



*The quality option*



## JC Presentation

- 1.- Company Approvals
- 2.- Product Approvals
- 3.- Contracts and References
- 4.- End Users Approvals



## JC PRESENTATION

JC Fábrica de válvulas, s.a. is one of the companies of TTV – JC Valve Group that includes also TTV, S.A. (Butterfly Valves manufacturer), ACTREG, S.A. (Pneumatic actuators manufacturer), ICP, S.A. (HVAC equipment) and AJ Valveline (Strainers, Separators and special equipment).

### A.- FACTORY IN SPAIN

1. Company's registered name: JC Fábrica de válvulas, s.a.

2. Address: Cantabria nº 2 - Pol. Ind. Les Salines - 08830 SANT BOI DE LLOBREGAT - SPAIN

3. Telephone: + 34 93 654 86 89      4. Fax: + 34 93 654 86 87      5. E-mail: [sales@jc-valves.com](mailto:sales@jc-valves.com)      6. Website: <http://www.jc-valves.com>

7. Year established: 1988

8. Capital (paid up and authorised): 120 202,42 €

9. Name of Managing Director: César Abarca

10. Number of employees: 58

11. Annual turnover (2011): 20 028 000 €

12. Name of Export Sales Manager: Antonio Da Gama

13. Certifications:

Quality Assurance.- ISO 9001:2008 certified by B.V.Q.I., CE marking (P.E.D.) certified by Bureau Veritas. Our Quality Assurance is also certified API Q1 by the AMERICAN PETROLEUM INSTITUTE.

Environment: ISO 14001

Product: API 6A, API 6D, API 600, ATEX, BS 6755 Part. 2, API 607, ISO 10497.

14. Products

Ball valves; full and reduced bore, floating or trunnion mounted ball. Valves can be with soft (elastomeric) seats or metal to metal.

ASME - API – EN – BS      Sizes 1/2" to 36". Pressure Classes 150, 300, 600, 800, 900 and 1500.

DIN – EN – BS - NF      Sizes DN 15 to DN 500. PN 10, 16, 25, 40, 63 and 100.

Supply and/or assembly and testing of Worm Gear, Pneumatic, Electric, Hydraulic and Gas Over Oil actuators, solenoid valves, limit switches, stem extensions, steam jackets, locking devices and other accessories for ball valves.

Gate valves; Bolted bonnet or pressure seal.

ASME – API – BS – ISO      Sizes 2" to 48". Pressure Classes 150, 300, 600, 900, 1500 and 2500.

Globe valves; Bolted bonnet or pressure seal.

ASME – BS      Sizes 2" to 24". Pressure Classes 150, 300, 600, 900, 1500 and 2500.

Check valves; Bolted bonnet or pressure seal.

ASME – API – BS – ISO      Sizes 2" to 36". Pressure Classes 150, 300, 600, 900, 1500 and 2500.

15. References

List of customers by industry sectors and list of main contracts enclosed



**16. Staff:**

Number of engineers		6
Number of designers		4
Number of Procurement personnel		5
Number of worker (may be specified by level)		22
Assembly & testing responsible	1	
Assembly & testing foreman	1	
Assembly & testing workers	20	
Number of QA/QC personnel		5 (1 engineer)
Other employees	18	
Management Staff	2 (1 engineer)	
Commercial Dept.	5 (3 engineer)	
Research & Development	3 (1 engineer)	
Warehouse and Logistics	5	
Accounting Dept.	3	

**17. Work shop facilities**

Indoor area	7500 m2
Total area	10165 m2

**18. Major machinery available..**

JC Fábrica de válvulas, s.a. subcontracts all supply of rough castings and machine works either to Companies appertaining to the same Group or to independent suppliers.

**19. International design standards familiarity**

International Standards: ISO, NAMUR.

European Standards: ATEX, BS, DIN, EN, NF, STOOMWEZEN, UNE.

American Standards: ASME, API, ASTM, ANSI, MSS and NACE.

**20. Standard Test facilities available**

JC Fábrica de válvulas, s.a. has facilities for pressure testing of valves either hydrostatic, pneumatic, cryogenic or with Helium.

Non destructive examination can be performed either Dye penetrant liquids, Magnetic Particles, Ultrasonic examination or x-raying.

Positive Material Identification is also supplied upon request.

**21. Fabrication capacity**

Number of valves produced per year	96 043 ball valves in 2011
Testing facilities capacity	About 140 000 (Depending on sizes manufactured)

**B.- SUBSIDIARIES**

- Registered name: JC Manufacturing Group (Shanghai) Co., Ltd.  
Address: No.790 Tao Gan Road, She Shan Industrial Park, Songjiang, Shanghai 201602, PRC
- Registered name: JC-TL Ball Valve Corporation  
Address: 20201 Clark Graham, Baie d'Urfé, Quebec H9X 3T5, Canada
- Registered name: JC Flow Controls Pte. Ltd.  
Address: 5 Tuas View Close, Tradelink Place, 637490 Singapore
- Registered name: JC Válvulas (ME) FZC.  
Address: PO Box 51937 – Warehouse no. 1J-02/1 – Hamriyah Free Zone – Sharjah – U.A.E.

## **JC<sup>®</sup> APPROVALS**

### **QUALITY ASSURANCE SYSTEM**

- **ISO 9001:2000** certified by **BUREAU VERITAS QUALITY INTERNATIONAL**
- **EC Pressure Equipment directive Annex III Module H** certified by **BUREAU VERITAS**
- **API Q1** certified by the **AMERICAN PETROLEUM INSTITUTE**

### **HEALTH, SAFETY, ENVIRONMENT**

- **ISO 14001** certified by **BUREAU VERITAS**

### **BALL VALVES**

- **API 6D** certified by **American Petroleum Institute**
- **EC Explosive Atmospheres directive (ATEX)** technical file deposit at **LCIE**
- **Fugitive Emissions tests to ISO 15848-1:2006** certified by **SGS**
- **TA Luft** certified by **TÜV SÜDWEST**
- **VDI 2440:2000** certified by **SGS**
- **Fire-Safe BS 6755 Part 2, API 6FA and ISO 10497:1992** certified by **Lloyd's Register.**
- **Fire-Safe API 607 4<sup>th</sup> Revision** certified by **Lloyd's Register.**
- **Fire-Safe ISO 10497:2004** certified by **SGS.**
- **Low temperature tests to BS 6364** certified by **SGS.**
- **Cryogenic tests to BS 6364** certified by **SGS**
- **A.R.G.B. (Belgium Gas)**
- **Abu Dhabi Gas Liquefaction Company Ltd. (ADGAS)**
- **D.G. (Danish Gas)**
- **ENAGAS, S.A. (Spain)**
- **Gas Natural SDG, S.A. (Spain)**
- **GOST (Russia)**
- **Registration of Valves and Fittings in all Canadian provinces**
- **Czech Republic (Brno Institute)**
- **Abu Dhabi National Oil Company (ADNOC)**
- **CEPSA**
- **DOW Chemical**
- **Kuwait National Petroleum Company (KNPC)**
- **Kuwait Oil Company (KOC)**
- **Petróleo Brasileiro, S.A. (Petrobras)**
- **Petróleos de Venezuela, S.A. (PDVSA)**
- **Petroleum Development Oman (PDO)**
- **Qatar Petroleum (QP)**
- **Repsol - YPF Group**
- **SAUDI ARAMCO**
- **SHELL Group**
- **Total Fina Elf Group**

### **GATE, GLOBE & CHECK VALVES**

- **API 6D and API 600** certified by **American Petroleum Institute**
- **EC Explosive Atmospheres directive (ATEX)** technical file deposit at **LCIE**
- **Registration of Valves and Fittings in all Canadian provinces**



# 1.- Company Approvals

**BUREAU VERITAS**  
Certification



## Certification

Awarded to

**JC FABRICA DE VALVULAS, S.A.**

BARCELONA

C/ CANTABRIA 2, POL. IND. LES SALINES, 08830, SAN BOI DE LLOBREGAT,

Bureau Veritas certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

STANDARD

**ISO 9001:2008**

SCOPE OF SUPPLY

DESIGN, DEVELOPMENT, MANUFACTURING AND TRADING OF INDUSTRIAL VALVES, PRESSURE TANKS, STRAINERS AND ITS ACCESORIES.

Original Approval Date : **19 March 2002**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until :  
**28 February 2014**

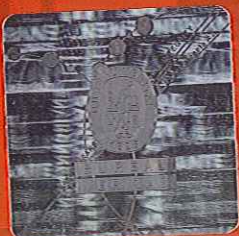
To check the validity of this certificate please call : 91 270 22 00

Further clarification regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation

Certificate Number **ES029742**

Date: **15 February 2011**

Managing office: BUREAU VERITAS CERTIFICATION SA  
Issuing office: BUREAU VERITAS CERTIFICATION SA  
C/ Valportillo Primera 22-24  
Edificio Caoba, Pol. Ind. La granja  
28108 Alcobendas Madrid



**BUREAU VERITAS**  
Certification



## Certification

Awarded to

**JC FABRICA DE VALVULAS, S.A.**

BARCELONA

C/ CANTABRIA 2, POL. IND. LES SALINES, 08830, SAN BOI DE LLOBREGAT,

Bureau Veritas certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

STANDARD

**ISO 14001:2004**

SCOPE OF SUPPLY

DESIGN, DEVELOPMENT, MANUFACTURING AND TRADING OF INDUSTRIAL VALVES,  
PRESSURE TANKS, STRAINERS AND ITS ACCESORIES.

Original Approval Date : **19 March 2002**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until :

**28 February 2014**

To check the validity of this certificate please call : 91 270 22 00

Further clarification regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation

Certificate Number ES029744

Date: 15 February 2011

Managing office: BUREAU VERITAS CERTIFICATION SA  
Issuing office: BUREAU VERITAS CERTIFICATION SA  
C/ Valportillo Primera 22-24  
Edificio Caoba, Pol. Ind. La granja  
28108 Alcobendas Madrid







**CERTIFICADO DE EXAMEN CE DEL DISEÑO**  
*EC DESIGN-EXAMINATION CERTIFICATE*

**N° CE-0056-PED-H1D-JCV-003-11-ESP**

ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., actuando dentro del campo de su notificación (Organismo Notificado nº 0056, y Acreditado por ENAC con acreditación nº OC-C/0190), **certifica** que el diseño del equipo a presión identificado a continuación, ha sido examinado con resultado satisfactorio según los requisitos del **módulo H1** del anexo III de la Directiva de Equipos a Presión 97/23/CE traspuesta por el RD 768/1999.

*ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., acting within the scope of its notification (Notified Body number 0056, and Accredited by ENAC with nº OC-C/190), certifies that the design of the equipment identified hereunder has been examined with satisfactory result against the provisions of annex III, module H1, of the Pressure Equipment Directive 97/23/EC transposed by the RD 769/1999.*

Fabricante (Nombre) / *Manufacturer (Name)*: **JC FÁBRICA DE VÁLVULAS, S.A.**

Dirección / *Address*: **c/ Cantabria, 2. Pol. Ind. Les Salines.,  
8830 Sant Boi de Llobregat,  
Barcelona SPAIN**

Marca comercial / *Branding Name* : **JC**

Descripción del equipo / *Equipment description*: **Valvulas de Bola / Ball Valves**

Identificación del diseño aprobado / *Identification of the approved design*: **Valvulas de Bola /Ball Valves Type DIN**

Versiones cubiertas por el diseño aprobado (*si es aplicable*) / *Versions covered by the approved design (where applicable)*: **See Annex**

Código ó Norma aplicada : **See Annex**  
*Code or Standard applied :*

Referencia al dossier de diseño del fabricante : **Technical Dossier dated 10.07.11**  
*Reference of the manufacturer design dossier :*

Condiciones de validez (en su caso) : **Este certificado es válido solo para los modelos y versiones indicadas en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

*Conditions of validity (where applicable) :*

Este certificado será presumido nulo y solo el fabricante soportará cualquier consecuencia derivada de su utilización, en caso de modificación realizada al equipo cuando esta pueda afectar a la conformidad con los requisitos esenciales de seguridad o prescriban las condiciones de su uso, y de forma general, cuando el fabricante no cumpla con cualquiera de sus obligaciones incluidas en la Directiva Nº 97/23/CE del 29 de mayo de 1997 traspuesta por el R.D. 769/1999.

This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, in case of modification to the equipment where this may affect conformity with the essential safety requirements or the prescribed conditions for use of the equipment, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the R.D. 769/1999.

Fecha del examen / *Date of examination* : **10/03/2011**  
 Inspector / *Surveyor*: **Roberto Garcia**

Realizado en / <i>Made at</i>	El (mes/día/año) / <i>On (MM/DD/YYYY)</i>	Aprobado y registrado en / <i>Approved and Recorded in</i>	Firmado por / <i>Signed by (Director Técnico / Technical Manager)</i>	Firma autorizada por el Organismo Notificado / <i>Signature authorised by Notified Body No 0056</i>
<b>Barcelona</b>	<b>10/03/2011</b>	<b>Spain</b>	<b>Javier Irigoyen</b>	

Code d'enregistrement / *Registration code*: 2011/343.10.893/PSPA

Este certificado está sujeto a los términos de las condiciones generales de actuación de ECA Entidad Colaboradora de la Administración, S.A.U. *This certificate is subject to the terms of ECA Entidad Colaboradora de la Administración, S.A.U. General Conditions of Service.*



**ANEXO al certificado de examen CE de diseño (módulo H1)**  
*Annex to the EC design-examination certificate (module H1)*

**N° CE-0056-PED-H1D-JCV-003-11-ESP**

**Lista de partes relevantes de la documentación técnica**  
*List of the relevant parts of the technical documentation*

**DESCRIPCIÓN DE EQUIPOS, PLANOS, CALCULOS, ESPECIFICACIÓN DE MATERIALES, ANALISIS DE RIESGOS, REQUISITOS ESENCIALES DE SEGURIDAD, DECLARACION DE CONFORMIDAD, MANUAL DE OPERACIONES Y INSTRUCCIONES DE MANEJO**

**Lista de versiones cubiertas (si aplica)**  
*List of the versions covered (where applicable)*

**Este certificado es válido solo para los modelos y versiones indicadas en el anexo a este certificado y según las condiciones establecidas en el dossier indicado .**

PS : **See Annex (bar)**  
TS : **See Annex (°C)**  
Volumen / Volume : **See Annex (litros)**



**CERTIFICADO DE EXAMEN CE DEL DISEÑO**  
**EC DESIGN-EXAMINATION CERTIFICATE**

**N° CE-0056-PED-H1D-JCV-004-11-ESP**

ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., actuando dentro del campo de su notificación (Organismo Notificado nº 0056, y Acreditado por ENAC con acreditación nº OC-C/0190), **certifica** que el diseño del equipo a presión identificado a continuación, ha sido examinado con resultado satisfactorio según los requisitos del **módulo H1** del anexo III de la Directiva de Equipos a Presión 97/23/CE transpuesta por el RD 768/1999.

*ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., acting within the scope of its notification (Notified Body number 0056, and Accredited by ENAC with nº OC-C/190), certifies that the design of the equipment identified hereunder has been examined with satisfactory result against the provisions of annex III, module H1, of the Pressure Equipment Directive 97/23/EC transposed by the RD 769/1999.*

Fabricante (Nombre) / *Manufacturer (Name)*: **JC FÁBRICA DE VÁLVULAS, S.A.**

Dirección / *Address*: **c/ Cantabria, 2. Pol. Ind. Les Salines.,  
 8830 Sant Boi de Llobregat,  
 Barcelona SPAIN**

Marca comercial / *Branding Name* : **JC**

Descripción del equipo / *Equipment description*: **Válvula de Bola / Ball Valve**

Identificación del diseño aprobado / *Identification of the approved design*: **Valvula de Bola /Ball Valve Type ANSI**

Versiones cubiertas por el diseño aprobado (si es aplicable) / *Versions covered by the approved design (where applicable)*: **See annex**

Código ó Norma aplicada : **See annex**  
*Code or Standard applied :*

Referencia al dossier de diseño del fabricante : **Technical Dossier Dated 10.7.2011 & 09.2011**  
*Reference of the manufacturer design dossier :*

Condiciones de validez (en su caso) : **Para los modelos definidos en el anexo.**  
*Conditions of validity (where applicable) :*

Este certificado será presumido nulo y solo el fabricante soportará cualquier consecuencia derivada de su utilización, en caso de modificación realizada al equipo cuando esta pueda afectar a la conformidad con los requisitos esenciales de seguridad o prescriban las condiciones de su uso, y de forma general, cuando el fabricante no cumpla con cualquiera de sus obligaciones incluidas en la Directiva Nº 97/23/CE del 29 de mayo de 1997 transpuesta por el R.D. 769/1999.

