

## TYPE APPROVAL CERTIFICATE

Certificate No.

:TKY00267-HS001

Initial Approval: 29th August, 2000

**Product** 

: Flexible Metal Hose

Manufacturer

: TOFLE Co., Inc.

886-1, Aza-Shiragami, Kawakami, Hagi-city, Yamaguchi, 758-0141, Japan

Product Description: Type: TF-3000, TF-NW, TF-NW(MONEL), TF-UFO, TF-TYPE

" See Appendix 1 "

Approval Condition: "See Appendix 1"

that the above-mentioned product has been approved THIS IS TO CERTIFY in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 5, Ch. 6, Sec. 1 of the Rules for Classification, Steel Ships.

This Certificate is valid until 28th August, 2025 Issued at Tokyo, Japan on 28th July, 2020



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authoritication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No (ME20027075161) and certificate No.(TKY00267 -HS001).



KOREAN REGISTER

General Manager of Tokyo Branch Office

Note: 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.

- 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
- 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
- 4. Should the specified rules, regulations or stackeds be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

### Appendix 1

# **Product Description and/or Approval Condition**

Certificate No:

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Date of Issue: 28th July, 2020

### Product Description ;

Type F	Kind of Tuid	Nominal Dia.(A)	Design Press.(MPa)	Drawing No.
TF-3000 (Flange Type)	Fuel oil Lub. oil Fresh water Sea water Compressed air	10 15 20 25 32 40 50	6. 37 4. 41 3. 92 3. 92 2. 94 2. 45 1. 96	FFD-1400-A FFD-1410-A LPD-0150-A JJD-0070-A
TF-3000 (Thread Type)	Fuel oil	10, 15	2. 74	GSL-70080-A
TF-NW (Flange Type)	Fuel oil Lub. oil Fresh water Sea water Compressed air	20 25 32 40 50 65 80 100 125 150 200 250 300	4. 18 3. 76 2. 70 2. 04 1. 46 2. 00 1. 30 1. 08 1. 38 1. 10 1. 12 1. 12 0. 84	AAB-1410-A AAB-1420-A
TF-NW (MONEL) (Flange Type)	Sea water	50 65 80 100	1. 46 2. 00 1. 30 1. 08	EFR-70561-A
TF-UFO (Flange Type)	Fuel oil Lub. oil Fresh water Compressed air	8 ~ 50	3. 92	FFD-0170-A SL-86X28-32
TF-TYPE (Flange Type)	Fuel oil Lub. oil Fresh water Compressed air	65	2. 94	NFR-70006-A
-	Air	65	0. 98	DFR-70203-A

#### 2. Approval Conditions ;

- 1) Individual Product Certification is required in case of the hoses belonging to Class I or II piping system.
- 2) The hoses are to be used as short as possible in the length of the permanent piping system where flexibility is required.
- 3) Flexible Hoses should be marked with the following items.
  Hose manufacturer's name of trademark
  Date of manufacture (Month/Year)

  - Designation Type
  - Nominal diameter, Pressure rating, Temperature rating

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