



Expect Service

Radiation Products Design Inc

INSTRUCTIONS

RPD INFORMATION

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RPD PRODUCT INFORMATION

Item Number	Description
970-541	FSD Shielded Round Ovoid Long Handle Applicator with Stainless Steel Pivot Set, Includes Sterilization Tray
970-541-1	FSD Shielded Round Ovoid Long Handle Applicator with Stainless Steel Pivot Set - No Sterilization Tray
970-541-2	FSD Shielded Round Ovoid Long Handle Applicator with Stainless Steel Pivot and Caps ONLY

**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.

FSD SHIELDED ROUND OVOID LONG HANDLE
APPLICATOR



ITEM 970-541 INCLUDES

- (1) Applicator with Stainless Steel Pivot and Two Bucket Carriers
- (2) 2.5 cm Diameter Nylon Ovoid Cap
- (2) 3.0 cm Diameter Nylon Ovoid Cap
- (4) Stainless Steel Tandems and Caps (15°, 30°, 45°, and 60°)
- (1) Cervical Stop
- (2) Flagged Cervical Stops
- (1) 3/32" Allen Wrench
- (4) Plastic Tandems and Pushers for Sources
- (1) Sterilization Tray

ITEM 970-541-1 INCLUDES

- (1) Applicator with Stainless Steel Pivot and Two Bucket Carriers
- (2) 2.5 cm Diameter Nylon Ovoid Cap
- (2) 3.0 cm Diameter Nylon Ovoid Cap
- (4) Stainless Steel Tandems and Caps (15°, 30°, 45°, and 60°)
- (1) Cervical Stop
- (2) Flagged Cervical Stops
- (1) 3/32" Allen Wrench
- (4) Plastic Tandems and Pushers for Sources

ITEM 970-541-2 INCLUDES

- (1) Applicator with Stainless Steel Pivot and Two Bucket Carriers
- (2) 2.5 cm Diameter Nylon Ovoid Cap
- (2) 3.0 cm Diameter Nylon Ovoid Cap

IMPORTANT

The density of the stainless steel applicator is 7.916 g/cm³ and the tungsten density is 19.3 g/cm³. However, it is strongly recommended that you obtain your own isodose curves before using the applicator for treatment purposes.

DESCRIPTION

FSD Shielded Round Ovoid Long Handle Applicator with Stainless Steel Pivot employs the same features as the Rectangular Handle Fletcher-Suit Afterloading applicator but is less bulky, lighter, and has an easier source loading procedure. The lead (density 11.35 g/cm^3) shields were replaced with high density 19.3 g/cm^3 tungsten. The handle is 19 cm long to the ovoid center. The ovoid's are 20 mm in diameter, 30 mm high, have a 15° angle. The ovoid's have immovable tungsten shielding for bladder and rectal protection. The handle is stainless steel for durability with a lightweight titanium knob and lightweight titanium ovoid handle caps. The handle is completely Heli-Arc welded at all joints including pivot and locking for unbreakable joints. The applicator bucket carriers accommodate Cesium 137 sources up to 3.2 mm diameter x 20 mm long. A hole in the bucket carrier allows the user to push the source out, if the source gets stuck inside the bucket carrier. Ovoid caps increase the diameter of the ovoid. Four ovoid caps, (2) 2.5 cm and (2) 3.0 cm diameter are furnished with the applicator. The stainless steel tandems are marked every 2 cm over a 12 cm range. Optional items available include Stainless Steel Tandem Support Bracket with 1/16" Allen Wrench (Item 970-229) Tungsten Dummy Sources (Item 985-030) and Cesium 137 Tube Sources (Items 067-6510 to 067-6540).

STERILIZATION INSRUCTIONS

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

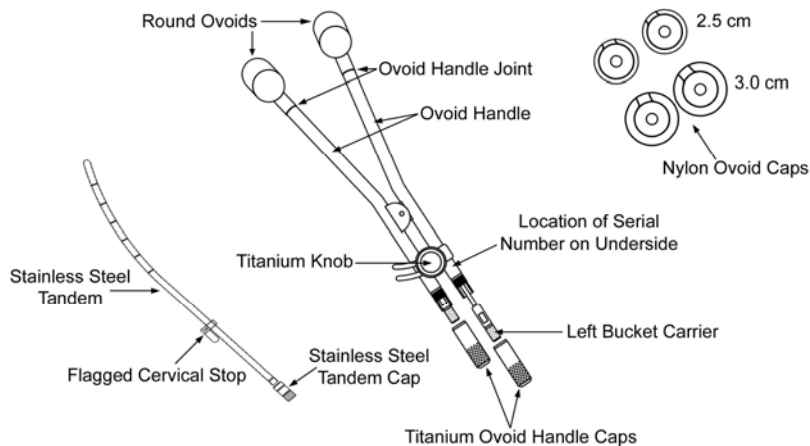
Sterilization: Steam Autoclave.

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 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 flat area marked "L" is up and the carrier handle groove will then align with the end of the ovoid handle tube. Replace the ovoid handle cap on the applicator. A spring inside of the ovoid handle cap ensures that bucket carrier is always pushed forward into the ovoid head.
- 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.

APPLICATOR DIAGRAM



INSPECTION TEST

Separate the applicator Colpostat into two halves and conduct PRESSURE TEST on each half as follows:

PRESSURE TEST

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 fails. If Test passes, the ovoid is solidly attached to the ovoid handle and no immediate action is necessary.

IF TEST FAILS STOP USING APPLICATOR FOR PATIENT THERAPY. Send complete unit in for repair, including bucket carriers, to Radiation Products Design, Inc.

TANDEM TEST

Visually inspect each tandem for any signs of corrosion.

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
970-201	# 1 Tandem, 15° Standard with Cap
970-202	# 2 Tandem, 30° Standard with Cap
970-203	# 3 Tandem, 45° Standard with Cap
970-204	# 4 Tandem, 60° Standard with Cap
970-212	Cap for Tandem
970-216	Cervical Stop
970-217	Flagged Cervical Stop
970-218	Screw for Cervical Stop #4-40x5/16" Socket Head
970-220	3/32" Allen Wrench
970-360-30	Titanium Cap for Ovoid Handle
970-360-32	Locking Knob, #6-32, Titanium
970-541-40	Left Bucket Carrier - Stainless Steel
970-541-42	Right Bucket Carrier - Stainless Steel
970-541-50	2.5cm Left/Right Nylon Ovoid Cap
970-541-52	3.0cm Left/Right Nylon Ovoid Cap
970-645-06	Sterilization Tray w/Steam Autoclave Nameplate

OPTIONAL ITEMS

Item #	Description
067-6510	Cs-137 Tube Source, 10 mg Ra Equivalent-Red
067-6515	Cs-137 Tube Source, 15 mg Ra Equivalent-Black
067-6520	Cs-137 Tube Source, 20 mg Ra Equivalent-White
067-6525	Cs-137 Tube Source, 25 mg Ra Equivalent-Blue
067-6530	Cs-137 Tube Source, 30 mg Ra Equivalent-Orange
067-6535	Cs-137 Tube Source, 35 mg Ra Equivalent-Green
067-6540	Cs-137 Tube Source, 40 mg Ra Equivalent-Gray
970-101	DVD on Fletcher Colpostat Technique
970-200	Optional: Tandem, Straight Standard with Cap
970-229	Optional: Tandem Support Bracket, Stainless Steel with 1/16" Allen Wrench
985-030	Tungsten Dummy Source, 3.0mm Dia. x 20mm L

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