*This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, in case of modification to the equipment where this may affect conformity with the essential safety requirements or the prescribed conditions for use of the equipment, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the R.D. 769/1999.*

Fecha del examen / *Date of examination* : **10/03/2011**  
 Inspector / *Surveyor*: **Roberto Garcia**

Realizado en / <i>Made at</i>	El (mes/día/año) / <i>On (MM/DD/YYYY)</i>	Aprobado y registrado en / <i>Approved and Recorded in</i>	Firmado por / <i>Signed by (Director Técnico / Technical Manager)</i>	Firma autorizada por el Organismo Notificado / <i>Signature authorised by Notified Body No 0056</i>
<b>Barcelona</b>	<b>10/03/2011</b>	<b>Spain</b>	<b>Javier Irigoyen</b>	

Code d'enregistrement / *Registration code*: **2011/339.11,3418/PSPA**

*Este certificado está sujeto a los términos de las condiciones generales de actuación de ECA Entidad Colaboradora de la Administración, S.A.U. This certificate is subject to the terms of ECA Entidad Colaboradora de la Administración, S.A.U. General Conditions of Service.*



**ANEXO al certificado de examen CE de diseño (módulo H1)**  
*Annex to the EC design-examination certificate (module H1)*

**N° CE-0056-PED-H1D-JCV-004-11-ESP**

**Lista de partes relevantes de la documentación técnica**  
*List of the relevant parts of the technical documentation*

- DESCRIPCIÓN DE EQUIPOS,
- PLANOS,
- CALCULOS,
- ESPECIFICACIONES DE MATERIALES,
- ANALISIS DE RIESGOS,
- REQUISITOS ESENCIALES DE SEGURIDAD,
- DECLARACION DE CONFORMIDAD,
- MANUAL DE OPERACIONES Y INSTRUCCIONES DE MANEJO.

**Lista de versiones cubiertas (si aplica)**  
*List of the versions covered (where applicable)*

**Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

PS : See annex (bar)  
TS : See annex (°C)  
Volumen / Volume : See Annex (litros)





**CERTIFICADO DE EXAMEN CE DEL DISEÑO**  
**EC DESIGN-EXAMINATION CERTIFICATE**

**N° CE-0056-PED-H1D-JCV-005-11-ESP**

ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., actuando dentro del campo de su notificación (Organismo Notificado nº 0056, y Acreditado por ENAC con acreditación nº OC-C/0190), **certifica** que el diseño del equipo a presión identificado a continuación, ha sido examinado con resultado satisfactorio según los requisitos del **módulo H1** del anexo III de la Directiva de Equipos a Presión 97/23/CE traspuesta por el RD 768/1999.

*ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., acting within the scope of its notification (Notified Body number 0056, and Accredited by ENAC with nº OC-C/190), certifies that the design of the equipment identified hereunder has been examined with satisfactory result against the provisions of annex III, module H1, of the Pressure Equipment Directive 97/23/EC transposed by the RD 769/1999.*

Fabricante (Nombre) / *Manufacturer (Name)*: **JC FÁBRICA DE VÁLVULAS, S.A.**

Dirección / *Address*: **c/ Cantabria, 2. Pol. Ind. Les Salines.,  
8830 Sant Boi de Llobregat,  
Barcelona SPAIN**

Marca comercial / *Branding Name* : **JC**

Descripción del equipo / *Equipment description*: **Válvula de Compuerta / Gate Valve**

Identificación del diseño aprobado / *Identification of the approved design*: **Valvula de Compuerta / Gate Valve**

Versiones cubiertas por el diseño aprobado (*si es aplicable*) / *Versions covered by the approved design (where applicable)*: **See annex**

Código ó Norma aplicada : **See annex**  
*Code or Standard applied :*

Referencia al dossier de diseño del fabricante : **Technical Dossier Dated 10.7.2011 & 09.2011**  
*Reference of the manufacturer design dossier :*

Condiciones de validez (en su caso) : **Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

*Conditions of validity (where applicable) :*

Este certificado será presumido nulo y solo el fabricante soportará cualquier consecuencia derivada de su utilización, en caso de modificación realizada al equipo cuando esta pueda afectar a la conformidad con los requisitos esenciales de seguridad o prescriban las condiciones de su uso, y de forma general, cuando el fabricante no cumpla con cualquiera de sus obligaciones incluidas en la Directiva Nº 97/23/CE del 29 de mayo de 1997 traspuesta por el R.D. 769/1999.

This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, in case of modification to the equipment where this may affect conformity with the essential safety requirements or the prescribed conditions for use of the equipment, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the R.D. 769/1999.

Fecha del examen / *Date of examination* : **12/07/2011**  
 Inspector / *Surveyor*: **Roberto Garcia**

Realizado en / <i>Made at</i>	El (mes/día/año) / <i>On (MM/DD/YYYY)</i>	Aprobado y registrado en / <i>Approved and Recorded in</i>	Firmado por / <i>Signed by (Director Técnico / Technical Manager)</i>	Firma autorizada por el Organismo Notificado / <i>Signature authorised by Notified Body No 0056</i>
<b>Barcelona</b>	<b>12/07/2011</b>	<b>Spain</b>	<b>Javier Irigoyen</b>	

**Code d'enregistrement / Registration code: 2011/343.10,960/PSPA**

Este certificado está sujeto a los términos de las condiciones generales de actuación de ECA Entidad Colaboradora de la Administración, S.A.U. *This certificate is subject to the terms of ECA Entidad Colaboradora de la Administración, S.A.U. General Conditions of Service.*



**ANEXO al certificado de examen CE de diseño (módulo H1)**  
*Annex to the EC design-examination certificate (module H1)*

**N° CE-0056-PED-H1D-JCV-005-11-ESP**

**Lista de partes relevantes de la documentación técnica**  
*List of the relevant parts of the technical documentation*

**DESCRIPCIÓN DE EQUIPOS, PLANOS, CALCULOS, ESPECIFICACIÓN DE MATERIALES, ANALISIS DE RIESGOS, REQUISITOS ESENCIALES DE SEGURIDAD, DECLARACION DE CONFORMIDAD, MANUAL DE OPERACIONES Y INSTRUCCIONES DE MANEJO**

**Lista de versiones cubiertas (si aplica)**  
*List of the versions covered (where applicable)*

**Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

PS : **See annex (bar)**  
TS : **See annex (°C)**  
Volumen / Volume : **See annex (litros)**



**CERTIFICADO DE EXAMEN CE DEL DISEÑO**  
**EC DESIGN-EXAMINATION CERTIFICATE**

**N° CE-0056-PED-H1D-JCV-006-11-ESP**

ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., actuando dentro del campo de su notificación (Organismo Notificado nº 0056, y Acreditado por ENAC con acreditación nº OC-C/0190), **certifica** que el diseño del equipo a presión identificado a continuación, ha sido examinado con resultado satisfactorio según los requisitos del **módulo H1** del anexo III de la Directiva de Equipos a Presión 97/23/CE traspuesta por el RD 768/1999.

*ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., acting within the scope of its notification (Notified Body number 0056, and Accredited by ENAC with nº OC-C/190), certifies that the design of the equipment identified hereunder has been examined with satisfactory result against the provisions of annex III, module H1, of the Pressure Equipment Directive 97/23/EC transposed by the RD 769/1999.*

Fabricante (Nombre) / *Manufacturer (Name)*: **JC FÁBRICA DE VÁLVULAS, S.A.**

Dirección / *Address*: **c/ Cantabria, 2. Pol. Ind. Les Salines.,  
8830 Sant Boi de Llobregat,  
Barcelona SPAIN**

Marca comercial / *Branding Name* : **JC**

Descripción del equipo / *Equipment description*: **Válvulas de Globo / Globe Valve**

Identificación del diseño aprobado / *Identification of the approved design*: **Válvula de Globo / Globe Valve**

Versiones cubiertas por el diseño aprobado (si es aplicable) / *Versions covered by the approved design (where applicable)*: **See Annex**

Código ó Norma aplicada : **See Annex**  
*Code or Standard applied :*

Referencia al dossier de diseño del fabricante : **Technical Dossier Dated 10.7.2011 & 09.2011**  
*Reference of the manufacturer design dossier :*

Condiciones de validez (en su caso) : **Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

*Conditions of validity (where applicable) :*

Este certificado será presumido nulo y solo el fabricante soportará cualquier consecuencia derivada de su utilización, en caso de modificación realizada al equipo cuando esta pueda afectar a la conformidad con los requisitos esenciales de seguridad o prescriban las condiciones de su uso, y de forma general, cuando el fabricante no cumpla con cualquiera de sus obligaciones incluidas en la Directiva Nº 97/23/CE del 29 de mayo de 1997 traspuesta por el R.D. 769/1999.

This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, in case of modification to the equipment where this may affect conformity with the essential safety requirements or the prescribed conditions for use of the equipment, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the R.D. 769/1999.

Fecha del examen / *Date of examination* : **12/07/2011**  
 Inspector / *Surveyor*: **Roberto Garcia**

Realizado en / <i>Made at</i>	El (mes/día/año) / <i>On (MM/DD/YYYY)</i>	Aprobado y registrado en / <i>Approved and Recorded in</i>	Firmado por / <i>Signed by (Director Técnico / Technical Manager)</i>	Firma autorizada por el Organismo Notificado / <i>Signature authorised by Notified Body No 0056</i>
<b>Barcelona</b>	<b>12/07/2011</b>	<b>Spain</b>	<b>Javier Irigoyen</b>	

Code d'enregistrement / *Registration code*: 2011/343.10.1018/PSPA

Este certificado está sujeto a los términos de las condiciones generales de actuación de ECA Entidad Colaboradora de la Administración, S.A.U. *This certificate is subject to the terms of ECA Entidad Colaboradora de la Administración, S.A.U. General Conditions of Service.*



**ANEXO al certificado de examen CE de diseño (módulo H1)**  
*Annex to the EC design-examination certificate (module H1)*

**N° CE-0056-PED-H1D-JCV-006-11-ESP**

**Lista de partes relevantes de la documentación técnica**  
*List of the relevant parts of the technical documentation*

**DESCRIPCIÓN DE EQUIPOS, PLANOS, CALCULOS, ESPECIFICACIÓN DE MATERIALES, ANALISIS DE RIESGOS, REQUISITOS ESENCIALES DE SEGURIDAD, DECLARACION DE CONFORMIDAD, MANUAL DE OPERACIONES Y INSTRUCCIONES DE MANEJO**

**Lista de versiones cubiertas (si aplica)**  
*List of the versions covered (where applicable)*

**Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

PS : **See Annex (bar)**  
TS : **See Annex (°C)**  
Volumen / Volume : **See Annex (litros)**





**CERTIFICADO DE EXAMEN CE DEL DISEÑO**  
**EC DESIGN-EXAMINATION CERTIFICATE**

**N° CE-0056-PED-H1D-JCV-007-11-ESP**

ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., actuando dentro del campo de su notificación (Organismo Notificado nº 0056, y Acreditado por ENAC con acreditación nº OC-C/0190), **certifica** que el diseño del equipo a presión identificado a continuación, ha sido examinado con resultado satisfactorio según los requisitos del **módulo H1** del anexo III de la Directiva de Equipos a Presión 97/23/CE traspuesta por el RD 768/1999.

*ECA ENTIDAD COLABORADORA DE LA ADMINISTRACION S.A.U., acting within the scope of its notification (Notified Body number 0056, and Accredited by ENAC with nº OC-C/190), certifies that the design of the equipment identified hereunder has been examined with satisfactory result against the provisions of annex III, module H1, of the Pressure Equipment Directive 97/23/EC transposed by the RD 769/1999.*

Fabricante (Nombre) / *Manufacturer (Name)*: **JC FÁBRICA DE VÁLVULAS, S.A.**

Dirección / *Address*: **c/ Cantabria, 2. Pol. Ind. Les Salines.,  
8830 Sant Boi de Llobregat,  
Barcelona SPAIN**

Marca comercial / *Branding Name* : **JC**

Descripción del equipo / *Equipment description*: **Válvulas de Retención / Check Valves**

Identificación del diseño aprobado / *Identification of the approved design*: **Válvulas de Retención / Check Valves**

Versiones cubiertas por el diseño aprobado (*si es aplicable*) / *Versions covered by the approved design (where applicable)*: **See Annex**

Código ó Norma aplicada : **See Annex**  
*Code or Standard applied :*

Referencia al dossier de diseño del fabricante : **Technical Dossier Dated 10.7.2011 & 09.2011**  
*Reference of the manufacturer design dossier :*

Condiciones de validez (en su caso) : **Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

*Conditions of validity (where applicable) :*

Este certificado será presumido nulo y solo el fabricante soportará cualquier consecuencia derivada de su utilización, en caso de modificación realizada al equipo cuando esta pueda afectar a la conformidad con los requisitos esenciales de seguridad o prescriban las condiciones de su uso, y de forma general, cuando el fabricante no cumpla con cualquiera de sus obligaciones incluidas en la Directiva Nº 97/23/CE del 29 de mayo de 1997 traspuesta por el R.D. 769/1999.

This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, in case of modification to the equipment where this may affect conformity with the essential safety requirements or the prescribed conditions for use of the equipment, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the R.D. 769/1999.

Fecha del examen / *Date of examination* : **12/07/2011**  
 Inspector / *Surveyor*: **Roberto Garcia**

Realizado en / <i>Made at</i>	El (mes/día/año) / <i>On (MM/DD/YYYY)</i>	Aprobado y registrado en / <i>Approved and Recorded in</i>	Firmado por / <i>Signed by (Director Técnico / Technical Manager)</i>	Firma autorizada por el Organismo Notificado / <i>Signature authorised by Notified Body No 0056</i>
<b>Barcelona</b>	<b>12/07/2011</b>	<b>Spain</b>	<b>Javier Irigoyen</b>	

**Code d'enregistrement / Registration code: 2011/343.10,1154/PSPA**

Este certificado está sujeto a los términos de las condiciones generales de actuación de ECA Entidad Colaboradora de la Administración, S.A.U. *This certificate is subject to the terms of ECA Entidad Colaboradora de la Administración, S.A.U. General Conditions of Service.*



**ANEXO al certificado de examen CE de diseño (módulo H1)**  
*Annex to the EC design-examination certificate (module H1)*

**N° CE-0056-PED-H1D-JCV-007-11-ESP**

**Lista de partes relevantes de la documentación técnica**  
*List of the relevant parts of the technical documentation*

**DESCRIPCIÓN DE EQUIPOS, PLANOS, CALCULOS, ESPECIFICACIÓN DE MATERIALES, ANALISIS DE RIESGOS, REQUISITOS ESENCIALES DE SEGURIDAD, DECLARACION DE CONFORMIDAD, MANUAL DE OPERACIONES Y INSTRUCCIONES DE MANEJO**

**Lista de versiones cubiertas (si aplica)**  
*List of the versions covered (where applicable)*

**Este certificado es válido solamente para el modelo y versión indicados en el anexo a este certificado y según las condiciones establecidas en el dossier indicado**

PS : **See Annex (bar)**  
TS : **See Annex (°C)**  
Volumen / Volume : **See Annex (litros)**



## 2.- Product Approvals



**L C I E**

## ACCUSE DE RECEPTION DE DEPOT DE DOSSIER

Appareils non électrique destiné à être utilisé en atmosphères explosibles  
**Directive 94/9/CE**

Numéro de l'accusé de réception  
**LCIE 05 AR 023**

Dossier : 60035219-534543

Appareil ou système de protection :

Vannes à bille JC – Séries SFF, SFR, EFR, SBF, SBR, STF, STR, M, WFF, WFR, WTF, WTR

Demandeur :  
**JC Fábrica de válvulas, s.a.**

Adresse :  
Cantabria, 2 – Pol. Ind. Les Salines  
08830 Sant Boi de Llobregat  
Barcelone - Espagne

Le document est émis conformément au chapitre II, article 8, point II de la Directive 94/9/CE.

Le LCIE, organisme notifié sous la référence 0081 conformément à l'article 9 de la directive 94/9/CE du Parlement Européen et du Conseil du 23 mars 1994, accuse réception du dossier constructeur « Vannes à bille JC – Séries SFF, SFR, EFR, SBF, SBR, STF, STR, M, WFF, WFR, WTF, WTR, dossier technique 201003/00 du 20 mai 2005 » défini dans l'annexe VIII, paragraphe 3 de ladite Directive.

