

Move Forward To Be The World's Best

ISO 9001

CE



DNV

*Caring for
People and the Environment
With KUKA's Quality Products*

KUKA Ball Valve
Pre-Qualification Data Book
Ver. 3.0



When it comes to safety, reliable performance is vital. Human error may be inevitable. But when gas and oil are involved, damage control is indispensable. That's why we at KUKA put all-out efforts into high performance ball valve innovations. We deliver the high quality valves our customers expect. Keep your company's competitive edge sharp with our on-the dot product delivery, prompt customer service, and unrivaled quality. KUKA solutions



exceed your expectations in every way. Experience the KUKA advantage. And you will know why our quality is touted worldwide. When it comes to valves in gas and oil field, KUKA is all you need.

Standard Specification of KUKA

Uni-Body | Split Body | Full Port | Reduced Port | Floating Ball | Trunnion Mounted Ball
Fire Safe Design | NACE Standard MR0175 Compliant | Anti-Static Device | Cavity Relieving
Seats | Pressure Balance Hole in Ball | ISO5211 Mounting Pad | Pad-lockable | Position Stop

Company History

- Aug. 1980** : **Established KumKang Valve Company.**
- Dec. 1980 : Installed a machining shop.
- Nov. 1981 : Opened the Seoul Sales Branch.
- Oct. 1983 : Firstly exported ball valves to Germany.
- Aug. 1985 : Built up a foundry shop.
- Sep. 1985 : Designated to prospective Small & Medium Enterprises.
: (Korea Institute of Machinery & Metal)
- Aug. 1990** : **Acquired DIN 50049 3.1 B/EN 10204.3.1B Certificate**
issued by TUV Germany
- Dec. 1995 : Acquired API Authentication No.6D-0221
- May. 1996 : Acquired ISO 9001 issued by Canada QCB No.96-254
- July 1996** : **Established the Subsidiary Company KUKA Valve Company Inc.**
in LA, U.S.A.
- April 1999 : Registered as a ball valve supplier of Korea Gas Corporation.
- Sep. 1999 : KUKA Valve Company Inc. moved to Houston Texas, USA.
- Dec. 2000** : **Extended facilities to manufacture ball valves of a big size.**
- July 2001 : Obtained FireSafe Test Certificates as per API 6FA
- Nov. 2001 : Acquired "CE" mark for "PED"
issued by TUV (No.01 202 ROK / Q 01 0003)
- Nov. 2003 : Acquired DET NORSKE VERITAS Approval
Approval of Manufacturer Certificate (Steel Casting)
- Jun. 2004** : **Established the Subsidiary Company KUKA PTE. LTD. in Singapore**
- July. 2005 : Acquired BUREAU VERITAS Approval
Approval of Manufacturer Certificate (Steel Casting)
- Apr. 2006** : **Opened 2nd Factory (6,000 m²)**

Main Products & Range

Product	Type	Material	End Connection	Pressure	Size
Ball Valve		Casting		Class 150	1/2" ~ 36"
Soft Metal		WCB LCB, LCC, CF8M, CF8 CF3M, CG8M Duplex, Super Duplex, Ni-Al-Bronze Alloy, Titanium, Etc.	Flanged Ends,	Class 300	1/2" ~ 36"
Cryogenic Service, Low Tem. Service,	Floating, Trunnion		Hub Ends	Class 600	1/2" ~ 36"
	Uni-Body, Split-Body	Forging		Class 900	3/4" ~ 24"
Manual Operated, Actuator Automated,		A105, LF1, LF2 F316, F316L F51, F53 B381-Titanium Etc.	Special Ends	Class 1500	3/4" ~ 24"
				Class 2500	1/2" ~ 14"

Note : Other material is available upon request.

Capacity

Casting Capacity	350 tons / month	US\$3.5Million / month
Cast Valves Assembly Capacity	350 tons / month	US\$3.5Million / month
Forged Valves Assembly Capacity	250 tons / month	US\$2.5Million / month
Assembly Capacity	10,000 Pcs / KUKA STD 150#-4" / month	US\$6.0Million / month

Introduction (1/2)

In the most demanding valve applications in today's world market, KUKA is manufacturing high pressure valves in class 900#, 1500#, and 2500#, high quality metal seated valves, and cryogenic valves.

In addition, We also offer a wide range of materials such as Ni-Al-Bz, Monel, Inconel, Duplex, Super Duplex, and Alloy Materials.

