



VALVES

CARBON & ALLOY STEEL VALVES
STAINLESS STEEL VALVES
CRYOGENIC VALVES
BELLOWS VALVES
GATE, GLOBE, CHECK,
THROUGH CONDUIT GATE
BALL VALVES



CEO Mr. Bang





Samwoo KJS Tee Co., Ltd.("KJS") was established in 1974 and since then, KJS has been a leading manufacturer of high quality valves including Cast Carbon steel, Stainless steel, Alloy steel, Cryogenic & PSB valves.

KJS is fully committed to engineering excellence & product innovation supported by highly qualified technical engineering staffs & well stilled workers and KJS has been equipping with a flow operating system for Drawing, Casting, Machining, Assembling, Testing & Inspection.

For years, the premier line of KJS Cate / Clobe / Check valves have been satisfying the needs of Oil, Cas, Petrochemical, Chemical & Power industries' most exacting standards, ASME, ANSI, ASTM, BS, API with the qualification of CE 0035/ISO9001 / 14001.

IKUS is well recognized as a world class company providing valves to the market on aglobal basis at the most competitive price and at right time delivery. We express our sinecere thanks to you & your continuous cooperation and mutual benefits.

> Faithully Yours, Chairman H.C.Bang

사는 1974년 설립 된 이후 한국밸브제조업계의 선두주자로서

전 세계에 많은 산업용 밸브를 제조, 수출하고 있습니다.

설계에서 주물, 가공, 조립, 검사에 이르기 까지 단일 공장 내 일관공정을 유지하고 많은 경험과 탁월한 기울력으로 고객의 국제적 수준의 요구를 만족할 충분한

능력과 설비를 보유하고 있습니다.

주 생산품은 주강, 스테인레스 스틸, 함큼강 밸브 등이며

또한 초저온밸브와 초교압밸브의 생산도 저희의 자랑입니다.

ISO 9001 및 ISO 14001의 국제인증을 바탕으로 석유화학에서

원자력에 이르는 품질규격을 만족하고 있음을 자신합니다.

납기준수를 원칙으로 하는 1등 업체로서,

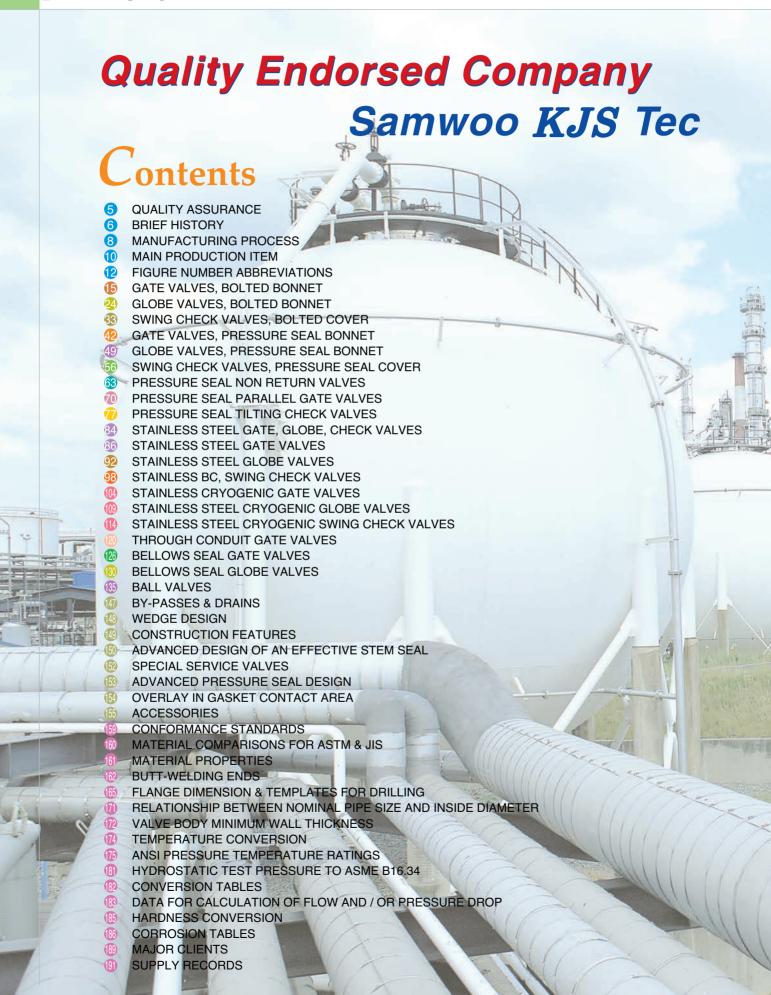
고객의 관점에서 고객의 요구를 만족 시키도록 하겠습니다.

