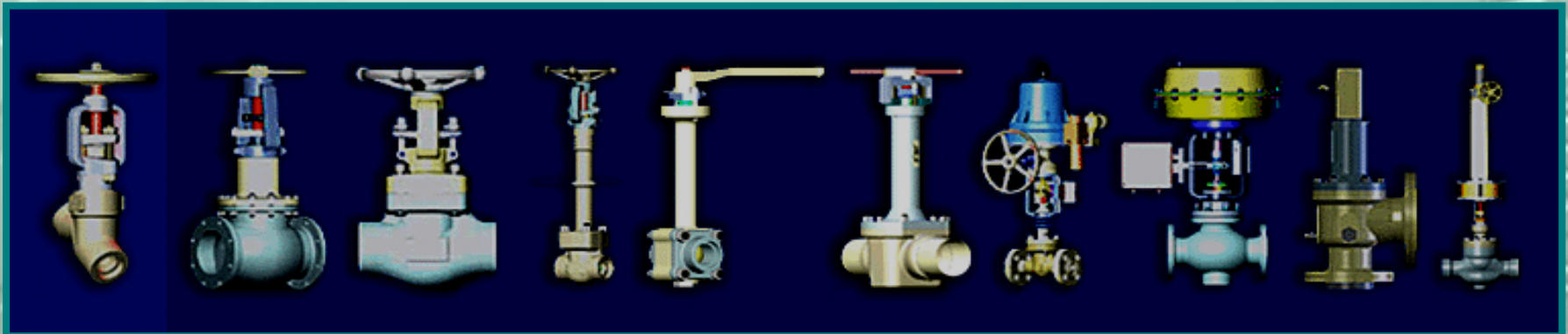


INTRODUCTION



Up-Dated June, 2008

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



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▶ **LOCATION, CAPITAL, EMPLOYEE, CAPACITY, ANNUAL TURNOVER.**

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▶ **QUALITY SYSTEM, CLASS-CERTIFICATE, HONORS&AWARDS**

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▶ **FORGED, CASTED, CRYOGENIC, BELLOWS, CONTROL, SEGMENTAL-BALL, BUTTERFLY, PSV, PRV, POV(AOV), MOV, HOV, INSTRUMENT.**

PERFORMANCE LIST

▶ **SHIPPBUILDING, GAS (LNG-T), NUCLEAR, INDUSTRIAL, CONTROL V/V.**

WORLD WIDE A/S NETWORK

COMPANY HISTORY

1979

- ESTABLISHED KOREA SPECIAL VALVE IND., CO. LTD

1983

- OBTAINED A LICENSE OF HIGH PRESSURE VALVE MANUFACTURER FOR POWER PLANT EQUIPMENT BY KOREA ELECTRIC POWER CORP.
- OBTAINED A LICENSE OF HIGH PRESSURE APPARATUS MANUFACTURER BY KOREA GAS SAFETY CORP.
- REGISTERED & SUPPLIED TO KOGAS (KOREA GAS CORP.) FOR CRYOGENIC MANUAL VALVES.

1984

- ACQUIRED THE FACILITIES OF SAMKWANG METAL CO.,LTD. AND CHANGED COMPANY NAME TO SEO HEUNG METAL CO., LTD.

1986

- ENTERED A TECHNICAL LICENSE AGREEMENT FOR HIGH PRESSURE FORGED STEEL VALVES WITH KENSEI VALVE CO., LTD. (JAPAN)

1989

- MADE A TECHNICAL LICENSE AGREEMENT AND LICENSED CO-MANUFACTURING AGREEMENT WITH KEROTEST (USA) TO PRODUCE NUCLEAR VALVES

1989

■ OBTAINED A LICENSE OF NUCLEAR POWER GENERATION FROM THE MINISTRY OF SCIENCE (KOREA)

1994

■ OBTAINED ISO 9001 CERTIFICATE FROM TÜV-RHEINLAND

1996

■ ESTABLISHED A TECHNICAL LICENSE AGREEMENT AND LICENSED CO-MANUFACTURING AGREEMENT WITH COPES-VULCAN INC. (USA) TO PRODUCE PNEUMATIC CONTROL VALVES

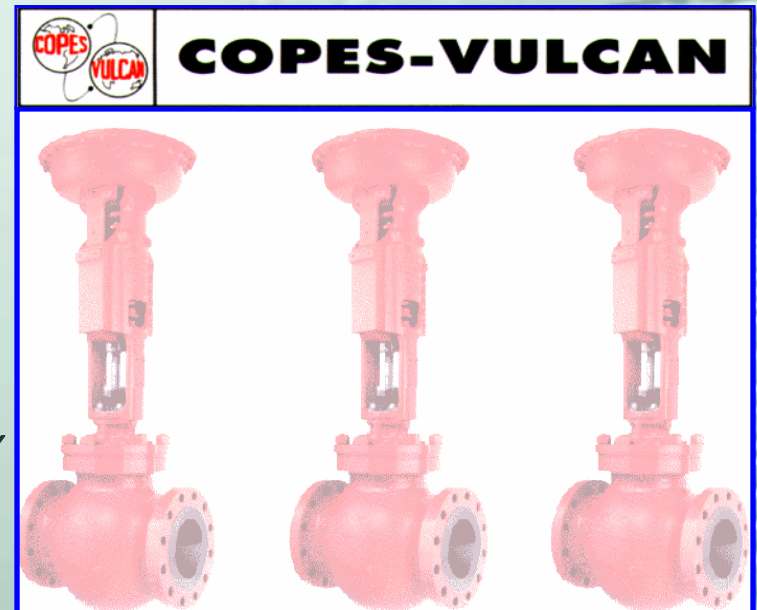
1997

■ OBTAINED A LICENSE OF CONTROL VALVE MAUFACTURER FOR POWER PLANT EQUIPMENT BY KOREA ELECTRIC POWER CO.

1999

■ OBTAINED A LICENSE OF API 6D (LICENSE NO. 6D-0304)

■ OBTAINED A LICENSE OF KEPIC-MN (NEW NUCLEAR QUALITY ASSURANCE SYSTEM) FROM KEA (KOREA ELECTRIC ASSOCIATION)



2001

■ APPROVED AS MANUFACTURER OF CLASS LLOYD'S REGISTER FOR **VARIOUS RAW-MATERIALS**. (VALIDITY 25/07/2007)

■ ACQUIRE CERTIFICATE FROM CLASS **BV** FOR **FORGED, CASTED, AND CRYOGENIC VALVES** (VALIDITY 23/07/2008)

2002

■ RECOGNIZED BY THE SOCIETY AS PER THE PROVISIONS OF RULL NOTE **CNR320** OF CLASS **BV** FOR **VARIOUS RAW-MATERIALS**. (VALIDITY 31/01/2006)

■ OBTAINED **CE CERTIFICATE** FROM TÜV-RHEINLAND FOR **INDUSTRIAL VALVES, CONTROL VALVES, AND SAFETY VALVES**.



2002

■ REGISTERED TO KOGAS (KOREA GAS CORP.) FOR CONTROL AND SAFETY VALVES FOR CRYOGENIC SERVICE.

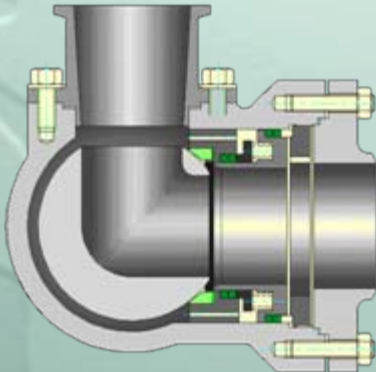
■ OBTAINED A LICENSE OF CONTROL VALVE MANUFACTURER FOR THE NUCLEAR POWER PLANTS BY KOREA HYDRO AND NUCLEAR POWER CORP.

■ SUPPLIED LIQUID -FUELED ROCKET (KSR-III) CONTROL VALVES TO KOREA AEROSPACE R&D INSTITUTE.



2003

■ RENEWED ISO 9001 CERTIFICATE FROM TÜV-RHEINLAND (ISO 2000 CRITERIA).



2003

■ TRANSFERRED SEOHEUNG'S TECHNOLOGY IN CONTROL VALVE TO PAILISITE CO. IN CHINA.

2004

■ PARTICIPATED IN "LNG14 EXHIBITION AT QATAR DOHA" WITH LNG CARGO'S CRYOGENIC VALVES.

■ OBTAINED A QUALITY CERTIFICATE FROM DAEWOO SHIPBUILDING ENG FOR CRYOGENIC VALVES.



2004

■ RE-APPROVED AS MANUFACTURER OF CLASS LLOYD'S REGISTER FOR VARIOUS RAW-MATERIALS. (VALIDITY 2007)

■ APPROVED AS MANUFACTURER OF CLASS DNV, LLOYD'S AND BV'S REGISTER FOR VARIOUS RAW-MATERIALS. (VARIOUS SUBCONTRACTORS)



2005

OBTAINED A LICENSE OF NUCLEAR VALVE MANUFACTURER BY TAIWAN POWER COMPANY FOR FORGED STEEL, CASTED, BELLOWS-SEAL, AND CHEVRON SEAL PACKING VALVES

2006

■ CO-DEVELOPED THE TUBINE BYPASS CONTROL VALVES & PRDS WITH KEPRI. (KOREA ELECTRIC POWER RESEARCH INSTITUTE)



2007

- CO-DEVELOPED THE HIGH-PERFORMANCE TOP-ENTRY BALL CONTROL VALVES WITH MKE (MINISTRY OF KNOWLEDGE ECONOMY)
 - SIZE: ½"~36", 150LB~1500LB
 - APP. TEMP.: -196 °C to + 450 °C

2008

- CHANGED COMPANY NAME TO S&S VALVE CO., LTD.

2008

- CO-DEVELOP THE LONG DISTANCE LIQUID FUELED ROCKET CONTROL VALVES FOR EARTH SATELLITE WITH KOREA AEROSPACE R&D INSTITUTE.



