating air pockets, in Cidex® OPA Solution for a minimum of 12 minutes at 20°C (68°F) to destroy all pathogenic microorganisms.

Remove device from the solution and rinse thoroughly as per these rinsing instructions:

- Following removal from Cidex® OPA Solution, thoroughly rinse the adapter by immersing it completely in a large volume (e.g. 2 gallons) of water. Sterile water rinse is recommended unless potable water is acceptable.
- Keep the device totally immersed for a minimum of 1 minute in duration.
- Manually flush all devices with large volumes (not less than 100 mL) of rinse water.
- Remove the device and discard the rinse water. Always use fresh volumes of water for each rinse. Do not reuse the water for rinsing or any other purpose.
- Repeat the procedure TWO (2) additional times, for a total of THREE (3) RINSES, with large volumes of fresh water to remove Cidex® OPA Solution residues. Residues may cause serious side effects.
- Dry using sterile, lint-free cloths.

**DO NOT STEAM AUTOCLAVE RTC 15-D — RTC 15-P — RTC 22-D — RTC 23-D!**

### RTC 22-A — RTC 23-A

These products are designed to be **Reusable**. (May be processed up to 30 times at the parameters provided below.)

They are packaged as **non-sterile**; **Instrumentation Industries, Inc.** recommends processing before initial use. Reprocess when replacing the circuit at the parameters provided below.

#### Recommendations for RTC 22-A and RTC 23-A:

Carefully follow facility guidelines for preparing products and solutions for the sterilizing and disinfecting methods and equipment being used. Sterilization and High Level Disinfection Procedures have been validated for the following equipment and methods:

#### Sterilization

##### Steam Autoclave

Do not exceed 135°C/275°F.

##### High Level Disinfection

##### Pasteurization

Pasteurize at 70°C +/- 3°C (153° - 163°F) for a minimum of 30 minutes.

##### Cold Chemicals

#### Recommended Chemicals: 2-4% Activated Glutaraldehyde Solutions

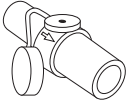
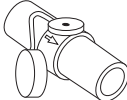




Thoroughly rinse with sterile water. Exposure time should be based on the manufacturer's indication for use as a high-level disinfectant or sterilant. Do not use alcohol or chemicals containing dimethyl ammonium chloride.

**Always carefully examine the physical integrity of this product after processing. Do not use if cracking or crazing is seen, or if parts fit together improperly after processing.**



Visit [iiimedical.com/symbols.pdf](http://iiimedical.com/symbols.pdf) for the Glossary of Symbols used in Instrumentation Industries, Inc. labeling.

## H Product Specifications

	<b>RTC 15-D Metered Dose Inhaler (MDI) Adapter</b>		<b>RTC 15-P Metered Dose Inhaler (MDI) Adapter</b>
<b>Use</b>	<b>Single Patient Reuse</b> (see Panel A for info)	<b>Use</b>	<b>Single Patient Reuse</b> (see Panel A for info)
<b>Inlet</b>	15mm O.D.	<b>Inlet</b>	15mm I.D.
<b>Outlet</b>	15mm I.D.	<b>Outlet</b>	15mm I.D.
<b>Length</b>	2"	<b>Length</b>	2"
<b>Materials</b>	Polystyrene Butadiene <b>Body</b> Thermoplastic Rubber <b>Cap</b>	<b>Materials</b>	Polystyrene Butadiene <b>Body</b> Thermoplastic Rubber <b>Cap</b>
<b>Color</b>	<b>Body</b> Clear <b>Cap</b> Clear	<b>Color</b>	<b>Body</b> Clear <b>Cap</b> Clear
	<b>RTC 22-A Metered Dose Inhaler (MDI) Adapter</b>		<b>RTC 22-D Metered Dose Inhaler (MDI) Adapter</b>
<b>Use</b>	<b>Reusable</b>	<b>Use</b>	<b>Single Patient Reuse</b> (see Panel A for info)
<b>Inlet</b>	22mm I.D.	<b>Inlet</b>	22mm I.D.
<b>Outlet</b>	15mm I.D./22mm O.D.	<b>Outlet</b>	15mm I.D./22mm O.D.
<b>Length</b>	2"	<b>Length</b>	2"
<b>Materials</b>	Polyetherimide <b>Body</b> Silicone Rubber <b>Cap</b>	<b>Materials</b>	Polystyrene Butadiene <b>Body</b> Thermoplastic Rubber <b>Cap</b>
<b>Color</b>	<b>Body</b> Amber <b>Cap</b> Clear	<b>Color</b>	<b>Body</b> Clear <b>Cap</b> Clear
	<b>RTC 23-A Metered Dose Inhaler (MDI) Adapter</b>		<b>RTC 23-D Metered Dose Inhaler (MDI) Adapter</b>
<b>Use</b>	<b>Reusable</b>	<b>Use</b>	<b>Single Patient Reuse</b> (see Panel A for info)
<b>Inlet</b>	15mm I.D./22mm O.D.	<b>Inlet</b>	15mm I.D./22mm O.D.
<b>Outlet</b>	15mm I.D./22mm O.D.	<b>Outlet</b>	15mm I.D./22mm O.D.
<b>Length</b>	2"	<b>Length</b>	2"
<b>Materials</b>	Polyetherimide <b>Body</b> Silicone Rubber <b>Cap</b>	<b>Materials</b>	Polystyrene Butadiene <b>Body</b> Thermoplastic Rubber <b>Cap</b>
<b>Color</b>	<b>Body</b> Amber <b>Cap</b> Clear	<b>Color</b>	<b>Body</b> Clear <b>Cap</b> Clear

