



# YOUR PARTNER IN RADIOPHARMACEUTICAL PACKAGING TYPE A

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Safe and reliable transport solutions  
for radiopharmaceuticals



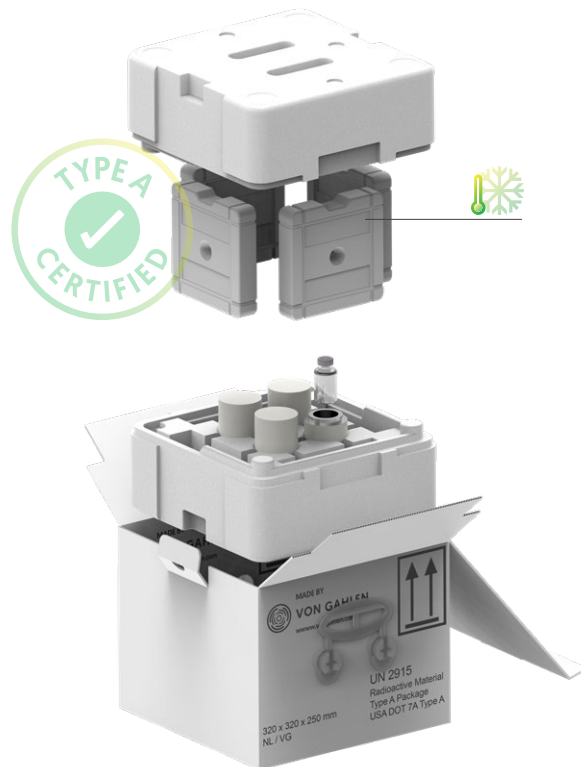
**VON GAHLEN**  
FOR SURE

# TYPE A PACKAGE | TEMPERATURE CONTROLLED

The single-use package is a complete and flexible solution for temperature-controlled shipment of radiopharmaceuticals like Lu-177 labeled fluids. It is made of printable and weatherproof corrugated PP board with sealing systems and handles. The tamper-proof seal prevents unintentional opening of the box.

The Type A Temperature-controlled packaging complies with ADR, ICAO Class 7, IAEA No. SSR-6 and US DOT.

- Suitable for transport by road and air
- Single-use
- Outside dimensions 320\*320\*250 mm [W\*D\*H]
- Cost-effective designed
- Fits up to four individual lead containers [VG-LP-12]
- Inside EPS foam insert (two parts)
- Temperature controlled by four cool packs
- The temperature range is +2°C - +25°C for 72 hours
- The foam has a cutout for adding a datalogger/GPS tracking system



 **Model: VG-TYPE-A/TCS-W-D**

## OUR LEAD CONTAINERS

All our lead containers are made from recycled lead and can be easily recycled after use. Our lead containers ensure safe transport and the protection of people worldwide against the radiation emitted by radiopharmaceuticals. At the same time, the lead containers ensure that radioactive substances are protected against external influences.

## LEAD CONTAINER

- Weight: 2 kg
- Suitable for Type A Temperature-controlled packaging
- Single-use
- Intended use for transport of vials up to 30 mL, depending on the dimension of the vial
- Light, easy to use



 **Model: VG-LP-12**

# MODULAR TYPE A TRANSPORT PACKAGING | DRY ICE

The single-use Dry Ice package is a complete solution for safely transporting sensitive radiopharmaceuticals with extremely low temperatures, ideal for clinical trials. Dry Ice, known for its reliability in maintaining temperature stability, keeps the packaging system cold. The shipping system has a unique, sturdy carry handle to enable careful handling.

The Modular Type A Dry Ice packaging design fully complies with ADR, ICAO Class 7, IAEA Safety Standards Series No. SSR-6 and IAEA Regulations for the Safe Transport of Radioactive Material on public roads and in the air.

- Suitable for transport by road and air
- Single-use
- Outside dimensions 396\*403\*416 mm (W\*D\*H)
- Designed for shipping radiopharmaceuticals under Dry Ice conditions
- Temperature up to -20°C for 72 hours
- Flexible modular system
- Suitable for multiple lead container sizes
- Polystyrene EPS insulating foam
- The foam has a cutout for adding a datalogger/GPS tracking system



 **Model: VG-TYPE-A/TCS-DI**

## STANDARD OR TAILOR-MADE?

We provide a standard range of fully certified Type A packaging solutions that fulfill your requirements for transport packaging to ensure your products get safely to the patient. We can also develop a tailor-made solution together depending on the requirements related to the product, shipping conditions, and the production process.

