

GYN APPLICATORS & ACCESSORIES

PERMA-DOC PHANTOM

Compatible with VariSource® / MicroSelectron® / GammaMed® HDR Afterloading Systems



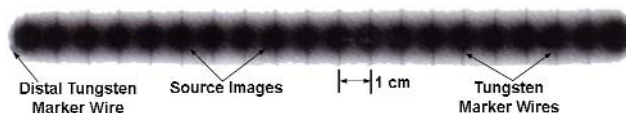
The PermaDoc Phantom is shown with the permanently embedded tungsten wire centimeter scale and removable 3mm diameter tandems.

“Your Daily Quality Assurance performed with Ease and Confidence!”

- Verifies Source Positioning and Stepping Accuracy
- Images Centimeter Scale Directly on Film
- Requires Single Exposure Only
- Set-up Accomplished in Seconds
- Eliminates All Guess-Work
- Precision Built
- Compatible with All HDR Units
- Fulfills Documentary QA Requirements

The Perma-Doc Phantom provides the necessary permanent documentation required by the NRC's new and stringent quality assurance tests associated with HDR. The Perma-Doc Phantom, with its centimeter scale automatically transferred to the film by fluorescent radiation, identifies up to 20 source positions and their stepping accuracy. Two matching 3/8" plexi plates allow for insertion of a 10" x 12" ready-pack V-film. The film is exposed by the HDR Ir-192 source with dwell times of 1 second over a maximum of 20 positions spaced 1 cm apart. The resulting film displays the source images superimposed on the image of the centimeter scale.

Source Images are Superimposed on the Image of the Centimeter Scale



Shown is part of the V-film exposed with an HDR Ir-192 source for dwell times of 1 second over a distance of 20 cm. Source position and stepping accuracy are verified by scale lines that pass exactly through the centers of the corresponding source images. Most importantly, the first two distally located markers are spaced such as to represent the distance from tip of tandem to center of active source.

For example: Tip of tandem to center of source for the GammaMed 12i sources is 3.75mm, i.e., separation of the first two tungsten wires is 3.75mm. With the incorporation of the distal marker wire, the necessity to prick a hole into the film is therefore eliminated.

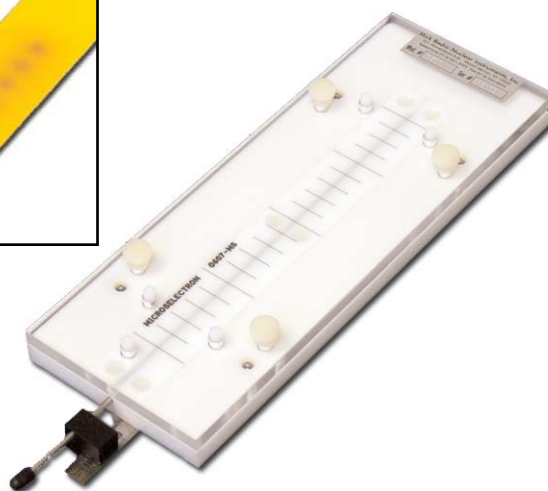
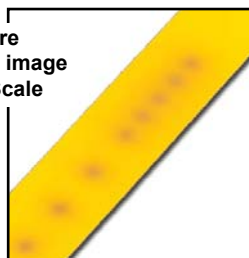
Item #	Description
940-400-V	Perma-Doc Phantom, VariSource® HDR
940-400-M	Perma-Doc Phantom, microSelectron® HDR
940-400-G	Perma-Doc Phantom, GammaMed® 12i(t) HDR
940-400-GM	Perma-Doc Phantom, GammaMed® Plus HDR

Specify Connector Type: Click Fit or Screw

GYN APPLICATORS & ACCESSORIES

PERMA-DOC GC PHANTOM For use with GAFCHROMIC® RTQA Film

Source Images are
Superimposed on the image
of the Centimeter Scale



- Verifies Source Positioning and Stepping Accuracy
- Images Centimeter Scale Directly on Film
- Requires Single Exposure Only
- Set-Up Accomplished in Seconds
- Eliminates All Guess-Work
- Small / Lightweight and Precision Built
- Compatible with all HDR Remote Afterloaders
- Fulfills Documentary QA Requirements
- GAFCHROMIC® RTQA Film is “Self-Developing”
- Eliminates the Need of a Darkroom
- Film can be Handled in Room Light
- Simple, Easy and Efficient QA Management

The Perma-Doc GC Phantom is designed to check source positioning and stepping accuracy of all popular HDR remote afterloading systems and provides a permanent record. The Perma-Doc GC Phantom has a centimeter scale, which is projected onto the GAFCHROMIC® RTQA film by fluorescent radiation, and readily locates, up to 20 source positions.

The device consists of two plexi-glass plates stacked on top of each other with five locating pins and four knobs to ensure alignment. Four embedded ball plungers provide a space for easy

insertion of the film. A 3 mm diameter groove is provided for the insertion of a straight tandem. A metric ruler is attached to the microSelectron® phantom below the tandem to assist in setting the tandem to the calibrated position. A thumbscrew is provided to keep the tandem securely in place.

According to U.S. Regulatory Commission 10 CFR 35.633, source positioning accuracy on remote afterloading units is to be within ± 1 mm. Additionally, it is highly recommended to check source positioning accuracy daily or prior to HDR treatments. The test consists of 3 easy steps: insertion of GAFCHROMIC® RTQA film into PermaDoc Phantom, attachment of the source transfer tube to the PermaDoc Phantom and exposing the GAFCHROMIC® RTQA film. Due to the “self-developing” attribute of the film, the need for a visit to the darkroom is therefore eliminated.

Specifications

Size: 4" x 13" x 1 5/8" (10.2 x 33 x 4.2 cm) Tandem Inserted
Weight: 1.75 lb (0.8 kg)

Note: The PermaDoc GC Phantom can only be used with GAFCHROMIC® RTQA film strips.

Item #	Description
940-406-G	PermaDoc GC Phantom, GammaMed12i(t)HDR/Gafchromic RTQA
940-406-GM	PermaDoc GC Phantom, GammaMed PlusHDR/Gafchromic RTQA
940-406-M	PermaDoc GC Phantom, microSelectron HDR/Gafchromic RTQA
940-406-V	PermaDoc GC Phantom, VariSource HDR & Gafchromic RTQA
115-024	Gafchromic Film, RTQA2-111, 1.25" x 11"

GYN APPLICATORS & ACCESSORIES

DOT SOURCE TRANSPORT PIG FOR NINE (9) CS-137 SOURCES

Rental Only



The DOT Source Transport Pig for Nine (9) Cesium-137 Sources provides for safe temporary storage and transport of up to nine (9) Cesium-137 tube sources. The set consists of a pail with a cover and handle for carrying, foam insert, stainless steel container and cap, lead pig with nine holes for sources and a lead cap. Item 067-650 is for rental only. Rental time is 30 days.

Specifications

Pig Cap: 37 mm Lead

Pig Sides: 35 mm Lead

Pig Bottom: 30 mm Lead

Hole Size: 3.17 mm Diameter x 1.65 mm

Stainless Steel Container: 29 mm bottom

Weight: 35 lbs (16 kg)

Item	Description
067-650	DOT Source Transport Pig, RENTAL ONLY

SLESSINGER BOARD FOR HDR BRACHYTHERAPY



Photos courtesy of S.Dahlbeck, MD and A. Fung, PhD, University Medical Center, Lubbock, TX

- **CT and MR Compatible**
- **Easy to Clean**

The Slessinger Board is a padded sliding board that is CT and MR compatible. It is designed to facilitate HDR brachytherapy, specifically for pelvic treatments. The patient can be transferred onto the board from the operating room couch and remain on the board in recovery, during imaging for planning and until the HDR treatment is given. The intent is to minimize patient movement to ensure that the imaging for planning is not compromised by patient leg movement prior to treatment and thus delivering the treatment plan faithfully. The legs are slightly elevated, affording ready access to the perineum and preventing applicators from resting against anything. Leg elevation is maintained with the use of two (2) tightening knobs at the end of the elevation panels. Transfers

on and off CT/MR/simulator couches are relatively easy due to the smooth plastic bottom surface and side handles. The board is also very useful when a patient is transferred via ambulance from the surgical facility to the treatment facility.

Image guided HDR brachytherapy is gaining in prominence. Prostate and gynecological applications are reliant on patient stability and comfort between the acquisition of imaging for planning and treatment. Although the Slessinger Board was devised to facilitate precise prostate HDR brachytherapy its application for image guided GYN HDR is also very significant with increasing reliance on DVH analyses. The concept of limiting rotation of a multichannel APBI balloon is yet another possible application, by avoiding the patient walking between imaging and treatment prior to each treatment fraction. The rationale and description of the Slessinger Board has also been described in the Brachytherapy Journal article by Slessinger, entitled "Practical considerations for prostate HDR brachytherapy", published early in 2010.

The Slessinger Board can be easily cleaned with non-caustic germicidal cloths or sprays. Patients may not be carried on the Slessinger Board, but rather are transferred directly from one support to another.

Specifications

Base Dimensions: 24" W x 72" L x 0.75" T (61 x 183 x 1.9 cm)

Base Material: Corrugated polypropylene

Pad Dimensions: 23.5" W x 69" L x 1.5" T (60 x 175 x 3.8 cm)

Pad Material: Vinyl coated closed cell foam

Weight Limit: 350 lb (159 kg)

Item	Description
946-000	Slessinger Board for HDR Brachytherapy

GYN APPLICATORS & ACCESSORIES

ZEPHYR HDR PATIENT TRANSPORT SYSTEM

Scan, transport and treat HDR Brachytherapy patients with ease and accuracy



CT treatment planning has demonstrated its value of providing complete 3D structure definition and dose volume histogram analysis for High Dose Rate (HDR) Brachytherapy treatments. Unfortunately, most facilities lack the ability to perform CT imaging and HDR Brachytherapy treatments within the same, dedicated room.

While there are many logistical challenges, below are some of the more common facing radiation therapy centers desiring to implement CT Imaging within their HDR Brachytherapy programs:

- Most centers require movement of the patient from the CT simulation room to the HDR Brachytherapy suite for treatment. Patient movement can be difficult, particularly for larger patients, often requiring multiple therapists to transfer the patient.
- Patient transportation becomes challenging as multiple transfers of the patient, from CT table to patient stretcher to HDR treatment table, pose high risk for applicator movement and possibly extreme patient discomfort.
- Inability to mount patient stirrups to a standard CT Couch.

The Zephyr HDR Patient Transport System uses air-bearing technology to easily move patients from CT couchtop to patient stretcher to HDR Brachytherapy Table, all the while reducing the possibility of applicator or needle movement. Treatment accuracy is increased while reducing patient transfer challenges.