Due to the price is the most trigger in valve market, KUKA Valve is considered to have manufactured the competitive valve without sacrificing quality.

Advanced Manufacturing Facilities and Production Technology.

KUKA's ball valves, which are manufactured with our advanced manufacturing facilities and experience, are produced in a consistent operation line from casting to assembly, and only products that have passed our severe tests are supplied to users.

In-House Casting Systems

Molten Steel Control

We use raw material strictly controlled in quality and chemical composition. The chemical composition of the molten steel is checked with a vacuum-emission spectrometer at every charge before pouring. The pouring temperature suitable for the quality of each material is rigidly controlled with an auto thermometer.

Moulding line

Using moulding sand and coated sand of strictly controlled quality, we make molds free from any break down of shape or deformation, which enables us to manufacture products of accurate dimension and good surface condition.

Heat-Treatment Control

Stainless steel goes through solution heat-treatment at 1,070°C-1,100°C, and carbon steel is annealed at 880°C-900°C and tempered at 650°C-670°C.

By checking and adjusting the thermocouple, the pressure gauge regularly, and by equipment control, we keep the deflection of the inside temperature of the furnace below +5°C so that heat-treatment is conducted without variation.

Advanced Machining Systems

Processing Line

The body of KUKA valve is manufactured in a consistent line production from the CNC line, where excellent programmers are at work, to the drill line, which is composed of special purpose machines designed according to each valve size, to the assembly line. The production technology accumulated at each line enables us to always produce interchangeable products.

Introduction (2/2)

Ball Machining Technique

The Ball machine and ball super finishing machine, which were designed and developed by KUKA, are producing balls that have a sphericity of $\pm 0.01\text{mm}$ and a 4RMS surface finish. Our ball valves will prove superior quality in low torque and no leakage when metal to metal operation.

KUKA's quality guarantee system is established according to BS5750 Part 1 : 1992 (ISO 9001:1992), and we guarantee the best quality by observing procedures stringently at every stage.

Strict Quality Control checks at Every stage of Process.

We have been making an enormous investment in testing equipments and the inspection process, and no valve goes to the next stage of the production process without passing the inspection standard of each process. We conduct a rigorous test of the Quality and chemical composition of the raw material for melting. Also, samples of molten steel are taken and subjected to chemical composition analyses and mechanical property tests, and in the heat-treatment process, the quality of each material, heat treatment temperature, holding time, and cooling time are strictly controlled. Dimensional and visual inspection are rigidly conducted on every component of our valves, and at the final stage of the assembly process, our valves are subjected to 100% pressure tests to guarantee users' full satisfaction with our product performance under actual usage conditions. In addition, other valve performance tests are also conducted in our own factory, such as durability tests, C/V tests, Cryogenic tests, and fire-safe tests.

Statistical Process Control (SPC)

KUKA Quality Assurance and Control procedures make sure in advance that No Defects occur in any stage of the manufacturing process.

Notes of Certificates

KUKA was given approval by TUV to issue certificates in its own casting foundry according to DIN 50049 3.1 B / EN 10204 3.1B Specification, and has acquired fire-safe approval to test valve performance in case of fire according to API 607 4th Edition(1994) and BS 6755 part 2 (1987) from SOBA Test Institute B.V. , LLOYD and British Standard Institute respectively.

KUKA is also granted the certificate of authority to use official Monogram by American Petroleum Institute as API 6D-0221(1995) and honorably approved ISO 9001 certificate for the successful implementation of a quality management system, registered by Quality Certification Bureau as a NO. 96-254(1996).

To participate in the worldwide quality valve market, KUKA has become a one of the leading valve manufacturers in the world.

Due to strong requirement of quality control system in Europe market, KUKA is granted the certificates of CE Marking (NO. 01 202 ROK / Q-01 0003) by TUV Germany for PED control.

