

中国船级社南京分社
CCS Nanjing Branch

产品图纸/技术文件批准通知书

Letter/Notice of Approved Drawing/Document

图纸/文件批准号: NJ08A017936

Drawing/Document Approval No.: NJ08A01793

主送: KEYSTONE VALVE(Korea)Ltd.

日期: 2009年1月20日

To: KEYSTONE VALVE(Korea)Ltd.

Date: Jan. 20, 2009

抄送: CCS PUSAN OFFICE

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产品明细:

蝶阀/Butterfly valve
型号/Model

: as follows

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CHINA CLASSIFICATION SOCIETY

PLAN APPROVAL CENTER (NANJING)

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1. Product Particulars:

Name of product: **Butterfly Valve**

- 1) 、 **Model:** Fig.1 **Type:** Wafer Type **Size range :** DN50~1000
Drawing No: 001-000-022~001-000-029 **Rated Pressure:** 6 bar,
Drawing No: 001-000-030~001-000-037 **Rated Pressure:** 10 bar
- 2) 、 **Model:** Fig.2 **Type:** Lug Type
Drawing No: 002-000-034~002-000-045 **Rated Pressure:** 6 bar **Size range :** DN50~900
Drawing No: 002-000-046~002-000-057 **Rated Pressure:** 10 bar **Size range :** DN50~900
Material: For Model Fig.1/2
Body: Cast Iron: ASTM A126 Class B/ JIS G5501 FC200/FC250;
Ductile Iron: ASTM A536 Grade 65-45-12 / JIS G5502 FCD400/FCD450;
Steel Casting: ASTM A216 Grade WCB / JIS G5101 SC480;
Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Disc: Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Al-Bronze: ASTM B148-95200 / JIS H5120 CAC701;
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Stem: Stainless Steel: ASTM A564 TYPE630 / JIS G4303 SUS630
Stainless Steel: ASTM A276 TYPE304/316 /316L JIS G4303 SUS304/316/316L
MONEL K-400: ASTM B164; MONEL K-500: QQ-N-286E
Seat: EPDM / Buna-N / VITON; **Packing:** EPDM / Buna-N; **Bushing:** Acetal
- 3) 、 **Model:** Fig.129 **Type:** Lug Type **Size range :** DN50~500
Drawing No: 129-000-005~129-000-008 **Rated Pressure:** 10 bar
Drawing No: 129-000-009~129-000-012 **Rated Pressure:** 16 bar
- 4) 、 **Model:** Fig.139/239 **Type:** Wafer Type **Size range :** DN50~500
Drawing No: 139-000-003~139-000-004, 239-000-004~239-000-005 **Rated Pressure:** 10 bar
Drawing No: 139-000-005~139-000-006, 239-000-006~239-000-007 **Rated Pressure:** 16 bar
Material: For Model Fig. 139/239/129
Body: Ductile Iron: ASTM A536 Grade 65-45-12 / JIS G5502 FCD400/FCD450;
Steel Casting: ASTM A216 Grade WCB / JIS G5101 SC480;
Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Disc: Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Al-Bronze: ASTM B148-95200 / JIS H5120 CAC701;
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Stem: Stainless Steel: ASTM A564 TYPE630 / JIS G4303 SUS630
Stainless Steel: ASTM A276 TYPE304/316 /316L JIS G4303 SUS304/316 /316L
MONEL K-400: ASTM B164; MONEL K-500: QQ-N-286E
Seat: EPDM / Buna-N / VITON; **Packing:** EPDM / Buna-N; **Bushing:** Acetal
- 5) 、 **Model:** Fig.360 **Type:** Wafer Type **Size range :** DN50~900
Drawing No: 360-000-070~360-000-109 **Rated Pressure:** 10 bar
Drawing No: 360-000-110~360-000-149 **Rated Pressure:** 16 bar



