



Work Order: WO0237971  
Product Design Assessment (PDA)  
"Valve, Check"  
PDA No. 25-0237971-PDA

Attention: Mr. Chang-Hyun Lee, GOMOTEC CO., LTD. (WCN : 488472)

The documents shown in the attached list are reviewed in accordance with the applicable requirements indicated in the PDA along with the service restrictions and comments.

We recommend that you monitor the ABS Rules, Guides and other standards used in the Assessment. These Rules, Guides and standards often change on an annual basis, and you must comply with the new Rules, Guides and standards in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules, Guides or specifications.

Additionally, we acknowledge the PDA request form warranting that the materials used in the product are free from asbestos.

For any clarifications, please contact Mr. Hyun-Dae Lee at +82-51-460-4131, ([hdlee@eagle.org](mailto:hdlee@eagle.org)).

Very truly yours,

Yun-Hak(Ford) Baek  
Director, Engineering

Electronically Signed by: Seong-Ju Kang

Documents List

Drawing No.	Rev. No.	Title	Status
-	8	Valve, Check	Approved

Electronic copies of the documents, appropriately stamped, are available in the ABS Client Portal.

Include: PDA Certificate



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

25-0237971-PDA  
31-Mar-2025  
30-Mar-2030  
Busan Engineering Services

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**GOMOTEC CO., LTD**

located at

**279, MIEUMSANDAN-RO, GANGSEO-GU, , BUSAN, Korea,  
Republic of**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

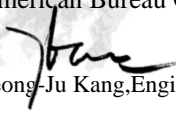
**Product:** Valve, Check  
**Model:** Wafer type dual plate check valve, Lug type dual plate check valve, Flange type dual plate check valve  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 30/Mar/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

  
Seong-Ju Kang, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**GOMOTEC CO., LTD**

279, MIEUMSANDAN-RO, GANGSEO-GU

BUSAN

Korea, Republic of

Telephone: 82-55-345-9790

Fax: 82-55-345-9793

Email: chlee@gomotec.com

Web:

**Tier: 2 - PDA Issued**

---

**Product:** Valve, Check

**Model:** Wafer type dual plate check valve, Lug type dual plate check valve, Flange type dual plate check valve

**Endorsements:**

**Intended Service:**

Cargo Oil System, Bilge, Ballast, Sea Water, Fresh Water, Air Venting, Inert Gas, Heavy Fuel Oil, Diesel Oil, Lube Oil

**Description:**

1. Wafer type dual plate check valve, Rubber lining type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A126 Class B, A536 Gr 65-45-12

2. Lug type dual plate check valve, Rubber lining type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A126 Class B, A536 Gr 65-45-12

3. Flange type dual plate check valve, Rubber lining type

1) Nominal Diameter : 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A126 Class B, A536 Gr 65-45-12

4. Wafer type dual plate check valve, Metal seat type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A351 CF8

5. Lug type dual plate check valve, Metal seat type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A351 CF8

6. Flange type dual plate check valve, Metal seat type

1) Nominal Diameter : 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A351 CF8

7. Wafer type dual plate check valve, Seat overlay type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A216 WCB

8. Lug type dual plate check valve, Seat overlay type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A216 WCB

9. Flange type dual plate check valve, Seat overlay type

1) Nominal Diameter : 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A216 WCB

10. Wafer type dual plate check valve, Rubber seat type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

2) Body : A536Gr 65-45-12

11. Lug type dual plate check valve, Rubber seat type

1) Nominal Diameter : 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12",14", 16", 18", 20", 24"

**GOMOTEC CO., LTD**

279, MIEUMSANDAN-RO, GANGSEO-GU

BUSAN

Korea, Republic of

Telephone: 82-55-345-9790

Fax: 82-55-345-9793

Email: chlee@gomotec.com

Web:

**Tier: 2 - PDA Issued**

---

2) Body : A536Gr 65-45-12

12. Flange type dual plate check valve, Rubber seat type

1) Nominal Diameter : 8", 10", 12", 14", 16", 18", 20", 24"