Item 945-000 Zephyr HDR Patient Transport System Includes

- Zephyr Patient Transport Sled
- Air pillows
- Blower
- Air hose
- Zephyr Patient Transport stretcher
- One pair of stirrups

- Patient scanned in desired treatment position
- Air-bearing technology enables smooth, virtually effortless, lateral and longitudinal movement
- Minimizes changes in implant geometry during patient transfer
- Fast, reliable and safe way to transfer patients from CT couch to stretcher while still in stirrups
- Patient can be treated on Zephyr Patient Stretcher or easily transferred to your current HDR Brachytherapy table
- HDR Brachytherapy procedure can be performed in the same position as the patient was in when implanted and scanned, thereby optimizing the relevance of treatment planning data

Item	Description
945-000	Zephyr HDR Patient Transport System

GYN APPLICATORS & ACCESSORIES

CESIUM-137 BRACHYTHERAPY TUBE SOURCES (EZIP)

The EZIP Cesium-137 brachytherapy tube sources contain a cesium labeled ceramic rod as the active element surrounded by two stainless steel encapsulations, each of which is of welded construction. The tube sources are available as standard size tubes, 20 mm long x 3.05 mm diameter, the inner ceramic active element is 14.8 mm long x 1.52 mm in diameter.

Each source is engraved with the manufacturer name, nuclide (Cs-137) nominal activity in mCi, and serial number.

There is a colored ring, visible from the side and one end to facilitate easy source strength identification.



T

Item #	mg Ra-226 Equivalent (mg)	Color Code	Apparent Nominal Cesium-137 Activity (mCi)	Air Kerma Strength Nominal ($\mu\text{Gy m}^2/\text{h}$)	Air Kerma Manufacturing Range ($\mu\text{Gy m}^2/\text{h}$)	Air Kerma Manufacturing Tolerance (%)
067-6510	10	Red	25.0 mCi	72.3	70.1 - 79.5	+10.0/-3.0
067-6515	15	Black	37.5 mCi	108.4	105.1 - 119.2	+10.0/-3.0
067-6520	20	White	50.0 mCi	144.5	140.2 - 159.0	+10.0/-3.0
067-6525	25	Blue	62.5 mCi	180.7	176.2 - 197.9	+9.5/-2.5
067-6530	30	Orange	75.0 mCi	216.8	212.5 - 235.4	+8.6/-2.0
067-6535	35	Green	87.5 mCi	252.9	252.9 - 269.8	+6.7/-0.0
067-6540	40	Gray	100.0 mCi	289.1	289.1 - 308.2	+6.6/-0.0

Note: EZIP assays of Cesium sources are generally ~3% lower than the value certified by Cesium. Adjust Air Kerma tolerances an additional +3% to allow for this.

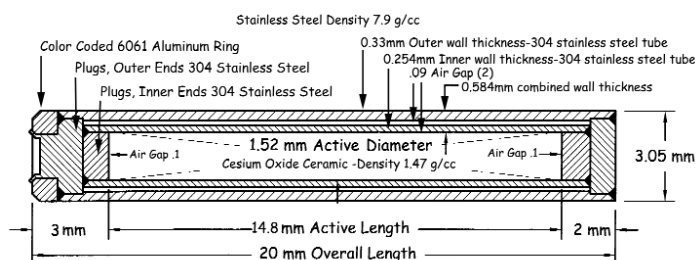


Table 1

Years	Decay Factor	Years	Decay Factor
0.0	1.00	5.5	.88
0.5	.99	6.0	.87
1.0	.98	6.5	.86
1.5	.97	7.0	.85
2.0	.95	7.5	.84
2.5	.94	8.0	.83
3.0	.93	8.5	.82
3.5	.92	9.0	.81
4.0	.91	9.5	.80
4.5	.90	10.0	.79
5.0	.89		

Documentation Needed to Place Order:

- A copy of your NRC license
- End Use Statement

Assumptions:

- Cesium-137 Energy: 0.66 MeV
- Gamma Factor for Cs-137: 3.3
- Gamma Factor (filtered) for Ra-266: 8.25
- Air Kerma Strength: 7.227uGy m2h-1 / mgRaEq10
- Tolerance: 5%

Radiation Protection

The HVL in lead for Cesium-137 is 6.5 mm
The TVL in lead for Cesium-137 is 21 mm

Physical Characteristics

Cesium-137 has a half-life of 30.0 years and decays with the emission of a monoenergetic gamma ray of 0.66 MeV.

To correct for physical decay of Cesium-137, the decay factors at selected years after the assay date are shown in Table 1.

How Supplied

EZIP Cesium-137 tube sources are packaged in a lead pig which is labeled to indicate the isotope, amount of activity, and calibration date. A calibration certificate and instructions for safe handling and use are also supplied.

T - 6

Leak Testing

EZIP Cesium-137 tube sources are leak tested prior to shipment and the results provided with shipping certification papers that accompany each shipment.

Licensing

The U.S. Nuclear Regulatory Commission has approved this sealed source (SSDR# CA0406S125S) for distribution to persons licensed to use by product material identified in §35.400 of 10 CFR Part 35, to persons who hold an equivalent licenser issued by an Agreement State, and outside the United States, to person authorized by the appropriate authority.

Federal law restricts this device for sale by or on the order of a physician. Please observe the Department of Transportation (DOT) regulations for hazardous material contained in Title 49, code of Federal Regulations (HMR;49CFR), transport and use of radioactive material.

Isodose Curves Available Upon Request

Visit us at www.rpdinc.com or call 1.800.497.2071 for additional information, specifications, or MSDS information.

GYN APPLICATORS & ACCESSORIES

HANDLING INSTRUMENTS



Item #	Description
970-439	10" Curved Forceps
970-440	10" Tweezers for 1/8" Source Handling
970-441	10" Tweezers
1006-01	5 1/2" Scissors
970-442	12" Tweezers
970-443	6.5 " Reverse Action Tweezers with Groove

HOLDING FORCEPS



Item #	Forceps
970-952	Straight, Serrated, 9 1/2"
970-960	Curved, Serrated, 9 1/2"
970-978	Straight, Smooth, 9 1/2"
970-986	Curved, Smooth, 9 1/2"

RADIATION IMPLANT BRIEF



- Effective means of securing the implant
- Comfortable - no sutures
- No skin irritation - no tape
- Maintains patient dignity
- Reduces staff exposure to radiation

The radiation implant brief will accommodate LDR and HDR gyn brachytherapy applicators. The brief is made of a soft cotton lycra spandex and is sized according to a womens standard undergarment size. A slit in the fabric allows the physician to insert the applicator and catheters and to pack the vaginal cavity with gauze. The implant is held in place by a strap that goes between the leg from front to back.

The brief is comfortable for the patient as no labia sutures or tape are needed. The brief covers the patient genitalia and perineum which helps maintain the patient's dignity.

Item #	Radiation Implant Brief
970-050	S, Fits 36-38" Hips (underpant 5)
970-051	M, Fits 39-41" Hips (underpant 6)
970-052	L, Fits 42-44" Hips (underpant 7)
970-053	XL, Fits 45-47" Hips (underpant 8)
970-054	1X, Fits 48-50" Hips (underpant 9)

Item #	Radiation Implant Brief
970-055	2X, Fits 51-53" Hips (underpant 10)
970-056	3X, Fits 54-56" Hips (underpant 11)
970-057	4X, Fits 57-59" Hips (underpant 12)
970-058	5X, Fits 60-62" Hips (underpant 13)

ROUNDED NYLON DILATORS



The Rounded Nylon Dilator has one elliptical radius end and one full rounded end. The dilator is 10" long and very durable. It can take a drop to the floor without breaking.

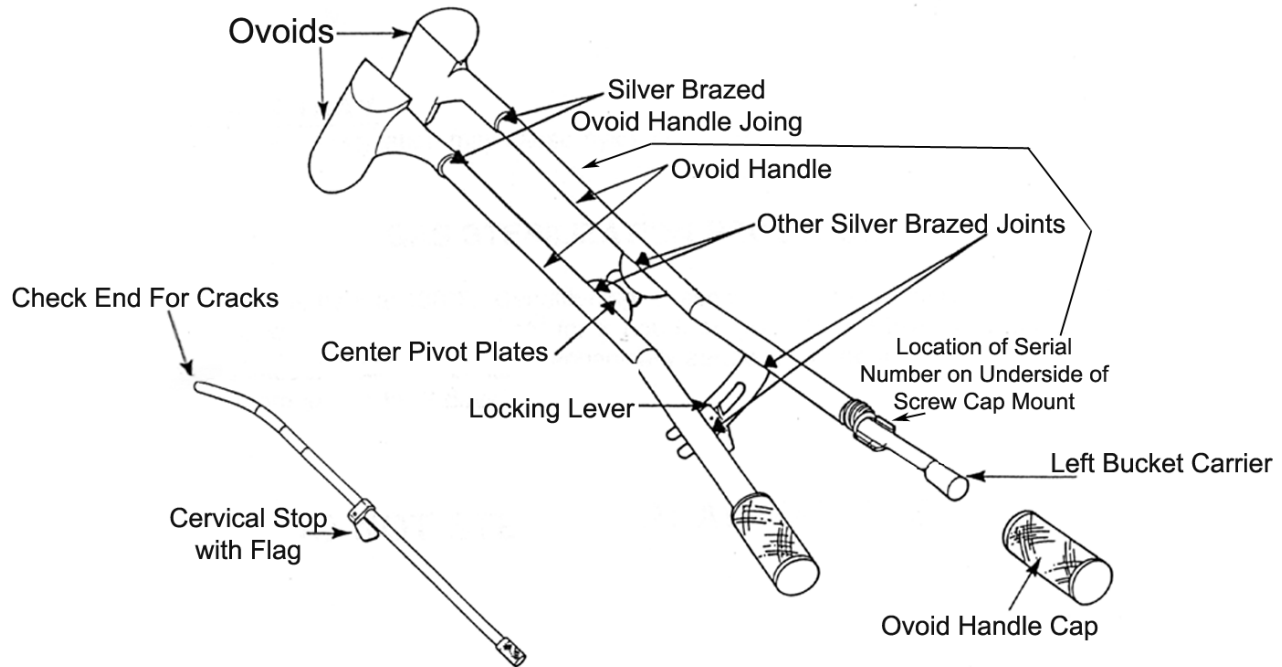
Sterilization: Gas

Item #	Rounded Nylon Dilator
970-656-10	10 mm Diameter
970-656-15	15 mm Diameter
970-656-20	20 mm Diameter
970-656-25	25 mm Diameter
970-656-30	30 mm Diameter
970-656-35	35 mm Diameter
970-656-40	40 mm Diameter
970-656-45	45 mm Diameter
970-656-50	50 mm Diameter

GYN APPLICATORS & ACCESSORIES

Repair and Testing Services for ALL Aferloading Applicators,
Call for Details.

FLETCHER-SUIT-DELCLOS (FSD) APPLICATOR INSPECTIONS, TESTS AND REPAIRS



Complete units, including the bucket carriers, must be sent to Radiation Products Design for repair. When sending in an applicator for repair the following information is needed: contact name, phone number, address and what repairs are needed.

Radiation Products Design does fiber optic inspection of tungsten shielding inside of the ovoid. We can detect if the tungsten shields are mounted at the top and the bottom of the ovoid.

The following tests can be conducted at Radiation Products Design or within your organization:

Separate the Fletcher-Suit-Delclos (FSD) Applicator into two halves and conduct **Tests A, B, C and D** on each half as follows:

Mechanical Test A

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 unit may be repaired. No other tests need to be done. If test A passes, continue to Test B.

Visual Test B

Visually inspect each half of the FSD for hairline cracks at the top and bottom of the ovoid and the ovoid handle joint. Inspect silver-

brazed joints where center pivots and the locking brackets attach to the ovoid handles. If cracks are seen, Test B fails and unit may be repaired. No other tests need to be done. If Test B passes, continue to Test C.

