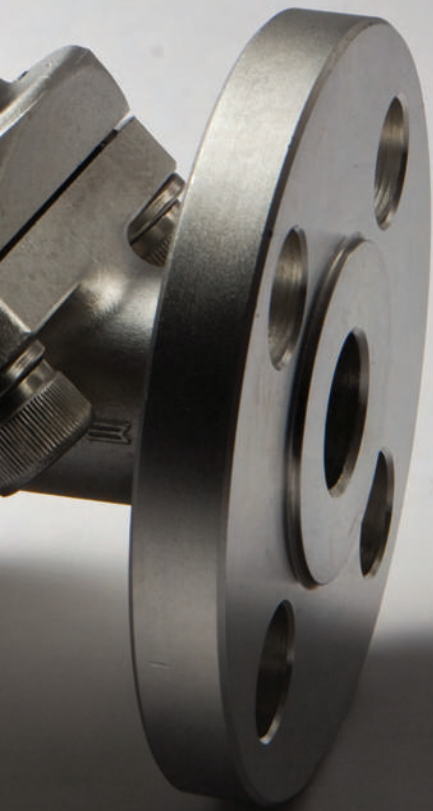
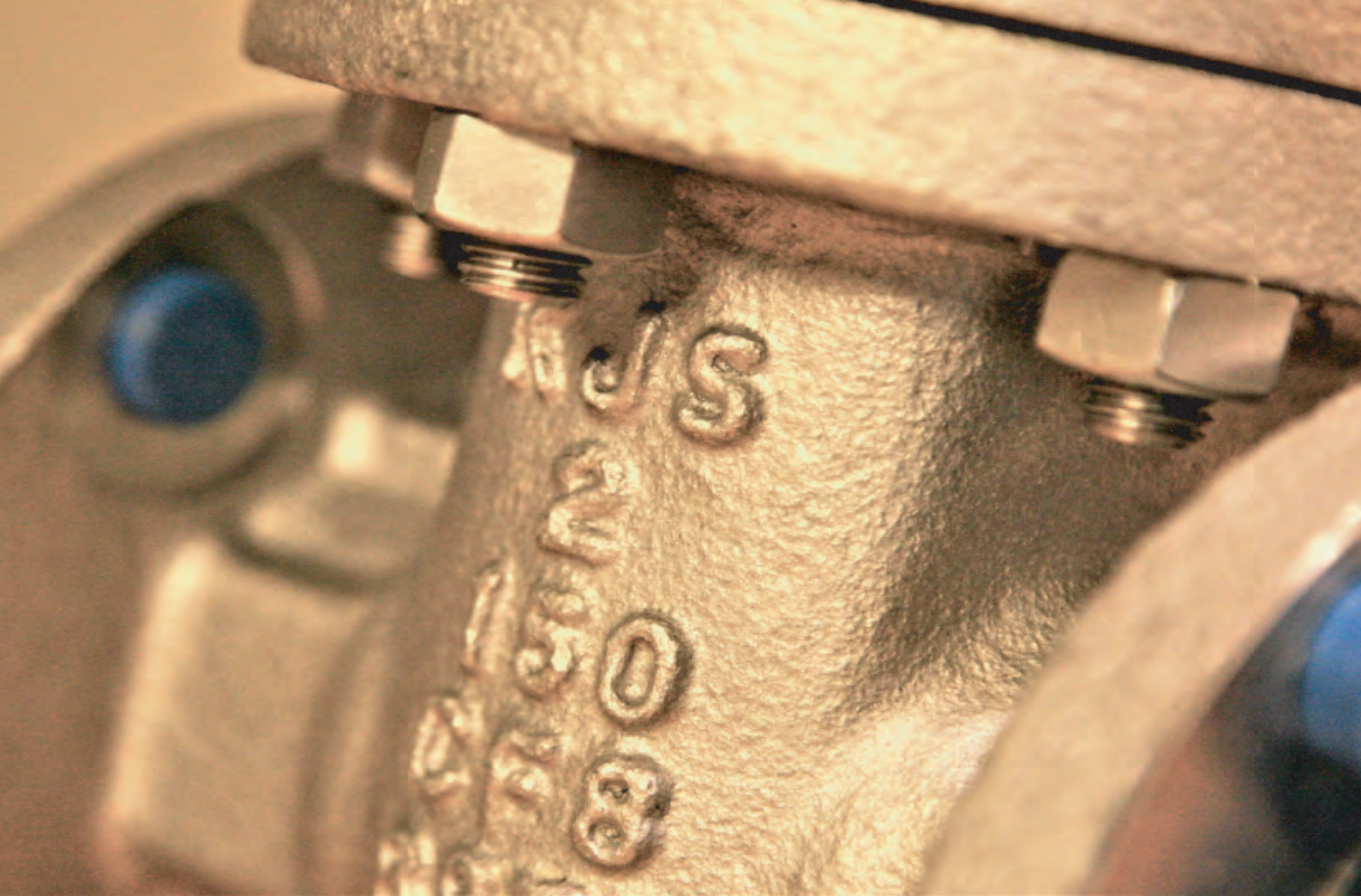


Pre-Qualification





CONTENTS

Profile

- History
- Finance
- Organization
- Production Range
- Qualification
- Facilities

Reference

Vendor Approval List

PROFILE | Contact

Main Office and Factory & Foundry

328 Ungnam-Ro Sungsan-Gu, Changwon City, Gyungsangnam-Do, South Korea

tel: +82 55 212 9200

fax: +82 55 285 1666

sales@kjs.co.kr

<http://www.kjs.co.kr>



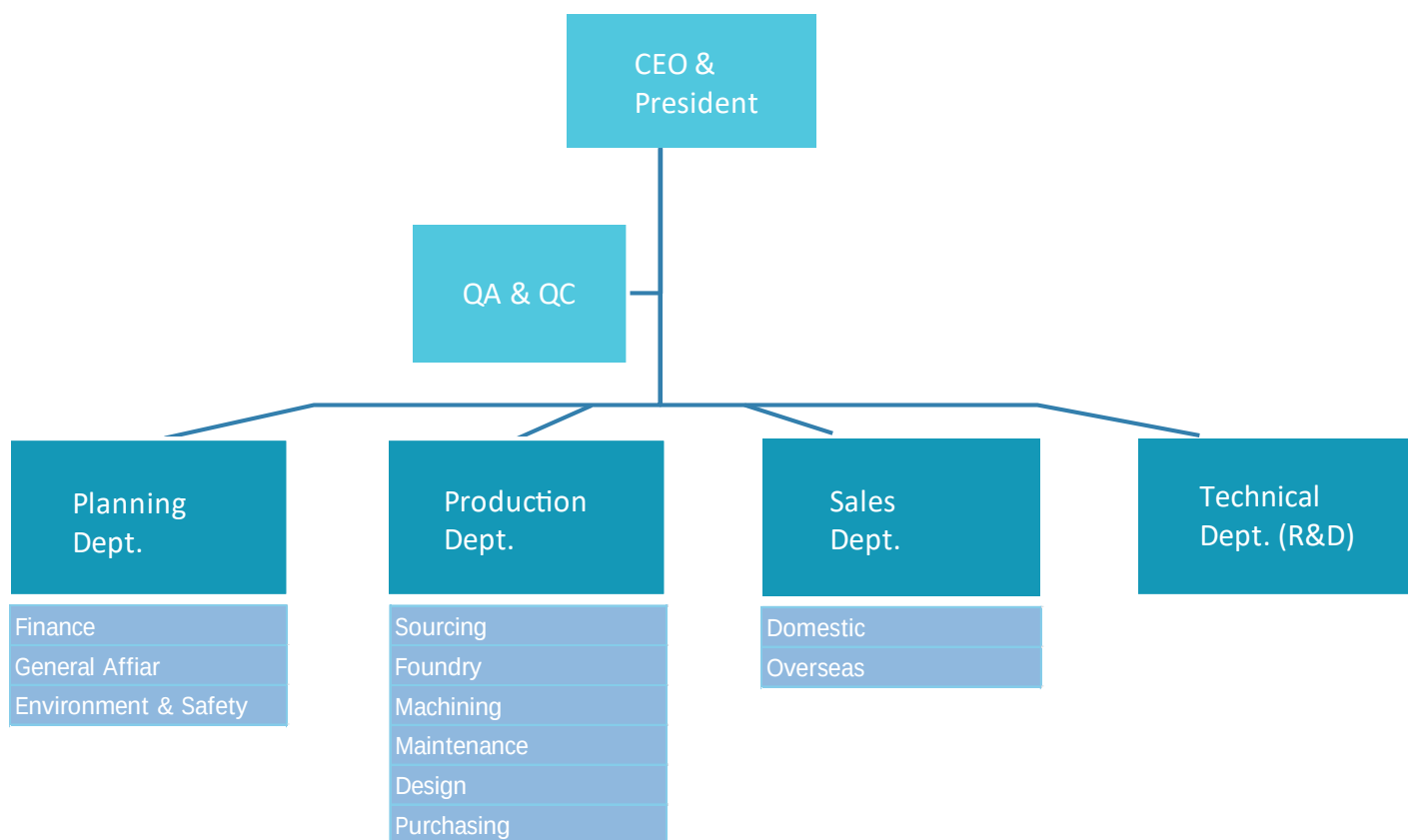
PROFILE | History

Dec	1974	Started Hansung Iron & Steel Co., Ltd.
Dec	1987	Relocated factory (Current Location)
Jan	1989	LR approved (Lloyd's Register of Shipping)
Jul	1989	DNV approved (Det Norske Veritas)
Jan	1992	API Q1 approved
Mar	1992	Nuclear Power Pant Valves manufacturer approved by MOST (Ministry of Science & Technology)
Jan	1993	ISO 9001 approved
Aug	1993	GL (Germanischer Lloyd) approved
Aug	1993	BV (Bureau Veritas) approved
Nov	1996	Renamed to Kookjae Steel Ind. Co., Ltd.
Nov	1999	ISO 14001 approved
Jul	2001	CE / TUV approved
Nov	2004	Renamed to Samwoo KJS Tec Co., Ltd.
May	2009	SABIC approved (Saudi Arabia)
Feb	2013	Korean Rester of Shipping obtained
Apr	2015	Takreeer (ADNOC) approved
Jan	2015	Fugitive Emission (ISO15848-1) approved
Mar	2016	TRCU approved
Jan	2017	Type Acceptance Test (TAT : MESC 77/300)
Feb	2017	Fire Test Certificate (API 6FA, ADI 6FD)
Jun	2017	M&A PEACH VALVE Co., Ltd.



PROFILE | Finance & Organization

	2014	2015	2016
Sales	29,633	23,629	30,060
Export cost (%)	61.8%	60.0%	44.8%
Operating profit	1,937	1,552	2,125
Net profit	2,344	1,744	2,346
Sales OP margin	6.5%	6.6%	7.1%
Total assets	43,876	45,664	50,385
Equity capital	32,735	33,479	34,826
Debt ratio	34.0%	36.4%	44.7%



PROFILE | Production Range

Gate Valve, Globe Valve, Swing Check Valve, Cryogenic Valve, Non-Return Valve, Tilting Check Valve, Pararell Slide Gate Valve, Bellows Sealed Valve, Ball Valve, Butterfly Valve, Metal to Metal Ball Valve, Dual Plate Check Valve

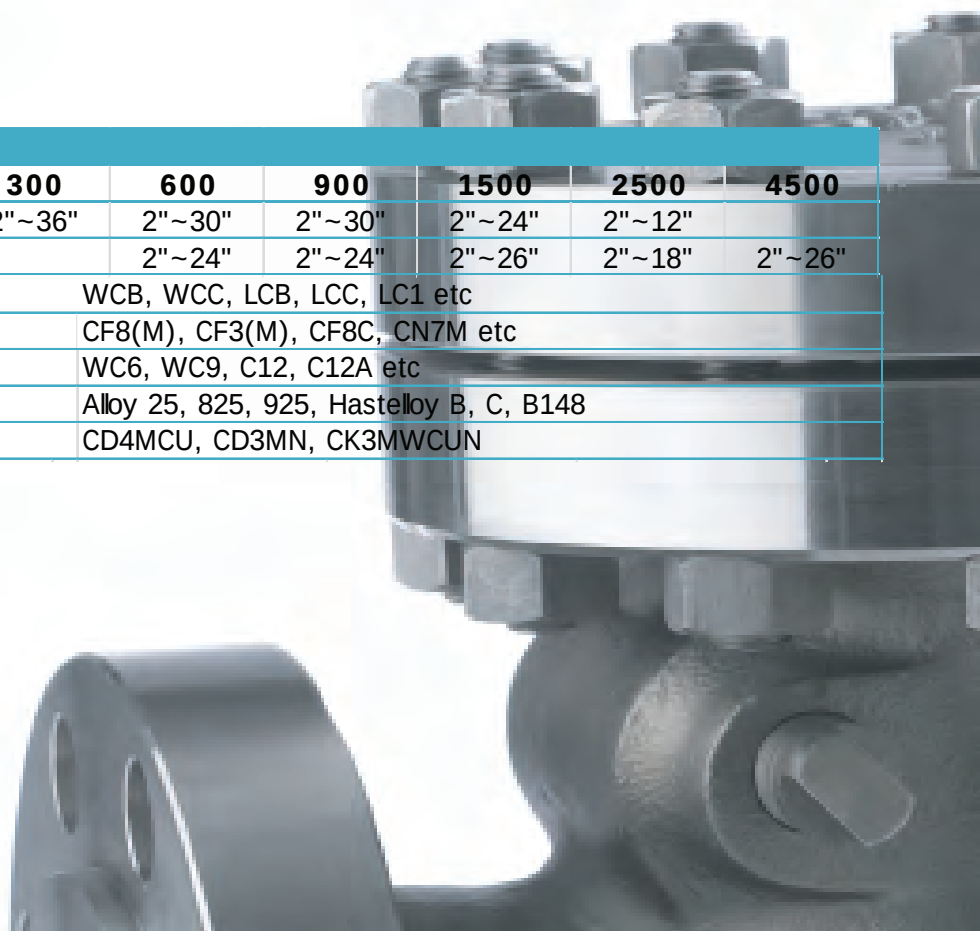


PROFILE | Production Range - Gate, Globe, Swing Check

Gate Valve.							
	150	300	600	900	1500	2500	4500
BB	2"~72"	2"~48"	2"~42"	2"~24"	2"~24"	2"~12"	2"~12"
PB			2"~30"	2"~24"	2"~26"	2"~24"	2"~26"
Material	Carbon Steel		WCB, WCC, LCB, LCC, LC1 etc				
	Stainless Steel		CF8(M), CF3(M), CF8C, CN7M etc				
	Alloy STEEL		WC6, WC9, C12, C12A etc				
			Alloy 25, 825, 925, Hastelloy B, C, B148				
	Duplex Steel		CD4MCU, CD3MN, CK3MWCUN				

Globe Valve.							
	150	300	600	900	1500	2500	4500
BB	2"~24"	2"~24"	2"~20"	2"~20"	2"~16"	2"~12"	
PB			2"~20"	2"~20"	2"~16"	2"~12"	2"~26"
Material	Carbon Steel		WCB, WCC, LCB, LCC, LC1 etc				
	Stainless Steel		CF8(M), CF3(M), CF8C, CN7M etc				
	Alloy STEEL		WC6, WC9, C12, C12A etc				
			Alloy 25, 825, 925, Hastelloy B, C, B148				
	Duplex Steel		CD4MCU, CD3MN, CK3MWCUN				

Swing Check Valve							
	150	300	600	900	1500	2500	4500
BB	2"~42"	2"~36"	2"~30"	2"~30"	2"~24"	2"~12"	
PB			2"~24"	2"~24"	2"~26"	2"~18"	2"~26"
Material	Carbon Steel		WCB, WCC, LCB, LCC, LC1 etc				
	Stainless Steel		CF8(M), CF3(M), CF8C, CN7M etc				
	Alloy STEEL		WC6, WC9, C12, C12A etc				
			Alloy 25, 825, 925, Hastelloy B, C, B148				
	Duplex Steel		CD4MCU, CD3MN, CK3MWCUN				

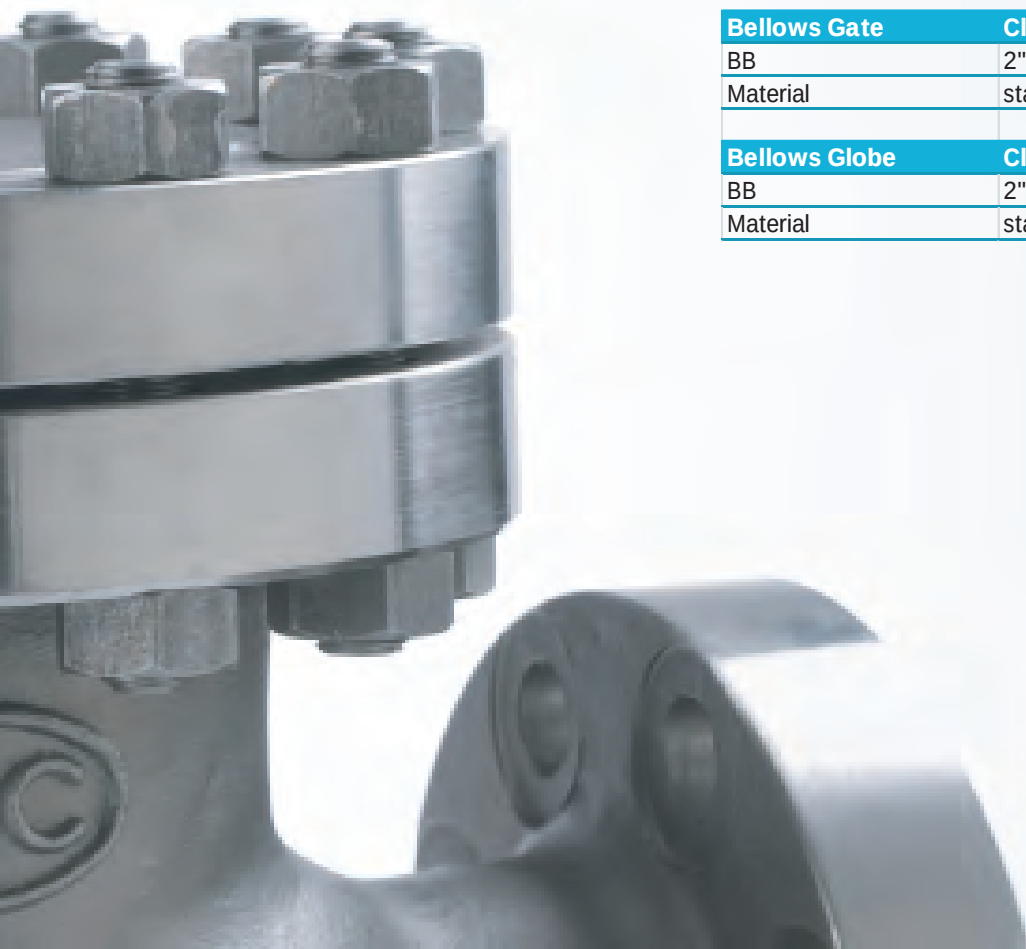


PROFILE | Production Range - Cryogenic, NRV, Tilting, Bellows Sealed

Cryogenic Gate	Class 150	300	600	900	1500
BB	2"~36"	2"~24"	2"~18"	2"~8"	2"~8"
Cryogenic Globe	Class 150	300	600	900	1500
BB	2"~12"	2"~12"	2"~10"	2"~8"	2"~6"
Cryogenic Check	Class 150	300	600	900	1500
BB	2"~20"	2"~18"	2"~12"	2"~8"	2"~6"
Temp.	Up to - 196 °C				
Material	CF8, CF8M, CF3, CF3M etc				
Service	Low Temperature Service to -196 °C				

