Certificate No: LR2627790TA
Issue Date: 14/01/2025
Expiry Date: 13/01/2030

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

| | |
|---|---|
| **Manufacturer** | **GOMOTEC Co., Ltd.** |
| **Address** | 279, Mieumsandan-ro, Gangseo-gu, Busan, 46744, South Korea |
| **Type** | Dual plate check valve |
| **Description** | Dual plate check valve for metal seat<br>Dual plate check valve for resilient seat |
| **Trade Name** | DC Series |
| **Application** | Marine Piping Systems:-<br>• Cargo oil systems<br>• Bilge systems<br>• Sea water systems<br>• Fresh water systems<br>• Inert gas systems<br>• Fuel oil systems<br>• Lubricating systems<br>• Tank cleaning systems<br>• Cooling water systems<br>Note : see OTHER CONDITIONS below. |
| **Specified Standard** | Lloyd's Register Rules and Regulations for Classification of Ships, Part 5, Chapter 12, Section 5, July 2024 |

Downloaded Copy

**Torsten Schroeder**
Engineering - Piping/ Decarbonisation - Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

# Type Approval Certificate

**Ratings**

Nominal Pipe Diameter (inch): 2, 2½, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24
Max. working pressure:
12.1bar for Grey Cast Iron (A126 Class A)
13.8 bar (2”-12”), 10.3 bar (14”-24”) for Grey Cast Iron (A126 Class B)
17 bar for Ductile cast iron (A536 Gr.65-45-12)
19.6 bar for Carbon steel casting (A216 WCB)
19 bar for stainless steel (A351 CF8)

Specified Pipe Flange Design : DIN PN10, PN 16,
ANSI CLASS 125, 150
JIS 5K, 10K, 16K, 20K

Temperature range (°C) : Max. 200 (Metal seat), Max. 100 (Resilient Seat)

**Additional Tests**

The following tests carried out on representative samples:
1) Shell test
2) Seat test
3) Burst test
4) Operating test

**Other Conditions**

Where the valves are intended to be installed on a ship classed with LR, their positions are to be indicated on any plans of piping systems and arrangements which are required to be submitted for classification approval and final acceptance of their applications of their applications to be confirmed thereon, and the following conditions should also be observed: -
1) The valves are to be made, installed and tested in accordance with Part 5, Chapter 12 of the Rules and Regulations for the Classification of Ships.
2) In all cases the materials are to be suitable for their intended service conditions.
3) Grey cast iron is not to be used for valves handling media having temperatures above 220°C or piping subject to pressure shock, excessive strains or vibrations.
4) Grey cast iron is not to be used for valves in flammable oil systems where design pressure exceed 7 bar or the design operating temperature is greater than 60°C.

Downloaded Copy



Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

# Type Approval Certificate

5) The valves are not to be used in spaces where leakage or failure caused by fire could result in fire spread, flooding or the loss of an essential service.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** LR2004051TA

The Design Appraisal Document LR2627790TA_DAD and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy



Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.