



Lloyd's
Register

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.

This certificate supersedes certificate number 12/20050 issued on 30.11.2012 which is hereby cancelled.

This certificate is issued to:

PRODUCER	SERTO AG Langfeldstrasse 117 8500 Frauenfeld Switzerland
DESCRIPTION	Stainless steel compression ferrule pipe unions
TYPE	SERTO 5000 Series
APPLICATION	Marine, offshore and industrial use as general purpose compression couplings for use in piping systems carrying liquids and gases compatible with the materials of construction, classed or intended for Classification with Lloyd's Register
STANDARD	- Rules and Regulations for the Classification of Ships, July 2016 - BS4368 Part 4: 1984 – Compression Couplings for Tubes – Specification for Type Test Requirements
REMARKS	Stainless steel couplings are not to be used in oxygen or oxygen enriched systems.

Certificate No.	12 / 20050 (E1)
Issue Date	19 May 2017
Expiry Date	19 May 2022
Sheet	1 of 2


Olaf Schmidt
Hamburg Technical Support Office
Lloyd's Register EMEA

LR031.1.2016.06

Torsten Schröder
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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RATINGS

Pipe outside diameter : (mm)	Nominal working pressure: (bar)
2 to 5	250
6 to 8	200
9,52 to 12	160
12,7 to 18	100
21,3 to 22	64
28	40

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. ENS 21051-08, Issue No. 2, dated 19.05.2017 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 12 / 20050 (E1)

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Sheet 2 of 2


 Olaf Schmidt
 Hamburg Technical Support Office
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Torsten Schröder
 Hamburg Technical Support Office
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Part 1A
Subject: Pipe Fittings
Product: Compression Fittings

Producer/Licence No.	Description of Product				Cert. No.		
	Type	Details of Approval		Application		Remarks	
SERTO AG Langfeldstrasse 117 8500 Frauenfeld Switzerland	SERTO 50000 Series Comprising: 50001, 50002, 50003, 50021, 50030, 50031, 50040, 50041, 50503, 51021, 51100, 51121, 51124, 51221, 51300, 51521, 51600, 51821, 52021, 52121, 52221, 52421, 52621, 53021, 53121, 53221, 53621	Compression ferrule pipe unions of stainless steel. Tube outside diameter (mm): 2 to 5 6 to 8 9,52 to 12 12,7 to 18 21,3 to 22 28		Nominal working pressure (bar): 250 200 160 100 64 40	Marine, offshore and industrial use as general purpose compression couplings for use in piping systems carrying liquids and gases compatible with the materials of construction, classed or intended for Classification with Lloyd's Register	Expires: 19 May 2022 Stainless steel couplings are not to be used in oxygen, or oxygen enriched systems.	12/20050 (E1)