NRV (Non Return)	Class 600	900	1500	2500
PB	2"~16"	2"~16"	2"~20"	2"~12"
Temp.	Up to 600℃			
Material	WCB, WCC, WC6, WC9, C12A			
Service	High temperature and pressure			
Tilting Check Valve	Class 600	900	1500	2500
PB	2"~24"	2"~24"	2"~24"	2"~24"
Temp.	Up to 600℃			
Material	WCB, WCC, WC6, WC9, C12A			
Service	High temperature and pressure			

Bellows Gate	Class 150	300
BB	2"~20"	2"~20"
Material	stainless material	
Bellows Globe	Class 150	300
BB	2"~20"	2"~20"
Material	stainless material	

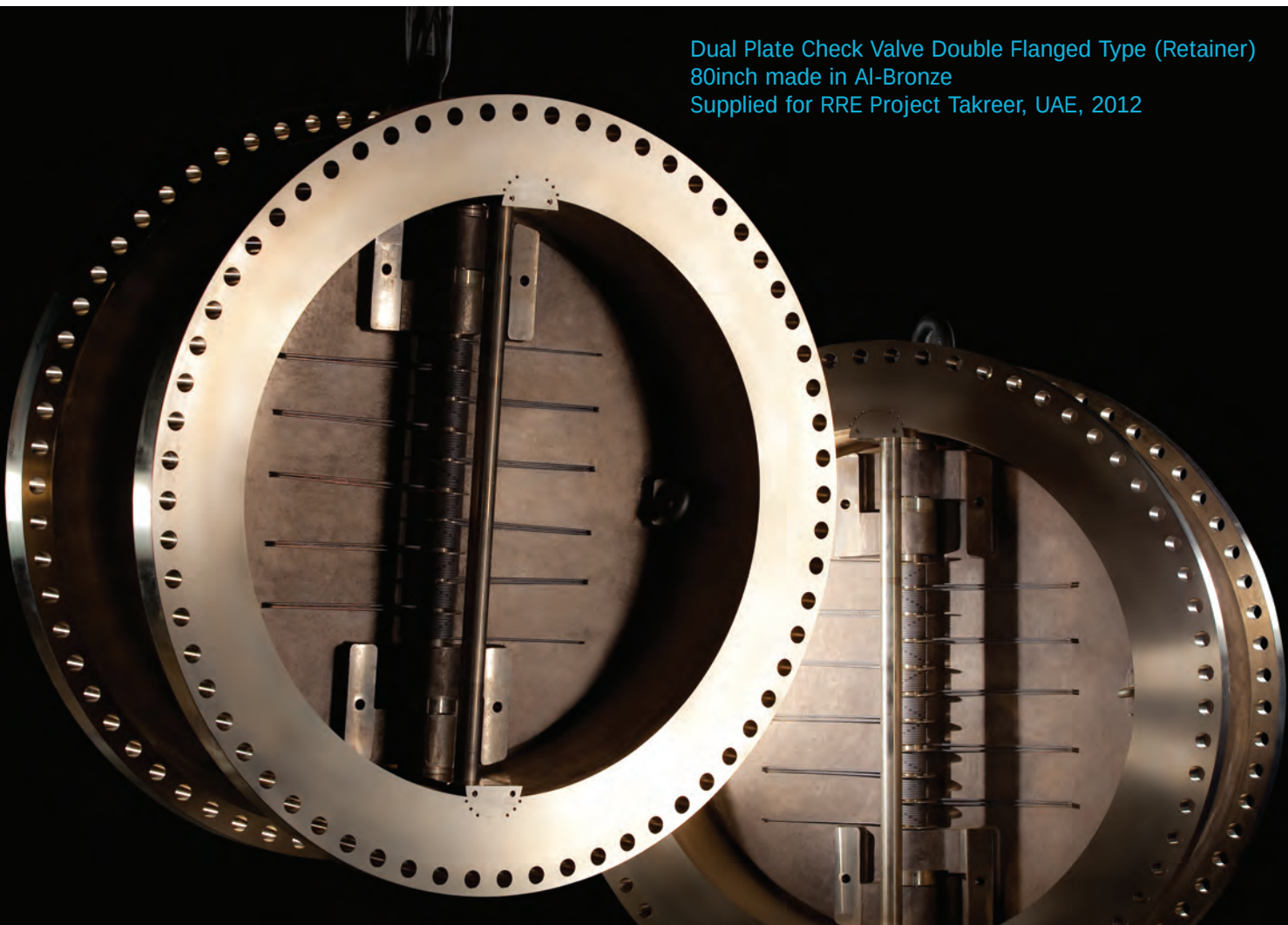


PROFILE | Production Range - Dual Plate Check Valves

DUAL PLATE CHECK VALVE		
Type	Size & Class	Material
Double flange Type	2~144 inch	Duplex
Wafer Type	Class 150~2500	Super Duplex Stainless
Lug Type	API 6A Class 2000~10000	Stainless Steel
Double flange Type	AWWA C 207 ClassD	Monel
Hub Type		Titanium
Butt-welding Type		Hastelloy
		Alloy 800 and Incone, Incoloy Alloy
(Option: Retainerless / Retainer)		CZ-100 and Nickel Alloy
		CN7M and Carpenter Alloy
API 594, 598, 607, 6A, 6FA, 6D		Stainless Steel
ASME B Series		Carbon Steel
MSS Series		Ni. Al-Bronze
AWWA, JPI, ISO, DIN, KS, BS, JIS		Ductile Iron

Samwoo KJS Tec Co., Ltd. merged and acquired Peach Valve Co., Ltd. on June, 2017.

Dual Plate Check Valve Double Flanged Type (Retainer)
80inch made in Al-Bronze
Supplied for RRE Project Takreer, UAE, 2012



Product Detail

Item	Standard	Material
Dual Plate Check Valves Wafer Type Lug Type Double Flange Type BW Type Hub Type (Retainerless / Plug)	API 594, 598, 6FA(Fire Safety) ASME MSS Series AWWA, JPI, ISO, DIN, KS, BS, JIS 04-SAMSS-048, SAES-A-206	Carbon Steel Low Temp. Carbon Steel Ni. Alloy Ni. Al-bronze Duplex Super Duplex Monel Hastelloy C Inconel Etc.
Size & Class		
2~80 inch / ANSI Class 150~2500 LB		



PEACH VALVE

Trouble Free Cryogenic Valve in Severe Environments

Since 1975, Peach Valve has been renowned as high quality Dual Plate Check Valve (API 594) manufacturer whose specialists and staffs are dedicated to considering particular circumstance of each customer in the world. From the design to shipping Peach Valve cryogenic valves are tailored to meet the clients' needs in any severe environments. Especially for LNG industries, Peach Valve makes a contributes with their cryogenic valves as a vendor of many significant Oil and Gas companies.

For more information, please visit www.peachvalve.com

 **Peach Valve**

LOW TEMPERATURE AND CRYOGENIC TESTING

Hydro Test Medium:

Cryogenic -196°C : Pure Helium

Low Temperature $-46^{\circ}\text{C} \sim -170^{\circ}\text{C}$: 99% Helium/1% Nitrogen Mix or Pure Helium

Procedure

Pressure within the test valve is increased in equal increase according to class and seat leakage while being measured using a series of calibrated flow-meters. The maximum pressure at which the valve is tested is limited by the CWP as designated in ANSI B16.34, also applicable of customer requirements, for the rating of valve under test.

CRYOGENIC TEST FACILITY

APPLYING TEST & INSPECTION

Chemical Composition Analysis

Mechanical Property Test (ASTM A370)

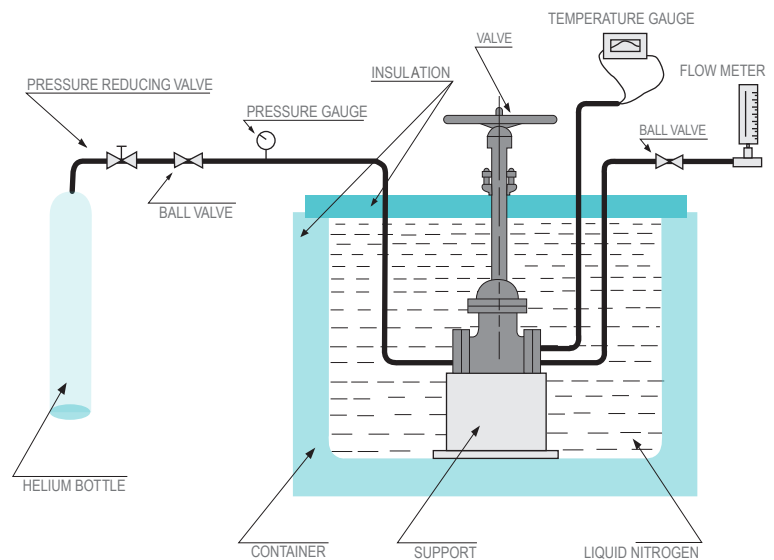
Pressure Test (A598 or BS EN 102266)

Radiographic Inspection (ASTM E142/E49)

Magnetic Particle Inspection (ASTM E138)

Liquid Penetrant Inspection (ASTM E165)

Cryogenic Test (BS 6364)



Certificate of Registration by Korea Gas Corporation (KOGAS)

Along with the growth of LNG industry, Peach Valve has invested in its production and test facilities for cryogenic valves in recent years. Korea Gas Corporation (KOGAS) approved the ability and quality of Peach Valve cryogenic valves and admitted Peach Valve as its valuable supplier for the demand of cryogenic valves.



PROFILE | Manufacturing and Testing Facilities

MACHINING FACILITIES	CAPACITY	Q'TY
Lathe	1700x3000etc	13units
NC Vertical Lathe	TNV-80	1unit
Horizontal Boring M/C	1120X1250mm etc	3units
Vertical Turning M/C	2300X1630mm etc	2units
Radial Drill M/C	1100mm etc	13units
NC Vertical Lathe	TNV-80	1unit
Lapping M/C	6EA/BATCH	1unit
Milling M/C	#5	2units
CNC Boring M/C	2,000x1,800mm	1unit

TESTING FACILITIES	CAPACITY	Q'TY
CHARPY IMPACT TEST M/C	150kg/cm2	1 unit
CRYOGENIC BOX	1,500×2,300×1,300mm etc	6 units
RT ROOM(Ir & Co)	4500×7100×3500 mm	3 units
MUFFLE FURNACE		1 unit
WELDING ROD STORAGE ROOM	Baking Oven+Dry oven	1unit
PRESSURE TESTER 1400 X 1600 X 700 mm	150lb, 2-8"	1 unit
PRESSURE TESTER 1200 X 2600 X 600 mm	300lb, 2-3"	1 unit
PRESSURE TESTER 1500 X 2300 X 600 mm	300lb, 16"/ 150lb, 8"	1 unit
PRESSURE TESTER 1500 X 2400 X 1600 mm	300lb, 24"	1 unit
PRESSURE TESTER 1800 X 2000 X 2500 mm	150lb, 36"	1 unit
PRESSURE TESTER 1000 X 2200 X 1100 mm	300lb, 10" / 150lb 8"	1 unit
MT - Yoke type	NAWOO, PICO UVLINE	1 unit
PT - Penetration Test	NAWOO	1 unit
UT - Flaw Detector	Krautkramer, USK-7S	1 unit
RT - g Ray projector	Amersham, Amertest 660	1 unit

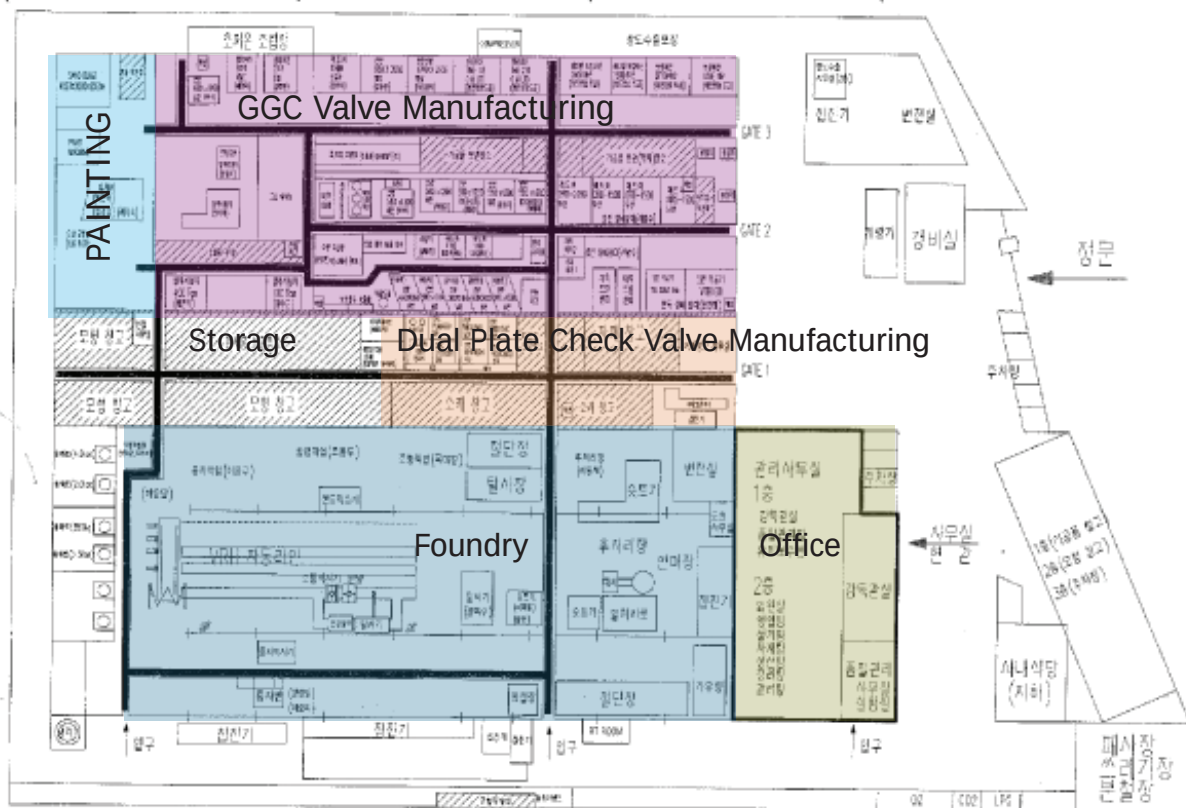
PAINTING FACILITIES	CAPACITY	Q'TY
Blasting Room	400X500X300mm	1 unit
Hanger Painting Booth	300 pcs /1 time	1 unit

PROFILE | Foundry

DESCRIPTION	CAPACITY	Q'TY
HIGH FREQ. INDUCTION FURNACE	2.0/1.5ton	1set
HIGH FREQ. INDUCTION FURNACE	1.5/1.0ton	1set
VRH LINE (Vacuum Replacement Hardening)	240ton/month	2 lines
HEAT TREATMENT FURNACE	10ton	1unit
HEAT TREATMENT FURNACE (PWHT)	7ton(max.10t)	1unit
SHOT BLAST ROOM	7.5X3.0X2.5m	1unit

- 
- Special Alloy** Alloy 625, 825, 925, Hastelloy B, C, B148
 - Stainless Steel** CN7M, CG8M, CF8(M), CF3(M), CF8C, CN7M
 - Duplex** CD4MCU, CD3MN, CK3MWCUN etc
 - Carbon Steel** WCB, WC1, LCB, LCC, LC1
 - Carbon Alloy** C6, WC9, C5

PROFILE | Facilities - Factory Layout



PROFILE | Qualification

CERTIFICATES

ISO 9001 (BVQI)

ISO 14001 (BVQI)

CE (TUV)

API 6D (API)

API 600 (API)

Type Acceptance Test (TAT : MESC 77/300)

Fugitive Emission (ISO15848-1) approved

Fire Test Certificate (API 6FA, ADI 6FD)

Lloyd's Register for Castings in Carbon and Carbon Managed Steel

ABS Quality Evaluations

Certificate Of Conformance

This is to certify that the Environment Management System of:

SAMWOO KJS TEC Co., Ltd
#45-2, Woongnam-dong, Seongsan-gu
Changwon-si
Gyeongsangnam-do
Korea

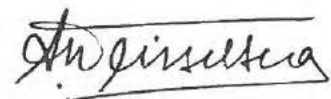
has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:

ISO 14001:2004

The Environment Management System is applicable to:

**DESIGN/DEVELOPMENT, MANUFACTURING AND SERVICING OF CASTING, CAST STEEL GATE, GLOBE, BALL
AND CHECK VALVE**

Certificate No:	46725
Original Certification Date:	14 November 2011
Effective Date:	11 November 2014
Expiration Date:	13 November 2017
Revision Date:	12 November 2014



Alex Weisselberg, President



Validity of this certificate is based on the periodic audits of the management system defined by the above scope and is contingent upon prompt, written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.

ABS Quality Evaluations, Inc. 16855 Northchase Drive, Houston, TX 77060, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.



Certificate No : REM2150

Environmental Management System Certificate

This is to certify that
the environmental management system of

SAMWOO KJS TEC CO.,LTD.

at

#328, Ungnam-ro, Seongsan-gu, Changwon-si, Gyeongnam, Korea

Has been found to conform to the Environmental Management System Standards:

KS I ISO 14001:2009/ISO 14001:2004

This Certificate is valid for the following product or service ranges:

***Design, Development, Manufacture and Servicing of
Industrial Steel Valve (Gate, Globe, Ball, Check and Control Valve)***

Issue Date : Nov. 24. 2016

Certification Date : Feb. 5. 2016

Valid Date : Nov. 13. 2017



Authorized By

Ki Ho Park, President

- Mark indicates that KMAR is accredited by the KAB (No. KAB-EC-17)
- Mark indicates that KMAR is Accredited by the member of the international Accreditation Forum Multilateral Recognition Arrangement.
- KSIC CODE :18/ Initial certification date: Nov. 14. 2011

KMAR / 1dong, 12F, Ace High Tech City, #775, Gyeongin-ro, Yeongdeungpo-gu, Seoul, 07299, Korea/T:82-2-6309-9001,F:82-2-6309-9004

Certificate KR14/02268

SGS

The management system of

SAMWOO KJS TEC CO.,LTD

328, Ungnam-ro, Seonsan-Gu, Chanwon-Si, Gyeongsangnam-Do, Korea



has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

**Design, development, manufacture and servicing
of industrial steel valves(gate, globe, ball, check and control valve)**

Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2008 requirements may be obtained by consulting the organisation

This certificate is valid from 17 October 2014 until 16 October 2017
and remains valid subject to satisfactory surveillance audits.

Re certification audit due before 16 October 2017

Issue 1. Certified since 17 October 2014

Authorised by

SGS United Kingdom Ltd Systems & Services Certification
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK
t +44 (0)151 350-6866 f +44 (0)151 350-6600 www.sgs.com

SGS 9001-8 01 0614

Page 1 of 1



0005



This document is issued by the Company subject to its General Conditions of
Certification Services accessible at www.sgs.com/terms_and_conditions.htm.
Attention is drawn to the limitations of liability, indemnification and jurisdictional
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<http://www.sgs.com/en/Our-Company/Certified-Client-Directories/Certified-Client-Directories.aspx>. Any unauthorized alteration, forgery or falsification of the
content or appearance of this document is unlawful and offenders may be
prosecuted to the fullest extent of the law.

