



NIPPON KAIJI KYOKAI

**TYPE APPROVAL CERTIFICATE**

Certificate No. TA18578M

**This is to certify** that the undernoted products have been approved in accordance with the requirements 12.3.3, Chapt.12, Part D of “Rules for the Survey and Construction of Steel Ships” and Chapt.9, Part 6 “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use”.

This certificate is issued to

Manufacturer

**Hy-lok Corporation, Busan, KOREA**

Product description

**BITE TYPE TUBE FITTINGS**

Type designations

**as per the attached sheet**

Approval No.

**09FV101B**

Valid until

**3rd February 2024**

This certificate is subject to the conditions specified in the attached sheets.

Issued at Tokyo on 10th January 2019.

T. Shimada  
General Manager  
Machinery Department

- **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	-	-	-	-

- **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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