Manufacturing Facilities (1/2)

Section	Process	Equipment	Specification	Q'ty	Remarks
Casting	Melting	High Frequency Induction Furnace	350KW (500 kg)	1 set	Inductotherm, USA
		High Frequency Induction Furnace	350KW (350 kg)	1 set	Inductotherm, USA
		High Frequency Induction Furnace	350KW (250 kg)	1 set	Inductotherm, USA
		High Frequency Induction Furnace	350KW (250 kg)	1 set	Inductotherm, USA
	Molding	Jolt Molding M/C	650 x 750 x 200	2	ShinDong,Korea
		Jolt Molding M/C	800 x 900 x 250	2	ShinDong,Korea
		Sand Mill	1 ton / charge	1	ShinDong,Korea
		Sand Mixer	250 kg / charge	2	ShinDong,Korea
		Shell Molding M/C	FCD 650	1	Taiwan
		Shell Core Blowing M/C	FTR 440	1	Taiwan
	Shot-Blasting	Gabger Type Shotblast	φ1200 x 1,500H	3	ShinDong,Korea
		Apron Type Shotblast	500 kg / charge	2	ShinDong,Korea
		Cutting M/C	φ300 x 5HP	4	Kyae Yang, Korea
	Welding	Electric Welder	5-75 KW	4	Il-Yang, Korea
		D/C Gouging M/C	1200A	1	Korea Electric Co.
	Heat Treatment	Heat Treatment Jet Type Washing M/ (Conveyor Type)	φ800 x 1200 H	1	Young Shin,Korea
		Heat Treatment Jet Type Washing M/ (Conveyor Type)	5PC-101-S	1	Min Chang, Korea
	Cleaning	Pickling	200 kg / charge	1	Korea
	Machining	Machining M/C	CNC Lathe	φ650 x 1500	1
CNC Lathe			φ310 x 1100	2	Doosan, Korea
CNC Lathe			φ304 x 800	1	Daewoo,Korea
CNC Lathe			φ254 x 800	1	Daewoo,Korea
Lathe			φ682 x 1000	6	HanKooK, Korea
Milling M/C			3000 x 700 x 700	1	Doosan, Korea
Twin Spindle & 4 Axes				1	
Machining Center			ACE-V 500	2	Daewoo,Korea
Ball M/C		Ball M/C	Large/Small Size	9	HanKooK, Korea
		Ball Cutter M/C	Middle Size	1	Tong-il, Korea
		Honing M/C	φ460 x 1060	2	Oriental, Japan
		Polishing M/C	φ28 x150	1	KukDong,Korea
Drill & Tap M/C		Drill & Tapping M/C	Max.PT2"	1	ShiDae, Korea
		Multi-Drilling M/C	φ800	2	YuSung,Korea
		Multi-Drilling M/C	φ600	1	YuSung,Korea
		Radial	φ200 x 100	1	Doosan, Korea
		Up-Right Drill M/C	540 M/M	6	NamBuk,Korea
		Threading M/C	φ500	4	Sungil, Korea
		Band Sawing M/C	250 x 180	1	Won Ding,Korea

Manufacturing Facilities (2/2)

Section	Process	Equipment	Specification	Q'ty	Remarks
OffShore Painting	Surface Preparation	Sand Blast Shop	Better Painting Quality	1Shop	Korea
	Painting / Dry	Temp. Controllable Paint & Dry Shop	Better Painting Quality	1Shop	Korea
High Pressure Gas Test Bunker	High Pressure N2 Gas Test	Concrete+Steel Structure	To meet TOTAL SP-142	1Shop	Safety Certified

