

# Krypton-85

## Beta Sources

### Low bremsstrahlung, high output sources

Krypton-85 gas is encapsulated in welded titanium capsules with a 25µm thick titanium window. Each capsule has a copper fill tube at the back, which is sealed by cold welding and then soldering. The inclusion of a welded back cap provides a secondary seal to protect the cold welded copper tube and provides improved mechanical strength.

A protective window shield is included with each source to protect the window during transportation and handling. It also absorbs the beta dose from the source, making it easy for the user to handle and load into gauging devices.

Nominal activity *		Capsule	Product code
GBq	mCi		
3.7	100	X.1088	KAC10881
7.4	200	X.1088	KAC10882
11.1	300	X.1088	KAC10883
14.8	400	X.1088	on request

\* Tolerance ±10%

**Recommended working life:** 10 years

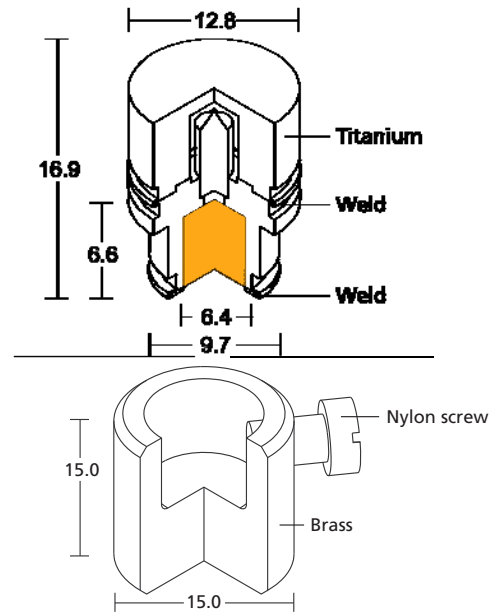
#### Quality control

Windows are Helium leak tested to  $< 10^{-8}$  mBar l<sup>-1</sup> sec<sup>-1</sup> before filling.

Emanation test V + VI

Sources are measured using a 2π thin windowed ion chamber and the resulting ion current compared against Eckert & Ziegler Nuclitec GmbH reference standards.

X.1088\*  
VZ-2832



## Safety performance testing

ANSI/ISO classification	US-Model number
C43332	KAC.D3

\* X.1088 manufactured according to drawing VZ-2832

# Krypton-85

## Beta Sources

### Low bremsstrahlung, high output sources

Krypton-85 gas is encapsulated in welded titanium capsules with a 25µm thick titanium window. Capsules are sealed either by cold welding a copper filling tube or crimping a silver washer. The crimped silver washer sources are only filled to sub atmospheric pressures. The inclusion of a welded back cap provides a secondary seal and improved mechanical strength.

A protective window shield is included with each source to protect the window during transportation and handling. It also absorbs the beta dose from the source, making it easy for the user to handle and load into gauging devices.

Nominal activity *		Capsule	Product code
GBq	mCi		
3.7	100	X.1114	KAC11401
7.4	200	X.1114	KAC11402
11.1	300	X.1114	KAC11403
18.5	500	X.1114	KAC11405
37.0	1000	X.1114	KAC11410
1.85	50	X.1266/3	KACK5565
7.4	200	X.1266/3	KACK7807
11.1	300	X.1266/3	KACK5674
18.5	500	X.1266/3	KACK7654
37.0	1000	X.1266/3	KACK8148

\* Tolerance ±10%

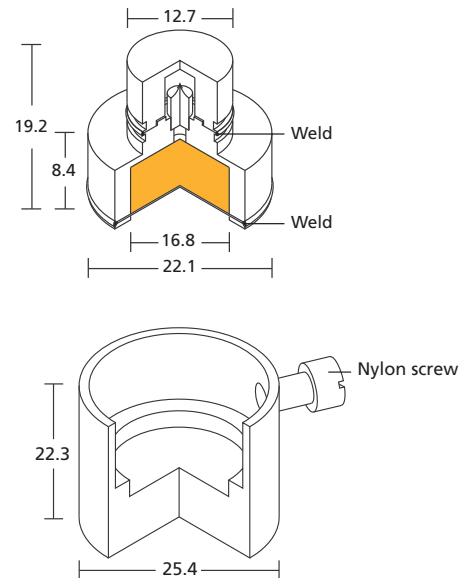
**Recommended working life:** 10 years

#### Quality control

Windows are Helium leak tested to  $< 10^{-8}$  mBar l<sup>-1</sup> sec<sup>-1</sup> before filling. Emanation test V + VI

Sources are measured using a 2π thin windowed ion chamber and the resulting ion current compared against Eckert & Ziegler Nuclitec GmbH reference standards.

### X.1114\* VZ-2820

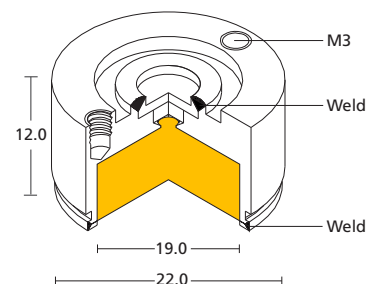


### Safety performance testing

Capsule number	ANSI/ISO classification	US-Model
VZ-2820	C33332	KAC.D1
VZ-2866	C42341	None

\* X.1114 manufactured according to drawing VZ-2820

### X.1266\* VZ-2866



\* X.1266 manufactured according to drawing VZ-2866