Le document est valable jusqu'au 25 mai 2015.  
Il ne peut être ouvert que sur demande express des autorités.

Toute modification, à tout moment, du dossier enregistré, à la demande du constructeur est soumise à un nouveau dépôt et émission d'un nouvel accusé de réception.

Fontenay-aux-Roses, le 09 juin 2005

## ACKNOWLEDGEMENT OF FILE DEPOSIT

Non electrical equipment intended for use in potentially explosive atmospheres  
**Directive 94/9/EC**

Acknowledgment number  
**LCIE 05 AR 023**

Dossier : 60035219-534543

Equipment or protective system :

Ball valves JC – Series SFF, SFR, EFR, SBF, SBR, STF, STR, M, WFF, WFR, WTF, WTR

Applicant :  
**JC Fábrica de válvulas, s.a.**

Address :  
Cantabria, 2 – Pol. Ind. Les Salines  
08830 Sant Boi de Llobregat  
Barcelona - Spain

This document is issued in accordance with the relevant Chapter II, article 8, point ii of the Directive 94/9/EC.

LCIE, notified body number 0081 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and Council of 23 March 1994, acknowledges receipt of the manufacturer « Ball valves JC – Series SFF, SFR, EFR, SBF, SBR, STF, STR, M, WFF, WFR, WTF, WTR, technical file 201003/00 dated on May 20<sup>th</sup> 2005 » as defined in annex VIII, paragraph 3 of the said Directive.

This document is valid until May 25<sup>th</sup> 2015.  
It can only be opened upon explicit request of the authorities.

Any modification of the registered file at the request of the manufacturer is subject to a new file deposit and issuance of a new acknowledgement receipt.

Le Directeur de l'organisme certificateur  
Manager of the certification body

Par délégation, Marc Gilloux  
Timbre sec / Dry seal

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Laboratoire Central	BP 8	Fax : +33 1 40 95 86 56	au capital de 15 745 984 €
des Industries Electriques	92266 Fontenay-aux-Roses cedex	contact@lcie.fr	RCS Nanterre B 408 363 174
Une société de Bureau Veritas	France	www.lcie.fr	



**LCIE**

## ACCUSE DE RECEPTION DE DEPOT DE DOSSIER

Appareils non électrique destiné à être utilisé en atmosphères explosibles  
**Directive 94/9/CE**

Numéro de l'accusé de réception  
**LCIE 05 AR 044**

Dossier : 60040332-540245

Appareil ou système de protection :

Gate, Globe and Check valves

Demandeur :

**JC FABRICA DE VALVULAS, s.a.**

Adresse :

Cantabria, 2 – Pol. Ind. Les Salines  
08830 Sant Boi de Llobregat  
Barcelone - Espagne

Le document est émis conformément au chapitre II, article 8, point II de la Directive 94/9/CE.

Le LCIE, organisme notifié sous la référence 0081 conformément à l'article 9 de la directive 94/9/CE du Parlement Européen et du Conseil du 23 mars 1994, accuse réception du dossier constructeur « dossier technique Ref. 151005/00 en date du 15 novembre 2005 » défini dans l'annexe VIII, paragraphe 3 de ladite Directive.

Le document est **valable jusqu'au 15 novembre 2015.**

Il ne peut être ouvert que sur demande express des autorités.

Toute modification, à tout moment, du dossier enregistré, à la demande du constructeur est soumise à un nouveau dépôt et émission d'un nouvel accusé de réception.

## ACKNOWLEDGEMENT OF FILE DEPOSIT

Non electrical equipment intended for use in potentially explosive atmospheres  
**Directive 94/9/EC**

Acknowledgment number  
**LCIE 05 AR 044**

Dossier : 60040332-540245

Equipment or protective system :

Gate, Globe and Check valves

Applicant :

**JC FABRICA DE VALVULAS, s.a.**

Address :

Cantabria, 2 – Pol. Ind. Les Salines  
08830 Sant Boi de Llobregat  
Barcelone - Espagne

This document is issued in accordance with the relevant Chapter II, article 8, point ii of the Directive 94/9/EC.

LCIE, notified body number 0081 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and Council of 23 March 1994, acknowledges receipt of the manufacturer file « Technical document Ref. 151005/00 dated on November, 15<sup>th</sup> 2005 » as defined in annex VIII, paragraph 3 of the said Directive.

This document is **valid until November 15<sup>th</sup> 2015.**

It can only be opened upon explicit request of the authorities.

Any modification of the registered file at the request of the manufacturer is subject to a new file deposit and issuance of a new acknowledgement receipt.

Fontenay-aux-Roses, le 24 novembre 2005

Directeur de l'organisme certificateur  
Manager of the certification body



**Marc GILLAUX**



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Laboratoire Central	BP 8	Fax : +33 1 40 95 80 56	au capital de 15 745 984 €
des Industries Electriques	92266 Fontenay-aux-Roses cedex	contact@lcie.fr	RCS Nanterre B 408 363 174
Une société de Bureau Veritas	France	www.lcie.fr	

Rev A  
Page 1/1



Puteaux, October the 1<sup>st</sup>, 2008

## Assessment of JC Ball Valves

### SIL level

Under the request of JC VALVES, BUREAU VERITAS has carried an assessment of the PFD/PFH reached by JC VALVES Ball valves based on the field experience obtained from 2002 to 2006 by JC VALVES.

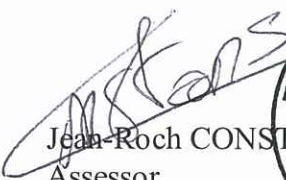
The assessment details are given in the report referenced: "JRC/BN/CB859/08/R/267/3 Closing" & "JRC/BN/CB859/08/R/268/3 Opening".

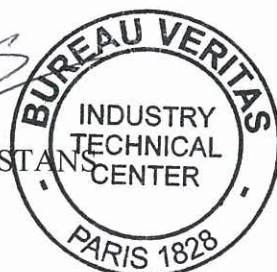
On the basis of this report, BUREAU VERITAS has assessed that the JC ball valves reach PFD/PFH (IEC 61508 PART 2) equivalent to:

## SIL 3

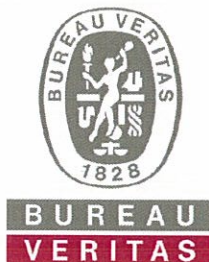
for closing or opening function when used with adequate actuators and following the required instructions.

This assessment is valid for ball valves type 5xx / 7xx.

  
Jean-Roch CONSTANS  
Assessor



Bureau Veritas  
Centre Technique Industrie (CTI)  
Immeuble « Le Guillaumet »  
60, Avenue du Général de Gaulle  
92800 Puteaux  
Tél. : 01 47 14 33 88  
Fax : 01 47 14 33 99



Puteaux, October the 1<sup>st</sup>, 2008

## Assessment of JC Trunnion Valves

### SIL level

Under the request of JC VALVES, BUREAU VERITAS has carried an assessment of the PFD/PFH reached by JC VALVES Trunnion valves based on the field experience obtained from 2002 to 2006 by JC VALVES.

The assessment details are given in the report referenced: "JRC/BN/CB859/08/R/267/2".

On the basis of this report, BUREAU VERITAS has assessed that the JC trunnion valves reach PFD/PFH (IEC 61508 PART 2) equivalent to:

## SIL 3

for closing or opening function when used with actuators and following the required instructions.

This assessment is valid for trunnion valves type 15xx, 25xx and 6xxx/7xxx.

**BUREAU VERITAS**

Jean-Roch CONSTANS  
Assessor



**American  
Petroleum  
Institute**



2010-084

## **Certificate of Authority to use the Official API Monogram**

**License Number: 6A-0975**

**ORIGINAL**

The American Petroleum Institute hereby grants to

**JC FABRICA DE VALVULAS, S.A.  
C. Cantabria, 2  
Pol. Ind. Les Salines  
Sant Boi De Llobregat, Barcelona  
Spain**

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

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **6A-0975**

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

The scope of this license includes the following product: Valves at PSL 1 and 2

QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: JULY 26, 2010  
Expiration Date: JULY 25, 2012**

**To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).**

American Petroleum Institute

Director of Global Industry Services





**American  
Petroleum  
Institute**



2010-084

## Certificate of Authority to use the Official API Monogram

**License Number: 6D-0197**

**ORIGINAL**

The American Petroleum Institute hereby grants to

**JC FABRICA DE VALVULAS, S.A.  
C. Cantabria, 2  
Pol. Ind. Les Salines  
Sant Boi De Llobregat, Barcelona  
Spain**

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

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **6D-0197**

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

The scope of this license includes the following products: Gate Valves; Plug Valves; Ball Valves; Check Valves

QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: JULY 25, 2009  
Expiration Date: JULY 25, 2012**

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).

American Petroleum Institute

Director of Global Industry Services



**American  
Petroleum  
Institute**



2010-084

## Certificate of Authority to use the Official API Monogram

License Number: 600-0016

ORIGINAL

The American Petroleum Institute hereby grants to

**JC FABRICA DE VALVULAS, S.A.**  
C. Cantabria, 2  
Pol. Ind. Les Salines  
Sant Boi De Llobregat, Barcelona  
Spain

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

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: 600-0016

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

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

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: JULY 25, 2009  
Expiration Date: JULY 25, 2012

To verify the authenticity of this license, go to [www.api.org/compositelist](http://www.api.org/compositelist).

American Petroleum Institute

Director of Global Industry Services

**FUGITIVE EMISSIONS TEST REPORT**

According Standard ISO 15848-1:2006

**1. Name and address of the valve manufacturer**JC Fábrica de válvulas S.A.  
C/ Cantabria Nº 2 Pol. Ind. Les Salines - 08930 - Sant Boi de Llobregat - Barcelona (Spain)**2. Valve size and pressure class**Size: 1 1/2" - Class: 300 Lb  
6" - Class: 300 Lb**3. Valve model number and style**Fig. 530 AIT DN- 1/2" ANSI-300 Serial Nr: 87183 - IT 3 - Drawing Nr 172  
Fig. 530 AIT DN- 6" ANSI-300 Serial Nr: 87159 - IT 8 - Drawing Nr 172**4. Method sample selection**

Random of the stock

**5. Diagram of the test rig and the data of the test equipment**

Annex I

**6. Date of test**Since 31/07/07 to 25/09/07 - 6"  
Since 25/09/07 to 4/10/07 - 1 1/2"**7. Reference standards**

ISO 15848-1:2006

**8. Test fluid**

Helium (97% purity)

**9. Valve performance classes achieved**Tightness class: BH  
Endurance class: CO3  
Temperature class: 200° C  
Adjustments of gland nut: 0**10. Valve mounting instructions**

Annex II

**11. Valve repacking before type test, if applicable**

No applicable

**12. Insulation of test, if applicable**

Glass-fiber and aluminium adhesive tape

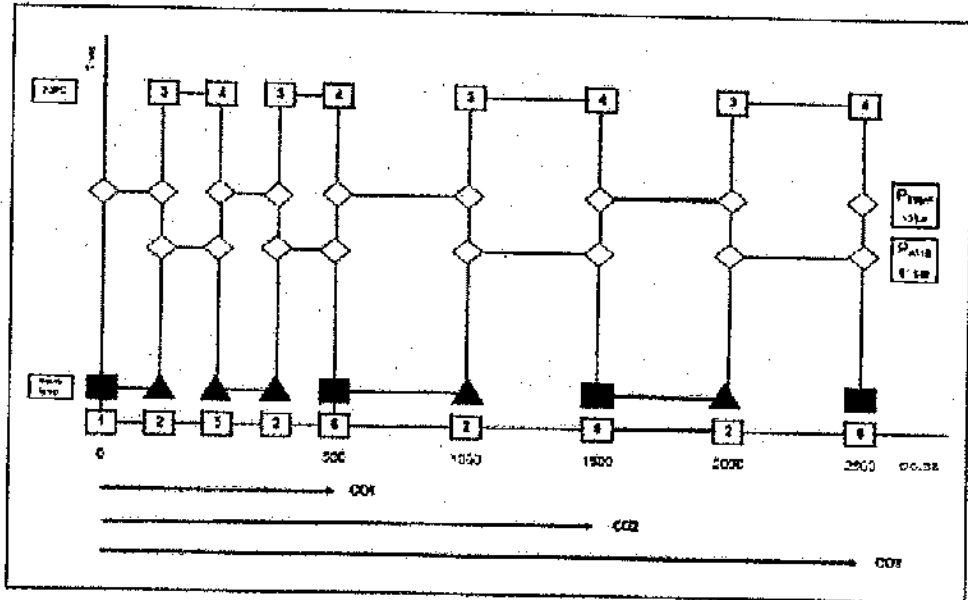
**13. Valve operation data**

✓ Valve operating torque:	1 1/2" Maximum torque 60 NM	6" Maximum torque 475 NM
✓ Gland nut tightening torque:	90 NM	40 NM
✓ Stroke/angle:	90°	90°

**14. Description of the actuator**

Pneumatic actuator ACTREG ASR80 (1 1/2") &amp; ASR1750 (6")

15. Copy of the test profile



16. Detailed results of the test  
Annex III

17. Qualification certificate  
Annex IV

The specific product data annex,  
Annex V:

- a) Cross sectional valve assembly drawing
- b) Bill of valve materials
- c) Stem or shaft seal description, dimensions and specification
- d) Body seal description, dimension and specification
- e) Material specification of stem seal components
- f) Hydrostatic test certificate

Responsible of the test

JC Quality Manager

SGS Inspector



SGS Tecnos, S.A.

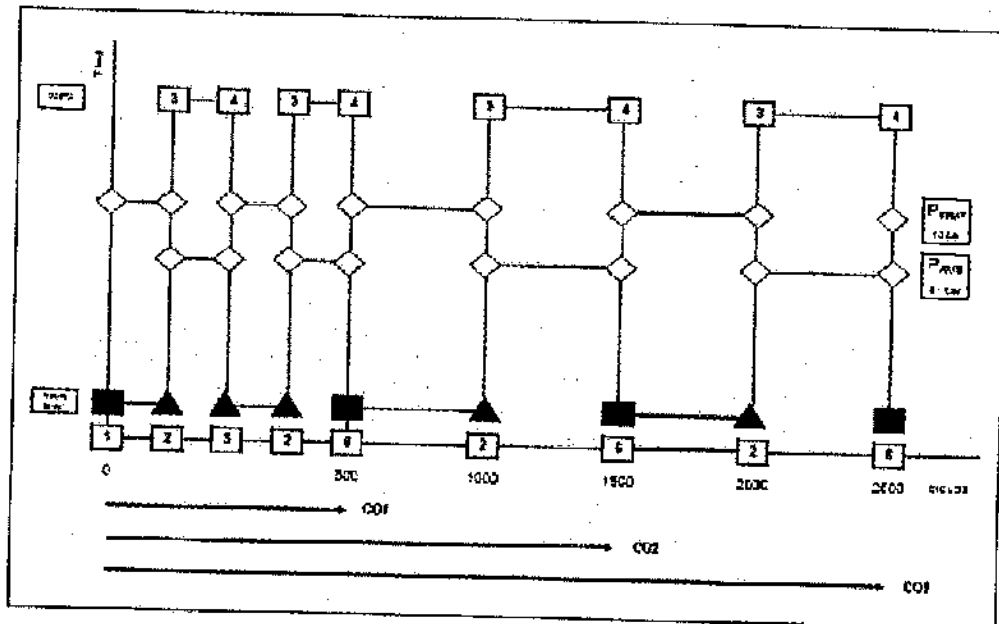
**FUGITIVE EMISSIONS TEST REPORT**

According Standard ISO 15848-1:2008

1. **Name and address of the valve manufacturer**  
JC Fábrica de válvulas S.A.  
C/ Cantabria Nº 2 Pol. Ind. Les Salines - 08830 - Sant Boi de Llobregat - Barcelona (Spain)
2. **Valve size and pressure class**  
Size: 1 1/2" - Class: 300 Lb  
6" - Class: 300 Lb
3. **Valve model number and style**  
Fig. 530 IIT DN- 1/2" ANSI-300 Serial Nr: 85997 - IT 6 - Drawing Nr 157  
Fig. 530 IIT DN- 6" ANSI-300 Serial Nr: 85795 - IT 4 - Drawing Nr 157
4. **Method sample selection**  
Random of the stock
5. **Diagram of the test rig and the data of the test equipment**  
Annex I
6. **Date of test**  
Since 23/10/07 to 29/10/07 - 1 1/2"  
Since 6/11/07 to 18/11/07 - 6"
7. **Reference standards**  
ISO 15848-1:2008
8. **Test fluid**  
Helium (97% purity)
9. **Valve performance classes achieved**  
Tightness class: CH  
Endurance class: CO3  
Temperature class: -46° C  
Adjustments of gland nut: 0
10. **Valve mounting instructions**  
Annex II
11. **Valve repacking before type test, if applicable**  
No applicable
12. **Insulation of test, if applicable**  
Glass-fiber and aluminium adhesive tape
13. **Valve operation data**

	<u>1 1/2"</u>	<u>6"</u>
✓ Valve operating torque:	Maximum torque 55 NM	Maximum torque 700 NM
✓ Gland nut tightening torque:	90 NM	40 NM
✓ Stroke/angle:	90°	90°
14. **Description of the actuator**  
Pneumatic actuator ACTREG ASR80 (1 1/2") & ASR1750 (6")

**15. Copy of the test profile**



**16. Detailed results of the test**  
Annex III

**17. Qualification certificate**  
Annex IV

**The specific product data annex,**  
Annex V:

- a) Cross sectional valve assembly drawing
- b) Bill of valve materials
- c) Stem or shaft seal description, dimensions and specification
- d) Body seal description, dimension and specification
- e) Material specification of stem seal components
- f) Hydrostatic test certificate

Responsible of the test

JC Quality Manager

SGS Inspector

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*



**SGS Tecnos, S.A.**



Industrie Service

**Bescheinigung der TA-Luft und VDI 2440,**  
 Ausgabe November 2010

**JC Fábrica de Válvulas, S.A.**  
**C/Cantabria, 2 – Poligono Industrial Les Salines**  
**E-08830 Sant Boi de Llobregat**

Hiermit wird bescheinigt, dass die Kugelhähne der Baureihe SFF, FIG: 516/540, 316/340 und 515/530 der genannten Firma gemäß TA-Luft und VDI 2440 (Ausgabe November 2000) überprüft und anerkannt wurden. Einzelheiten sind dem Untersuchungsbericht 1640800-II vom 29.07.2011 zu entnehmen.