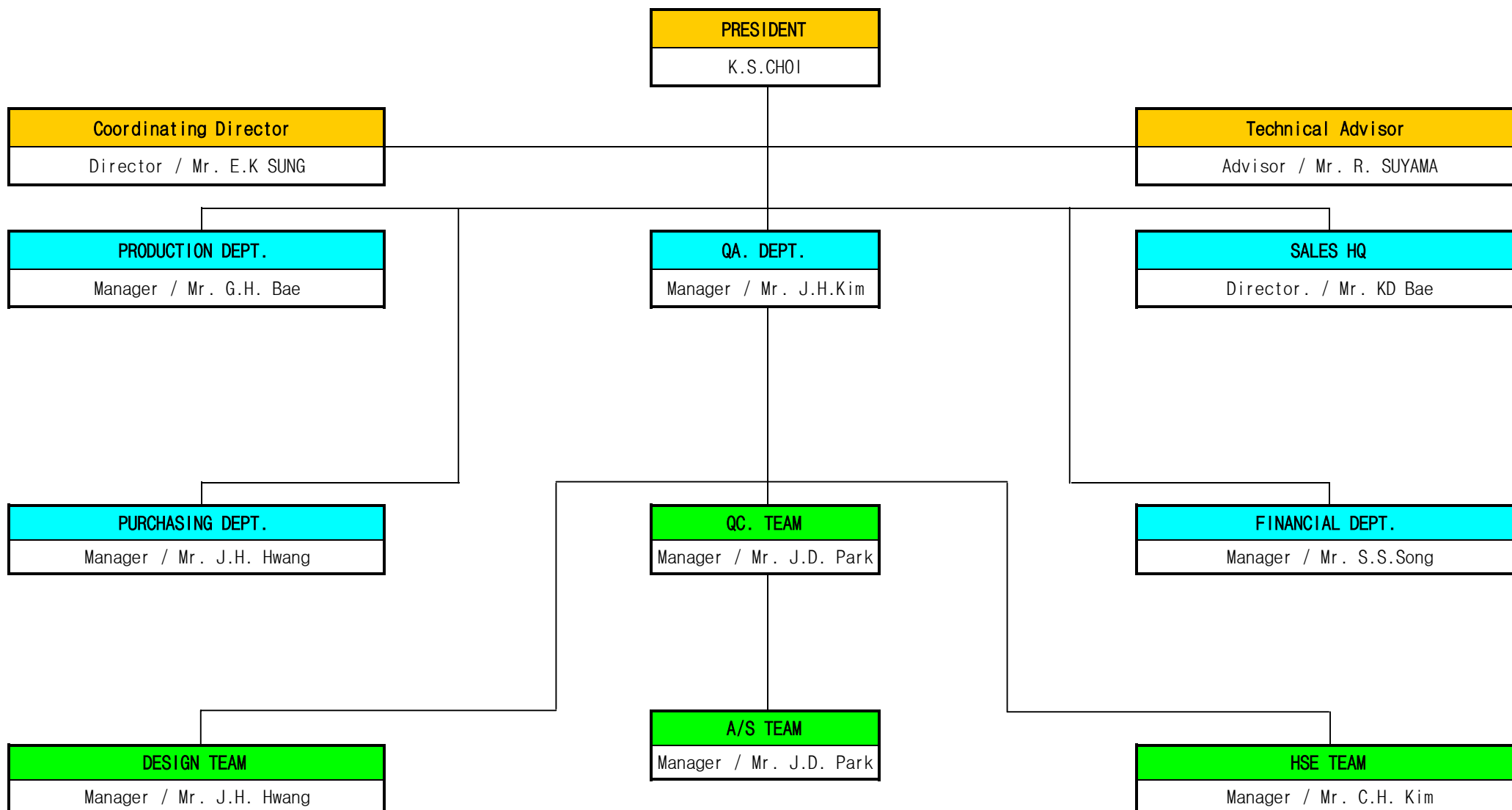
Special Inspection / Test Facilities

Section	Equipment	Specification	Q'ty	Remarks
P.M.I (portable)	P.M.I Analyzer	XLt 898QW (X-Ray Tube)	1	NITON, U.S.A.
Cryogenic Test	Cyrogenic Test Shop	Cryogenic Test Low Temp. Test	2	KUKA
Thermal Cycle High&Low Temp.	High Temp.	High Temp. Thermal Cycle	1	KUKA
Fugitive Emissions Test	Helium Detactor & Mass Spectorometer	Varian 979 Helium	1	Varian, U.S.A
Gas Test	Gas (N2,He) Test Shop	Gas Tester	2	KUKA
Test Bunker	Test Bunker for High Pressure Gas Test	Concrete+Steel Structure	1	Safety Certified
Cycle Test	Cycle Test M/C	Max.180°C / Cycle	2	KUKA
Fire Safe Test	Fire Safe Testing M/C	API / BS	1	KUKA

Normal Inspection / Test Facilities

Section	Equipment	Specification	Q'ty	Remarks
Chemical Composition	Spectrometer	23 channels	1	Hilger, England
Mechanical Property Test	Universal Tester	30,000 kgf	1	KyungDo, Korea
	Brinell Hardness Tester	30 kgf	1	KyungDo, Korea
	Impact Tester	50kgf-m	1	KyungDo, Korea
	Sphericity Tester		1	Taylor Hobson, UK
	Roughness Tester	0.0001mm	1	Taylor Hobson, UK
Dimensional Measuring	2D Dimensional Measuring Instrument	2D	2	
Pressure Test (Shell/Seat)	Air Testing M/C	6kgf/cm ²	2	Korea
	Air Testing M/C	6kgf/cm ²	1	KUKA
	Hydraulic Testing M/C	250 kgf/cm ²	1	KUKA
	Hydraulic Testing M/C	250 kgf/cm ²	1	Friedrichs, Germany
	Hydraulic Testing M/C	250 kgf/cm ²	1	Moah, Korea
Self Relieving	Cavity Relieving Tester		1	KyungNam, Korea