 **Instrumentation  
Industries, Inc.**

# MDI Adapter

*Installation &  
Usage  
Directions*

**RTC 15-D  
RTC 15-P**

**RTC 22-A  
RTC 22-D**

**RTC 23-A  
RTC 23-D**



*For use with metered dose inhaler  
canisters, with standard size metal  
(.109 inch diameter) or plastic  
(.124 inch diameter) stems.*



**Instrumentation  
Industries, Inc.**

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**Rx  
ONLY**

**NON  
STERILE**

## A Indications for Use

The Instrumentation Industries, Inc. **RTC 15-D, RTC 15-P, RTC 22-A, RTC 22-D, RTC 23-A, and RTC 23-D Adapters** are actuators for intermittent delivery of prescribed aerosol medication dispensed in metered dose inhalers. **RTC 15-D, RTC 15-P, RTC 22-A, RTC 22-D, RTC 23-A, and RTC 23-D Adapters** are intended for use only when connected to ventilator tubing or tracheal tubes.

The **RTC 15-D, RTC 15-P, RTC 22-D, and RTC 23-D Adapters** are intended for **Single Patient Reuse**. (Can be used to repeatedly administer medications to one single patient while installed in a breathing circuit.) **RTC 22-A and RTC 23-A adapters** are intended to be Reusable. These devices are intended for sale by or on the order of a physician.

## B Contraindications

None known.

## C Notes

— All illustrations are examples.

— Consult facility validated procedures for desired placement.

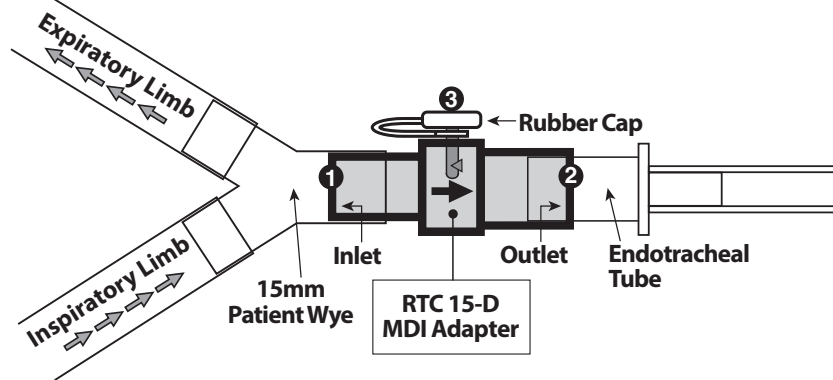
— Additional adapters or connectors may be needed in certain placements.

— In all set-ups, direction arrow must be pointing in the direction of airflow.

## D Installation Instructions

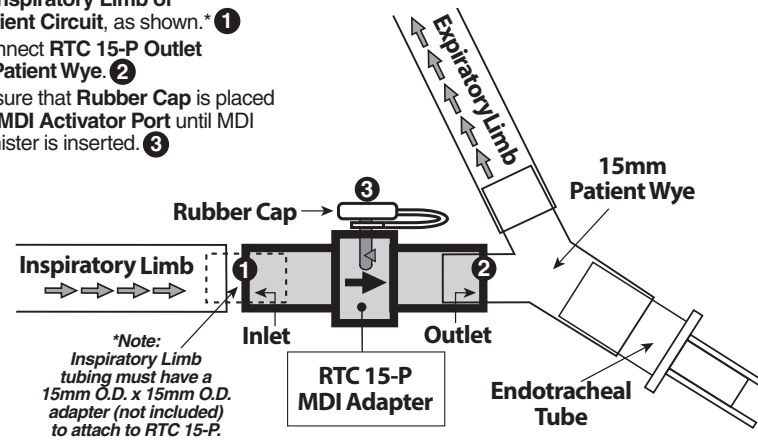
### RTC 15-D — Placed at Endotracheal Tube

1. Connect **RTC 15-D Inlet** to **Patient Wye**, as shown. **1**
2. Connect **RTC 15-D Outlet** to **Endotracheal Tube**. **2**
3. Ensure that **Rubber Cap** is placed on **MDI Activator Port** until MDI canister is inserted. **3**