Approval of Material Manufacturers Zulassung von Werkstoffherstellern



This is to certify that the works of
Hiermit wird bescheinigt, dass die Firma

**SAMWOO KJS TEC. CO., LTD.
CHANGWON, KOREA**

has been subjected to an approval test in accordance with the Society's Rules with satisfactory results and is approved for the manufacture of the following products:

einer Zulassungsprüfung nach den Vorschriften des Germanischen Lloyd unterzogen wurde und für die Herstellung folgender Erzeugnisse zugelassen ist:

**Steel Castings for Machine Construction and Shipbuilding
in accordance with the GL-Rules for Metallic Materials,
Chapter 2, Section 4.B**

**Steel Castings for Steam Boilers, Pressure Vessels and Pipelines
in accordance with the GL-Rules for Metallic Materials,
Chapter 2, Section 4.D**

This approval is granted provided that all products intended to be used for the construction of ships or installations classed with Germanischer Lloyd comply in every respect with the Society's Rules and Requirements.

Die Zulassung erfolgt unter der Voraussetzung, dass alle Erzeugnisse, die zum Bau von Schiffen und Anlagen mit Klasse des Germanischen Lloyd bestimmt sind, die Vorschriften des Germanischen Lloyd in jeder Hinsicht erfüllen.

Certificate of approval No.
Zulassungsbescheinigung Nr.

WZ 334 HH 7

This Certificate is valid until:
Diese Bescheinigung ist gültig bis:

2017-08-31

Part of the approval is our letter of approval ref. no. 080305-14 of 2014-09-04.

Bestandteil der Zulassung ist das Zulassungsanschreiben, Tgb.-Nr. 080305-14 vom 2014-09-04.

Hamburg, 2014-09-04

Germanischer Lloyd

[Signature]
Stefan Röhr

[Signature]
i.a. Oliver Krömer

Certificate

Quality-Assurance System

acc. to Directive 2014/68/EU

Certificate no.:

01 202 ROK/Q-01 0001

Name and address of the manufacturer:

SAMWOO KJS TEC CO., LTD.
328 Woongnam-Ro ,Seongsan-Gu,
Changwon City, Kyungnam, South Korea

Herewith we certify that the above -mentioned manufacturer operates a quality system according to the European Directive 2014/68/EU. The manufacturer has the permission to affix the following CE marking to pressure equipment described and manufactured in accordance to the scope covered by this Quality-Assurance System:

CE 0035

Tested acc. to
Directive 2014/68/EU:

QS-System (Module H)
(the QS-Module E1, E, D1, D are covered by Module H)

Audit report no.:

ROK/Q-01 0001

Area of validity:

Design and Manufacturing of Industrial Valves,
see annex to certificate

Manufacturing plant:

SAMWOO KJS TEC CO., LTD.
328 Woongnam-Ro ,Seongsan-Gu,
Changwon City, Kyungnam, South Korea

Valid until:

July 31, 2019

Cologne, August 04, 2016

i.V. Dipl.-Ing. Oliver Theisen



TÜV Rheinland Industrie Service GmbH
Notified Body for Pressure Equipment, ID-No. 0035
Am Grauen Stein, D-51105 Köln

E-008-E-Rev21

www.tuv.com

 **TÜVRheinland®**
Precisely Right.

FIRE TEST CERTIFICATE

Date : 28th Feb., 2017

Client	: SAMWOO KJS TEC CO., LTD.
Date and place of test	: 20 th ~ 23 th Feb., 2017 at the manufacturer's premises, Korea
Kind of test	: Witness of Fire Test
Test valve	: <u>Carbon Steel Ball Valves : Metal Seated</u> - NPS 2, Class 600, A216 WCB : 1unit - NPS 4, Class 600, A216 WCB : 1unit - NPS 8, Class 600, A216 WCB : 1unit
Design standard	: API 6D
Applicable drawing	: T600M02 / T600M04 / T600M08 Rev. 0
Test standard	: API STANDARD 6FA, third edition

This is to certify that the fire test was performed by the manufacturer under our witness as above, including an additional test on a mid-range size of the same design in Ferritic material and the results were satisfied within acceptance criteria of API 6FA.

So we hereby confirm that the coverage of the qualification ranges Class 600 through Class 900 rating with NPS 2 through NPS16 size for the Ferritic, Austenitic & Duplex material as per Para. Table 2 of API 6FA.

Note

The details of the test condition and data are as per manufacturer's Test Report No. KJS-FST6FA-170220-01 / KJS-FST6FA-170221-01 / KJS-FST6FA-170223-01 Rev.0 which were verified and endorsed by us.

**

**

“ In accordance with Client’s instructions, the Company’s involvement has been limited to witnessing/observing a third party’s intervention(s) at the third party’s laboratory/test house or other facilities and installations used for the intervention(s). The Company’s sole responsibility was to be present at the time of the third party’s intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party’s personnel or the analysis results.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.”

Applus Velosi OMS

M. Kim

Min Jae Kim

Representative Director

PG // SI



®

**American
Petroleum
Institute**



2015-313

Certificate of Authority to use the Official API Monogram

License Number: 600-0097

ORIGINAL

The American Petroleum Institute hereby grants to

SAMWOO KJS TEC CO., LTD
328 Woongnam-Ro
Seongsan-Gu
Changwon City, Kyungnam
South Korea

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-600** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **600-0097**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Bolted Bonnet Steel Gate Valves

QMS Exclusions: Customer Property

Effective Date: APRIL 8, 2016

Expiration Date: JULY 17, 2018

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President, API Global Industry Services



®

**American
Petroleum
Institute**



2015-313

Certificate of Authority to use the Official API Monogram

License Number: 6D-0608

ORIGINAL

The American Petroleum Institute hereby grants to

SAMWOO KJS TEC CO., LTD
328 Woongnam-Ro
Seongsan-Gu
Changwon City, Kyungnam
South Korea

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-6D** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6D-0608**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Gate Valves, Ball Valves and Check Valves

QMS Exclusions: Customer Property

Effective Date: APRIL 8, 2016

Expiration Date: JULY 17, 2018

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President, API Global Industry Services



СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ТС RU C-KR.MIO62.B.03483

Серия RU № 0338743

ОРГАН ПО СЕРТИФИКАЦИИ продукции Общество с ограниченной ответственностью «ПРОММАШ ТЕСТ».
 Место нахождения: 115114, Российская Федерация, город Москва, Дербеневская набережная, дом 11, помещение 60.
 Фактический адрес: 115114, Российская Федерация, город Москва, Дербеневская набережная, дом 11, помещение 60.
 Телефон: +7 (495) 775-48-45, факс: +7 (495) 775-48-45, адрес электронной почты: info@prommashtest.ru. Аттестат аккредитации регистрационный № РОСС RU.0001.11МЮ62 выдан 01.12.2014 года Федеральной службой по аккредитации

ЗАЯВИТЕЛЬ Общество с ограниченной ответственностью «ДС Компания».

Основной государственный регистрационный номер: 1107746937374.

Место нахождения: 105037, Российская Федерация, город Москва, улица 3-я Парковая, дом 9, офис 18

Фактический адрес: 105037, Российская Федерация, город Москва, улица 3-я Парковая, дом 9, офис 18

Телефон: 89660273663, факс: 89660273663, адрес электронной почты: dc.company2000@gmail.com

ИЗГОТОВИТЕЛЬ SAMWOO KJS TEC CO., LTD.

Место нахождения: Республика Корея, 328, Woongnam-ro, Seongsan-gu, Changwon-City, Gyungnam

Фактический адрес: Республика Корея, 328, Woongnam-ro, Seongsan-gu, Changwon-City, Gyungnam

ПРОДУКЦИЯ Арматура, работающая под избыточным давлением, торговой марки «KJS»,
 типы: согласно приложению – бланк № 0269766.

Продукция изготовлена в соответствии с документацией – Directive 97/23/ЕС «Оборудование, работающее под давлением».

Серийный выпуск

КОД ТН ВЭД ТС 8481 80 790 0, 8481 80 819 9, 8481 30 990 9, 8481 80 690 0

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технического регламента Таможенного союза ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением"

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ протоколов испытаний №№ 27-43-1-16/БМ, 28-43-1-16/БМ, 29-43-1-16/БМ, 30-43-1-16/БМ от 29.02.2016 года. Испытательная лаборатория Общество с ограниченной ответственностью «БизнесМаркет», аттестат аккредитации регистрационный № РОСС RU.0001.21AB90 от 15.12.2015 года; акта анализа состояния производства от 15.01.2015 года органа по сертификации Общества с ограниченной ответственностью «ПРОММАШ ТЕСТ»; документации изготовителя (смотри приложение – бланк № 0269767).

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Условия и срок хранения продукции в соответствии с ГОСТ 15150-69.

Срок службы 30 лет. Категория оборудования 3-я по ТР ТС 032/2013 «О безопасности оборудования, работающего под избыточным давлением».

СРОК ДЕЙСТВИЯ С

14.03.2016

ПО

13.03.2021

ВКЛЮЧИТЕЛЬНО



Руководитель (уполномоченное
лицо) органа по сертификации

Эксперт (эксперт-аудитор)
(эксперты (эксперты-аудиторы))

И.В. Модянов

(инициалы, фамилия)

Ю.А. Будников

(инициалы, фамилия)

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ №ТС RU C-KR.MIO62.B.03483

Серия RU № 0269766

КОД ТН ВЭД ТС	Наименование, типы, марки, модели однородной продукции, составные изделия или комплекса	Обозначение документации, в соответствии с которой выпускается продукция
	Арматура, работающая под избыточным давлением, торговой марки «KJS», типы:	Directive 97/23/EC «Оборудование, работающее под давлением»
8481 80 790 0	Запорный клапан (Globe valve), модели: GLTH, GLTG, GLTM, GLTA, GLTO, GLAH, GLAG, GLAM, GLAA, GLAO, GLYH, GLYG, GLYM, GLYA, GLYO, GLOH, GLOG, GLOM, GLOA, GLOO;	
8481 80 819 9	Шаровой кран (Ball valve), модели: BAFH, BAFG, BAFM, BAFA, BAFO, BATH, BATG, BATM, BATA, BATO, BAPH, BAPG, BAPM, BAPA, BAPO, BAOH, BAOG, BAOM, BAOA, BAOO;	
8481 80 690 0	Клиновaя задвижка (Gate valve), модели: GAWH, GAWG, GAWM, GAWA, GAWO, GAPH, GAPG, GAPM, GAPA, GAPO, GATH, GATG, GATM, GATA, GATO, GAOH, GAOG, GAOM, GAOA, GAOO;	
8481 30 990 9	Обратный клапан (Check valve), модели: CHSO, CHNH, CHNG, CHNM, CHNA, CHNO, CHTO, CHDO, CHLO, CHOO.	



Руководитель (уполномоченное
лицо) органа по сертификации

Эксперт (эксперт-аудитор)
(эксперты (эксперты-аудиторы))

(подпись)

(подпись)

И.В. Модянов

(инициалы, фамилия)

Ю.А. Будников

(инициалы, фамилия)

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ №ТС RU C-KR.MЮ62.B.03483

Серия RU № 0269767

1. Обоснование безопасности KJS.01.002.ОБ;
2. Руководство по эксплуатации KJS.01.001.РЭ;
3. Паспорта арматуры, работающей под давлением: «Запорный клапан, модель: GLTH»; «Клиновое задвижка, модель: GAWH»; «Обратный клапан, модель: CHSO»; «Шаровой кран, модель: BAFH»;
4. Расчеты на прочность;
5. Чертежи: B15-011, C15-011, L30-011, T30-011;
6. Сведения о заводских испытаниях;
7. Документация сварочного производства;
8. Документация подтверждающая характеристики материалов;
9. Квалификационные удостоверения

Руководитель (уполномоченное
лицо) органа по сертификацииЭксперт (эксперт-аудитор)
(эксперты (эксперты-аудиторы))

(подпись)

(подпись)

И.В. Модянов
(инициалы, фамилия)Ю.А. Будников
(инициалы, фамилия)



APPROVAL CERTIFICATE FOR MANUFACTURING PROCESS

Certificate No. : CWN00953-SC001 **Initial Approval** : 15th January, 1998.
Product : Steel Castings
Manufacturer : Samwoo KJS Tec. Co., Ltd.
45-2, Woongnam-dong, Changwon, Kyungnam, Korea

Product Description : Carbon Steel Castings

- Grade : RSC or equivalent grade
- Casting process : Sand casting
- Mass of castings : Max. 2,000 kg
- Main products : Marine valves, etc.

Approval Condition : Individual Product Certification is required.

THIS IS TO CERTIFY that the manufacturing process for the above mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturer and Type Approved Equipment".

Pt. 2, Ch. 1, Art. 501 of the Rules for Classification of Steel Ships.

This Certificate is valid until 14th January, 2018.

Issued at Busan, Korea on 4th February, 2013.



*General Manager of
Materials and Equipment Team*

Note :1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.



인증번호: ROH1156

안전보건경영시스템 인증서

(주)삼우케이제이에스텍

경남 창원시 성산구 웅남로 328

적용표준

K-OHSMS 18001:2007 / OHSAS 18001:2007

인증범위

산업용 밸브(Gate, Globe, Ball, Check and Control Valve)에 대한
설계, 개발, 생산 및 서비스

위와 같이 안전보건경영시스템 규격에 적합함이
한국능률협회인증원에 의해 인증되었음을 증명함.

2016년 2월 26일

인증승인일자 : 2016. 2. 26.

인증유효일자 : 2019. 2. 25.



한국능률협회인증원



- KMAR 마크는 한국인정지원센터(KAB)로부터 안전보건경영시스템 인증기관으로 인정(인정번호:KAB-OC-12)되었음을 나타내는 인정마크입니다.
- 인증수행범위(KSIC CODE) :18/ 심사원 :강명호/ 최초인증일자 :2016. 2. 26.
- (주)한국능률협회인증원 / 서울특별시 영등포구 경인로 775 에이스하이테크시티 1동 12층/ T: 02-6309-9001/ F: 02-6309-9004



Certificate No : ROH1156

Management System Certificate

This is to certify that
the occupational health and safety management system of

SAMWOO KJS TEC Co.,Ltd.

at

#328, Ungnam-ro, Seongsan-gu, Changwon-si, Gyeongnam, Korea

has been found to conform to the Occupational Health and Safety Management System Standards:

K-OHSMS 18001:2007 / OHSAS 18001:2007

This Certificate is valid for the following product or service ranges:

*Design, Development, Manufacture and Servicing of
Industrial Steel Valve (Gate, Globe, Ball, Check and Control Valve)*

Issue Date
Feb. 26. 2016

Certification Date : Feb. 26. 2016

Valid Date : Feb. 25. 2019



Authorized By

Ki Ho Park, President

- Mark indicates that KMAR is accredited by the KAB (No. KAB-OC-12)
- KSIC CODE :18/ Initial certification date: Feb. 26. 2016
- KMAR/ 1dong, 12F, Ace High Tech City, #775, Gyeongin-ro, Yeongdeungpo-gu, Seoul, 150-972, Korea

Date: August 17, 2017
 Certificate No. : B-50/2016-0023/013-06
 Page 1 of 1

Applicant / Manufacturer	: Samwoo KJS Tec Co., Ltd.
Date and place of test	: 3~8 July, 2017 at the manufacturer's premises in Changwon, Korea
Kind of test	: Witness of Fugitive Emission Test According to API 624
Test valve	: Cast Steel Gate Valve : 12" 1500# - Body/Bonnet Material : A216 WCB - Stem Material : A479 410 - Valve Stem Type : Rising - Packing Type : 4 Ring of Pillar 6617 + 2 Ring of Pillar 6710 - Packing Size : 65.0*91.0*12.7mm (6ea) - Body-Bonnet Connection : Pressure Seal Type
Design Standard	: API 600
Applicable drawing	: 16-1208-08
Test standard	: API Standard 624 First Edition, Feb., 2014
Test condition	
- Test medium	: Methane
- Test pressure	: 255.3 Bar at Ambient Temperature, 207.6 Bar at 260°C
- Number of mechanical cycle	: 310 Cycles
- Number of thermal cycles	: 3
- Packing adjustment during type testing	: None
Extension of qualification	: As per Para.10 of API 624

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This is to certify that fugitive emission test was performed by the manufacturer under witness, and the result was satisfied within acceptance criteria of leakage through the test not exceed 100 ppmv.

Note

The details of the test condition and data are as per manufacturer's Test Report No. KJS-API624-170709-01, which was verified and endorsed.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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SHJ/jhs

SGS Korea Co., Ltd.



I. J. Jun
 Manager, Industrial Division

FUGITIVE EMISSION TEST CERTIFICATE

Date : 18 Feb., 2016

Applicant / Manufacturer	: Samwoo KJS Tec Co., Ltd.
Date and place of test	: 22~28 Jan., 2016 at the manufacturer's premises in Changwon, Korea
Kind of test	: Witness of Fugitive Emission Test
Test valve	: <u>Y-Globe Valve (ASTM A216 WCB)</u> - 8", CL900, Stem Dia.: 62.0mm
Applicable drawing	: 15-0409-101 Rev.0
Test standard	: ISO 15848 Part1, 2015 Edition
Test condition	: - Test Medium : Helium - Test Pressure : 153 Bar at Room Temperature, 104 Bar at 400℃ - Tightness Class : BH - Mechanical-Cycle Class : 1500 Cycles / CO2 - Number of Thermal Cycles : 3 - Number of Stem Seal Adjustment : 0 - Temperature Class : t400℃

Performance Class : ISO FE BH-CO2- t(RT, 400 °C)-CL900-ISO 15848-1

Extension of Qualification : As per Para.8 of ISO 15848-1

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This is to certify that the Fugitive Emission Test was performed by the manufacturer under our witness as above, and the results were satisfied within acceptance criteria specified for the target performance class.

Note

The details of the test condition and data are as per manufacturer's Test Report No. KJS-FE-2016-01, which were verified and endorsed by us.

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This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Korea Co., Ltd.

B. I. Lim

Team Lead, Industrial Division

SHJ/yjp

CERTIFICATE OF TYPE ACCEPTANCE TEST (TAT)

Date: 2nd Dec., 2016

Manufacturer : SAMWOO KJS TEC CO., LTD.
Date and Place of Test : 14st ~ 17th Nov., 2016 at the manufacturer's premises, Korea
Manufacturer's Location : 328, Ungnam-Ro, Seongsan-Gu, Changwon-Si, Gyeongsangnam-Do, Korea
Kind of Test : Witness of Type Acceptance Test (TAT)
Test Standard : MESC 77/300_Sep. 2010

Test Valve : ASTM A216 WCB; DN250; Pressure Class 600; Gate Valve

Technical Classification Code:	GA-FW-MG-BD-TE-BB-HT-I10434-ST
Product Description:	Flanged; Flexible Wedge Type; Metal Seated & Graphite Packing; Bolted Bonnet; Bi-Directional; Gate Valve Size & Rating: DN250 & CL600 Designed to ISO 10434 Material Body: ASTM A216 WCB Body Seat Ring : A105+STL Ball: ASTM A216 WCB+STL
Shell Fugitive Emission Class:	B(HS)
Test Temperature Range:	-20°C to +425°C
Brand Name & Model Designation:	SAMWOO KJS TEC CO., LTD. & APGA600BBWD
GA Drawing of TA-Tested valve:	16-0622-1 Rev.0
Manufacturer's Test Report No.:	KJS-TAT-2016-01

This is to certify that Type Acceptance Test (TAT) was performed by the manufacturer under our witness as above, and the Certificate has been issued after successful testing of the valve as per MESC 77/300 and review of the test report.

