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Certificate No: LR21102885TA Issue Date: 23/03/2021 Expiry Date: 14/01/2026

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 Volz Gruppe GmbH

Address Gartenstraße 6, Deilingen, 78586, Germany

Type Mechanical Pipe Joints

Description Stainless steel (1.4571) and carbon steel (C15, C22, St37-0, St37-2 and

9SMnPB28K) high pressure 24° compression couplings with or without seals sensitive to heat as per Volz Catalogue 04/2015, Pages 18 to 125 and 154 to

162

Trade Name LL (very light gauge), L (light gauge) and S (heavy gauge)

Application For pressure pipes in the marine, offshore and industrial environment.

Restrictions

-Bulkhead couplings are not to be used on watertight bulkheads, Gastight bulkheads and for "A", "B" fire class divisions.

-Couplings with seals sensitive to heat are not acceptable in the following locations:

1. Starting/control air and CO₂ systems.

2. Inside machinery spaces of category A or accommodation spaces for main lines of inert gas systems.

3. Fire main, water spray and sprinkler systems or similar which are not always filled with water.

Olaf Schmidt

Lead Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

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Lloyd's Register Rules and Regulations for the Classification of Ships, July 2020 **Specified Standard**

and IACS P2.11 including wet fire endurance test for couplings with seals

sensitive to heat.

Ratings See Appendix

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: 96/20001 (E6)

The Design Appraisal Document HPC/HMD 5139-00, Issue No. 7 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

RATINGS	Stainless steel couplings with seals sensitive to heat	Pipe Outside Diameter (mm)	Nominal Pressure PN at 20 °C (bar)
	L (light gauge)	6 – 15 18 – 22	250 160
	S (heavy gauge)	28 – 42 6 – 14 16 – 25 30 – 38	100 630 400 250
	Temperature Range FPM (Viton): -25°C to +200°C		
	PT Pressure reduction as	FE (Teflon) : -60°C t Temperature, °C 5	
	per manufacturers recommendations	•	1.5 11 20
	Stainless steel and carbon steel couplings without seals sensitive to heat	Pipe Outside Diameter (mm)	Nominal Pressure PN at 20 °C (bar)
	LL (very light gauge) L (light gauge)	4 – 8 6 – 10 12 – 18 22 – 42	100 500 400 250
	S (heavy gauge)	6 – 10 12 – 16 20 – 38	800 630 420
	Temperature Range	Carbon steel : -40°C to +120°C Stainless steel : -60°C to +400°C	
	Pressure reduction for <u>stainless steel</u> as per manufacturer's recommendations	Temperature, °C 5	4.5 11 20 29 33

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