



Expect Service

Radiation Products Design Inc

INSTRUCTIONS

RPD INFORMATION

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RPD PRODUCT INFORMATION

Item Number	Description
970-350	Titanium Mini-Ovoid Long Handle Applicator with Titanium Pivot Set, Includes Sterilization Tray
970-350-01	Titanium Mini-Ovoid Long Handle Applicator with Titanium Pivot Set, No Sterilization Tray
970-350-02	Titanium Mini-Ovoid Long Handle Applicator with Titanium Pivot and Two Bucket Carriers

SET INCLUDES

- (1) Applicator with Titanium Pivot and Two Bucket Carriers
- (4) Titanium Tandems and Caps (15°, 30°, 45°, and 60°)
- (2) Flagged Cervical Stops, Titanium
- (1) 3/32" Allen Wrench
- (4) Plastic Tandems and Pushers for Sources
- (1) Sterilization Tray



DISCLAIMER

THIS PRODUCT IS NOT STERILE AND IS TO BE USED BY AUTHORIZED PERSONNEL ONLY.

RADIATION PRODUCTS DESIGN INC assumes no liability for consequential damages of any kind for this material when used or for any direct or indirect consequences of its use or misuse by their customer.

IMPORTANT

The density of the Titanium Applicator is virtually the same as a stainless steel applicator. However, it is strongly recommended that you obtain your own isodose curves before using the Titanium Applicator for treatment purposes.

DESCRIPTION

The Titanium Mini-Ovoid Long Handle Afterloading Applicator Set with Titanium Pivot was designed for the patient with a narrow or tortuous vault that will not accommodate the round ovoid of the standard Fletcher-Suit Applicator. The ovoid is flattened medially to accommodate a very small anatomy. The flattened area results in an increased dose to the cervix. The handle is 19 cm long to the ovoid center. The ovoids are 12 mm in width, 29 mm high, have a 15° angle and **do not have shielding**. The applicator bucket carriers accommodate Cesium 137 sources up to 3.2 mm diameter x 20 mm long. Option dummy sources are available (Item 985-000 to Item 985-031). Tungsten shielded high temperature plastic ovoid caps are optional. The titanium tandems are marked every 2 cm over a 12 cm range.

STERILIZATION INSTRUCTIONS

Applicator, Ovoid Caps and Tandems

- Cleaning: Use detergent similar to Klenzyme®, Manu-Klenz® or NpH-Klenz® and water. Ultrasound cleaner may be used.
- Sterilization: Steam Autoclave.

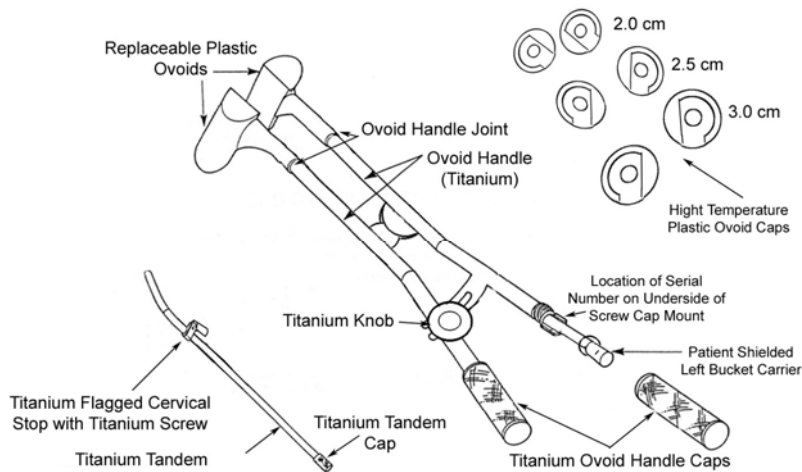
Sterilization Tray

- Sterilization: Steam Autoclave at normal cycle.
- Warning: **DO NOT** Flash Steam Sterilize, may cause nylon coating to flake off. Not certified for Sterrad.