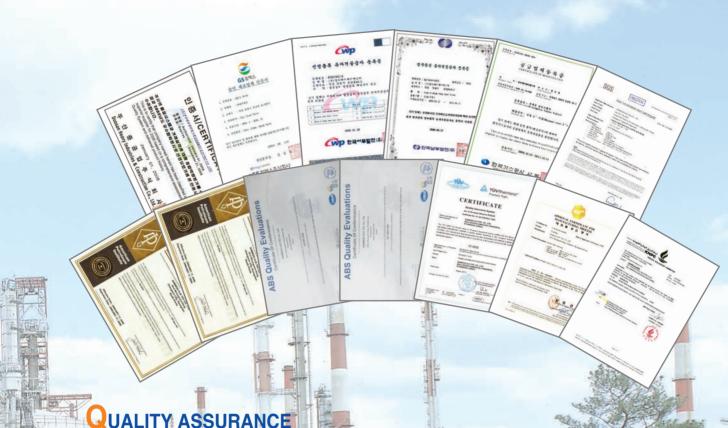
협조에 깊은 감사의 말씀을 드립니다.

가 사하니다

대표이사 방 효 철 올림







JUALITY ASSURANCE

Samwoo KJS Tec Co., Ltd's("KJS")unparalleled Quality Assurance programs translate into "Peace of Mind" for our respected customers. KJS well operates under ISO 9001 / ISO 14001 registration.

All valves are compliant to the industry standards of API, ASTM & ASME.

Inspection & Test is maintained throughout the manufacturing process to verify compliance to these standards as well as any specific customer requirements.

UALITY APPROVAL

We have gained a reputation for manufacturing high performance valves with our quality assurance system being amazingly effetive.

ISO 9001 by BVQI. (Bureau Veritas Quality International Limited)

Jan. 1993 and renewed in Jan. 1996.

ISO 14001 by BVQI, Nov. 1991.

API 6D (American Petroleum Institute)

Jan. 1992 and renewed in Feb. 1998.

MOST (Ministry of Science & Technology) Mar. 1992.

LR (Lloyd's Register of Shipping) Jan. 1989.

DNV (Det Norske Veritas) July. 1989.

KR (Korean Register of Shipping) Oct. 1988.

BV (Bureau Veritas) Aug. 1993.

GL (Germanischer Lloyd) Aug. 1993 and renewed in July. 1997.

TUV Dec. 1999.

CE Jul. 2001.

ISO API 600 Jan. 2010

ISO 9001 & ISO 14001 by ABS. Nov. 2011.

품질보증

저희. (주)삼우케이제이에스텍은

미국석유협회규격(API), ISO 9001, ISO14001, 영국선급 LLOYD, 노르웨이선급 DNV, 과기처의 핵발전소용 주조업체인증, 독일선급 GL, 프랑스선급 BV, 독일공업규격(TUV),

