

# 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. 44 383 - 07 HH

Company VOSS Fluid GmbH  
Postfach 15 40  
51679 Wipperfürth, GERMANY

Product Description COMPRESSION COUPLINGS 24°, L-AND S-SERIES, MADE OF STEEL

Type VOSS ES-4 CUTTING RING COUPLINGS

Environmental Category • None

Technical Data / TECHNICAL DATA

Range of Application

Coupling materials: carbon steel in accordance with DIN 3859-1,  
table 2 or of higher grades.

Series L ( light )		Series S ( heavy )	
Pipe O.D. [mm]	Nom. Press. [PN]	Pipe O.D. [mm]	Nom. Press. [PN]
6 - 10	500	6 - 10	800
12 - 18	400	12 - 16	630
22 - 42	250	20 - 38	420

## RANGE OF APPLICATION

The aforementioned compression couplings may be used in piping systems of pipe class I to III as well as in non-essential systems under consideration of IACS Req. P2.7, table 8 and GL Rules Chapter 2 - Machinery installation, Section 11.

(continued on page 2)

Test Standard • GL Regulations for the Performance of Type Tests, Chapter 8 and IACS Req. 2001, P2.11 Type Approval of Mechanical Joints (Nov.2001, Rev.1 May 2006).

Documents • Test report no. C101/06 of IMA Dresden • 61070 / 105 to 61070 / 108 issued by WTD 71 • UA.-No.: 4522 issued by Messrs. Voss •  
• Technical Documentation

Remarks • None

Valid until 2017-02-20

Page 1 of 2

File No. II.C.05

Hamburg, 2012-03-21

Type Approval Symbol



Germanischer Lloyd

*Hanspeter Raschle*  
Hanspeter Raschle

*Peter Gierhan*  
Peter Gierhan

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



# 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. 44 383 - 07 HH

## TECHNICAL DATA

- The nominal pressure ratings PN represent the max. allowable working pressure inclusive of pressure peaks.
- Pressure ratings, pressure reductions and permissible operating temperatures are to be in accordance with the instructions of the manufacturer.
- The installation of the VOSS ES-4 system is to be carried out in accordance with the instructions of the manufacturer and the assembly instructions of DIN 3859-2 as applicable.

Allowable temperature range for VOSS ES-4 cutting ring couplings and seal materials:

VOSS ES-4 Steel	-20 [°C] to 120 [°C]
NBR	-35 [°C] to 100 [°C]
FPM / FKM	-25 [°C] to 200 [°C]

In case of combining VOSS ES-4 couplings with several different types of sealing materials, the highest minimum and the lowest maximum temperature figures are applicable.

- The selection of the VOSS ES-4 couplings for the corresponding application and the right installation are to be in accordance with the instructions of the manufacturer.

Valid until 2017-02-20

Page 2 of 2

File No. II.C.05

Hamburg, 2012-03-21

Type Approval Symbol



**Germanischer Lloyd**

*Hanspeter Raschle*  
Hanspeter Raschle

*Peter Gierke*  
Peter Gierke

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