Note

The details of the test condition and data are as per manufacturer's Test Report mentioned above which were verified and endorsed by us.

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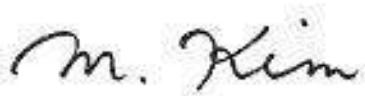
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“ In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.”

Applus Velosi OMS



Min Jae Kim

Representative Director

PG // SI



Certificate No : MD00/0881/0007/2

SAMWOO KJS TEC. CO. LTD.
328, Woongnam-ro. Seongsan-Gu,
Changwon-Si,
Gyeongsangnam-Do,
Korea

has been approved as a manufacturer in accordance with the requirements of
Lloyd's Register for :-

Castings in carbon and carbon-manganese steel
(maximum weight 1 tonnes)

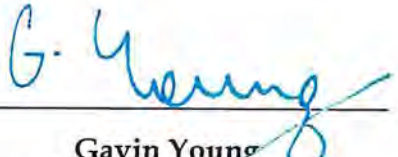
Not approved for weld repairs.

This approval is subject to compliance with the Rules for the Manufacture, Testing
and Certification of Materials.

Lloyd's Register is to be notified of any change that may affect the validity of this
Certificate.

This Certificate is issued to the above manufacturer and is valid until the date
given below.

Valid Until : 04 December 2019
Date of Issue : 03 February 2017


Gavin Young
Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

REFERENCE LIST



Project Name	Customer	Project	Supplied Items	Date	Q'TY	Location
TE-3 Project	GS E&C	PETRONAS	Gate,Globe,Check valve 1500# 20" & Below	25-Apr-16	2,150	Malaysia
Hyundai Chemical Mixed Xylene PJ	HYUNDAE E&C	HYUNDAE OILBANK	Gate,Globe,Check valve 2500# 20" & Below	4-Jan-16	7,250	KOREA
Columbia Pipe Project	Columbia Pipeline Group	Colombia Pipeline Group	Check valve 900# 30" &Below	26-Jan-15	26	Columbia
RPLC Project	HYUNDAE E&C	Refinería Puerto La Cruz	Gate,Globe,Check valve 1500# 24 &Below	3-Feb-15	3,345	VENEZULEA
PB2 75,000MTA REVAMPING PROJECT	Daelim Industrial Co.,	Daelim	Gate,Globe,Check valve 2500# 12 &Below	3-Feb-15	554	KOREA
CPC No.11 DHDS PLANT	CTCI	CPC	Gate,Globe,Check valve 1500# 24 &Below	5-Jun-15	393	TAIWAN
Aramco Cogeneration	SAMSUNG ENG.	Aramco	Gate,Globe,Check valve 600# 24 &Below	30-Mar-15	74	Saudi Arabia
Ruwa's Refinery Expansion PJ (Package 2&7)	GS E&C	TAKEER	Gate,Globe,Check valve 600# 24 &Below	16-Mar-12	10,279	UAE
Ruwa's Refinery Expansion PJ (Package KANDYM EARLY GAS PRODUCTION PROJECT	DAEWOO E&C	TAKEER	Gate,Globe,Check valve 1500# 24" & below	6-Dec-11	4,607	UAE
PTTAC AN & MMA PJ	HYUNDAE ENG.	LUKOIL	Gate,Globe,Check valve 1500# 24" & below	16-Dec-13	537	UZBEKISTAN
Sohar Refinery	CTCI	PTT	Gate,Globe,Check valve 1500# 24 & Below	27-Oct-10	328	Thailand
ARL Upgradation PROJECT / Pakistan	DAELIM E&C	ORPIC	Gate,Globe,Check valve 1500# 24" & below	31-Dec-14	8,000	OMAN
BUTANOL & SYNGAS	HYUNDAE E&C	ATRL	Gate,Globe,Check valve 1500# 24" & below	30-Oct-13	1,037	Pakistan
TALIN POWER PLANT RENEWAL EPC PJ	HYUNDAE E&C	SABUCO	Gate,Globe,Check valve/CF3,WCB,LCC,WCB/150# ~ 1500#/42" & below	23-Sep-13	3,368	SAUDI ARABA
TURKMENBASHI OIL REFINERY PJT	CTCI	Q.T.P.C	Gate,Globe,Check valve/AL-Bronze,CF3,CF3M,CF8/150~300#/36" & below	17-Sep-13	286	TAIWAN
MUSANDAM GAS PLANT PROJECT	HYUNDAE E&C	TMPMR	Gate,Globe,Check valve/CN7M,CF8M,C5,CK20,CW12MW/150# ~600#/30" & below	17-Aug-13	4,535	Turkmenistan
LG Chemical EVA PROJECT	HYUNDAE E&C	OMAN NOC	Gate,Globe,Check valve/CU5MC-CUC,CF8M,4A,LCC/150# ~ 1500#/48" & below	15-Oct-12	3,308	OMAN
DAELIM RMP-2	YNCC	YNCC	Gate,Globe,Check valve/CF8,LCC,WCB/150# ~600#/36"&Below	5-Sep-12	892	Korea
NEXENE PROJECT	DAELIM E&C	PETRON CORP.	Gate,Globe,Check valve/CF8C,CF8M,LCC,WCB/150# ~ 2500#/2"~48" & below	28-Jun-12	10,252	Philippines
BPA PJ	SK E&C	SKI	Gate,Globe,Check valve/WCB,LCC,CF8/150# ~600#/24" & Below	16-Apr-12	609	Korea
Plant Rejuvenation & Revamp 2 (PRR2) Project	LG CHEMCIAL	LG CHEMCIAL	Gate,Globe,Check valve/WCB,CF8,CF8M/150# ~600#/32" & Below	30-Nov-11	2,057	Korea
KOC Pipeline Main PROJECT	HYUNDAE ENG.	PETRONAS	Gate,Globe,Check valve/WCB,CF8M/150# ~ 2500#/24" & below	7-Nov-11	875	Malaysia
MMA 2D-PJ	HYUNDAE E&C	KOC	Gate,Globe,Check valve/LCC,CW6MC,CF8M/150# ~600# /48" & below	27-Sep-11	830	Kuwait
NORTE II MANUAL PJ	HYUNDAE ENG.	HYUNDAE OILBANK	Gate,Globe,Check valve /WCB,LCC,CF8/150~600#/36" & below	15-Sep-11	1,609	Korea
IGD Habshan 5 17TH PHASE	BHI E&C	GE	Gate,Globe,Check valve /WCB,C12A,CF8/150# ~ 1500#/ 20" & Below	6-Sep-11	54	MEXICO
ERC Hydrocracker Plant Project	HYUNDAE E&C	GASCO	Gate,Globe,Check valve/CF8M,CU5MCUC,WCB/150# ~1500#/ 48" & below	22-Aug-11	3,641	UAE
KNPC LPG TRAIN 4	HITACHI PLANT	Egypt	Gate,Globe,Check valve/CF3,CF3,WCB/150# ~600#/24" & below	17-Aug-11	1,289	JAPAN
IRPC PJ	DAELIM E&C	KNPC	Gate,Globe,Check valve/CF3,CF3M,WCB/150# ~600#/42" & Below	28-Feb-11	3,420	Kuwait
SINGAPORE LNG TANK TERMINAL PJ	GS E&C	BAHRAIN POWER	Gate,Globe,Check valve/LCC,WCB,CF8M/150# ~600#/22"&Below	22-Feb-11	1,146	BAHRAIN
SAUDI ARAMCO KARAN PJ	SAMSUNG C&T	S2	Gate,Globe,Check valve/NIAL-Bronze,LCC,CF8M/150# ~600#/32"&Below	14-Jan-11	172	SINGAPORE
HABSHAN PJ-MOV	HYUNDAE E&C	SAUDI ARAMCO	Gate,Globe,Check valve/CF8,CF8,LCC,WCB/600# 24" & below	29-Dec-10	4,936	SAUDI ARABA
ARZEW Refinery Rehabilitation and Adaption	DAEKYOUNG MACHIN	HABSHAN Power	Gate Valve/WCB,CF8M/150# ~600#/36 & Below	31-Aug-10	554	UAE
RGX-6 PJ-Ras Gas Onshore Expansion PJ Phase-2	HYUNDAE E&C	MEW	Gate,Globe,Check valve/C5,CF8M,WCB/150# ~600#/24" & below	25-Aug-10	1,050	Kuwait
	CTJV(Chiyoda/Technip)	RAS GAS	Gate,Globe,Check valve/CF8M,CF3M,CF8,WCB/150# ~600#/36"&Below	30-Dec-07	14,388	Qatar

Principal Reference List of PEACH VALVE

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
JAN. 2014	Kaltim-5	Toyo Engineering / PT. Pupuk Kalimantan Timur	Dual Check Wafer 150# 6"	1	A216 WCB	Indonesia
JAN. 2014	Tongyoung LNG Terminal	Samsung C&T / KOGAS	Dual Check Wafer 125# 4"~44", Gate 150# 4"	23	A395/A351 CF8M	Korea
FEB. 2014	RPLC Deep Conversion	Hyundai E&C / PDVSA(Petroleos de Venezuela S.A.)	Dual Check Lug 300#~600# 2"~12"	12	A216 WCB/A351 CG3M	Venezuela
FEB. 2014	Butanol and Syngas	Daelim Industrial / KSA Butanol Company	Dual Check Wafer/Double Flange 150#~600# 2"~30"	40	A216 WCB/A351 CF3(Cryogenic)	KSA
FEB. 2014	HDL #1 Lube Base Oil	Hyundai Engineering / Hyundai Oilbank	Dual Check Butt Welding/Wafer/Lug 150#~2500# 2"~30"	15	A217 WC6/A216 WCB/A351 CF8C/A105	Korea
APR 2014	ZgM039-1	JEONGWOO/KHNP	Single Plate Wafer 150# 10"~12"	20	A216 WCB	Korea
APR 2014	CBDC TAIL GAS project	Newtems/SECL	Dual Check Wafer Lug 300# 6"~16"	4	A351 CF8M	Korea
APR 2014	Malaysia PRAL FG PJT	Samsung Techwin	Dual Check Retainerless Butt welding 600# 14"	1	A216 WCB	Malaysia
APR. 2014	Samcheok LNG Terminal	Daewoo E&C / KOGAS	Swing Check 150#~300# 2"~6"	27	A351 CF3(Cryogenic)	Korea
APR. 2014	RPLC Deep Conversion	Hyundai E&C / PDVSA(Petroleos de Venezuela S.A.)	Dual Check Butt Welding/Lug 300#~2500# 3"~12"	3	A216 WCB/A351 CG3M	Venezuela
APR. 2014	TOC Expansion II	Samsunf Engineering / TOC Glycol Company	Dual Check Wafer 150#~300# 3"~16"	18	A216 WCB/A351 CF8M	Thailand
AUG 2014	DH-2	Hyosung	Dual Check Retainerless Wafer 150#~600# 10"~34"	15	A216 WCB	Korea
JUN 2014	SAUDI ELASTOMERS	Daelim Industrial/Al-Jubail Petrochemical Company (KEMYA)	Dual Check Wafer/Double Flange 150#~600# 2"~30"	294	A351 CF8M	Saude Arabia
JUN 2014	POSCO ICT	SAVE/POSCO	Dual Check Butt welding 150# 12"	14	A216 WCB	Korea
MAR 2014	Jeddah South PJT	PTK/Atlas Copco	Dual Check Wafer 150# 4"	32	A351 CF3M	Korea
MAR. 2014	Egypt Ethydc Polyethylene Plant(EEPE)	Toyo Engineering / The Egyptian Ethylene and Derivatives Company	Dual Check Lug 150# 3"~16"	13	A216 WCB	Egypt
MAR. 2014	Turkmenbashi Oil Refinery Reconstruction	Hyundai Engineering / Turkmenbashi Oil Processing Complex	Dual Check Wafer 300# 14"	1	A217 C5	Turkmenistan
MAR. 2014	KSA Elastomers	Daelim Industrial / SABIC+Exxon Mobile	Dual Check Wafer/Lug 125#~600# 2"~6"	29	A126 CL.B/A216 WCB/A351 CF8M	KSA
MAR. 2014	Samcheok LNG Terminal	Daelim Industrial / KOGAS	Dual Check Wafer 125# 4"~48"	4	A395	Korea
MAY 2014	Samcheok LNG Terminal	Daewoo E&C / KOGAS	Dual Check Wafer 300# 6"	9	A351 CF8(Cryogenic)	Korea
MAY 2014	O Mon Thermal Power Plant	Daelim Industrial / Vietnam Electricity Power Generation Corporation	Dual Check Wafer 150# 3"~20"	7	A216 WCB/A48-60	Vietnam
MAY 2014	Ulsan Combined Cycle Power Plant	Daelim Industrial	Dual Check Wafer 150# 6"~10"	2	B148 C95800	Korea
MAY 2014	Borouge#3 XLPE	Hyundai E&C	Dual Check Retainerless Wafer 150# 2"~12"	16	A216 WCB	UAE
MAY 2014	Gorgon PJT	PAC	Dual Check Wafer Lug 150# DN150	1	A351 CF8M	Australia
NOV 2014	PTT POSCO PJT	SUNG WOO	Dual Check Retainerless Wafer 150# 2"~8"	13	A351 CF8M	Korea
NOV 2014	TAIF-NK VCC Project	Toyo ENG/PSC TAIF-NK	Dual Check Wafer 150#~600# 2"~18"	393	A216 WCB	Russia
DEC 2014	SK Hanam Energy PJT	HAN ENG/Panasia	Dual Check Wafer 150# 16"	2	A216 WCB	Korea
DEC 2014	GASCO	Petromar Energy Service	Dual Check Wafer 150# 2"~3"	2	A351 CF8M	UAE
Dec. 2014	Thai Binh II Thermal Power Plant	Daelim Industrial / PVN(Petro Viet Nam)	Dual Check Lug 125# 8"	2	A126 CL.B	Vietnam

Principal Reference List 2013

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
DEC. 2013	Installation of Telemetry System	Daelim Industrial / Kuwait Oil Company(KOC)	Dual Check Lug 150# 4"	6	B148 C95800	Kuwait
DEC. 2013	UGCC GSP & Polymer	Samsung Engineering / Uz-Kor Gas Chemical	Dual Check Wafer 150# ~600# 2"-24"	27	A216 WCB/A351 CF8/A352 LCB	Uzbekistan
DEC.2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Wafer 150# 4"-16"	4	A995 6A	Kuwait
DEC. 2013	Samcheok LNG Terminal	Doosan Heavy Industries / KOGAS	Dual Check Wafer 125# 4"-6"	21	A395	Korea
DEC. 2013	Baraka Nuclear Power Plant Unit 1 & 2	Hankook Jungsoo Industries / Korea Electric Power	Dual Check Wafer 150# 2.5"-6"	12	A351 CF8M	U. A. E.
DEC. 2013	Samcheok LNG Terminal	Doosan Heavy Industries / KOGAS	Dual Check Wafer 300# 4"	1	A351 CF8(Cryogenic)	Korea
NOV. 2013	Ammonia & Process OSBL	Tecnimont / Iowa Fertilizer Company	Dual Check Lug/Double Flange 150#-600# 3"-36"	66	WCB/LCB/CF8M/WC6	U. A. E.
NOV. 2013	Sun 1 & 2 Water Treatment System	Hankook Jungsoo Industries / Korea Hydro & Nuclear Power	Dual Check Wafer 150# 2.5"-6"	16	A216 WCB/A351 CF8M	Korea
NOV.2013	Wasit Cogen & Steam Generation	ITT KSA Company / Saudi ARAMCO	Foot Valver 150# 4"	2	A351 CF8M	KSA
NOV.2013	GASCO NGI	Samsung Engineering / GASCO	Dual Check Wafer 150# 8"	2	A216 WCB	U.A.E
NOV.2013	Ruwais Refinery Expansion PKG1	SK E&C / Takreer	Dual Check Lug 150# 6"	1	A216 WCB	U.A.E
NOV. 2013	Turkmenbashi Oil Refinery Reconstruction	Hyundai E&C / Turkmenbashi Oil Processing Complex	Dual Check Wafer 600#, 3"-4"	5	A216 WCB	KSA
OCT. 2013	RAF A2 Independent Water	Hitachi Zosen / Qatar Electricity & Water Company	Dual Check Lug/Double Flange 150#-300# 3"-40"	18	A536/B148 C95800/A216 WCB	Qatar
OCT. 2013	KSA Elastomers	Daelim Industrial / SABIC+Exxon Mobile	Dual Check Wafer/Double Flange/Lug 125#-600# 2"-20"	304	A126/A216 WCB/A351 CN7M/A351 CF8M	KSA
OCT. 2013	Ulsan Combined Cycle Power Plant	Daelim Industrial / Korea East-West Power(EWP)	Dual Check Wafer 150# 6"-8"	2	B148 C95800	Korea
SEP.2013	RAF A2 Independent Water	Metito Overseas / Qatar Electricity & Water Company	Dual Check Lug 150# 3"-16"	33	A536/A351 CF3M/	Qatar
SEP.2013	Yanbu2 Power and Water PKG3	Hanwha E&C / Marafiq	Dual Check Lug 150# 3"-6"	9	A216 WCB	KSA
SEP.2013	RAS TANURA Intergrated Project	Samsung Engineering / United Steel Company	Dual Check Wafer 300# 6"	4	A216 WCB	Bahrain
AUG. 2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Wafer 150#-300# 2"-10"	30	A995 6A	Kuwait
AUG. 2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Double Flange 150#-300# 10"-16"(Non Slam)	28	A995 6A	Kuwait
AUG. 2013	KNPC North LPG Tank Farm(NLTF)	GS E&C / Kuwait National Petroleum Company (KNPC)	Dual Check Double Flange 150#-600# 8"(Non Slam)	24	A352 LCC/A351 CF8M(Cryogenic)	Kuwait
AUG. 2013	Ruwais Refinery Expansion PKG2	GS E&C / Takreer	Dual Check Lug 150# 8"	1	A216 WCB	U. A. E.
JUL. 2013	Musandam Gas Plant	Hyundai Engineering / Oman Oil Co.	Dual Check Lug/Double Flange 150# 4"-12"	5	B148 C95800/A216 WCB	Oman
JUL. 2013	C.G. Aceto(TS-7100)	POSCO Engineering / Tongsuh Petrochemical	Dual Check Wafer 150# 6"	1	A216 WCB	Korea
JUL. 2013	Pyeongtaek LNG Terminal	KOGAS	Dual Check Wafer 150# 48"	1	A395(Rubber Lining)	Korea
JUL. 2013	Sadara Project	Cooper Valves / Jacobs & Shell	Gate Valve 2-6" 150-300#	11	CN7M	U.S.A.
JUN. 2013	2406 Etileño XXI	Technip Italy / Braskem Idesa	Dual Check Lug 150#-600# 6"-28"	5	A216 WCB	Mexico
JUN. 2013	Samcheok LNG Terminal	Doosan Heavy Industries / KOGAS	Dual Check Wafer 125#-150# 3"-48"	77	A126/A395/A216 WCB/A351 CF8(Cryogenic)	Korea
JUN. 2013	UGCC GSP & Polymer	Samsung Engineering / Uz-Kor Gas Chemical	Dual Check Wafer/Double Flange 150#-600# 2"-28"	55	A216 WCB/A351 CF8	Uzbekistan
JUN. 2013	Carbon Black & Delayed Coker	Samsunf Engineering / Takreer	Dual Check Lug 150#-600# 6"-24"	95	A216 WCB/A352 LCC/A351 CF8M	U.A.E.