**Das Produkt erfüllt die folgenden Anforderungen:**

**TA-Luft gemäß VDI 2440**

- Betriebsbedingungen: -20° bis 230°C
- Anzahl Spindelbewegungen: 100.000
- Oberflächenrauigkeit gemäß Zeichnungen
- Maße, Form und Lagetoleranzen gemäß Zeichnungen

Grundlage des Zertifikats ist das Prüfprogramm der TA-Luft, das den Leckagenachweis von Dichtverbindungen hinsichtlich der Einhaltung der spezifischen Leckagerate gemäß TA-Luft, VDI 2440 [ $\lambda \leq 1 \times 10^{-4}$  mbar x l/(s x m)] beinhaltet.

**Produktbeschreibung: Zweiteiliger Kugelhahn in Gehäusewerkstoffen 1.0619 und 1.4408**

- Fig: 316/516: DN 65 – 200 PN 16
- Fig: 340/540: DN 15 – 150 PN 40
- Fig: 515: DN 15(1/2") – 200 (8") Class 150 max. 16 bar
- Fig: 530: DN 15(1/2") – 150 (6") Class 300 max. 40 bar

Diese Bescheinigung ist gültig bis September 2014.

München, 29. Juli 2011



TÜV SÜD Industrie Service GmbH

*(Handwritten signature)*  
(H. Müller)

TÜV SÜD Industrie Service GmbH, Abteilung Werkstoff- und Schweißtechnik  
 Westendstrasse 199, 80686 München



Industrie Service

**Certificate of TA-Luft and VDI 2440,**  
 issued November 2000

**JC Fábrica de Válvulas, S.A.**  
**C/Cantabria, 2 - Poligono Industrial Les Salines**  
**E-08830 Sant Boi de Llobregat**

We herewith confirm that the mentioned company has been approved acc. to TA-Luft and VDI 2440 for ball valves series SFF FIG: 516/540, 316/340 and 515/530. Other relevant data are detailed in the report 1640800-II dated July 29<sup>th</sup>, 2011.

**The products meet the following requirements:**

**TA-Luft acc. to VDI 2440**

- Operating conditions: -20°C - 230°C
- Number of spindle movements: 100.000
- Surface roughness in acc. to drawings
- Dimensions, form and position tolerance in acc. to drawings

The certificate based on TA-Luft and VDI 2440 in order to demonstrate that tested sealing system can be considered as equivalent regarding with the requirements of TA- Luft 5.2.6.4 respectively VDI 2440 as the leakage rate is  $\leq 1 \times 10^{-4}$  mbar x l/(s x m)<sup>3</sup>.

**Product description: Ball valves in body materials 1.0619 and 1.4408**

- Fig: 316/516: DN 65 – 200 PN 16
- Fig: 340/540: DN 15 – 150 PN 40
- Fig: 515: DN 15(1/2") – 200 (8") Class 150 max. 16 bar
- Fig: 530: DN 15(1/2") – 150 (6") Class 300 max. 40 bar

This certificate is valid until September 2014.

Munich, July 29<sup>th</sup>, 2011



TÜV SÜD Industrie Service GmbH

*H. Müller*

(H. Müller)

TÜV SÜD Industrie Service GmbH, Abteilung Werkstoff- und Schweißtechnik  
 Westendstrasse 199, 80686 München



**РОССИЙСКАЯ ФЕДЕРАЦИЯ**  
**СЕРТИФИКАТ СООТВЕТСТВИЯ**  
(обязательная сертификация)

№ C-FR.ЛИЗ0.В.01026  
(номер сертификата соответствия)

ТР 0914042  
(учетный номер бланка)

**ЗАЯВИТЕЛЬ** Фирма "TRUELINE VOSTOK".  
(наименование и место нахождения заявителя) Адрес: 54 bis Jean-Baptiste LEBAS, Lille (59000), Франция. Телефон +33 6 14 02 62 88.  
факс +33 3 20 52 53 10.

**ИЗГОТОВИТЕЛЬ** Фирма "TRUELINE VOSTOK".  
(наименование и место нахождения изготовителя продукции) Адрес: 54 bis Jean-Baptiste LEBAS, Lille (59000), Франция  
Заводы фирмы-изготовителя см. приложение (бланк № 0202737).  
Телефон +33 6 14 02 62 88, факс +33 3 20 52 53 10.

**ОРГАН ПО СЕРТИФИКАЦИИ** ПРОДУКЦИИ "ИВАНОВО-СЕРТИФИКАТ" ООО "ИВАНОВСКИЙ ФОНД СЕРТИФИКАЦИИ"  
(наименование и местонахождение органа по сертификации, выдавшего сертификат соответствия) 153032, г. Иваново, ул. Станкостроителей, дом 1, тел. (4932) 23-97-48, факс (4932) 23-97-48, e-mail: mail(a)i-f-s.ru. ОГРН: 1043700088080. Аттестат рег. № РОСС RU.0001.11ЛИЗ0 выдан 01.03.2011 г. Федеральным агентством по техническому регулированию и метрологии.

**ПОДТВЕРЖДАЕТ, ЧТО ПРОДУКЦИЯ** Арматура трубопроводная запорно-регулирующая с комплектующими см. приложение (бланк № 0202736).  
(информация об объекте сертификации, позволяющая идентифицировать объект) Серийный выпуск.

код ОК 005 (ОКП)  
37 4000

**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ТЕХНИЧЕСКОГО РЕГЛАМЕНТА (ТЕХНИЧЕСКИХ РЕГЛАМЕНТОВ)** Технический регламент "О безопасности машин и оборудования" (Постановление Правительства РФ от 15.09.2009 № 753) см. приложение (бланк № 0202738).  
(наименование технического регламента (технических регламентов), на соответствие требованиям которого (которых) проводилась сертификация)

код ЕКПС

код ТН ВЭД России  
8481

**ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ (ИСПЫТАНИЯ) И ИЗМЕРЕНИЯ** Протоколы испытаний № 110520/П-01И - 110520/П-07И от 20.05.2011 г. - ИЛ "Ивановский Центр сертификации" ООО "Ивановский Фонд Сертификации" (Атт. аккр. РОСС RU.0001.21АЮ21), 153032, г. Иваново, ул. Станкостроителей, д. 1.

**ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ** Санитарно-эпидемиологическое заключение № 77.01.16.490.П.0771.97.09.08 от 15.09.2008 г., действительно до 15.09.2013 г., выданное Управлением Федеральной службы по надзору в сфере защиты прав потребителей и благополучия человека по г. Москве.  
(документы, представленные заявителем в орган по сертификации в качестве доказательства соответствия продукции требованиям технического регламента (технических регламентов)) Сертификат системы менеджмента качества ISO 9001:2008 № 0312006 от 22.02.2010 г., выданный ОССК "МСНА", Канада.

**СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ** с 20.05.2011 по 19.05.2016



Руководитель  
(заместитель руководителя)  
органа по сертификации  
подпись, инициалы, фамилия

А.П. Уткин

Эксперт (эксперты)  
подпись, инициалы, фамилия

С.А. Уткин

# РОССИЙСКАЯ ФЕДЕРАЦИЯ

## ПРИЛОЖЕНИЕ

к СЕРТИФИКАТУ СООТВЕТСТВИЯ № C-FR.АИ30.В.01026

(обязательная сертификация)

ТР 0202736

(учетный номер бланка)

### Перечень продукции, на которую распространяется действие сертификата соответствия

код ОК 005 (ОКП) код ТН ВЭД России	Наименование, типы, марки, модели однородной продукции, составные части изделия или комплекса	Обозначение документации, по которой выпускается продукция
37 4000 8481	Арматура трубопроводная запорно-регулирующая:	
	задвижки шиберные пожевые, типы: F81, F80; краны шаровые, тип BV; задвижки, типы: VC, VCBV, VCPS; вентили, типы: VG, VGBB, VGPS; затворы обратные поворотные, типы: VR, VRBC, VRPS; клапаны регулирующие (редукционный), тип PRV; клапаны предохранительные, тип PSV; клапаны дроссельные, тип BFLY.	
	Комплектующие: пневматические приводы ACTREG, типы: ADA, ASR; фланцы, тип FLG; фильтры, тип ST; прокладки, тип SL; компенсаторы из нержавеющей стали, тип RJS; компенсаторы резиновые, тип RJE; болты и гайки, тип BN.	



Руководитель  
(заместитель руководителя)  
органа по сертификации

подпись, инициалы, фамилия

Эксперт (эксперты)

подпись, инициалы, фамилия

*(Handwritten signatures in blue ink)*

А.П. Уткин

С.А. Уткин

# РОССИЙСКАЯ ФЕДЕРАЦИЯ

## ПРИЛОЖЕНИЕ

к СЕРТИФИКАТУ СООТВЕТСТВИЯ № C-FR.АИ30.В.01026

(обязательная сертификация)

ТР

**0202737**

(учетный номер бланка)

Перечень предприятий-изготовителей продукции, на которую распространяется действие сертификата соответствия, входящих в состав транснациональной компании

Полное наименование предприятия-изготовителя	Адрес (место нахождения)
"TRUELINE VOSTOK"	54 bis Boulevard Jean-Baptiste LEBAS , Lille (59000), Франция
"TRUELINE VALVE CORPORATION"	20201 Clark Graham H9X 3T5 BAIE D'URFE, Québec, Канада
"IC FABRICA DE VALVULAS s.a"	C/ Cantabria, 2 – Poligono industrial Les salines 08830 Sant Boi de Llobregat, Barcelona, Испания



Руководитель  
(заместитель руководителя)  
органа по сертификации

подпись, инициалы, фамилия

Эксперт (эксперты)

подпись, инициалы, фамилия

А.П. Уткин

С.А. Уткин

# РОССИЙСКАЯ ФЕДЕРАЦИЯ

## ПРИЛОЖЕНИЕ

к **СЕРТИФИКАТУ СООТВЕТСТВИЯ №** C-FR.АИ30.В.01026

(обязательная сертификация)

**ТР 0202738**

(учетный номер бланка)

Сведения о национальных стандартах (сводах правил), применяемых на добровольной основе для соблюдения требований технического регламента

Обозначение национального стандарта или свода правил	Наименование национального стандарта или свода правил	Подтверждаемые требования национального стандарта или свода правил
ГОСТ Р 53672-2009	Арматура трубопроводная. Общие требования безопасности	Стандарт в целом
ГОСТ 356-80	Арматура и детали трубопроводов. Давления условные, пробные и рабочие. Ряды	Стандарт в целом
ГОСТ 9544-2005	Арматура трубопроводная запорная. Классы и нормы герметичности затворов	Стандарт в целом
ГОСТ 5762-2002	Арматура трубопроводная промышленная. Задвижки на номинальное давление не более PN 250. Общие технические условия	Пп. 4.4-4.6, 5.1.3, 5.1.4, 5.1.5.9, 5.1.5.11, 5.1.5.16, 5.4.7.4
ГОСТ 21345-2005	Краны шаровые, конусные и цилиндрические на номинальное давление не более PN 250. Общие технические условия	Пп. 5.1.4.17, 5.1.4.22, разд. 6
ГОСТ 5761-2005	Клапаны на номинальное давление не более PN 250. Общие технические условия	Разд. 7
ГОСТ Р 53671-2009	Арматура трубопроводная. Затворы и клапаны обратные. Общие технические условия	Стандарт в целом
ГОСТ 12893-2005	Клапаны регулирующие односедельные, двухседельные и клеточные. Общие технические условия	Пп. 5.1, 5.3, разд. 7, 9
ГОСТ 31294-2005	Клапаны предохранительные прямого действия. Общие технические условия	Разд. 7
ГОСТ 11881-76	ГСП. Регуляторы, работающие без использования постороннего источника энергии. Общие технические условия	Пп. 1.2, 1.3, 1.5, 2.2-2.9, разд. 4, 5



Руководитель  
(заместитель руководителя)  
органа по сертификации  
подпись, инициалы, фамилия

А.П. Уткин

Эксперт (эксперты)  
подпись, инициалы, фамилия

С.А. Уткин

**SUMMARY OF JC BALL VALVES FIRE SAFE CERTIFICATES ACCORDING TO  
BS 6755 Part 2 - 1987 AND RANGE OF VALVES QUALIFIED**

**1) FULL BORE, SPLIT BODY, FLOATING BALL VALVES WITH SPIROMETALLIC  
GASKET**

<b>LLOYD'S CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
EDB 200569/1A1 EDB 200569/2A1	TESTED QUALIFIED	2 x 515 AIT 1/2" (DN 15) 540 AIT DN 15 to DN 25 340 AIT DN 15 to DN 25 515 AIT DN 15 to DN 25 530 AIT DN 15 to DN 25
EDB 000047/2 + EDB 000096/3	TESTED QUALIFIED:	2 x 515 AIT 3/4" (DN 20) 540 AIT DN 20 to DN 40 340 AIT DN 20 to DN 40 515 AIT DN 20 to DN 40 530 AIT DN 20 to DN 40
EDB 000159/1 + EDB 000159/2	TESTED QUALIFIED	2 x 515 AIT 2" (DN 50) 540 AIT DN 50 to DN 100 516 AIT DN 65 to DN 100 340 AIT DN 50 to DN 100 316 AIT DN 65 to DN 100 515 AIT DN 50 to DN 100 530 AIT DN 50 to DN 100
EDB 000103/1 + EDB 000103/2	TESTED QUALIFIED	2 x 515 IIT 2" (DN 50) ALL VALVES IIT IF IN AIT CONSTRUCTION THEY ARE QUALIFIED.
EDB 000171/1 + EDB 200441/1A1	TESTED QUALIFIED:	2 x 515 AIT 6" (DN 150) 540 AIT DN 150 to DN 300 525 AIT DN 200 to DN 300 516 AIT DN 200 to DN 300 340 AIT DN 150 to DN 300 325 AIT DN 200 to DN 300 316 AIT DN 200 to DN 300 515 AIT DN 150 to DN 300 530 AIT DN 150 to DN 300