압력용기(PED)제조업체인증등의 국제규격과 각종 국내규격을 확보하여 특별품질관리체계를 가지고 있습니다

BRIEF HISTORY

4070	M 40	4 Fatablish ad Han Comm Ota al lad Ca					
1970		Established Han Sung Steel Ind. Co.Supplementary registration for machinery	COMPANY OUTLINE				
	IVIAI. 197	Manufacturer.					
	July 197	8 Registered as manufacturer of parts for	Capital US \$5,500,000				
	odly. 107	shipbuilding industry.	Site area 17,955 m ²				
		ompounding inductry.	Shop & Office area 11,523 m				
1980	Mar. 198	3 Removed all facilities and factory to Jang-Ji Ri,	Production Capacity				
1500		Ham-An Gun, Kyungnam, Korea.	(Monthly Output)				
Harris and A	Jun. 198	5 Renamed to KOOKJAE STEEL IND. CO., LTD.	Casting 370ton/m				
		6 Set about equipping with the metallic mould cast	Valves 4,000sets				
		line for exploitation of Bronze Castings with					
		KIMM.					
	Dec. 198	7 Removed to Changwon Industrial complex (Present L	_ocation)				
		8 Completed the building of steel castings					
		shop & the installation of high frequency induction fur	nace.				
	Oct. 198	8 Approved steel Casting Manufacturer by K.R. (Korea					
		9 Approved steel Casting Manufacturer by L.R. (Lloyd's					
		9 Completed the machining shop construction and esta					
		9 Approved steel Casting Manufacturer by D.N.V. (Det					
100							
1990	Mar. 199	2 Approved Casting valve manufacturer for nuclear po	wer plant by MOST				
		(Ministry of Science & Technology)					
	Dec. 199	Audited Casting valve manufacturer for ISO 9001 by BVQI.					
		(Bureau Veritas Quality International Limited)					
	Feb. 199	3 Approved Casting valve manufacturer for ISO 9001 b	Approved Casting valve manufacturer for ISO 9001 by BVQI.				
		(Bureau Veritas Quality International Limited)					
	Aug. 199	3 Approved Steel Casting Manufacturer by G.L.					
		(Germanischer Lloyd) : Re Approved (July. 1997)					
		3 Approved Steel Casting Manufacturer by B.V. (Burea	Charles Co.				
		6 Re-Approved as Casting valve manufacturer for ISO	The second secon				
	Aug. 199	7 Re-Approved as Casting valve manufacturer for nucle	ear power plant by Korean				
		Goverment.					
		8 Re-Approved as Casting valve(6D) manufacturer by					
		9 Approved as casting valve manufacturer in KJS's site	e for ISO 14001 by B.V.Q.I				
	Dec. 199	9 Approved as casting manufacturer by TUV					
2000							
2000	Jul. 200	11 Approved as casting valve manufacturer for P.E.D					
	0.1.000	(pressure Equipment Directive) by TUV					
		4 Renamed to Samwoo KJS Tec Co., Ltd.	CV.				
		6 Award of a Silver Industry Medal from the President of	of Korea				
		7 Achieved Goal of Sales Volume of USD 35,000,000	denome the Dune dent of Konne				
	Nov. 200	8 Awarded a prize of "USD 20,000,000 - Export Tower"	from the President of Korea.				
2010	lan 004	O. Approved as applies well ADI Ob devel 200					
2010		O Approved as casting valve API Standard 600	2001 8 14001 by ADO				
	Nov. 201	1 Re-Approved as casting valve manufacturer for ISO 9	9001 & 14001 by ABS.				







