RITVERC isotope products

^{57}Co

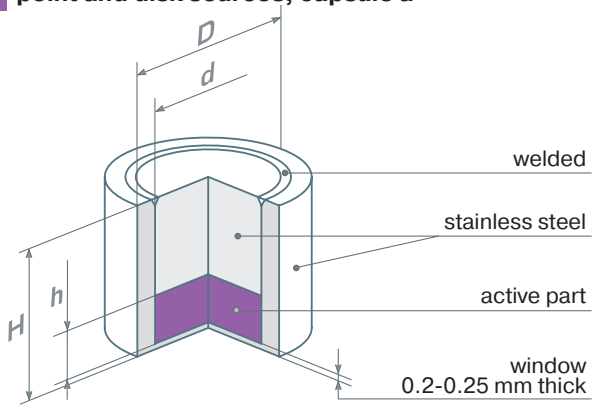
Gamma radiation sources

Half-life: 271.8 days

Photon energy: γ_1 122.06 keV (85.5%)
γ_2 136.47 keV (10.7%)

^{57}Co is incorporated in ceramic matrix and sealed in a welded stainless steel capsule.

1 point and disk sources, capsule a



point & disk sources 1

code	overall geometric dimensions, DxH, mm	active part, dxh, mm
GCo7.044 [1)]	3x3	2x1.5
GCo7.041	3x5.3	1.6x1.5
GCo7.13**	3x10	2x1.5

for activity and typical photon output see table 1

table 1

nominal activity*		typical photon output ph/sec per 10^{-4} steradian
mCi	MBq	
1	37	$2.8x10^2$
3	111	$8.4x10^2$
5	185	$1.4x10^3$
10	370	$2.8x10^3$
50	1850	$1.4x10^4$

code	nominal activity*		typical photon output ph/sec per 10^{-4} steradian	overall geometric dimensions, DxH, mm	active part, dxh, mm
	mCi	MBq			
GCo7.042	3	111	$8.4x10^2$	4x5.3	2.5x1.5
	10	370	$2.8x10^3$		
	50	1850	$1.4x10^4$		
GCo7.045**	50	1850	$1.4x10^4$	4x10	3x1.5
	70	2590	$1.96x10^4$		
GCo7.14**	50	1850	$1.4x10^4$	7x10	5x2.5
	100	3700	$2.8x10^4$		
GCo7.23	10	370	$2.8x10^3$	10x5	8.5x1
	50	1850	$1.4x10^4$		
	100	3700	$2.8x10^4$		
GCo7.21	10	370	$2.8x10^3$	12x3	8.5x1
	50	1850	$1.4x10^4$		
	100	3700	$2.8x10^4$		
GCo7.24	10	370	$2.8x10^3$	12x3	10x1
	50	1850	$1.4x10^4$		
	100	3700	$2.8x10^4$		

* tolerance: ±10%
[1)] ISO classification: C64344
ISO classification: C64444
recommended working life: 5 years
other activities are available on request

**IAEA Special Form Certificate: RU/6005/S,
old codes: GCo7.12 for GCo7.13,
GCo7.13 for GCo7.045, GCo7.22 for GCo7.14.

please turn over

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isotope products

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Gamma radiation sources

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γ_2 136.47 keV (10.7%)

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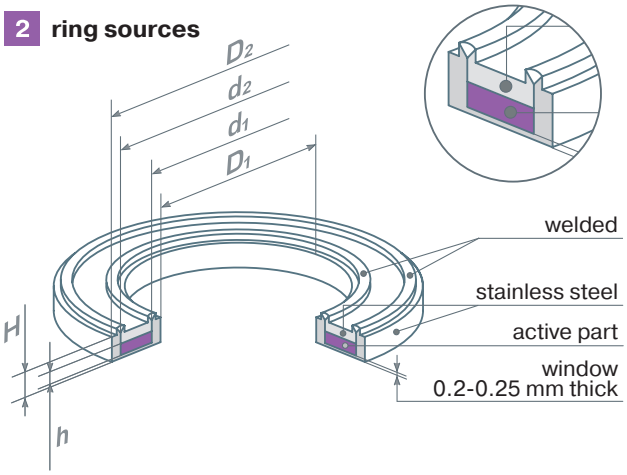
2 ring sources



ring sources 2

code	nominal activity*		typical photon output ph/sec per 10^{-4} steradian	overall geometric dimensions, D_2xD_1xH, mm	active part, d_2x$d_1$xh, mm
	mCi	MBq			
GCo7.032	3	111	$8.4\text{x}10^2$	30x20x3 [1]	28x22x1.2
	10	370	$2.8\text{x}10^3$		
	50	1850	$1.4\text{x}10^4$		
GCo7.033**	50	1850	$1.4\text{x}10^4$	34x24x3 [2]	32x26x1.2
	70	2590	$1.96\text{x}10^4$		

