



NIPPON KAIJI KYOKAI

Certificate

Certificate No.
TA09059M

OF APPROVAL FOR MECHANICAL JOINT

THIS IS TO CERTIFY that the Mechanical joints,

Article : BITE TYPE TUBE FITTINGS
Type : as per attached sheet
Manufacturer : HY-LOK CORPORATION, Busan, Korea

have been approved in accordance with the relevant requirements of 12.3.3, Chapter 12, Part D of the Society's Rules, 2008 edition and IACS UR P2, with

Approval Number : 09 FV 101 B

for use in the ships classed or intended to be classed with the Society subject to the conditions specified in the attached sheet.

This certificate will remain in force until **3rd February 2014**.

Issued on 4th February 2009.


S. Ogawa
General Manager,
Machinery Department



Attached sheet to the Certificate No.TA09059M

- **Type** : BU, BL, BT, BC, BBU, BBL, BMC-R, BLMC, BMC-G, BOM, BLM, BLLM, BOLM, BSLM, BBTM, BRTM, BFC, BBFC, BGC, BLF, BBTF, BRTF, BCA, BJ, BHUM, BHUF, BHBM, BHBF, BHLM, BHLF, BHBLM, BHBLF, BCW, BBUW, BA-R, BA-G, BR, BLA, BBTA, BRTA

• **Material** :

	Steel	Stainless	Brass
Forged Bodies	S20C - S48C	SUS316, 304	C3771
Barstock Bodies	S20C - S48C	SUS316, 304	C3604
Cold Formed Nuts	S10C - S20C	—	—
Barstock Nuts	S20C - S48C	SUS316, 304	C3604
Sleeves	S10C	SUS316, 304	C3604

• **Max Working Temperature** :

Brass	: -20 ~ 200°C
Carbon Steel	: -20 ~ 300°C
Stainless steel	: -20 ~ 300°C

• **Size and Max Working Pressure** :

Tube O.D. (mm)	Max Working Pressure (bar)			Nominal Pipe	Max Working Pressure (bar)	
	Steel	Stainless	Brass		Steel	Stainless
4	250	-	150	-	-	-
6	250	280	150	1/4" (8A)	210	210
8	250	280	150	3/8" (10A)	210	210
10	250	280	144	1/2" (15A)	210	210
12	250	280	118	-	-	-
15	250	280	188	3/4" (20A)	210	210
18	250	280	-	-	-	-
20	250	280	93	1" (25A)	150	150
25	250	280	93	-	-	-
28	250	280	-	-	-	-
30	250	280	-	-	-	-

Attached sheet to the Certificate No. TA09059M

• **Applicable shipboard systems :**

Air, Steam, Fuel oil, Lubrication oil, Hydraulic fluids, Water, Gas

• **Limitation :**

The installation of mechanical joints is to be in accordance with the manufacturer's assembly instructions and the requirements of 12.3.3, Chapter 12, Part D of the Society's Rules.

Where special tools and gauges are required for installation of the joints, these are to be supplied by the manufacturer.

• **Type approval tests carried out :**

Tightness test, Vibration test, Pressure pulsation test, Burst pressure test and Pull out test

• **Reference documents :**

Catalog No. H-220TF (Jul. 2000)

TR-NKTT-TW-080822, TR-NKTT-TG-080822, TR-NKTT-BT-080901,
TR-NKTT-POT-080901, TR-NKTT-VIT-081117, TR-NKTT-VIT-081211,
TR-NKTT-VIT-081229, TR-NKTT-VIT-090122

• **Test :**

The joints used for piping belonging to Group I & II defined by the requirements 12.1.3, Chapter 12, Part D of the Society's Rules are to be subjected to hydraulic test in the presence of the Society's surveyor in accordance with the requirements 12.6.1, Chapter 12, Part D of the Society's Rules

• **Notice :**

Any significant changes in design or construction of the above items may render this certificate invalid.

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