



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE

Certificate No. TA21249M

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: | VOSS Fluid GmbH |
| Place of manufacturer: | Lüdenscheider Str. 52-54, 51688 Wipperfürth GERMANY |
| Product description | Compression Couplings |
| Type designation(s): | VOSSRing^M Cutting Ring Couplings |
| Approval No.: | 16FV106 |
| Valid until: | 15 December 2026 |

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 16 September 2021.



T. Shimada
General Manager
Machinery Department

• **Particulars and conditions:**

| Type | Nominal Dia. (φ) | Pressure Nominal (bar) | Temperature range for tube couplings with metallic seal (°C) | Temperature range for carbon steel male stud couplings of type PEFLEX, UN/UNF, ISO 6149 with soft seal (°C) |
|----------|------------------|------------------------|---|---|
| Series L | 6 | 500 | Carbon steel: -20 up to +120 Lowest ambient temperature: -40 | -20 up to +100 (NBR) -20 up to +200 (FKM) |
| | 8 | | | |
| | 10 | | | |
| | 12 | 400 | | |
| | 15 | | | |
| | 18 | | | |
| | 22 | 250 | | |
| | 28 | | | |
| | 35 | | | |
| 42 | | | | |
| Series S | 6 | 800 | | |
| | 8 | | | |
| | 10 | | | |
| | 12 | 630 | | |
| | 14 | | | |
| | 16 | | | |
| | 20 | 420 | | |
| | 25 | | | |
| | 30 | | | |
| | 38 | | | |

• **Documents:**

Drawings: Cutting ring 1S and VOSSRing^M (MSR4) L/S6, L18, L42, S16, S38

Test Report: Test reports of fire resistance tests issued by Dr. Bäumer, Herford laboratory

IMA Dresden test report K057/14, Order No.: 304224011

VOSS Fluid test report 2014_466

• **Type Approval Test:**

Gas Pressure, Tightness, Burst, Vacuum, Pull-out, Combined Vibration and Pressure pulsation, Fire resistance according to ISO 19921/22, Repeated assembly

• **Notice :**

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

- The End -