* tolerance: ±10%
**IAEA Special Form Certificate: RU/6001/S
[1] holders are also available: 50.8x20x8 (HR.1), 50x19.3x5.5 (HR.2), 50x12.7x8 (HR.3)
[2] holders are also available: 50.8x24x8 (HR.1), 50x23.3x5.5 (HR.2), 50x16x8 (HR.3)
ISO classification: C64444
recommended working life: 5 years
other activities are available on request

please turn over

RITVERC
isotope products

^{57}Co

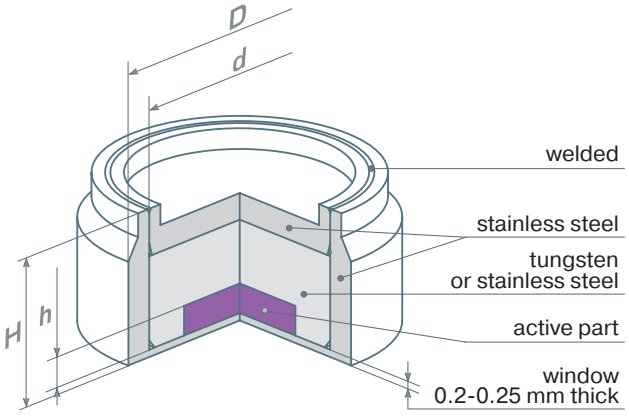
Gamma radiation sources

Half-life: 271.8 days

Photon energy: γ_1 122.06 keV (85.5%)
γ_2 136.47 keV (10.7%)

^{57}Co is incorporated in ceramic matrix and sealed in a welded stainless steel capsule.

3 disk sources, capsule b



disk sources 3

code	nominal activity*		typical photon output ph/sec per 10^{-4} steradian	overall geometric dimensions, DxH, mm	active part, dxh, mm
	mCi	MBq			
GCo7.10	3	111	$8.4x10^2$	8x5	4x1
	10	370	$2.8x10^3$		
	50	1850	$1.4x10^4$		

*tolerance: ±10%
ISO classification: C64444
recommended working life: 5 years
other activities are available on request

please turn over

RITVERC
isotope products

^{57}Co

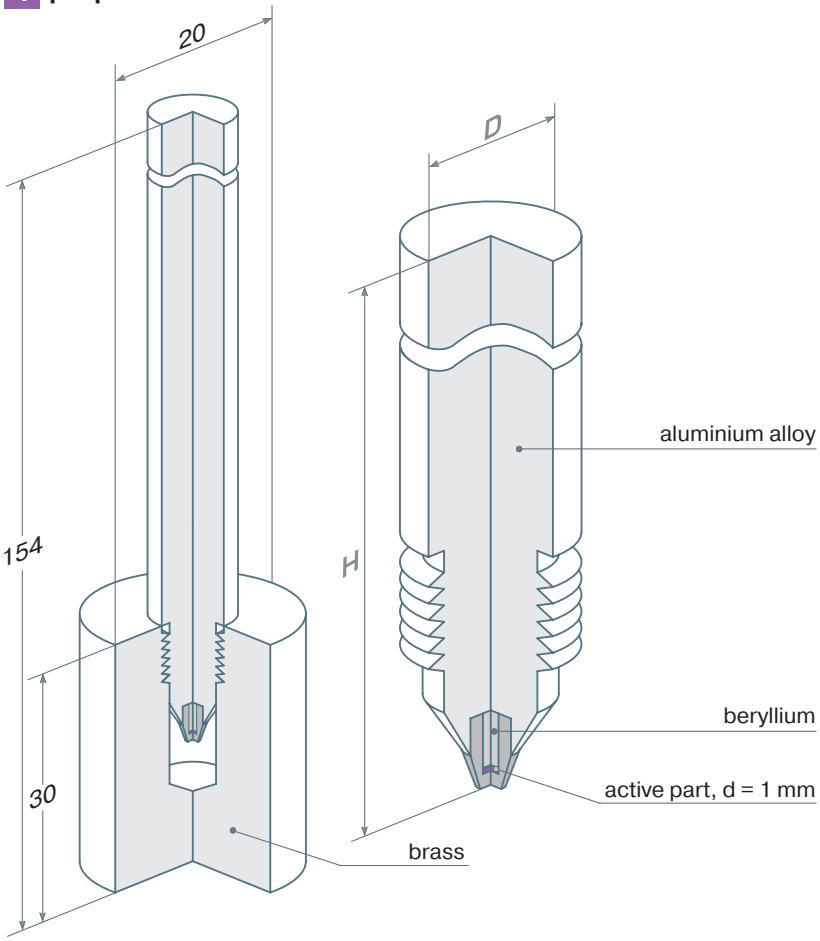
Gamma radiation sources: penpoint marker sources

