



① fitted to outside diameter item 2 at the choice of manufacturer

Integral leak rate <  $1 \times 10^{-10}$  mbar l/s

Outgassing rate <  $5 \times 10^{-10}$  mbar l/s  $\text{cm}^2$

pay attention to F-TG-QUA-de-Schweisstechnik-V004

UHV-suitable cleaning, an example can be found in the guideline F-TG-V6.1e and F-TG-V-6.3e

Details, also to the alternative materials can be found in F-DS-HEB-en-VC\_0096\_Detailed\_Specification\_Straight\_Tubes

<b>Welding classification</b> DIN EN ISO 5817	Quality level
Vacuum weldings	-B-

Edges ISO 13715  $\begin{matrix} +0.3 \\ -0.1 \end{matrix}$   $\sqrt{R25}$

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<b>GSF</b> <small>Helmholtzzentrum für Schwerionenforschung GmbH          Planckstrasse 1, 64291 Darmstadt</small>		<b>Dimensions without tolerance indication</b> <small>DIN ISO 2768-1-1          DIN ISO 2768-2-1:1991          DIN EN ISO 1302:2002</small>	<b>Weight</b> 25,4 kg <b>Scale</b> 1:1
<b>Drawn</b> 24.01.2025 ZURKAN <b>Checked</b> 05.02.2025 TEBERL <b>Approved</b> 05.02.2025 LOTZ	<b>Date</b> <b>Name</b>	<b>Description</b> Beamtube	<b>Size</b> A1
<b>Drawing No.</b> VC-1499384-A-V07		<b>Rev.</b> -	<b>Sheet</b> 1 of 1