2008

- OBTAINED ASME "N & NPT" STAMP FROM ABS FOR CASTING VALVES, FORGED VALVES, CONTROL VALVES, BUTTERFLY VALVES, PLUG VALVES, SAFETY RELIEF VALVES (PSV), PRESS. REDUCING VALVES (PRV) AND INSTRUMENT VALVES. (THE END OF AUGUST, 2008)



2008

- OBTAINED UV STAMP FROM ABS FOR SAFETY & RELIEF VALVES (THE END OF 2008)



GENERAL INFORMATION

S&S GROUP

- HEAD OFFICE

Website: www.seoheungvalve.com

15TH FL, S&S BUILDING, #68-5 GYEONJI-DONG,
JONGNO-GU, SEOUL, KOREA

TEL : 82-2-735-6521 FAX : 82-2-735-7596

- VALVE FACTORY S&S VALVE

#1080-1 SHINGIL-DONG, DANWON-GU,
ANSAN-SI, GYEONGGI-DO, KOREA
TEL : 82-31-491-1747 FAX : 82-31-491-0618

- FORGING FACTORY S&S METAL

#775-3 WONSI-DONG, ANSAN-SI,
GYEONGGI-DO, KOREA
TEL : 82-31-491-0711 FAX : 82-31-491-0017

- HOT FORMER FACTORY S&S INC

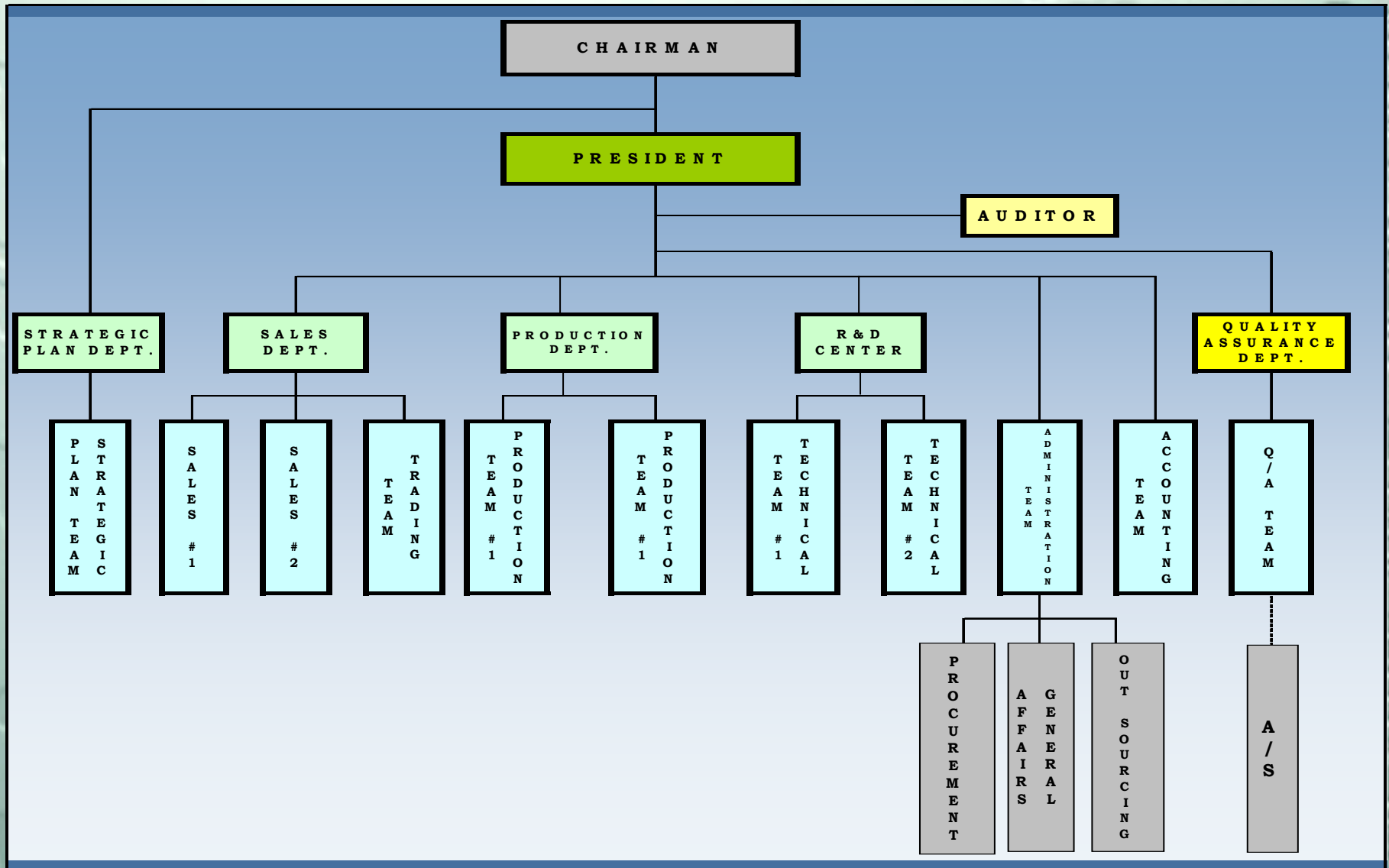
#1080-2 SHINGIL-DONG, DANWON-GU,
ANSAN-SI, GYEONGGI-DO, KOREA
TEL : 82-31-495-6320 FAX : 82-31-495-6335

- JAE-SUNG SOCIAL WELFARE FOUNDATION(YUDANG VILLAGE)

#119-3 CHOWON-DONG, JANGAN-GU
SUWON-SI, GYEONGGI-DO, KOREA
TEL : 82-31-242-0079 FAX : 82-31-255-2453



ORGANIZATION



Capital

- NET ASSETS : USD 4.3 MILLION (VALVE DIV')
- NET ASSETS : USD 4.3 MILLION (FORGING DIV')

Employees

VALVE FACTORY		FORGING FACTORY	
- 106 PERSONS		- 126 PERSONS	
ENGINEER	: 20		: 17
MECHANICAL	: 12		: 7
METALLURGICAL	: 4		: 5
CHEMICAL	: 1		: 1
OTHERS	: 6		: 4

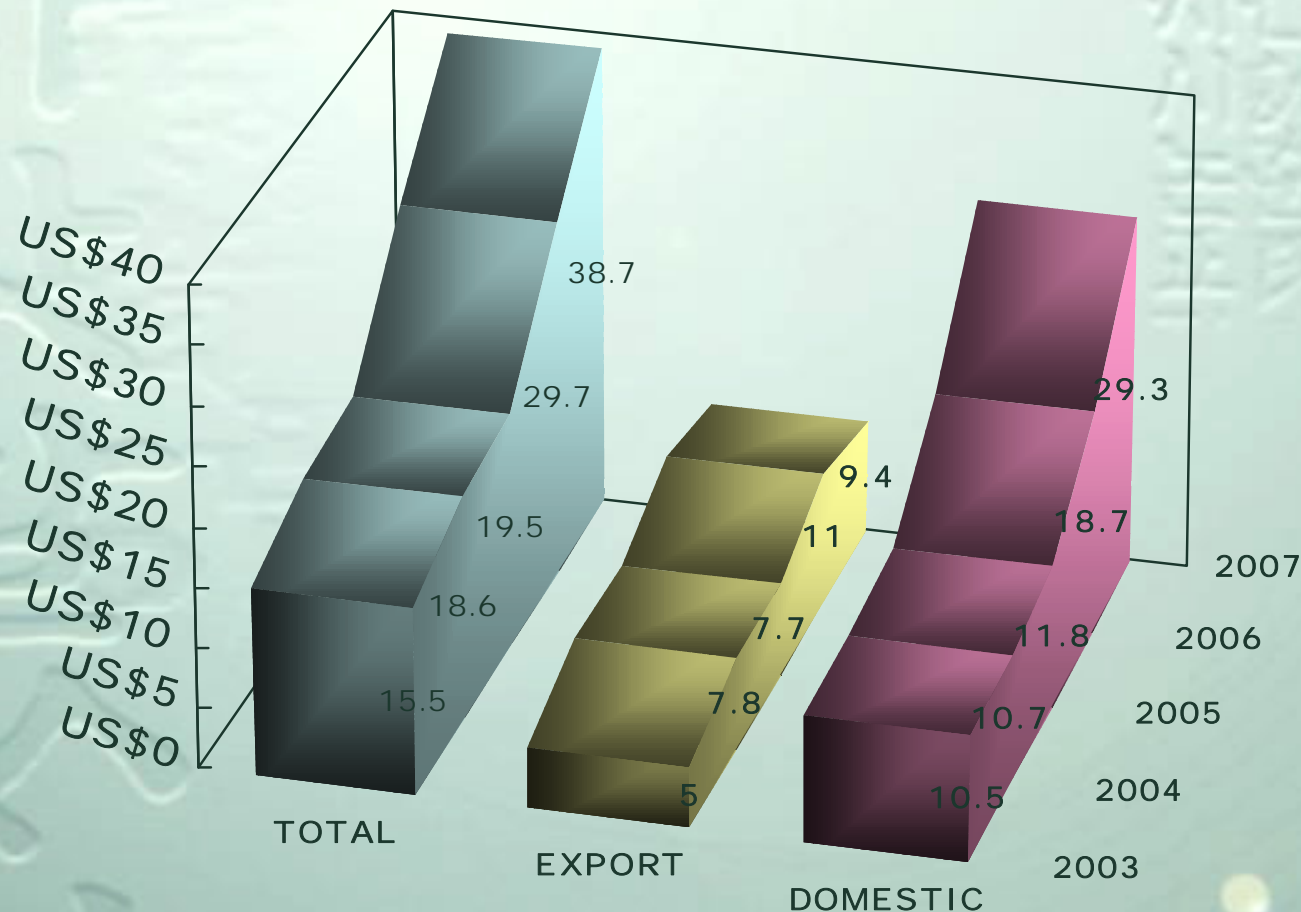
Product Capacity

- VALVE FACTORY : 20,000 PCS / MONTH
 - FORGING FACTORY : 1,800 TONS / MONTH
- [MACHINING ASSEMBLY TEST1 TEST2](#)

Site & Building

- VALVE FACTORY : 23,800 M²
- FORGING FACTORY : 17,703 M²

Annual Turnover (Last 5 Years/ Million USD)



LICENSES & CERTIFICATES

QUALITY SYSTEM GROUP

ISO9001 (ED.2000)

CE, API 6D

KEPIC-MN (NUCLEAR)

ASME "N/NPT" (NUCLEAR)

UV (PSV)

CLASS CERTI. OF SHIPBUILDING

BV, DNV, LLOYD, ABS

KGSC (ON-SHORE)

WPS&PQR

(LLOYD'S, ABS, BV/DNV)

HONORS AND AWARDS

PATENT (THREE)

UTILITY (SEVEN)

BRAND (ONE, SAVE)

DESIGN (ONE)

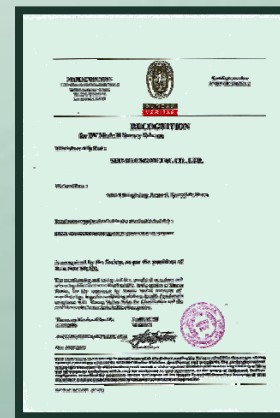
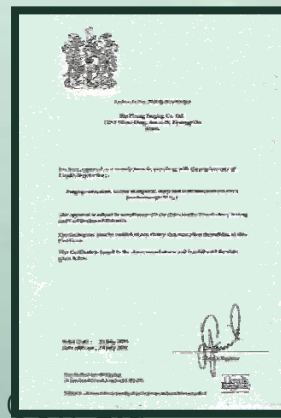
FUNCTIONAL & QUALITY

FIRE TEST (TUV)

LIFE CYCLE (TUV, BELLOWS)

