



中國驗船中心
CR Classification Society

Certificate No. Q-03-29

Date Aug. 12, 2021

型式認可證書

TYPE APPROVAL CERTIFICATE
of
METAL FLEXIBLE HOSE

This is to certify that the **Products** manufactured by the works hereunder mentioned has been approved by this Society in accordance with the requirements given in: Part XI Chapter 16 in the “RULES FOR THE CONSTRUCTION AND CLASSIFICATION OF STEEL SHIPS” as an approved type for use in ships classed or intended to be classed with the Society.

Manufacturer : Tofle Co., Inc.
1-6-16, Honmachi, Chuo-ku, Osaka
〒541-0053, Japan

Approved Products : Stainless Steel Flexible Hose with End Fitting
Type : TF-3000

Drawing No. : MWN800231-A, WC10088-B, WC10089-A, WC10090-A,
WC10091-A, WC10092-A, WC10093-A

Nominal Bore : 10A, 15A, 20A, 25A, 32A, 40A, 50A

Design Pressure(MPa) : 7.2~4.7, 4.5~3.0, 3.2~2.1, 4.2~2.8, 2.5~1.6, 2.8~1.8, 1.6~1.1 (Single)
7.5~4.9, 6.0~4.0, 5.0~3.3, 4.4~2.9, 3.2~2.1, 3.8~2.5, 3.2~2.1 (Double)

Design Temperature : 40°C~300°C

Material : Stainless Steel (SUS 304, SUS316L)

Working Fluid : Fresh water, Steam, Fuel oil, Lub. oil, Hyd. oil, Comp. air, Thermal oil,
Sea water

Approved Condition : Test for Products : Each hose with end fitting is to be subjected for a hydrostatical test in the presence of the surveyor at the pressure not less than 1.5 times of the design pressure of the piping system in service.

This approval is valid until **June 30, 2026**

Issued by CR Classification Society S.A.
on behalf of CR Classification Society



P.C. Chang, Representative in Japan
CR Classification Society