**2) REDUCED BORE, END ENTRY, FLOATING BALL VALVES.**

<b>LLOYD'S CERTIFICATE</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
EDB 400111/1	TESTED QUALIFIED	2 x 715 AIT 1/2" (DN15) 715 AIT DN 15 to DN 25 730 AIT DN 15 to DN 25
EDB 000047/3 + EDB 000047/4	TESTED QUALIFIED	2 x 715 AIT 3/4" (DN 20) 715 AIT DN 20 to DN 40 730 AIT DN 20 to DN 40
EDB 000021/1 + EDB 000021/2	TESTED QUALIFIED	2 x 715 AIT 2" (DN 50) 715 AIT DN 50 to DN 100 730 AIT DN 50 to DN 100
EDB 000096/1 + EDB 000096/2	TESTED QUALIFIED	2 x 715 IIT 2" (DN 50) ALL VALVES IIT IF IN AIT CONSTRUCTION THEY ARE QUALIFIED.
EDB 000119/2 + EDB 100477/2	TESTED QUALIFIED	2 x 715 AIT 6" (DN 150) 715 AIT DN 150 to DN 300 730 AIT DN 150 to DN 300

**SUMMARY OF JC BALL VALVES FIRE SAFE CERTIFICATES ACCORDING BS 6755 P 2 / 87 & API 6FA & ISO 10497 / 92 AND RANGE OF VALVES QUALIFIED**

**1) FULL BORE, SPLIT BODY, FLOATING BALL VALVES**

**LLOYD'S CERTIFICATE N° VALVE TESTED AND RANGE QUALIFIED**

BCL 500929/1	TESTED	2 x 560 AIN 2"
	QUALIFIED	560 AIN DN 2" to 4"

**2) FULL & REDUCED BORE, WELDED BODY, FLOATING BALL VALVES**

BCL 500929/3	TESTED	1 x 413 AIT 1/2"
	QUALIFIED	Series 410 AIT DN 1/2" to 1" Series 400 AIT DN 3/8" to 3/4"

BCL 500929/2	TESTED	1 x 403 AIT 1"
	QUALIFIED	Series 410 AIT DN 1 1/4" to 2" Series 400 AIT DN 1" to 2"

**3) FULL & REDUCED BORE, SPLIT BODY, FULL-TRUNNION BALL VALVES**

BCL 500929/4	TESTED	2 x 2515 AIT 2" (DN 50)
	QUALIFIED	2515 AIT DN 2" to DN 4" 2530 AIT DN 2" to DN 4" 2615 AIT DN 3" to DN 6" 2630 AIT DN 3" to DN 6"

BCL 500929/6	TESTED	2 x 2515 AIT 6" (DN 150)
	QUALIFIED	2515 AIT DN 6" to DN 12" 2530 AIT DN 6" to DN 12" 2615 AIT DN 8" to DN 14" 2630 AIT DN 8" to DN 14"

BCL 9700816/1A	TESTED	2 x 2515 AIT 14" (DN 350)
	QUALIFIED	2515 AIT DN 14" to DN 28" 2530 AIT DN 14" to DN 28" 2615 AIT DN 16" to DN 32" 2630 AIT DN 16" to DN 32"

BCL 500929/5	TESTED	2 x 2560 AIT 2" (DN 50)
	QUALIFIED	2560 AIT DN 2" to DN 4" 2660 AIT DN 3" to DN 6"

BCL 500929/7	TESTED	2 x 2560 AIT 6" (DN 150)
	QUALIFIED	2560 AIT DN 6" to DN 12" 2660 AIT DN 8" to DN 14"

**4) FULL BORE, SPLIT BODY, SEMI-TRUNNION BALL VALVES****LLOYD'S CERTIFICATE N° VALVE TESTED AND RANGE QUALIFIED**

BCL 500929/8	TESTED	2 x 1515 AIT 6" (DN 150)
	QUALIFIED	1515 AIT DN 6" to DN 12" 1530 AIT DN 6" to DN 12" 1516 AIT DN 150 to DN 300 1525 AIT DN 200 to DN 300 1540 AIT DN 150 to DN 300 1316 AIT DN 150 to DN 300 1325 AIT DN 200 to DN 300 1340 AIT DN 150 to DN 300

**5) FULL BORE, SPLIT BODY, FLOATING BALL VALVES GRAPHITE BODY SEAL****LLOYD'S CERTIFICATE N° VALVE TESTED AND RANGE QUALIFIED**

BCL 600 742/3	TESTED	2 x 515 AIT ¾" (DN 20)
	QUALIFIED	515 AIT DN ¾" to DN 1 ½" 530 AIT DN ¾" to DN 1 ½" 540 AIT DN 20 to DN 40 340 AIT DN 20 to DN 40
BCL 600 742/2	TESTED	2 x 515 AIT 2" (DN 50)
	QUALIFIED	515 AIT DN 2" to DN 4" 530 AIT DN 2" to DN 4" 540 AIT DN 50 to DN 100 516 AIT DN 65 to DN 100 340 AIT DN 50 to DN 100 316 AIT DN 65 to DN 100
BCL 600 742/1	TESTED	2 x 515 AIT 6" (DN 150)
	QUALIFIED	515 AIT DN 6" to DN 12" 530 AIT DN 6" to DN 12" 540 AIT DN 150 to DN 300 525 AIT DN 200 to DN 300 516 AIT DN 200 to DN 300 340 AIT DN 150 to DN 300 325 AIT DN 200 to DN 300 316 AIT DN 200 to DN 300

**6) FULL & REDUCED BORE, FULL WELDED, FULL-TRUNNION BALL VALVES**

SGS 102/02	TESTED	1 x 7260 AIN DN 6" X 4" CLASS 600
	QUALIFIED	7260 AIN DN 6" up to 12" CLASS 300, 400, 600 6260 AIN DN 4" up to 8" CLASS 300, 400, 600
SGS 104 /04	TESTED	1 x 6260 AIV DN 16 " CLASS 600
	QUALIFIED	6260 AIV DN 16" and larger CLASS 600, 800, 900 7260 AIV DN 14" and larger CLASS 600, 800, 900



**SUMMARY OF JC BALL VALVES FIRE SAFE CERTIFICATES ACCORDING TO  
API 607 4<sup>th</sup> EDITION - 1993 AND RANGE OF VALVES QUALIFIED**

**1) FULL & REDUCED BORE, SPLIT BODY, FULL-TRUNNION BALL VALVES**

<b>LLOYD'S CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
BCL 9800596/1	TESTED QUALIFIED	1 x 2515 AIT 2" 2515 AIT DN 1 1/2" to DN 3" 2615 AIT DN 1 1/2" to DN 3" 2530 AIT DN 1 1/2" to DN 3" 2630 AIT DN 1 1/2" to DN 3"
BCL 9800596/2	TESTED QUALIFIED	1 x 2515 AIT 4" 2515 AIT DN 3" to DN 6" 2615 AIT DN 3" to DN 6" 2530 AIT DN 3" to DN 6" 2630 AIT DN 3" to DN 6"
BCL 9800603/2A1	TESTED QUALIFIED	1 x 2515 AIT 8" 2515 AIT DN 6" and larger 2615 AIT DN 6" and larger 2530 AIT DN 6" and larger 2630 AIT DN 6" and larger
BCL 9800603/4	TESTED QUALIFIED	1 x 2560 AIT 2" 2560 AIT DN 1 1/2" to DN 3" 2660 AIT DN 1 1/2" to DN 3" 2590 AIT DN 1 1/2" to DN 3" 2690 AIT DN 1 1/2" to DN 3"
BCL 9800547/2	TESTED QUALIFIED	1 x 2560 AIT 4" 2560 AIT DN 3" to DN 6" 2660 AIT DN 3" to DN 6" 2590 AIT DN 3" to DN 6" 2690 AIT DN 3" to DN 6"
BCL 9800786/1	TESTED QUALIFIED	1x 2560 AIT 8" 2560 AIT DN 8" and larger 2660 AIT DN 8" and larger 2590 AIT DN 8" and larger 2690 AIT DN 8" and larger

**2) FULL BORE, SPLIT BODY, FLOATING BALL VALVES**

<b>LLOYD'S CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
BCL 9800547/7	TESTED QUALIFIED	1 x 515 AIT 1/2" 515 AIT DN 1/4" to DN 3/4" 530 AIT DN 1/4" to DN 3/4"

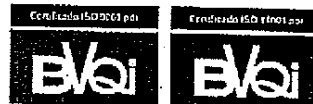
<b>LLOYD'S CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
BCL 9800547/6	TESTED QUALIFIED	1 x 515 AIT 1" 515 AIT DN 3/4" to DN 1 1/2" 530 AIT DN 3/4" to DN 1 1/2"
BCL 9800547/5A1	TESTED QUALIFIED	1 x 515 AIT 2" 515 AIT DN 1 1/2" to DN 3" 530 AIT DN 1 1/2" to DN 3"
BCL 9800547/1	TESTED QUALIFIED	1 x 515 AIT 4" 515 AIT DN 3" to DN 6" 530 AIT DN 3" to DN 6"
BCL 9800603/3	TESTED QUALIFIED	1 x 515 AIT 8" 515 AIT DN 6" and larger 530 AIT DN 6" and larger

### **3) REDUCED BORE, END ENTRY, FLOATING BALL VALVES**

<b>LLOYD'S CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
BCL 9800596/4	TESTED QUALIFIED	1 x 715 AIT 1/2" 715 AIT DN 1/4" to DN 3/4" 730 AIT DN 1/4" to DN 3/4"
BCL 9800596/3	TESTED QUALIFIED	1 x 715 AIT 1" 715 AIT DN 3/4" to DN 1 1/2" 730 AIT DN 3/4" to DN 1 1/2"
BCL 9800547/3	TESTED QUALIFIED	1 X 715 AIT 2" 715 AIT DN 1 1 / 2" to DN 3" 730 AIT DN 1 1 / 2" to DN 3" 5215 AIT DN 1 1 / 2 to DN 3" 5230 AIT DN 1 1 / 2 to DN 3"
BCL 9800547/4	TESTED QUALIFIED	1 X 715 AIT 4" 715 AIT DN 3" to DN 6" 730 AIT DN 3" to DN 6" 5215 AIT DN 3" TO DN 6" 5230 AIT DN 3" TO DN 6"
BCL 9800603/1	TESTED QUALIFIED	1 x 715 AIT 8" 715 AIT DN 6" and larger 730 AIT DN 6" and larger 5215 AIT DN 6" and larger 5230 AIT DN 6" and larger

**4) SPLIT BODY THREE PARTS TRUNNION BALL VALVES (See page 4 of 4)**

<b>SGS CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
SGS 222/04	TESTED QUALIFIED	1 x 2515 AIV 8" CLASS 150 2515 AIV DN 6" and larger 2530 AIV DN 6" and larger
SGS 262/04	TESTED QUALIFIED	1 x 2560 AIV 2" CLASS 600 2560 AIV DN 1 ½ " up to 3" class 600 2590 AIV DN 1 ½ " up to 3" class 900
SGS 294/04	TESTED QUALIFIED	1 x 2550 AIV 8" CLASS 1500 1500 # DN 6" AND LARGER. 2500 # DN 6" AND LARGER.
SGS 470/04	TESTED QUALIFIED	1 x 2560 AIV 8" CLASS 600 600 # DN 6" AND LARGER. 800 # DN 6" AND LARGER. 900 # DN 6" AND LARGER.
SGS 471/04	TESTED QUALIFIED	1 x 2560 AIV 4" CLASS 600 600 # DN 3", 4", 5", 6". 800 # DN 3", 4", 5", 6". 900 # DN 3", 4", 5", 6".
SGS 561/04	TESTED QUALIFIED	1x 2550 AIV 2" CLASS 1500 1500 DN 1 1/2", 2", 2 1/2", 3". 2500 DN 1 1/2", 2", 2 1/2", 3".
SGS 687/04	TESTED QUALIFIED	1x 2550 AIV 4" CLASS 1500 1500 DN 3", 4", 5", 6". 2500 DN 3", 4", 5", 6".
SGS 115/05	TESTED QUALIFIED	1x 2515 AIV 4" CLASS 150 150 DN 3", 4", 5", 6" 300 DN 3", 4", 5", 6"



**SPLIT BODY THREE PIECES TRUNNION BALL VALVES**

**FIG. DENOMINATION**

This note is to communicate the changes in the denomination of the "Split Body 3 pieces Trunnion Ball Valves"

At the beginning of the fabrication of the 3 piece valves, the following Figures were given as identification:

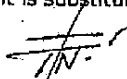
- Fig.2515 Full Bore valves 150#
- Fig.2530 Full Bore valves 300#
- Fig.2560 Full Bore valves 600#
- Fig.2590 Full Bore valves 900#
- Fig.2550 Full Bore valves 1500#

This codification of the valves was in conflict with the current codification of the split body construction 2 pieces, for this reason, they were re-codified as follows:

For **Split Body 3 pieces Trunnion FB Ball Valves:**

- 150# Fig. 6015
- 300# Fig. 6030
- 600# Fig. 6060
- 900# Fig. 6090
- 1500# Fig. 6050
- 2500# Fig. 6042

This document serves as an equivalence Certificate in the Figure denomination for valves of **3 pieces FB Trunnion Design**. Wherever the old denomination appears it is substituted for the new denomination of Fig.6000

  
José Tejedor  
Technical Dep. Manager  
14<sup>th</sup> November 2007

## SUMMARY OF JC BALL VALVES FIRE SAFE CERTIFICATES ACCORDING TO ISO 10497:2004 AND RANGE OF VALVES QUALIFIED

### 1) FULL BORE, SPLIT BODY, FLOATING BALL VALVES WITH SPIROMETALLIC PTFE + Graphite GASKET

SGS CERTIFICATE N°	VALVE TESTED AND RANGE QUALIFIED	
157/06 - 9587	TESTED QUALIFIED	1 x 515 AIT 2" (DN 50) 540 AIT DN 65 to DN 100 516 AIT DN 15 to DN 100 340 AIT DN 65 to DN 100 316 AIT DN 15 to DN 100 515 AIT DN 15 to DN 100 530 AIT DN 15 to DN 100
156/06 - 9587	TESTED QUALIFIED	1 x 515 IIT 3" (DN 80) ALL VALVES IIT IF IN AIT CONSTRUCTION THEY ARE QUALIFIED.
186/06 - 9587	TESTED QUALIFIED:	1 x 515 AIT 6" (DN 150) with gear Either with wrench or gear 540 AIT DN 125 to DN 150 516 AIT DN 125 to DN 200 340 AIT DN 125 to DN 150 316 AIT DN 125 to DN 200 515 AIT DN 150 to DN 200 530 AIT DN 150
206/08-9587	TESTED QUALIFIED:	1 x 560 IIRTFM 2" (DN-50) 560 IIRTFM DN-50 and below, 65, 80, 100.
173/08-9587	TESTED QUALIFIED:	1 x 560 LIRTFM 2" (DN-50) 560 LIRTFM DN-50 and below, 65, 80, 100

### 2) BRASIL FLOATING

SGS CERTIFICATE N°	VALVE TESTED AND RANGE QUALIFIED	
209/06-9587	TESTED	1x 515A I5 T 2", 2 1/2", 3", 4"
225/06-9587	TESTED	1x 515A I5 T 6"

**3) FULL AND REDUCED BORE FULL TRUNNION BALL VALVES**

<b>SGS CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
898/08-9587	TESTED QUALIFIED	1x 6015 L.I.T. 2" (DN-50) 6015 / 7015 LIT DN-50 TO DN-100 6030 / 7030 LIT DN-50 TO DN-100
897/08-9587	TESTED QUALIFIED	1x 6060 L.I.D.V. 2" (DN-50) 6060 / 7060 LIDV DN-50 TO DN-100 6080 / 7080 LIDV DN-50 TO DN-100 6090 / 7090 LIDV DN-50 TO DN-100
220/08-9587	TESTED QUALIFIED	1x 6015 L.I.T. 6" (DN-150) 6015 / 7015 LIT DN-150 TO DN-300 6030 / 7030 LIT DN-150 TO DN-300
259/08-9587	TESTED QUALIFIED	1x 6060 L.I.DV. 6" (DN-150) 6060 / 7060 LIDV DN-150 TO DN-300 6080 / 7080 LIDV DN-150 TO DN-300 6090 / 7090 LIDV DN-150 TO DN-300
457/08-9587	TESTED QUALIFIED	1x 6015 L.I.T. 8" (DN-200) 6015 / 7015 LIT DN-200 & Larger 6030 / 7030 LIT DN-200 & Larger
002/09-9587	TESTED QUALIFIED	1x 6060 L.I.RPTFE 8" (DN-200) 6060 / 7060 LIRPTFE DN-200 & Larger 6080 / 7080 LIRPTFE DN-200 & Larger 6090 / 7090 LIRPTFE DN-200 & Larger