Pressure Test C

Conduct the following test on each half of the FSD:

Test 1: Remove the ovoid handle cap from the end of the ovoid handle

Test 2: Remove the bucket carrier

Test 3: Stand the ovoid in a cup of water to a depth above the ovoid handle joint

Test 4: Apply slight air pressure on the open end of the FSD handle (using for example, a 20 cc syringe connected to surgical tubing connected to the FSD handle), and look for air bubbles escaping from the ovoid or ovoid handle joint. If bubbles are seen, Test C fails and unit may be repaired. If Test C passes, the ovoid is solidly attached to the ovoid handle and no immediate action is necessary.

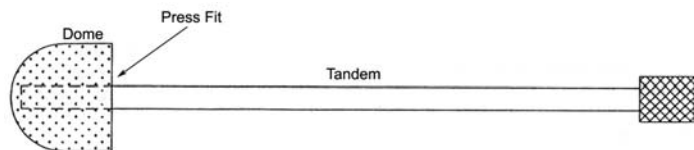
Fiber Optics or Radiograph Test D

Use fiber optic inspection for tungsten placement or radiograph using film.

If Tests A, B, C or D fails stop using the FSD for patient therapy.

GYN APPLICATORS & ACCESSORIES

DELclos UTERINE/VAGINAL AFTERLOADING APPLICATOR TEST AND INSPECTION



Mechanical Test for Dome Tandem Assembly

With one hand grip the dome and with the other hand grip the tandem then try pulling the two apart. If the two pull apart stop using the unit for patient therapy.

CAUTION FOR FLETCHER-SUIT APPLICATORS

"The U.S. Food and Drug Administration (FDA) has received reports of eight incidents in which the closed end of the intrauterine colpostats of a Fletcher Suit applicator separated from the applicator and remained in the uterus after the applicator had been removed, necessitating an additional removal procedure. Clearly this can cause undesirable complications for patients and holds the potential for the loss radioactive sources within the patient's uterus. The reasons for these separations is unknown. However, cleaning the applicator with hydrogen peroxide or glutaraldehyde (Cidex) prior to autoclaving or cold sterilization can result in corrosion of the applicator's welds.

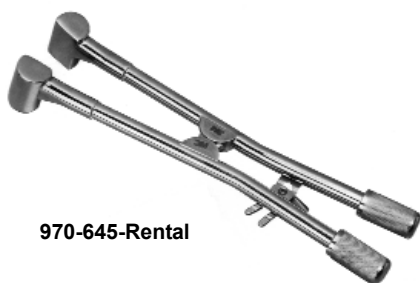
FDA is using this notice to alert users of Fletcher Suit applicators of this potential problem. FDA believes that all Fletcher Suit applicators should be inspected to determine whether or not

the closed end of the colpostats or the colpostats themselves are adequately secured, and that any applicators that are questionable should not be used. Until recently, manufacturers guidance on cleaning and sterilization may not have been clear. The applicators should be cleaned using **only** a mild detergent and water, and then thoroughly rinsed with water before sterilization.

Although, to date, FDA has only received reports of the problems with Fletcher Suit applicators, it is also recommending that all applicators of similar design be checked, and that the same cleaning instructions be followed."

The above article appears in the American Association of Physicists in Medicine. Volume 14 No. 3, May/June 1988, Pages 7 and 8.

RENTALS AND REPLACEMENT PARTS FOR 3M #6586 FSD AFTERLOADING APPLICATOR



970-645-Rental

The 3M #6586 FSD Applicator is no longer available for purchase. Item 970-642, 970-650 and 970-653 on the following pages are suggested replacements.

Complete units including the bucket carriers must be sent to Radiation Products Design for repair or fitting of Ovoid Caps. When sending in an applicator for repair the following information is needed: contact name, phone number, address and what repairs are needed.

Item #	Description
970-645-RENTAL	Rental for 3M #6586 FSD Applicator

Replacement parts for the 3M #6586 Fletcher-Suit Delclos Shielded Afterloading Applicators

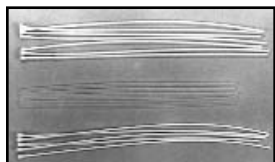
Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-200	Straight Standard Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-220	S.S. 3/32" Allen Wrench
970-229	Optional - S.S. Tandem Support Bracket w/1/16" Wrench

Item #	Description
970-645-06	Sterilization Tray
970-645-12	S.S. Cap for Ovoid Handle
970-645-15	S.S. Locking Knob #6-32
970-645-16	S.S. Locking Lever 3M #6-32
970-645-19	2.0 cm Right "D" Shape Nylon Ovoid Cap
970-645-20	2.0 cm Left "D" Shape Nylon Ovoid Cap
970-645-21	2.0 cm Right Nylon Ovoid Cap w/Tungsten
970-645-22	2.0 cm Left Nylon Ovoid Cap w/Tungsten
970-645-26	2.5 cm Right Nylon Ovoid Cap w/Tungsten
970-645-27	2.5 cm Left Nylon Ovoid Cap w/Tungsten
970-645-31	3.0 cm Right Nylon Ovoid Cap w/Tungsten
970-645-32	3.0 cm Left Nylon Ovoid Cap w/Tungsten
970-645-40	Right S.S. Bucket Carrier
970-645-42	Left S.S. Bucket Carrier

GYN APPLICATORS & ACCESSORIES

PLASTIC AFTERLOADERS

Tandems and Pushers

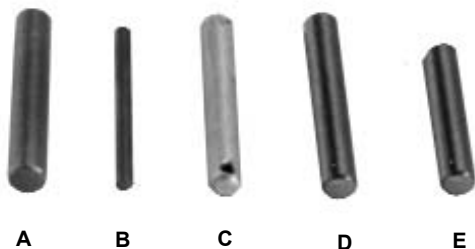


Spacers



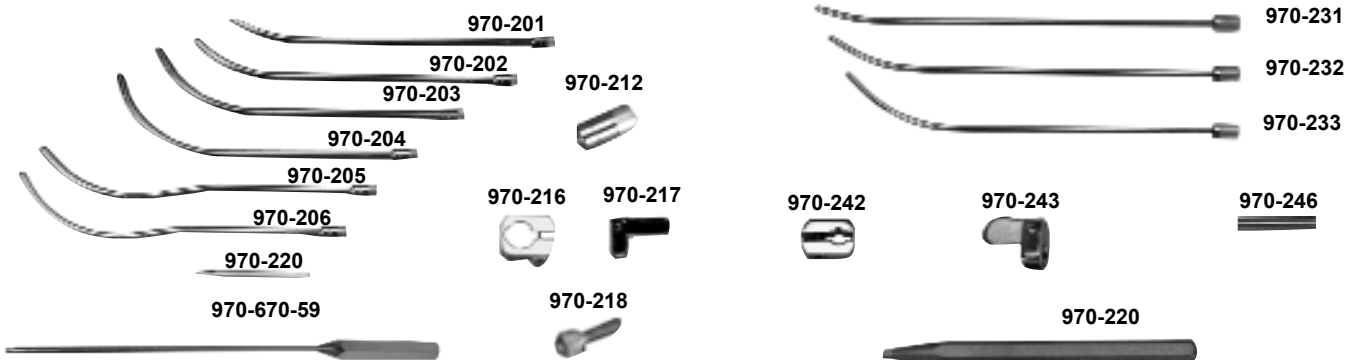
Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems Only
970-020	12 plastic Pushers Only
970-030	50 Nylon Spacer Balls - 3/32" Dia. (2.4 mm)
970-040	12 Mini plastic Tandems and Pushers

TUNGSTEN DUMMY SOURCES



Item #	Description	Size
A 985-001	Tungsten Dummy Source	3.2 mm Dia. x 20 mm L
B 985-010	Tungsten Mini Dummy Source	1.6 mm Dia. x 19 mm L
C 985-030	3M FSD Tungsten Dummy Sources	3.0 mm Dia. x 20 mm L
D 985-031	3M Tungsten Dummy Sources	3.0 mm Dia. x 16 mm L

STANDARD AND MINI TANDEMS

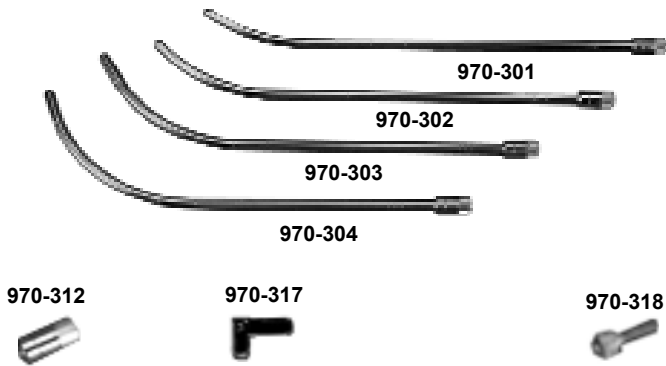


Item #	Description
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-205	#3 - 45° Double Curved S.S. Tandem for Bracket w/Cap
970-206	#4 - 60° Double Curved S.S. Tandem for Bracket w/Cap
970-212	S.S. Cap for Tandem (3M Style)
970-213	S.S. Cap for Tandem (RA Style)
970-216	S.S. Cervical Stop
970-217	S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-220	S.S. 3/32" Allen Wrench
970-670-59	S.S. 3/32" Long Handle Allen Wrench

Item #	Description
970-231	Mini #1 - 15° S.S. Tandem w/Cap
970-232	Mini #2 - 30° S.S. Tandem w/Cap
970-233	Mini #3 - 45° S.S. Tandem w/Cap
970-242	Mini S.S. Cervical Stop
970-243	Mini S.S. Flagged Cervical Stop
970-246	FSD S.S. Bucket Liner for Mini Sources

GYN APPLICATORS & ACCESSORIES

TITANIUM STANDARD TANDEM AND ACCESSORIES



Item #	Description	Material
970-300	Straight Standard Tandem w/Cap	Titanium
970-301	#1 - 15° Standard Tandem w/Cap	Titanium
970-302	#2 - 30° Standard Tandem w/Cap	Titanium
970-303	#3 - 45° Standard Tandem w/Cap	Titanium
970-304	#4 - 60° Standard Tandem w/Cap	Titanium
970-312	Cap for Tandem	Titanium
970-317	Flagged Cervical Stop	Titanium
970-318	Screw Cervical Stop #4-40 x 5/16"	Titanium
970-670-08	15 cm Threaded Tandem for Dome	Titanium
970-220	3/32" Allen Wrench	Stainless Steel
970-670-59	3/32" Long Handle Allen Wrench	Stainless Steel

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GYN APPLICATORS & ACCESSORIES

WEEKS CT MINI-OVOID APPLICATOR SET



The Weeks CT Applicator Afterloading Set (with CT Mini-Ovoid, Stainless Steel Pivot, and Shielded Gold Buckets), was designed for the patient with narrow vault anatomy that will not accommodate the round ovoid of the standard Fletcher Suit Applicator. The ovoid is flattened medially. The handle is 19 cm long to the ovoid center. The ovoids, made of high temperature plastic, are 13 mm in width and 30 mm high and have a 15° angle. The handle is made of stainless steel for durability with light weight titanium knob and caps. The applicator's shielded gold bucket carriers accommodate Cesium 137 (Cs-137) sources up to 3 mm diameter x 20 mm long for LDR Brachytherapy treatments. Two CT Dummy Bucket Carriers with markers indicating radiation source location are also provided. Included with the set are 2 cm, 2.5 cm, and 3 cm ovoid caps made of high temperature plastic. The set also includes four 8 mm diameter coated aluminum tandems with curvatures of 15°, 30°, 45°, and 60° with caps made of high temperature plastic. The tandems are marked every 2 cm over a 12 cm range from the tip. Also included are two flagged cervical stops made of high temperature plastic.

