



Type Approval Certificate

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

Manufacturer	Exmar GmbH
Address	Am Taubenbaum 6, Bad Nauheim, 61231, Germany
Place of Production	SERTO AG Langfeldstrasse 117, Frauenfeld, 8500, Switzerland
Type	Compression Fittings
Description	General purposes stainless steel pipe couplings with cutting ring type ferrules and with and without sealing components which are sensitive to heat, including accessories; 24 ° compression fittings according to DIN EN ISO 8434-1/DIN 2353
Trade Name	see Ratings
Application	General use in marine, offshore and industrial piping systems Restrictions for pipe couplings with sealing components which are sensitive to heat: 1. Starting / control air and CO2 Systems. 2. Water spray or sprinkler systems which are not always filled with water.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, 2023 and IACS Reg. P 2.11

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Ratings

Stud couplings:

GEV, GEV-WD, GEV-NPT, GEV-UNF/UN, GAV, WEV, WEV-NPT, TEV, LEV

Tube to tube couplings:

GV, WV, TV, KV, GSV, WSV

Adjustable couplings:

ESS, EGKO, EWV, EWKO, WEE, ETV, ETKO, ELV, ELKO, ESWV, GRKO

Welding coupling:

GAS, WAS, ESV

Reduction coupling:

RS, RS-WD

Material 1.4571; stainless steel

LIGHT GAUGE (L)		HEAVY GAUGE (S)	
Pipe O.D. [mm]	Design Pressure [bar]	Pipe O.D. [mm]	Design Pressure [bar]
6-10	500	6-10	800
12-18	400	12-16	630
22-42	250	20-38	420

Other Conditions

For deck and bulkhead penetrations see also the requirements of the National Authorities.



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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 88 /20363 (E6)

The Design Appraisal Document HMD 14628-05, Issue No. 4 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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