

Package Type

Designed as a UF6 Sample Bottle, which can be used in a suitable Type A package for the transport of samples as UN 3507 (uranium hexafluoride, radioactive material, excepted package) in accordance with the IAEA SSR-6 2018 Regulations for the Safe Transport of Radioactive Material.

Certification

Not applicable, sample container only.

Description

The sample bottle consists of a stainless steel UF6 sample bottle (Design No 2926). The bottle is designed so that the product tube (being that part of the bottle that carries the UF6) can be disconnected from the valve at a flange. The product tube has a plain cylindrical cavity providing a wide aperture which ensures that there are no traps for residual material: this facilitates thorough cleaning to ensure that there will be no contamination of samples.

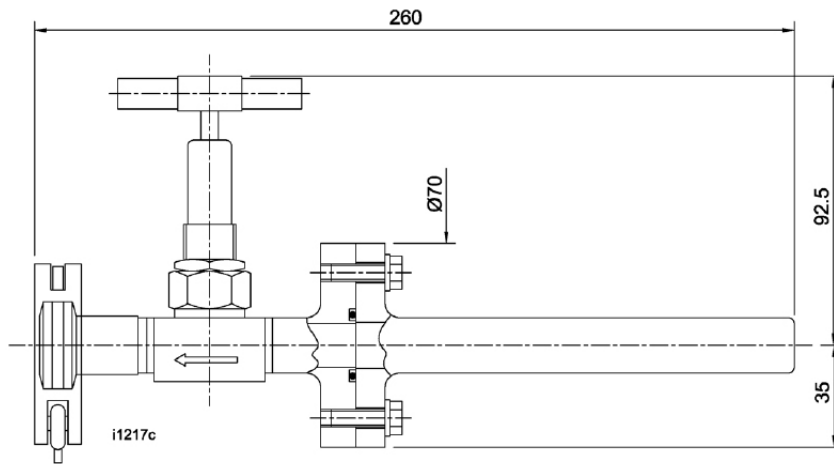
Containment / Shielding

The sample bottles are pressure tested, leak tested and approved in accordance with an envelope of requirements that encompasses the safety requirements of the IAEA SSR-6 2018 as well as ADR, RID, ICAO, IATA and 49CFR regulations, and the ISO 7195 and ANSI N14.1 standards. Leakage tests are carried out with a test pass level of 1×10^{-3} bar cc/s SLR (0.1 Pa L/s).

The capacity of the sample bottle is 29 cc . No dedicated shielding is provided, the stainless steel walls are ~1.6 mm thick.



Section through Sample Bottle Design No 2926



Approved Contents

- UF6 samples

Modes of Transport

By road, rail, sea, air and inland waterway.

Physical Data

Component	Sample Bottle Design No 2926	
Dimensions		
External Dimensions (mm)	Flange Ø	70 mm
	Tube Ø	19 mm
	O/A length	260 mm
Internal Dimensions (mm)	Tube Ø	15.75 mm
	Tube length	148.35 mm
Cavity Volume (cc)	29	
Weights		
Weight (kg)	Each	1.175
Contents Weight (kg)	0.09	
Total Bottle Weight (kg)	1.265	