2) Body : A536Gr 65-45-12

**Rating:**

1. Wafer type dual plate check valve, Rubber lining type

a. Design Pressure : 13.8 bar.g (NPS 2-12), 10.3 bar.g (NPS 14-24)

b. Design Temperature : -18 ~ 60 deg.C

2. Lug type dual plate check valve, Rubber lining type

a. Design Pressure : 13.8 bar.g (NPS 2-12), 10.3 bar.g (NPS 14-24)

b. Design Temperature : -18 ~ 60 deg.C

3. Flange type dual plate check valve, Rubber lining type

a. Design Pressure : 13.8 bar.g (NPS 2-12), 10.3 bar.g (NPS 14-24)

b. Design Temperature : -18 ~ 60 deg.C

4. Wafer type dual plate check valve, Metal seat type

a. Design Pressure : 19 bar.g (CLASS 150), 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 20bar.g(20K)

b. Design Temperature : -18 ~ 538 deg.C

5. Lug type dual plate check valve, Metal seat type

a. Design Pressure : 19 bar.g (CLASS 150), 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 20bar.g(20K)

b. Design Temperature : -18 ~ 538 deg.C

6. Flange type dual plate check valve, Metal seat type

a. Design Pressure : 19 bar.g (CLASS 150), 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 20bar.g(20K)

b. Design Temperature : -18 ~ 538 deg.C

7. Wafer type dual plate check valve, Seat overlay type

a. Design Pressure : 19.6 bar.g (CLASS 150), 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 20bar.g(20K)

b. Design Temperature : -18 ~ 425 deg.C

8. Lug type dual plate check valve, Seat overlay type

a. Design Pressure : 19.6 bar.g (CLASS 150), 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 20bar.g(20K)

b. Design Temperature : -18 ~ 425 deg.C

9. Flange type dual plate check valve, Seat overlay type

a. Design Pressure : 19.6 bar.g (CLASS 150), 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 20bar.g(20K)

b. Design Temperature : -18 ~ 425 deg.C

10. Wafer type dual plate check valve, Rubber seat type

a. Design Pressure : 14 bar.g, 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 17bar.g(20K)

b. Design Temperature : -18 ~ 60 deg.C

11. Lug type dual plate check valve, Rubber seat type

a. Design Pressure : 14 bar.g, 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 17bar.g(20K)

b. Design Temperature : -18 ~ 60 deg.C

12. Flange type dual plate check valve, Rubber seat type

a. Design Pressure : 14 bar.g, 5 bar.g (5K) , 10bar.g (10K, PN10), 16bar.g(16K, PN16), 17bar.g(20K)

**GOMOTEC CO., LTD**

279, MIEUMSANDAN-RO, GANGSEO-GU

BUSAN

Korea, Republic of

Telephone: 82-55-345-9790

Fax: 82-55-345-9793

Email: chlee@gomotec.com

Web:

**Tier: 2 - PDA Issued**

---

b. Design Temperature : -18 ~ 60 deg.C

**Service Restriction:**

1. Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. Materials are to be suitable for intended service at the valve's pressure-temperature rating.
3. This product is not to be used as a component of any fire-fighting piping system since a fire test is not conducted.
4. Temperature rating of seat material
  - 1) NBR : -18 ~ 100 deg.C
  - 2) EPDM : -18 ~ 60 deg.C
  - 3) FKM(VITON) : -18 ~ 220 deg.C
5. Wafer type butterfly valves are not acceptable to be used as shell valves in accordance with 4-6-2/9.13.2 of 2025 MVR
6. Rubber expansion joints with beaded end flange are not to be installed next to wafer type check or butterfly valves in accordance with 4-6-2/9.5 vi) of 2025 MVR.
7. Cast iron is to be used in accordance with 4-6-2/3.1.4 of 2025 MVR.
8. Where products are intended for shell valve, the valve assembly is to be subjected to a hydrostatic seat leakage test. The test is to be performed with closed valve with the other end open to atmosphere. The pressure is to be applied independently on each side. Test pressure is not to be less than 5 bar (5.1 kgf/cm<sup>2</sup>, 72.5 psi). Holding time is 5 minutes for all sizes.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Drawing Name : Dual Plate Check Valve

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 30/Mar/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**STANDARDS****ABS Rules:**

2025 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.15

**National:**

NA

**International:**

NA

**GOMOTEC CO., LTD**

279, MIEUMSANDAN-RO, GANGSEO-GU

BUSAN

Korea, Republic of

Telephone: 82-55-345-9790

Fax: 82-55-345-9793

Email: chlee@gomotec.com

Web:

**Tier: 2 - PDA Issued**

---

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA