



welding seam and welding geometrie  
at the choice of manufacturer  
Vacuum welding circulating

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-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

<b>Welding classification</b> DIN EN ISO 5817	Quality level
Vacuum weldings	-B-

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

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

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Surfaces DIN EN ISO 1302:2002		-----Approved-----		
<b>GSi</b> Helmholtzzentrum für Schwerionenforschung GmbH Planckstrasse 1, 64291 Darmstadt	Dimensions without tolerance indication DIN ISO 2768-1-M DIN ISO 2768-2-K:1991 DIN EN ISO 13920-BF	Weight 2 kg	Scale 1:1	
	Material	Size A2		
Drawn 19.08.2024 Oliver Zurkan Checked 20.08.2024 Torsten Eberl Approved 21.08.2024 Reinhard Lotz	Description Bellow-Unit		Drawing No. VC-1451348-A-V01	
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