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- 6) 、 **Model:** Fig.362 **Type:** Lug Type **Size range :** DN50~900
Drawing No: 362-000-068~362-000-107 **Rated Pressure:** 10 bar
Drawing No: 362-000-108~362-000-147 **Rated Pressure:** 16 bar
- 7) 、 **Model:** Fig.370 **Type:** Wafer Type **Size range :** DN50~600
Drawing No: 370-000-029~370-000-084 **Rated Pressure:** 10 bar
Drawing No: 370-000-085~370-000-140 **Rated Pressure:** 16 bar
Drawing No: 370-000-141~370-000-196 **Rated Pressure:** 25 bar
- 8) 、 **Model:** Fig.372 **Type:** Lug Type **Size range :** DN50~600
Drawing No: 372-000-025~372-000-072 **Rated Pressure:** 10 bar
Drawing No: 372-000-073~372-000-120 **Rated Pressure:** 16 bar
Drawing No: 372-000-121~372-000-168 **Rated Pressure:** 25 bar
Material: For Model Fig. 360/362; 370/372
Body: Ductile Iron: ASTM A536 Grade 65-45-12 / JIS G5502 FCD400/FCD450;
Steel Casting: ASTM A216 Grade WCB / JIS G5101 SC480;
Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Disc: Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Al-Bronze: ASTM B148-95200 / JIS H5120 CAC701;
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Stem: Stainless Steel: ASTM A564 TYPE630 / JIS G4303 SUS630
Stainless steel: ASTM A276 TYPE304/316/316L / JIS G4303 SUS304/316/316L
MONEL K-400: ASTM B164, MONEL K-500: QQ-N-286E
Seat: RTFE, Viton , Buna-N(NBR) ,EPDM;
Stainless Steel: ASTM A240 Type 316 / JIS G4304 SUS316
Packing Set: PTFE , Graphite ;
Bearing: RTFE / Fiberglass Epoxy; 316SS Nitrided
- 9) 、 **Model:** Fig. V11 **Type:** Flanged Type **Size range:** DN65~1800
Drawing No: V11-000-035~V11-000-066 **Rated Pressure:** 6 bar
Drawing No: V11-000-067~V11-000-098 **Rated Pressure:** 10 bar
Material: For Model Fig. V11
Body: Cast Iron: ASTM A126 Class B/ JIS G5501 FC200/FC250;
Ductile Iron: ASTM A536 Grade 65-45-12 / JIS G5502 FCD400/FCD450;
Steel Casting: ASTM A216 Grade WCB / JIS G5101 SC480;
Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Disc: Stainless Steel Casting: ASTM A351 CF8/CF8M/CF3M / JIS G5121 SCS13A/14A/16A
Al-Bronze: ASTM B148-95200 / JIS H5120 CAC701;
Ni-Al-Bronze: ASTM B148-C95800/ JIS H5120 CAC703;
Stem: Stainless Steel: ASTM A564 TYPE630 / JIS G4303 SUS630
Stainless Steel: ASTM A276 TYPE304/316 /316L JIS G4303 SUS304/316 /316L
MONEL K-400: ASTM B164; MONEL K-500: QQ-N-286E
Seat: EPDM / Buna-N / VITON; **Packing:** EPDM / Buna-N; **Bearing:** PTFE on Steel **Bushing:**
Acetal



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Temperature range: According to the materials of Seat, Packing and Bearing ect..

Reference Standard:

JIS F 7480:1996 SHIPBUILDING-RUBBER SEAT BUTTERFLY VALVES
 ASME/ANSI B16.34:1996 Valves-Flanged, Threaded, and Welding End
 MSS-SP-67 Butterfly Valves
 MSS SP-68 High Pressure Butterfly Valves with Offset Design
 API-609 Butterfly Valves
 API-607 Fire Test for Seat Quarter-turn Valves

2. Technical Specification:

CCS Rules: "Rules and Regulations For the Classification of Sea-going Steel Ships "(2006) & its amendments Part 3, Chapter 2.

3. Remarks

- 1). Every type of valves shall have a criterion, such as one of the above mentioned Reference Standards, for design, manufacture and test. The test items and methods of the Inspection and Test Procedure for the products shall be met with the requirements of the criterion.
- 2). The approval does not include any operating gear for remote control of the valves.

4. Intended For:


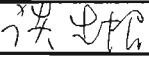
Piping systems of ship. But:

1. The materials for body, disc, stem, packing and seat are to be suitable for intended service, and shall not adversely affect the substance (s) intended to be transported.
2. Pay attention to the restricts of CCS Rules Part 3, Chapter 2 for the valves use in different piping systems, such as different piping class, pressure, temperature, valve's configuration, materials and fluid medium ect..

The drawings and documents listed in the attached "Return List" have been examined and are found to be in compliance with the relevant requirements of technical specification. The approval is hereby given with the approval No. is :NJ08A01793. Ono set of the drawings and documents bearing this Society's stamp of "Approved" or "Noted" are hereby returned. Please check for acceptance according to the return list.

The following is attached herewith:

1. Return list of drawings/documents of marine products
2. One set of returned drawings/documents

Examined by:  (Li Ning)	Issued by: China Classification Society Plan Approval Center (Nanjing)
Approved by:  (Tan shenggen)	Date of issue: Jan. 20, 2009
China Classification Society Add: CCS Mansion, 9 Dongzhimen Nan Da Jie, Beijing, China Tel.: (0086) 10-58112288 Fax: (0086) 10-58112811 Postcard: 100007	China Classification Society Plan Approval Center (Nanjing) Add: 12, Jiang Jia Yuan, Nanjing, P. R. China Tel.: (0086) 25-6668571, 58500006 Fax: (0086) 25-58818565 Postcard: 210011 E-mail: nli@ccs.org.cn

