



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0723/S, REVISION 5

East Building, PHH-23
1200 New Jersey Ave, SE
Washington, D.C. 20590

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - Varian Medical Systems Models GammaMed 232 and Bravos 232A.
2. Source Description - The Model GammaMed 232 and Bravos 232A are cylindrical single encapsulations made of stainless steel and either tungsten inert gas, laser, or plasma seal welded. Approximate outer dimensions of the encapsulation are 0.9 mm (0.04 in.) in diameter and either 2.97 mm (0.12 in.) in length for the short GammaMed 232 or 4.52 mm (0.18 in.) in length for the long GammaMed 232 and Bravos 232A. Minimum wall thickness is 0.08 mm (0.003 in.). A stainless steel connector and cable is welded to one end of the encapsulation. The overall length of the encapsulation, connector, and cable is 2,100 mm (82.7 in.) for either GammaMed 232 and 2,400 mm (94.5 in.) for the Bravos 232A. Construction shall be in accordance with attached Varian Medical Systems Drawings Nos. GM232.03-000 Rev. K for the short GammaMed 232, GM232.02-000-SFC, Rev. H for the long GammaMed 232, and VG32203000-SFC, Rev. G for the Bravos 232A.
3. Radioactive Contents - No more than 51.8 GBq (1.4 Ci) of Iridium-192 for the short version of the GammaMed232 or 555.0 GBq (15.0 Ci) of Iridium-192 for the long version of the GammaMed232 and the Bravos 232A. The Ir-192 is in the form of a solid metal.

¹ "Regulations for the Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1)" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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4. Management System Activities - Records of Management System activities required by Paragraph 306 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on September 30, 2029. Previous editions which have not reached their expiration date may continue to be used.

This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the June 13, 2024 petition by Varian Medical Systems, Palo Alto, CA, and in consideration of other information on file in this Office.

Certified By:



William Schoonover
Associate Administrator for Hazardous
Materials Safety

September 19,
2024

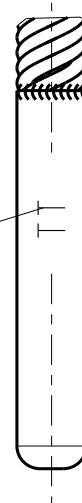
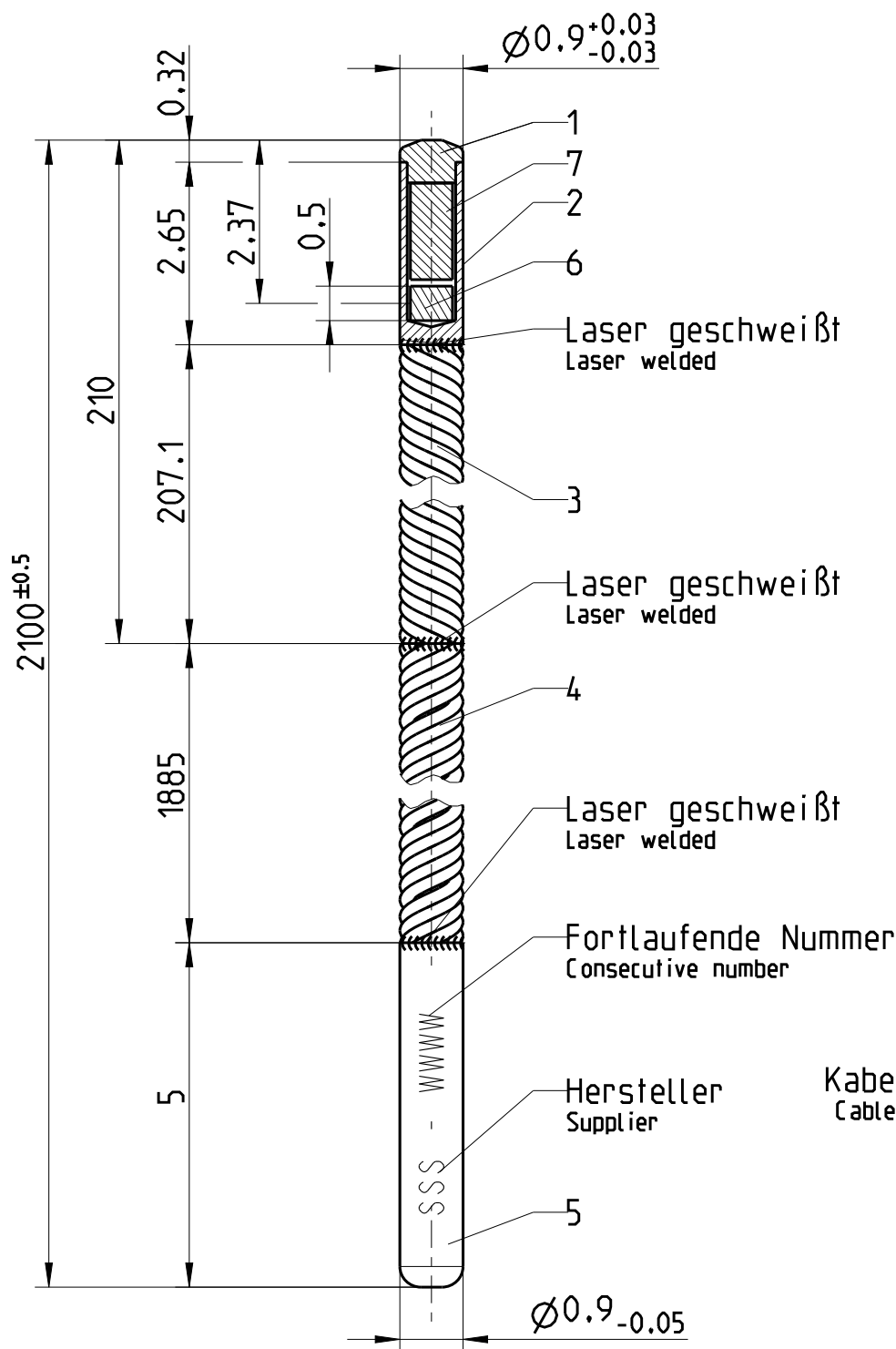
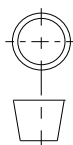
(DATE)