Project Organization



The Worldwide Network of KUKA

Dear Sir

We, Kumkang valve Mfg.Co.,Ltd. Are pleased to certify our brand of "KUKA"'s WORLDWIDE NETWORKING hereunder.

Since KUKA Valves vigining in the world vale market starting in 1983,
We have accumulated most advanced and stable quality ball vave manufacturing experiences and technology.

We have enjoyed many years of support from our valuable customers throughout the world.

We are confident in introduccing KUKA valve to our new customers.

KUKA Subsidiaries, Distributors,

-always keep KUKA ball valves as stock.

-are very much aware of technical & mechanical of KUKA ball valve.

-have well organized A/S team for emergency request from customers.

-have well equiped testing and repair shop for quick reaction.

-will take KUKA's place in case of emerency repair or maintanance.

-will gurantee the KUKA ball valve with own experience with major engineering companies.

1) KUKA VALVE CO. INC.- Subsidiary Company in U.S.A

4324 Eastpark Drive, Houston, Texas 77028, U.S.A.

Tel : 1-713-690-9661 Fax : 1-713-690-9240

2) KUKA PTE. LTD - Subsidiary Company in Singapore

8 Pandan Crescent, #01-03 UE Tech Park, Singapore 128466

Tel : 65-6227-2024 Fax : 65-6227-2544

3) KUKA ME (Middle East) FZE. - Subsidiary Company in Dubai, U.A.E

Jebel Ali Free Zone

4) PRISM FLOW PRODUCTS INC. - Distributor in Canada

5320, Roper Road, Edmonton, Alberta T6B 3E9

Tel : 1-780-450-9444 Fax : 1-780-450-3848

5) SAUDI PAN GULF - Distributor in Kingdom of Saudiarabia

P.O Box 2473 Al Khobar 31952 Saudi Arabia

Tel:966-3867-0444 Fax:966-3896-2497



Head Quarters, Manufacturing & International Sales

#209-10 Jang-Dong, Dalseo-Gu, Daegu, Korea

Tel : 82-53-581-4500 Fax : 82-53-581-4505

kuka@kuka.co.kr

kost@kuka.co.kr

SEOUL OFFICE

Room 1601, Poong Lim VIP TEL, 404 GongDuk-Dong, Mapo-Gu, Seoul, Korea

Tel : 82-2-702-4600 Fax : 80-2-802-4600

kdst@kuka.co.kr

KUKA VALVE CO., INC.

4324 East Park, Houston, Texas 77028 , U.S.A.

TEL : 1-713-690-9661 Fax : 1-713-690-9240

jkwon@kuka.co.kr

KUKA PTE., LTD.

8 Pandan Crescent, #01-03 UE Tech Park, Singapore 128466

Tel : 65-6227-2024 Fax : 65-6227-2544

jhshin@kuka.co.kr

KUKA ME (Middle East) FZE.

Jebel Ali Free Zone, Dubai, U.A.E

kukame@kuka.co.kr

Middle East

1) Saudi Pan Gulf - Distributor in Kingdom of Saudi Arabia

P.O Box 2473 Al Khobar 31952 Saudi Arabia
Tel:966-3867-0444 Fax:966-3896-2497

2) Al-Fahdan T&C - Partner in Kuwait

P.O.Box No. 26142 13122 Safat, Kuwait
Tel : 965-4845171 Fax : 965-4841776

3) Delta Doha Corporation - Partner in Qatar

P.O. Box 4926 Doha, Qatar
Tel : 974-478-4880 Fax : 974-478-4881

4) Gerab National Enterprises - Partner in U.A.E

P.O.Box 17719, Jebel Ali, U.A.E
Tel : 971-4-883-8338 Fax : 971-4-883-9005

African

1) Botro Marine & Oil Services Ltd - Partner in Nigeria

Plot PC 14B, Ahmed Onibudo St., NCWC House 1st Fl., Victoria Island, Lagos, Nigeira
Tel:234-1-270-5415 Fax:234-1-270-5416

