



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_0092_Detailed_Specification_Bellow-V004

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

Edges ISO 13715 $\begin{cases} +0.3 \\ -0.1 \end{cases}$ $\sqrt{Rz25}$

Operating temperature: 20°C
 Installation position: horizontal
 Axial movement per convolution +/- 3.1mm
 Inside Diameter: 144.1mm
 Outside Diameter: 189.9mm
 Vacuum: inside

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GSF <small>Helmholtzzentrum für Schwerionenforschung GmbH Planckstrasse 1, 64291 Darmstadt</small>		Surfaces <small>DIN EN ISO 1302:2002</small>	Weight 6,5 kg
Dimensions without tolerance indication <small>DIN ISO 2768-1/-2 DIN ISO 2768-2/-1/-191 DIN EN ISO 13920-BF</small>		Material	Scale 1:1
Drawn 04.07.2025 EHEGER	Date 08.08.2025 ZURKAN	Description Beamtube with bellow	Size A1
Checked 08.08.2025 ZURKAN	Approved 22.09.2025 TEBERL	Drawing No. VC-1451346-A-V04	Rev. -
FR		Sheet 1 of 1	