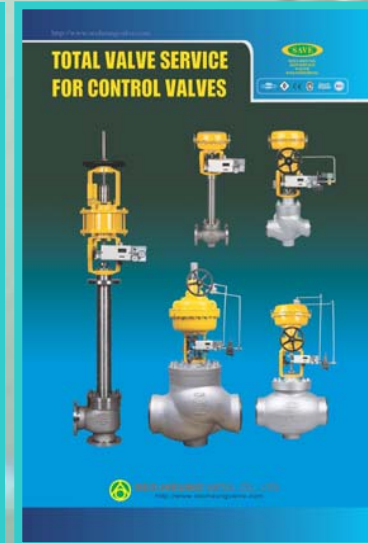
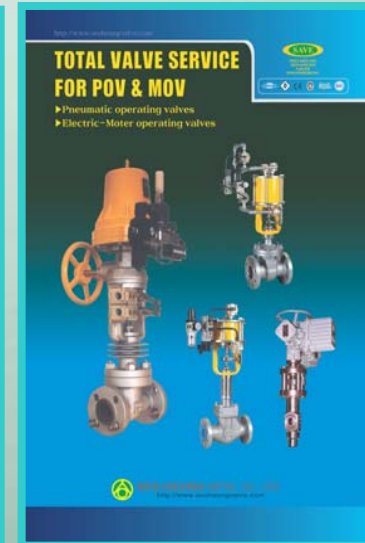
DSME (DAEWOO LNG-CARRIER)

EM (EXCELLENT MARK)



KINDS OF SAVE-BRAND PRODUCTS

- FORGED STEEL VALVES
- CASTING VALVES
- BELLOWS-SEALED VALVES
- CONTROL VALVES
- POV & MOV
- BALL VALVES (2P, 3P)
- TOP-ENTRY BALL VALVES
- SEGMENTAL BALL VALVES
- TURBINE BYPASS VALVES
- SAFETY & RELIEF VALVES
- PRESSURE REDUCING VALVES
- INSTRUMENTS&MANIFOLDS
- PLUG VALVES
- BUTTERFLY VALVES
- CUSTOM DESIGN VALVES
- PIPING MATERIALS (SUMITOMO)



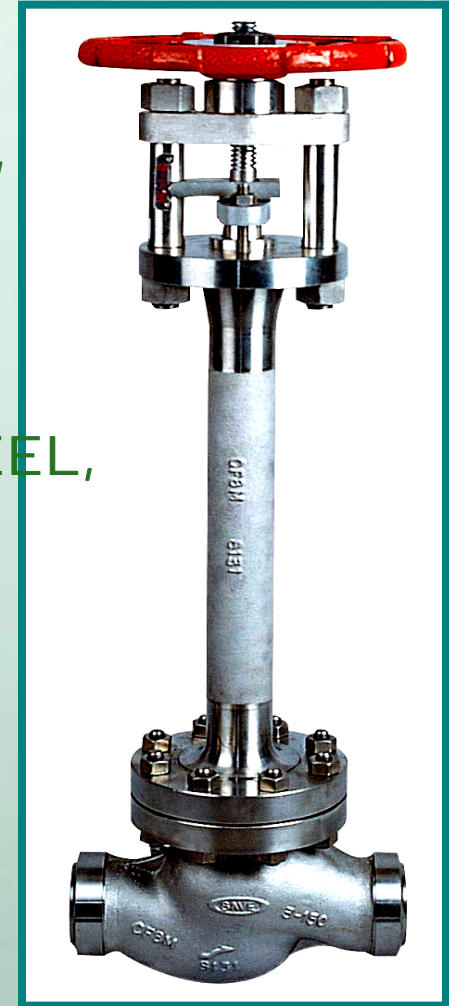
■ FORGED STEEL VALVES

TYPE	GATE, GLOBE, CHECK, <u>Y-GLOBE</u> , BALL, NEEDLE, ANGLE, ETC.
SIZE	1/4" ~ 2"
BONNET	BB, WB, PSB, EXT
MAT'L	A105, F304(L), F316(L), F1, F5, F9, F11, F22, F347, LF2, DUPLEX, HIGH-ALLOY, ETC.
RATING	ANSI # 150 ~ # 4500
END TYPE	SW, THREADED, BW, FLANGED



CASTING VALVES

TYPE	GATE, <u>GLOBE</u> , CHECK, BALL, PLUG, ETC.
SIZE	2" (50A) ~ 48" (1200A)
BONNET	BB, PSB, EXT
MAT'L	C.S., ALLOY, STAINLESS STEEL, ETC.
RATING	ANSI # 150 ~ # 2500
END TYPE	BW, FLANGED



CRYOGENIC VALVES

TYPE	<u>GATE</u> , <u>GLOBE</u> , <u>ANGLE</u> , <u>NEEDLE</u> , <u>CHECK</u> , <u>BALL (3-PIECE)</u> , <u>BALL (TOP-ENTRY)</u>
SIZE	1/2" ~ 2" (FORGED) 2" ~ 24" (CASTED)
BONNET	LONG EXT. (DRIP-PLATE)
MAT'L	F304, F316, CF8, CF8M F304L, F316L, CF3, CF3M
RATING	UP TO ANSI # 2500
TEMP.	DOWN TO - 196 °C
TYPICAL	MANUAL, CONTROL
SERIES	AOV, MOV, HOV, PSV, PRV
OPERATING	<u>LEVER</u> , <u>HAND-WHEEL</u> , <u>WORM-GEAR</u> , <u>ACTUATORS</u>



■ BELLOWS SEALED VALVES

TYPE GATE, GLOBE, Y-GLOBE, POV & MOV

SIZE ¼" ~ 2" (FORGED)

2" ~ 12" (CASTED)

BODY A105, F304(L), F316(L),

MAT'L F1, F5, F9, F11, F22, F347,
LF2, F316L(STD), F321,

BELLOWS 316, 316L, 321, ETC

MAT'L INCONEL, HASTELLOY
STEEL, ETC

RATING ANSI # 150 ~ # 2500

TEMP. -196°C ~ 650°C



■ CONTROL VALVES

SS-1000 SERIES (2-WAY, 3-WAY)

TYPE	GLOBE, TOP GUIDE TRIM
SIZE	1/2" (15A) ~ 16" (400A)
RATING	ANSI # 150 ~ # 300
TEMP.	-196°C ~ 550°C
APPLICATION	GENERAL SERVICE



SS-1010 SERIES (2-WAY, 3-WAY)

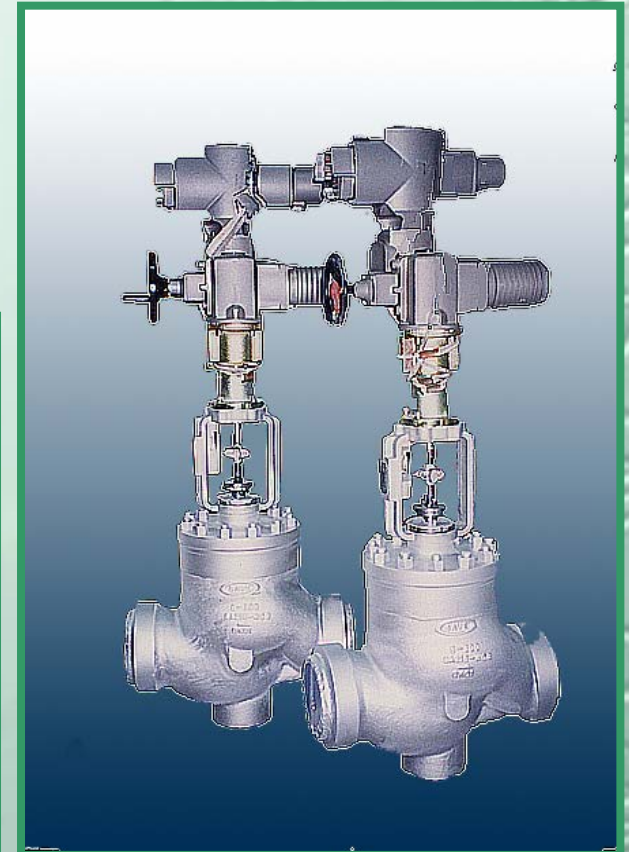
TYPE GLOBE, QUICK CHANGE TRIM

SIZE 1/2" (15A) ~ 24" (600A)

RATING ANSI # 150 ~ # 4500

TEMP. -196°C ~ 550°C

APPLICATION SEVERE DUTY SERVICES



■ SEGMENTAL BALL VALVES

MODEL: SS-3090 SERIES (CONCENTRIC)

SIZE ½" (15A) ~ 16" (400A)

RATING ANSI # 150 ~ #1500

TEMP. -196 °C ~ 550°C

TYPE HALF-BALL TYPE

APPLICATION SLURRY, PAPER, PULP, ETC.



MODEL: SS-3050 SERIES (ECCENTRIC)

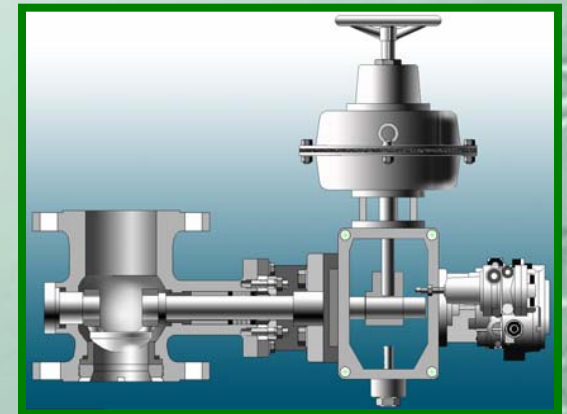
SIZE ½" (15A) ~ 16" (400A)

RATING ANSI # 150 ~ #1500

TEMP. -196 °C ~ 550°C

TYPE HALF-BALL TYPE

APPLICATION HIGH-RANGE ABILITY (500:1)
(CONTROL & SLURRY)



BUTTERFLY VALVES

SS-4000 SERIES (CONCENTRIC)

SIZE 2" (50A) ~ 24" (600A)

RATING ANSI # 150 ~ #300

TEMP. -40°C ~ 350°C

TYPE METAL , RUBBER-LINED

APPLICATION GENERAL PROCESS



SS-4060 SERIES (ECCENTRIC)

SIZE 2" (50A) ~ 24" (600A)

RATING ANSI # 150 ~ #600

TEMP. -196 °C ~ 560°C

TYPE ECCENTRIC

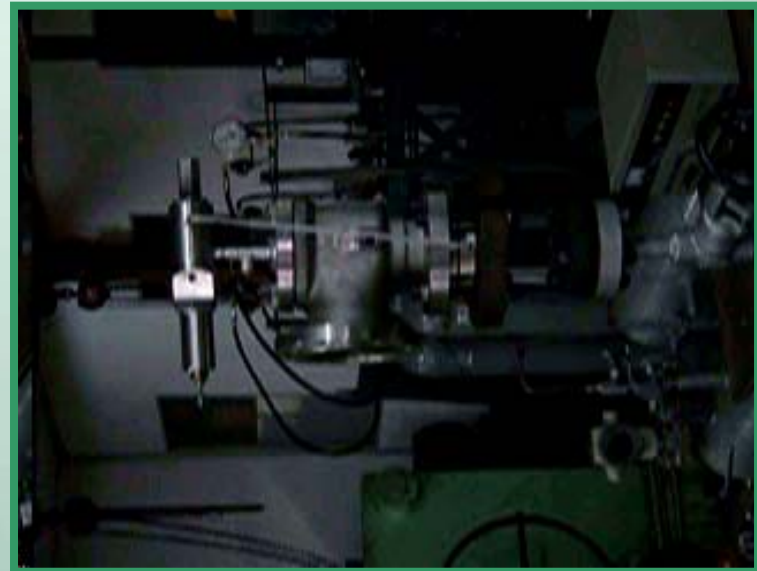
APPLICATION GENERAL PROCESS



SAFETY & RELIEF VALVES (PSV)