2) STYM Engineering Limited - Partner in Nigeria

No. 3a Isaac-Boro Street, Old G.R.A, Port Harcourt, Rivers State, Nigeria
Tel:234-84-482-321 Fax:234-84-238-760

3) Stanob Energy Services - Partner in Nigeria

(Technosuites) Block P, 12 Tinubu Square (2nd Floor), Lagos, Nigeria
Tel:234-802-370-7570 Fax:234-1545-8805

4) DAEWOO International Tripoli - Partner in Libya

Al-Henshiri St. Mizran Rd., Tripoli - Libya
Tel:021-334-3519 Fax:021-334-3519

Asia

1) Petroman Marketing (D) Pvt. Ltd - Partner in India

424, Som Datt Chambers-11, 9. Bhikaiji Cama Place, R.K.Puram, New Delhi - 110 066 (India)
Tel:91-11-2619-2867 Fax:91-11-2618-1486

2) SYFI - Partner in India

130 Sahid Dinesh Gupta Road, Behala, Jadu-Colony, Kolkata-700 034, India,
Tel:91-33-2468-8883 Fax:91-33-2468-8883

3) DCV-Japan Co.,Ltd. - Partner in Japan

Hongo Segawa B/D. 35-10, 2-Chome, Hongo, Bunkyo-Ku, Tokyo Japan 113-0033
Tel:81-3-5842-8668 Fax:81-3-5842-8669

4) VALSER Engineering and Service Sdn.Bhd. - Partner in Malaysia

No. 37, Jalan Kampar, Off Jalan Tun Razak, 50400, Kuala Lumpur, Malaysia
Tel:603-4041-5001 Fax:603-4041-4001

Europe

1) Ubel & Ventil B.V. - Partner in The Netherlands

Coenecoop 19 2741 PG Waddinxveen, Netherlands
Tel:31-(0)182-64-2222 Fax:31-(0)182-64-2233

2) Cobepex - Partner in Belgium

Rue Eois De Sclessin, 17, B-4031 Liege, Belgium
Tel:32-4-229-7841 Fax:32-4-229-3829

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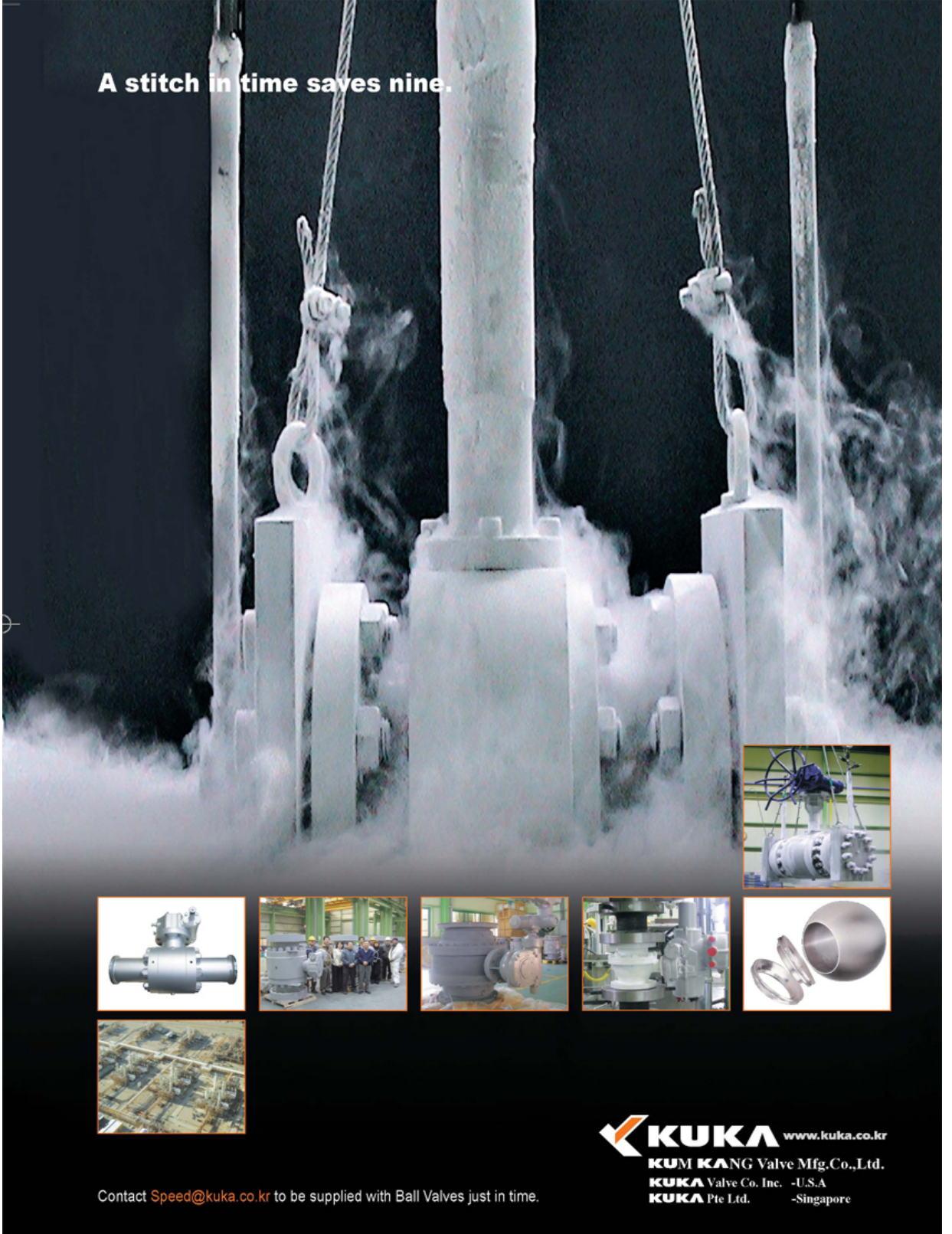
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PART I - Company Status