Specifications

High temperature plastic density: 1.28 g/cm³

Gold density: 19.3 g/cm³

Sterilization

Autoclavable

Clean using detergent

Item 970-360 Weeks CT Mini-Ovoid Set Includes

- (1) Applicator with Stainless Steel Pivot
- (2) Shielded Gold Bucket Carriers
- (2) CT Bucket Carriers for Left or Right Side
- (2) 2.0 cm Diameter High Temperature Plastic (HTP) Ovoid Caps
- (2) 2.5 cm Diameter High Temperature Plastic (HTP) Ovoid Caps
- (2) 3.0 cm Diameter High Temperature Plastic (HTP) Ovoid Caps
- (4) Coated Aluminum Tandems and Caps (15°, 30°, 45°, and 60°)
- (2) Flagged Cervical Stops, High Temperature Plastic
- (1) 3/32" Allen Wrench
- (4) Plastic Tandems and Pushers for Sources
- (1) Sterilization Tray

Item	Description
970-360	Weeks CT Mini-Ovoid Pivot S.S. Applicator Set w/Tray
970-360-001	Weeks CT Mini-Ovoid Pivot S.S. Applicator (Set Only)
970-360-002	Weeks CT Mini-Ovoid Pivot S.S. Applicator ONLY

Replacement parts for Weeks CT Applicator Item 970-360

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
970-360-10	Bucket Carrier, Right, Shielded Gold
970-360-11	Bucket Carrier, Left, Shielded Gold
970-360-25	CT Bucket Carrier (Right or Left Side)
970-360-30	Cap, Titanium, for Ovoid Handle
970-360-32	Knob, Locking, Titanium
970-360-50	2.0cm Right Ovoid HTP Cap, No Tungsten
970-360-51	2.0cm Left Ovoid HTP Cap, No Tungsten
970-360-52	2.5cm Right Ovoid HTP Cap, No Tungsten

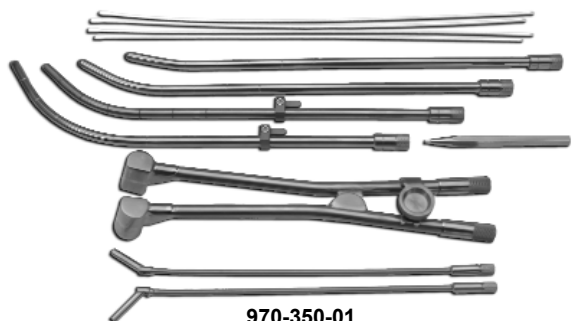
Item	Description
970-360-53	2.5cm Left Ovoid HTP Cap, No Tungsten
970-360-54	3.0cm Right Ovoid HTP Cap, No Tungsten
970-360-55	3.0cm Left Ovoid HTP Cap, No Tungsten
970-371	#1 - 15°, 8mm Dia. Tandem, Coated Alum. w/ Cap
970-372	#2 - 30°, 8mm Dia. Tandem, Coated Alum. w/ Cap
970-373	#3 - 45°, 8mm Dia. Tandem, Coated Alum. w/ Cap
970-374	#4 - 60°, 8mm Dia. Tandem, Coated Alum. w/ Cap
970-375	Flagged Cervical Stop, High Temperature Plastic
970-3752	Screw Aluminum Cervical Stop #4-40 x 5/16"
970-377	Cap for Tandem, High Temperature Plastic
970-379	Dummy Source for CT, Teflon
970-645-06	Sterilization Tray

GYN APPLICATORS & ACCESSORIES

TITANIUM MINI-OVOID LONG HANDLE AFTERLOADING APPLICATOR SET WITH TITANIUM PIVOT



970-350



970-350-01



Optional
970-650-40 to 970-650-45



Optional
970-229

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:

Clean using detergent
Autoclavable

Item 970-350 Titanium Mini-Ovoid Long Handle Afterloading Applicator Set with Titanium Pivot includes:

- (1) Applicator with titanium pivot and two bucket carriers
- (4) Titanium tandems and caps -15°, 30°, 45° and 60°
- (2) Titanium flagged cervical stops
- (1) 3/32" Allen wrench
- (4) Plastic tandems and pushers
- (1) Sterilization tray

Item 970-350-01 is the same as Item 970-350 without the sterilization tray.

Item 970-350-02 is the applicator with titanium pivot and two bucket carriers.

Item #	Description
970-350	Mini-Ovoid Applicator Set with Sterilization Tray
970-350-01	Mini-Ovoid Applicator Set without Sterilization Tray
970-350-02	Mini-Ovoid Applicator with (2) Bucket Carriers

Replacement parts for the Titanium Mini-Ovoid with Pivot Applicator Item 970-350, 970-350-01 and 970-350-02

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-300	Optional Straight Standard Titanium Tandem w/Cap
970-301	#1 - 15° Standard Titanium Tandem w/Cap
970-302	#2 - 30° Standard Titanium Tandem w/Cap
970-303	#3 - 45° Standard Titanium Tandem w/Cap
970-304	#4 - 60° Standard Titanium Tandem w/Cap
970-312	Cap for Tandem - Titanium
970-317	Flagged Cervical Stop - Titanium
970-318	Screw for Flagged Cervical Stop #4-40 x 5/16" - Titanium
970-220	3/32" Allen Wrench
970-670-59	Optional - 3/32" Large Handle Allen Wrench

Item #	Description
970-353-12	Cap for Ovoid Handle - Titanium
970-350-18	Optional Tandem Support Hook Assembly - Titanium
970-353-70	Right/Left Bucket Carrier - Stainless Steel
970-353-60	Optional Right/Left CT Bucket Carrier - Titanium/Delrin
970-350-50	Knob #6-32 - Titanium
970-645-06	Sterilization Tray
970-650-40	Optional 2.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-41	Optional 2.0 cm Left Ovoid HTP Cap w/Tungsten
970-650-42	Optional 2.5 cm Right Ovoid HTP Cap w/Tungsten
970-650-43	Optional 2.5 cm Left Ovoid HTP Cap w/Tungsten
970-650-44	Optional 3.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-45	Optional 3.0 cm Left Ovoid HTP Cap w/Tungsten
970-229	Optional Tandem Support Bracket S.S. w/1 1/16" Wrench

GYN APPLICATORS & ACCESSORIES

COMBINATION FLETCHER-SUIT DELCLOS SHIELDED AND MINI-OVOID AFTERLOADING APPLICATOR SET 3M Applicator Replacement



970-642



Optional
970-229



Optional
970-650-40 to 970-650-45

Item 970-642 The Combination FSD Shielded Afterloading Applicator includes:

- (1) 970-641 FSD Shielded Round Handle Afterloading Applicator Set
- (1) S.S. Applicator with S.S. pivot and two bucket carriers
- (2) Each of the 2.5 and 3.0 cm diameter nylon ovoid caps
- (4) Stainless Steel Tandems and caps- 15°, 30°, 45° and 60°
- (1) S.S. Cervical stop
- (2) S.S. Flagged cervical stops
- (1) S.S. Allen wrench
- (4) Plastic tandems and pushers
- (1) Sterilization tray
- (1) 970-650-02 Delclos Mini-Ovoid Applicator with 2 bucket carriers

The FSD Shielded Round Handle S.S. Afterloading Applicator uses bucket carriers. The stainless steel ovoids are 20 mm in diameter x 30 mm high. They have an angle of 15° and immovable tungsten shielding for bladder and rectal protection. The applicator bucket carriers accommodate either Cesium 137 or Radium 226 sources up to 3.4 mm diameter x 23 mm long. Dummy sources are available (Item 985-000 to 985-031).

The Delclos Mini-Ovoid 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 S.S. ovoid is flattened medially to accommodate a very small anatomy. The flattened area results in an increased dose to the cervix. The ovoids are 12 mm in diameter x 29 mm high, have a 15° angle and **do not have shielding**. Tungsten shielded High Temperature Plastic (HTP) ovoid caps are optional.

Item #	Description
970-642	Combination FSD Shielded & Mini-Ovoid Afterloading S.S. Applicators

Replacement parts for the Combination FSD Shielded Round Handle and Mini-Ovoid Afterloading Applicator Set (Item 970-642)

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem/Cap
970-204	#4 - 60° Standard S.S. Tandem/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-220	S.S. 3/32" Allen Wrench
970-670-59	Optional - 3/32" Large Handle S.S. Allen Wrench
970-229	Optional - S.S. Tandem Support Bracket w/1/16" Wrench

Item #	Description
970-641-02	FSD Shielded Round Handle Applicator w/S.S. Pivot
970-641-12	Cap for Ovoid Handle
970-641-2	2.5 cm Nylon Ovoid Cap (each)
970-641-3	3.0 cm Nylon Ovoid Cap (each)
970-641-40	Right Bucket Carrier
970-641-42	Left Bucket Carrier
970-645-06	Sterilization Tray
970-645-15	Locking Knob #6-32
970-650-02	Delclos Mini Ovoid Applicator w/S.S. Pivot
970-650-40	Optional - 2.0cm Right Ovoid HTP Cap w/Tungsten
970-650-41	Optional - 2.0 cm Left Ovoid HTP Cap w/Tungsten
970-650-42	Optional - 2.5 cm Right Ovoid HTP Cap w/Tungsten
970-650-43	Optional - 2.5 cm Left Ovoid HTP Cap w/Tungsten
970-650-44	Optional - 3.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-45	Optional - 3.0 cm Left Ovoid HTP Cap w/Tungsten
970-101	DVD on Fletcher Colpostat Technique

GYN APPLICATORS & ACCESSORIES

FLETCHER-SUIT DELCLOS SHIELDED ROUND OVOID STAINLESS STEEL APPLICATOR



- **Lightweight**
- **Easy Source Loading Procedure**
- **Unbreakable Joints**

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/cm³) shields were replaced with high density 19.3 g/cm³ 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).

