

Component Certificate

Issued to declare conformity to

EN13445:2024 and Pressure Equipment Directive 2014/68/EU



This Component Certificate is issued under the sole responsibility of LEOPOLD PARTS ApS. We, LEOPOLD PARTS ApS declare that the design and manufacturing of the Clean Seal Connectors described below is in conformity with EN13445:2024 and essential safety requirements 2.2, 3.1.1, 3.1.5, 4.1, 4.2, 4.3 ref. Annex I of the Pressure Equipment Directive 2014/68/EU.

CSC designation	Height XXX	Clamp standards ZZZ	Drawing references
CSC0250XXX-SMS	15 to 400mm	SMS (DS/SMS3008)	CSC0250XXX-SMS-101, CSCWWWWW-101
CSC0250XXX-DIN	15 to 400mm	DIN (DIN32676)	CSC0250XXX-DIN-101, CSCWWWWW-101
CSC0254XXX-ASM	15 to 400mm	ASM (ASME)	CSC0254XXX-ASM-101, CSCWWWWW-101
CSC0380XXX-SMS	15 to 400mm	SMS (ISO2852/SMS3017 and DS/SMS3008)	CSC0380XXX-SMS-101, CSCWWWWW-102
CSC0400XXX-DIN	15 to 400mm	DIN (DIN32676)	CSC0400XXX-DIN-101, CSCWWWWW-102
CSC0381XXX-ASM	15 to 400mm	ASM (ASME)	CSC0381XXX-ASM-101, CSCWWWWW-102
CSC0510XXX-SMS	15 to 400mm	SMS (ISO2852/SMS3017 and DS/SMS3008)	CSC0510XXX-SMS-101, CSCWWWWW-103
CSC0500XXX-DIN	15 to 400mm	DIN (DIN32676)	CSC0500XXX-DIN-101, CSCWWWWW-103
CSC0508XXX-ASM	15 to 400mm	ASM (ASME)	CSC0508XXX-ASM-101, CSCWWWWW-104
CSC0635XXX-SMS	15 to 400mm	SMS (ISO2852/SMS3017 and DS/SMS3008)	CSC0635XXX-SMS-101, CSCWWWWW-104
CSC0635XXX-ASM	15 to 400mm	ASM (ASME)	CSC0635XXX-ASM-101, CSCWWWWW-104
CSC0761XXX-SMS	15 to 400mm	SMS (ISO2852/SMS3017 and DS/SMS3008)	CSC0761XXX-SMS-101, CSCWWWWW-105
CSC0650XXX-DIN	15 to 400mm	DIN (DIN32676)	CSC0650XXX-DIN-101, CSCWWWWW-105
CSC0762XXX-ASM	15 to 400mm	ASM (ASME)	CSC0762XXX-ASM-101, CSCWWWWW-105
CSC0800XXX-DIN	15 to 400mm	DIN (DIN32676)	CSC0800XXX-DIN-101, CSCWWWWW-107
CSC1016XXX-SMS	15 to 400mm	SMS (ISO2852/SMS3017 and DS/SMS3008)	CSC1016XXX-SMS-101, CSCWWWWW-106
CSC1000XXX-DIN	15 to 400mm	DIN (DIN32676)	CSC1000XXX-DIN-101, CSCWWWWW-106
CSC1016XXX-ASM	15 to 400mm	ASM (ASME)	CSC1016XXX-DIN-101, CSCWWWWW-106
CSC1250XXX-DIN	20 to 400mm	DIN (DIN32676)	CSC1250XXX-DIN-101, CSCWWWWW-108
CSC1500XXX-DIN	20 to 400mm	DIN (DIN32676)	CSC1500XXX-DIN-101, CSCWWWWW-109
Design code		EN13445:2024	
Design pressure (min/max)		-1/16Barg	
Design temperature (min/max)		-100 / 200 C°	
Materials (wetted)		1.4404 or 316L	
Materials (non-wetted)		1.4301 or 304	
Surface roughness, wetted		R _a ≤0,8µm	
Surface roughness, non-wetted		R _a ≤0,8µm	
Approval Body		TÜV NORD Scandinavia AB Gåsebäcksvägen 20 252 27 Helsingborg Sweden	
Design Examination Confirmation		Report No. 81030901 dated 25-09-2025	
Validity		September 2028	
Conditions for use			
1. It is installers/end users responsibility that the Clean Seal Connectors are not used outside above listed design parameters			
2. Clean Seal Connector shall not be exposed to external forces and moments			
3. Sanitary design is only ensured, when using corresponding clamp standards and when installed so drain ability is possible.			
4. Clean Seal Connector adaption to shell/head curvature shall be performed without damaging material properties and component straightness			
5. After adaption to shell/head curvature the minimum height of the Clean Seal Connector shall not be below 15mm or 20mm as applicable			
6. The Clean Seal Connector shall be rotated in position to ensure drain hole facing downwards			
7. Remove locking rings, bolts and nuts before welding			
8. Welding shall be performed according to qualified welding procedures and by certified welders			
9. After welding, straightness shall be verified			
10. Pressure test shall be performed after weld-in in accordance with equipment design criteria i.e. max. test pressure 29Barg			
11. The Clean Seal Connector design is Patent-Pending			
12. CSC and locking ring are covered by EN10204 3.1 material certificates. LEOPOLD PARTS ApS declares that all materials comply with regulation (EC) 1935/204 and (EC) 2023/2006 (product affected parts)			
Date of signature		2025-08-25	
Name and position		Gitte Kildbane, CEO 	