

# DET NORSKE VERITAS

## APPROVAL OF MANUFACTURER CERTIFICATE

CERTIFICATE NO. T-1457

This is to certify that the Manufacturer  
**FUNKE Wärmeaustauscher Apparatebau GmbH**  
**GRONAU LEINE, Germany**

is approved for the  
**Manufacture of Welded Pressure Vessels, Class I & II**

The approval is granted on condition that  
Det Norske Veritas' Rules for Classification of Ships

are complied with in all respect

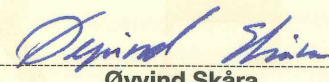
Høvik, 2011-01-03  
for Det Norske Veritas AS



This Certificate is valid until  
**2014-12-31**

  
Marianne Spæren  
Head of Section

DNV local office:  
Essen

  
Øyvind Skåra  
Surveyor

This Certificate is subject to terms and conditions overleaf. Any significant change in production facilities and methods may render this Certificate invalid. If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Certificate No.: T-1457  
File No.: 747.10  
Job Id.: 263.11-000796-2

### Approval basis

The approval has been granted based on the following condition:

1. The maker's qualification documents as required in Det Norske Veritas' Programme for Approval as Manufacturer of Welded Pressure Vessels Class I and II received with letter from DNV, Braunschweig dated 1996.09.04
2. Survey Report BSG 4 0221 w/check list from DNV, Braunschweig dated 1996.09.02
3. Undated letter from DNV Essen including report ESN 02-5847
4. Checklist for renewal of approval of manufacturer dated 2008.01.17
5. Checklist for renewal of approval of manufacturer dated 2010-10-28/29

### Certificate Retention Survey

The approval is valid for four years. To maintain the approved status, the manufacturer must be re-inspected every four years. Application for renewal should be made not later than three months before the expiry date of the certificate.

Any alteration to the approved condition during the period of validity, e.g. method of manufacture, maximum dimensions or conditions of supply, is to be reported to the Society. A re-inspection and / or re-testing may be required when deemed necessary by the Society.