

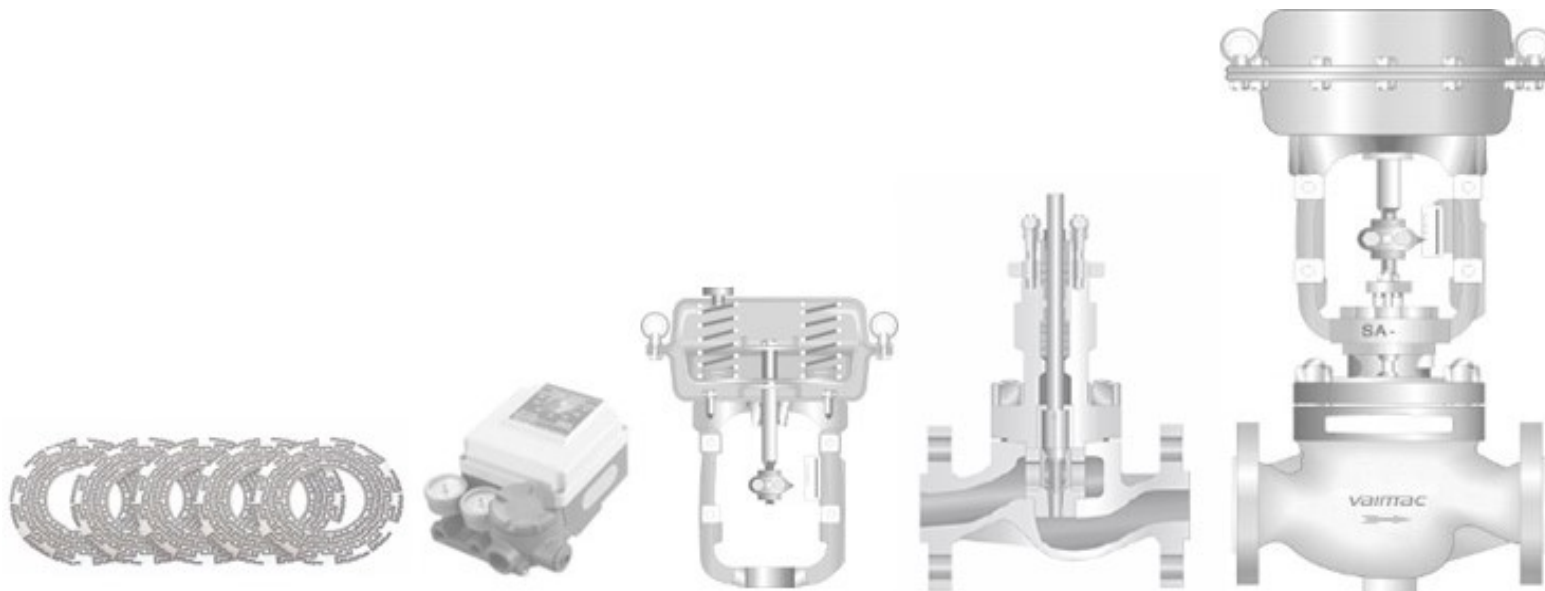
SEOJEON Valmac

Control & On-Off Valve Manufacturer, Since 1981

Control Valves
Engineering Service
Research & Development
www.valmacs.com



Pre-Qualification Statement



We will continuously challenge with innovative thinking and technology.

SEOJEON VALMAC CO., LTD

Head Off & Factory : #46 Daegotbuk-ro 158 Gil, Daegot-myeon, Gimpo-si, Korea

Tel + 82 31 981 3121. Fax +82 31 981 0365

China Branch : Baiqizen, Feng Cheng City, Liaoning Province, P.R China

Tel + 86 415 818 2571. Fax: + 86 415 818 257

Homepage : www.valmac.co.kr



K347/M10


1. Contents


We will continuously challenge with innovative thinking and technology.

1. Introduction
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1. Introduction

SEOJEON VALMAC Co., Ltd () was established in 1981 and engaged in supplying its quality products of **Control & Special Valves** for various industries such as Oil, Gas, Refinery, Petro-chemical, Steel, Pulp & Paper, Nuclear & Thermal Power plants ,. Etc

 is a leading company for its business products in South Korea with qualified equipment, manpower and technical capability to design, manufacture and experiment.

These products are manufactured in our modern facilities where the quality is controlled in conformance to **all applicable codes, standards and design** criteria demanded by our licensors and clients.

We,  will continuously input our utmost efforts in order to maintain the best **quality of products, satisfaction of costs** and become a worldwide leader in the flow control valve and system industry.

2. Company History

- 1981. 03 Established **YOUNG Industrial Co.**(Repair & Retrofit)
- 1988. 07 Changed name to SEOJEON Total Control
- 1993. 05 Started the management to repair & Retrofit with KORI (Nuclear Power Plant)
- 1995. 11 Started the production to Metal seat Ball valve
- 1998. 08 Contracted to Repair center with **ABB, Gadelius (Japan), K.K.**
- 1999. 04 Development to Segment & Eccentric Ball valve
- 1999. 08 Registered vender to **KEPCO (Korea Power Engineering Company)**
- 1999. 11 Registered patent of the Metal seated Ball & Control Valve
- 1999. 12 Registered vender to POSCO
- 2000. 03 Contracted to **OEM** for Actuator with **Copes-Vulcan(U.S.A)**
- 2000. 12 Registered the vender to POSCO E&C
- 2001. 06 Changed the company name to **SEOJEON VALMAC Co., Ltd**
- 2001. 09 **Contracted supply to POSCO FINEX Pilot Plant Valve for high-temperature Stand Pipe Valve (DN125-PN160/850°C)**
- 2002. 08 **Contracted supply to POSCO FINEX DEMO. Plant for Metallized Ball valve & cyclone valve(850 °C)**
- 2003. 07 Obtained the "A small and medium enterprise of export" from small and medium enterprise
- 2003. 12 Contracted supply to Korean NAVY
- 2004. 12 Award to Citation for trade from Incheon ci
- 2004. 08 Obtained **Institute of Research and Development** from Korea Industrial Technology Association
- 2004. 12 Established to the **Sales Market Branch Office in Dandong, in China**
- 2005. 12 Contracted supply to POSCO FINEX 1.5MT Project with Control & Shut-off Valves
- 2006. 04 Registered Patent for Riser Ball Valve of the high temperature with power flow system
- 2007. 05 Registered to **KEPCO for Control valve Manufacturer**