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

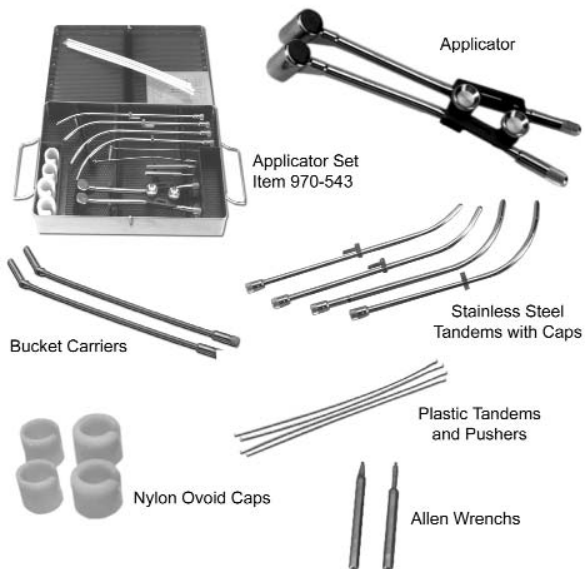
Item	Description
970-541	F.S.D. Shielded Round Ovoid, Stainless Steel Pivot Applicator Set with Sterilization Tray
970-541-1	F.S.D. Shielded Round Ovoid, Stainless Steel Pivot Applicator Set, No Sterilization Tray
970-541-2	F.S.D. Shielded Round Ovoid, Stainless Steel Pivot Applicator with Caps ONLY

Item	Optional Items
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	Straight Standard S.S. Tandem with Cap
970-229	S.S. Tandem Support Bracket with 1/16" Allen Wrench
985-030	Tungsten Dummy Source, 3.0 mm Dia. x 20 mm L

Item	Replacement Parts
970-000	Afterloading Plastic TANDEMS & PUSHERS (12/pkg)
970-010	Afterloading Plastic TANDEMS ONLY
970-020	Afterloading Plastic PUSHERS ONLY
970-201	#1 Tandem-15° Standard S.S with Cap (970-212)
970-202	#2 Tandem-30° Standard S.S with Cap (970-212)
970-203	#3 Tandem-45° Standard S.S. with Cap (970-212)
970-204	#4 Tandem-60° Standard S.S. with Cap (970-212)
970-212	Cap for Tandems (3M), Stainless Steel
970-216	Cervical Stop, Stainless Steel
970-217	Flagged Cervical Stop, Stainless Steel
970-218	Screw, S.S., f/Cervical Stop #4-40x5/16" Socket Head
970-220	3/32" Allen Wrench, Stainless Steel
970-360-30	Cap, Titanium, for Ovoid Handle
970-360-32	Locking Knob, Titanium
970-541-40	Bucket Carrier Right, Stainless Steel
970-541-42	Bucket Carrier Left, 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

GYN APPLICATORS & ACCESSORIES

FLETCHER-SUIT DELCLOS SHIELDED ROUND OVOID LONG HANDLE APPLICATOR



- **Lightweight**
- **Easy Source Loading Procedure**
- **Unbreakable Joints**

FSD Shielded Round Ovoid Long Handle Applicator with Bracket 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/cm³) shields were replaced with high density 19.3 g/cm³ tungsten. The handle is 19 cm long to the ovoid center. The ovoids 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 applicator uses a two piece adjustable handle pivot bracket with a tandem support hook. The applicator is completely Heli-Arc welded at all joints 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 Tungsten Dummy Sources (Item 985-030) and Cesium 137 Tube Sources (Items 067-6510 to 067-6540).

Item 970-543 Includes

- (1) Applicator with Bracket 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
- (1) 1/16" Allen Wrench
- (4) Plastic Tandems and Pushers for Sources
- (1) Sterilization Tray

Item 970-543-1 Includes

- (1) Applicator with Bracket 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
- (1) 1/16" Allen Wrench
- (4) Plastic Tandems and Pushers for Sources

Item 970-543-2 Includes

- (1) Applicator with Bracket Pivot and Two Bucket Carriers
- (2) 2.5 cm Diameter Nylon Ovoid Cap
- (2) 3.0 cm Diameter Nylon Ovoid Cap
- (1) 1/16" Allen Wrench

Item	Description
970-543	F.S.D. Shielded Round Ovoid, Bracket Pivot Applicator Set with Sterilization Tray
970-543-1	F.S.D. Shielded Round Ovoid, Bracket Pivot Applicator Set, No Sterilization Tray
970-543-2	F.S.D. Shielded Round Ovoid, Bracket Pivot Applicator with Caps and 1/16" Allen Wrench ONLY

Item	Replacement Parts
970-000	Afterloading Plastic TANDEMS & PUSHERS (12/pkg)
970-010	Afterloading Plastic TANDEMS ONLY
970-020	Afterloading Plastic PUSHERS ONLY
970-201	#1 Tandem-15° Standard S.S with Cap (970-212)
970-202	#2 Tandem-30° Standard S.S with Cap (970-212)
970-203	#3 Tandem-45° Standard S.S. with Cap (970-212)
970-204	#4 Tandem-60° Standard S.S. with Cap (970-212)
970-212	Cap for Tandems (3M), Stainless Steel
970-216	Cervical Stop, Stainless Steel
970-217	Flagged Cervical Stop, Stainless Steel
970-218	Screw, S.S., f/Cervical Stop #4-40x5/16" Socket Head
970-220	3/32" Allen Wrench, Stainless Steel
970-643-22	Handle Bracket Set, Complete with Knobs and Wrench
970-360-30	Titanium Cap for Ovoid Handle
970-541-40	Bucket Carrier Right, Stainless Steel
970-541-42	Bucket Carrier Left, 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

Item	Optional Items
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	Straight Standard S.S. Tandem with Cap
985-030	Tungsten Dummy Source, 3.0 mm Dia. x 20 mm L

GYN APPLICATORS & ACCESSORIES

FLETCHER-SUIT DELCLOS SHIELDED ROUND LONG HANDLE AFTERLOADING APPLICATOR SET With Tandem Support

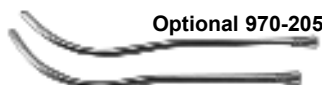
Replacement for Rectangular Handle Fletcher-Suit Applicator



970-643



970-643-01



Optional 970-205

Optional 970-206

The FSD Shielded Round Long Handle S.S. Afterloading Applicator employs the same features as the Rectangular Handle Fletcher-Suit S.S. Afterloading Applicator but is less bulky, lighter, and has an easier loading procedure of the source. The S.S. applicator handle measures 19 cm long to the ovoid. The stainless steel ovoids are 20 mm diameter x 30 mm high and have an angle of 15°. They have immovable tungsten shielding for bladder and rectal protection. The applicator uses a two piece S.S. adjustable handle pivot bracket with a tandem support hook. The applicator S.S. bucket carriers accommodate either Cesium 137 or Radium 226 sources up to 3.4 mm diameter x 23 mm long. Dummy sources are available (Item 985-000 to 985-031). The S.S. tandems are marked every 2 cm over an 8 cm range.

Item 970-643 FSD Shielded Round Long Handle Afterloading Applicator Set with Tandem Support includes:

- (1) S.S. Applicator with adjustable handle bracket with a tandem support hook and two S.S. bucket carriers
- (2) Each of the 2.5 and 3.0 cm diameter nylon ovoid caps
- (4) Stainless steel tandems and caps - 15°, 30°, 45° and 60°
- (1) S.S. Cervical stop
- (2) S.S. Flagged cervical stops
- (2) S.S. Allen wrenches
- (4) Plastic tandems and pushers
- (1) Sterilization tray

Item 970-643-01 is the same as Item 970-643 without the sterilization tray.

Item 970-643-02 is the applicator with handle bracket and tandem support hook, two bucket carriers, and a wrench.

Item #	Description
970-643	FSD Long Handle S.S. Applicator Set with Sterilization Tray
970-643-01	FSD Long Handle S.S. Applicator Set w/out Sterilization Tray
970-643-02	FSD Long Handle S.S. Applicator with Bucket Carriers

Replacement parts for the FSD Shielded Round Long Handle Applicator with Tandem Support Item 970-643, 970-643-01 and 970-643-02

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-205	#3 - 45° Double Curved S.S. Tandem for Bracket w/Cap
970-206	#4 - 60° Double Curved S.S. Tandem for Bracket w/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-220	3/32" S.S. Allen Wrench
970-670-59	Optional - 3/32" Large Handle S.S. Allen Wrench

Item #	Description
970-229-6	1/16" S.S. Allen Wrench
970-641-12	S.S. Cap for Ovoid Handle
970-641-2	2.5 cm Nylon Ovoid Cap
970-641-3	3.0 cm Nylon Ovoid Cap
970-643-18	S.S. Tandem Support Hook
970-643-19	S.S. Tandem Support Hook - Extra Long 5 mm
970-643-20	S.S. Upper Left Handle Bracket
970-643-21	S.S. Lower Right Handle Bracket
970-643-22	S.S. Handle Bracket Set
970-643-23	Nylon Pivot for Bracket
970-643-40	Right S.S. Bucket Carrier (Long Handle)
970-643-42	Left S.S. Bucket Carrier (Long Handle)
970-643-50	S.S. Knob w/Holes #10-32
970-643-51	S.S. "U" Knob #10-32
970-643-52	S.S. "U" Knob #10-32 - Extra Long 5 mm
970-645-06	Sterilization Tray

GYN APPLICATORS & ACCESSORIES

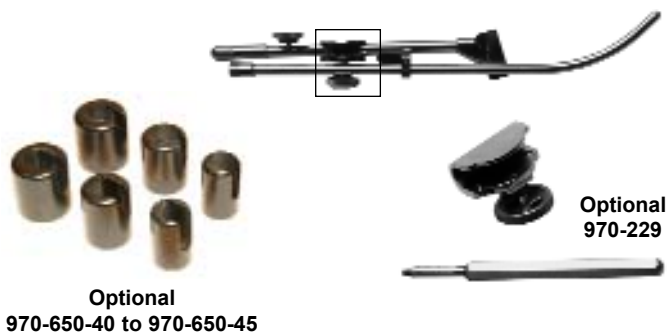
DELCLOS MINI-OVOID PIVOT AFTERLOADING APPLICATOR SET



970-650



970-650-01



Optional
970-650-40 to 970-650-45

Optional
970-229

The Delclos Stainless Steel Mini-Ovoid Pivot Afterloading Applicator Set 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 stainless steel ovoid is flattened medially to accommodate a very small anatomy. The flattened area results in an increased dose to the cervix. The handle is 16.5 cm long to the ovoid. The stainless steel ovoids are 12 mm in width, 29 mm high, have a 15° angle and **do not have shielding**. The applicator stainless steel bucket carriers accommodate Cesium 137 sources or Radium 226 sources up to 3.4 mm diameter x 23 mm long. Dummy sources are available (Item 985-000 to Item 985-031). Tungsten shielded High Temperature Plastic (HTP) ovoid caps are optional. The stainless steel tandems are marked every 2 cm over and 8 cm range.

Item 970-650 Delclos Mini-Ovoid Pivot Afterloading Applicator Set includes:

- (1) Stainless Steel Applicator with stainless steel pivot and two S.S. bucket carriers
- (4) Stainless steel tandems and caps -15°, 30°, 45° and 60°
- (1) Stainless Steel Cervical stop
- (2) Stainless Steel Flagged cervical stops
- (1) Stainless Steel Allen wrench
- (4) Plastic tandems and pushers
- (1) Sterilization tray

Item 970-650-01 is the same as Item 970-650 without the sterilization tray.

Item 970-650-02 is the applicator with stainless steel pivot and two bucket carriers.

