



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

Integral leak rate < 1×10^{-10} mbar l/s

Outgassing rate < 5×10^{-10} mbar l/s 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

Welding classification	Quality level
DIN EN ISO 5817	
Vacuum weldings	-B-

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

$\sqrt{Rz25}$

<small>Copying of this document and giving it to others and the use of communication of the contents thereof are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of a utility model or design.</small>		Projection 	Change Number -----
GSF <small>Helmholtzzentrum für Schwerionenforschung GmbH Planckstrasse 1, 64291 Darmstadt</small>		Dimensions without tolerance indication <small>DIN ISO 2768-1-1 DIN ISO 2768-2-1:1991 DIN EN ISO 1302:2002</small>	Weight 32,6 kg
Drawn 15.04.2024 Oliver Zurkan Checked 15.04.2024 Torsten Eberl Approved 16.04.2024 Reinhard Lotz		Description Beamtube	Scale 1:1
FR		Drawing No. VC-1421398-A-000	Rev. - Sheet 1 of 1