2. Company History

- 2008. 10 Obtained the **CE Mark for the Control Valves** from TUV NORD
- 2007. 07 Moved factory to Kimpo from Incheon
- 2009. 10 Obtained the **ISO 14001** from ICR (USA Management Association Registration)
- 2011. 09 Listed as **Control Valve supplier** of **thermal & hydroelectric power plant** at Korea Midland ,Korea Southern &East-West Power Co.,Ltd (R Class)
- 2011. 09 A ward to **Small and Medium Business Federation** from Kyungi-do
- 2011. 11 Listed a **manufacturer for Repair** of thermal &hydroelectric power plant at Korea Midland, East-West,Western & Southern Power Co., Ltd
- 2012. 04 Obtained the **ISO 9001** from TUV (TUV-NORD)
- 2012. 04 Registered to **BASF (The German Chemical Co)** for **Control valve Manufacture**
- 2012. 06 Registered to **NIGC (National Iranian Gas Co)** for **Control valve Manufacture**
- 2012. 07 Registered to **T & C Gulf (Trouvay & Cauvin)** for **Control & Shut-off valve Manufacture**
- 2012. 10 Registered to **MAPNA Group** for **Control valve Manufacture**
- 2012. 11 Obtained the **API 602 & 608 Monogram** from API (American Petroleum Institute)
- 2012.12 Obtained the **OHSAS 18001** from ICR (USA Management Association Registration)
- 2013. 10 Registered to **PETRONAS (Malaysia)** for **Control valve Manufacture**
- 2013. 10 Obtained the **0425 ATEX 2583** (Ex II2 Gc IIC T6) from ICIM S.p.A in Italy
- 2013. 11 Obtained the **API 6D-1397 Monogram** from API (American Petroleum Institute)
- 2013. 12 Award to Citation for trade from Gyeonggi-do
- 2014. 03 Obtained the **ISO 9001** from ICR (USA Management Association Registration)

3. General Information

3-1. Company Features

Company Name : **SEOJEON VALMAC Co., Ltd**
Established : In 1981 by Mr. Jong Sil, Lee / President
Homepage : www.valmac.co.kr
VALMAC : **VAL**ves of the **ME**chatronics **A**uto **f**low **C**ontrol

3-2. Head Office & Factory

Address : # 46 158 Gil Daegotbuk-ro, Daegot-myeon, Gimpo-ci Korea
Telephone : + 82 31 981 3121. Facsimile : +82 31 981 0365
Contact Point : Mr. Kwon Joo , Lee / Managing Director, E- mail : valmac@valmac.co.kr

3-3. China Sales Market Branch Office

Address : Baiqizen, Feng Cheng City, Liaoning Province, P.R China
Telephone : + 86 415 818 2571. Facsimile : + 86 415 818 2570
Contact Point : Mr. Dong Myung, Jung / executive Director, E- mail : dm5233@naver.com

3-4. Capital : USD 300,000 \$
Annual Sales Amount : USD 15,000,000 \$
Full Production Capacity : USD 30,000,000\$

3-5. Company Management Policy

Continuously challenge with innovative thinking and technology

3. General Information

3-6. Manpower

Description	Sales	Design	Production	Administration	QA/QC	Total
No of People	6	5	19	5	5	40

3-7. Experience of Technicians

Experience (Years)

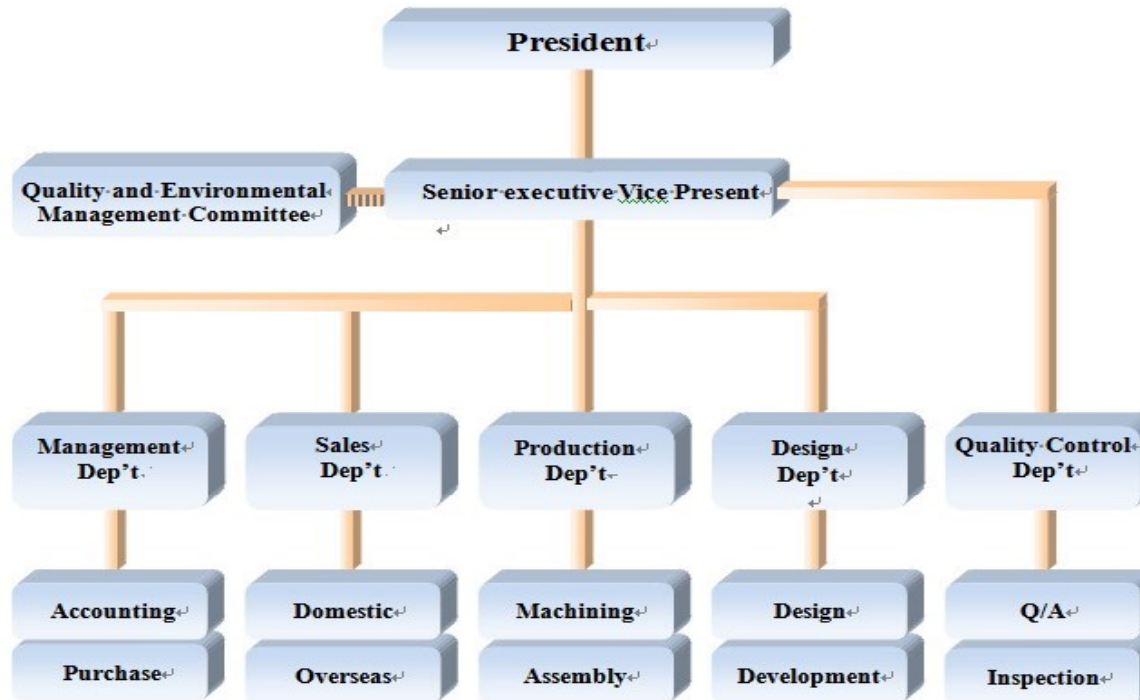
Discipline	Y<5	5<Y<10	10<Y	Total
Metallurgical	1	2	6	9
Mechanical	1	4	9	14
Electrical		1	1	2
QA/QC	1	2	2	5
Total	3	9	18	30

3-8. Building & Acreage (m²)

Building	Ground	Building	Total
Factory (Korea)	9,000 m ²	3,3 00 m ²	12,300 m ²
Branch Office(China)	3,000 m ²	3,500 m ²	6,500 m ²

3. General Information

3-9. Organization Structure



3-10. Service Capability

SEOJEON Vaimac has expertise on [designing, erecting, commissioning and training of personnel](#) in the field of reducing and metering stations and of components for the [Mechatronics Auto Control & System](#).