TYPE CONVENTIONAL, BELLOWS, PILOT
SIZE ½" (15A) ~ 14" (350A)
RATING ANSI #150~~ #2500
TEMP. -196 °C~ 550 °C
CODE ASME SECTION VIII (FOR VESSEL)



■ PRESS. REDUCING VALVES (PRV)

TYPE	DIAPHRAGM , CYLINDER
SIZE	½" (15A) ~ 14" (350A)
RATING	ANSI #150~~ #4500
TEMP.	-196 °C~ 250 °C
FLUID	WATER, OIL, GASES



PNEUMATIC OPERATED VALVES

(POV, AOV)

TYPE	GLOBE, GATE, BALL, BUTTERFLY, CRYOGENIC , BELLOWS-SEAL, ETC.
SIZE	½"(15A)~ 16"(400A)
RATING	ANSI #150~ #2500
MAT'L	FORGED, CASTED
BONNET	BB, WB, PSB, EXT, FIN
ACTUATOR	PISTON CYLINDER , ROTARY CYLINDER , DIAPHRAGM



■ MOTOR OPERATED VALVES (MOV)

TYPE GLOBE, GATE, BALL
BUTTERFLY

SIZE ½" (15A) ~ 28" (700A)

RATING ANSI #150 ~ #4500

MAT'L FORGED, CASTED

BONNET BB, WB, PSB, EXT, FIN

ACTUATOR LIMITORQUE, AUMA
ROTORK, ETC.



■ HYDRAULIC OPERATED VALVES (HOV-REMOTE TYPE)

TYPE	GLOBE, GATE, ANGLE, CONTROL, BUTTERFLY, BALL, ETC.
SIZE	½"(15A)~ 28"(700A)
RATING	ANSI #150~ #4500
MAT'L	FORGED, CASTED, CUSTOMIZED
BONNET	BB, WB, PSB, EXT, FIN
ACTUATOR	CUSTOMIZED MAKERS, CENTORK, DANFOSS, BERNARD, SEIL SERES, ETC.



■ CONTROL VALVE FOR STEAM TURBINE

TYPE	ASTERN GUARD VALVE.
SIZE	8"
RATING	1500LB
MAT'L	CAST STEEL(A217-WC6)
BONNET	BOLTED BONNET
CONN.	ANSI 1500# RF
OPERATOR	HYDRAULIC OPERATED CYLINDER



PERFORMANCE OF FIVE GROUPS

SHIPBUILDING GROUP

DAEWOO LNG-CARRIER

SAMSUNG LNG-CARRIER

HYUNDAI LNG-CARRIER

HYUNDAI-SAMHO LNG-CARRIER

JAPAN (EXPORT)

GAS PLANT GROUP

LNG-TERMINAL (KOGAS)

LIQUEFIED PLANT (LO₂, LN₂, NF₃)

AEROSPACE EQUIPMENT

NUCLEAR V/V GROUP

SAFETY CLASS "Q" ASME SEC.III
(CLASS - I, II & III)

ASME B31.1 NON-SAFETY CLASS

INDUSTRIAL V/V GROUP

EXPORT (WESTERN, MIDDLE-EAST)
EXPORT (JAPAN, CHINA, ASIA)

CONTROL V/V GROUP

POWER PLANT (DOMESTIC)
POWER PLANT (EXPORT)
GAS PLANT (DOMESTIC)

DSME

H2205

- TAPIAS LNG CARRIER(Operating) -321 PCS/ 2001 YEAR
 - CRYOGENIC BALL ½", 3", 6", 8" - 2001 YEAR

H2209

- TEEKAY LNG CARRIER(Operating) -321 PCS/ 2001 YEAR
 - CRYOGENIC BALL ½", 3", 6", 8" - 2001 YEAR

H2227

- KRISTEN LNG CARRIER(Operating) -377 PCS/ 2004 YEAR
 - CRYOGENIC BALL ½", 1", 3", 6", 8"
 - NON-CRYOGENIC BALL V/V ½"

H2228

H2236

- KNUTSEN LNG CARRIER(Operating) -382 PCS / 2005 YEAR
 - CRYOGENIC BALL ½", 1", 3", 6", 8"

DSME

H2233

- TMT LNG CARRIER(Operating) -438 PCS / 2005 YEAR
 - CRYOGENIC BALL ½", 1", 1.5", 2", 2.5", 3", 8"
 - CRYOGENIC REMOTE GLOBE
 - 1", 1.5", 2", 2.5", 3", 8", 12"
 - CRYOGENIC GLOBE V/V 1", 1.5", 2", 2.5", 3"
 - CRYOGENIC GATE 8"
 - CRYOGENIC SDRN 1", 4", 14"
 - CRYOGENIC SWING CHECK 1", 4", 14"
 - CRYOGENIC LIFT CHECK 2", 2.5", 8"
 - CRYOGENIC DUAL CHECK 10", 20"

H2235

- KRISTEN LNG CARRIER - 377 PCS / 2006 YEAR

H2243

- CRYOGENIC BALLV/V ½", 3", 6", 8"
- NON-CRYOGENIC BALL V/V ½"

H2238

- TEEKAY LNG CARRIER - 1083 PCS / 2005 ~ 2006 YEAR

H2239

- CRYOGENIC BALLV/V ½", 3", 6", 8"

H2240

DSME

H2245



PRONAV LNG CARRIER - 644 PCS / 2006 YEAR

- CRYOGENIC BALL 1-1/2", 2-1/2", 3", 6", 10"
- CRYOGENIC REMOTE GLOBE
1", 1.5", 2", 2.5", 3", 8", 12"
- CRYOGENIC GLOBE V/V 1", 1.5", 2", 2.5", 3"
- CRYOGENIC GATE 12"
- CRYOGENIC SDRN 1"
- CRYOGENIC SWING CHECK 1", 6", 14"
- CRYOGENIC LIFT CHECK 2", 2.5", 8"
- CRYOGENIC DUAL CHECK 10", 20"

H2249



J5 LNG CARRIER - 800 PCS / 2007 YEAR

- CRYOGENIC BALL 1-1/2", 2-1/2", 3", 6", 10"
- CRYOGENIC REMOTE GLOBE 1", 1.5", 2", 2.5", 3", 8", 12"
- CRYOGENIC GLOBE ,GATE V/V 1", 1.5", 2", 2.5", 3", 12"
- CRYOGENIC SDRN 1", 1-1/2"
- CRYOGENIC SWING CHECK 1", 6", 14"
- CRYOGENIC LIFT CHECK 2", 2.5", 8"
- CRYOGENIC DUAL CHECK 20"

H2250

H2251

H2252

H2253

DSME

H2241

■ SOVCOMFLOT LNG CARRIER, 850 PCS / 2007 YEAR

- CRYOGENIC BALL ½", 1", 1.5", 2", 2.5", 3", 8"
- CRYOGENIC REMOTE GLOBE 1", 1.5", 2", 2.5", 3", 8", 12"
- CRYOGENIC GLOBE ,GATE V/V 1", 1.5", 2", 2.5", 3"
- CRYOGENIC SDRN 1", 4", 14"
- CRYOGENIC SWING CHECK 1", 4", 14"
- CRYOGENIC LIFT CHECK 2", 2.5", 8"
- CRYOGENIC DUAL CHECK 10", 20"

H2260

■ KLC/KOGAS LNG CARRIER, 914 PCS / 2007 YEAR

- CRYOGENIC BALL ½", 1", 1.5", 2", 2.5", 3", 8"
- CRYOGENIC REMOTE GLOBE 1", 1.5", 2", 2.5", 3", 8", 12"
- CRYOGENIC GLOBE ,GATE V/V 1", 1.5", 2", 2.5", 3"
- CRYOGENIC SDRN 1", 4", 14"
- CRYOGENIC SWING CHECK 1", 4", 14"
- CRYOGENIC LIFT CHECK 2", 2.5", 8"
- CRYOGENIC DUAL CHECK 10", 20"

H2261

H2249

■ J5 LNG CARRIER – 6 PCS / 2007 YEAR

- SAFETY VALVE 1" , 4"

DSME

H2255



QGTC LNG CARRIER 25 PCS / 2007 YEAR

- CRYOGENIC BALL ½", 1", 2", 2.5", 6", 10"

H2256

H2257

H2264



QGTC LNG CARRIER, 25 PCS / 2008 YEAR

- CRYOGENIC BALL ½", 1", 2", 2.5", 6", 10"

H2265

H2266

H2283



QGTC LNG CARRIER, 25 PCS / 2008 YEAR

- CRYOGENIC BALL ½", 1", 2", 2.5", 6", 10"

H2284

H2285

H2286

DSME

H2268

H2278

- TMT LNG CARRIER -438 PCS / 2008 YEAR
 - CRYOGENIC BALL ½", 1", 1.5", 2", 2.5", 3", 8"
 - CRYOGENIC REMOTE GLOBE
 - 1", 1.5", 2", 2.5", 3", 8", 12"
 - CRYOGENIC GLOBE V/V 1", 1.5", 2", 2.5", 3"
 - CRYOGENIC GATE 8"
 - CRYOGENIC SDRN 1", 4", 14"
 - CRYOGENIC SWING CHECK 1", 4", 14"
 - CRYOGENIC LIFT CHECK 2", 2.5", 8"
 - CRYOGENIC DUAL CHECK 10", 20"

SAMSUNG HEAVY IND.

H1440

- RASGAS-3J LNG CARRIER(Operating) -414 PCS/2004 YEAR

H1441

- CRYOGENIC NEEDLE V/V ½"
- NON-CRYOGENIC NEEDLE V/V 1"
- CRYOGENIC BALLV/V 3"

H1442

H1502

- MISC LNG CARRIER(Operating) -414 PCS/2004 YEAR

- CRYOGENIC NEEDLE V/V ½"
- NON-CRYOGENIC NEEDLE V/V 1"
- CRYOGENIC BALLV/V 3"

SAMSUNG HEAVY IND.

H1503

- MISC LNG CARRIER(Operating) -414 PCS/2005 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1536

- OMAN LNG CARRIER(Operating) -644 PCS/2005 YEAR
 - CRYOGENIC NEEDLE V/V ½", 1"
 - NON-CRYOGENIC NEEDLE V/V ½", 1"
 - CRYOGENIC BALLV/V 3"
 - CRYOGENIC REMOTE CONTROL V/V
 - CRYOGENIC CHECK/ DUAL CHECK V/V
 - CRYOGENIC CONTROL V/V /3-WAY CONTROL V/V
 - CRYOGENIC GLOBE&SDNR GLOBE&GATE V/V

H1573

- OMAN LNG CARRIER(Operating) -644 PCS /2005 YEAR
 - CRYOGENIC NEEDLE V/V ½", 1"
 - NON-CRYOGENIC NEEDLE V/V ½", 1"
 - CRYOGENIC BALLV/V 3"
 - CRYOGENIC REMOTE CONTROL V/V
 - CRYOGENIC CHECK/ DUAL CHECK
 - CRYOGENIC CONTROL V/V /3-WAY CONTROL
 - CRYOGENIC GLOBE&SDNR GLOBE&GATE V/V

SAMSUNG HEAVY IND.

