

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Lifting Gear**

with type designation(s)  
**ABA, VLBG, VLBG-PLUS, VLBS**

Issued to

**RUD Ketten Rieger & Dietz GmbH & Co.KG**  
**Aalen, Germany**

is found to comply with

**DNV GL standard DNVGL-ST-0377 – Standard for shipboard lifting appliances**

**DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances**

**Application :**

**Product(s) approved by this certificate is/are accepted for DNVGL product certification.**

Issued at **Hamburg** on **2019-04-17**

This Certificate is valid until **2024-04-16** .

DNV GL local unit: **Augsburg**

for **DNV GL**

Approval Engineer: **Stefan Heuer**

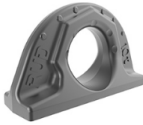
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**Jörg Kallies**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



## Product description

Weldable and boltable forged lifting points type ABA, VLBG, VLBG-PLUS and VLBS

| Type      | Picture                                                                             | SWL / WLL* (screw size-10.9)                                                                       | SF  |
|-----------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----|
| ABA       |    | 0.8t, 1.6t, 3.2t, 5t, 10t, 20t, 31.5t                                                              | 4:1 |
| VLBG      |    | 0.3t (M8), 0.63t (M10), 1t (M12), 1.2t (M14), 1.5t (M16), 2t (M18), 2.5t (M20), 4t (M24), 7t (M36) | 4:1 |
| VLBG-PLUS |  | 6.7t (M30), 8t (M36), 10t (M42), 15t (M42), 20t (M48)                                              | 4:1 |
| VLBS      |  | 1.5t, 2.5t, 4t, 6.7t, 10t, 16t                                                                     | 4:1 |

\*) SWL = Safe Working Load / WLL = Work Load Limit

## Application/Limitation

1. Design temperature: -20°C (max. operating temperature acc. to manufacturer instruction)
2. SWL (WLL): acc. to table for all load directions (see also manufacturer instructions)
3. All materials are to be delivered with 3.1 material certificates acc. to ISO 10474 / EN 10204: - KV min. 27J at -20°C
4. The equipment is to be protected permanently against corrosion, to be checked in regular intervals and renewed if become necessary according to manufacturer's instructions.
5. Connections of the lifting points to the constructions are not part of this Type Approval. The connections and its local strength are responsibility of the user and shall be approved in each individual case. Welding's shall be carried out according to approved Welding Procedure Specifications (WPS) by qualified welders.  
Welding- and tightening instructions of the lifting point manufacturer are to be observed.

Job Id: **262.1-028112-1**  
Certificate No: **TAS0000203**

6. It is the responsibility of the Holder of the Certificate to ensure that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of the Type Approval Certificate.

Considering above application/limitations, the lifting points are approved for use at industrial-, harbour-, sheltered water- and offshore lifting operations.

To obtain a DNV GL Product Certificate (e.g. CG3 or CMC 231), DNVGL must approve the use of the lifting point and its connection for the intended application. Each lifting point shall be load tested in presence of DNV GL according to Table 7-4 (ST-0377) / Table 14-2 (ST-0378).

## **Type Approval documentation**

### **Tests carried out**

Prototype test report witnessed by DNV GL dated 2019-02-07

### **Marking of product**

Each lifting mean shall be marked with at least:

- manufacturer's name or trademark
- nominal load(s) "SWL" / "WLL" in t

Serial number/ batch code, year of construction and reference to this type approval shall be traceable via 3.1 manufacturer certificate.

### **Periodical assessment**

For retention of the Type Approval, a DNV GL Surveyor shall perform a periodical assessment after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

### **END OF CERTIFICATE**