SEOJEON Vaimac is capable of providing [technical advice & service](#), as well as several field assistance domestically and overseas.

4. Production Control

4-1. Production Activities

SEOJEON VAIMAC specializes in design, manufacturing and service of **Control & Special Valves** that are used for flow pipelines on **Water, Gas, Oil, Steel & Iron and Power plants.**

4-2. Main scope of application

- Oil & Gas Plant, Chemical and Refinery, Petrochemical Plant
- Nuclear and Thermal Power plant, Offshore and Shipbuilding
- Steel and Iron Industry plant, Cooling and heating water (conditioning) System
- Waste and Water treatment System, Pulp & Paper Industry Plant,

4-3. Main products range

SEOJEON VAIMAC incorporates all aspects of Control & Specials Valves to engineer and manufacture

No	Type	Item Description	Size	Rating
1	Control & Special Valve	1. Globe Valve (2 & 3 Way, Piston, Pressure Reducing & Safety Type) 2. Ball Valve (Side/Top Entry/ Metal / Eccentric/"V" Cut Type) 3. Butterfly Valve (Rubber/Metal/ Hi-Performance/Triple offset) 4. Micro Flow Control Valve (Cv 0.00008 ~ 0.1) 5. Desuper heater Station Valve 6. High Temperature & Cryogenic Valves (1,100°C / -194°C)	1/2" ~ 78" 15~2,000 mm	150 ~ 4,500 Lbs PN10 ~ 250
2	Actuator	1. Pneumatic Diaphragm & Cylinder (Multi & Single Type) 2. Hydraulic Cylinder, 3. Electric Actuator (Rotary & Liner Type)	40~550 mm	5 ~ 9 kgf/cm2 Hydraulic 250 Bar
3	Controller	1. I(E)& P(P/P) Positioner 2. I(E) Transducer 3. Filter & Regulator	4~ 20mA	5 ~ 9 kgf/cm2

4. Production Control

4-4. Manufacturing Process

The latest software programs are in line with CNC machining through a complete Network of data communication connecting all the activities of the factory. All valve parts are machined under the control of a comprehensive ISO 9001 and API Q1 quality assurance system.

SEOJEON VAIMAC has several machine tools for fine and precise machining, sophisticated and high technological facilities for valves, parts production, lapping tools, customized machine work equipment, and testing and inspection of equipment. These facilities are used to manufacture over 100 different kinds of products as per service fields.

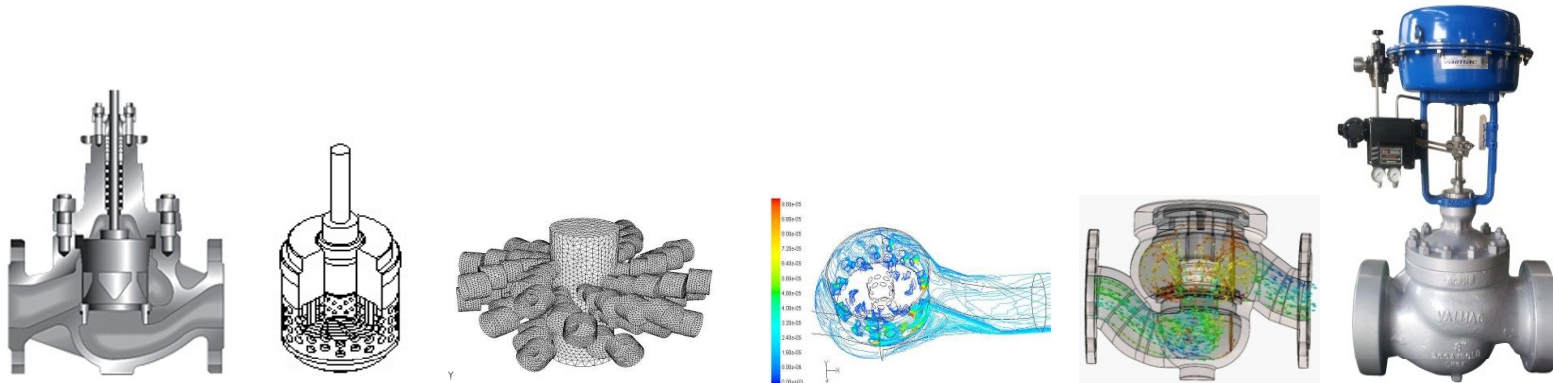
4-5. Manufacturing Facilities List

No	Description	Model	Q'ty	No	Description	Model	Q'ty
1	CNC Lathe	KT 28	3	10	Precision Lathe	200 x 2,000	2
2	M. C.T	1200 x 1200	1	11	Milling M/C	Hwa Cheon	2
3	Lathe	300 x 1800	6	12	Radial M/C	1,500	1
4	Compressor	15 Hp	4	13	Shooting Machine	300 x 500	1
5	Welding M/C	Argon, 5.0kw	1	14	Polishing M/C	1,000	1
6	Welding M/C	Arc	1	15	Thermal Spray Coating M/C	Tungsten, Nickel	2
7	Marking M/C	100 x 300	1	16	Hoist	10 Tons	4
8	Cutting M/C	1000 mm	1	17	Paint Booth	2.0 x 2.4	1
9	Tapping M/C Drilling M/C	1~50mm	3	18	Electric Power Generator	220 V	1

5. Technical Control

5-1. Design Data

SEOJEON Vaimac design engineers combine proven engineering expertise with state-of-the-art technology, including computer aided design (**Auto CAD & Solid work soft program**) and finite **element analysis (structure, thermal, fluid and mobile)**, to refine existing designs and help develop new products.



