SafeTview™ Syringe Shields
Models 56-342 to 56-345

- Best shielding syringe shield with a window. Window is reset into offset solid tungsten barrel to prevent shine-through as occurs with other designs
- 9 mm thick glass – 5.2 g/cc gives the greatest protection of any glass in any syringe shield and is easily replaced
- Twist Grip - insert any BD® syringe, twist-turn and the syringe is held firmly. No screws, pins or springs to strip out or break–just a simple twist
- Easy viewing window – large, optically polished glass allows maximum light entry, and reflective white barrel lining makes viewing syringe contents easy
- Permits the use of three-way stopcocks

Specifications

<table>
<thead>
<tr>
<th>Weight without glass</th>
<th>Weight with glass</th>
<th>Replacement lead glass windows</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 cc 0.3 lb (0.14 kg)</td>
<td>3 cc 0.11 lb (0.05 kg)</td>
<td>56-377-1000 Latchkey Syringe Shield, 3 cc, Replacement Lead Glass</td>
</tr>
<tr>
<td>3 cc 0.36 lb (0.16 kg)</td>
<td>5 cc 0.11 lb (0.05 kg)</td>
<td>56-378-1000 Latchkey Syringe Shield, 5 cc, Replacement Lead Glass</td>
</tr>
<tr>
<td>5 cc 0.4 lb (0.18 kg)</td>
<td>10 cc 0.13 lb (0.06 kg)</td>
<td>56-379-1000 Latchkey Syringe Shield, 10 cc, Replacement Lead Glass</td>
</tr>
</tbody>
</table>

Latchkey™ Syringe Shields
Models 56-371 to 56-379

- Outstanding design. No screws, pins or springs to break or strip out – just a simple twist into the latchkey holds every syringe firmly
- Fully exposed needle hub allows you to visually check for correct venous insertion prior to injection. Permits the use of three-way stopcocks
- Available with or without a window in 3, 5, and 10 cc sizes to fit BD® syringes. Terumo® syringe is available in a 2.5 cc size
- Models with windows have a large, optically polished window that allows maximum light entry, and reflective white barrel lining makes viewing syringe contents easy
- 9 mm thick glass – 5.2 g/cc gives optimum protection and is easily replaced
- Window is recessed into offset solid tungsten barrel to prevent shine-through
- Models without windows have no lead glass shield to crack or fog, just solid tungsten for maximum shielding – great for unit dose users

Specifications

<table>
<thead>
<tr>
<th>Weight without glass</th>
<th>Weight with glass</th>
<th>Replacement lead glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 cc 0.3 lb (0.14 kg)</td>
<td>3 cc 0.11 lb (0.05 kg)</td>
<td>56-377-1000 Latchkey Syringe Shield, 3 cc, Replacement Lead Glass</td>
</tr>
<tr>
<td>3 cc 0.36 lb (0.16 kg)</td>
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<td>56-378-1000 Latchkey Syringe Shield, 5 cc, Replacement Lead Glass</td>
</tr>
<tr>
<td>5 cc 0.4 lb (0.18 kg)</td>
<td>10 cc 0.13 lb (0.06 kg)</td>
<td>56-379-1000 Latchkey Syringe Shield, 10 cc, Replacement Lead Glass</td>
</tr>
</tbody>
</table>

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44138-3303, USA.
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This innovative tungsten impregnated rubber syringe shield solves the problem of shielding QC samples. Simply insert any 1 cc or 1 cc tuberculin syringe and squeeze the syringe shield to hold it firmly. Reduces extremity exposure while performing quality control of compounded radiopharmaceuticals.

**Specifications**

<table>
<thead>
<tr>
<th>Shielding equivalency</th>
<th>0.7 mm lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.13 lb (0.06 kg)</td>
</tr>
</tbody>
</table>

**Lifetime™ Syringe Shields**

Models 56-351 to 56-359

- The best shielding syringe shield for patient injection. No lead glass window to crack or fog, just solid tungsten
- Fully exposed needle hub allows you to visually check for correct venous insertion prior to injection. Permits the use of three-way stop cocks
- Twist Grip - insert any BD® syringe, twist-turn and the syringe is held firmly. No screws, pins or springs to strip out or break–just a simple twist
- Uniquely serial numbered solid tungsten syringe shields can be assigned to staff members

<table>
<thead>
<tr>
<th>Available model(s)</th>
<th>56-351 Lifetime Syringe Shield, 2.5 cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-352 Lifetime Syringe Shields, 3 cc</td>
<td></td>
</tr>
<tr>
<td>56-353 Lifetime Syringe Shield, 5 cc</td>
<td></td>
</tr>
<tr>
<td>56-355 Lifetime Syringe Shield, 10 cc</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>3 cc 0.34 lb (0.15 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 cc</td>
<td>0.38 lb (0.17 kg)</td>
</tr>
<tr>
<td>10 cc</td>
<td>0.6 lb (0.27 kg)</td>
</tr>
</tbody>
</table>