Principal Reference List 2013

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
MAY 2013	Ruwais Refinery Expansion PKG2	GS E&C / Takreer	Dual Check Lug 300# 6"	2	A216 WCB	U.A.E.
MAY 2013	STC EVA-2	Samsung Engineering / Samsung Total	Dual Check Lug 150# 16"	2	A351 CF8	Korea
MAY 2013	JG Summit Naphtha Cracker	Daelim Industrial / JG Summit Petrochemical Corporation	Dual Check Wafer 150# 12"	1	A216 WCB	Philippines
MAY 2013	New SPM Construction	Daewoo E&C / S-Oil	Dual Check Double Flange 150# 42"	2	A216 WCB	Korea
MAY 2013	Yanbu2 Power and Water PKG3	Hanwha E&C / Marafiq	Dual Check Wafer/Double Flange 150# 3"-14"	34	A216 WCB/A351 CF8M	KSA
APR. 2013	Ulsan Combined Cycle Power Plant	Daelim Industrial / Korea East-West Power(EWP)	Dual Check Wafer 150# 8"-34"	3	B148 C95800	Korea
APR. 2013	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer 150# 4"	8	A351 CF8M/GCD450/B148 C95800	KSA
APR. 2013	Shaybah Increase Gas Handling Capacity	Samsung Engineering / Aramco	Dual Check Double Flange, Lug 150#-1500# 2"-36"	526	WCB, CF8M, 5A, CK-3MCUN	KSA
APR. 2013	Samcheok LNG Terminal	GS E&C / KOGAS	Dual Check Wafer 150# 12", 300# 6"	4	A395/A351 CF8(Cryogenic)	Korea
MAR. 2013	Musandam Gas Plant	Hyundai Engineering / Oman Oil Co.	Dual Check Lug 150# 12"	1	A216 WCB	Oman
MAR. 2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Wafer 150# 2"-3"	7	A995 6A	Kuwait
MAR. 2013	Ruwais Refinery Expansion PKG1	SK E&C / Takreer	Dual Check Lug 300# 6"	1	A352 LCB	U.A.E.
MAR. 2013	Ruwais Refinery Expansion PKG2	GS E&C / Takreer	Dual Check Lug 300# 6"	1	A216 WCB	U.A.E.
MAR. 2013	Ruwais Refinery Expansion PKG2	GS E&C / Takreer	Dual Check Lug 300# 6"-10"	7	A216 WCB, A352 LCC	U.A.E.
FEB. 2013	Cilacap RFCC	SPX Flow Technology / PT. Pertamina(Persero)	Dual Check Wafer 150# 2"-8"	24	A216 WCB	Indonesia
FEB. 2013	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer 300# 8"	1	A352 LCC	U.A.E.
FEB. 2013	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer 300# 6"	2	A352 LCC	U.A.E.
FEB. 2013	IPC EVA Plant & Utilities	GS E&C / International Polymers Company	Dual Check Wafer 150# 4"	1	A352 LCC	KSA
FEB. 2013	BASF Ultrason 1 Yeosu	GS E&C / BASF	Dual Check Wafer 300# 4"	1	A216 WCB	Korea
JAN. 2013	STC EVA-2	Samsung Engineering / Samsung Total	Dual Check Lug 150# 10#-24#	3	A216 WCB(EPDM seat)/A351 CF8M	Korea
JAN. 2013	Ruwais Refinery Expansion PKG1	SK E&C / Takreer	Dual Check Lug 300#-600# 12"	3	A216 WCB	U.A.E.
JAN. 2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Wafer/Lug 150#-300# 2"-24"	14	A995 6A	Kuwait
JAN. 2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Lug 300# 6"	15	A995 6A	Kuwait
JAN. 2013	Ruwais Refinery Expansion PKG2	GS E&C / Takreer	Dual Check Lug 150#-600# 6"-30"	49	WCB/LCC/CF8M/CF8C/WC9/CN7M	U.A.E.
JAN. 2013	Samcheok LNG Terminal	Daelim Industrial / KOGAS	Dual Check Wafer 300# 4"-6"	8	A351 CF8(Cryogenic)	Korea
JAN. 2013	Samcheok LNG Terminal	Daelim Industrial / KOGAS	Dual Check Wafer 125#-150# 2"-12"	15	A395/A216 WCB	Korea
SEP.2013	STC EVA-2	Samsung Engineering / Samsung Total	Dual Check Wafer 600# 10"	1	A216 WCB, A217 CA15	Korea
JUL.2013	GORGON LNG	Pipeline Actuation & Control	Gate/Globe/Dual Check Lug 150# 2"-3"	16	A351 CF8M	Australia
JUN. 2013	Gas Plant Development	Noton BV	Dual Check Wafer 150#-900# 2"-12"	37	A890 4A, A351 CF8M, A352 LCB	Netherlands
JUN. 2013	RAFA2	Metito Overseas Ltd.	Dual Check Lug 150# 3"-16"	33	GCD450, A351 CF3M	U.A.E.

Principal Reference List 2013

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
MAY 2013	RAFA2	Hitachi Zosen / Qatar Electricity & Water Company	Dual Check Double Flange, Lug 150#~300# 3"-40"	18	A536 65-45-12, B148 C95800, A216 WCB	Qatar
APR. 2013	GORCON LNG	Pipeline Actuation & Control	Dual Check Wafer 150# 3"	1	B148 C95800	Australia
APR. 2013	Carbon Black & Delayed Coker	Sofinter s.p.a / Takreer	Dual Check Lug 150# 12", 600# 8"-14"	16	A216 WCB, A217 CA15, A217 WC9	U.A.E.
MAR. 2013	N/A	Korea National Oil Corporation	Dual Check Wafer 150# 4"	1	A216 WCB	Korea
MAR. 2013	Musandam Gas Plant	Hyundai Engineering / Oman Oil Co.	Dual Check Lug 150# 4"	4	B148 C95800	Oman
MAR. 2013	JG Summit Naphtha Cracker	Daelim Industrial / JG Summit Olefins	Dual Check Wafer 150# 12"	1	A216 WCB, A217 CA15	Philippines
MAR. 2013	Shaybah Increase Gas Handling Capacity	Samsung Engineering / Aramco	Dual Check Double Falnge, Lug 300#~900# 2"-16"	178	A216 WCB, A351 CF8M, A351 CK3MCUN	KSA
MAR. 2013	GORCON LNG	Pipeline Actuation & Control	Dual Check Wafer 150# 3"	1	B148 C95800	Australia
JAN. 2013	KOC Wara Pressure Maintenance	GS E&C / Kuwait Oil Company(KOC)	Dual Check Wafer/Lug 150#~300# 3"-24"	29	A995 6A	Kuwait
JAN. 2013	Sadara Project	Cooper Valves / Jacobs & Shell	Gate/Swing Check 150#~300# 2"-24"	96	A351 CN7M	U.S.A.
JAN. 2013	Cliff Head Project	Pipeline Actuation & Control / Wooley Parsons	Dual Check Lug 1500# 4"	2	A216 WCB	Australia

Principal Reference List 2012

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
DEC. 2012	JG Summit Naphtha Cracker	Daelim Industrial / JG Summit Petrochemical Corporation	Dual Check Wafer 300# 8"	1	A216 WCB	Philippines
DEC. 2012	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer 150# 3"-6"	35	A351 CF8M, A216 WCB	KSA
DEC. 2012	Musandam Gas Plant	Hyundai Engineering / Oman Oil Co.	Dual Check Lug/Double Flange 150#~600# 3"~36"	47	A216 WCB/A890 4A/A494/A351 CF8M	Oman
DEC. 2012	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer, Double Flanged 150#~600# 3"~18"	46	CF8M, WCB, CA15, LCB, 4A	KSA
DEC. 2012	BASF Ultrason 1 Yeosu	GS E&C / BASF	Dual Check Wafer 150#, 300# 2", 8"	3	CF8,WCB,CA15	Korea
DEC. 2012	IPC EVA Plant & Utilities	GS E&C / International Polymers Company	Dual Check Wafer 300# 3"-6"	2	A352 LCC	KSA
DEC. 2012	Ruwais Refinery Expansion PKG2	GS E&C / Takreer	Dual Check Lug 150#~600# 6"~10"	35	A216 WCB/A217 C5 WC9 WCB LCC	UAE
DEC. 2012	Inter Refineries Pipeline-II(IRP-II)	GS E&C / Takreer	Dual Check Double Flanged 150#~300# 6"~14"	2	A216 WCB	KSA
NOV. 2012	Shah Gas Development PKG4 U&O	Samsung Engineering / ADGDC	Dual Check Wafer 150# 8"	1	A536	UAE
NOV. 2012	Ruwais Refinery Expansion PKG1	SK E&C / Takreer	Dual Check Lug 150# 6"	1	A216 WCB	UAE
NOV. 2012	Lamson JOC FPSO	GJ Engineering / Global Process System	Dual Check Wafer/Lug 150#~300# 2"~6"	18	A216 WCB/B148 C95800	Malaysia
OCT. 2012	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer 300# 6"	1	A216 WCB	UAE
OCT. 2012	RRE Project	GS E&C / Takreer	Dual Check Lug 150# 4"~20"	32	WCB,CA15,LCB	UAE
OCT. 2012	RAS TANURA Intergrated Project	Cooper Valves / Dow Chemical & Aramco	Gate, Swing 1.5~10" 150~300#	132	Alloy 20, CF8M	U.S.A.
OCT. 2012	CONVERSION UG-KNIGHTSBRIDGE DEVELOPMENT	PJ Valves	Dual Check Hub 2500# 12"	3	A352 LCC/A995 4A	UK
OCT. 2012	Effluent Water Injection Phase 1	Petrofac / Kuwait Oil Company(KOC)	Dual Check Lug 300# 18"	1	A995 5A	Kuwait
OCT. 2012	VGO FCC	GS E&C / GS Caltex	Dual Check Double Flange 150# 18"	2	A216 WCB	Korea
OCT. 2012	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer 150# 3"~10"	9	A351 CF8M/A395	KSA
SEP. 2012	Group III Base Oil Production Facilities	Hyundai Engineering / Takreer	Dual Check Lug 300# 6"	1	A216 WCB	UAE
SEP. 2012	ABEOP	Toyo Engineering / Albayroni	Dual Check Lug 150# 4"	3	A216 WCB	KSA
SEP. 2012	No.3 AEU GT-BTX Revamp	SK E&C / SK Global Chemical	Dual Check Lug 300# 12"	2	A216 WCB	Korea
SEP. 2012	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer 150# 6"~10"	4	A216 WCB	UAE
SEP. 2012	Sadara Project	Cooper Valves / Jacobs	Gate Valve 2~6" 150~300#	11	CN7M	U.S.A.
SEP. 2012	Habshan-5 Utilities & Offsites	Hyundai E&C / GASCO	Dual Check Double Flange 600# 24"	1	A352 LCB	UAE
SEP. 2012	Gulf JP(GNLL)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2"~16"	23	A126 CL.B	Thailand
SEP. 2012	BASF Ultrason 1 Yeosu	GS E&C / BASF	Dual Check Wafer 150# 2"~6"	20	A351 CF8M/A351 CF8/A216 WCB	Korea
SEP. 2012	STC EVA-2	Samsung Engineering / Samsung Total	Dual Check Lug 150#~600# 10"~28"	18	A216 WCB	Korea
SEP. 2012	S&B and Shell Project	Cooper Valves / S&B Shell	Gate 24" 150#	2	Inconel 625	U.S.A.

Principal Reference List 2012

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
AUG. 2012	Pyeongtaek LNG Terminal	KOGAS	Dual Check Wafer 150# 32"-44"	2	A536	Korea
JUL. 2012	ABEOP	Toyo Engineering / Albayroni	Dual Check Lug 150#~900# 4"	4	A216 WCB/A352 LCB	KSA
JUL. 2012	Gulf JP(GNNK)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2"-16"	33	A126 CL.B	Thailand
JUL. 2012	LPG Train-4	Daelim Industrial / Kuwait National Petroleum Company(KNPC)	Dual Check Wafer 300# 16"	4	A352 LCB	Kuwait
JUL. 2012	ABEOP	Toyo Engineering / Albayroni	Dual Check Lug 150#~900# 3"-16"	11	A216 WCB/A217 WC6/A351 CF8M	KSA
JUL. 2012	KPB BPA	Daelim Industrial / Kumho P & B Chemical	Dual Check Wafer 150#~300# 8"-32"	5	A216 WCC	Korea
JUL. 2012	Shah Gas Development PKG4 U&O	Samsung Engineering / ADGDC	Dual Check Wafer/Double Flange 150#~300# 8"-20"	14	A536/A216 WCB/A351 CF8M	UAE
JUL. 2012	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafe 150# 3"-14"	62	A216 WCB/A351 CF8M	KSA
JUL. 2012	Ruwais Refinery Expansion PKG7	GS E&C / Takreer	Dual Check Lug 150# 8"-10"	9	A216 WCB	UAE
JUL. 2012	JG Summit Napththa Cracker	Daelim Industrial / JG Summit Petrochemical Corporation	Dual Check Wafer 150#~300# 6"-30"	6	A216 WCB	Philippines
JUL. 2012	SOCC AA	Samsung Engineering / KSA Organometallic Chemicals Company	Dual Check Wafer 125#3"-4""	2	A126 CL.B	KSA
JUL. 2012	Gulf JP(TSPP, GNK2)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2.5"-14"	16	A126 CL.B/A536/A351 CF3M	Thailand
JUL. 2012	RAS TANURA Intergrated Project	Cooper Valves / Shell	Gate 150# 24"	2	Inconel 625	USA
JUL. 2012	Rewias Refinery Expansion PKG2	GS E&C / Takreer	Lug 150#~600#, 6-30"	52	WCB, CA15, C5, LCC, CF8C, CF8M, CN7M	UAE
JUL. 2012	Conversion UG Knightsbridge Development	PJ Valve	Hub End Wafer Check Valve 2500# 12"	3	LCC, 4A	
JUN. 2012	STC EVA	Samsung Engineering / Samsung Total	Lug 150#~600#, 10-28"	18	WCB, CA15	Korea
JUN. 2012	BASF Ultrason Yeosu	GS E&C / BASF	Wafer 150#, 4"-6"	20	WCB, CA15, CF8, CF8M	Korea
JUN. 2012	Gulf JP(GKP2)	Toyo Engineering / Gulf JP	Dual Check Double Flange 125# 14"	2	A536	Thailand
JUN. 2012	PBI Butadiene Extraction Plant	Toyo Engineering / PT Petrokimia Butadiene Indonesia	Dual Check Wafer 150# 2"-20"	10	A216 WCB	Indonesia
JUN. 2012	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer 300# 12"	2	A216 WCB	UAE
JUN. 2012	KPB BPA	Daelim Industrial / Kumho P & B Chemical	Dual Check Wafer 150#~300# 8"-14"	8	A216 WCC/A351 CF8M	Korea
JUN. 2012	Gulf JP(TSPP, GCRN)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2.5"-14"	16	A126 CL.B/A536	Thailand
JUN. 2012	RRE PKG 3	Samsung Engineering / Takreer	Dual Check Wafer 300# 12"	2	WCB, CA15	UAE
JUN. 2012	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer 150# 4"-6"	8	A351 CF8M/A216 WCB	KSA
JUN. 2012	Fertil 2 Ammonia/Urea Expansion	Samsung Engineering / Ruwais Fertilizer Industries(Fertil)	Dual Check Wafer 150# 3"	2	A351 CF8	UAE
JUN. 2012	Takreer Inter Refinery Pipeline-2	GS E&C / Takreer	Dual Check Double Flanged 150#~300# 6"-16"	33	A216 WCB	UAE
JUN. 2012	5 Nitric Acid Plant	Hanwha E&C / Huchems Fine Chemical	Dual Check Wafer 150#~1500# 3"-24"	15	A216 WCB/A351 CF8/A217 WC6	Korea
JUN. 2012	Borouge 3 Utilities & Offsites	Hyundai E&C / Borouge	Dual Check Wafer 600# 6"	2	A351 CF3(Cryogenic)	UAE

Principal Reference List 2012

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
MAY 2012	Turkmenistan Gas Desulfurization Plant	Hyundai Engineering / Turkmengas	Dual Check Wafer 150# 6"	1	A216 WCB	Turkmenistan
MAY 2012	VGOFCC	GS E&C / GS Caltex	Dual Check Wafer 300# 6"	1	A216 WCB	Korea
MAY 2012	IPC EVA Plant & Utilities	GS E&C / International Polymers Company	Dual Check Wafer 300#~600# 4"~8"	6	A352 LCC	KSA
MAY. 2012	Fertil Expansion(Fertil-2)	Samsung Engineering / Ruwais Fertilizer Industries(Fertil)	Dual Check Double Flanged, Wafer 150#~2500# 3"~20"	17	WCB, CA15, CF8	UAE
MAY. 2012	Ruwais Refinery Expansion PKG1	SK E&C / Takreer	Dual Check Lug 150#~600# 6"~24"	27	A216 WCB/A217 WC9/A352 LCC	UAE
MAY 2012	ABEOP	Toyo Engineering / Albayroni	Lug 150#, 900#, 4"	7	WCB, CA15, WC6, CF8M, LCB	Saudi
APR. 2012	Musandam Gas Plant Project	Hyundai Engineering / Oman Oil Company	Wafer, Lug 150#~600#, 4"~36"	46	WCB, LCB, CF8M, 4A, CU5MCUC, C95800	Oman
APR. 2012	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer/Lug 150# 8"~14"	6	A351 CF8M/B148 C95400 WCB	UAE
APR. 2012	PBI Butadiene Extraction Plant	Toyo Engineering / PT Petrokimia Butadiene Indonesia	Dual Check Wafer 150#~600# 2"~8"	33	A216 WCB	Indonesia
APR. 2012	Gulf JP(TSPP, GNLL)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2.5"~14"	16	A126 CL.B/A536	Thailand
APR. 2012	Inter Refineries Pipeline-II(IRP-II)	GS E&C / Takreer	Dual Check Double Flange 150#~900# 6"~30"	94	A216 WCB	UAE
APR. 2012	Fertil 2 Ammonia/Urea Expansion	Samsung Engineering / Ruwais Fertilizer Industries(Fertil)	Dual Check Wafer 150#~1500# 3"~20"	8	A351 CF8/A216 WCB/A217 C12A/A217 WC6	UAE
APR. 2012	Gladstone LNG	PAC	Dual Check Wafer/Double Flange 150#~1500# 3"~42"	63	A216 WCB/A352 LCB/A351 CF8M/A351 CF8C	Austalia
MAR 2012	Sulb Steel Mill	Samsung Engineering / United Steel Company	Dual Check Wafer 150# 16"	1	A216 WCB	KSA
MAR 2012	Gulf JP(TSPP, GKP2)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2.5"~14"	19	A126 CL.B/A536/A351 CF3M	Thailand
MAR 2012	Pyeongtaek LNG Terminal	Daewpp E&C / KOGAS	Dual Check Wafer 125# 12"	1	A395	Korea
MAR 2012	Gulf JP(TSPP, GKP1)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2.5"~14"	16	A126 CL.B/A536	Thailand
MAR 2012	Tongsuh No.4 AN	Daelim Industrial / Tongsuh Petrochemical	Dual Check Wafer 150# 4"~6"	2	A216 WCB	Korea
MAR. 2012	IRP-II	GS E&C / Takreer	Dual Check Double Flanged, 150#~900# 6"~30"	123	WCB, CA15	UAE
MAR 2012	Gulf JP(TSPP, GKP2 GTLC, GNNK)	Toyo Engineering / Gulf JP	Dual Check Wafer/Double Flange 125# 2.5"~14"	56	A126 CL.B/A536/A351 CF3M	Thailand
MAR 2012	Borouge 3 Utilities & Offsites	Hyundai E&C / Borouge	Dual Check Wafer 150# 72"	6	A216 WCB	UAE
MAR 2012	Fertil 2 Ammonia/Urea Expansion	Samsung Engineering / Ruwais Fertilizer Industries(Fertil)	Dual Check Wafer 150# 3"~4"	3	A351 CF8	UAE
MAR 2012	Borouge 3 Utilities & Offsites	Hyundai E&C / Borouge	Dual Check Wafer 150# 64"	8	A216 WCB	UAE
FEB. 2012	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer 150# 3"~8"	13	A351 CF8M	Saudi
FEB. 2012	Sulb Steel Mill	Samsung Engineering / United Steel Company	Dual Check Wafer 150# 2"~12"	15	A216 WCB	Saudi
FEB. 2012	SOCC AA	Samsung Engineering / Saudi Organometallic Chemicals Company	Dual Check Wafer 125#~300# 2"~12"	10	A126 CL.B/A216 WCB	Saudi
FEB. 2012	Skikda Refinery Rehabilitation & Adaptation	Samsung Engineering / Sonatrach Activite Aval-Division Raffinage	Dual Check Double Flange 125# 3"~4"	3	A216 WCB	Algeria
FEB. 2012	Skikda Refinery Rehabilitation & Adaptation	Samsung Engineering / Sonatrach Activite Aval-Division Raffinage	Dual Check Double Flange 150# 4"~14"	4	A216 WCB	Algeria