5-2. General Design

The **pressure / temperature rating** for the valve is in accordance with the appropriate class **ANSI B 16.5 or B 16.34**. The temperatures and dimensions for the face to face is in accordance with **ANSI B 16.10**

The **minimum wall thickness** of valve bodies and other pressure containing parts such as stem, trim, and extension plates are in accordance with **ANSI B 16.34 Table 3**.

All products are designed to be manufactured under the conditions in accordance with the following codes:

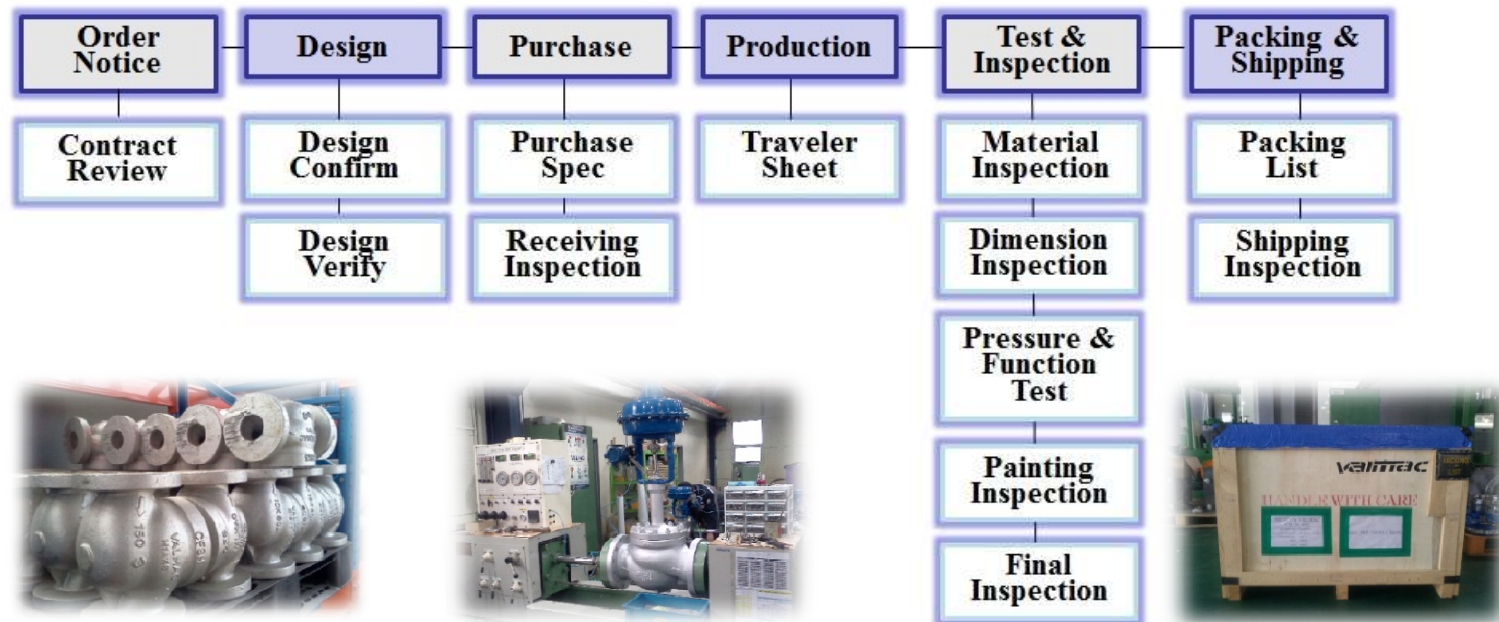
ISO-EN-ANSI-ASTM-ASME-API-BSI-DIN-MSS-SSPC-FCI-ISA-NACE -AWS-AWWA-JIS-KS

6. Quality Control

6-1. **SEOJEON Vaimac** quality system designs, procurement, manufacturing administration, and clients service functions are conducted within a comprehensive **ISO 9001 and API Q1** quality assurance system.

As a result, **SEOJEON Vaimac** manufacturing facilities and procedure manuals meet or surpass one or more of the quality standards.

The goal of **SEOJEON Vaimac** is 100% conformance to agreed **specification and quality requirements**, such as the requirements of material certificate, where testing, drawing and other essential data are clearly identified and provided on time. International quality standards include **ISO 9001, API Q1, CE** as follows ;



6. Quality Control

6-2. Inspection & Test

SEOJEON VAIMAC all manufacturing plants are fully equipped with facilities to carry out **inspections & test** on each valve before shipment according to the **customer's specific requirement and special testing**. For example, for valves requiring capabilities to withstand lower temperatures can be specially designed. Our inspection and test capabilities include but are not limited to,

- Receiving Inspection for the Raw materials
- Visual, Dimensional, Painting and Packing Inspection
- Pressure Test (pneumatic or hydrostatic)
- Nondestructive Test of PT/RT/UT/MT as per customer specification
- Reviewing for the Certificate of Material Test Report (CMTR)
- Certificate of Conformity (c of c) to the specified code and standards
- High temperature and Cryogenic Test





6-3. Inspection & Test Equipment List

No	Type	Description	Q'ty	No	Type	Description	Q'ty
1	Pressure Tester	50 ~ 2,000 mm	6	9	Actuator tester	50 ~ 550 mm	2
2	Leakage Tester	50 ~ 1,000 mm	4	10	Cryogenic Tester	~ 1200mm	1
3	Repetition Tester	15 ~ 250 mm	2	11	Flow Capacity Tester	~ 300mm	2
4	Dial Gauge	0-10 mm	2	12	Micrometer	25 ~75 mm	8
5	Venire Calipers	0 ~ 1,000 mm	36	13	RPM Tester	30V.3A	1
6	Thickness Gauge	0.1 ~ 50 mm	1	14	Torque Wrench	~ 100 kg/m	3
7	Hardness Tester	100 HRC	1	15	High Temperature Tester	~ 1200°C	1
8	Spring Tension Tester	500 ~1,000	1	16	Pitch Gauge	2P ~ 20P	2