**4) FULL BORE, SOFT SEATED BALL VALVES**

<b>SGS CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
1050/08-9587	TESTED QUALIFIED	1x 41501R IIRPTFE 2" (DN-50) 800# 41501R DN-50 and below, 65, 80, 100 – 800# / 900# / 1500#
1066/08-9587	TESTED QUALIFIED	1x 41501R LIRPTFE 2" (DN-50) 800# 41501R DN-50 and below, 65, 80, 100 – 800# / 900# / 1500#

**5) CAST TRUNNION FULL BORE**

<b>SGS CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
216/09-9587	TESTED	1x 2515 IIT 4" (DN-100) 150#
	QUALIFIED	2515 DN-50 & below to DN-200 & larger-150# 2530 DN-50 & below to DN-200 & larger-300#

**6) CGR VALVES**

370/09-9587	TESTED	1x VC150BB 8" 150#, WCB
	QUALIFIED	VC150BB DN-200 & larger, 150#, 300#
359/09-9587	TESTED	1x VC150BB 3" 150#, WCB
	QUALIFIED	VC150BB DN-80, 100, 125, 150 –150#, 300#

**7) JC Middle East. Fig. 650, 2 pieces, soft seated devlon. Floating ball.**

669/09-9587	TESTED	1 x 650 AIDV DN-2" 1500#
	QUALIFIED	2" & below 2 ½", 3", 4", 1500#, 2500# Rating: 260 / 420

**8) TL Series**

<b>SGS CERTIFICATE N°</b>	<b>VALVE TESTED AND RANGE QUALIFIED</b>	
297-1/09-9587	TESTED	1 X FIG. 315 AIT 2" 150#
	QUALIFIED	FIG 315 2" & below, 2 ½", 3" 4" Class- 150#; 300# PN-10, 16, 25, 40
375-1/09-9587	TESTED	1 X FIG. 315 AIT 4" 150#
	QUALIFIED	FIG 315 4"; 5"; 6"; 8" Class- 150#; 300# PN-10, 16, 25, 40
288-1/09-9587	TESTED	1 X FIG. 415 IIT 3" 150#
	QUALIFIED	FIG 415 3"; 4"; 5"; 6" Class- 150#; 300# PN-10, 16, 25, 40



## 3.- Contracts and References





## CONTRACTS AWARDED to JC Fábrica de válvulas, s.a. SINCE 1990 to 2010

### ALGERIA

**NAFTAL - Centre emplisseur d'ARZEW - 2002**  
119 Fig. 530 AIT DN 15 to DN 150 + 4 Fig. 1530 AIT DN 200

**POLYMED - Engineering: INTEDRA - High Density Polyethylene Plant - Skikda - 1998 & 1999**  
34 Fig. 515, 1515, 530, 560, 715 & 730 AIFv & IIFv DN 1" to DN 10" + 2 Fig. 2515 AAnS DN 20" + 21 Fig. 2515, 2560 & 2660 AIFv & AIS DN 2" to DN 10" + 4 Fig. 3560 IIM, with **ball and seats in S.S. Tp. 316 + HT-65**. All valves with pneumatic actuator ACTREG or BETTIS. **Operating time for DN 20" less than 2 seconds.**

### ARGENTINA

**YACIMIENTOS PETROLÍFEROS FISCALES - FOSTER WHEELER IBERIA, S.A. - La Plata and Luján de Cuyo plants - 1995 - 1996**  
120 Fig. 3530, 3560, 2530 & 2560 DN 1" to DN 4" **metal seated**, with ball in S.S. Tp. 316 ball **chromium carbide hardened** and S.S. Tp. 316 seats **stellite**, with Actreg pneumatic actuators, Factory Mutual listed solenoid valves and CSA certified switchboxes + 11 Fig. 2515 & 2560 DN 3" & 6" also **metal seated** with gear.

**FOSTER WHEELER IBERIA, S.A. - EASTMAN CHEMICAL ARGENTINA - PET Plant - 1996**  
10 Fig. 3515 DN ¾" to DN 3" **metal seated**, in stainless steel A351 Gr. CF8M, with ball and seats in S.S. Tp. 316 **CC 60 hardened**.

**TECHINT ENGENHARIA, S.A. - SINDTEC, S.A. - POLO ARARA PROJECT - 1998**  
58 Fig. 515 and 1515 DN 2" to DN 12" + 11 Fig. 515 IIT DN 2" & 4" **with cryogenic stem extension** + 3 Fig. 515 LIT DN 2" **with cryogenic stem extension** + 22 Fig. 530 and 1530 DN 2" to DN 10" + 10 Fig. 530 IIT DN 3" & DN 4" **with cryogenic stem extension** + 2 Fig. 530 LIT DN 2" **with cryogenic stem extension** + 3 Fig. 2560 IIT DN 2" & DN 6" **with cryogenic stem extension** + 5 Fig. 2560 LIT DN 2" & DN 8" **with cryogenic stem extension** (Job 24843, 24845 & 25796)

### BELGIUM

**BAYER RUBBER – Antwerp – 2003 & 2004**  
36 Fig. 3515 IIMPa DN 1 1/2" to DN 200

**COMPRIMO - AKZO - Vilvoorde - 1991**  
354 Fig. 512 AIT & IIT DN 20 to DN 80 + 45 Fig. 901 AIT DN 25 + 64 Fig. 900 IIT DN 50 & DN 80.

**COMPRIMO - AMOCO CHEMICAL COMPANY - HP vent gas treatment - 1992**  
32 Fig. 530 & 730 IIT DN ¾" to DN 6".

**DE SMET - Extraction Cargil - 1993**  
110 Fig. 512 AIT DN 15 to DN 100 + 202 Fig. 512 IIT DN 20 to DN 125 + 20 Fig. 512 IIS DN 20 to DN 100.

**DOW HALTERMANN – Antwerp - 1992 to 2005**  
More than 3800 Fig. 516 & 540 AIX1 & IIX1 DN 15 to DN 200 + 101 Fig. 3516 & 3540 AIM & IIM DN 25 TO DN 100.

**NIPPON SHOKUBAI EUROPE - INEOS N.V. - Engineering: Yokogawa Electric Corporation - Zwijndrecht - 1999 & 2000**  
123 Fig. 515 IIS & IIT DN 1/2" to DN 8" + 6 Fig. 915 IIT DN 1" & DN 1 1/2" + 2 Fig. 3560B IIM DN 1". All valves with ACTREG double acting pneumatic actuator, Westlock switchbox, solenoid valve and flow regulator.

**CHEVRON PHILIPS - Tessenderlo - 1991 to 2004**  
About 1350 Fig. 515, 530, 715 & 730 AIT & IIT DN ½" to DN 4".

**SOLVAY BENELUX, S.A. - Jemeppe - 1997 & 1998**  
More than 450 valves Fig. 512 & 513 AIT & IIT DN 15 to DN 150 PN 40 Fire-Safe **with combined PTFE and Graphite body gasket for Hydrogen Peroxide service.**

**TECHNIP - STINO - Gabriel Factory - Mons - Belgium - 1998**  
51 Fig. 515 IIT DN ¾" to 8" + 18 Fig. 530 IIT DN 1" to 6"

**UCB CHEMICALS - APEX Project - Plant of Oostende - 1992**  
396 Fig. 512 IIT in CF8/304 DN 20 to DN 200 + 35 Fig. 512 IIT in CF3M/316L DN 20 & DN 25 + 96 Fig. 512 IIT DN 20 to DN 80 + 1 Fig. 901 IIT DN 100.

**VERLIPAK - Mol - 1992**  
127 Fig. 512 AIT DN 50 to DN 200

### BRASIL

**AÇO MINAS GERAIS S.A. - Ouro Branco Minas Gerais - 2001**  
231 Fig. 515 AIT & AIRT 1 1/2" to 4" + 227 Fig. 560 AIRS DN 2" & 3" (Job 35392 & 35895)

**BAHIAGAS - Camaçari - 2000**  
6 Fig. 530 AIT DN 4"

**CEG - Natural Gas Distribution - Rio de Janeiro - 1998 to 2000**  
72 Fig. 420 AIT DN 4" to 8"



**CIBA Especialidades Químicas Ltda. - Polo Petroquímico de Bahía - 1999**  
6 Fig. 555 IIS DN 3" with ACTREG spring return pneumatic actuator

**CLARIANT Surfactantes y Especialidades - Suzano - Sao Paulo - 1998**  
1 516 AMT DN 100 Monel trim with ACTREG spring return pneumatic actuator

**COPESUL - Central de materia prima del Polo Petroquímico del Sur del Brasil - 1999**  
53 Fig. 515 & 530 AIT & LIT DN 2" to DN 6" + 48 Fig. 413 AIFv DN 1/2" to DN 1 1/2" with nipples API 5L sch. 160 + 387 Fig. 413 LF1.I.Fv DN 1/2" to DN 1 1/2" with nipples A333 sch. 160 + 2 Fig. 3403 IIM DN 1/2" with ball and seats in S.S. Tp. 316 + HT 65, nipples AISI 304L sch. 80

**GASCAT - Santa Catarina State Natural Gas distribution - 1999 & 2000**  
511 Fig. 515 & 530 AIT DN 2" to DN 8"

**IPIRANGA PETROQUIMICA S.A. - Triunfo - Rio Grande del Sur - 1999**  
7 Fig. 555 AIS DN 2" & DN 3"

**OPP PETROQUIMICA, S.A. - Triunfo - Rio Grande del Sur - 1999**  
2 Fig. 2530 IIM DN 2" with ball and seats in S.S. Tp. 316 + HT 65 with ACTREG double acting pneumatic actuator, solenoid valve and proximity sensors switch box + 2 Fig. 515 AIT DN 2"

**OPP POLIETILENOS, S.A. - OPP-TENENGE JOB - NATRON SB ENGINEERING CO. - SPHERILENEE PILOT PLANT - 1998**  
21 Fig. 515 AIT & IIT DN 2" to DN 4" + 20 Fig. 530 AIT DN 1/2" to DN 1 1/2" + 214 Fig. 530 IIT DN 1/2" to DN 4" + 15 Fig. 560 IIT DN 2" + 1 Fig. 3530 IIM DN 1" with ball and seats in S.S. Tp. 316 + CC 60 + 7 Fig. 2530 IIM DN 2" ball and seats in S.S. Tp. 316 + CC 60.  
28 of the valves supplied with ACTREG pneumatic actuator, solenoid valve

**OPP POLIPROPILENO, S.A. - Triunfo - Rio Grande del Sur - 1999**  
1 Fig. 2560 LIFv DN 6" RTJ with gear

#### **PETROBRAS - 1998 to 2004**

Different supplies of Fig. 515, 530, 560, 2515, 2530 & 2560 DN 1/2" to 14"

**UTC (TECHNIP COFLEXIP) – FELS SETAL – PLATFORM 50 COMPRESSION MODULE 2003 – 2004**  
42 Fig. 2515, 2530, 2560 & 2550 (Class 1500) AIT, IIT, AIM, LIM & IIM DN 2" to 18" (Job 40752)

**UTG Sul Capixaba – Engineering: ALUSA ENGENHARIA – Gas treatment Unit (UTG) 2008 to 2009**  
508 Fig. 41507R 1/2" to 2". 2 Fig. 2560 AIM 2" to 3". 27 Fig. 3407 AIM 1/2" to 1". 2 Fig. 3515 AIM 3". 9 Fig. 3515 LIM 2" to 3". 10 Fig. 3530 AIM 3".  
56 Fig. 515 AIT 2" to 4". (Jobs 52126 & 53435)

#### CHILE

**FOSTER WHEELER IBERIA, S.A. - PETROPOWER - Coker-cogeneration project - Talcahuano - 1997**

1 Fig. 530 AIT DN 4" + 2 Fig. 2560 AIT DN 2" & 3" all with ACTREG ASR actuator with declutchable gear, ASCO solenoid valve Factory Mutual approved and Westlock switch box + 1 Fig. 2560 AIT DN 8" with EL-O-MATIC spring return actuator with declutchable gear, ASCO solenoid valve Factory Mutual approved and Westlock switch box.

#### CHINA

**INTECSA - TECNIMONT**

**China Dushanzi Polypropylene Plant - 1993**

47 Fig. 515 AIT & IIT DN 1 1/2" to DN 8" + Fig. 530 AIT & IIT DN 1/2" to DN 6" + Fig. 770 IIS DN 1" all with Actreg spring return actuators and Ex-proof proximity switches.

**China Tianjin Polypropylene Plant - 1994**

47 Fig. 515 AIT & IIT DN 1 1/2" to DN 8" + Fig. 530 AIT & IIT DN 1/2" to DN 6" + Fig. 770 IIS DN 1" all with Actreg spring return actuators and Ex-proof proximity switches.

**PROYCE - BABCOCK & WILCOX ESPAÑOLA + GEC ALSTHOM STEIN INDUSTRIES (France)**

**China National Technical Import & Export Corp. - Yahekou Power Plant - 1995**

109 Fig. 515 AIT DN 1" to DN 6" + Fig. 530 AIT DN 1" to DN 4".

**RHÔNE POULENC - SILDAO PLANT - 1995**

More than 250 Fig. 513 AIT & IIT DN 15 to DN 100 PN 16 in Fire-Safe construction.

**SIDERNAVAL - TECNICAS REUNIDAS - Wuhan Iron and Steel Corp. Cold rolling mill NR. 3 - China - 1994**

99 Fig. 512 AIT DN 50 to DN 80 + 29 Fig. 512 IIT DN 15 to DN 50 degreased for Oxygen service.

**ENCORDIA ENGINEERING CO. LTD. - SINOPEC Zhongyuang Hua Dali Fine Chemical Company - 2001**

184 Fig. 530 AIT DN 2" to 6" (Job 34728)

**TECHNIP - EO/EG Plant - Fushun - China - 1991**

37 Fig. 530, 715 & 730 AIT & IIT DN 3/4" to DN 10".

**MAKIBER - XIAN NATURAL GAS STATION - 2004 & 2005**

71 Fig. 515 & 530 AIT DN 1" to DN 6" + 131 Fig. 2515 AAnT DN 8" to DN 32" (31 valves with BIFFI electric actuator) + 2 Fig. 2530 AAnT DN 16" (1 with BIFFI electric actuator) + 8 Fig. 6215 AAnT DN 16" & 20" + 5 Fig. 6215 AAnT DN 32" with BIFFI double acting pneumatic actuator. (Job 43994).

#### COSTA RICA

**RECOPE - TRAVERSA - Plantel El Alto - 1994**

128 Fig. 715 AIT DN 2" to DN 8"

**DENMARK****SSB-STOREBAELT I/S - GREAT BELT TUNNEL PROJECT - 1994**

Ball valves with wetted parts in **Avesta™ 254Smo** : 3 Fig. 512 DN 200 PN 25 + 18 Fig. 512 DN 100 PN 40 + 16 Fig. 512 DN 25 PN 40.  
43 Fig. 512 AIT DN 200 PN 40 (flanged PN 25) + 80 Fig. 512 AIT DN 20 to DN 150 PN 40.

**EGYPT****ASPPC - ALEXANDRIA SPECIALTY PETROLEUM PRODUCTS CO. Eng.: Técnicas Reunidas, S.A. - EL-MEX - ALEXANDRIA - 2001**

6 Fig. 3515 AIM DN 2" & 3" + 25 Fig. 3755 A.I.M. DN 2" to 4" with valves flanges dimensioned to 3", 4" & 6" with ACTREG spring return pneumatic actuators, ASCO solenoid valves and proximity detectors switch box. (Job 35171)

**FINLAND****OY AGA AB (LINDE Group) 2007**

2 Fig. 540 IIT DN 150 degreased for Oxygen service

**STORA Papermill - 2005**

1 Fig. 3516 IIMPa DN 200 e/gear + 6 Fig. 1516 IIMPa DN 250 and DN 300 w/gear.

**FRANCE****ELF ATOCHEM****- Pierre Benite and Saint Fons plants - 1991 to 2001**

Several projects with more than 1000 valves Fig. 515, 530, 715 and 730 AIT & IIT DN ½" to DN 8".