H1589

- MISC LNG CARRIER(Operating) -414 PCS/2005 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1590

- MISC LNG CARRIER - 414 PCS/2005 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1591

- MISC LNG CARRIER - 414 PCS/2005 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1605**H1606**

- QATAR GAS OSG LNG CARRIER - 360 PCS/2006 YEAR
 - CRYOGENIC BALLV/V ½",1",2",2.5",3",5"
 - CRYOGENIC REMOTE BALLV/V 1.5",2",3"

SAMSUNG HEAVY IND.

H1563

H1564

- NYK LNG CARRIER(H1563) -444 PCS/2006 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1594

- RASGAS-4J LNG CARRIER(H1594) -414 PCS/2005 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1619

H1620

H1634

- K-LINE LNG CARRIER(H1619) -1,446 PCS/2007 YEAR
 - CRYOGENIC NEEDLE V/V ½"
 - NON-CRYOGENIC NEEDLE V/V 1"
 - CRYOGENIC BALLV/V 3"

H1688

H1689

- LEIF HOEGH &CO.AS LNG CARRIER- 8 PCS/2008 YEAR
 - CRYOGENIC BALLV/V 3"

HYUNDAI HEAVY IND.

H1791

H1792

- QATAR GAS II OSG LNG CARRIER – 360 PCS/2006 YEAR
 - CRYOGENIC BALLV/V ½", 1", 2", 2.5", 3", 5"
 - CRYOGENIC REMOTE BALLV/V 1.5", 2", 3"

H1777

H1778

H1779

H1780

- BP (TEEKAY) LNG CARRIER – 195 SET/2006 ~ 2007 YEAR
 - CRYOGENIC NEEDLE V/V ½", 1"
 - CRYOGENIC DOUBLE NEEDLE V/V ½", 1"
 - N2 BLEED CONTROL VALVE 1"

HYUNDAI HEAVY IND.

H1862

■ J5 LNG CARRIER(H1862) -457 SET/2006~2007YEAR

- CRYOGENIC BALL V/V ½" ,1" ,2" ,2-1/2" ,3" ,5"
- N2 BLEED CONTROL V/V 1"
- CRYOGENIC REMOTE GLOBE V/V 2" ,2-2/1" ,8" ,12"
- CRYOGENIC GLOBE,GATE,CHECK V/V 1" ,3" ,2-1/2" ,8" ,12" ,16"

H1863**H1875****H1876**

■ MOL LNG CARRIER(H1876) -430 SET/2007 YEAR

- CRYOGENIC BALL V/V ½" ,1" ,2" ,2-1/2" ,3" ,5"
- N2 BLEED CONTROL V/V 1"
- CRYOGENIC REMOTE GLOBE V/V 2" ,2-2/1" ,8" ,12"
- CRYOGENIC GLOBE,GATE,CHECK V/V 1" ,3" ,2-1/2" ,8" ,12" ,16"

H1903

■ HMM/KOGAS LNG CARRIER(H1903) -341 SET/2007 YEAR

- CRYOGENIC NEEDLE V/V ½" ,1"
- N2 BLEED CONTROL V/V 1"

HYUNDAI-SAMHO IND.

S297

■ BP LNG CARRIER(H1777) -195 SET/2007 YEAR

- CRYOGENIC NEEDLE V/V ½" ,1"
- CRYOGENIC DOUBLE NEEDLE V/V ½",1"
- N2 BLEED CONTROL VALVE 1"

S298**S324**

■ MOL LNG CARRIER(H1876) -430 SET/2007 YEAR

- CRYOGENIC BALL V/V ½" ,1",2",2-1/2",3",5"
- N2 BLEED CONTROL V/V 1"
- CRYOGENIC REMOTE GLOBE V/V 2",2-1/2",8",12"
- CRYOGENIC GLOBE,GATE,CHECK V/V 1",3",2-1/2",8",12",16"

HAN-JIN HEAVY IND.

N192

N193

■ STX Pan Ocean/KOGAS LNG CARRIER - 544 SET/2007
~ 2008YEAR

- CRYOGENIC BALL V/V 1-1/2", 3" - (16EA)
- N2 BLEED CONTROL V/V 1" - (17 SET)
- CRYOGENIC NEEDLE V/V 1/2", 1" - (394EA)
- CRYOGENIC REMOTE GLOBE V/V 2", 2-1/2", 8", 12" - (16 SET)
- CRYOGENIC GLOBE, GATE, CHECK V/V
1", 3", 2-1/2", 8", 12", 16" - (60 SET)

STX SHIPBUILDING CO., LTD.

S-3008

+3 OPTION

- ELCANO S.A / 173 LNG CARRIER – 106 SET/2008~2009YEAR
 - CRYOGENIC BALL V/V 1-1/2", 3", 6", 8" (252EA)
 - CRYOGENIC REMOTE BALL V/V 6" (1EA)
 - CRYOGENIC GLOBE V/V 1, 1-1/2", 2", 2-1/2", 3", 6" - (38EA)
 - CRYOGENIC REMOTE GLOBE V/V 1-1/2", 2", 2-1/2" 3", 8", 12" - (31 SET)
 - CRYOGENIC LIFT CHECK/ SWING CHECK/ DUAL CHECK/ SDNR V/V 1", 1-1/2", 2-1/2", 4", 6", 8", 14", 20" - (33 SET)
 - FLIV (FLOATING LEVEL INSULATION VALVE) – 12" (3EA)

SHIPBUILDING EXPORT - JAPAN

DESCRIPTION	Q'TY PCS	CUSTOMER	SHIP NO.	OWNER	CLASS	DELIVERY TIME
#900 RF GLOBE V/V #900 RF Y-GLOBE #1500 RF GLOBE #1500 RF N/GLOBE #900 RF S/DOWN	148	MHI MES	MHI S2165 MHI H319 MES S1506	NOT KNOWN	LLOYD	AUG,1998
#900 RF GLOBE V/V #900 RF Y-GLOBE #1500 RF GLOBE #1500 RF N/GLOBE #900 RF S/DOWN	250	MHI	NOT KNOWN	NOT KNOWN	LLOYD	JAN,1999
#900 RF GLOBE V/V #900 RF Y-GLOBE #1500 RF GLOBE #1500 RF N/GLOBE #900 RF S/DOWN	300	MHI	H321 H103	ENAGAS	LLOYD	DEC,1999

SHIPBUILDING EXPORT - JAPAN

DESCRIPTION	Q'TY PCS	CUSTOMER	SHIP NO.	OWNER	CLASS	DELIVERY TIME
#1500 RF N/GLOBE #1500 RF GLOBE #900 RF S/DOWN #1500 RF N/GLOBE #900 RF Y-GLOBE	450	MHI	H321 H103	ENAGAS	LLOYD	MAR,2001
#900 RF GLOBE V/V #900 ANGLE #600 RF GLOBE #300 RF L/CHECK #300 RF S/DOWN	500	MHI	H078 H321 H103	IEAR	LLOYD	JUL.2002
NEEDLE VALVES, GLOBE VALVES ANGLE NEEDLE V/V (LNG CARRIER)	1,185	MHI	S2220 S2221 S2222 S2223 S2224	MISC	LLOYD ABS	FEB,2006

SHIPBUILDING EXPORT - JAPAN

DESCRIPTION	Q'TY PCS	CUSTOMER	SHIP NO.	OWNER	CLASS	DELIVERY TIME
TOPENTRY BALL V/V	522	MHI	S2229 S2230	NYK/MOL	LLOYD	JAN,2006 APR, 2006
TOPENTRY BALL V/V	51	MHI	S2219 + 2-OPTION	TOKYO DENRYOKU	LLOYD	SEP,2009 FEB, 2007 JUN, 2007
TOPENTRY BALL V/V, NEEDLE VALVES, GAUGE VALVES	534	KOYO	S2258	K-LINE	LLOYD	FEB, 2006

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
SAMSUNG ENGINEERING & CONST. CO., LTD.	GATE, GLOBE, CHECK	1986	2,400 PCS	HONAM ETYLENE LST. (YEOCHEUN, KOREA)
DAELIM ENG'NEERING CO., LTD	#800, #1500 GATE, GLOBE, CHECK	1986 - 1987	3,200 PCS	KOREA PETROCHEMICAL IND. CO., LTD.
SAMSUNG ENGINEERING & CONST. CO., LTD.	#150 ~ #1500 GATE, GLOBE, CHECK, NEEDLE	1989 - 1990	2,800 PCS	INDONESIA EOEG PROJECT
SUNKYUNG ENGINEERING & CONST. CO., LTD.	#150 ~ #800 GATE, GLOBE, CHECK	1990	520 PCS	SUNKYUNG INDUSTRY DMT/PTA PROJECT
DAELIM IND. CO., LTD.	GATE, GLOBE, CHECK	1992	600 PCS	MRO

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
SAMSUNG HEAVEY IND. CO., LTD.	GATE, GLOBE, CHECK, BALL	1993 - 1994	500 PCS	KOREA, STEEL
HANYANG CO., LTD	GATE, GLOBE, CHECK, BALL	1993 - 1994	200 PCS	KOREA GAS CORP. PYEONG TAEK LNG-TERMINAL
DAELIM IND. CO., LTD.	GATE, GLOBE, CHECK, BALL	1995 - 1999	12,000 PCS	KOREA GAS CORP. INCHEON LNG-TERMINAL
KUKJAL INT.	CONTROL-GLOBE #300, 8", ETC.	1996 - 1997	28 PCS	UNION GAS (CHUNGJU, KOREA)
SHINKANG ENG'G	CONTROL-GLOBE JIS20K, 8", ETC.	1996 - 1997	30 PCS	SAMSUNG PETROCHEMICAL (ULSAN, KOREA)

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
E.I.C. TECH.	CONTROL VALVES GLOBE & BALL 10K, 20K, 12", ETC.	1996 - 1997	52 PCS	POSCO OXYGEN-PLANT (KWANGYANG, KOREA)
SHINHWA ENT	CONTROL VALVES GLOBE & BALL 10K, 20K, 12", ETC.	1996 - 1997	68 PCS	POSCO OXYGEN-PLANT (POHANG, KOREA)
DAEWOO CORP.	GATE, GLOBE, CHECK, BALL	1998	1,300 PCS	KOREA GAS CORP. INCHEON LNG-TERMINAL #6
DAEIN IND.	CONTROL VALVES GLOBE & GATE 10K, 20K, 10", ETC.	1998	24 PCS	POSCO OXYGEN-PLANT (POHANG, KOREA)
KOREA GAS CORP.	CONTROL VALVES, GLOBE, BALL, #150 #300, #600, 8", ETC.	1998	72 PCS	PILOT PLANT (INCHEON)