7. Quality & Technical Conditions

No	Process	Apply Standard & Specification	VALMAC Quality & Technical Procedure
1	QA/QC	- ISO 9001 / 14001, OHSAS 18001, API Q1 - PED (97/23/EC)	- Quality Assurance Manual (SJM-QEM -001) - Procedure for Quality Assurance and Control (QP-Q-203)
2	Material	- EN 10204 Type 3.1 - NACE MR 0175 - ASTM/ASME/ANSI Materials Spec	- Procedure for Material Identification(QP-M-505) - Procedure for Supplier Control(QP-P-402) - Procedure for Corrosion Environment Control (QP-E-701) - Working Std of Material Purchase (QP-PS-05) - Working Std of Heat Treatment (QP-WI—HT-01)
3	Design	- API 6A / 6D / 602 / 608, ISA S75-01/ FCI 70-2 - ASME/ANSI B 16.5 / 16.10 / 16.34 - BS 6755 Part 2 / ISO 10947 (Fire safety test)	- Procedure for Design and Development(QP-D-601) - Procedure for Drawing Control (QP-D-602) - Working Std of Fire Safety Test (QP-WI-FT-01)
4	By Pass	- ASME/ANSI B 1.1 / 1.20/ 16.34 - ISO 228-1/2 - API 6A / 6D / 600 / 602 / 608	- Procedure for Design and Development(QP-D-601) - Procedure for Production Controls (QP-M-506) - Working Std of Material Purchase (QP-WI-PS-01)
5	Actuation Kind of	- ISO 5211 -Type : Electric, Pneumatic, Hydraulic	- Procedure for Inspection and Testing(QP-Q-206) - Procedure for Measuring and Testing Equipment (QP-Q-204) - Working Std of Maintenance (QP-WI-MT-01)
6	Visual	- ASME / ANSI B 16.34 , 16.5 - MSS-SP-25,44, 55 - BS 1868	- Procedure for Material Identification(QP-M-505) - Procedure for Inspection and Testing(QP-Q-206) - Working Std of Marking (QP-WI-MK-01) - Working Std of Coating (QP-WI-CO-01)
7	Surface	- SSPC-SP-10 - BS 1868(Coating)	- Procedure for Production Controls(QP-M-506) - Working Std of Surface Treatment and Painting Work (QP-WI-SF-01)

7. Quality & Technical Conditions

No	Process	Apply Standard & Specification	VALMAC Quality & Technical Procedure
8	Dimension	- ASME/ANSI B16.34 / 16.10 - API 6A / 6D / 602 / 608	- Procedure for Inspection and Testing (QP-Q-206) - Working Std of Machine Work (QP-WI—MC-01)
9	Testing (Pressure)	- ISO 5208 / EN 1626 / BS 6364 / / KS B2821 - API 598 / 6A / 6D / 602 / 608 - ASME/ANSI B16.34 / B16.37 / B16.104 - FCI 70.2 / ISA S75.19 / IEC 60534-4	- Procedure for Inspection and Testing(QP-Q-206) - Working Std of Installation (QP-WI-IS-01) - Working Std of Pressure Test (QP-WI-PT-01) - Working Std of Cryogenic Test (QP-WI-CT-01)
10	Welding	- AWS - ASME Sec IX(WPS / PQR / WPQ) - ASME/ANSI B16.34	- Procedure for Process Controls(QP-M-501) - Procedure for Production Controls(QP-M-506) - Working Std of Welding Work (QP-WI-WD-01)
11	NDE	- ASME Sec V/ VIII Div 1 - ASME/ANSI B16.34 - ASTM E10 / 18 / 94 / 142 / 709	- Procedure for Production Controls(QP-M-506) - Procedure for Inspection and Testing(QP-Q-206) - Working Std of NDE Work (QP-WI-NDE-01)
12	Certificate	- ISO 9001 / 14000 - OHSAS 18001 - API Q1 - PED (97/23/EC)	- Procedure for Customer Satisfaction(QP-S-303) - Working Std of Packing and Shipment(QP-WI-PD-01) - Certificate of Conformance (ISO 10204) - Declaration of Conformity (PEC 97/23/EC)
<p>Remarks :</p> <ol style="list-style-type: none"> 1.  will guarantee the product against defects / damages in manufacturer for a period of one (1) year after loading from factory 2.  will guarantee warrant quality through QC or Customer inspection before loading. 			

8. Certification & Registration

8-1. License & Certification Status

Date	Title	Contents	Licensors	Approval Type
2012. 03	ISO 14001	The Environmental Management System for the Control Valves	ICR	Environmental Assurance System
2006. 11	CE Mark	The Certificate for the Design and Construction of Control Valves	T U V NORD	Safety System
2008. 06	Type Approval	Fire Test Type approval for the Ball & Butterfly Valve	KETC	Safety System
2011. 09	R Class	Listed as a Control Valves Supplier for Thermal & hydroelectric Power plant	Korea Midland & East-West Power Co., Ltd	Quality Assurance System
2011. 06	Venture Business	Technology Evaluation Assured Company	Small and medium enterprise	New Technology
2010. 03	R & D Center	Permission of R&D center	Korea Industrial Technology Association	Research & Development
2010. 06	Inno-Biz	New Technology Company	Small and medium enterprise	New Technology
2012. 11	API Q1 / 602 / 608	The Quality Management System for Control Valves	API	Quality Assurance System
2012. 12	OHSAS 18001	The Safety Management System for the Control Valves	ICR	Safety Assurance System
2013. 10	CE Mark (0425ATEX2584)	The Certificate for the Design and Construction of Control Valves	ICIM	Safety System
2013. 11	API Spec 6D	The Quality Management System for Control Valves	API	Quality Assurance System
2014. 03	ISO 9001	The Environmental Management System for the Control Valves	ICR	Environmental Assurance System

8. Certification & Registration

8-1-1. Certification (ISO 9001, ISO 14001 & OHSAS 18001)



Certificate of Registration

This is to certify that :

SEOJEON VALMAC CO., LTD.
46, Daegotbuk-ro 158beon-gil, Daegot-myeon, Gimpo-si, Gyeonggi-do,

Has been assessed by International Certification Registrar Ltd., in
Quality Management Systems and found to comply with

ISO 9001:2008

Approval is hereby granted for registration providing the rules and
relating to certification are observed at all times.