## LEAD CONTAINER

- Validated with a max. weight up to 8.6 kg
- Different models available on request [variable by isotope type, activity level, and lead container]
- Suitable for Modular Type A transport packaging Dry Ice
- Single-use
- Intended use for transport of vials up to 30 mL, depending on the dimension of the vial
- Robust, optimized shipping volume



# TYPE A | FLIGHT CASE

The Type A Flight Case with lead or tungsten container is designed to safely transport high-energy gamma radiopharmaceuticals in vials by road and air. A premium solution for long distances.

The Type A Flight Case packaging complies with ADR, ICAO Class 7, IAEA No. SSR-6 and US DOT.

The Flight Case is non-disposable, reusable, and closed with butterfly latches for easy lifting and a tamper-proof seal it also has space for the transportation documentation.

- Suitable for transport by road and air
- Re-usable
- Outside dimensions:  $\pm 305*305*330$  mm [W\*D\*H]
- Suitable for lead and tungsten container [30 mm shielding]
- Separate Flight Case with LD45 foam insert
- Two spaces for product documentation (in and outside of the transportation packaging)



 **Model: VG-TYPE-A/FC**

## FLIGHT CASE WITH LEAD CONTAINER

- Weight:  $\pm 16$  kg



 **Model: VG-TYPE-A/BVC/FC**

## FLIGHT CASE WITH TUNGSTEN CONTAINER

- Weight:  $\pm 21$  kg



 **Model: VG-TYPE-A/BVC-T/FC**

## DECIDING ON THE MOST SUITABLE METHOD OF TRANSPORT AND TYPE A PACKAGING

Two key factors, the half-life time of the medical isotope you want to ship and the length of the journey, play a significant role in determining the most effective and safe solution for your radiopharmaceutical transportation needs.

### LEAD CONTAINER

- Weight:  $\pm 8,4$  kg
- Suitable for plastic holder and Flight Case
- Multiple use
- Plastic insert for easy cleanability
- Intended use for transport of vials up to 30 mL with Flight Case, depending on the dimension of the vial
- User-friendly, easy to clean yet very robust



 **Model: VG-TYPE-A/C**

### TUNGSTEN CONTAINER

- Weight:  $\pm 13,8$  kg
- Suitable for Flight Case
- Multiple use
- Plastic insert for easy cleanability
- Intended use for transport of vials up to 30 mL with Flight Case, depending on the dimension of the vial
- Premium solution for long distances, providing more shielding



 **Model: VG-TYPE-AT/C**

# TYPE A | PLASTIC HOLDER

The Type A package plastic holder, with a capacity of 15 liters, is designed to safely transport high-energy gamma radiopharmaceuticals in vials by road and air. The plastic holder uses a specially designed lead container allowing for quick filling and transporting up to 20 mL of vials.

The Type A package Plastic Holder complies with ADR, ICAO Class 7, IAEA No. SSR-6 and US DOT.

- Suitable for transport by road and air
- Re-usable
- Outside dimensions 338\*297 mm [Ø\*H]
- Suitable for lead container [VG-Type-A/C]
- Opened and closed by just a quarter turn
- The lid can be sealed using a tamper-proof pin as an option
- An EPP insert is placed in the plastic holder



 **Model: VG-TYPE-A/BVC/B**

## PLASTIC HOLDER WITH LEAD CONTAINER

- Weight: 10,5 kg



 **Model: VG-TYPE-A/BVC/B**

## LEAD CONTAINER

- Weight: ± 8,4 kg
- Suitable for plastic holder and Flight Case
- Multiple use
- Plastic insert for easy cleanability
- Intended use for transport of vials up to 20 mL [with plastic holder]
- User-friendly, easy to clean yet very robust



 **Model: VG-TYPE-A/C**

## NOTE:

A Type A certificate will only be issued if the packaging is supplied as a complete unit, including the transport containers and accessories, not for separately ordered components.

## YOUR RELIABLE PARTNER IN CERTIFIED TYPE A PACKAGING

We have five decades of experience designing and producing radiopharmaceutical packaging solutions that comply with the highest standards regarding quality and safety. All our packaging solutions have an optimal integration with the hot cells we build for nuclear medicine and radiopharmacy.





## ABOUT VON GAHLEN

At Von Gahlen, a trusted family-owned business with over 50 years of experience in developing radiation shielding solutions, we are committed to delivering products that meet your needs without making any concessions in quality and reliability. We continuously refine and enhance our techniques based on new insights, ensuring that our products effectively protect people, their working environment, and the radiopharmaceuticals they produce. With Von Gahlen, you can be confident in the safety and reliability of your radiopharmaceutical transportation.

Our products offer protection during the production of radiopharmaceuticals for diagnostics and treatment, such as hot cells, glove boxes and fume hoods. We supply University Medical Centers, hospitals, research institutions and commercial pharmacies that are handling nuclear medicine.

Together with you, we develop the most durable and safest solutions. For sure!

### **Von Gahlen**

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