Principal Reference List 2012

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
FEB. 2012	Sulb Steel Mill	Samsung Engineering / United Steel Company	Dual Check Double Flange, Wafer 150# 2"-16"	14	WCB, CA15,	Saudi
FEB. 2012	5NA	Hanwha E&C / Hanwha Huchems	Dual Check Wafer 150#~ 1500#, 3"-14"	15	WCB, CA15, CF8, CF3, WC6	Korea
JAN. 2012	Gladston LNG	Pipeline Actuation & Control / Bechtel	Wafer, Lug, Double Flanged 150# ~1500# 3" ~42"	109	WCB, LCB, CF8C, CF8M	Australia
JAN. 2012	KPB BPA	Daelim Industrial / Kumho P & B Chemical, Inc.	Dual Check Wafer 150#, 300#, 8"-14"	8	WCC, CF8M, CA15	Korea
JAN. 2012	IPC EVA	GS E&C/ International Polymers Company	Dual Check Wafer 300#, 600#, 4"-8"	6	LCC, CF8M	KSA
JAN. 2012	Shah Gas PKG 4 U & O	Samsung Engineering / Al Hosn Gas	Dual Check Wafer 150#, 300#, 8"-20"	10	WCB, A536, LCB, CF8M, CA15	UAE
JAN. 2012	Ruwais Refinery Expansion PKG3	Samsung Engineering / Takreer	Dual Check Wafer/Double Flange 150#~600# 6"-30"	38	A216 WCB/A351 CF8MA352 LCC/A148 C95400	UAE
JAN. 2012	PBI Butadiene Extraction Plant	Toyo Engineering / PT Petrokimia Butadiene Indonesia	Dual Check Wafer 150#~600# 2"-20"	96	A216 WCB	Indonesia
JAN. 2012	Ruwais Refinery Expansion PKG3	Samsung Engineering /Takreer	Dual Check Wafer,Lug,Double Flange 150#~900#, 6"-36"	65	CF8M, C95400,WCB, WC9, LCC,	UAE

Principal Reference List 2011

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
DEC. 2011	SPGD PKG 17 & 18	Kangwon B & E / Petropars	Dual Check Wafer 150# 48"	4	WCB, CA15	Iran
DEC. 2011	Shaybah PKG 4	Samsung Engineering / Saudi ARAMCO	Dual Check Lug 150# ~ 2500# 2"-36"	559	WCB, CF8M, CK3MCuN, Inconel 625, CA15, 5A, 4A	KSA
NOV. 2011	SOCC AA	Samsung Engineering / KSA Organometallic Chemicals Company	Dual Check Wafer 125#~300# 2"-12"	12	WCB, CA15, Bronze, A216 Cl B	KSA
NOV. 2011	NA (KSA ARAMCO Order)	Global Trade Links / Aramco	Dual Check Wafer 300# 10"	3	CF8M	KSA
OCT. 2011	RAS TANURA INTEGRATED PROJECT	Velan ABV S.p.A	Dual Check Wafer 150# ~ 600# 2"-10"	11	WCB, LCC	Italy
SEP. 2011	Ma'aden Aluminum Rolling Mill	Samsung Engineering / Ma'aden	Dual Check Wafer 150# 2"-14"	135	CF8M, Al Bronze, WCB, CF8, A395	KSA
SEP. 2011	Gorgon LNG	H. I. Fraser Group / Chevron Australia Pty Ltd	Dual Check Lug 150# 3"-10", Globe, Gate	183	Al Bronze, CF8M, WCB	Australia
SEP. 2011	LDPE Ruwais(UAE) EPC Borouge3	Samsung Engineering / Tecniment / Abu Dhabi Polymers Company Limited (Borouge)	Dual Check Lug 150#~600# 6"-40"	29	WCB, LCB, CF8M	UAE
SEP. 2011	PBI BDE	Toyo Engineering / PT. Petrokimia Butadiene Indonesia (PBI)	Wafer Check Valve(150#~600 2"-20")	129	WCB, CA15	Indonesia
SEP. 2011	Borouge	Hyundai E&C / Borouge	Wafer Check Valve(150#~600 6"-72")	16	WCB, CF8, CF8M, AL-Bronze	UAE
AUG. 2011	Effluent Water Injection Phase 1 & Seawater Injection Phase 2	Petrofac / Kuwait Oil Company (KOC)	Dual Check Lug 150# ~ 2500# 2"-30"	173	5A, 4A	Kuwait
AUG. 2011	KOC Pipeline	Hyundai E&C / Kuwait Oil Company(KOC)	Dual Check Double Flanged 300# 36", 600# 12"	5	WCB, LCC, CF8M	KSA
AUG. 2011	Sadara Project	Cooper Valves / Jacobs	Gate Valve 2~6" 150~300#	11	CN7M	U.S.A.
AUG. 2011	Dongsuh An	Daelim Industrial / Dongsuh Petrochemical Corp.	Dual Check Wafer 150# 24", 28", 36" 600# 12"	12	WCB, CA15	Korea
NOV. 2011	HPC GE	Lotte E&C / Honam Petrochemical Corp.	Dual Check Wafer 150#~300# 2"-4", Single Plate 150# 2"-18"	34	A216 WCB/A351 CF8	Korea
JUN. 2011	South Par Project	PM Piping	Dual Check , Gate, Globe, Swing Check	3784	WCB, WC6, CF8C	IRAN
JUN. 2011	HCC PVC	Hanwha E&C / Hanwha Chemical Corp.	Dual Check Wafer 150# 2", 10"	2	WCB, CF8M, CF3M	Korea
JUN. 2011	GSC VGO FCC	GS E&C / GS Caltex	Dual Check Wafer 150# 16"	1	WCB, CA15	Korea
JUN. 2011	Pyeongtaek LNG	Daewoo E&C / KOGAS	Dual Check Wafer 300# 6"	3	CF8M [CRYOGENIC]	Korea
JUN. 2011	2x60 Merak CFPP	Daewoo Engineering / PT. Merak Energy	Dual Check Wafer 150# 3", 10"	4	Ductile, AL-BC, WCB, CA15	Indonesia
JUN. 2011	BSP	SK E&C / SK Innovation	Dual Check Lug 150#, 6"-12"	7	WCB, CA15	Korea
JUN. 2011	Ruwais Refinery Expansion	Hitachi Zosen / Samsung Engineering / Takreer	Dual Check Check Valve	120	WCB LCB CF8M Ni-Albronze	UAE
JUN. 2011	SK GAS TANK	SK E&C / SK Energy	Dual Check Lug 150#, 300#, 6"-12"	65	A351 CF8M, GCD450, B148 C95800	Korea
MAY 2011	Habshan 5	Tecnimont / JGC-Tecnimont Joint Venture	Dual Check Check Valve Jacket Type	8	WCB, CF8M	UAE
MAY 2011	Group III Base Oil Production	Hyundai Engineering / Takreer	Dual Check Lug 150#~1500#, 3"-10"	8	WCB, CA15	UAE
MAY 2011	P2	Hyundai Engineering / Honam Petrochemical Corp.	Dual Check Wafer 150#, 24"	5	WCB, CA15	Korea
MAY 2011	SBPA	Daewoo Engineering / Samyang Inochem Corp.	Dual Check Wafer 150#, 12", 14", 20", 30"	7	WCB, CA15, CF8	Korea

Principal Reference List 2011

Month/Year	Project Name	Client/End User	Valve Description	Q'ty	Material	Destination
MAY 2011	BAPCO	GS E&C / The Bahrain Petroleum Company	Dual Check Lug 150#, 20"	3	CF3M	Bahrain
MAY 2011	TAC	SK E&C / SK Energy	Dual Check Lug 150#, 6"-20"	12	WCB, CA15, CF8	Korea
APR. 2011	TNP II	Federal Hardware and Engineering	Dual Check Check Valve, Gate, Globe, Swing Check Valve	86	WCB, LCB, Al-Bronze, CF8M	Singapore
APR. 2011	EVA	Hanwha E&C / Hanwha Chemical	Dual Check Wafer 150#, 20"	1	WCB, CA15	Korea
MAR. 2011	Ruwais 4th NGL Train Project	Petrofac International / Abu Dhabi Gas Industries Ltd	Dual Check Wafer, Lug, 150# 4	4	HASTELLO Y (A494 CW12MW)	UAE
FEB. 2011	Turkmenistan Gas Desulfurization Plant	Hyundai Engineering / Turkmangas	Dual Check Wafer, Jacket 150#~1500#, 2"~32"	49	WCB, CA15, LCC, CF8M	Turkmenistan
FEB. 2011	Ruwais Refinery Exapnsion PKG7	GS E& C/ Takreer	Dual Check Lug 150#, 6"-20"	19	WCB, LCC	UAE
FEB. 2011	Ruwais Refinery Exapnsion PKG3	Samsung Engineering / Takreer	Dual Check Wafer, Lug, Double Flanged 150#~900#, 6"-80"	255	WCB, AL BC, CF8M, LCB, LCC	UAE
JAN. 2011	Fertil Fertilizer	Samsung Engineering / Ruwais Fertilizer Industries	Dual Check Wafer 150#~1500#, 3"~24"	207	WCB, CF8, CA15, CF8M, LCB, C12A	UAE

Principal Reference List 2011

Month/Year	Project Name	Country	Client/End User	Valve Description	Material	Destination
DEC. 2011	SPGD PKG 17 & 18	Iran	Kangwon B & E / PETROPARS	Dual Check Wafer 150# 48"	WCB, CA15	Iran
DEC. 2011	Shaybah PKG 4	Saudi	Samsung Eng / ARAMCO	Dual Check Lug 150# ~ 2500# 2"~36"	WCB, CF8M, CK3MCuN, Inconel 625, CA15, 5A, 4A	Saudi
DEC. 2011	Shaybah PKG 3	Saudi	Samsung Eng / ARAMCO	Dual Check Lug 150# 2"	WCB, CF8M	Saudi
NOV. 2011	NA (ARAMCO Order)	Saudi	Global Trade Links / ARAMCO	Dual Check Wafer 300# 10"	CF8M	Saudi
OCT. 2011	Epic of Block-4 Rise Platform & Future Rise	Italy	VELAN ABV S.p.A	Dual Check Wafer 150# ~ 600# 2"~10"	WCB, LCC	Italy
SEP. 2011	Gorgon LNG Project	Australia	H. I. Fraser Group / Chevron Australia Pty Ltd	Dual Check Lug 150# 3"~10", Globe, Gate	Al Bronze, CF8M, WCB	Australia
SEP. 2011	LDPE Ruwais(UAE) EPC Borouge3	U.A.E	Samsung ENG / Tecniment / Abu Dhabi Polymers Company Limited (Borouge)	Dual Check Lug 150#~600# 6"~40"	WCB, LCB, CF8M	UAE
SEP 2011	PBI BDE	Indonesia	Toyo Korea/ PT. PETROKIMIA BUTADIENE INDONESIA (PBI)	Wafer Check Valve(150#~600 2"~20")	WCB, CA15	Indonesia
SEP 2011	Borouge	UAE	Hyundai E&C/ Borouge	Wafer Check Valve(150#~600 6"~72")	WCB, CF8, CF8M, AL-Bronze	UAE
AUG. 2011	Effluent Water Injection Phase 1 & Seawater Injection Phase 2	Kuwait	KUWAIT OIL COMPANY (K.S.C) /PETROFAC	Dual Check Lug 150# ~ 2500# 2"~30"	A995 5A, A995 4A	Kuwait
AUG 2011	KOC Pipeline	Kuwait	Hyundai E&C/ KOC	Dual Check Double Flanged 300# 36", 600# 12"	WCB, LCC, CF8M	UAE
AUG 2011	Dongsuh An	Korea	Daelim Industrial / Tongsuh Petrochemical Corp.	Dual Check Wafer 150# 24", 28", 36" 600# 12"	WCB, CA15	Korea
AUG 2011	HPC GE	Korea	Lotte E&C / Hanam Petrochemical Corp.	Wafer 150# 2"~6", 300# 2"~6" Navi Lite 150# 2"~18"	WCB, CF8, CF8M	Korea
JUN. 2011	South Par Project	Netherlands	PMPIPING	Dual Check , Gate, Globe, Swing Check	WCB, WC6, CF8C	IRAN
JUN 2011	HCC PVC	Korea	Hanwha E&C / Hanwha Chemical Corp.	Dual Check Wafer 150# 2", 10"	WCB, CF8M, CF3M	Korea
JUN 2011	GSC VGOFCC	Korea	GS E&C/ GS Caltex	Dual Check Wafer 150# 16"	WCB, CA15	Korea
JUN. 2011	Pyundtaek Gas Terminal	Korea	Daewoo E&C / KOGAS	Dual Check Wafer 300# 6"	CF8M [CRYOGENIC]	Korea
JUN 2011	2x60 Merak CFPP	Indonesia	Daewoo Engineering/ PT. Merak Energy	Dual Check Wafer 150# 3", 10"	Ductile, AL-BC, WCB, CA15	Indonesia
JUN 2011	BSP	Korea	SK E&C/ SK Innovation	Dual Check Lug 150#, 6"~12"	WCB, CA15	Korea
Jun 2011	Ruwais Refinery Expansion	UAE	Hitachi Zosen / Samsung / Takreer	Dual Check Check Valve	WCB LCB CF8M	Japan
JUN 2011	SK GAS TANK	Korea	SK E&C/ SK Energy	Dual Check Lug 150#, 300#, 6"~12"	WCB, CA15	Korea
MAY 2011	Habshan 5	UAE	Tecnimont /JGC-Tecnimont Joint Venture	Dual Check Check Valve Jacket Type	WCB and CF8M	UAE
MAY 2011	Goup III Base Oil Production	UAE	Hyundai Engineering/ Takreer	Dual Check Lug 150#~1500#, 3"~10"	WCB, CA15	UAE
MAY 2011	P2	Korea	Hyundai Engineering / Honam Petrochemical Corp.	Dual Check Wafer 150#, 24"	WCB, CA15	Korea
MAY 2011	SBPA	Korea	Daewoo Engineering / Samyang Inochem Corp.	Dual Check Wafer 150#, 12", 14", 20", 30"	WCB, CA15, CF8	Korea
MAY 2011	BAPCO	Bahrain	GS E&C/ The Bahrain Petroleum Company	Dual Check Lug 150#, 20"	CF3M	Bahrain
MAY 2011	TAC	Korea	SK E&C/ SK Energy	Dual Check Lug 150#, 6"~20"	WCB, CA15, CF8	Korea
APR. 2011	TNP II	Vietnam	Federal Hardware and Engineering	Dual Check Check Valve, Gate, Globe, Swing Check Valve	WCB, LCB, Al-Bronze, CF8M	Singapore
APR. 2011	EVA	Korea	Hanwha E&C/ Hanwha Chemical	Dual Check Wafer 150#, 20"	WCB, CA15	Korea
MAR. 2011	Ruwais 4th NGL Train Project	UAE	Petrofac International / ABU DHABI GAS INDUSTRIES LTD	Dual Check Wafer, Lug, 150# 4	HASTELLOYS (A494 CW12MW)	UAE
FEB. 2011	Turkmenistan Gas Desulfurization Plant	Turkmenistan	Hyundai Engineering/ Turmangas	Dual Check Wafer, Jacket 150#~1500#, 2"~32"	WCB, CA15, LCC, CF8M	Turkmenistan
FEB. 2011	Ruwais Refinery Exapnsion PKG7	UAE	GS E&C/ Takreer	Dual Check Lug 150#, 6"~20"	WCB, LCC	UAE
FEB. 2011	Ruwais Refinery Exapnsion PKG3	UAE	Samsung ENG/ Takreer	Dual Check Wafer, Lug, Double Flanged 150#~900#, 6"~80"	WCB, AL BC, CF8M, LCB, LCC	UAE
JAN. 2011	Fertil Fertilizer	UAE	Samsung ENG/ Ruwais Fertilizer Industries	Dual Check Wafer 150#~1500#, 3"~24"	WCB, CF8, CA15, CF8M, LCB, C12A	UAE

