



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

$\sqrt{Rz25}$

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 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 14,8 kg Material Scale 1:1
Drawn 16.07.2025 EHEGER	Name	Description Beamtube	Size A1
Checked 07.08.2025 ZURKAN	Date	Drawing No. VC-1373326-A-V61	Rev. - Sheet 1 of 1
Approved 22.09.2025 TEBERL			
FR			