**- Villers Saint Paul Plant - 1995**

23 Fig. 715 AIT, AIS & IIT DN ¼" to DN 3" + 209 Fig. 515 & 530 AIT, AIS, IIT & IIS DN ½" to DN 4".

**I.C.I. FRANCE - 2003 & 2004**

20 Fig. 540 AIS Fire-Safe DN 15 to DN 50 + 24 Fig. 516 AIS Fire-Safe DN 80 + 23 Fig. 540 IIS Fire-Safe DN 15 to DN 50 + 32 Fig. 516 IIS Fire-Safe DN 80 to DN 150

**INEOS CHLORE - 2003 & 2004**

85 Fig. 540 AIT DN 15 to DN 50 + 2 Fig. 516 AIT DN 100 + 56 Fig. 340 AIFv DN 15 to DN 50 + 6 Fig. 316 AIFv DN 80

**MICHELIN - Bassens****1994**

Fig. 512 AIT PN 16 Fire Safe ball valves with pneumatic actuator: 4 DN 250 + 1 DN 200 + 3 DN 80 + 8 Fig. 715 AIT DN 6" with pneumatic actuator + 7 Fig. 512 AIT DN 250 PN 16 Fire Safe with gear.

**1997**

Fig. 512 AIT PN 16 Fire Safe ball valves: 5 DN 250 + 4 DN 250 with gear + 1 DN 200 with gear + Fig. 512 AIT ball valves: 3 DN 250 PN 25 + 8 DN 250 PN 16 with gear + 1 DN 200 PN 25 + Fig. 512 AIT ball valves with ACTREG ASR actuator: 3 DN 150 PN 16 + 8 DN 25 PN 40 + 10 DN 20 PN 40 + 12 DN 15 PN 40 + Fig. 512 AIT ball valves with ACTREG ADA actuator: 2 DN 200 PN 16 Fire Safe + 2 DN 150 PN 16 + 2 DN 100 PN 16 + 2 DN 100 PN 16 Fire Safe + 1 DN 80 PN 16 Fire Safe + 6 DN 25 PN 40 + Fig. 512 A.I.Pk. (PEEK seats) Fire Safe ball valves with ACTREG ASR actuator: 2 DN 125 PN 16 + 4 DN 100 PN 16 + 2 DN 80 PN 16 + 1 DN 50 PN 40.

**1998**

1 Fig. 1516 AIT DN 250 Fire Safe + 1 Fig. 1540 AIT DN 200 Fire Safe + 5 Fig. 540 AIT DN 15 to DN 100 + 2 Fig. 516 AIPk (Peek seats) Fire Safe DN 80 & DN 100

**1999**

9 Fig. 516 AIPk (Peek seats) Fire Safe DN 50 to DN 125 + 5 Fig. 516 AIT DN 80 & DN 150 Fire Safe + 65 Fig. 540 AIT DN 50 to DN 150 + 31 Fig. 516 AIT DN 80 to DN 200

**ORGAMOL - Saint Vulbas plant - Plaine de l'Ain - 1993 & 1994**

About 400 Fig. 513 AIT, AIS & IIT DN 15 to DN 80.

**PRIMAGAZ - 2003 & 2004**

7 Fig. 730 AIT DN 25 & DN 40 + 10 Fig. 530 AIT DN 50 to DN 100

**RHONE POULENC - Plants in Belle Etoile, Chalampé, Collonges, Colmar, La Madeleine, Le Peage du Roussillon, Pont de Claix, Saint Fons Silicones. C.I.D. CRIT in Decines - 1992 to 2001**

Different projects in the plants and one for R.P. China with Fig. 513 AIT & IIT from DN 15 to DN 200 + Fig. 515 & 530 from DN ½" to DN 6" + Fig. 512 AIT & IIT DN 15 to DN 150.

**TORAY PLASTICS EUROPE, S.A. - St. Maurice de Beynost - 1998**

1045 Fig. 515 IIT, IIFv & IIS DN 1/2" to DN 8" + 18 Fig. 515 AIT DN ½" & 6" + 5 Fig. 1515 AIT & IIFv DN 12" + 2 Fig. 2515 IIFv DN 14"

**TOTALGAZ - 2003 & 2004**

18 Fig. 715 AIT DN 80 & DN 100 + 152 Fig. 730 AIT DN 25 to DN 150 + 2 Fig. 915 AIT DN 100 X-port

**GERMANY****HOECHST AG - KNAPSACK - KÖLN - 1997**

3 Fig. 2516 IIM DN 300 PN 10 with gear. **Ball and seats hardened with CC-60.**

**LINDE KCA DRESDEN GmbH - Buna project - 1996**

232 Fig. 512 AIT DN 25 to DN 100 PN 40 + 518 Fig. 512 IIT DN 25 to DN 150 PN 40 + 6 Fig. 1512 AIT DN 200 PN 25 + 4 Fig. 1512 IIT PN 10. Valves supplied according to DIN 3230 Teil 3 or 6, 91 of them in Fire-Safe construction.



**KINETICS TECHNOLOGY INTERNATIONAL BV - EC ERDÖLCHEMIE GmbH - Köln-Worringen - 1996**  
148 Fig. 513 AIFv DN 25 & DN 40 PN 40 in DVGW certified construction

**GREECE**

**PUBLIC POWER CORPORATION - Small Lavrion Natural Gas Regulating Station - 1997**  
9 Fig. 1512 AIT DN 250 PN 40 gear operated + 2 Fig. 1512 AIT DN 300 PN 40 gear operated + 2 Fig. 1512 AIT DN 300 PN 40 with double acting pneumatic actuator, declutchable gear and solenoid valve Eex IA C T6. All valves with drain plug, vent and proximity detector switch box.

**HOLLAND**

**BASF NEDERLANDS, B.V. - Locatie Kleefse Waard - Arnhem - 1995**  
More than 300 Fig. 513 IIFv FIRE SAFE DN 15 to DN 25 + Fig. 512 IIFv FIRE SAFE DN 40 to DN 150.

**DOW CHEMICAL (NEDERLAND) B.V. - Terneuzen – 2005 to 2007**  
41 Fig. 3515 AIM DN 20 to DN 150 + 1 Fig. 3530 IIM DN 25 + 6 Fig. 2515 AIM DN 50 to DN 150 + 2 Fig. 2530 AIM DN 50 + 3 Fig. 2515 IIM DN 40 + 2 Fig. 2530 IIM DN 50

**DSM COATING RESINS NEDERLAND B.V. - Hoek van Holland - 2005**  
33 Fig. 516 & 540 AIT DN 15 to DN 80 + 407 Fig. 516 & 540 IIT DN 15 to DN 100 + 8 Fig. 553 IIS DN 50 + 47 Fig. 3516 & 3540 IIM DN 25 to DN 150 + 3 Fig. 3553 IIM DN 50

**DSM High Performance Fibers B.V. - DYNEEMA Europe Plant 4 - 2001**  
141 Fig. 530 IICG DN 1/2" to DN 3" + 2 Fig. 530 AIT DN 2" in DVGW construction

**FOSTER WHEELER IBERIA, S.A. - EASTMAN CHEMICAL NETHERLANDS - PET Plant - 1996**  
10 Fig. 3515 IIM DN 3/4" to DN 3", with ball and seats in S.S. Tp. 316 chromium carbide hardened.

**FUJI PHOTO FILM B.V. - EP-3 Project - Tilburg – 1990 & 1991**  
About 1055 Fig. 512 IIT DN 15 to DN 200 + 5 Fig. 900 IIT DN 50 all degreased to FUJI specs.

**HOOGOVS STEEL MILL - Ijmuiden - 1995**  
2 Fig. 1515 AIT DN 12" + 21 Fig. 1530 AIT DN 10" + 34 Fig. 530 AIT DN 1" to DN 6" + 29 Fig. 512 AIT DN 25 & 32

**PLACID INTERNATIONAL OIL LTD. - OFFSHORE PLATFORM - 1994**  
2 Fig. 901 AIT DN 12" with gear + 2 Fig. 901 AIT DN 6" with wrench.

**TEBODIN - Metablen Project - Flessengen - 1990**  
1056 Fig. 512 IIT DN 15 to DN 200

**VOPAK TERMINAL VLISSINGEN B.V. – 2007 to 2008**  
50 Fig. 530 IIT DN 40 to DN 150 + 24 Fig. 1530 DN 200 with all external pieces in S.S. Tp. 316 and Inconel Belleville washers.

**INDONESIA**

**PT WILMAR BIOENERGI INDONESIA – Bio-Diesel Plant - 2006**  
653 Fig. 540 Y 516 IIFv DN 25 to DN 4"

**VOEST-ALPINE INDUSTRIEANLAGENBAU GesmbH - P.T. Krakatau Steel - 1992**  
104 Fig. 512 & 513 AIT Fire Safe DN 15 to DN 200 + 31 Fig. 513 AIT DN 50 to DN 150 + 87 Fig. 512 & 513 IIT DN 15 to DN 150 degreased.

**VIRGINIA OIL CO. - Batam - 1994**  
101 Fig. 2515, 2530 & 2560 AIT DN 2" to DN 4"

**IRAN**

**KALA LTD. - N.I.O.C. Fields - Tehran - 1992**  
26 Fig. 515, 530 730 AIT DN 2" to DN 12" with Lloyd's Register inspection.

**DEGREMONT - TABRIZ PETROCHEMICAL CO. - IRAN - 1994 & 1995.**  
123 Fig. 715 AIT & IIT DN 1/2" to DN 2", 730 IIT DN 6" & DN 10", 515 AIT & IIT DN 1 1/2" to DN 6".

**INTECSA UHDE, S.A. - PIDECE - High Density Poly Ethylene - Bandar Imam - 1999 & 2000**  
219 Fig. 515 & 1515 AIT, AIS & IIT DN 1/2" to DN 10" + 5 Fig. 555 AIS DN 2" + 279 Fig. 530 & 1530 AIT, LIT, IIS & IIT DN 3/4" to DN 10" + 8 Fig. 2530 AIT DN 14". 69 valves with spring return ACTREG and BIFFI pneumatic actuators, solenoid valve, switch box, filter, pressure and flow regulator.

**MDPC (Mashal Daran Petrochemical Co.) – Engineering: Enerchim & Técnicas Reunidas, S.A. – First Lab Plant – Kermanshah – 2002 & 2003**  
107 Fig. 515 & 530 AIT, AIS, AIPK, LIT & IIT DN 3/4" to DN 200 + 8 Fig. 560 & 2560 AIT & AIS DN 50 to DN 200 + 9 Fig. 3515 & 3530 AIM, I.C.T.C.T. & I.E.E. DN 25 to DN 200 + 4 Fig. 915 AIT DN 40 & 50. (Job 37459 & 37714)  
All the valves with spring return pneumatic actuator ACTREG or BIFFI, ASCO Eex d IIC T5 solenoid valve, ACTREG Eex ia switch box and FISHER air set.

**N.I.O.C. CENTRAL OIL FIELDS CO. - 2005**  
106 Fig. 515, 560 & 660 AIT DN 50 to DN 150 + 113 Fig. 715 AIT DN 50 to DN 150 + 11 Fig. 2515, 2560 & 2590 AIT DN 100 to DN 250 + 72 Fig. 2615, 2660, 2690 Y 2650 AIT DN 50 to DN 450 (Job 45030)

**N.I.O.C. SOUTH PARS GAS FIELD DEVELOPMENT PHASES 13, 14, 15, 16, 17 & 18 – 2007 to 2009****PETROIRAN DEVELOPMENT CO. (PEDCO) - NIOC - AMIDCO - Engineering: TECHNIP - Salman Sirri gas compression facilities - 2004 & 2005**

56 Fig. 515 IITFM DN 1" + 291 Fig. 650 IIPK DN 3/4" & 1" flanged Class 1500 RTJ. 10% of the S.S. valves tested at -100°C certified by Bureau Veritas.

178 Fig. 650 AIPK DN 1" + 157 Fig. 2650 AIPK DN 2" to DN 12" + 48 Fig. 2550 AIPK DN 4" to DN 12". All C.S. valves flanged Class 1500 RTJ. (Jobs 44731 & 44732)

**ITALY****ENVIROIL ITALIA SpA - GELA – SICILIA - 2003**

393 Fig. 516 & 540 AIT & AIS DN 20 to DN 100 + 15 Fig. 516 IIT DN 100 + 24 Fig. 516 AICT DN 50 to DN 150 with PTFE cavity filler, ACTREG spring return pneumatic actuator, ASCO solenoid valve Eex d IIC T5 and explosion proof limit switches box + 8 Fig. 3516 AIM & IIM DN 80 to DN 150 + 4 Fig. 3402 IIMDR DN 40 + 96 Fig. 512 HIT DN 50 to DN 150. (Job 41022)

**KUWAIT****KUWAIT OIL COMPANY - 1998**

12 Fig. 515 AAT DN 2" & DN 3" + 18 Fig. 2515 AAT DN 10" + 13 Fig. 2530 AAT DN 4" to 8" + 3 Fig. 2560 AAT DN 6 to DN 12". All valves with Interlocking system manufactured in accordance with KOC Stds. (Job 25875)

834 Fig. 2560 AAT DN 4" in accordance with KOC Stds. (Job 26501)

**LATVIA****PUMPTechnique - 2001**

22 Fig. 3515 AIM DN 2" + 22 Fig. 2515 AIM DN 8". All valves with CF8M + HT-65 ball and S.S. 316 + HT-65 seats.

**MALAYSIA****MALAYSIA SHIPYARD AND ENGINEERING SDN BHD - 1994**

40 Fig. 515 AIT DN 3" + 40 Fig. 515 AIT DN 8" (30 with American Bureau of Shipping and 10 with Bureau Veritas inspection)

**MEXICO****GEC ALSTHOM****A.L.M. Power Plant Groups 3 & 4 - Mexico - 1992**

20 Fig. 515 AIT DN 6" to DN 12" + 1 Fig. 515 IIT DN 3"

**A.L.M. Power Plant Groups 5 & 6 - Mexico - 1994**

39 Fig. 515 AIT DN 3" to DN 12" + 17 Fig. 515 IIT DN 3"

**PEMEX – ENGINEERING: DURO FELGUERA, S.A. - EXTENSION FO CHLORINATED DERIVATES PLANT III – PETROQUIMICA PAJARITOS – 2002 & 2003**

407 valves including 59 Fig. 411 MMFv 1/2" & 3/4" + 136 Fig. 715 & 730 AIFv & IIFv 3/4" to 6" + 147 Fig. 715 & 730 LMFv & IMFv 1/2" to 8" + 58 Fig. 530 MMFv 3/4" to 6" (Job 39074, 39176, 39177 & 41411)

**MOROCCO****PROYCE - BABCOCK & WILCOX ESPAÑOLA + GEC ALSTHOM STEIN INDUSTRIES (France)****Jorf La Sfar Power Plant - Morocco - 1993**

75 Fig. 512 AIT DN 25 to DN 300 + Fig. 530 AIT & IIT DN 2" to DN 8" + Fig. 901 AIT DN 150.

**NIGERIA****GASLINK NIGERIA LTD. - Ikeja Distribution Network - 2000 & 2001**

8 Fig. 2515 A.CA6NM.T DN 14" (7 w/gear & 1 with Biffi actuator) + 2 Fig. 2515 A.CA15.T DN 10" w/gear + 62 Fig. 715 A.CA15.T DN 2" to 8" (Job 32328) + 15 Fig. 715 AIT DN 2" to 6" (Job 35052)

**NORWAY****PHILIPS PETROLEUM COMPANY - Ekofisk 2/4 T Project - Norway - 1991**

31 Fig. 515 and 715 DN 2" to DN 8" in UNS S32760 with UNS S31254 stem.

**S E & C KVAERNER EXXON - STORK ENGINEERING - 1998**

41 Fig. 515 and 530 AIT & AIS DN 1" to DN 4" + 30 Fig. 515 and 530 IIT & IIS DN 1" to DN 8" + 74 Fig. 515 and 530 LIT & LIS DN 2" to DN 8" + 3 Fig. 715 AIT DN 8" + 19 Fig. 715 and 730 LIS DN 3" to DN 6" + 4 Fig. 715 IIS DN 3" & 4" + 2 Fig. 1530 LIS 8" (Job 24551)

**KVAERNER ENERGY - 1995**

130 Fig. 512 AIT DN 50 to DN 100 PN 40 + 32 Fig. 512 IIT DN 40 + 14 Fig. 560 AIN DN 3" drilled PN 63 + 11 Fig. 560 AIN DN 2" drilled PN 100 + 26 Fig. 560 DN 3" drilled PN 100.