**SECURE® Syringe Shields**

Models 56-362 to 56-363

- The only syringe shield design that effectively reduces the risk of radiation exposure and blood contamination
- Exclusive clamshell design opens to allow uncapped used syringes to fall into a waste container instead of backing the syringe back through the syringe shield
- Overlapping tungsten doors provide optimal shielding
- Easy viewing window – large, optically polished glass allows maximum light entry, and reflective white barrel lining makes viewing syringe contents easy

<table>
<thead>
<tr>
<th>Available model(s)</th>
<th>56-362 SECURE Syringe Shield, 3 cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-363 SECURE Syringe Shield, 5 cc</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>3 cc 0.3 lb (0.14 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 cc</td>
<td>0.52 lb (0.24 kg)</td>
</tr>
</tbody>
</table>

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA. Specifications are subject to change without notice. Squeezer, Lifetime, and SECURE are trademarks and/or registered trademarks of Cardinal Health, Inc. or one of its subsidiaries. BD is a registered trademark of Becton Dickinson and Company. © Copyright 2003 Cardinal Health, Inc. or one of its subsidiaries. All rights reserved. 56-151-ds rev 1 12 mar 03
FDG Syringe Shields
Models 56-410 to 56-413

This is a tungsten syringe shield with a sliding shielded cover to increase the operator’s protection from exposure of high level radiation, such as the type emitted by $^{131}$I (364.5 keV), $^{18}$F, $^{15}$O, and $^{11}$C (511 keV), especially on the syringe’s piston side.

### Specifications

- The syringe shields have a 0.23 inch thick tungsten body for protection from the isotope
- The interior is lined with plastic to stop the beta and help avoid Bremsstrahlung
- The outside is lined with a sliding tungsten cover with 0.01 inch lateral thickness and 0.35 inch thickness on the piston side

<table>
<thead>
<tr>
<th>Model</th>
<th>Syringe</th>
<th>Length of syringe body</th>
<th>Ø Syringe body</th>
<th>Weight</th>
<th>Leaded glass viewing window</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-410</td>
<td>5 cc</td>
<td>2.55 in</td>
<td>15</td>
<td>1.5 lb (0.68 kg)</td>
<td>NO</td>
</tr>
<tr>
<td>56-411</td>
<td>10 cc</td>
<td>2.67 in</td>
<td>20</td>
<td>1.8 lb (0.81 kg)</td>
<td>NO</td>
</tr>
<tr>
<td>56-412</td>
<td>5 cc</td>
<td>2.55 in</td>
<td>15</td>
<td>1.5 lb (0.68 kg)</td>
<td>YES</td>
</tr>
<tr>
<td>56-413</td>
<td>10 cc</td>
<td>2.67 in</td>
<td>20</td>
<td>1.8 lb (0.81 kg)</td>
<td>YES</td>
</tr>
</tbody>
</table>

The shield has:

- Two fast hook-and-release systems for the syringe piston
- A security button to lock piston
- One shaped shield on the front to limit scatter radiation

Note: An optional viewing window made of 8 mm leaded glass is available for easy syringe viewing.

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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56-407 ds rev 1 09 apr 03
Thin-Wall Syringe Shields\(^*\) for \(^{99m}\text{Tc}\) Models 56-272 to 56-273

- Designed specifically for \(^{99m}\text{Tc}\) or any other gamma emitter < 140 keV
- Slim design
- Lightweight

Here is a slim, lightweight, lead and lead-glass shield that has been developed for use with technetium-99m and other radionuclides with gamma energies below 140 keV. It is similar in construction to the Gamma-Vue Syringe Shield but has a thinner lead wall with flat surfaces.

The shield consists of a 0.10 inch thick lead cylinder and a lead glass window which provides optimum shielding to the user. For a 10 mCi dose of \(^{99m}\text{Tc}\) (7.2 R/hr at 1 cm unshielded), the shield provides an attenuation factor of 200. A syringe is locked in position by a screw.

**Specifications**
- **Weight of shield**: 0.20 lb (0.10 kg)
- **Weight of replacement lead glass**: 0.05 lb (0.02 kg)
- **Replacement lead glass windows**:
  - 56-272-1000 Thin-Wall Syringe Shield, 2.5 to 3 cc, Replacement Lead Glass
  - 56-273-1000 Thin-Wall Syringe Shield, 5 to 6 cc, Replacement Lead Glass
- **Available model(s)**:
  - 56-272 Thin-Wall Syringe Shield, 2.5 to 3 cc
  - 56-273 Thin-Wall Syringe Shield, 5 to 6 cc

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All-Vue™ Syringe Shields Models 56-211 to 56-213

- Provide maximum visibility of syringe
- Lightweight
- Large, clear viewing area
- Replaceable lead glass window
- Reduce exposure by over 95%

All-Vue Syringe Shields give users the maximum viewing area required when dispensing radionuclides; a full 180°. Half of the shield is made of lead; the other half is clear, high-density lead glass. With an All-Vue Syringe Shield, exposure to the technologist is reduced by over 95%. A major feature of the shield is its replaceable lead glass window. If it should crack or break accidentally, a new window can be installed easily and at a relatively low cost.

