

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. 24 875 - 05 HH

Company Exmar GmbH
Adam-Geck-Str. 3 - 5
61239 Ober-Mörlen, GERMANY

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

Type 24° COMPRESSION FITTINGS ACCORDING TO DIN EN ISO 8434-1 / DIN 2353

Environmental Category None

Technical Data / TECHNICAL DATA (continued on page 2)

Range of Application Materials: 1.4571 or of equivalent material quality
Pressure range:

LIGHT GAUGE (L)		HEAVY GAUGE (S)	
Pipe O.D. [mm]	Nom. Press. [PN]	Pipe O.D. [mm]	Nom. Press. [PN]
6 - 18	315	6 - 14	630
22 - 42	160	16 - 30	400
		38	315

The nominal pressure ratings PN represent the max. allowable working pressure inclusive of pressure peaks. Pressure reductions are required for temperatures of 50 [°C] and above according to the instructions of the manufacturer.

RANGE OF APPLICATION

The above mentioned compression fittings may be used in piping systems of 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 Installations, Section 11 as applicable.

Test Standard • GL Regulations for the Performance of Type Tests, Chapter 8 and IACS Req. 2001, P2.11 Type Approval of Mechanical Joints.

Documents • Technical Documentation
• IMA Test Report No.: C70/04
• Catalogue, Edition 2005

Remarks None

Valid until 2015-01-31

Page 1 of 2

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File No II.C.05

Hamburg, 2010-01-18

Germanischer Lloyd

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TECHNICAL DATA

Allowable temperature range for stainless steel compression couplings and seal materials:

Stainless steel fittings	-55 [°C] to 200 [°C]	If different fitting and sealing materials are used, the lowest temperature as indicated for each material is applicable.
NBR	-35 [°C] to 100 [°C]	
FPM	-25 [°C] to 200 [°C]	
PTFE	-55 [°C] to 200 [°C]	

Compression Couplings acc. to DIN EN ISO 8434-1:

STUD COUPLINGS

GEV, GEV-WD, GEV-NPT, WEV, WEV-NPT, TEV, LEV

TUBE TO TUBE COUPLINGS

GV, WV, TV, KV, GSV*, WSV*

ADJUSTABLE COUPLINGS

ESS, EWV, ETV, ELV, ESWV, ESTV

WELDING COUPLINGS REDUCTION COUPLINGS

ESV** RS

- *Not accepted through fire-resisting divisions and watertight bulkheads and decks.
- **Where "A" class division are penetrated, such penetration shall be tested in accordance with the Fire Test Procedure Code of the IMO A. 754 (18). However, where a pipe penetration is made of steel or equivalent material having a thickness of 3 [mm] or greater and a length of not less than 900 [mm] (preferably 450 [mm] on each side of the division), and there are no openings, testing is not required. Such penetrations shall be suitable insulated by extension of the insulation at the same level of the division. This means that the welding couplings are to be fitted at least with pipes of 450 [mm] length on each end having a wall thickness of 3 [mm] or greater.
- The selection of the pipe couplings for the corresponding application and the right installation are to be in accordance with the instructions of the manufacturer.
- The use of the products outside the range of application underlies the special consideration by Germanischer Lloyd in each individual case.

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Page 2 of 2

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