


TÜV Rheinland InterCert Kft. Industrial Services H-1143 Budapest, Gizella út 51-57. H-1591 Budapest, Pf. 293 tuv@hu.tuv.com tel.: +36-1/461-1100 fax: +36-1/461-1199	Test Report on Design Examination on the basis of Directive 2014/68/EU	 TÜV Rheinland InterCert
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Manufacturer:

TORUS
Acéltermékgyártó Kft.
6100 Kiskunfélegyháza, Csanyi út 71/D-E.

Test Report No.:

E122/0165/2025

Pressure Equipment:

Handlochverschluß 100/150 & 100/155

Drawing No:

Handlochverschluß 100/150
Handlochverschluß 100/155-000


Main data

Material type(s)	S235JR+N (EN 10025-2)	P265GH (EN 10028-2)	
Nominal pressure, bar	4 – 60		
Maximum test pressure, bar	-		
Allowable temperature (TS), °C min/max	-10 / 70	-20 / 150	
Size	100x150 & 100/155		

The design / manufacturing specification: AD 2000
Regulations/Codes: 2014/68/EU PED

Check list	NO	N/A*	YES
The reviewed documents partially meet the requirements of regulation /specification: <input checked="" type="checkbox"/> Directive 2014/68/EU, <input checked="" type="checkbox"/> AD 2000	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The materials of pressure parts were selected on the basis of <input type="checkbox"/> EN Standards, <input type="checkbox"/> European Approval, <input checked="" type="checkbox"/> Particular Material Appraisal (see the Results)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The qualification of welders meets the requirement of <input type="checkbox"/> EN 287	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The qualification of NDE personnel meets the requirement <input type="checkbox"/> EN 473	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Specification of permanent joints meets the requirement <input type="checkbox"/> EN 15614	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Strength calculation meets the requirements of applied code <input checked="" type="checkbox"/> AD 2000	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Restrictions or limitations regarding the documentation See remarks in chapter Results.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Static loads were considered in the strength calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* (N/A – not applicable or not available)

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List of attached documents			
<input checked="" type="checkbox"/>	Assembly drawing	<input type="checkbox"/>	Detail drawings
<input type="checkbox"/>	Item list, bill of materials	<input type="checkbox"/>	Risk analysis
<input checked="" type="checkbox"/>	Strength calculation	<input type="checkbox"/>	Operating instructions
<input type="checkbox"/>	List of referred standards	<input type="checkbox"/>	Technical description
<input type="checkbox"/>	Specifications of welding processes	<input type="checkbox"/>	Special manufacturing processes
<input type="checkbox"/>	Welding plan (on the drawings)	<input type="checkbox"/>	List of welders (certificates)
<input type="checkbox"/>	List of safety devices	<input type="checkbox"/>	List of pressure accessories

The findings and general comments of the review:

1. According to AD-2000 S1 and 1000 startups and shutdowns and a pressure fluctuation range of 20% of the operating pressure are permissible without further proof.
2. The notes and remarks indicated in the drawings and documentation should be considered.
3. Copies of the test report without a written authorization of the notified body are not permitted.
4. The material manufacturer must maintain an appropriate quality-assurance system certified according to Decree 44/2016 (XI.28.) NGM, Annex 3., sec. 4.3 and Directive 2014/68/EU, Annex I., sec. 4.3 by a competent body established in the Community. In case of lack of the appropriate quality-assurance system the conformity of the materials must be approved by a 3.2 certificate according to EN 10204.
5. The validity of this design examination report is 10 years.
6. The minimum permissible temperature of TS = -20°C was considered in the design review with an increased safety factor ($S=4/3 \cdot S$) in accordance with AD 2000 - leaflet W10.

Place: Budapest

Date: 16.01.2025.

TÜV Rheinland InterCert Kft.



Stamp

Erdélyi Zoltán

Attachment: See the list above