Revision 5 - Issued to extend the expiration date, add the Bravos 232A model, remove the GammaMed 212 model, update reference drawings to new revisions, and to issue the certificate to the 2018 edition of SSR-6.

First Angle Projection

Do not scale.
If in doubt ask.

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Beladung/ Loaded:
max. 51.8 GBq (1.4Ci)

PA M.0013

.	.	.	.		Date	Name
.	.	.	.	Drawn	24.05.05	J. SCHLICK
.	.	.	.	Checked		
.	.	.	.	S-Check		
k	Page 2 removed	01.12.20	JS	Dimension varia- tion according DIN ISO 2768 middle-H		Scale 10:1
.	Pos. 3+4 new id-number	01.12.20	JS			
j	Pos. 5 new revision	23.05.16	Sh			
h	Pos. 6 war rev. B	08.03.13	Sh			
g	All parts new revision	23.04.12	Sh	Material GAMMAMED PLUS (PDR)		
f00	Pitch of pos. 4 corrected	01.06.10	Sh			
e	New pos. 5	11.01.07	Sh			
d	Pos. 1.2.5 new rev	24.05.05	Sh			
.	Transferred to Pro/E	24.05.05	Sh			
Resp.	Modification	Date	Name	Weight:	0.01000	Kg

varian

Varian Medical Systems Haan GmbH, Rheinische Str. 2, D-42781 Haan

Name	Strablerkabel	Page No	1
	AUSFÜHRUNG: 3	Pg total	1
	SOURCE CABLE		

Drawing No.:
GM232.03-000

Product No.: GM12000560

Replacement for: _____

Dimensions are in mm

Format: A4

Modellname: GM232_03-000/ASM/000/03

Zeichnungsname: GM232_03-000/0NC/000/03

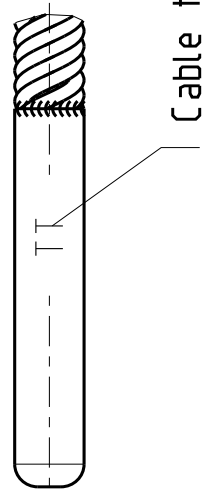
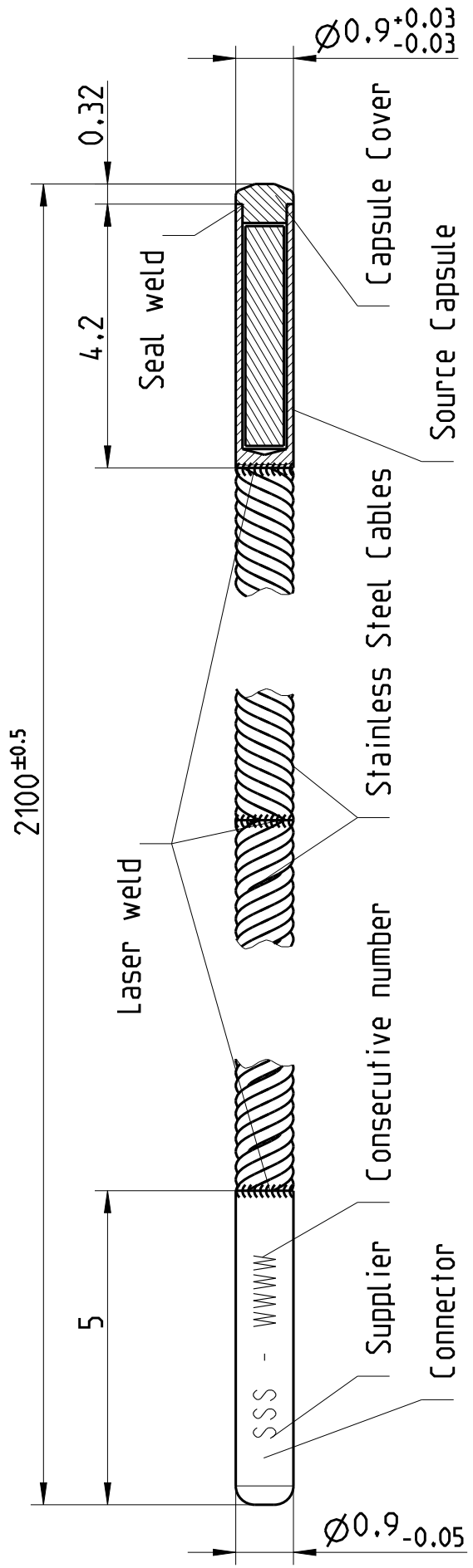
CM# GM MFG 0108