Certification Scope

Design/Development, Manufacture and Maintenance of
Control Valves, Manual Valves, Valve Accessories

Certificate Issue Date : 14th March 2014
Expiration Date : 13th March 2017 Certificate No. :

The Seal of ICR Limited was here to affixed
in the presence of :



President



ICR International Certification Registrar is a certification body directly registered to ANAB and is verified at the ANAB website



Certificate of Registration

This is to certify that :

SEOJEON VALMAC CO., LTD.
46, Daegotbuk-ro 158beon-gil, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

Has been assessed by International Certification Registrar Ltd., in respect of
Environmental Management Systems and found to comply with

ISO 14001:2004

Approval is hereby granted for registration providing the rules and conditions
relating to certification are observed at all times.

Certification Scope

Design/Development, Manufacture and Maintenance of
Control Valves, Manual Valves, Valve Accessories

Certificate Issue Date : 14th March 2014
Expiration Date : 13th March 2017 Certificate No. : E08171

The Seal of ICR Limited was here to affixed
in the presence of :



President



ICR International Certification Registrar is a certification body directly registered to ANAB and is verified at the ANAB website



CERTIFICATE OF REGISTRATION

Occupational Health and Safety Management System

SEOJEON VALMAC CO., LTD.
46, Daegotbuk-ro 158beon-gil, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

CREBIZQM hereby certifies that the Management System of the above organization
conforms with the requirement of the following standard :

Standard of Certification

K-OHSMS 18001:2007 / OHSAS 18001:2007

Scope of Certification

Design, development and manufacture of automatic control valve, manual control valve and
valve accessory

Valid until : 14, July, 2019 / Date : 15, July, 2016
Issue Date : 15, July, 2016

Approved by : 

President CrebizQM

77, Seongsan 104g, 127, Yanggyeong-ro, Yeongdeunggo-gu, Seoul, Korea

CREBIZQM Co., Ltd. has accredited by Korea Accreditation Board as a Certification Body for
Occupational Health and Safety Management System (Accreditation number : KAB-OC-11)
This certificate remains the property of CREBIZQM and is bound by the conditions of contract.



8. Certification & Registration

8 – 1 - 2. Certification (API 602 - Globe Valve, 608 – Metal Seated Ball Valve , 6D – Ball Valve)



8. Certification & Registration

8 – 1 - 3. Certification (CE Mark – Control Globe Valve, Ball Valve & Piston Valve)

8. Certification & Registration

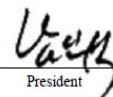
8-1-4. Certification (Fire Safety Test, Power Plant Approval, ATEX)

No. 4B5I-49NG-BXSZ-L7RZ (1/2)

CERTIFICATE OF APPROVAL

1. Certificate NO : J569
 2. Company Name : SEOJEON VALMAC
 3. Factory Location : #46, 158 Gil, Daegotbuk-ro, Daegot-myeon, Gimpo-si, Korea

Korea Midland Power Company certifies that the above company can repair and maintain equipment of KOMIPO's power plants


 President
Korea Midland Power Co., Ltd

* This document issued from website. You can verify this document from www.komipo.co.kr by issue number.

발급번호 : AD57-3494-4FFD-82CA-BB44


기자재 공급 유자격 등록증


등록번호 : EASYU2016-02360
 업체명 : (주)서전발맥
 공장주소 : 경기도 김포시 대곶면 대곶북로 158번길 46
 품명 : 제어밸브
 유역구분 : 건설(제어)
 유효기간 : 2016-03-14 ~ 2019-03-13


비고 :


EASY-U

2016. 03. 16


 한국남부발전주


 한국동서발전주


 한국중부발전주


 한국서부발전주

* 인터넷으로 발급된 인증서이며, <https://easyu.kospo.co.kr> 에서 원본 확인이 가능합니다

TUV NORD

Fire Safety Certificate

(Certificate of conformity with technical requirements in: API Standard 6FA W/Reaf September 2011)
Date issue : February 11, 2016


Certificate No. : K10343/C16
 Equipment : Metal Seat Ball Valve
 Manufacturer : Seojeon VALMAC Co., Ltd.
 46, Daegotbuk-ro 158beon-gil, Daegot-myeon, Gimpo-si, Gyeonggi-do 10038, Korea


This is to certify, at the request of Messrs Seojeon VALMAC Co., Ltd., that the undersigned inspector witnessed Fire safety test(API Standard 6FA W/Reaf September 2011) of the High Metal seat ball Valves

Description of Test Valve :	
• Body Materials	WCB, CF8M, CD4MCu
• Seat Materials	CF8M, CD4MCu
• Size of Tested	2", 6", 12", 16"
• Rating of Tested	150 Class
• Applied Drawing	2" : VM210-09H-00A-RF; 6" : VM220-14H-00A-RF; 12" : VM210-17H-00A-R; 16" : VM210-19H-00A-R.

Qualified Range of Valves :	
• Qualified Valve Size(NPS)	2" - 2", 2 1/2", 3", 4", 6" - 6", 8", 10", 12"
(According to API 6FA)	12" - 12" through 24"; 16" - 16" larger
• Qualified Pressure Rating (Class)	150 Class - 150 Class, 300 Class
(According to API 6FA)	
• Valve Body Material	Ferritic, Austenitic, Duplex

I hereby certify that the fire safety test for above mentioned item has been carried out successfully


 Young-Cheon Kim
 EMCD and LVD Reviewer
 MD Project Engineer
 SO 9001/ISO 14001 Auditor
 Witness Engineer of Test Lab.
 ISO/IEC 17025 Internal Auditor
 Inspector of Industrial equipment










The issue of this document does not relieve the supplier/manufacturer from its responsibility to its client to supply the item(s) concerned in full compliance with the requirements of its client specification.