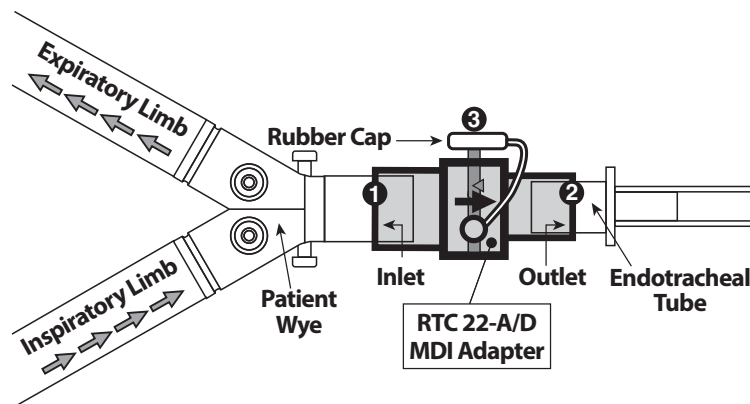
### RTC 15-P — Placed in Inspiratory Limb

1. Connect **RTC 15-P Inlet** to **Inspiratory Limb of Patient Circuit**, as shown.\* **1**
2. Connect **RTC 15-P Outlet** to **Patient Wye**. **2**
3. Ensure that **Rubber Cap** is placed on **MDI Activator Port** until MDI canister is inserted. **3**



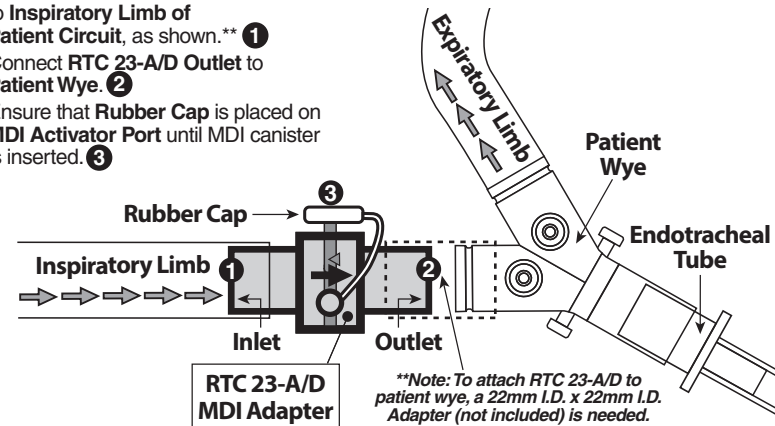
### RTC 22-A/D — Placed at Endotracheal Tube

1. Connect **RTC 22-A/D Inlet** to **Patient Wye**, as shown. **1**
2. Connect **RTC 22-A/D Outlet** to **Endotracheal Tube**. **2**
3. Ensure that **Rubber Cap** is placed on **MDI Activator Port** until MDI canister is inserted. **3**



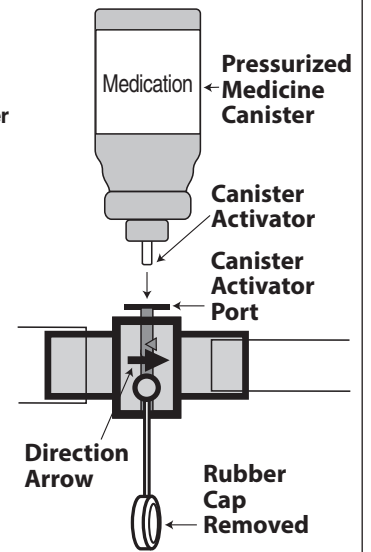
### RTC 23-A/D — Placed in Inspiratory Limb

1. Connect **RTC 23-A/D Inlet** to **Inspiratory Limb of Patient Circuit**, as shown.\*\* **1**
2. Connect **RTC 23-A/D Outlet** to **Patient Wye**. **2**
3. Ensure that **Rubber Cap** is placed on **MDI Activator Port** until MDI canister is inserted. **3**



## E Canister Insertion

1. Install **MDI Adapter in Patient Circuit**. (Panel D)
2. Remove **Rubber Cap** from **MDI Adapter Canister Activator Port**.
3. Insert **Pressurized Medicine Canister** into **Canister Activator Port**.



## F Canister Activation

- Prior to activation, make sure that the **Pressurized Medicine Canister** is fully seated in **MDI Adapter**.
- While activating the **Pressurized Medicine Canister**, press the canister straight down without tilting.
- Two hands may be necessary to keep canister aligned properly.

1. At the beginning of the inspiratory cycle, depress the **Pressurized Medicine Canister** by placing fingers underneath **MDI Adapter** and pressing top of canister with thumb.
2. Remove **Canister** from **MDI Adapter Canister Activator Port**.
3. Replace **Rubber Cap**.