Foundry Shop

Machining Shop

1970 1974 한성철강으로 발족

1978 기계제조업으로 등록

1978 조선사업의 부품제조업체로 등록

1980 1983 경남 함안군 장지리로 이전

1985 국제스틸공업 주식회사로 개명

1986 청동주물주조에 관한 금형주조설비 구축

1987 창원공단(현위치)로 이전

1988 주조공장 완공 및 고주파 유도로 설치

1988 한국선급의 주조업체로 인증

1989 영국선급 로이드의 주조업체로 인증

1989 가공공장 완공

1989 노르웨이 선급 DNV의 주조업체로 인증

1990 1992 과기처의 핵발전소용 주조업체로 인증

1993 ISO 9001 (프랑스BVQI주관) 인증획득

1993 독일선급 GL의 주조업체로 인증

1993 프랑스선급 BV의 주조업체로 인증

1996 ISO 9001 (프랑스BVQI주관) 재인증

1997 과기처의 핵발전소용 주조업체로 재인증

1998 미국석유협회 (API)의 밸브제조업체로 인증

1999 ISO 14001 (프랑스BVQI주관) 인증

1999 독일공업규격(TÜV) 인증

2000 2001 독일공업규격(TÜV)에 의한 압력용기(PED)제조업체로 인증

2004 주식회사 삼우KJS텍으로 상호변경

2006 은탑산업훈장 대통령 표창

2007 매출 350억원 달성

2008 이천만불 수출탑 대통령 표창

2010 2010 미국석유협회 API Standard 600 인증

2011 ISO 9001 & ISO 14001(ABS주관) 재인증

회사개요

- 자본금 55억원
- 부지면적 17.955m²
- 건물연면적 11.523m²
- 생산능력 주조 370톤/월
- 조립생산 4,000세트/월

MANUFACTURING PROCESS

Samwoo KJS Tec Co., Ltd.'s("KJS") manufacturing process has only a goal to produce high quality of valves to meet the demand of clients' exacting standards with up-date equipments / facilities & well skilled workers supported by highly qualified technical engineering staffs.

KJS have been well organized to perform all clients' requirements with In-house Production system of Drawing, Casting (RT / MT / PT / UT), Machining, Assembling, Testing, Inspection, Painting & Packing.

제조공정

삼우KJS텍은 최신설비와 고도의 숙련된 기술과 인원으로 오로지 고객의 품질표준을 만족시키는 것을 목표로 설계, 주조, 가공, 조립, 검사, 도장 및 포장등 엄격한 생산 및 품질관리를 하고 있습니다.

Design >



Inspection of casting item A



Lathe Machining



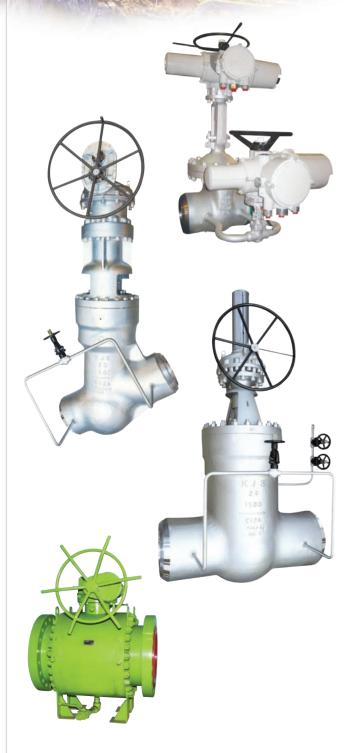


◆ Packing



MAIN PRODUCTION ITEM

Advanced techniques are applied to every stage of valve production.



GATE VALVES

	150	300	600	900	1500	2500
ВВ	2″~56″	2″~48″	2″~42″	2″~24″	2″~24″	2″~12″
PB	-	-	2″~24″	2″~24″	2″~24″	2″~18″

GLOBE VALVES

	150	300	600	900	1500	2500
BB	2″~18″	2″~16″	2″~16″	2″~16″	2″~16″	2″~12″
PB	-	-	2″~16″	2″~16″	2″~14″	2″~12″

CHECK VALVES

	150	300	600	900	1500	2500
ВВ	2″~36″	2″~36″	2″~30″	2″~30″	2″~24″	2″~16″
PB	-	-	2"~24"	2"~24"	2"~24"	2"~20"

THROUGH CONDUIT GATE VALVES

	150	300	600
BB	4"~24"	4"~24"	4"~24"

NON RETURN VALVES

	600	900	1500	2500	
BB	2″~16″	2″~16″	2″~14″	2″~12″	

PARALLEL GATE VALVES

	600	900	1500	2500	
BB	2"~24"	2"~24"	2"~24"	2"~24"	

TILTING CHECK VALVES

	600	900	1500	2500	
BB	2"~24"	2″~24″	2″~24″	2"~24"	