Half-life: 271.8 days

Photon energy:
γ_1 14.41 keV (9.14%)
γ_2 122.06 keV (85.5%
γ_3 136.47 keV (10.7%)

^{57}Co is incorporated in ceramic matrix and sealed in beryllium capsule with aluminium alloy holder. The source is supplied with brass cap to transport and storage.

4 penpoint marker sources



penpoint marker sources 4

nominal activity*		overall geometric dimensions, DxH, mm	active part, d, mm
mCi	MBq		
0.01 ÷ 5	0.37 ÷ 185	8x140	1

*tolerance: ±10%
ISO classification: C54243
recommended working life: 5 years

please turn over

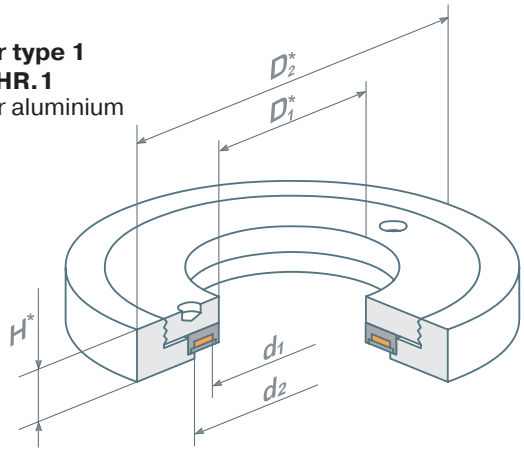
RITVERC™
isotope products

holders

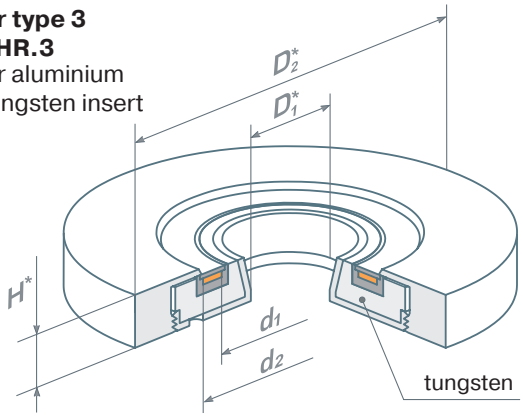
Holders for ring sources

Holders provide a convenient and safe method for storing and using the ring sources for direct irradiation of a target specimen.

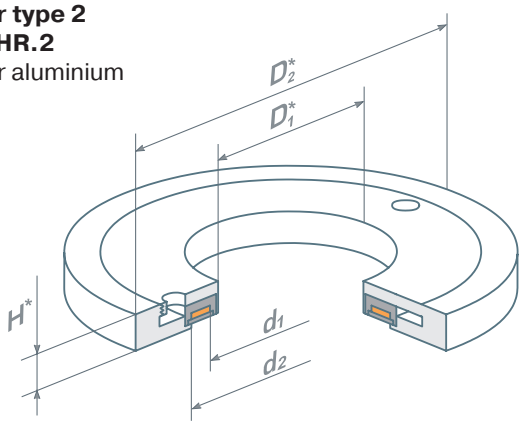
holder type 1
code HR.1
titan or aluminium



holder type 3
code HR.3
titan or aluminium
with tungsten insert



holder type 2
code HR.2
titan or aluminium



holders

code	overall geometric dimensions, D_1*xD_2*xH*, mm	active part, d_2x$d_1$xh, mm
HR.1	50.8x20x8	28x22x1.2
	50.8x24x8	32x26x1.2
HR.2	50x19.3x5.5	28x22x1.2
	50x23.3x5.5	32x26x1.2
HR.3	50x12.7x8	28x22x1.2
	50x16x8	32x26x1.2

* other dimensions are available on request