TUV NORD F. 010000 100 000
 TUV NORD F. 010000 100 000
 TUV NORD F. 010000 100 000
 TUV NORD F. 010000 100 000

8. Certification & Registration

8-2. Client Approval Status

Symbol Mark	Name of Client	Symbol Mark	Name of Client
	Korea Power Plant Co		Honam Petro-chemical Co
	Korea Gas Corp		Hyundai Steel Co
	Hyundai Eng & Cont'		Kolon Construction Co
	LG Chemical Co		Korea Aerospace R & I
	Samsung Digital Co		SK Construction Co
	DOOSAN Heavy Ind Co		KCC Co
	S - Oil Co		China Petro Chemical Co
	POSCO Steel Co		Exxon Mobil
	GS Construction Co		Spirax Sarco
	Hankook Tire Co		B A S F
	SC Engineering Co		N I G C
	Hyundai Oil Bank Co		MAPNA Group

9. Major Reference List

9-1. Domestic Area (1)

Client / Customer	Item Description	Size	Year	Major Plant
POSCO	Control & Shut-off Valves	2"~ 24"	1991~	Finex, Gas Power & Steel
POSCO E&C	Control Valves ,, etc.	1"~ 18"	1995~	Iron Steel & Power
KEPCO	Control Valves ,, etc.	2"~ 16"	2001~	Thermal Power
Samsung Digital	Control & Shut-Off Valves ,, etc.	1"~ 12"	2005~	Steam & Water Treatment
Kumho Petro-Chemical	Control valves ,, etc.	2"~ 24"	2008~	Refinery
K C C	Control & Shut-Off Valves ,, etc.	1"~ 36"	2008~	Chemical
S – Oil	Control Valves	2"~ 28"	2008~	Petro-chemical
DOOSAN Heavy Ind	Control valves ,, etc.	2"~ 30"	2008~	Steam & Water Treatment
Cheil Chemical	Control & Shut-off Valve,, etc.	2"~ 18"	2008~	Steam & Chemical
KARI	Control Valves	1"~ 8"	2006~	Aerospace Fluid Line
CJ	Control & Shut-Off Valves ,, etc.	1"~ 24"	2007~	Steam
INI Steel	Desuper Heater & Control Valves	2"~ 28"	2007~	Oxygen & Steel
Ulsan Chemical	Control & Shut-off Valves ,, etc.	2"~ 36"	2007~	Chemical
Kolon	Control & Shut-Off Valves ,, etc.	2"~ 16"	2008~	Chemical
Hansol Pulp	Control & Shut-Off Valves ,, etc.	21"~ 20"	2008~	Paper & Pulp

9. Major Reference List

9-1. Domestic Area (2)

Client / Customer	Item Description	Size	Year	Major Plant
Hyundai Oil Bank	Control & Shut-off Valves, etc.	2"~ 24"	2004~	Refinery
Hyundai Eng'	Desuper Heater & Control Valves	1"~ 28"	2004~	Oil & Refinery
LG Chemical	Control & Shut-off Valves, etc.	2"~ 20"	2006~	Chemical Plant
KOGAS	Control & Shut-off Valves, etc.	2"~ 14"	2006~	LNG Gas
LG Caltex	Control Valves, etc.	2"~ 18"	2006~	Refinery
Hyosung	Control & Shut-off Valves, etc.	1"~ 48"	2006~	Chemical & Steam
Hanwha	Control Valves	1"~ 18"	2007~	Petro-chemical Plant
Hankook Tire	Control Valves, etc.	2"~ 16"	2007~	Steam & Water Treatment
Namhae Chemical	Control & Shut-off Valve, etc.	2"~ 48"	2008~	Steam & Refinery
BASF	Control Valves	1"~ 24"	2009~	Chemical
ISU Chemical	Control & Shut-off Valves, etc.	2"~ 18"	2009~	Chemical
Hyundai Rotem	Desuper Heater & Control Valves	2"~ 20"	2009~	Hydrogen & Iron
Il Jin Energy	Control & Shut-off Valves, etc.	1"~ 18"	2009~	Nuclear Power
Spirax Sarco	Control Valves	1" - 18"	2009 ~	Steam & Shipbuilding

9. Major Reference List

9-2. Overseas Area

Client / Customer	Item Description	Location	Year	Major Plant
Megantara Petro-chemical	Control Valves	Singapore	2004~	Oil & Steam
PT. Danan Wingus	Control & Shut-off Valves ,. etc.	Hong Kong	2004~	Steam
NSIF	Control Valves ,. etc.	Saudi Arabia	2004~	Oxygen
Jiaxing Samsung	Control Valves ,. etc.	China	2004~	Water Treatment
Deaarrollo SACV	Control Valves	Mexico	2004~	Thermal Power
China Petro-chemical	Control & Shut-off Valve, . etc.	China	2005~	Oil & Gas
TOSHIBA	Control Valves	Japan	2005~	Shipbuilding
Marafiq	Control Valves	Saudi Arabia	2009~	Power Plant
Aldur	Ball Shut-off Valves	Bahrain	2009~	Power Plant
Alkhalij	Control & Shut-off Valves ,.etc.	Lybyan	2010~	Power Plant
Alqatrana	Control & Shut-off Valve ,.etc.	Jordan	2010~	Power Plant
Ptmitra Wira Pratama	Control valves , etc	Indonesia	2010~	Power Plant
Brocaina	Control Valves	Chille	2012~	Power Plant
Qurna phase 2	Shut-off Valves	Iraq	2012~	Refinery
Bardsir Steel Complex	Control & Shut-off Valves, . etc.	Iran	2012~	Steel Plant
T & C Gulf	Control & Shut-off Valves, . etc.	UAE	2012~	Oil & Refinery
Gol-E-Gohar Iron Ore Co.	Control & Shut-off Valves, . etc	Iran	2013~	Steel Plant

10. Production Conditions

10-1. Control Valve



Item	Type Description	Size	Rating	Material	Actuator
Globe Control	<ol style="list-style-type: none"> 1. 2 & 3 Way Type 2. Angle Type 3. Micro Flow Type 4. High Temperature & Cryogenic (1,100°C/-194°C) 	<p>1/2" ~ 24" 15~ 600 mm</p>	<p>150 ~ 4,500 Lbs PN10 ~ 250</p>	<p>Carbon & Stainless Steel, Alloy</p>	<p>Multi Spring Diaphragm & Electric</p>

