



### Package Type

Designed as a reusable Type A Package to the IAEA SSR-6 2018 Regulations for the Safe Transport of Radioactive Material.

### Certification

Certified as a Type A package for the transportation of gaseous isotopes under non-exclusive use. The package also has been tested in accordance with US DOT Specification 7A Type A.

### Description

The SAFDRUM® 3919B consists of an Outer Drum (Design No 3919) which carries a Containment Vessel (CV) Design No 3022. The 3022 CV is manufactured from a 300 cc gas bottle with 15 mm of lead shielding, a stainless steel plug attached to a bellows sealed valve and ¼" VCO connection. The CV sits in the Inner Assembly, Design No 3027. The Inner Assembly consists of an anodized aluminium CV, which when assembled forms a secondary containment boundary with a single EPDM seal. The Inner Assembly also provides additional shielding in the form of a lead lid in the upper body and a test point plug that allows for sampling of the gas in the cavity. The Inner Assembly sits in an impact limiter foam set within the stainless steel Outer Drum.

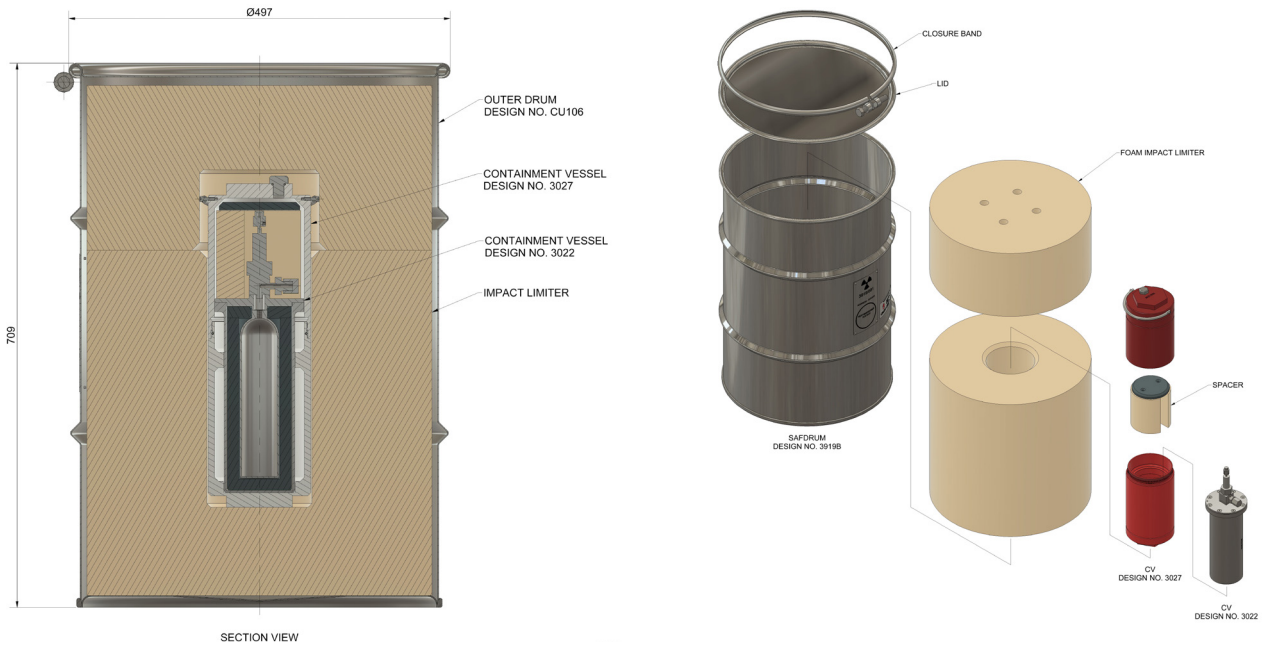
### Containment / Shielding

The containment system comprises of two independent barriers. Primary containment is provided by the 3022 CV and secondary containment is provided by the 3027 Inner Assembly.

Primary shielding is provided by the 15 mm lead wall on the gas bottle, with some additional shielding provided by the aluminium Inner Assembly and the stainless steel Outer Drum package.



## Section through Package Design No 3919B



### Approved Contents

- Xenon-133 (Xe-133) gas and radio-contaminants including; Xenon-131m, (Xe-131m), Xenon-133m (Xe-133m), Xenon-135 (Xe-135), Krypton-85 (Kr-85), Iodine-131 (I-131) and other nuclides (up to -0.1% of mixture) within the Type A activity limits.

### Modes of Transport

By road, rail, sea and air.

### Physical Data

Component	Outer Drum Design No 3919	Inner Assembly Design No 3027	Containment Vessel Design No 3022
<b>Dimensions</b>			
External Diameter (mm)	520	134	92
External Height (mm)	711	134	367
<b>Weights</b>			
Tare Weight (kg)	16	5	15
Maximum Permitted Contents Volume (cc)			300
Maximum Gross Weight of Package (including Contents) (kg)		40	