

Type Approval Certificate



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

Certificate No. 12 338 - 98 HH

Company VOSWINKEL GmbH

Postfach 15 38
58531 Meinerzhagen, GERMANY

Product Description HOSE END FITTINGS FOR HYDRAULIC RUBBER HOSES

Type SWAGE FITTINGS
ECOVS - SWAGE FITTINGS

Environmental Category None

Technical Data /
Range of Application TECHNICAL DATA SWAGE FITTINGS
Socket series: 5402, 5425, 5435, 15415, 15445

Nipple series: 1112, 1115, 1222, 1225, 1232, 1235, 1305, 1315, 1325, 1355,
1402, 1405, 1412, 1415, 1505, 1515, 1525, 1555

Standard material for socket and nipple: Steel acc. To EN 10087 (DIN 1651),
galvanised, yellow chromated or equivalent.

TECHNICAL DATA ECOVOS / ECOVOS+ / MULTIVOS - SWAGE FITTINGS

Socket part number: 15011 N DN, 15021 N DN, 15031 N DN, 15033 N DN,
15037 N DN
5415, 5425, 5435, 5445

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.

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

Documents • IHA Test Reports-No.: 006-13, 007-13, 008-13, dated: 2013-11-29
• Impulse Pressure Test Reports
• DNVGL-Ref.-No.: 13-078806

Remarks • PRODUCTION PLACES and RANGE OF APPLICATION see page 2.

Valid until 2018-08-23

Page 1 of 2

File No. II.D.10

Hamburg, 2014-04-09

Type Approval Symbol



Germanischer Lloyd

Olaf Drews

Peter Gierman

Type Approval Certificate



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

Certificate No. **12 338 - 98 HH**

PRODUCTION PLACES SWAGE FITTINGS

SWAGE FITTINGS (STEEL)

VOSWINKEL GmbH
Neugrünenthal
58531 Meinerzhagen
GERMANY

PRODUCTION PLACES ECOVOS - SWAGE FITTINGS

ECOVOS - SWAGE FITTINGS (STEEL / STAINLESS STEEL)

VOSWINKEL GmbH Neugrünenthal 58531 Meinerzhagen GERMANY	ARMATUREN-ARNDT GmbH 53842 Troisdorf GERMANY
--	--

RANGE OF APPLICATION SWAGE FITTINGS and ECOVOS - SWAGE FITTINGS

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

- Manuli: 4SH, R15, 2/3TE, 1/2SN, 1/2ST, 1/2SC, 4SP
 - Semperit: 4SH, R13
 - Parker ITR: R15
 - Alfagomma: 4 SH
 - Knapheide: 1/2 SN
- All fittings used shall conform to the requirements of the impulse pressure test according to the relevant hose standard.
 - Manufacturers of hose assemblies shall 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.

Valid until **2018-08-23**

Page **2 of 2**

File No. **II.D.10**

Hamburg, 2014-04-09

Type Approval Symbol



Germanischer Lloyd


Olaf Drews


Peter Gierfan