Principal Reference List 2010

Month/YeA R	Project Name	Client/End User	Valve Description	Material	Destination
DEC. 2010	NA	Pipeline Actuation & Control	PLUG VALVE	CF8M / HC276 / PTFE	Austrailia
DEC. 2010	TURKMENGAS, GAS EDSULFURIZATION PLANT	Keonwa	Dual Plate Wafer Check Valve / 150# ~600# 2"~10"	WCB / 410SS +Stellite	Turkmenistan
DEC. 2010	SK PTT TANK TERMINAL	Mycom (Korea)	Dual Plate Wafer Check Valve / 150# 1.5"~4", 20K 250A	WCB /410SS	Korea
DEC. 2010	TGT FPSO PROJECT	Alton Int'l	Dual Plate Wafer Check Valve / Gate, Globe, Swing Check	WCB / CF8M	Vietnam
DEC. 2010	East Piatu Development	Federal Hardware Eng	Dual Plate Wafer Check Valve / 300#~600# 2"~6", 2500# 8"	A890 4A, WCB	Malysia
NOV. 2010	Ruwais Refinery Exapnsion PKG1	Takreer / SK EnC	Lug 150#~900#, 6"~36"	WCB, CF8M, CA15, LCC, WC6, WC9, Monel	UAE
NOV. 2010	SABIYA CCGT PROJECT	HyunDai Heavy Industrial	Double Flanged AWWA D28"~60"	WCB, CF8M (Butyl Rubber Lining)	Kuwait
NOV. 2010	HDO NO.2 HOU Project	Hyundai Engineering & Construction	Dual Plate Wafer Check Valve \ 900# 4"	WCB / 410SS	Korea
NOV. 2010	SKIKDA REFINERY PROJECT	Samsung Engineering Co., Ltd./Sonatrach	Dual Plate Wafer Check Valve \ Double Flanged 150#~600# 3"~28", 32":	WCB/410SS, A494 M35-1/MONEL	Algeria
NOV. 2010	FPSO-Block 12W Development PJ	Federal Hardware Eng	Gate, Globe, Swing Check & Dual Check Valv / 300#~1500#, 2"~8"	CF8M, WCB / 410SS	Vietnam
NOV. 2010	Valmax Technology Corp	KOGAS/ Valmax Technology Corp	GATE, GLOBE, SWING / 150# 3XUNI,3XBI,6XMXBI, 2", 3"	CF3/316+HF	Korea
NOV. 2010	AL DUR IWPP Project	AL DUR POWER & WATER COMPANY B.S.C.(C) /HHI	Dual Plate Wafer Check Valve / 600# 18"	WCB / CF8 + HF	BAHRAIN
OCT. 2010	Songdo Waste Disposal Area	M & TECH	Dual Plate Wafer Check Valve 5K 500A	GC200 / SSC13	Korea
OCT. 2010	NEP LPG Cracking	SK Engineering & Construction	Dual Plate Wafer Check Valve 150#~300# 6"~ 10"	WCB, LCB, CF8 / 410SS	Korea
OCT. 2010	HDO NO.2 HOU Project	Daelim Industrial Co., Ltd.	Dual Plate Wafer Check Valve 150#~9600# 3"~ 24"	WCB/410SS+STL.316SS+STL	Korea
OCT. 2010	PVTEX PROJECT	Hyundai EnC/ FCS	Dual Plate Wafer Check Valve 300# 3"	WCB / CF8M	Vietnam
OCT. 2010	SKIKDA REFINERY PROJECT	Samsung Engineering Co., Ltd./ Sonatrach	Dual Plate Wafer Check Valve 150# ~600# 6"~32"	WCB / 410SS	Algeria
OCT. 2010	NEP LPG Cracking	SK Engineering & Construction	Dual Plate Wafer Check Valve 150# ~300# 8"~12"	WCB / 410SS+STL	Korea
OCT. 2010	NA	Pipeline Actuation & Control	Korval pressure relief valve/, 1" NPTM X 3/4" NPT	KSA-CC model, Bronze body	Austrailia
OCT. 2010	BGC WDDM, Main Compression P/J, ENPPI	Van Leeuwen / ENPPI	GATE, GLOBE / 150#~1500# 1.5"~6"	WCB/ 316SS, CF8, 316L	Iran
SEP. 2010	TDI Expansion	Daewoo Engineering Company	Dual Plate Wafer Check Valve 150#~300, 2"~20"	WCB/ LCC / CF8M / CF3M	Korea
SEP. 2010	SOHAR AROMATICS PRJ	AROMATICS OMAN L.L.C	Dual Plate Wafer Check Valve 150# 12"	WCB / 410SS+STL	Oman
SEP. 2010	Tongyoung LNG	KOGAS/ Seochang Inc.	Dual Plate Wafer Check Valve 300# 24", 125# 4"	(Cryogenic)A351 CF8/CF8M, A395 60-40-18B14.8 Cq5800 Cryogenic	Korea
SEP. 2010	HDO NO.2 HOU Project	Hyundai Engineering & Construction	Dual Plate Wafer Check Valve 150#~900#, 3"~42"	WCB/ CF8M, CF8C	Korea
SEP. 2010	SABIYA CCGT PROJECT	Ministry of Electricity and Water / Jinho Inc.	Dual Plate Wafer Check Valve 150# 10"~ 24"	WCB/CF8	Kuwait
SEP. 2010	Singori & Sinwooljin Power Plant	Jungwoosangi	NAVI LITE 150# 10"~ 12"	WCB/ CF8M/NBR	Korea
AUG. 2010	Revamping of offshore Platform	Credenza	Hub Retainerless 2500#, 8" Lift Check,, Wafer Check	Alloy 625 / A494 CW6MC, B148 C95800, LCC	IRAN
AUG. 2010	Koniambo Nickel PJT	Hatch Technip Malaysia / KONIAMBO	Dual Plate Wafer Check Valve 150# ~600#, 2"~ 18"	WCB / 316L, B148 C95800	New Caledonia, China
AUG. 2010	Victorian Desalination PRJ	NEWMANS	Dual Plate Wafer and Double Flanged Check Valve 150# 28"	A890 4A, A890 6A, CF3M /CF3M, WCB/ 410SS	Austrailia
AUG. 2010	HPC-B PROJECT	Lotte ENC	SWING CHECK VALVE 800# 3/4"	A105 / 410+STL	Korea
JUL. 2010	Black Tip	Pipeline Actuation & Control / ENI	Gate Valve Dual Plate Wafer Check Valve	LCC/CF8M+STL	Iran
JUL. 2010	SABIYA CCGT PROJECT	Ministry of Electricity and Water / HHI	Dual Plate Wafer Check Valve	WCB / 316L	Kuwait
JUN. 2010	K-MED PRJ	Hitachi Zosen Corp	Dual Plate Wafer Check Valve 10K 80A~250A	CF8M / CF8	UK
JUN. 2010	HPC-B PROJECT	GS E&C	Dual Plate Wafer Check Valve 150#~300#, 2"~6"	WCB / 410SS	Korea

Principal Reference List 2010

Month/Year	Project Name	Client/End User	Valve Description	Material	Destination
JUN. 2010	S-OIL ONSAN REFINERY Expansion Project	S-Oil/ Samsung Engineering Co., Ltd.	Dual Plate Wafer Check Valve 150# 6" ~24"	WCB / 410	Korea
MAY. 2010	Gas Jubail (ASU)	Samsung Engineering Co., Ltd./ SABIC	Dual Plate Wafer Check Valve 150#~300# 2" ~48"	WCB / 410, CF8M, Ductile	Saudi
MAY. 2010	Habshan 5	GASCO / Hyundai Engineering & Construction	Wafer, Double Flanged 150#~1500#, 2"~42"	WCB, Hastelloy, CH8M / UAE	Abu Dhabi, UAE
MAY. 2010	Shuweihat S2 Electrochlorination Plant	Van Leeuwen	Dual Plate Wafer & Lug Check Valve 150# 8"	WCB/B148 C95800/Butyl Rubber Lining	UAE
MAY. 2010	ALKHALIJ 4 X 350MW POWER PLANT	Hyundai Engineering & Construction	Dual Plate Wafer Check Valve 150# 3"~24"	WCB, CF8, CF3, CF3M,	Libya
MAY. 2010	Chevron Agbami PJ	MCJUNKIN RED MAN CORPORATION	Dual Plate Wafer Check Valve 5K, 16K,30K 2"~18", 150~300# 4"~20"	SCPH2, AL BC2,SCS 14A,	Nigeria
APR. 2010	ACO Demo Plant	SK Engineering & Construction	Dual Plate Wafer Check Valve LUG 150# ~300# 6"~12"	A217 WC6/410SS+STL	Korea
MAR. 2010	YC 5P, Yecheon	Pan Korea	Dual Plate Wafer Check Valve 10K 250~550A,300#~600# 12"~16"	WCB / CF8	Korea
MAR. 2010	KPX, Yeosu	Fine Chemical/ Geosan Co,	Foot Valve Dual Plate Wafer Check Valve 150# 20"~24"	WCB / CF8	Korea
FEB. 2010	CB/PD/1123 Revamp of Effluent Treatment Facilities	AL-ZAHM	Dual Plate Wafer Check Valve 150LB 10"~24"	WCB / CF8M	Kuwait
FEB. 2010	C3 Tower	GS E&C	Dual Plate Wafer Check Valve 150LB, 300LB 2"~14"	WCB / 410SS+STL	Korea
FEB. 2010	OCI/Kunsan PROJECT	Mycom (Korea)	Dual Plate Wafer Check Valve 300LB 6"	WCB / CF8M	Korea
FEB. 2010	KONIAMBO NICKEL SAS	Hatch Technip Malaysia / KONIAMBO	Dual Plate Wafer Check Valve 150LB 20"	WCB / 410SS+STL	New Caledonia, China
FEB. 2010	Devil Creek Development PJT	Pipeline Actuation & Control	Gate Valve and Dual Check (Wafer & Double Flange) 150#, 300# 2"~ 20"	B148 C95800 / A494 M35-1, LCC, CF8M	Australia
FEB. 2010	HPC-B PROJECT	Lotte ENC	Dual Plate Wafer Check Valve 1500# 4", 6"	WCB / 410SS +SLT	Korea
FEB. 2010	Pyungtaek LNG	Hyundai Engineering & Construction	Dual Plate Wafer Check Valve 125# 12", 300# 6"	A395 60-40-18/B148 C95800, CF8M Cryogenic	Korea
FEB. 2010	Tongyoung LNG	Daelim Industrial Co., Ltd.	Dual Plate Wafer Check Valve 150# 4"	WCB / 410SS Cryogenic	Korea
JAN. 2010	WDD, PHASE VII, MAIN COMPRESSION Project	ENPPI /BURULLUS GAS COMPANY	Gate, Globe, Forged Steel Valves 150#~1500#, 1/2"~8"	CF8M,CF3	Egypt

Principal Reference List 2009

Mon/Year	Project Name	Client/End User	Valve Description	Material	Destination
DEC. 2009	K-MED Project	Hitach Zosen	Wafer Retainerless Lug 10K ₃ ~10"	CF8M,CF3/ Japan	UK
DEC. 2009	HONAM OIL B-Project	LOTTE Eng. & Const.	wafer 150# 300# 1.5"~24"	WCB, CA15 / Korea	Korea
DEC. 2009	C ₃ TOWER	GS Eng. & Const.	wafer 150# 300# 2"~14"	WCB, CA15 / Korea	Korea
DEC. 2009	CHAINA C-4, TURKY T-3	HYOSUNG	wafer PN ₄₀ 125A 250A	WCB, CA15 / China, Turkey	Turkey, China
NOV. 2009	YEOSU NCC	LG CHEMISTRY	Foot Valve 150# 4"	CF8 / Korea	Korea
OCT. 2009	ACO DEMO	SK Eng. & Const.	Wafer 150# 300# 6"~12"	WCB, CA15 / Korea	Korea
OCT. 2009	NA	NEWMANS AUSTRALIA	Wafer 150# 2"~14"	CF8M / Australia	Austrailia
OCT. 2009	KONIAMBO NICKEL	TECHNIP	Wafer Lug 150# 6" 2"	WCB, CA15 / China	China
OCT. 2009	NA	ALTON	Wafer Lug 150# 300# 2500# 2"~12"	CF8M, WCB / Singapore	Singapore
Oct. 2009	MA'ADEN POWER & DESALINATION PLANT	FCX ITALY S.R.L	Gate, Globe, Lug Check Valve, 150LB 6"~ 10"	316L, CF3M, WCB, 310/ Saudi Arabia	Saudi Arabia
SEP. 2009	GC-24	SK Eng. & Const.	Wafer Lug 150# 4"	WCB, CF8M / Kuwait	Kuwait
AUG. 2009	S-OIL	S-OIL	DB FLGD 150# 32"	WCB, CA15 / Korea	Korea
AUG. 2009	PYUNGTAEK LNG	KOGAS	Wafer 125# 300# 6" 12"	CF8M, A395 / Korea	Korea
AUG. 2009	ENPPI	ENPPI	Wafer Wafer Lug 150# ~2500# 2"~10	WCB / Egypt	Egypt
AUG. 2009	Tongyoung LNG #13,14	KOGAS	Cryogenic Wafer 125# 24"	A395, CF8M /Korea	Korea
JUL. 2009	Chevron Agbami Project	McJunkin Redman	Wafer Flanged Valve 150#~1500# , 2~20"	AL-Bronze, WCB, CF8M/ U.S.A	USA
JUL. 2009	INCHEON LNG #19 & #20	SAMSUNG C&T	Wafer 900# 2"	WCB, CA15 / Korea	Korea
JUL. 2009	MV22	ALTON	Wafer Lug 150#~1500# 2"~10"	WCB, CF8M / Singapore	Singapore
JUL. 2009	TZORC GPP Project	Van Leeuwen Buizen/ EIED	Swing Check/ Gate/ Globe 150~600#, 2~30"	WCB, CF8C, WC6, CF8 / IRAN	Iran
JUL. 2009	POSCO LNG	POSCO	Wafer Retainerless 150#~ 300# 6"~14"	316SS, A536 65-45-12 / Korea	Korea
JUL. 2009	AL DUR INDEPENDENT WATER& POWER Project	HHI / Kingdom of Bharain Ministry of Finance	Wafer Flange 150~600#, 6~36"	WCB, B148 C95800 / BAHRAIN	Bahrain
JUL. 2009	Devil Creek Project	Pipeline Actuation & Control / CLOUGH	Wafer, Gate, Globe, Swing Check 150~1500#, 2~20"	WCB, B148 C95800, LCC / Australia	Austrailia
JUN. 2009	BP NO.1 CO REVAMPING PRJ	SAMSUNG C&T	Wafer 150#~600# 3"~8"	WCB, CA15, CF3, CF8, M35 / Yerevan	Armenia
JUN. 2009	MA'ADEN POWER & DESALINATION PLANT	Hanhwa / MA'ADEN PHOSPHATE COMPANY	Wafer Check Valve 125# 6"	B148 C95800 / Saudi Arabia	Saudi Arabia
JUN. 2009	Petrobras P57	NOTON B.V./ KEPEL SHIPYARD LTD.	Wafe Retainerless, HUB 150#~1500#, 2"~18"	WCB, CF8M, A890 4A, 5A / Brazil, Singapore	Singapore
JUN. 2009	PTT 6th Seperation Plant PJT	Samsung Eng/PTT PUBLIC COMPANY LIMITDE	Wafer Check Valve	WCB / LAEM CHABANG	Thailands
MAY. 2009	C4A Project	Hanhwa	Wafer Check Valve 150# 4" 10"	WCB, CF8M, A351 CN7M / Korea	Korea
MAY. 2009	Tongyoung LNG #13,14	Hyundai Engineering & Construction	Cryogenic Wafer Check Valve 125#, 300# 4"	A395 60-40-18, CF8, CF8M B148 C95800	Korea

Principal Reference List 2009

Mon/Year	Project Name	Client/End User	Valve Description	Material	Destination
APR. 2009	FPSO P57	NOTON B.V.	Hub Retainerless 1500# 4"~12"	WCB, A352 LCC / BRAZIL	Brazil
APR. 2009	NO.3 HOU Project	Hwasung Industry / GS Eng. & Const.	Wafer Check Valve 150# 2"~24"	CF3M WCB, CF8M, CF8 / Korea	UAE
APR. 2009	Dung Quat Polyporpylene Project	HEC/ PTSC QUANG NGAI CO.,LTD	Wafer Check Valve 150# 2"~6"	WCB, LCC / VIETNAM	Vietnam
APR. 2009	USAN FPSO Project	Tyco Marine	Wafer Check Valve 150# 3", 6"	CF8M	Korea
MAR. 2009	BEDB Brunei Buoy	NOTON	Wafer Retainerless Lug 300# 16"	WCB / BRAZIL	Brazil
MAR. 2009	Ras Laffan C IWPP	HEC / RAS GIRTAS POWER COMPANY / Mitsui & Co., Ltd.	Wafer Check Valve 150# 4" 38"	WCB, CF3M / QATAR	Qatar
MAR. 2009	Yerevan CCPP	GS Eng. & Const./ ARMENIA	Wafer Lug 150# 14", 18"	WCB / YEREVAN, ARMENIA	Armenia
MAR. 2009	Sohar Aromatics	GS Eng. & Const. / AROMATICS OMAN LLC	Wafer Retainerless 300# 2" 12"	WCB / OMAN	Oman
FEB. 2009	Castde peak"B"powen station	MOD Int. Co.	Wafer Lug 1500# 2"~12"	WCB, A890 4A	Hong Kong
FEB. 2009	P2Project	KCC ENG	Wafer Check Valve 150# 10"~16"	WCB / Korea	Korea
FEB. 2009	Reformer complex II	SK Engineering & Construction	Wafer Retainerless 150# 10" 12"	WCB / THAILAND	Thailands
FEB. 2009	KCC CORP P1-PROJECT	Mycom Korea	Wafer Check Valve 20K, 300# 2"~16"	WCB, CF8	Korea
FEB. 2009	PJT3282 AROMATICS	FCX ITALY S.R.L	Wafer Lug 150# 600#, 2"~4"	WCB, WC6, MONEL Overlay / Kuwait	Kuwait
JAN. 2009	PETRON BTX PJT/PHILIPPINES	Daelim / DAELIM PHILIPPINES, INC.	Wafer Check Valve 300# 3"	CF8M / PHILIPPINES	Philippine
JAN. 2009	Ras Laffan SCR PJT	Hitachi Zosen	Wafer Retainerless 150# 10"	WCB / QATAR	Qatar
JAN. 2009	Salalah Methanol 5차	GS Eng. & Const./GULF AGENCY COMPANY LLC	Wafer Retainerless 150# 600#, 2"~10"	WCB / OMAN	Oman

Cert. No. : SRM 10-057

인 증 서 / CERTIFICATE

[주]삼우케이제이에스텍 / SAMWOO KJS TECH CO., LTD

발행일 / Authorized : January 01, 2010

만료일 / Expires : December 31, 2010

귀사의 품질시스템과 거래실적에 대해 종합역량평가를 수행한
결과 2010년도 우수협력회사로 선정되었기에 본 인증서를
드립니다.

This is to certify that company named herein has been classified as a
superior supplier for 2010 based on a comprehensive assessment of your
quality system and and delivered product history.

January 01, 2010

두 산 중 공 업 주 식 회 사

Doosan Heavy Industries & Construction Co., Ltd.



발급번호 : C8CB-5E42-43BC-BB34-A4C4

기자재 공급 유자격 등록증

등 록 번 호 : EASYU2015-01982
업 체 명 : (주)삼우케이제이에스텍
공 장 주 소 : 경상남도 창원시 성산구 웅남로 328
품 명 : 일반 주강밸브
운 영 구 분 : 건설(기계)
유 효 기 간 : 2015-06-23 ~ 2018-06-22

비 고 :

상기업체는기자재공급 통합관리 기준에 따라 한국남부발전(주), 한국서부발전(주), 한국중부발전(주), 한국동서발전(주), 한국남동발전(주)의기자재 공급 유자격자로 인증함.

2015. 06. 24



TOSHIBA CORPORATION

(APPROVED VENDOR)

TOSHIBA



Doc.NO : VSRK0872118
Issued Date : 2008-10-31

Vendor Name : SAMWOO KJS TEC CO., LTD
Address : 45-2 WOONGNAM-DONG, CHANGWON-CITY
GYOUNGNAM KOREA

Attention: Mr. Steve Son
(Manager)

Dear Sir,

This is the TOSHIBA CORPORATION KEIHIN PRODUCT OPERATIONS' report for the recent surveyor of your firm's Quality Assurance Program.

