



1:2

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 cm²

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_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 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	6,1 kg
Material		Scale	1:1
Date	Name	Description	Size
Drawn 19.08.2024	Oliver Zurkan	Beamtube with bellow	A1
Checked 20.08.2024	Torsten Eberl		
Approved 21.08.2024	Reinhard Lotz		
Drawing No.		Rev.	Sheet
VC-1451346-A-V01		-	1 of 1
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