



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	BMT Co Ltd
Address	17, Sinsajaesandan 2-ro, Jang-an-eup, Gijang-gun,, Busan, 50568, South Korea
Type	Compression Fittings
Description	Double ferrule type and bite type compression tube fittings for stainless pipes
Trade Name	SUPERLOK and Bite Type (DIN 2353)
Application	High pressure tube connections for use in marine, offshore and industrial piping systems with hydraulic system fluids, fuel oil, lubricating oil, fresh water, salt water and gas.
Specified Standard	Lloyd's Register (LR) Rules and Regulations for the Classification of Ships, July 2020
Ratings	Maximum Pressure : 2180 psi (15 MPa) ~ 10800 psi (74.46 MPa) Max. tube outside diameter : 51 mm
Additional Tests	1. Repeated assembly test 2. Burst pressure test 3. Vibration test

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- 4. Pressure pulsation test
- 5. Tightness test (Leak test)

Other Conditions

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

1. The tube fittings 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 tube fittings 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. If technical joints include any components which readily deteriorate in case of fire, fire endurance test is required in accordance with Part 5, Chapter 12, Section 2.12.
4. Maximum Pressures of each tube fittings with each materials are to be indicated for each parts numbers in each parts tables of each catalogues respectively.

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.

Previous Version: LR21251337TA

The Design Appraisal Document BTS/ENG/M234131 and its supplementary Type Approval Terms and Conditions form part of this Certificate.