BUCKET CARRIER INSERTION INSTRUCTIONS

- A. Hold the bucket carrier horizontally with the flat area of the handle facing up. The bucket will hang down, allowing the radiation source to be loaded.
IMPORTANT: Load source in a protected area, then transport to patient area.
- B. Remove the ovoid handle caps from the patient applicator. Remove the patient left gold bucket carrier marked "L" on the flat area of the handle, from the portable safe. Hold the bucket carrier in a downward angle and rotate the bucket carrier 180 degrees so the flat area marked "L" is down. Now the bucket is straight with the carrier handle and can be inserted into the patient left applicator ovoid handle tube easily. After inserting 3 cm, rotate the bucket carrier 180 degrees so the flat area marked "L" is up. Continue to insert the bucket carrier until it touches the tubing bend. Rotate the handle CW or CCW slightly while applying light forward pressure until the bucket goes past the tubing bend and into the ovoid head, **DO NOT FORCE**. The bucket carrier handle groove will then align with the end of the ovoid handle tube.
- Repeat steps for the patient right bucket carrier marked "R" on the flat area of the handle.
- To remove the bucket carrier, rotate the handle CW or CCW slightly to get past the tubing bend, **DO NOT FORCE**. Then place in portable safe. Replace the ovoid handle caps on the applicator. A spring inside of the ovoid handle cap ensures that bucket carrier is always pushed forward into the ovoid head.
- C. Repeat for CT dummy bucket carriers.

APPLICATOR DIAGRAM



INSPECTION TEST

Separate the applicator Colpostat into two halves and conduct tests A and B on each half as follows:

MECHANICAL TEST A

Conduct this test on each half of the Colpostat:

Gently manipulate each ovoid with one hand while holding the ovoid handle with the other. Each ovoid should be solidly attached to the handle. If the ovoid is loose, Test A fails and no other tests need to be done. If Test A passes, continue to Test B.

PRESSURE TEST B

Conduct this test on each half of the Colpostat:

1. Remove the ovoid handle cap from the end of the ovoid handle.
2. Remove the bucket carrier.
3. Stand the colpostat in a beaker of water to a depth above the ovoid handle joint.
4. Apply slight air pressure on the open end of the colpostat handle (using for example, a 20cc syringe connected to surgical tubing connected to the colpostat handle), and look for air bubbles escaping from the ovoid or ovoid handle joint. If bubbles are seen, Test B fails. If Test B passes, the ovoid is solidly attached to the ovoid handle and no immediate action is necessary.

IF TEST A OR B FAILS STOP USING APPLICATOR

COLPOSTAT FOR PATIENT THERAPY. Send complete unit in for repair, including bucket carriers, to Radiation Products Design, Inc.

TANDEM TEST C

Visually inspect each tandem for flaking off of the coating or any signs of corrosion.

OVOID CAP TEST D

Visually inspect each ovoid cap inside for loose half cylinder. If loose, return for repair.

The above tests can be conducted at Radiation Products Design, Inc. for a minimal charge.

REPLACEMENT PARTS

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-101	DVD on Fletcher Colpostat Technique
970-220	3/32" Allen Wrench
970-229	Tandem Support Bracket, Stainless Steel with 1/16" Wrench
970-300	Titanium Tandem, Straight Standard with Cap
970-301	# 1 Titanium Tandem, 15° Standard with Cap
970-302	# 2 Titanium Tandem, 30° Standard with Cap
970-303	# 3 Titanium Tandem, 45° Standard with Cap
970-304	# 4 Titanium Tandem, 60° Standard with Cap
970-312	Titanium Cap for Tandem
970-317	Titanium Flagged Cervical Stop
970-318	Titanium Screw for Flagged Cervical Stop #4-40 x 5/1
970-350-50	Locking Knob, #6-32, Titanium
970-350-18	Tandem Support Hook Assembly, Titanium
970-353-12	Titanium Cap for Ovoid Handle
970-353-60	Right/Left CT Imaging Marker - Titanium / Delrin
970-353-70	Right/Left Bucket Carrier - Stainless Steel
970-645-06	Sterilization Tray
970-650-40	2.0cm Right Ovoid HTP Cap w/Tungsten
970-650-41	2.0cm Left Ovoid HTP Cap w/Tungsten
970-650-42	2.5cm Right Ovoid HTP Cap w/Tungsten
970-650-43	2.5cm Left Ovoid HTP Cap w/Tungsten
970-650-44	3.0cm Right Ovoid HTP Cap w/Tungsten
970-650-45	3.0cm Left Ovoid HTP Cap w/Tungsten
970-670-59	3/32" Long Handle Allen Wrench (S.S.)