Certificate No: LR2006670TA
Issue Date: 15/05/2020
Expiry Date: 14/05/2025

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	**Young Nam Metal Co., Ltd.**
Address	12-3, Jillye-ro 74beon-gil, Jillye-myeon, Gimhae-si, Gyeongnam, 50874, Korea, Republic of
Place of Production	Young Nam Metal Co., Ltd. 12-3, Jillye-ro 74beon-gil, Jillye-myeon, Gimhae-si, Gyeongnam, 50874, Korea, Republic of
Type	Pipe Couplings
Description	RCH-S : Repair Clamp Hinge Standard Type RCH-L : Repair Clamp Hinge Long Type RCH-E : Repair Clamp Hinge Elbow Type RCD-E : Repair Clamp Double Elbow Type
Trade Name	Pipe coupling for metallic pipes – Slip type
Application	The mechanical joints can be used the following piping systems in accordance with Part 5, Chapter 12, Section 2, table 12.2.7 of Lloyd's Register (LR) Rules and Regulations for the Classification of Ships and similar offshore and industrial use in piping systems. Marine piping systems for services and locations listed for non-approved fire resistance types in Part 5, Chapter 12, Section 2, Table 12.2.7 of Lloyd's Register (LR) Rules and Regulations for the Classification of Ships and similar offshore

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and industrial use in piping systems.

Specified Standard

LR Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, July 2019
IACS UR P2.11 IACS Req.2001/Rev4. 2016

Ratings

RCH-S/L

Pressure Range	Nominal Diameter	Working Pressure (MPa)
	15A – 25A	1.4
	32A – 40A	1.2
	50A – 65A	1.0
	80A – 150A	0.8
	200A – 250A	0.7
	300A – 350A	0.6
	400A – 450A	0.4
	500A	0.3

RCH-E

Pressure Range	Nominal Diameter	Working Pressure (MPa)
	15A	1.1
	20A - 40A	0.8
	50A –150A	0.7

RCD-E

Pressure Range	Nominal Diameter	Working Pressure (MPa)
	200A-250A	0.6
	300A-400A	0.5
	450A	0.4
	500A	0.3

Temperature Range	EPDM	-30°C to +90 °C
	NBR	-20 °C to +70 °C
	SILICONE	-50 °C to +200 °C

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VITON	-30 °C to +220 °C

Materials are to be suitable for intended service at the pressure-temperature ratings.

Other Conditions

Where the joints are intended to be installed on a ship classed with LR, the following conditions of acceptance will be applicable:-

1) The joints are to be installed and tested in accordance with Part 5, Chapter 13, Section 2 of the Rules and Regulations for the Classification of Ships in so far as applicable.
2) The joints are to be made, installed and tested to appropriate pipe class requirements in accordance with Part 5, Chapter 12 of the Rules and Regulations for the Classification of Ships in so far as applicable.
3) The joints made in austenitic stainless steel material SUS304 are to be excluded from sea water services (see Part 5, Chapter 12, Section 9.3.4 of the Rules and Regulations for the Classification of Ships).
4) In all cases the materials are to be suitable for their intended service conditions.

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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2006670TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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