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
POSCO ENG'G & CONST. CO., LTD.	CONTROL VALVES, GLOBE, BALL, 10K, 20K, 12", ETC.	1998	112 PCS	POSCO OXYGEN 5&6 PLANT (POHANG)
HONAM INS.	CONTROL-GLOBE #150, #300, 12", ETC.	1998	22 PCS	HONAM ETYLENE (YEOCHEUN, KOREA)
KUKJAI INT.	CONTROL-GLOBE #300, 8", ETC.	1998 - 1999	26 PCS	UNION GAS (CHUNGJU, KOREA)
HYUNDAI M.I.	CONTROL VALVES GLOBE & BALL #150, #300, 6", ETC.	1998 - 1999	42 PCS	LG PETROCHEMICAL (YEOCHEUN, KOREA)
E.I.C. TECH.	CONTROL VALVES GLOBE & BALL 10K, 20K, 12", ETC.	1998 - 1999	69 PCS	POSCO OXYGEN-PLANT MRO (KWANGYANG, KOREA)

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
SHINHWA ENT	CONTROL VALVES GLOBE & BALL 10K, 20K, 12", ETC.	1998 - 1999	74 PCS	POSCO OXYGEN-PLANT MRO (POHANG, KOREA)
SAMSUNG IND.	CONTROL VALVES GLOBE & BALL 10K, 20K, 6", ETC.	1998 - 1999	106 PCS	KOREA STEEL CO., LTD. (CHANGWON, KOREA)
SAEKO CO., LTD.	CONTROL VALVES GLOBE #150, #300, 6", ETC.	1998 - 1999	18 PCS	SATEKO CO., LTD. (KOREA)
KOREA SPACE & CRAFT CO., LTD.	CONTROL VALVES SAFETY VALVES #150 ~ #800, 8", ETC.	2000	108 PCS	KOREA SPACE & CRAFT CO., LTD.
CPC	CONTROL VALVES GLOBE #150, #300, 8", ETC.	2000	12 PCS	UNION GAS (CHUNGJU, KOREA)

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
SEOHEUNG VALVE CONTROL	CONTROL VALVES GLOBE #150, #600, 10", ETC.	2000	8 PCS	
SHINHWA ENT	CONTROL VALVES GLOBE & BALL 10K, 20K, 12", ETC.	2000	24 PCS	POSCO OXGEN-PLANT (POHANG, KOREA)
HYUNDAI ENG'G & CONST. CO., LTD.	GATE, GLOBE, CHECK, BALL	2000	2,700 PCS	KOREA GAS CORP. INCHEON #11, #12 LNG-TERMINAL
IMEC	GATE, GLOBE, BALL	2000	68 PCS	KOREA GAS CORP. PYEONGTAEK MRO LNG-TERMINAL
KOREA GAS CORP.	GATE, GLOBE, BALL	2001	270 PCS	PILOT LNG-TANK (KOREA)

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
POSEC	CONTROL, PSV, GATE, GLOBE, CHECK	2001	99 PCS	POSCO LN2 BACK-UP TANK (POHANG, KOREA)
E.I.C. / POSEC	CONTROL, PSV, GATE, GLOBE, CHECK, NEEDLE	2001	92 PCS	POSCO LN2 BACK-UP TANK (KWANGYANG, KOREA)
DAELIM ENG'G & CONST. CO., LTD.	GLOBE, CHECK, BALL	2001	296 PCS	KOREA GAS CORP. INCHEON 450T/H PROCESS EXPANTION
DAELIM ENG'G & CONST. CO., LTD.	GLOBE, CHECK, BALL	2001	214 PCS	KOREA GAS CORP. TONGYONG LNG-T. #1 TANK
DAEWOO E & C CO., LTD.	GLOBE, CHECK, BALL	2001	966 PCS	KOREA GAS CORP. INCHEON LNG #2, #3 & PROCESS TANK

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
I.H.I (JAPAN)	CONTROL, PSV, GATE, GLOBE, CHECK, BALL	2001 - 2002	131 PCS	KOREA GAS CORP. TONGYONG LNG-T. #1 ~ #3
DAELIM INDUSTRY CO., LTD.	CONTROL, PSV, GATE, GLOBE, CHECK, NEEDLE, BALL	2003	1,400 PCS	KOREA GAS CORP. TONGYONG LNG-TERMINAL
DAELIM INDUSTRY CO., LTD.	GLOBE, CHECK, BALL	2003	9 PCS	KOREA GAS CORP. INCHEON LNG-TERMINAL
DAELIM INDUSTRY CO., LTD.	GATE, GLOBE, CHECK, BALL. 1/2"~4", #150~#900	2003 - 2004	1,200 PCS	POSCO KWANGYANG LNG-TERMINAL
I.H.I (JAPAN) / IMEC	SAFETY, GLOBE, BALL / GATE, GLOBE, NEEDLE, BALL	2003 - 2004	1,000 PCS	POSCO, KWANGYANG LNG-TERMINAL / ADVANCED MTL.

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
DAELIM ENG'G & CONST. CO., LTD.	GLOBE, CHECK, BALL	2003	9 PCS	KOREA GAS CORP. INCHEON LNG-TERMINAL
KOREA GAS CORP.	PILOT SAFETY VALVES	2004	48 PCS	KOREA GAS CORP. TONGYONG LNG-TERMINAL
POSCO	GATE, GLOBE, CHECK, DUAL, SAFETY VALVES	2004	127 PCS	POSCO POHANG #13 OXYGEN TANK
DAELIM ENG'G&DAEWOO CONST. CO., LTD. (AGENCY: SEOCHANG)	CONTROL, PSV, BALL, GLOBE, CHECK, GATE	2004	50 PCS	KOREA GAS CORP. TONGYONG LNG-TERMINAL
KOREA GAS CORP.	CONTROL, SAFETY, BALL. #150~#1500, 1" ~ 6"	2004 - 2005	126 PCS	KOREA GAS CORP. TONGYONG & PYEONGTAEK LNG-T.
CTCI-IHI (TAIWAN)	GLOBE, CHECK, NEEDLE, BUTTER BALL (3P&TOPENT.) #150~#1500, 1/2" ~ 36"	2005	126 PCS	CPC NOTHERN LNG-TERMINAL

CRYOGENIC GAS PLANTS

DOMESTIC & EXPORT

CUSTOMER	DESCRIPTION	YEAR	TOTAL QTY	PROJECT
SHANGHAI LNG COMPANY LTD.	<p>1 TOP ENTRY BALL VAVE, CRYOGENIC, 900#, 20" CF3/CF8</p> <p>2 TOP ENTRY BALL VAVE, LOW TEMP., 900#, 36" LCC</p>	2007	5 PCS	WEC SHANGHAI LNG TERMINAL PROJECT CHINA
CTCI-IHI	<p>GATE, GLOBE, SWING-CHECK, DUAL WAFER CHECK 150# AI-BRONZE 1/2" ~ 32"</p> <p>CRYOGENIC GLOBE, SWING CHECK 150# ~ 900# 2" ~ 8"</p>	2007	181 PCS	WEC SHANGHAI LNG TERMINAL PROJECT CHINA

MIDDEL EAST

KUWAIT

1996 - KNPC 7,300 PCS
1999 - SABIYA 19,000 PCS
2000 - AZ-ZOUR 2,500 PCS

SAUDI ARABIA

1997 - ARAMCO 10,000 PCS
1997 - JU DYMAN GAS 12,000 PCS
1997 - R.T REFINERY 500 PCS

BAHRAIN

1996 - BAPCO ILB 1,200 PCS

IRAN

2006~2007 - DAERIM AKDPE(AMIR KABIR PERTOCHEMICAL CO.,)
7,370 PCS- LDPE BANDAR IMAN PJT
GATE,GLOBE,BALL,ANGLE,CHECK,CRYOGENIC VALVES
CLASS: 150#~1500#
SIZE: 1/2" ~ 2"
2007 - PEIC - 3,467PCS
GATE,GLOBE,CHECK,NEEDLE,CRYOGENIC VALVES.
CLASS: #150~#1500
SIZE: 1/2" ~ 2"

NORTH AMERICA

U.S.A

1996 - WARREN ALLOY 2,000 PCS
1996 - GWC 30,000 PCS
2001 - OCI VALVE 1,500 PCS
1997 - PACIFIC VALVE 1,000 PCS
1997 - FOSTER 800 PCS
1999 - SHEEL OIL 400 PCS
2001 - CF FLUID CONT. 3,500 PCS
2001 - DELTAK 3,000 PCS

CANADA

1999 - JENKINS 2,500 PCS
2000 - ALSTOM BAYSIDE 3,700 PCS
2000 - MONTREAL VALVE 800 PCS

QATAR

2001 - NODCO 11,000 PCS

SOUTH AMERICA

MEXICO

2000 - PEMEX MEDERO 2500 PCS
2001 - PEMEX SALAMA. 1,100 PCS

DOMINICA

2001 - SANPEDRO 27 PCS

AUSTRALIA

2000 - CALLIDE #3 P.P 630 PCS

TAILAND

1996	- STAR&TPI	95,000 PCS
2000	- TLBO PJT	21,000 PCS
2002	- G1 PJT	3,000 PCS
2002	- RIO PJT	1,500 PCS
2003	- CPC& G-1	7,400 PCS
2004	- TOM PJT	3,000 PCS

INDONESIA

1996	- PTA PJT	600 PCS
1997	- GOP& ASAMERA	7,400 PCS
1997	- BALINK-PAPAN	12,000 PCS
1997	- MERAK WORKS	400 PCS
1999	- AMJ PJT	3,500 PCS
1999	- KLCC	300 PCS
2000	- KPI PJT	3,100 PCS
2004	- BALONGAN	6,000 PCS

PHILIPPINES

1998	- BATAAN POLY.	6,000 PCS
1997	- BALIK – PAPAN	12,000 PCS
2004	- PANDACAN	1,000 PCS

JAPAN

1996	- CHUNGOKU P.P	600 PCS
1998	- HIRACHI ENG	1,200 PCS
1998	- ONAGAWA N.P.P	3700 PCS
1998	- DP/MCEC CHIYODA	170 PCS
1999	- SHARQ CHIYODA	350 PCS
2000	- TOYO ENG	8,000 PCS
2001	- JGC CORP	127,000 PCS
2001	- MITSUBISHI H.I	35,000 PCS
2001	- HITACHI VALVE	15,000 PCS
2001	- MITSUI ENG	30,000 PCS
2002	- JGC & HITACHI	23,000 PCS
2003	- JGC, <u>TOSHIBA</u> , CHIYODA (NUCLEAR)	11,000 PCS

MALAYSIA

1997	- MMDP	1,100 PCS
1996	- P.F.K	1,600 PCS

PARKISTAN

2000	- PARCO PJT	30,000 PCS
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KAZAKSTAN

2,004	- ARR-PJT	1,000 PCS
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HONG KONG

1997	- CRPC SOUTH.	400 PCS
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SINGAPORE

1998	- TUAS SOUTH	400 PCS
2004	- SMAG-II	6,000 PCS

CHINA

1998	- CJSM	8,200 PCS
1998	- TSRC.M	1,700 PCS
1999	- CALTEX TIANJIN	3,000 PCS
1999	- CCUJ	15,000 PCS
2004	- LUOYANG	20 PCS