A stitch in time saves nine.



To All Customer

Dear sir,

We hope that your company and you have best wishes and sprits, then really appreciated that your tremendous interest and wonderful chance your giving us for this project.

Since our founding in 1980, We have invested heavily in "state of the art" equipment for design and manufacture.

By marrying these two facts via computer technology,

We have attained absolute assurance of impeccable quality.

Our "in-house" foundary & manufacturing plant is continuously guided by a rigorous quality assurance program and statistical process control procedures.


Our engineering department is constantly striving to achieve even greater goals of product performance by implementation of emerging materials in plastics,elastomers, coatings and metallurgy.

As you review this Pre-Qualification Book, You will be given a glimpse of our facilities, our personnel, our achievements to date, and product line.

We are confident of our product and urge that you provide us the opprotunity to present KUKA Quality Ball Valve.

Company Profile

Company Name	KumKang Valve Mfg. Co., Ltd.
---------------------	-------------------------------------

Registration No.	503-81-13094	
President	Mr. Kyung-Sik Choi	
Established	Aug. 11th, 1980	
Capital	US\$1Million	
Number of Employee	96	
Land (1st Factory)	7,009m ²	
Building Land (1st Factory)	6,693m ²	
Land (2nd Factory)	6,000m ²	
Building Land (2nd Factory)	5,000m ²	
Main Product	Industrial Ball Valve & Equipment	

Head Quarter and Factory	With 3Million USD of Stock Valves
Address 209-10, Jang-Dong, Dalseo-Gu, Daegu, Korea	
Tel : 81-53-581-4500 Fax : 81-53-581-4505	
Contact Point : Sales HeadQuarter kuka@kuka.co.kr kost@kuka.co.kr	

KUKA Valve Co., Inc. (Subsidiary Company in U.S.A)	With 5Million USD of Stock Valves
Address 4324 East Park, Houston, Texas 77028, U.S.A.	
Tel : 1-713-690-9661 Fax : 1-713-690-9240	
Contact Point : Mr. J.Y. Kwon jykwon@kuka.co.kr	

KUKA PTE. LTD. (Subsidiary in Singapore)	With 3Million USD of Stock Valves
Address Pandan Crescent, #01-03 UE Tech Park, Singapore 128466	
Tel : 65-6227-2024 Fax : 65-6227-2544	
Contact Point : Mr. J.H. Shin jhshin@kuka.co.kr	

KUKA ME (Middle East) FZE. (Subsidiary in Dubai U.A.E.)	With 5Million USD of Stock Valves
Address Jebel Ali Free Zone	
Tel : Fax :	
Contact Point : Mr. Challen Ge kukame@kuka.co.kr	