

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 40 816 - 01 HH

Company VOSWINKEL GmbH  
Postfach 15 38  
58531 Meinerzhagen, GERMANY

Product Description HOSE END FITTINGS FOR HYDRAULIC RUBBER HOSES

Type ECOVOS - SWAGE FITTINGS

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application Socket part number: 15011 N DN, 15021 N DN, 15031 N DN, 15033 N DN  
Nipple article number: 100..., 101..., 110..., 111..., 120..., 122..., 123..., 130..., 131..., 132..., 140..., 141..., 142..., 150..., 151..., 155...  
Standard material for socket and nipple: Steel acc. to EN 20277-3 / DIN 1651, galvanised, ZnNi (CrVI free) and stainless steel acc. to DIN 17740 or equivalent.

## RANGE OF APPLICATION

The above mentioned approved ferrules and nipples may be assembled on the following hose types:

Manuli: • 2/3TE, 1/2SN, 1/2ST, 1/2SC, 4SP •

- All fittings used must conform to the requirements of the impulse pressure test according to the relevant hose standard.
- Manufacturers of hose assemblies must be approved by GL.
- The selection of the hose fittings for the corresponding application and the right installation are to be in acc. with the instructions of the manufacturer.

Test Standard • Impulse pressure test according DIN 20 024 respectively ISO 6803

Documents • Test reports  
• Quality assurance manual  
• Quality assurance procedures  
• Data sheet

Remarks None

Valid until 2016-10-03

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Type Approval Symbol



File No. II.D.10

Hamburg, 2013-03-28

Germanischer Lloyd

*Hanspeter Raschle*  
Hanspeter Raschle

*Peter Gierhan*  
Peter Gierhan



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## PRODUCTION PLACES

ECOVOS - SWAGE FITTINGS ( STEEL / STAINLESS STEEL )

VOSWINKEL GmbH  
Neugrünenthal  
58531 Meinerzhagen  
GERMANY

ARMATUREN-ARNDT GmbH  
53842 Troisdorf  
GERMANY

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".