TAIWAN

1998	- FORMOSA H.I	9,800 PCS
1999	- CTCI	12,000 PCS
2002	- FENG& BIN PJT	3,000 PCS
2003	- FD & CB	740 PCS
2004	- PETRON-BATTAN	6 PCS

KOREA'S YOUNGGWANG NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
KEPCO YOUNGGWANG UNIT 3&4	GLOBE, Y-GLOBE, GATE, CHECK ½"-2", 2500LB, F316	1991-1993	180 PCS	ASME B31.3 NON-SAFETY
	BELLOWS SEALED Y-GLOBE 2", 600LB, F316		35 PCS	
	GLOBE, Y-GLOBE, GATE, CHECK ½"-2", 600LB, A105 & F22		7,570 PCS	
	GLOBE, Y-GLOBE, GATE, CHECK ½"-2", 600LB, F316/F316L		2,725 PCS	
	PACKLESS METAL DIAPHRAGM ¾"-2", 600LB, A105/F22/F316/F316L		162 PCS	
	SUPER ALLOY, ½"-2", 150-600LB HAST-C, UNS-N08020		140 PCS	
	GLOBE, Y-GLOBE, GATE, CHECK ½"-2", 1500LB, A105 & F22		1,530 PCS	
	GLOBE, Y-GLOBE, GATE, CHECK ½"-2", 1500LB, F316/F316L		270 PCS	
	PACKLESS METAL DIAPHRAGM ¾"-2", 1500LB, A105/F22/F316/F316L		30 PCS	

KOREA'S YOUNGGWANG KOREA'S YOUNGGWANG

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
YOUNGGWANG NUCLEAR POWER STATION UNIT 3&4	ELEC.-MOTOR OPERATED GATE 4", 600LB, A217-WC6	1996	3 PCS	ASME B31.3 NON-SAFETY
	GLOBE CONTROL VALVES 4", 600LB, A217-WC6		3 PCS	
	GLOBE, GATE 1/2"-2", 600-1500LB, SA105/316		124 PCS	ASME SEC.III SAFETY CLASS
	PACKLESS METAL DIAPHRAGM 3/4"-2", 1500LB, SA182-F316		14 PCS	
<u>KPS</u> YOUNGGWANG UNIT 3&4	ELEC.-MOTOR OPERA.GATE/GLOBE 2.5"-12", 600-1500LB, WCB/WC9/CF8M	1997	14 PCS	ASME B31.3 NON-SAFETY
	GLOBE CONTROL VALVES 3/4"-4", 300-600LB, WCB/CF8M		13 PCS	
	CHEVRON SEAL PACKING GATE 2 1/2"-12", 600-1500LB, WCB/WC9/CF8M		77 PCS	
	GLOBE, GATE 1/2"-2", 1500-2500LB, SA105/316/F316L		69 PCS	ASME SEC.III SAFETY CLASS
	PACKLESS METAL DIAPHRAGM 3/4"-2", 1500LB, SA182-F316L		36 PCS	

KOREA'S YOUNGGWANG NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
KOREA PLANT SERVICE & ENG YOUNGGWANG NUCLEAR POWER STATION UNIT 3&4	MOV CONTROL VALVES 3/4"-2", 600LB, SA182-F316	1998- 1999	6 PCS	ASME SEC.III SAFETY CLASS
	MOV, ELEC.-MOTOR OPER. GATE 3"-16", 150-900LB, WCB/WC6		18 PCS	
	CHEVRON SEAL PACKING GATE 3"-16", 150-900LB, SA-WCB/WC6		27 PCS	
	SWING CHECK 3"-24", 150-900LB, SA-WCB/WC6		12 PCS	
	GLOBE, CHECK 3/4"-2", 600LB, SA182-F316		12 PCS	
	PACKLESS METAL DIAPHRAGM 3/4"-2", 600LB, SA182-F316		6 PCS	
YOUNGGWANG NUCLEAR POWER STATION UNIT 3&4	ELEC.-MOTOR OPERATED GATE 3"-12", 300-900LB, A216-WCB	1998- 1999	18 PCS	ASME B31.3 NON-SAFETY
	GLOBE CONTROL VALVES 3"-12", 300-900LB, A216-WCB		17 PCS	
	CHEVRON SEAL PACKING GATE 2 1/2"-12", 300-900LB, A351-CF8M		64 PCS	

KOREA'S YOUNGGWANG NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
YOUNGGWANG NUCLEAR POWER STATION UNIT 3&4	SWING CHECK VALVES 3"-36", 150-900LB, A216-WCB	2000- 2006	17 PCS	ASME B31.3 NON-SAFETY
	MOV GATE/GLOBE VALVES 2"-24", 150-1500LB, WCB/WC6/F316		13 PCS	
	MOV BUTTERFLY VALVES 6"-10", 150LB, A216-WCB		12 PCS	
	MOV CONTROL VALVES 3", 300LB, A216-WCB		2 PCS	
	GLOBE CONTROL VALVES ¾"-12", 150-900LB, WCB/WC6/CF8M		27 PCS	
	PSV, SAFETY&RELIEF VALVES ¾"-4", 150-900LB, A216-WCB		23 PCS	
	PRV, PRESSURE REDUCING VALVES ½"-4", 150-900LB, WCB/F304		6 PCS	
	BELLOWS SEALED VALVES ½"-4", 150-1500LB, WCB/WC9/304/316		31 PCS	
	CHEVRON SEAL PACKING VALVES 2½"-16", 150-1500LB, WCB/WC9/CF8		28 PCS	

KOREA'S YOUNGGWANG NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
YOUNGGWANG NUCLEAR POWER STATION UNIT 3&4	PACKLESS METAL DIAPHRAGM V/V 3/4"-2", 600-1500LB, SA105/F11/F316	2000- 2006	65 PCS	ASME SEC.III SAFETY CLASS
	GATE, GLOBE, CHECK VALVES 1/2"-2", 600-1500LB, SA105/F11/304/316		258 PCS	
	CHEVRON SEAL PACKING VALVES 2 1/2"-24", 150-1500LB, SA-WCB/WC6		35 PCS	
	MOV GLOBE/Y-GLOBE/GATE 3/4"-2", 600-1500LB, SA105/F11/F316		6 PCS	
	MOV GATE/GLOBE 3"-12", 1500LB, SA217-WC6		8 PCS	
	MOV CONTROL VALVES 2"-4", 600-1500LB, SA-WC6/CF8M		5 PCS	
	BELLOWS SEALED VALVES 1/2"-4", 150-1500LB, WCB/WC9/304/316		31 PCS	
	CHEVRON SEAL PACKING VALVES 2 1/2"-16", 150-1500LB, WCB/WC9/CF8		28 PCS	

KOREA'S KMRR NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
KOREA ADVANCED ENERGY RESEARCH INS. NUCLEAR POWER PLANT	GLOBE, Y-GLOBE, GATE, CHECK 3/4"-2", 600LB, SA105/304/304L	1993- 2006	584 PCS	ASME SEC.III SAFETY CLASS
	BELLOWS SEALED VALVES 1/2"-2", 600LB, SA182-F304L		12 PCS	
	PACKLESS MAGNETIC ACTING V/V GATE, GLOBE, BALL 1"-3", 150-300LB, SA182-F316		36 PCS	
	CONTROL V/V (PILOT/GLOBE/3-WAY) 2"-3", 150-600LB, SA351-CF8		10 PCS	
	BALL VALVES 3/8"-2, 600LB, F304/304L		7 PCS	ASME B31.3 NON-SAFETY
	POV BALL VALVES 3/8"-3", 150-600LB, PP-L/F304/304L/CF8		22 PCS	
	CONTROL V/V (PILOT/GLOBE/3-WAY) 3", 150LB, A351-CF8		8 PCS	

KOREA'S WOLSEONG NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
<u>KEPCO</u> WOLSENG UNIT 2/3/4	NEEDLE & MANIFOLD VALVES 1/4"-3/8", 1500-2500LB, SA182-F316	1994- 2003	2,960 PCS	ASME SEC.III SAFETY CLASS
	GATE, CHECK VALVES 1/2"-2", 600LB, A105/F304/F304L		4,203 PCS	ASME B31.3 NON-SAFETY
KPS & WOLSENG NUCLEAR POWER STATION UNIT 2/3/4	MOV CONTROL VALVES 2", 1500LB, SA217-WC6		1 PCS	ASME SEC.III SAFETY CLASS
	MOV GATE VALVES 4", 1500LB, SA217-WC6		2 PCS	
	CHEVRON SEAL PACKING VALVES 3"-10", 600LB, SA216-WCB		8 PCS	
	CONTROL VALVES 1"-4", 150-300LB, A216-WCB		10 PCS	ASME B31.3 NON-SAFETY
	CHEVRON SEAL PACKING VALVES 3"-12", 600-1500LB, WC6/WC9		27 PCS	
	MOV CONTROL VALVES 3"-6", 600-1500LB, A217-WC6		4 PCS	
	PRV, PRESSURE REDUCING VALVES 3/4"-2", 150-1500LB, A105/F304		13 PCS	

KOREA'S GORI NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
KPS & GORI NUCLEAR POWER STATION UNIT 2/3/4	MOV CONTROL VALVES 1"-4", 150-600LB, SA-WCB/WC6	2003- 2006	18 PCS	ASME SEC.III SAFETY CLASS
	MOV GATE VALVES 3-12", 600-1500LB, SA217-WC6		15 PCS	
	CHEVRON SEAL PACKING VALVES 3"-24", 150-1500LB, SA-WCB/WC6/WC9		56 PCS	
	GLOBE, Y-GLOBE, GATE, CHECK 3/4"-2", 1500LB, SA182-F316		181 PCS	
	BELLOWS SEALED GLOBE VALVES 1"-8", 600LB, A105/316/WCB/VF8M		135 PCS	ASME B31.3 NON-SAFETY
	CHEVRON SEAL PACKING VALVES 3"-12", 600-1500LB, WC6/WC9		27 PCS	
	GLOBE CONTROL VALVES 1"-8", 150-1500LB, WCB/WC9		62 PCS	
	MOV GATE VALVES 3"-12", 600-1500LB, A217-WC9		9 PCS	

KOREA'S ULCHIN NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
KEPCO ULCHIN UNIT 3&4 (P207 & J240)	GLOBE, Y-GLOBE, GATE, CHECK 1/2"-2", 600-2500LB, SA105/316/316L	1994-1996	3,928 PCS	ASME SEC.III SAFETY CLASS
	NEEDLE GLOBE & 2/3-WAY MANIFOLD 3/8", 1500-2500LB, SA182-F316/316L		2,071 PCS	
	NEEDLE GLOBE & 2/3-WAY MANIFOLD 3/8"-1/2", 1500-2500LB, A182-F316/316L		11,186 PCS	ASME B31.3 NON-SAFETY
KPS & ULCHIN NUCLEAR POWER STATION UNIT 3&4	GLOBE CONTROL VALVES 3/4"-12", 150-900LB, WCB/WC6/CF8M	2001-2006	44 PCS	ASME B31.3 NON-SAFETY
	CHEVRON SEAL PACKING VALVES 4"-16", 300-600LB, WCB/WC9		62 PCS	
	BELLOWS SEALED GLOBE VALVES 2"-4", 600LB, A216-WCB		4 PCS	
	PSV, SAFETY&RELIEF VALVES 1/2"-4", 150-900LB, WCB/F304		12 PCS	
	PRV, PRESSURE REDUCING VALVES 1/2"-2", 300LB, A182-F304		2 PCS	
	PACKLESS METAL DIAPHRAGM 3/4"-2", 600-1500LB, SA105/F316		84 PCS	ASME SEC.III SAFETY CLASS

