

EC TYPE-EXAMINATION CERTIFICATE

Application of the
Council Directive 97/23/EC of 29 May 1997 on Pressure Equipment, as amended, and Swedish ordinance AFS 1999:4

CERTIFICATE NO.: **13-608257-00**

This Certificate consists of 2 pages

THIS IS TO CERTIFY THAT THE EQUIPMENT

Pressure vessel

WITH THE TYPE DESIGNATION/EQUIPMENT DESCRIPTION

Getinge HS33-60

MANUFACTURED BY

Getinge Skärhamn AB

is found to comply with the requirements in Annex I, Essential Safety Requirements
and EN13445:2009 + C4:2012

The equipment has been examined with respect to the procedure of conformity assessment as
described in Module B

APPLICATIONS

Equipment Category: I

Design Pressure min/max: -1/2.7 bar(g)

Design Temp. range: 0-140 °C

Fluid: Steam

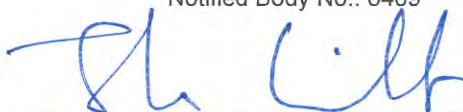
Further details of the product and conditions for the certification are given overleaf.

This Certificate is valid until: 2023-03-21

MÖLNDAL, 2013-03-21

Inspecta Sweden AB

Notified Body No.: 0409



Johan Lidström

Design Review Engineer

Notice: The statement is subject to terms and conditions, if any, overleaf. Any significant changes in design or construction of the product, the quality system or amendments to the AFS 1999:4 (Directive 97/23/EC) or Standards referenced above may render this statement invalid. The product liability rests with the manufacturer or his representative in accordance with the AFS 1999:4 (Directive 97/23/EC), as amended.

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TYPE APPROVAL DOCUMENTS

Drawings:

4839387 rev. -	4837301 rev. I	4839820 rev. -	4839821 rev. -
48320083 rev. -	-----	-----	-----

PMA: DNV PMA Sheet/Plate/Strip according to EN12392 EN AW-5754 condition H 111, DNV PMA A2-70 according to EN-ISO 3506 rev. 1.

WPQR: 271KAB683 rev. 1, DEKRA-1945, DEKRA-1946

SUPPORTING DOCUMENTS

WPS: Trestad Laser AB: WPS 5392, WPS 5407, WPS 5428, WPS 12001

Getinge HS33-100 User manual

- | | | | |
|--|---|-----------------------------|------------------------|
| - Operating instructions ¹⁾ | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | rev. D |
| - Risk analysis ¹⁾ | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | HS33 100 PV riskanalys |

LIMITATIONS

SCOPE OF DESIGN REVIEW

Permanent joining ¹⁾

- | | | |
|--|---|-----------|
| - Welding – methods (procedures) | Yes <input checked="" type="checkbox"/> | See above |
| - Welding – personnel approval | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| - Non destructive testing – personnel approval | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |

Additional load cases

- | | | |
|---|---|--------------------------------|
| - External loads | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| - Fatigue ²⁾ | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | 50 000 cykles -1.0 to 2.3 barg |
| - Design temperature within creep range | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |

TESTS CARRIED OUT

MÖLNDAL, 2013-03-21

Inspecta Sweden AB

Jacob Persson
Design Review Engineer

Notes:

- 1) Items not included in the scope of design review shall be verified by an inspector of the Notified Body that issues the final certificate.
2) If fatigue has not been taken into account, the max. no. of cycles shall be verified according to the relevant design standard.