Item #	Description
970-650	Mini-Ovoid S.S. Applicator Set with Sterilization Tray
970-650-01	Mini-Ovoid S.S. Applicator Set without Sterilization Tray
970-650-02	Mini-Ovoid S.S. Applicator with S.S. Bucket Carriers

Replacement parts for the Delclos Mini-Ovoid Pivot Applicator Item 970-650, 970-650-01 and 970-650-02

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	S.S. Flagged Cervical Stop
970-218	Screw Cervical Stop #4-40 x 5/16"
970-220	3/32" S.S. Allen Wrench

Item #	Description
970-670-59	Optional - 3/32" Large Handle S.S. Allen Wrench
970-229	Optional - S.S. Tandem Support Bracket w/1/16" Wrench
970-641-12	S.S. Cap for Ovoid Handle
970-641-40	Right Stainless Steel Bucket Carrier
970-641-42	Left Stainless Steel Bucket Carrier
970-645-06	Sterilization Tray
970-645-15	Stainless Steel Locking Knob #6-32
970-650-40	Optional - 2.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-41	Optional - 2.0 cm Left Ovoid HTP Cap w/Tungsten
970-650-42	Optional - 2.5 cm Right Ovoid HTP Cap w/Tungsten
970-650-43	Optional - 2.5 cm Left Ovoid HTP Cap w/Tungsten
970-650-44	Optional - 3.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-45	Optional - 3.0 cm Left Ovoid HTP Cap w/Tungsten
970-101	DVD on Fletcher Colpostat Technique

GYN APPLICATORS & ACCESSORIES

DELCLOS MINI-OVOID LONG HANDLE AFTERLOADING APPLICATOR SET

With Tandem Support



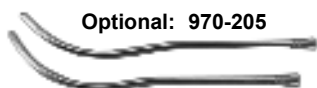
970-653



970-653-01



Optional
970-650-40 to 970-650-45



Optional: 970-205

Optional: 970-206

The Delclos Mini-Ovoid Long Handle stainless steel Afterloading Applicator 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 stainless steel ovoid is flattened medially to accommodate a very small anatomy. The flattened area results in an increased dose to the cervix. The stainless steel handle is 19 cm long to the ovoid. The stainless steel ovoids are 12 mm in width x 29 mm high, have an angle of 15° and **do not have shielding**. The applicator uses a two piece adjustable stainless steel handle pivot bracket with a stainless steel tandem support hook. The applicator stainless steel bucket carriers accommodate Cesium 137 sources or Radium 226 sources up to 3.4 mm diameter x 23 mm long. Dummy sources are available (Item 985-000 through Item 985-031). Tungsten shielded High Temperature Plastic (HTP) ovoid caps are optional. The stainless steel tandems are marked every 2 cm over an 8 cm range.

Item 970-653 Delclos Mini-Ovoid Long Handle Applicator Set with Tandem Support includes:

- (1) Stainless Steel Applicator with adjustable S.S. handle bracket with a Stainless Steel tandem support hook and two S.S. bucket carriers
- (4) Stainless Steel tandems and caps - 15°, 30°, 45° and 60°
- (1) Stainless Steel Cervical stop
- (2) Stainless Steel Flagged cervical stops
- (2) Stainless Steel Allen wrenches
- (4) Plastic tandems and pushers
- (1) Sterilization tray

Item 970-653-01 is the same as Item 970-653 without the sterilization tray.

Item 970-653-02 is the applicator with handle bracket and tandem support hook, two bucket carriers, and a wrench.

Item #	Description
970-653	Mini-Ovoid Long Handle S.S. Applicator Set with Sterilization Tray
970-653-01	Mini-Ovoid Long Handle S.S. Applicator Set, without Sterilization Tray
970-653-02	Mini-Ovoid Long Handle S.S. Applicator with S.S. Bucket Carriers

Replacement parts for the Delclos Mini-Ovoid Long Handle Applicator With Tandem Support Item 970-653, 970-653-01 and 970-653-02

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-205	#3 - 45° Double Curved S.S. Tandem for Bracket w/Cap
970-206	#4 - 60° Double Curved S.S. Tandem for Bracket w/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-220	S.S. 3/32" Allen Wrench
970-670-59	Optional - 3/32" Large Handle S.S. Allen Wrench
970-229-6	S.S. 1/16" Allen Wrench

Item #	Description
970-641-12	S.S. Cap for Ovoid Handle
970-643-18	S.S. Tandem Support Hook
970-643-20	Upper Left Handle S.S. Bracket
970-643-21	Lower Right Handle S.S. Bracket
970-643-22	S.S. Handle Bracket Set
970-643-23	Nylon Pivot for Bracket
970-643-40	Right S.S. Bucket Carrier (Long Handle)
970-643-42	Left S.S. Bucket Carrier (Long Handle)
970-643-50	S.S. Knob w/Holes #10-32
970-643-51	S.S. "U" Knob #10-32
970-645-06	Sterilization Tray
970-650-40	Optional - 2.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-41	Optional - 2.0 cm Left Ovoid HTP Cap w/Tungsten
970-650-42	Optional - 2.5 cm Right Ovoid HTP Cap w/Tungsten
970-650-43	Optional - 2.5 cm Left Ovoid HTP Cap w/Tungsten
970-650-44	Optional - 3.0 cm Right Ovoid HTP Cap w/Tungsten
970-650-45	Optional - 3.0 cm Left Ovoid HTP Cap w/Tungsten
970-101	DVD on Fletcher Colpostat Technique

GYN APPLICATORS & ACCESSORIES

MODIFIED HENSCHKE CERVICAL APPLICATOR SET



The Modified Henschke Cervix Applicator can be afterloaded with standard Cs-137 tube sources. The tandem can be affixed longitudinally but packing may be required to maintain the tandem's position between the ovoids. The applicator may conform to anatomically asymmetrical conditions. The 2cm diameter ovoids are provided with anterior and posterior removable tungsten shields. Tandems are provided straight, medium and maximum curved.

The Modified Henschke Cervix Applicator Set includes the following:

- (2) Colpostats - Left and Right
- (2) Colpostat End Caps
- (2) Source Carriers for Colpostats
- (1) Spacing Bracket
- (2) Shielded Ovoids & Caps Set
- (3) Tandems: straight, medium curved and maximum curved
- (3) Tandem End Caps
- (1) Source Carrier for Tandem
- (1) Cervical Stop
- (4) Ovoid Caps: 2.5 cm set and 3.0 cm set
- (1) Stainless Steel Allenwrench
- (1) Stainless Steel Ruler - 15 cm
- (1) Kelly Hemostat - 10" (grooved)
- (1) Stainless Steel Sterilization Tray
- (1) Carrying Case

The Modified Henschke Applicator and accessories can be AUTOCLAVED.

Item #	Description
970-448	Modified Henschke Cervical Applicator Set

VIDEO ON FLETCHER COLPOSTAT TECHNIQUE



Item #	Description
970-100	Video on Fletcher Colpostat Technique
970-101	DVD on Fletcher Colpostat Technique

GYN APPLICATORS & ACCESSORIES

DELCLOS UTERINE/VAGINAL AFTERLOADING APPLICATOR SET

With Type "B" Dome Assembly.

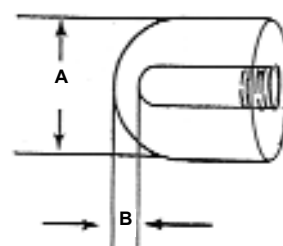


970-670-01

The Delclos Uterine/Vaginal Type "B" Applicator was originally manufactured by Radium Chemical then Radium Accessories. **The dimension from the source to tip of the dome for all dome cylinders is the same (Dimension B).**

The Delclos Uterine/Vaginal Afterloading Applicator and Dome Assembly is used primarily to irradiate the vagina where the tumor extends downward from the cervix along the vaginal wall. The acrylic vaginal cylinders are 2.5 cm long permitting a maximum assembled length of 15 cm and come in diameters from 2.0 cm to 4.5 cm to accommodate different vaginal sizes. The cylinders have four stainless steel pins .1" from edge to identify the location radiographically and have an inside groove to facilitate removal with the cylinder extractor. The 15°, 30° and 45° S.S. tandems are marked every 2 cm over an 8 cm range. The dome cylinders are threaded to accommodate a 15 cm long threaded tandem.

Type "B" Threaded Dome



Dimension

	A	B
	2.0 cm	0.1 cm
	2.5 cm	0.1 cm
	3.0 cm	0.1 cm
	3.5 cm	0.1 cm
	4.0 cm	0.1 cm
	4.5 cm	0.1 cm

Item 970-670-01 includes:

- (3) S.S. Tandems with caps - 15°, 30°, 45°
- (3) S.S. Cervical stops
- (1) 15 cm Threaded S.S. Tandem with Cap for Dome
- (2) S.S. Flagged Cylinder Stop
- (1) S.S. Flat End Vaginal Tandem with Cap
- (4) Plastic Tandems and Pushers
- (2) 3/32" S.S. Allen Wrenches (short and long handle)
- (1) S.S. Cylinder Extractor
- (6) Threaded Acrylic Domes - 2.0, 2.5, 3.0, 3.5, 4.0, 4.5 cm
- (5) Cylinders for Flat End Tandem - 2.5, 3.0, 3.5, 4.0, 4.5 cm
- (5) 2.0 cm Acrylic Cylinders
- (4) Acrylic Cylinders of each - 2.5, 3.0, 3.5, 4.0, 4.5 cm
- (1) Sterilization Tray

Item 970-670-02 does not include the 3 Tandems and Cervical Stops, 1 Short Handle Allen Wrench and Sterilization Tray.

Item #	Description
970-670-01	Type "B" Applicator Set with Sterilization Tray
970-670-02	Type "B" Applicator Without 3 Tandems, 3 Cervical Stops, 1 Wrench & Sterilization Tray

Replacement parts for Delclos Uterine/Vaginal Afterloading Applicator With Type "B" Dome Assembly Item 970-670-01 and 970-670-02

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	Optional: S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-670-06	Sterilization Tray
970-670-18	15 cm Threaded S.S. Tandem for Dome
970-670-19	2.0 cm Acrylic Dome w/Thread
970-670-21	2.0 cm Acrylic Cylinder
970-670-23	15 cm Vaginal S.S. Tandem w/Flat End
970-670-24	2.5 cm Acrylic Dome w/Thread
970-670-26	2.5 cm Acrylic Cylinder
970-670-27	2.5 cm Acrylic Cylinder for Flat End Tandem

Item #	Description
970-670-29	3.0 cm Acrylic Dome w/Thread
970-670-31	3.0 cm Acrylic Cylinder
970-670-32	3.0 cm Acrylic Cylinder for Flat End Tandem
970-670-34	3.5 cm Acrylic Dome w/Thread
970-670-36	3.5 cm Acrylic Cylinder
970-670-37	3.5 cm Acrylic Cylinder for Flat End Tandem
970-670-39	4.0 cm Acrylic Dome w/Thread
970-670-41	4.0 cm Acrylic Cylinder
970-670-42	4.0 cm Acrylic Cylinder for Flat End Tandem
970-670-44	4.5 cm Acrylic Dome w/Thread
970-670-46	4.5 cm Acrylic Cylinder
970-670-47	4.5 cm Acrylic Cylinder for Flat End Tandem
970-670-49	S.S. Cylinder Extractor
970-670-52	S.S. Cylinder Stop w/Flag
970-670-54	Optional: S.S. Cylinder Stop
970-670-56	Tapered S.S. Allen Screw 4-40 x 1/4"
970-670-59	3/32" Long Handle S.S. Allen Wrench
970-670-60	3/32" Short Handle S.S. Allen Wrench

GYN APPLICATORS & ACCESSORIES

DELCLOS UTERINE/VAGINAL AFTERLOADING APPLICATOR SET

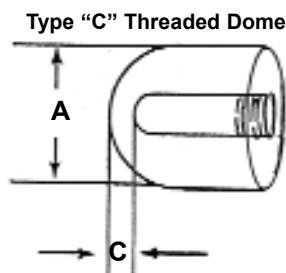
With Type "C" Dome Assembly



970-670-03

The Delclos Uterine/Vaginal Type "C" Applicator was originally manufactured by 3M. **The dimension from the source to tip of dome varies for the cylinders (Dimension C).**

The Delclos Uterine/Vaginal Afterloading Applicator and Dome Assembly is used primarily to irradiate the vagina where the tumor extends downward from the cervix along the vaginal wall. The acrylic vaginal cylinders are 2.5 cm long permitting a maximum assembled length of 15 cm and come in diameters from 2.0 cm to 4.5 cm to accommodate different vaginal sizes. The cylinders have four stainless steel pins .1" from edge to identify the location radiographically and have an inside groove to facilitate removal with the cylinder extractor. The 15°, 30° and 45° S.S. tandems are marked every 2 cm over an 8 cm range. The acrylic dome cylinders are threaded to accommodate a 15 cm long threaded S.S. tandem.