KOREA'S ULCHIN NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
KEPCO ULCHIN UNIT 5&6 (P20-A/B/C & J240)	GLOBE, Y-GLOBE, GATE, CHECK 1/2"-2", 600-2500LB, SA105/316/316L	2000-2003	4,096 PCS	ASME SEC.III SAFETY CLASS
	PACKLESS METAL DIAPHRAGM 3/4"-2", 600-1500LB, SA105/F316		8 PCS	
	NEEDLE GLOBE VALVES 3/8", 1500-2500LB, SA182-F316/316L/164-400		1,565 PCS	
	GLOBE, Y-GLOBE, GATE, CHECK 1/2"-2", 600-2500LB, A105/F22/316/316L	2000-2003	11,010 PCS	ASME B31.3 NON-SAFETY
	PACKLESS METAL DIAPHRAGM 3/4"-2", 600-1500LB, A105/F22/F316		1,148 PCS	
	NEEDLE GLOBE VALVES 3/8", 1500-2500LB, A182-F316/316L		1,200 PCS	
	QUICK CONNECTOR & COUPLER 1/2"-2", 1500-2500LB, F316		589 PCS	

KOREA'S SHINWOLSEONG & SHINGORI NUCLEAR POWER STATION

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
HYUNDAI HEAVY IND. (TURBINE) SHINWOLSEONG & SHINGORI UNIT 1&2	PRV, PRESSURE REDUCING (ACTIVE) 6", 1500LB, SA217-WC9	2007- 2008	4 PCS	ASME SEC.III SAFETY CLASS (QME-1)
	POV CONTROL VALVES 6", 1500LB, SA217-WC9		4 PCS	
	CHEVRON SEAL PACKING GATE 3"-24", 1500LB, SA217-WC9		34 PCS	
	BELLOWS SEALED GLOBE VALVES 1/2"-4", 600-1500LB, SA105/WCB/F316		28 PCS	
	QME-1 PATENT SIMULATION		2 SYSTEM	
	CV (VALVE COEFFICIENT VALUE) & EQ QUALIFICATION VERIFICATION		2 SYSTEM	
<u>KHNP</u> SHINWOLSEONG & SHINGORI UNIT 1&2 (P207C)	CHECK VALVES (ACTIVE VALVES) 1/2"-2", 600-2500LB, SA182-F316	2007- 2008	106 PCS	ASME SEC.III SAFETY CLASS
	CHECK VALVES, 1/2"-2", 600-2500LB, A105/F22/F316/N08825/N08020		474 PCS	ASME B31.3 NON-SAFETY
	QUICK CONNECTOR & COUPLER 1/2"-2", 1500-2500LB, A105/F316		1,098 PCS	

DIAGNOSTIC SYSTEM FOR MOV / ELECTRIC-MOTOR OPERATED VALVES

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
YOUNGGWANG NUCLEAR POWER STATION UNIT 1&2	MOV / ELECTRIC-MOTOR OPERATED VALVES GATE, GLOBE, BUTTERFLY	2001- 2002	115 PCS	ASME SEC.III SAFETY CLASS
ULCHIN NUCLEAR POWER STATION UNIT 3&4	MOV / ELECTRIC-MOTOR OPERATED VALVES GATE, GLOBE, BUTTERFLY	2002- 2005	164 PCS	
YOUNGGWANG NUCLEAR POWER STATION UNIT 1&2	MOV / ELECTRIC-MOTOR OPERATED VALVES GATE, GLOBE, BUTTERFLY	2002- 2003	58 PCS	

JAPAN'S NUCLEAR POWER STATION				EXPORT
PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
ONAGAWA UNIT 0/1/2/3	GLOBE, GATE, CHECK VALVES 1/2"-2", 600-2500LB, A105/F22/F316	1998- 1999	660 PCS	ASME B31.3 NON-SAFETY
	BELLOWS SEALED Y-GLOBE 1/2"-2", 600-900LB, A105/F11/F316		88 PCS	
	MOV GATE VALVES 1/2"-3", 600LB, A182-F22		24 PCS	
	MOV BLOWDOWN VALVES 1/2"-3", 1500-2500LB, A182-F22		8 PCS	
	CHEVRON SEAL PACKING VALVES 2 1/2"-24", 150-2500LB, WCB/WC9		28 PCS	
HIGASHI UNIT 1&2	BELLOWS SEALED VALVES 1/2"-2", 600-1500LB, A105/F22/F316	1998- 1999	694 PCS	ASME B31.3 NON-SAFETY
	BELLOWS SEALED VALVES 1/2"-2", 600-1500LB, WCB/WC9/CF8M		108 PCS	
	MOV BELLOWS SEALED VALVES 2 1/2"-4", 300LB, WC9/CF8M		15 PCS	

TAIWAN'S NUCLEAR POWER STATION

EXPORT

PROJECT	DESCRIPTION	YEAR	TOTAL QTY	SAFETY CLASS
TPC LUNG MEN UNIT 1&2	CHEVRON SEAL PACKING VALVES GATE/GLOBE 6"-30", 150-1500LB, WCB/WC9	2006	134 PCS	ASME B31.3 NON-SAFETY
	BELLOWS SEALED VALVES 1/2"-2", 600-1500LB, A105/F22/F316L		922 PCS	
	BELLOWS SEALED VALVES 1 1/2"-4", 150-1500LB, WCB/WC9/CF3M		94 PCS	

ONLY SEVERE DUTY SERVICE

KOREA'S POWER PLANT

- TAEAN POWER PLANT UNIT 3,4#
 - GENERAL SERVICE CONTROL VALVES.
- SEOINCHON POWER PLANT UNIT 1~ 8
 - 4" 1500# B.F.P RECIRCULATION VALVES.
- ULSAN POWER PLANT
 - 2" 1500# B.F.P RECIRCULATION VALVES.
- YONGNAM POWER PLANT
 - 4" 2500# B.F.P RECIRCULATION VALVES.
- YONGWOL POWER PLANT
 - 2" 2500# SPRAY WATER CONTROL VALVES.
- YEOSOO POWER PLANT
 - 4" 2500# B.F.P RECIRCULATION VALVES.
- TAEJUN POWER PLANT
 - 4" 1500# FEEDWATER CONTROL VALVES.
- SANDAN POWER PLANT
 - 10" *16" 2500# TURBINE BY-PASS CONTROL VALVES.
- SAMCHONPO POWER PLANT
 - 2" 2500# SHOOTBLOW CONTROL VALVE.
- KWANGYANG POSCO POWER PLANT UNIT
 - 4" 1500# FEEDWATER CONTROL VALVES.

ONLY SEVERE DUTY SERVICE

FOREIGN POWER PLANTS

DOMINICA

- SANPEDRO HRSG POWER PLANT 3 UNIT
 - 4" 1500# FEEDWATER CONTROL VLAVE ETC. (27 PCS)

MEXICO

- AL TAWHEELAH HRSG POWER PLANT 3 UNIT
 - 8" 2500# HP DRUM FEEDWATER CONTROL VLAVE ETC. (158 PCS)

ISRAEL

- GEZER HAIPA POWER PLANT 3 UNIT
 - 8" 1500# FEEDWATER CONTROL VLAVE ETC. (18 PCS)

JAPAN

- MITUBISHI H.I INDUSTRIAL POWER PLANT
 - 4" 1500# STEAM CONTROL VLAVE ETC. (400 PCS)
- KAWASAKI H.I INDUSTRIAL POWER PLANT
 - 4" 1500# STEAM CONTROL VLAVE ETC. (100 PCS)

SPAIN

- GIBRALTA HRSG POWER PLANT 2 UNIT
 - 8" 2500# FEEDWATER CONTROL VLAVE ETC. (12 PCS)
- AMOREBIATA HRSG POWER PLANT 2 UNIT
 - 4" 2500# SPRAY WATER CONTROL VLAVE ETC. (48 PCS)
- PALOS HRSG POWER PLANT 3 UNIT
 - 8" 2500# FEEDWATER CONTROL VLAVE ETC. (18 PCS)

ONLY KOREA'S LNG-TERMINAL GAS PLANTS

- POSCO OXYGEN PLANT AND KWANGYANG LNG-TERMINAL
 - GLOBE CONTROL VALVE FOR CRYOGENIC SERVICE
 - SAFETY VALVES FOR CRYOGENIC SERVICE
- UNION GAS (PREX AIR KOREA)
 - GLOBE CONTROL VALVE FOR CRYOGENIC SERVICE
- KOGAS LNG PLANT (TONG YONG, PYEONGTAEK, INCHEON)
 - GLOBE CONTROL VALVE FOR CRYOGENIC SERVICE
 - SAFETY VALVES FOR CRYOGENIC SERVICE
- KOREA AEROSPACE RESEARCH INSTITUTE(KARI)
 - GLOBE CONTROL VALVE FOR ROCKET(LOX)
 - BALL CONTROL VALVE FOR ROCKET(LOX)
 - SAFETY VALVES FOR ROCKET(LOX)

WORLD WIDE A/S NETWORK

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QATAR	AL-SUWAIDI TRADING	PO BOX 25762 DOHA, QATAR	Tel)977-442-2670 Fax)977-442-7022	www.al-suwaiditrading.com qstd@qatar.net.qa
France	Vanatome	7,Rue,Vidal 07100 Annonay- France	Tel)33-475-69-48-12 Fax)33-475-69-48-12	www.vanatome.com vanatome@wanadoo.fr
Germany	Klaus Union	21244 Buchholz Bremer Strasse 53 Armaturen International	Tel)49-04181-3800-0 Fax)49-04181-3800-19	bornheim@klaus-union-int.de
Spain	Centork Valve Control	P.I.110, Txatxamendi, 24-26 LEZO E-20100 SPAIN	Tel)+34-943-31-61-37 Fax)+34-943-22-36-57	plazcano@centork.com
U.S.A	Kinka Kikai International	1305 Turn Cliff Drive Birmingham, Al,35235	Tel)1-205-661-9208 Fax)1-205-661-9209	kinkavalvebham@aol.com
Indonesia	P.T mitra wiraperdana	Sentra Niaga Puri Indah Blok T2 No.21 Puri Indah,Jakarta 11610- Indonesia	Tel)62-21-581-4041 Fax)62-21-581-4042	mitracom@rad.net.id
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Japan	RYU corporation (S&S OSAKA OFFICE)	5F. Samuti Nishinakajima Bldg. 10-12 Nishinakajima 3-chome, Yodogawa-Ku, Osaka 532-0011	Tel)81-6-6305-2708 Fax)81-6-6305-1330	s-akio@xvb.biglobe.ne.jp
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Thank You Very Much !

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