**Specifications**
- **Weight of shield**: 0.2 lb (0.09 kg)
- **Weight of replacement lead glass**: 0.10 lb (0.04 kg)
- **Replacement lead glass windows**:
  - 56-211-1000 All-Vue Syringe Shield, 1 cc, Replacement Lead Glass
  - 56-212-1000 All-Vue Syringe Shield, 2.5 to 3 cc, Replacement Lead Glass
  - 56-213-1000 All-Vue Syringe Shield, 5 to 6 cc, Replacement Lead Glass
- **Available model(s)**:
  - 56-211 All-Vue Syringe Shield, 1 cc
  - 56-212 All-Vue Syringe Shield, 2.5 to 3 cc
  - 56-213 All-Vue Syringe Shield, 5 to 6 cc

Gamma-Vue®
Standard Syringe Shields†
Models 56-260 to 56-265

- Lead and lead-glass protect fingers and hands
- Compatible with disposable syringes of all standard sizes

A Gamma-Vue Syringe Shield greatly reduces the radiation hazard from syringes containing millicurie quantities of radionuclides. For example, where 8 mCi of unshielded 99mTc would normally expose the technologist’s fingers to 5.8 R/hr at 1 cm, a Gamma-Vue Syringe Shield reduces this by a factor of up to 500. For 131I, the dose rates are reduced four-fold.

The shield consists of a 0.19 inch thick lead cylinder with a high-density lead glass panel for viewing the calibration marks of the inserted syringe. Syringes are held in place by pressure from a plastic screw. One end of the lead wall is tapered to assure minimum interference with injections.

Specifications

Weight of shields 0.35 lb (0.16 kg)
Weight of replacement lead glass 0.05 lb (0.02 kg)

Replacement lead glass windows
56-265-1000 Gamma-Vue Syringe Shield, 1 cc, Replacement Lead Glass
56-262-1000 Gamma-Vue Syringe Shield, 2.5 to 3 cc, Replacement Lead Glass
56-263-1000 Gamma-Vue Syringe Shield, 5 to 6 cc, Replacement Lead Glass
56-260-1000 Gamma-Vue Syringe Shield, 10 to 12 cc, Replacement Lead Glass
56-261-1000 Gamma-Vue Syringe Shield, 20 cc, Replacement Lead Glass

Available model(s)
56-265 Gamma-Vue Syringe Shield, 1 cc (Tuberculin)
56-262 Gamma-Vue Syringe Shield, 2.5 to 3 cc
56-263 Gamma-Vue Syringe Shield, 5 to 6 cc
56-260 Gamma-Vue Syringe Shield, 10 to 12 cc
56-261 Gamma-Vue Syringe Shield, 20 cc


Defender™ Dose Drawing Syringe Shields
Models 56-382 to 56-385

- 2 mm solid tungsten flange helps shield the hand when withdrawing liquid from a vial
- Flange is easily removed to allow transition from drawing dose to patient injection
- 9 mm thick glass – 5.2 g/cc gives the greatest protection of any glass in any syringe shield and is easily replaced
- Twist Grip - insert any BD® syringe, twist-turn and the syringe is held firmly. No screws, pins or springs to strip out or break – just a simple twist
- Easy viewing window – large, optically polished glass allows maximum light entry, and reflective white barrel lining makes viewing syringe contents easy
- Permits the use of three-way stopcocks

Specifications

Weight of shields 0.35 lb (0.16 kg)
Weight of replacement lead glass 0.05 lb (0.02 kg)

Replacement lead glass windows
56-382-1000 Defender Dose Drawing Syringe Shield, 3 cc, Replacement Lead Glass
56-383-1000 Defender Dose Drawing Syringe Shield, 5 cc, Replacement Lead Glass
56-385-1000 Defender Dose Drawing Syringe Shield, 10 cc, Replacement Lead Glass

Additional Defender Dose Drawing Flange
56-382-3000 Additional Defender Dose Drawing Flange, 3 cc
56-383-3000 Additional Defender Dose Drawing Flange, 5 cc
56-385-3000 Additional Defender Dose Drawing Flange, 10 cc

Available model(s)
56-382 Defender Dose Drawing Syringe Shield, 3 cc
56-383 Defender Dose Drawing Syringe Shield, 5 cc
56-385 Defender Dose Drawing Syringe Shield, 10 cc

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.
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56-260 ds rev 1 12 mar 03