BELLOWS GATE VALVES

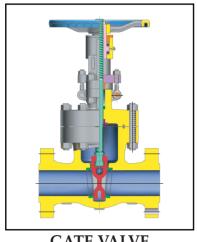
	150	300	
BB	2″~20″	2″~20″	

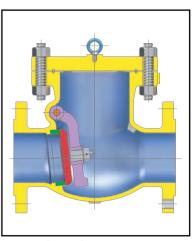
BELLOWS GLOBE VALVES

	150	300	
BB	2″~12″	2″~12″	

BALL VALVES

	150	300	600	900	1500	2500
BF	1/2″~12″	1/2″~10″	1/2″~6″	1/2″~2″	1/2″~2″	1/2″~2″
BT	6″~36″	4″~36″	2″~24″	2″~16″	2″~12″	2″~10″

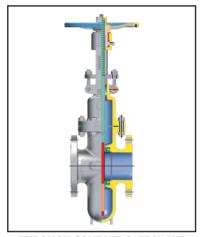


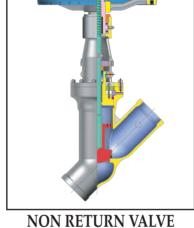


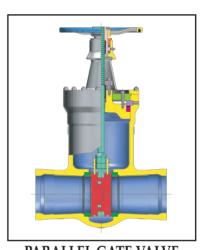
GATE VALVE

GLOBE VALVE

CHECK VALVE

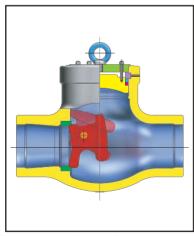


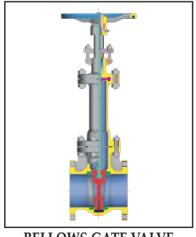


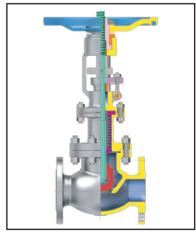


THROUGH CONDUIT GATE VALVE

PARALLEL GATE VALVE







TILTING CHECK VALVE

BELLOWS GATE VALVE

BELLOWS GLOBE VALVE

Other valves not listed here can also be manufactured depending on the customer's specifications.

- · Pressure-temperature ratings: ASME Class 150 to 2500
- · Size: 2 inch to 56 inch
- · Manufacturing standards: API, ANSI, JPI, JIS, BS, DIN, GOST, MSS, ASME, ASTM, ISO and other user's specifications.
- · Materials : Carbon steel, Alloy steel, Stainless steel, Monel, Forged steel, Cast iron and others.

FIGURE NUMBER ABBREVIATIONS



End Connections

F=Flanged(Raised face) W=Butt Weld J=RTJ S=Socket Weld

T=Threaded B=Wafer

X=Special(Customer to specify)

Pressure Class

1 =150 3 = 300

6 = 600

9 = 900

15=1500

25=2500

Type

1=Gate, OS&Y 2=Globe, OS&Y

3=Swing Check

4=Tilting Check 5=Non Return

6=Parallel Gate

7=Angle, OS&Y

8=Through Conduit Gate

Trim Materials

Trim Number	Nominal Trim	Material Type
1	F6	13Cr
2	304	18Cr - 8Ni
3	F310	25Cr - 20Ni
4	Hard F6	Hard 13Cr
5	Hardfaced	Co - Cr A
5A	Hardfaced	Ni - Cr
6	F6 and	13Cr
	Cu-Ni	Cu - Ni
7	F6 and	13Cr
	Hard F6	Hard 13Cr
8	F6 and	13Cr
	Hardfaced	Co - Cr A
8A	F6 and	13Cr
0A	Hardfaced	Ni - Cr
9	Monel**	Ni - Cu alloy
10	316	18Cr - 8Ni
11	Monel and	Ni - Cu alloy
- 11	Hardfaced	Trim 5 or 5A
12	316 and	18Cr - 8Ni
12	Hardfaced	Trim 6 or 5A
13	Alloy 20	19Cr - 29Ni
14	Alloy 20 and	19Cr - 29Ni
14	Hardfaced	Trim 5 or 5A