As a result of our evaluations, we are pleased to inform you that SAMWOO KJS TEC CO., LTD has been certified as our Qualified Vendor.

Scope: Valve

The extent of this qualification and brief summary of this audit results are shown on subsequent page(s) of this report.

If you have any questions, please do not hesitate to contact us at your convenience.

Thank you for the continuous cooperation.

Sincerely Yours,

TOSHIBA CORPORATION KEIHIN PRODUCT OPERATIONS

(Signature) A. Kondo
Akira Kondo
Deputy Manager
Sourcing Quality Engineer
Quality Assurance Department

Cc: _____

(Signature) S. Sakamoto
Satoru Sakamoto
Group Manager-Sourcing Quality
Engineering Group
Quality Assurance Department

(Signature) T. Uchida
Tetsuo Uchida
Senior Manager
Quality Assurance Department

شركة البترول الوطنية الكويتية (ش.م.ك)

إحدى شركات مؤسسة البترول الكويتية
A Subsidiary of Kuwait Petroleum Corporation

KNPC



VENDOR EVALUATION COMMITTEE

M/S SAMWOO KJS TEC CO.LTD., SOUTH KOREA.,
45-2-WOONGNAM-DONG, , CHANGWON,
KYUNGNAM,
KOREA, DEMOCRATIC REPUBLIC OF

Date : 02/07/2008

REF No : V/C-V 2304-08-1088L

FILE NO.: V 2304

SUBJECT : **CHANGE OF NAME**

Old : KOOKJAE STEEL INDUSTRIES CO.LTD.

New : SAMWOO KJS TEC CO.LTD., SOUTH KOREA.,

GENTLEMEN,

REFERENCE TO YOUR LETTER DATED 29/06/2008 ON THE ABOVE SUBJECT, THE SAME HAS BEEN
UPDATED IN OUR RECORDS EFFECTIVE 02/07/2008 FOR THE SUPPLY OF THE FOLLOWING
PRODUCT(S) FOR K.N.P.C REFINERIES.

PRODUCT DESCRIPTION

16 25 VALVES, GATE, GLOBE & CHECK 2" & ABOVE

THE COMPANY (VENDOR) CODE ALLOCATED TO YOUR COMPANY IS **277001.**

PLEASE ENSURE TO QUOTE ABOVE CODE AND FILE NO. ON ALL YOUR FUTURE CORRESPONDENCE.

VERY TRULY YOURS,

AHMED S. AL - TABTABAI

CHAIRMAN - VEC/CEC

CC. AL-ZAHM INTERNATIONAL GROUP
THE INTERNAL CODE ALLOCATED
TO YOUR COMPANY IS 560003

NOTE: THIS LETTER SUPERSEDE OUR LETTER DATED 14/08/2001



F-2447 (A)



إحدى شركات مؤسسة البترول الكويتية
A Subsidiary of Kuwait Petroleum Corporation

TO: M/s. Samwoo KJS Tec Co. Ltd.
Korea
Fax No.: 0082 55 285 1666

FROM: Ag. Team Leader Purchasing II,
Commercial Affairs Group
P.O. Box - 9758, 61008 Ahmadi, Kuwait
Fax No.: (965) 23980677

Date : 7th June 2012
Msg. No.: RQAN/1203/8185/2012
Total No. of Pages: 1

SUBJECT: **RE-QUALIFICATION OF VENDOR APPROVAL NOTIFICATION**

OUR REF.: **VEC-5346/VA/GT/RQF/8185/2012**

Dear Sirs,

We are pleased to inform you that your application to retain you in KOC approved list of manufacturers has been approved for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : **GATE VALVES (2" & ABOVE)**
FACILITY ADDRESS : **M/s. SAMWOO KJS TEC CO. LTD.
45-2, UNGNAM-DONG,
CHANGWON-CITY,
GYEONGNAM 641-290,
KOREA.**

Validity : **From 7th June 2012 to 6th June 2017 (5 years)**
Earlier Approvals : **1. VEC/VA/GT/030/2000 dated 4th Apr 2000
2. RQAN/374/7018/2006 Dated 4th September 2006**

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:-

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change In Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-Qualification (If required) 3 months prior to the date of expiry.

Sincerely,
For Kuwait Oil Company

Khalid Al-Hanaif

cc: M/s. Al-Zahem International Group Trade & Cont. Co. W.L.L. Kuwait; Fax:-2482 9166/69
QF/CAG/PUR/14





إحدى شركات مؤسسة البترول الكويتية
A Subsidiary of Kuwait Petroleum Corporation

TO: M/s. Samwoo KJS Tec Co. Ltd.
Korea
Fax No.: 0082 55 285 1666

FROM: Ag. Team Leader Purchasing II,
Commercial Affairs Group
P.O. Box - 9758, 61008 Ahmadi, Kuwait
Fax No.: (965) 23980677

Date : 7th June 2012
Msg. No.: RQAN/1202/8185/2012
Total No. of Pages: 1

SUBJECT: **RE-QUALIFICATION OF VENDOR APPROVAL NOTIFICATION**

OUR REF.: **VEC-5346/VA/GL/ROF/8185/2012**

Dear Sirs,

We are pleased to inform you that your application to retain you in KOC approved list of manufacturers has been approved for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : **GLOBE VALVES (2" & ABOVE)**
FACILITY ADDRESS : **M/s. SAMWOO KJS TEC CO. LTD.
45-2, UNGNAM-DONG,
CHANGWON-CITY,
GYEONGNAM 641-290,
KOREA.**

Validity : **From 7th June 2012 to 6th June 2017 (5 years)**
Earlier Approvals : **1. VEC/VA/GL/031/2000 dated 4th Apr 2000
2. RQAN/373/7018/2006 Dated 4th September 2006**

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:-

- To update regularly with the latest product catalogue / Information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-Qualification (if required) 3 months prior to the date of expiry.

Sincerely,
For Kuwait Oil Company


Khalid Al-Hanaif

cc: M/s. Al-Zahem International Group Trade & Cont. Co. W.L.L. Kuwait; Fax:-2482 9166/69
QF/CAG/PUR/14





إحدى شركات مؤسسة البترول الكويتية
A Subsidiary of Kuwait Petroleum Corporation

TO: M/s. Samwoo KJS Tec Co. Ltd.
Korea
Fax No.: 0082 55 285 1666

FROM: Ag. Team Leader Purchasing II,
Commercial Affairs Group
P.O. Box – 9758, 61008 Ahmadi, Kuwait
Fax No.: (965) 23980677

Date : 7th June 2012
Msg. No.: RQAN/1204/8185/2012
Total No. of Pages: 1

SUBJECT: **RE-QUALIFICATION OF VENDOR APPROVAL NOTIFICATION**

OUR REF.: **VEC-5346/VA/CK/RQF/8185/2012**

Dear Sirs,

We are pleased to inform you that your application to retain you in KOC approved list of manufacturers has been approved for the product category and manufacturing facility mentioned here below:

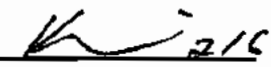
PRODUCT CATEGORY : **CHECK VALVES (2" & ABOVE)**
FACILITY ADDRESS : **M/s. SAMWOO KJS TEC CO. LTD.
45-2, UNGNAM-DONG,
CHANGWON-CITY,
GYEONGNAM 641-290,
KOREA.**

Validity : **From 7th June 2012 to 6th June 2017 (5 years)**
Earlier Approvals : **1. VEC/VA/CK/037/2000 dated 4th April 2000
2. RQAN/372/7018/2006 Dated 4th September 2006**

This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC:-

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.
- To submit request for Re-Qualification (if required) 3 months prior to the date of expiry.

Sincerely,
For Kuwait Oil Company


Khalid Al-Hanaif

cc: M/s. Al-Zahem International Group Trade & Cont. Co. W.L.L. Kuwait; Fax:-2482 9166/69
QF/CAG/PUR/14





26 APR 2015

26 APR 2015

We Refine Right

OS A new

FACSIMILE MESSAGE

To : M/s. Gulf Automation Svcs & Oil Field Supplies Co. (GASOS) L.L.C. Fax No.: 6276150
Attn.: General Manager Abu Dhabi

From : Procurement Support Department Manager Fax No.: 6027442

Abu Dhabi Oil Refining Company (TAKREER)
P.O. Box 3593 - Tel (9712) 6027000 - Abu Dhabi, U.A.E

Ref. No. : TKR/S/S/985/FES/2015

Date : 26 APR 2015

Subject : REGISTRATION & PRE-QUALIFICATION STATUS

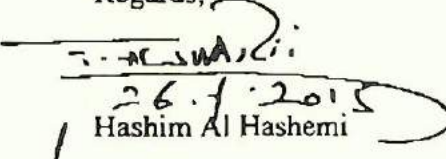
This has reference to the Pre-qualification Document of your Principal M/s. **Samwoo Kjs Tec Co. Ltd.** – KOREA, submitted by you as a *Manufacturer*. Please be informed that based on the evaluation, the above principal has been included in TAKREER records as a possible source for supply of the following product:

➤ Valves: Gate/Globe/Check Above 2.0"

Please note that at the time of release of enquiries, a further short listing takes place based on exhibited interest at that time and the specifics of material /equipment in question as the need may be.

You are advised to quote your Principal's Registration No. **912196** in all future correspondence.

Regards,


26.4.2015
Hashim Al Hashemi

Tech

If you do not receive all the pages,
please call Telephone : (9712) 6027479

No. of pages to follow:

Confidentiality Notice: This fax is Confidential. If you are not the intended recipient, please notify us immediately. You should not copy the Fax or use it for any purpose or disclose its contents to any other person. Thank you

912196_ManufCap-No Fax-28-04-2015

GAS DEVELOPMENT PROJECT FOR THE UNITIZATION OF THE JAMBARAN-TIUNG BIRU FIELD

EXHIBIT G: APPROVED MANUFACTURER LIST (AML) AND SUBCONTRACTOR LIST

DOCUMENT NUMBER: JTB-CP-B-LST-900-00001

REVISION 3

PIHAK KEDUA		
REKIND	JGC	JGC IND
		

PERTAMINA EP CEPU

PIHAK PERTAMA				
SCM	SPM	ENG	CONST	QA/QC
				

NO	CRITICALITY RATING	MATERIAL	MANUFACTURER	COUNTRY
			AITKEN INC	USA
			ARMSTRONG	USA
			BARTON FIRTOP	UK
			GF	SWITZERLAND
			NARVIK YARWAY	USA
			RP ADAMS	USA
			SPIRAX SARCO	USA
			VEE BEE LTD	USA
			PK	USA
48	I	FLAME ARRESTER	AMAL (PENTAIR)	UK
			ENARDO	USA
			PROTEGO	GERMANY
			GROTH	USA
			VAREC	USA
			PROTECTOSEAL	USA
			SHAND & JURS	USA
			JOHN ZINK	USA
			HAMWORTHY	USA
			LOU & JANNOT TECHNOLOGIES	USA
49	I	VALVE INTERLOCK (LOCKING DEVICES)	NETHERLOCK	NETHERLAND
			CASTELL LOCK	USA
			GUARDMASTER FORTRESS	UK
			SMITH FLOW CONTROL	UK
50	I	BOLT & NUTS	COMPACT FLANGE	CANADA
			LONE STAR	USA
			BUKIT BAJA NUSANTARA	INDONESIA
			ASIAKARYA EKATAMA	INDONESIA
			CARDOX	INDONESIA
			SOUTHERN TRI STAR	INDONESIA
			TMS	INDONESIA
			TRI SINAR PURNAMA FOUNDRY	INDONESIA
51	I	INSULATION MATERIAL (HOT & COOL)	KEIFER	USA
			LAPINUS	HOLLAND
			TOMBOICHIAS	INDONESIA
			CHILDERS	USA
			PABCO	USA
			WILLICH	GERMANY
52	I	FLEXIBLE PIPE FOR VEHICLE FUELING STATION (UL/FM)	KPS (OPW)	USA
			UPP	USA / GERMANY / UK
			NUPI	ITALY
	I	PIGGING	TDW	USA
			LIN SCAN	UAE
			PII PIPELINE SOLUTIONS (GE OIL & GAS)	UK
			ROSEN	SWITZERLAND
54	I	CHEMICAL INJECTION POINT	KOROSI SPECINDO	INDONESIA
			CAPROCO	CANADA
			CLAMPON	USA
			CORROCEAN SRI	ITALY
			FLUENTA	USA
			ROHRBACK COSASCO	USA

VALVES

Valve main parts shall be manufactured by VENDOR owned facilities (non OEM valves)

VALVE - GATE / GLOBE / CHECK

1	II	API 602 - FORGED FLANGED, THREADED, WELDED, 2" & BELOW	DOUGLAS CHERO (CAMERON)	ITALY
			BONNEY FORGE	USA / ITALY
			OMB	ITALY
			VELAN	CANADA / ITALY
			SACCAP	FRANCE

PIHAK KEDUA		
REKIND	JGC	JGC IND

PIHAK PERTAMA				
SCM	SPM	ENG	CONST	QA/QC

NO	CRITICALITY RATING	MATERIAL	MANUFACTURER	COUNTRY
			AITKEN INC	USA
			ARMSTRONG	USA
			BARTON FIRTOP	UK
			GF	SWITZERLAND
			NARVIK YARWAY	USA
			RP ADAMS	USA
			SPIRAX SARCO	USA
			VEE BEE LTD	USA
			PK	USA
48	I	FLAME ARRESTER	AMAL (PENTAIR)	UK
			ENARDO	USA
			PROTEGO	GERMANY
			GROTH	USA
			VAREC	USA
			PROTECTOSEAL	USA
			SHAND & JURS	USA
			JOHN ZINK	USA
			HAMWORTHY	USA
			LOU & JANNOTA TECHNOLOGIES	USA
49	I	VALVE INTERLOCK (LOCKING DEVICES)	NETHERLOCK	NETHERLAND
			CASTELL LOCK	USA
			GUARDMASTER FORTRESS	UK
			SMITH FLOW CONTROL	UK
50	I	BOLT & NUTS	COMPACT FLANGE	CANADA
			LONE STAR	USA
			BUKIT BAJA NUSANTARA	INDONESIA
			ASIAKARYA EKATAMA	INDONESIA
			CARDOX	INDONESIA
			SOUTHERN TRI STAR	INDONESIA
			TMS	INDONESIA
			TRI SINAR PURNAMA FOUNDRY	INDONESIA
51	I	INSULATION MATERIAL (HOT & COOL)	KEIFER	USA
			LAPINUS	HOLLAND
			TOMBOICHIAS	INDONESIA
			CHILDERS	USA
			PABCO	USA
			WILLICH	GERMANY
52	I	FLEXIBLE PIPE FOR VEHICLE FUELING STATION (UL/FM)	KPS (OPW)	USA
			UPP	USA / GERMANY / UK
			NUPI	ITALY
	I	PIGGING	TDW	USA
			LIN SCAN	UAE
			PII PIPELINE SOLUTIONS (GE OIL & GAS)	UK
			ROSEN	SWITZERLAND
54	I	CHEMICAL INJECTION POINT	KOROSI SPECINDO	INDONESIA
			CAPROCO	CANADA
			CLAMPON	USA
			CORROCEAN SRI	ITALY
			FLUENTA	USA
			ROHRBACK COSASCO	USA

VALVES

Valve main parts shall be manufactured by VENDOR owned facilities (non OEM valves)

VALVE - GATE / GLOBE / CHECK

1	II	API 602 - FORGED FLANGED, THREADED, WELDED, 2" & BELOW	DOUGLAS CHERO (CAMERON)	ITALY
			BONNEY FORGE	USA / ITALY
			OMB	ITALY
			VELAN	CANADA / ITALY
			SACCAP	FRANCE

PIHAK KEDUA		
REKIND	JGC	JGC IND

PIHAK PERTAMA				
SCM	SPM	ENG	CONST	QA/QC

NO	CRITICALITY RATING	MATERIAL	MANUFACTURER	COUNTRY
			EDWARD (FLOWSERVE)	USA
			NEWCO (CAMERON)	USA
			FLUITEK ORSENIGO VALVE	ITALY
			MSA	CZECH REPUBLIC
			KJS	KOREA
			PETROL VALVE	ITALY
			PK	USA
2	II	API 600 AND/OR ASME 16.34 - 600# & ABOVE OR NACE	KITZ	JAPAN
			POYAM	SPAIN
			VELAN	CANADA / ITALY
			EDWARD (FLOWSERVE)	USA
			RAIMONDI (PENTAIR)	ITALY
			KINKA KIKAI	JAPAN
			NEWCO (CAMERON)	USA
			ARFLU	SPAIN
			BEL VALVES	UK
			CAMERON	USA
			VOGT	USA
			MSA	CZECH REPUBLIC
			RED POINT	NETHERLAND
			BALON	USA
			COOPER VALVE	USA
			GOODWIN	UK
			VITAS	ITALY
			RED POINT	NETHERLAND
			KJS	KOREA
			SMITH	USA
3	II	API 600 - CAST LOW CHROME (UP TO 13% Cr)	KITZ	JAPAN
			POYAM	SPAIN
			VELAN	CANADA / ITALY
			EDWARD (FLOWSERVE)	USA
			RAIMONDI (PENTAIR)	ITALY
			BONNEY FORGE	USA
			RED POINT	NETHERLAND
			VITAS	ITALY
			OLIVER	UK
4	II	API 600, API 603 AND/OR ASME B16.34 - 300# & BELOW	KITZ	JAPAN
			POYAM	SPAIN
			VELAN	CANADA / ITALY
			EDWARD (FLOWSERVE)	USA
			RAIMONDI (PENTAIR)	ITALY
			KINKA KIKAI	JAPAN
			NEWCO (CAMERON)	USA
			ARFLU	SPAIN
			BEL VALVES	UK
			CAMERON	USA
			VOGT	USA
			VITAS	ITALY
			MSA	CZECH REPUBLIC
			KJS	KOREA
			RED POINT	NETHERLAND
5	II	API 600, API 603 AND/OR ASME B16.34 - NICKEL ALLOYS	KITZ	JAPAN
			POYAM	SPAIN
			EDWARD (FLOWSERVE)	USA
			ORION	ITALY
			BALON	USA
			SMITH	USA
			COOPER VALVE	USA
			VOGT	USA
			VITAS	ITALY
			GOODWIN	UK
			RED POINT	NETHERLAND
6	II	API 594 - WAFER / WAFER LUG / DOUBLE FLANGED CHECK	GOODWIN	UK
			PROQUIP (VELAN)	CANADA / ITALY
			WHEATLEY (CAMERON)	USA

PIHAK KEDUA		
REKIND	JGC	JGC IND

PIHAK PERTAMA				
SCM	SPM	ENG	CONST	QA/QC

SK ENERGY
(APPROVED VENDOR)



Certificate of Appreciation

SAMWOO KJS TEC CO. LTD

On behalf of SK energy, I would like to express our sincere appreciation
for your participation as a piping material supplier to the

SK New FCC Project in Ulsan, Korea

July 31, 2008

A stylized, handwritten signature in black ink, appearing to read "Sook-Hyung (Sam) Kwon".

Sook-Hyung (Sam) Kwon
Vice President & Project Director
New FCC Project Division

SK energy