Dimensions

A	C
2.0 cm	0.5 cm
2.5 cm	0.8 cm
3.0 cm	1.0 cm
3.5 cm	1.0 cm
4.0 cm	1.0 cm
4.5 cm	1.3 cm

Item 970-670-03 includes:

- (3) S.S. Tandems with caps - 15°, 30°, 45°
- (3) S.S. Cervical Stops
- (1) 15 cm Threaded S.S. Tandem with Cap for Dome
- (2) S.S. Flagged Cervical Stop
- (1) Flat End Vaginal S.S. Tandem with Cap
- (4) Plastic Tandems and Pushers
- (2) 3/32" S.S. Allen Wrenches (short and long handle)
- (1) S.S. Cylinder Extractor
- (6) Threaded Acrylic Domes - 2.0, 2.5, 3.0, 3.5, 4.0, 4.5 cm
- (5) Acrylic Cylinders for Flat End Tandem- 2.5, 3.0, 3.5, 4.0, 4.5 cm
- (5) 2.0 cm Acrylic Cylinders
- (4) Acrylic Cylinders of each - 2.5, 3.0, 3.5, 4.0, 4.5 cm
- (1) Sterilization Tray

Item 970-670-04 does not include the 3 Tandems and Cervical Stops, 1 Short Handle Allen Wrench and Sterilization Tray.

Item #	Description
970-670-03	Type "C" Applicator Set with Sterilization Tray
970-670-04	Type "C" Applicator Without 3 Tandems, 3 Cervical Stops, 1 Wrench & Sterilization Tray

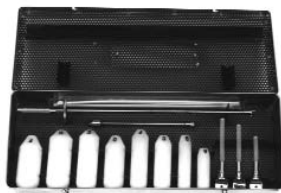
Replacement parts for the Delclos Uterine/Vaginal Afterloading Applicator With Type "C" Dome Assembly Item 970-670-03 and 970-670-04

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-200	Straight Standard S.S. Tandem w/Cap
970-201	#1 - 15° Standard S.S. Tandem w/Cap
970-202	#2 - 30° Standard S.S. Tandem w/Cap
970-203	#3 - 45° Standard S.S. Tandem w/Cap
970-204	#4 - 60° Standard S.S. Tandem w/Cap
970-212	S.S. Cap for Tandem
970-216	S.S. Cervical Stop
970-217	Optional: S.S. Flagged Cervical Stop
970-218	S.S. Screw Cervical Stop #4-40 x 5/16"
970-670-06	Sterilization Tray
970-670-18	15 cm Threaded S.S. Tandem for Dome
970-670-20	2.0 cm Acrylic Dome w/Thread
970-670-21	2.0 cm Acrylic Cylinder
970-670-23	15 cm Vaginal S.S. Tandem w/Flat End
970-670-25	2.5 cm Acrylic Dome w/Thread
970-670-26	2.5 cm Acrylic Cylinder
970-670-27	2.5 cm Acrylic Cylinder for Flat End Tandem

Item #	Description
970-670-30	3.0 cm Acrylic Dome w/Thread
970-670-31	3.0 cm Acrylic Cylinder
970-670-32	3.0 cm Acrylic Cylinder for Flat End Tandem
970-670-35	3.5 cm Acrylic Dome w/Thread
970-670-36	3.5 cm Acrylic Cylinder
970-670-37	3.5 cm Acrylic Cylinder for Flat End Tandem
970-670-40	4.0 cm Acrylic Dome w/Thread
970-670-41	4.0 cm Acrylic Cylinder
970-670-42	4.0 cm Acrylic Cylinder for Flat End Tandem
970-670-45	4.5 cm Acrylic Dome w/Thread
970-670-46	4.5 cm Acrylic Cylinder
970-670-47	4.5 cm Acrylic Cylinder for Flat End Tandem
970-670-49	S.S. Cylinder Extractor
970-670-52	S.S. Cylinder Stop w/Flag
970-670-54	Optional: S.S. Cylinder Stop
970-670-56	S.S. Tapered Allen Screw 4-40 x 1/4"
970-670-59	3/32" Long Handle S.S. Allen Wrench
970-670-60	3/32" Short Handle S.S. Allen Wrench

GYN APPLICATORS & ACCESSORIES

BURNETT AFTERLOADING VAGINAL APPLICATOR SET



970-700



970-700-02



The Burnett Afterloading Applicator is effective in reducing vaginal recurrence when used post-hysterectomy for cancer of the endometrium. Eight combinations of length and diameter are available.

Item 970-700 Burnett Afterloading Vaginal Applicator Set includes:

- (8) Nylon cylinders
- (1) Cylinder afterloading tandem
- (1) Loading handle
- (3) Screw caps with 5.7, 7.6, 8.4 cm source carriers
- (4) Four plastic tandems and pushers
- (1) Sterilization tray

Item 970-700-02 Burnett Afterloading Vaginal Applicator includes:

- (8) Nylon cylinders
- (1) Cylinder afterloading tandem
- (4) Plastic tandems and pushers
- (1) Sterilization tray

Specifications

Material: Nylon
Density: 1.14 -1.15 g/cm³

Item #	Description
970-700	Burnett Applicator Set
970-700-02	Burnett Applicator

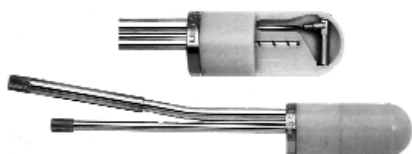
Replacement parts for the Burnett Afterloading Vaginal Applicator Item 970-700, and 970-700-02

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
970-212	S.S. Cap for Tandem
970-700-06	Sterilization Tray
970-700-11	"A" 20 x 66 mm Nylon Cylinder
970-700-12	"B" 20 x 87 mm Nylon Cylinder
970-700-13	"C" 25 x 87 mm Nylon Cylinder
970-700-14	"D" 30 x 87 mm Nylon Cylinder
970-700-15	"E" 35 x 87 mm Nylon Cylinder

Item #	Description
970-700-16	"F" 25 x 95 mm Nylon Cylinder
970-700-17	"G" 30 x 95 mm Nylon Cylinder
970-700-18	"H" 35 x 95 mm Nylon Cylinder
970-700-20	S.S. Screw Cap for Source Carrier
970-700-22	S.S. Loading Handle for Screw Cap w/Carrier
970-700-25	5.7 cm Long Source Carrier
970-700-27	7.6 cm Long Source Carrier
970-700-28	8.4 cm Long Source Carrier
970-700-30	S.S. 6" Afterloading Tandem with Cap for Cylinders

WANG FRONT-LOADING VAGINAL APPLICATOR

¹³⁷Cs Source in "T" Configuration



Designed for 3M Type Cesium-137 Sources

The Wang-Front Loading Applicator is an intracavitary afterloading device utilizing three Cesium-137 sources in a "T" configuration. The three 3M Cesium-137 (Cs-137) tube sources each have a diameter of 3.1 mm and length of 20.0 mm. The sources are arranged in a "T" configuration, with two tandem sources oriented along the longitudinal axis of the cylinder and one apex source perpendicular to them.

This source geometry provides a homogenous dose distribution over the apex and lateral walls of the applicator. Computer point dose calculations, generated by a traditional brachytherapy program and Monte Carlo program, agreed within standard errors of measurements obtained by TLD in a plastic phantom.

The vaginal cylinder is 30.0 mm in diameter and 70.0 mm in length. The apex of the applicator is semi-spherical. The cylinder is sealed to prevent fluid leakage into the source cavities.

Set Consists of:

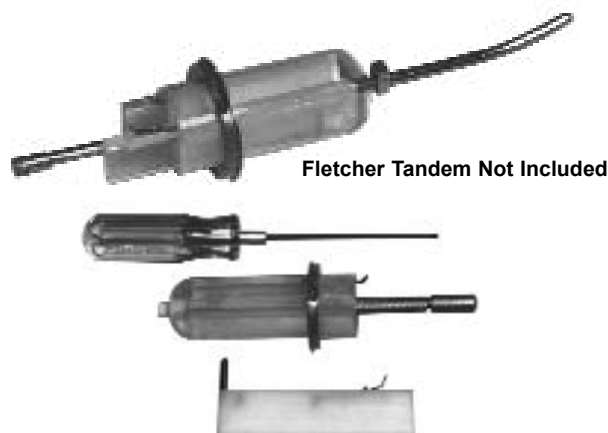
- (1) Wang Applicator
- (1) Bucket-Type Source Carrier
- (1) Flexible Source Carrier
- (2) Tandem End Caps
- (1) 15cm Stainless Steel Ruler
- (1) 12" Hemostat
- (1) Stainless Steel Sterilization Tray
- (1) Wooden Carrying Case

Sterilization: Autoclave or Gas

Item #	Description
976-080	Wang Front-Loading Vaginal Applicator

GYN APPLICATORS & ACCESSORIES

VAGINAL AFTER-LOADING CYLINDER SET



Vaginal Afterloading Acrylic Cylinder Set includes

- (1) Acrylic Cylinder
- (1) Threaded delrin plug
- (2) Rectangular delrin afterloading sliders
- (1) 6 cm threaded stainless steel afterloading barrel with cap
- (1) Adjustable stainless steel suture ring with screw
- (1) 3/32" ball hex driver
- (1) Source pusher for the rectangular afterloading slider

Specifications

Vaginal Afterloading Cylinder

Material: Acrylic

Density: 1.185 g/cm³

Item 976-033: 3.3 cm dia. x 12 cm L

Item 976-038: 3.8 cm dia. x 12 cm L

Item 976-040: 4.0 cm dia. x 12 cm L

Afterloading Slider

Material: Delrin

Density: 1.425 g/cm³

Sterilization: Gas only

DO NOT clean with alcohol this may fracture the acrylic.

The Vaginal After-Loading Acrylic Cylinders are of special value where cervical tumors are large and exophytic, where the uterus has been removed, when the vagina is quite small (sometimes due to post irradiation changes) or when the cervix cannot be identified or entered because of tumor deformity. Often the applicator can be placed without more than local infiltrative anesthesia into the labia; packing is not required to hold the applicator in place. It can be adapted to irradiate both cervical and vaginal cancers and is simple to apply and afterload.