Released

Ver: 03

Rev: K

24. February 2022



Engraving style until rev. C00:
(For reference only)

Type designation

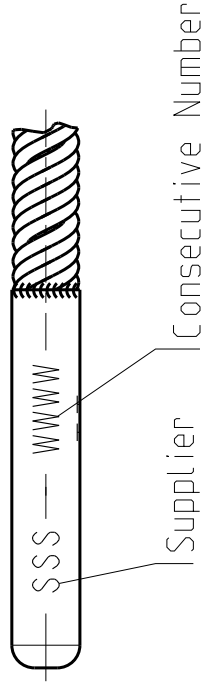
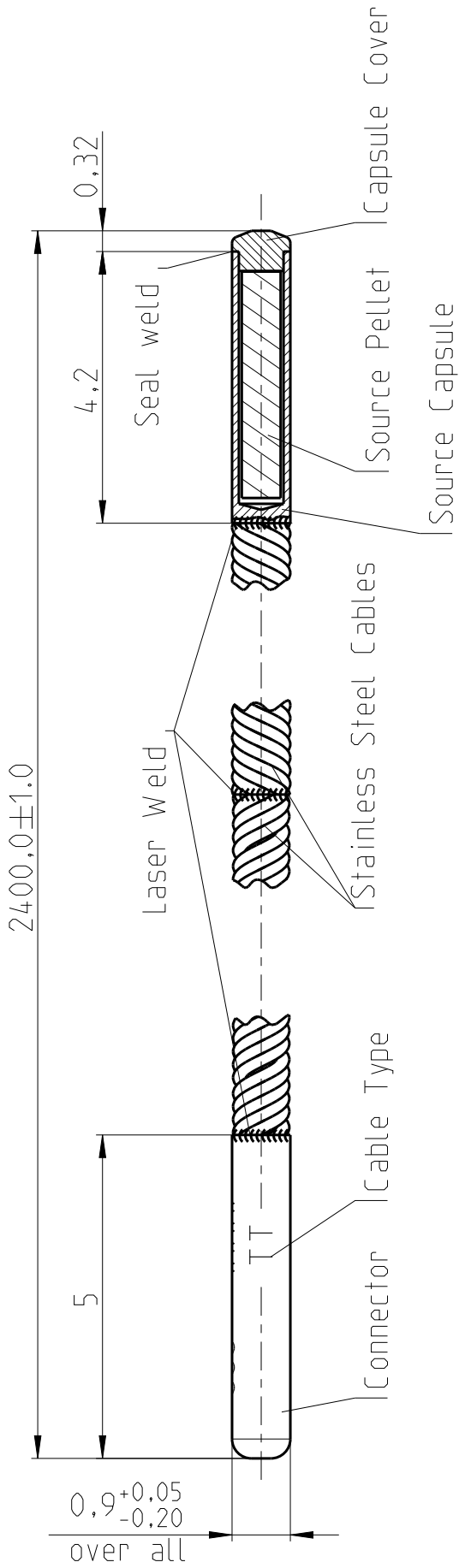
"001" to "999"
consecutive number

Connector with ID

VARIAN
medical systems

Varian Medical Systems Inc..
3100 Hansen Way, Palo Alto,
CA 94304, USA

Name: GammaMed plus 232 HDR Source	
Drawing No.: GM232.02-000-SFC	Rev: H
Model: GM232.02-000-ASM Dwg: GM232.02-000-SFC.DRW	Date: 01/Dec./2020



VARIAN medical systems Varian Medical Systems Inc., 3100 Hansen Way, Palo Alto, CA 94304, USA	
Name:	Bravos 232A HDR Source
Drawing No.:	VG32203000-SFC
Model: VG32203000.ASM.000.06 Dwg: VG32203000-SFC.000.02	Date: 31/Jan/2018



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1200 New Jersey Ave, SE
Washington, D.C. 20590

CERTIFICATE NUMBER: USA/0723/S

ORIGINAL REGISTRANT(S) :

Varian Medical Systems
M/S LV1
6883 Spencer Street
Las Vegas, NV, 89119 USA