



Technical Guideline

Number

7.1e

CSVS

Mechanical Acceptance Test for Beam Vacuum Components

Status

2014-11-11

This Technical Guideline is valid for beam vacuum components. For the acceptance test for cryostat vacuum vessels and related components see Technical Guideline F-TG-K-7.16e.

- 1.) Measurement of mechanical tolerances and documentation of measurement results in comparison to required dimensions.
- 2.) Measurement and documentation of required interface dimensions.
- 3.) Measurement and documentation of surface quality of the vacuum surfaces or reference surfaces.
- 4.) Measurement and documentation of surface quality of sealing surfaces.
- 5.) Documentation of material certificates of all procured components.
- 6.) Documentation of certified welders and welding certificates.
- 7.) Unless otherwise specified, each vacuum component must be attached with a non-detachable label according to F-TG-B-0.5e, i.e. by chemical, electrical or laser engraving, electrical etching or impact stamping, comprising the Component ID number (CID) and a QR code tag, respectively, on the outer circumference of a fixed chamber flange. The QR code must contain the CID and may additionally also contain an individual serial number.

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Date:	2014-10-20	Version:	1.2	Page 1 of 1