The vaginal acrylic cylinder has a 6.6 mm diameter center hole for a Fletcher tandem or an afterloading tandem. If using a afterloading tandem, a threaded delrin plug is screwed into the tip. The acrylic cylinder has two channels for the rectangular afterloading sliders and an adjustable stainless steel suture ring. The rectangular afterloading sliders are made of delrin and use a vertical source. The separation between vertical sources in the afterloading sliders is 15 mm for the 33 mm cylinder and 20 mm for the 38 mm and 40 mm cylinders. A locking spring secures the afterloading slider in the cylinder and a pressure spring holds the source in the afterloader. A source pusher is used to remove sources. Optional Lead sliders can be placed into the after-loading channel to provide shielding to the rectum or bladder.

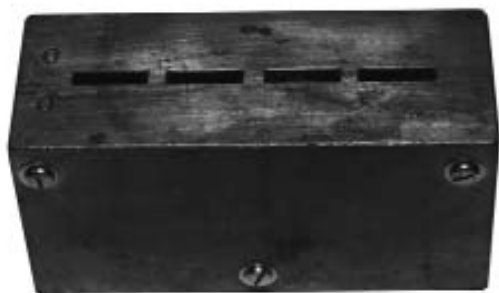
Original paper printed in OBSTETRICS AND GYNECOLOGY, Vol. 40, No. 1, July 1972, "A New After-Loading Applicator for Treatment of Cancer of the Cervix and Vagina" by William J. Peebles, MD ET AL, Norfolk General Hospital, Norfolk, VA.

Item	Vaginal Afterloading Acrylic Cylinder Set
976-033	33 mm
976-038	38 mm
976-040	40 mm

Item	Accessories and Replacement Parts
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
976-042	Source Pusher
976-065	Optional Lead Slider for Vaginal Cylinder
977-065-33	33 mm Adjustable S.S. Suture Ring
977-065-40	40 mm Adjustable S.S. Suture Ring
977-066	Optional Lead Slider for Vaginal Cylinder w/Lock
977-067	S.S. Ball Style Hex Driver
977-068	6 cm Afterloading S.S. Barrel w/Cap
977-069	S.S. Cap for Afterloading Barrel
977-070	Delrin Threaded Plug for Cylinders

LEAD CONTAINER

For Shielding Rectangular Afterloading Slider



The Lead Container will hold four delrin afterloading sliders that are used in Items 976-033 or 976-040 loaded with ¹³⁷Cs.

Specifications

Lead Wall: 1" (2.54 cm) Thick Lead

Lead Density: 11.35 g/cm³

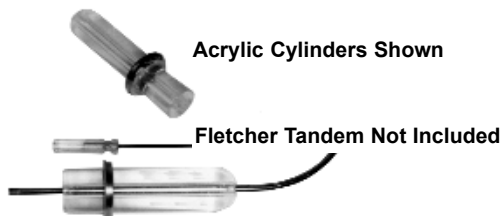
Size: 6" W x 2.25" D x 3" H (15.2 x 5.7 x 7.6 cm)

Weight: 16.75 lb (7.6 kg)

Item	Description
976-060	Lead Container for Sliders

GYN APPLICATORS & ACCESSORIES

VAGINAL CYLINDERS With 6.6 mm Diameter Tandem Hole



The Vaginal Acrylic or UHMW Cylinders are 12 cm long with a 6.6 mm diameter hole through the center for a Fletcher Tandem. Included is an adjustable stainless steel collar with suture holes for securing to the patient and a 3/32" ball socket type screwdriver for tightening the collar screw. **The tandem is not included.**

Item #	Description
970-000	12 Plastic Tandems and Pushers
970-010	12 Plastic Tandems
970-020	12 Plastic Pushers
977-019	19 mm Dia. Acrylic Cylinder w/Suture Ring
977-025	25 mm Dia. Acrylic Cylinder w/Suture Ring
977-032	32 mm Dia. Acrylic Cylinder w/Suture Ring
977-038	38 mm Dia. Acrylic Cylinder w/Suture Ring
977-060	Custom Made Acrylic Cylinder Only - State Size
977-065-19	19 mm Adjustable S.S. Suture Ring Only
977-065-25	25 mm Adjustable S.S. Suture Ring Only
977-065-33	33 mm Adjustable S.S. Suture Ring Only

Optional:

A delrin threaded plug (Item 977-070) may be used to close the tip of the vaginal cylinder. An afterloading stainless steel barrel (Item 977-068) may be screwed in to the cylinder to hold the source tandem.

Specifications

Sterilization: Gas only

Do Not clean with alcohol, this may fracture the acrylic.

Acrylic Density: 1.185 g/cm³

UHMW Density: 0.94 g/cm³

Item #	Description
977-065-38	38 mm Adjustable S.S. Suture Ring Only
977-067	Ball Style Hex Driver
977-068	Afterloading Stainless Steel Barrel w/Cap
977-069	S.S. Cap for Afterloading Barrel
977-070	Delrin Threaded Plug for Cylinders
977-119	19 mm Dia. UHMW Low Density Cylinder w/Suture Ring
977-125	25 mm Dia. UHMW Low Density Cylinder w/Suture Ring
977-133	33 mm Dia. UHMW Low Density Cylinder w/Suture Ring
977-138	38 mm Dia. UHMW Low Density Cylinder w/Suture Ring
977-160	Custom Made - UHMW Low Density Cylinder Only

OBLONG UHMW LOW DENSITY CYLINDER



Fletcher Tandem Not Included

Item #	Description
978-638	UHMW Low Density Cylinder w/Suture Ring & Hex Driver
977-068	Optional - S.S. Afterloading Barrel w/Cap
977-070	Optional - Delrin Threaded Plug

The oblong UHMW, Low Density Cylinder measures 20 mm wide x 38 mm diameter x 12 cm long with an adjustable stainless steel suture ring. It can be used with a tandem (not furnished) or it can be filled with radiation sources using the stainless steel afterloading barrel (Item 977-068) and a front end screw-in delrin plug (Item 977-070). The Plastic Tandem/Pusher (Item 970-000) source carrier can also be used. A ball hex driver is included for locking the suture ring in place.

Specifications

UHMW Density: 0.94 g/cm³

Sterilization: Gas Only

NYLON CYLINDER WITH LEAD OR TUNGSTEN



The Nylon Cylinder with Lead or Tungsten has an 11 mm lead or tungsten bottom and an adjustable stainless steel suture ring. The lead or tungsten is coated with a clear polyurethane paint and easily cleaned by removing six screws with a 7/64" allen wrench (included). This unit can be used with a tandem (not furnished) or it can be filled with radiation sources using the stainless steel afterloading barrel (Item 977-068) and a front end screw-in delrin plug (Item 977-070).

The Plastic Tandem/Pusher (Item 970-000) source carrier can also be used. A ball hex driver is included for locking the suture ring in place.

Specifications

Cylinder Weight: .8 lbs

Diameter: 33 mm

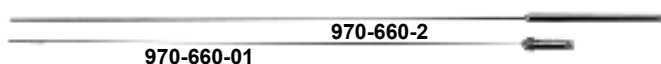
Length: 12 cm

Item #	Description
979-070	Lead/Nylon Cylinder w/Suture Ring and 2 Wrenches
979-072	Tungsten/Nylon Cylinder w/Suture Ring and 2 Wrenches
977-068	Optional - S.S. Afterloading Barrel w/Cap
977-070	Optional - Delrin Threaded Plug

Custom diameters and lengths can be made to order.

GYN APPLICATORS & ACCESSORIES

DISPOSABLE SIMON-HEYMAN APPLICATORS FOR 3M CESIUM SOURCES*



Item #	Description
970-660-0	Simon-Heyman 3M Disposable Applicators, 10/set
970-660-2	Simon-Heyman Inserter
970-660-01	Simon- Heyman Dummy Source #1
970-660-02	Simon- Heyman Dummy Source #2
970-660-03	Simon-Heyman Dummy Source #3
970-660-04	Simon-Heyman Dummy Source #4
970-660-05	Simon-Heyman Dummy Source #5
970-660-06	Simon-Heyman Dummy Source #6
970-660-07	Simon-Heyman Dummy Source #7
970-660-08	Simon-Heyman Dummy Source #8
970-660-09	Simon-Heyman Dummy Source #9
970-660-10	Simon-Heyman Dummy Source #10

The disposable Simon-Heyman Afterloading Applicators are 6 mm in diameter and 31 mm long. They are for use with 3M Heyman Sources*. The locking end of each capsule is threaded to fit the screw-in handle on both the dummy source and the actual source. Each applicator is individually numbered and has a stainless steel obturator. There are 10 disposable afterloading applicators in each package.

The Simon-Heyman dummy sources are individually notched at both ends and numbered on the screw-in handle to correspond with each numbered Simon-Heyman disposable applicator.

***Note: 3M Heyman Sources are no longer available.**

DISPOSABLE SIMON-HEYMAN APPLICATORS FOR MICRAD** SOURCES



Picture shown with Micrad Source

The Micrad** Disposable Simon-Heyman Afterloading Applicators are for use with Micrad Heyman sources. The locking end of each capsule is threaded to fit the screw-in handle on both the dummy source and the actual source. Each applicator is individually numbered, has a stainless steel obturator, and a radio-opaque marker on the distal end. There are 10 disposable afterloading applicators in each package.

****Micrad Sources manufactured by Nuclear Associates.**

Item #	Description
902-504	4 mm Dia. x ___L Simon-Heyman Micrad Applicator, 10/set
902-506	6 mm Dia. x ___L Simon-Heyman Micrad Applicator, 10/set
902-508	8 mm Dia. x ___L Simon-Heyman Micrad Applicator, 10/set
902-510	10 mm Dia. x ___L Simon-Heyman Micrad Applicator, 10/set

Customer must specify source length when ordering.

DISPOSABLE SIMON-HEYMAN APPLICATORS FOR IRIDIUM



The Simon-Heyman Disposable Afterloading Applicators are available in the sizes listed below. Each applicator has a Luer fitting, a radio-opaque marker in the tip, a stainless steel obturator, and is individually numbered. These applicators are for use with Iridium-192 ribbons. There are 10 applicators in each package. Color variations for each capsule are due to the material. Optional Luer Caps with a stainless steel crimping insert are available.

Not CT Compatible.

Item #	Description
902-142	4.0 mm Dia. x 20 mm L. Simon-Heyman Disp. Applicator
902-143	4.0 mm Dia. x 30 mm L. Simon-Heyman Disp. Applicator
902-161	6.4 mm Dia. x 15 mm L. Simon-Heyman Disp. Applicator
902-162	6.4 mm Dia. x 20 mm L. Simon-Heyman Disp. Applicator
902-163	6.4 mm Dia. x 30 mm L. Simon-Heyman Disp. Applicator
902-182	8.0 mm Dia. x 20 mm L. Simon-Heyman Disp. Applicator
902-183	8.0 mm Dia. x 30 mm L. Simon-Heyman Disp. Applicator
902-202	10 mm Dia. x 20 mm L. Simon-Heyman Disp. Applicator
902-203	10 mm Dia. x 30 mm L. Simon-Heyman Disp. Applicator
902-212	Luer Caps - 10/Pkg.