10. Production Conditions

10-2. Shut-off Valves (1)



Item	Type Description	Size	Rating	Material	Actuator
Ball Valve	<ol style="list-style-type: none"> 1. Ball Valve (Side/Top Entry/ Metal Eccentric/Segment "V" Cut Type 2. High Temperature & Cryogenic (1,100°C/-194°C) 	<p>1/2" ~ 48" 15~ 1,200mm</p>	<p>150 ~ 2,500 Lbs PN10 ~ 250</p>	<p>Carbon & Stainless Steel, Alloy</p>	<p>Multi Spring Diaphragm, Cylinder & Electric</p>

10. Production Conditions

10-3. Shut-off Valves (2)



Item	Type Description	Size	Rating	Material	Actuator
Butterfly Valve	<ol style="list-style-type: none"> Rubber & Metal Hi-Performance & Triple offset High Temperature & Cryogenic (1,100°C/-194°C) 	1/2" ~ 78" 15~ 1,200 mm	150 ~ 1,500 Lbs PN10 ~ 250	Carbon & Stainless Steel, Alloy	Multi Spring Diaphragm, Cylinder & Electric

10. Production Conditions

10-3. Special Valves



Item	Type Description	Size	Rating	Material	Actuator
Desuper Heater Valve	<ol style="list-style-type: none"> Multiple Nozzle Spray Variable Orifice PRDS 	<p>3" ~ 24" 80~ 600 mm</p>	<p>150 ~ 1,500 Lbs PN10 ~ 250</p>	<p>Carbon & Stainless Steel, Alloy</p>	<p>Multi Spring Diaphragm,</p>

10. Production Conditions

10-4. Actuators



Item	Type Description	Power	Capacity	Material	Valves
Electric Type	<ol style="list-style-type: none"> 1. Quarter Turn 2. Multi Turn 	380/440V 110/220V 50 / 60 Hz	IP 67 EExd 1 BT4	Aluminum & Steel, Alloy	Control & Shut- off Valves

10. Production Conditions

10-4. Actuators



Item	Type Description	Power	Capacity	Material	Valves
Pneumatic Diaphragm Type	<ol style="list-style-type: none"> 1. Multi Spring Diaphragm 2. Top Mounted Hand Wheel 3. Side Mounted Hand Wheel 	3 ~ 3.5 Bar	Direct Reverse	Steel, Alloy	Control & Shut-off Valves

10. Production Conditions

10-4. Actuators



Item	Type Description	Power	Capacity	Material	Valves
Pneumatic Cylinder Type	Rotary & Liner	5 Bar	Double Acting Spring Return	Aluminum & Steel, Alloy	Control & Shut-off Valves

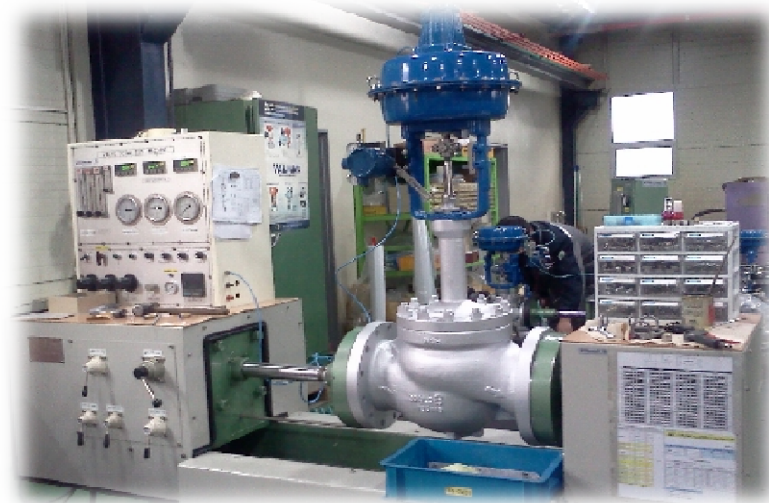
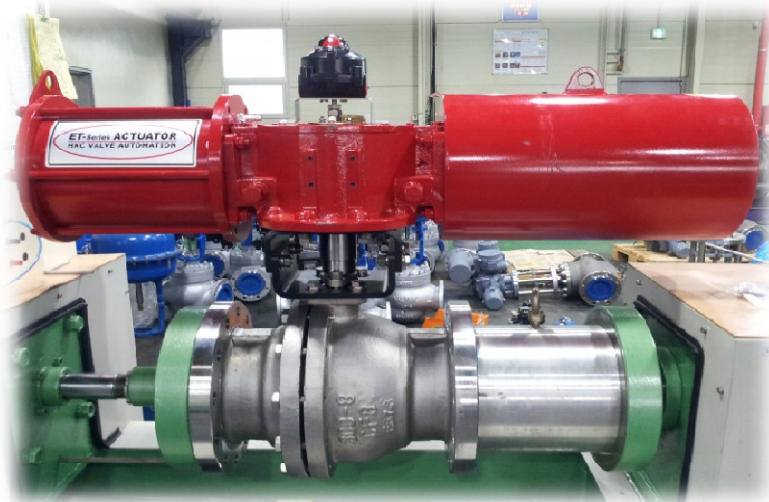
11. Production Photo Sheet

11-1. Test & Measurement



11. Production Photo Sheet

11-2. Inspection & Test



11. Production Photo Sheet

11-2. Production (1)



11. Production Photo Sheet

11-2. Production (2)



11. Production Photo Sheet

11-3. Packing



12. Materials Control

12-1. Part Materials



12. Materials Control

12-2. Stock



Thanks

We, **SEOJEON Vaimac** will continuously develop our products with **innovative thinking & technology** and will do our best to serve you.

Thank you very much for your attention.





SeoJeon Valmac Co., Ltd

#46, Daegotbuk-ro 158gil, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

Tel : 82-31-981-3121, Fax : 82-31-981-0365

E-mail : valmac@valmac.co.kr, <http://www.valmacs.com>