BODY/BONNET MATERIAL

CB =ASTM A216, WCB =Cast Carbon Steel

=Cast Alloy Steel(5% Chrome, 1/2% Molv) C5 =ASTM A217, C5 =ASTM A217, WC6 C6

=Cast Alloy Steel(1 1/4% Chrome, 1/2% Moly) C9 = ASTM A217, WC9 =Cast Alloy Steel(2 1/4% Chrome, 1% Moly) C12 = ASTM A217, C12 =Cast Alloy Steel(9% Chrome, 1% Moly)

=Cast Low Temperature Carbon Steel LCB =ASTM A352, LCB

=Cast Low Temperature 31/2% Nickel Steel LC3 =ASTM A352, LC3 CF8 = ASTM A351, CF8 =Cast 304 Stainless Steel

C8M =ASTM A351, CF8M =Cast 316 Stainless Steel

A20 = ASTM A351, CN7M =Cast Alloy 20

MO = ASTM A296, M35 =Cast NI CU(Monel**)

SPL =Special(Customer to specify)

SUFFIX LETTERS

BP=By-Pass

BS=Bellows Seal

CL=Chlorine Service

CR=Cryogenic Service

FP=Full Port

FS=Firesafe

GI=Grease Injection GO=Gear Operator

HL=High Lift

HO=Hydraulic Operator

HP=Horizontal Piston Check

MO=Motor Operator

N1=Material to NACE MR-01-75

NR=Non-Return

OL=Outside Weight & Lever

OX=Oxygen Service

PD=Parabolic Disc PO=Pneumatic Operator

PSB=Pressure Seal Bonnet

PT=PTFE Seats

RP=Regular Port

SC=Stop-Check SG=Solid Wedge, Gate SL=Special Lining SO=Safe-o-Seal Bonnet ST=Socket Weld×Threaded TD=Tilting Disc Check TF=Teflon* Insert **UB=Union Bonnet** VT=Viton* Insert

WB=Welded Bonnet

*Viton and Teflon are registered trademarks of DuPont Company.

**Monel is a registered trademark of International Nickel Company.

For End Connections, Body Materials and Trims not listed, please specify.

Please order by size, figure number(which specifies type), pressure class, end connections, materials and special features, as shown above.

ABBREVIATIONS

AARH	Arithmetical Average Roughness Height
ASB	Asbestos
ВВ	Bolted Bonnet
ВС	Bolted Cap
BE	Bevel End
BG-1	Bolted Gland
BG-2	Bevel Gear
BW	Butt Weld
CL	Class
EB	Extension Bonnet
EC	External Coating
EPDM	Ethylene Propylene Diene Monomer
FEP	Fluorinated Ethylene Propylene
FF	Flat Face
FLGD	Flanged
HF.1	Hard Facing
HF.2	HALF
IC	Internal Coating
LB	Long Bonnet
M. BOLT	Machine Bolt
MF	Male & Female
MT	Magnetic particle Test
NRV	Non Return Valve
NBR	Nitrile or Buna-N Rubber
NPT	Nominal Pipe Thread
NRS	Non Rising Stem
OCT	Octagonal Ring Gasket
OS & Y	Outside Screw & Yoke
OVAL	Oval Ring Gasket
PSB	Pressure Seal Bonnet
PC	Pressure Seal Cover

PT	Liquid Penetrant Test
PTFE	Poly Tetra Fluoro Ethylene
PVC	Poly Vinyl Chloride
RF	Raised Face
RS	Rising Stem
RT	Radiograph Test
RTJ	Ring Type Joint
SB	Screwed Bonnet
S.BOLT	Stud Bolt
SC	Screwed Cap
SCH	Schedule
SCRD	Screwed
SDNR	Stem Down Non Return
SF.1	Smooth Finish
SF.2	Stellite Facing
SG	Spur Gear
SMF	Smooth Finish
SMLS	Seamless Product
STD	Standard
STF	Stock Finish
STL	STELLITE
SW	Socket Weld
TFE	Tetra Fluoro Ethylene
TG	Tongue & Groove
UB	Union Bonnet
UC	Union Cap
UT	Ultrasonic flaw detecting Test
WB	Welded Bonnet
WC	Welded Cap
WG	Worm Gear
WN	Welding Neck