



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-V007

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 $\begin{matrix} +0.3 \\ -0.1 \end{matrix}$

$\sqrt{R25}$

| | | | |
|--|--------------------|----------------------------------|---------------------------------|
| 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. | | Projection | Change Number |
| GSi Helmholtzzentrum für Schwerionenforschung GmbH Planckstrasse 1, 64291 Darmstadt | | Surfaces DIN EN ISO 1302:2002 | -----Approved----- |
| Dimensions without tolerance indication DIN ISO 2768-1-1 DIN ISO 2768-2-1:1991 DIN EN ISO 13920-BF | | Weight 5,9 kg | Scale 1:1 |
| Drawn 04.07.2025 EHEGER | Date 04.07.2025 | Name ZURKAN | Description Beamtube |
| Checked 07.08.2025 TEBERL | Date 07.08.2025 | Name TEBERL | Size A1 |
| Approved 22.09.2025 | Date 22.09.2025 | Name TEBERL | Drawing No. VC-1373326-A-V57 |
| FR | | | Rev. - Sheet 1 of 1 |