

# APPROVAL CERTIFICATE

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the DNV GL Approval System.

Certificate No. **13 542 - 14 HH**

Company **dipa GmbH**  
**An der Burg Sülz 22**  
**53797 Lohmar, GERMANY**

Product **SINGLE BOSSED CLAMPS**

Type **dipa SINGLE BOSSED CLAMPS**  
**Typ 114 Ni, 114 Ni-GU, Typ 112, 112-Gu**

Technical Data /  
 Application **TECHNICAL DATA**

**Clamp material: DX 51 D + Z 100-275 (1.0226), DIN EN 10346**  
**Sendzimir galvanized**  
**Acoustic insulation: Synthetic rubber)**  
**Temperature range: -40°C up to +110 °C**  
**Size range [mm]: 80 - 400**

#### RANGE OF APPLICATION

- The CLAMPS are approved and may be used in piping systems on ships and other structures classed by DNV GL.
- The permissible operating temperatures are to be in accordance with the instructions of the manufacturer.
- The assembly instruction of the manufacturer is to be observed.

Approval Standard • **VI-7-8-Section 1, Test Requirements for Components and Systems of Mechanical Engineering and Offshore Technology.**

Documents • **Audit Report, dated: 2014-12-05**  
 • **DMT-Test-Report-No.: 20642083-10, Fire Technical Test of a material "HexFlame 55-1006" with the thickness of 2 and 6 mm, dated:2014-03-07**  
 • **MPA-Test-Report-No.: 11004783, dated: 2014-09-18 and 2014-11-05**  
 • **Catalogue 2012**  
 • **DNVGL Ref-No.: 14-041392**

Remarks • **PRODUCTION PLACES, MARKING and REMARKS / LIMITATIONS**  
**see page 2.**

Valid until **~~2019-11-03~~**

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File No. **XI.A.01**

**Hamburg, 2014-11-03**

*not released*

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## PRODUCTION PLACES

dipa GmbH  
An der Burg Sülz 22  
53797 Lohmar  
GERMANY

## MARKING

Each device shall bear legible and durable marking on the body or on a plate fixed securely to the body as follows:

- Manufacturer`s Mark • Type • Nominal Diameter •

## REMARKS / LIMITATIONS

- The use of the CLAMPS outside the range of application is subject to special consideration by DNVGL in each individual case. The installation, operating and maintenance instructions of the manufacturer are to be strictly adhered to.
- The selection of the CLAMPS for the corresponding application and the proper installation is to be in accordance with the current Rules of GL.

Valid until ~~2019-11-03~~  
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Hamburg, 2014-11-03

*not released*