

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. 84 553 - 93 HH

Company VOSS Fluid GmbH
Postfach 15 40
51679 Wipperfürth, GERMANY

Product Description STANDARD AND HIGH PRESSURE FLANGES

Type ZAKO FLANGE COUPLING SYSTEM

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application	SERIES	FLANGE TYPE	NOMINAL PRESSURE	PIPE O.D.
	Standard	SAE-Flanges	PN 250	up to 80 [mm]
	High pressure	SAE-Flanges	PN 400	up to 80 [mm]
	High pressure	Square-Flanges	PN 400	up to 88 [mm]

MATERIALS

Square flanges:	C 45	Screws:	DIN 912-10.9
Flange ring:	42 CrMo4N*	Nuts:	DIN 267-10
O-ring:	NBR 90 Shore A	Pipes:	St 52.4 NBK, DIN 2391-C
			* up to 25 [mm] O.D. 25 CrMo4N

RANGE OF APPLICATION

The VOSS ZAKO flange coupling system is type approved for the use in piping systems according the Rules I - 1 - 2 Machinery Installations, Sec.11, Table 11.13 / 11.14, compression couplings, fire resistant type.
Continuation on page 2.

Test Standard VI-7-8 Regulations for the Performance of Type Tests, Part 6-Test Requirements for Mechanical Components and Equipment: 2008.

Documents

- Test Report Nos.: UB: ET 072/97/1, UB: EZV 001/93/1, UA.-Nr.: 4275
- Test Report No.: 12028 1192, MPA NRW, WTD 71 R1/000 000 7439
- Catalogue 9177003102/200805/03/05.0/2
- Drwg. Nos.: 5 754 1028/1029, 0513171986, 0513181900 and 9117005059

Remarks Refer to page 2.

Valid until 2016-04-11

Page 1 of 2

Type Approval Symbol



File No. II.C.07

Hamburg, 2011-04-12

Germanischer Lloyd

Hanspeter Raschle

Hagen Markus

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

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RANGE OF APPLICATION

Maximum allowable temperature range

Rubber seals:

NBR -35 [°C] to 100 [°C]

Steel qualities:

Stainless Steel -60 [°C] to 200 [°C]

Carbon Steel -20 [°C] to 120 [°C]

The service temperature applicable depends on the rubber seal / steel combination.

For service temperatures above 50°C (stainless steel) the reduction in pressure specified by the manufacturer are to be observed.

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Page **2 of 2**

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