**OMAN****OCCIDENTAL OF OMAN, INC. -Safah Field - 1997**

54 Fig. 2560 AIN DN 4" (Job. 20603)

**M.I.S. - OCCIDENTAL OF OMAN, INC. - 1997**

45 Fig. 2515 AIT DN 2" to 12" + 8 Fig. 2530 LIT DN 3"

**OCCIDENTAL OF OMAN, INC. - 1998**

108 Fig. 2660 DN 2" to 8" (Job 24939)



### PAKISTAN

#### **AIRSYS INT. – Lahore International Airport - 2001**

15 Fig. 2515 AIT DN 16" with gear. ASTM materials with additional requirements AD W5, AD W7 and Charpy test at -10°C

### PERU

#### **REPSOL YPF Engineering: Technip France, Intecsa Uhde and CYMI – La Pampilla Refinery – 2003 – 2004**

15 Fig. 515 & 530 AIT & AIS DN 1" to 6" + 3 Fig. 2515 & 2530 AIT DN 4" to 10" + 1 Fig. 3515 AIM DN 3" + 14 Fig. 2530 AIM DN 1 1/2" to 8" + 10 Fig. 2530 & 2560 C5.I.M. DN 10" to 18" all with ACTREG or BIFFI spring return pneumatic actuators and control equipment. (Job 40742)

#### **REPSOL YPF Engineering: Technip Iberia – La Pampilla Refinery – 2010**

6 Fig. 515 AICG DN 1" to 2" + 1 Fig. 2530 IIM DN 3" AE + 1 Fig. VC200300 DN 8" + 1 Fig. VG80300 DN 3" all with ACTREG and CENTORK spring return pneumatic actuators (1/4 turn design → ball valves and linear design → gate & globe valves) and control equipment. (Jobs 54414 & 54646 & 54856).

### POLAND

#### **ABB DOLMEL Ltd. - Wroclaw - 1997**

21 Fig. 512 AIT with **cavity filler**, DN 50 to DN 150 PN 16 with ACTREG double acting pneumatic actuator and limit switches (4 pcs with pneumatic positioner)

#### **ANWIL S.A. WLOCLAWEK**

##### ➤ **Vinyle Chloride Monomer expansion and modernization project - Wloclawek - 2000 & 2001**

1441 Fig. 515 AIT, AIFv & AIS DN 1/2" to 4" + 110 Fig. 515 AMT DN 1/2" to 3" (**Monel trim**) + 50 Fig. 3515 AIM DN 3/4" to 4" (**HT-65 ball and seats**) + 619 Fig. 530 AIS DN 1/2" to 6" + 40 Fig. 530 AMT DN 3/4" to 6" (**Monel trim**) + 32 Fig. 530 LITfm DN 1/2" to 6" + 231 Fig. 530 IIS DN 1/2" to 3" + 12 Fig. 715 AMT DN 6" & 8" (**Monel trim**) + 1 Fig. 1730 LITfm DN 10"

##### ➤ **2002 Polypropylene**

11 Fig. 515 I.I.CT. DN 1/2" & 3"

##### ➤ **2009 Complex modernization**

85 Fig. 715 & 730 LMS 3/4" to 3" (**Monel trim**)

#### **GEOTERMIA PYRZYCE - Hone & Olsen I/S engineering - 1995**

22 Fig. 512 AIT DN 200 PN 16 + DN 200 PN 40 + DN 250 PN 40.

#### **INTERNATIONAL PAPER POLAND - 2001**

2 Fig. 3516 IIMPA DN 200 + 1 Fig. 1516 IIMPA DN 250 (Job 34974)

#### **MOWTA - Unknown end user - 2002**

103 Fig. 555 AIS DN 3/4" to 1 1/2" + 2 Fig. 570 AIS DN 1" + 2 Fig. 580 AIS DN 20 & 25

#### **PKN ORLEN, S.A. Engineering: ABB Lummus Global GmbH – Olefins Plant II Revamp – Plock – 2003 & 2004**

808 Fig. 715, 730, 1730 & 530 AIFv DN 1/2" to 10" + 38 Fig. 3530 AIM DN 3/4" to 3" (Jobs 41831, 42323, 42748, 43590, 44329 & 44947)

#### **VARIMEX**

##### **Gdansk Refinery - 1991**

44 Fig. 515 & 715 AIT DN 2" to DN 12"

##### **Zakłady Chemiczne - Oswiecim - 1991**

51 Fig. 512 AIT & AIS Fire Safe DN 80 to DN 150 PN 40 with Actreg spring return actuators and Lucifer Ex-proof solenoid valves.

### PORTUGAL

#### **PETROGAL BP BOREALIS J.V. Engineering: ABB LUMMUS GLOBAL B.V. - SINES LPG Storage - 2000 & 2001**

10 Fig. 2615, 2630 & 2530 AIFv DN 300 to DN 400 with gear, 142 Fig. 715 & 730 AIT, AIS & LIT DN 50 to DN 300, 169 Fig. 417 AIFv & LIFv DN 15 to DN 40 (Job 32157 & 33367)

### QATAR

#### **MAERSK OIL QATAR AS - DOHA - 2001**

60 Fig. 2560 AIN DN 6" and 6 Fig. 2560 AIN DN 10" (Job 34509)

#### **PALADON (Engineering) Ltd. - Q .G.P.C. DIYAB Development - 1991**

15 Fig. 515 AIT DN 8" and DN 10" + 67 Fig. 715 AIT DN 1/2" + 64 Fig. 530 AIT DN 1/2" to DN 10" + 51 Fig. 730 AIT DN 1" to DN 6".

All Class 150 valves 100% M.P. inspected on outside surface of castings and Class 300 valves 100% M.P. inspected all castings surface.

### RUMANIA

#### **POWER PLANT - Engineering: PILLARD FRANCE - 1999**

442 Fig. 515 AIT DN 1" to DN 4" + 217 Fig. 530 AIS DN 1/2" to DN 2". 455 valves with ACTREG spring return pneumatic actuators, switch boxes, quick exhaust valves for closing time less than 1 second (381 valves) or less than 2 seconds (74 valves)

#### **TULCEA PRESSURE REDUCING STATION – Engineering: IGA (THE NETHERLANDS) – 2003**

1 Fig. 2530 A.An.DV DN 20" + 6 Fig. 1530 AIT DN 12" + 4 Fig. 2530 AIT DN 12" (Job. 41433 & 41462)

### SAUDI ARABIA

#### **BECHTEL - National Titanium Dioxide Ltd. - Madinat Cristal Pigments Project- Saudi Arabia - 1992**

47 Fig. 515 AIT DN 3/4" to DN 3" + 557 Fig. 715 AIT DN 1/2" to DN 4" + 194 Fig. 715 IIT DN 1/2" to 3".

**JOHN BROWN ENGINEERING & CONTR. LTD. - Ibn Zahr Polypropylene - Saudi Arabia - 1992**

432 Fig. 515 LIS DN 3/4" to DN 8" &amp; Fig. 530 LIS 1/2" to 6"

**GROVE - EASTERN BECHTEL CORPORATION & OVERSEAS BECHTEL INC. - SAUDI ARAMCO Ras Tanura refinery upgrade project - 1996**

227 Fig. 515 AIFv DN 2" to 8" + 20 Fig. 530 AIFv DN 2" to DN 4" + 2 Fig. 715 AIFv DN 3" + 6 Fig. 715 Alloy 20 ball valves with RTFE seats DN 2". All valves with API 6D monogram.

**SINGAPORE****MINISTRY OF ENVIRONMENT - KRANJI Sewage Treatment Plant - Hyundai Eng. & Constr. Co. Ltd. - Mitsubishi/Ebara Corp. - 1996**

2 Fig. 2515 AIT DN 14" Fire- Safe flanged PN 16 + 119 Fig. 1512 AIT DN 300 PN 16 Fire Safe + 3 Fig. 512 AIT DN 25 Fire Safe. Inspection by American Bureau of Shipping.

**SPAIN****ATOFINA, S.A. – Engineering: SERIDOM – Forane 32 Plant - 2001**

1 Fig. 540 MMT DN 25 + 69 Fig. 540 AIT, AIFv &amp; AIS DN 15 to DN 100 + 227 Fig. 516 &amp; 540 IIT, IIFv, IIPk &amp; IN50T DN 15 to DN 150. 40 of this valves with ACTREG ASR pneumatic actuator. (Job 34789, 34753, 34754 &amp; 34987)

**BASF ESPAÑOLA, S.A. - Tarragona plant**

➤ 1995 - 268 Fig. 513 AIT &amp; IIT from DN 15 to DN 25 and Fig. 512 AIT &amp; IIT from DN 40 to DN 100.

➤ 1997 - 1 Fig. 2563 AIM DN 80 PN 63 Fire-Safe metal seated, with ball and seats in S.S. Tp. 316 HT-65 hardened, with ACTREG ADA 850 pneumatic actuator, declutchable gear, proximity detector switch box and Herion solenoid valve EExd IIC T6.

**BILBAINA DE ALQUITRANES, S.A. Engineering: IDOM – TAR & BITUMEN Plant – Luchana-Baracaldo – 2000**

27 Fig. 3553 IIM DN 25 to DN 150 + 50 Fig. 3516 &amp; 3540 IIM DN 15 to DN 100 + 52 Fig. 3516 &amp; 3540 AIM DN 15 to DN 100 + 145 Fig. 516 &amp; 540 AIS DN 15 to DN 200. 25 with ACTREG ASR pneumatic actuator. (Job 31406, 31408, 31456, 31550, 31704 &amp; 33107)

**BP OIL ESPAÑA S.A. Engineering: FOSTER WHEELER IBERIA, S.A. - Sulphur recovery unit - Castellón - 1996**

15 Fig. 530 AIT DN 3/4" to DN 2" with ACTREG ASR pneumatic actuator, increased safety solenoid valve EExme IIC T5, explosion proof limit switch EEx IIC T6 and filter.

**CEPSA****GIBRALTAR REFINERY**➤ **Butane storage spheres – 2002**

3 Fig. 530 AIT DN 2", 3" &amp; 6" + 1 1530 AIT 10" with Actreg and Biffi pneumatic actuator, declutchable gear, solenoid valve and switch box (Job 38928)

➤ **Bayous loading and unloading facilities enlargement - 2003**

26 Fig. 530 LIT DN 3" to 8" (Job 41262)

➤ **Revamping of Hydrodesulphurisation 1. Engineering: FLUOR - 2003**

10 Fig. 530 AIFv DN 3/4" to 8" (Jobs 42238 &amp; 42343) with ACTREG pneumatic actuators, declutchable gear operator, ASCO solenoid valve and switch box Eex d IIC T6 + ATEX.

➤ **FCC Naphtas Hydrodesulphurisation. Engineering: TECNICAS REUNIDAS - 2003**

16 Fig. 515 &amp; 530 AIS DN 3/4" to 2" + 8 Fig. 2515, 2530 &amp; 2560 LIT DN 3" to 8" + 3 Fig. 2530 LIM DN 4" &amp; 6" (Jobs 42304 &amp; 42819) with ACTREG &amp; BIFFI pneumatic actuators (10 of them with K-MASS Fire-Safe protection), declutchable gear operator, ASCO solenoid valve and switch box Eex d IIC T6 + ATEX.

**LA RÁBIDA REFINERY**➤ **AROMAX® Unit. Engineering: TECNICAS REUNIDAS – 2005**

45 Fig. 515 &amp; 530 AIT DN 25 to DN 200 + 2 Fig. 1530 AIT DN 250 + 12 Fig. 530 AIH99 DN 80 to DN 150 + 1 Fig. 2560 AIM DN 150.

➤ **MORPHYLANE® Unit. Engineering: INTECSA UHDE – 2005**

3 Fig. 515 &amp; 530 AIT &amp; AIS DN 25 to DN 80 + 10 Fig. 3530 AIM DN 50 to DN 100

**C.L.H. (Formerly C.A.M.P.S.A.)**➤ **Barcelona Airport -1993 & 1995**

2 Fig. 2560 AIT DN 6" + 1 Fig. 530 AIT DN 4"

➤ **Gerona Plant - 1995**

2 Fig. 515 AIT DN 8" with gear.

➤ **La Coruña - Vigo oil pipeline - 1994**

17 Fig. 2615 AIT DN 10" + 6 Fig. 715 AIT DN 10" with Rotork IQ servomotor. 4 Fig. 715 AIT DN 10" with gear.

➤ **La Pobla de Mafumet - Monzalbarba oil pipeline - 1997**

32 Fig. 2615 AIT DN 10" + 2 Fig. 715 AIT DN 10" with Rotork IQ servomotor. 6 Fig. 715 AIT DN 10" with gear.

➤ **León storage plant - 2002**

24 Fig. 715 AIT DN 6" with gear (Job38503)

➤ **Monzalbarba plant - 1994**

47 Fig. 515 AIT DN 4".

➤ **Palma de Mallorca Airport - Jet A-1 hydrants - 1994 to 1996**

1 Fig. 2630 AIT DN 18" + 1 Fig. 2630 AIT DN 14" + 1 Fig. 2615 AIT DN 18" + 2 Fig. 1515 AIT DN 10" + 5 Fig. 515 DN 4" + 1 Fig. 730 AIT DN 10" + 7 Fig. 715 AIT DN 10" + 16 Fig. 715 AIT DN 2".

➤ **Puertollano plant - 1997**

2 Fig. 715 AIFv DN 8" + 2 Fig. 715 AIFv DN 12" + 1 Fig. 2660 AIFv DN 6" + 1 Fig. 2560 AIFv DN 10".

➤ **Villaverde D.C.I. - 1994**

24 Fig. 515 AIT DN 4".

**➤ Unknown destination - 2002 - 2003**

4 Fig. 715 AIT DN 8" & 10" (2 with Rotork IQ actuator) + 1 Fig. 2530 AIT DN 10" with gear.

**➤ Madrid Barajas Airport - Engineering Corsan-Corviam - 2003**

2 Fig. 2515 AIT DN 10" with gear.

**➤ Miranda pumping station duplication - 2005**

7 Fig. 7060 LIT DN 300 + 2 Fig. 7090 LIT DN 300.

**CIA. SEVILLANA DE ELECTRICIDAD****➤ Cristóbal Colón Power Plant - Group 2 - Engineering: ISOTRON - 1996**

93 Fig. 515 AIT DN 3/4" to DN 8" all with Actreg spring return actuators and Ex-proof limit switches. Valve bodies X-ray and Magnetic Particles tested and balls Dye-Penetrant Liquids tested in accordance with Enagas specifications.

**➤ Cristóbal Colón Power Plant - Group 2 - Engineering: BABCOCK & WILCOX ESPAÑOLA, S.A. - 1996**

38 ball valves Fig. 515 A.I.CG. from 2" to 6". Valve bodies X-ray and Magnetic Particles tested and balls Dye-Penetrant Liquids tested in accordance with Enagas specifications.

**➤ Cristóbal Colón Combined Cycle Power Plant – Engineering: INITEC – 2003 & 2004**

3 Fig. 2530 AIT DN 8" + 2 Fig. 2560 AIM DN 8" + 2 Fig. 2560 IIM DN 8"

**CRIMIDESA Engineering: DEUTSCHE BABCOCK, S.A. - Crystallisation Plant - Burgos - 1997-1998**

548 Fig. 512 IIT DN 15 to DN 150 PN 16 with Viton o-ring in stem for vacuum, 19 of them with ASR pneumatic actuator, proximity detector and solenoid valve 24 V DC.

**DOW CHEMICAL IBERICA, S.L. – OLYMPUS Project – Tarragona – 2004**

29 Fig. 3515 IIXHT65-NI50 DN 1" To 6" + 39 Fig. 3530 IIXHT65-NI50 DN 1" to 3" (Job 42509, 42807 & 42680)

**ELCOGAS Engineering: KRUPP KOPPERS & BABCOCK & WILCOX ESPAÑOLA, S.A. Cogeneration power plant - Puertollano - 1995, 1996 & 1997**

More than 2700 ball valves Fig. 512, 513, 2500 and 3500, from DN 15 to DN 150 and PN 16 to PN 100.

About 1300 valves with glass filled PTFE seats and more than 1420 metal seated.

Construction materials : 1.0460, 1.0619, 1.4408, 1.4539 (AISI 904L), 1.4563 (Incoloy 625), 1.5415 & 1.5419

**ENAGAS Engineering & Contractors: ABERDEEN, AXIMA, ELECNOR, FOSTER WHEELER IBERIA, S.A., ICC, INTECSA UHDE, S.A., ISOLUX WAT, MASA. 1995 to 2004**

More than 1400 valves Fig. 402, 412, 414, 515, 530, 560, 660, 1515, 2515, 2560, 2615, 2660, 4215, 5215, 5230, 5260, 6060, 6160, 6215, 6230, 6260, 7060 & 7260 DN 1/2" to DN 16"

**ENDESA Engineering: BABCOCK & WILCOX ESPAÑOLA, S.A. - Escatron power plant - 1995**

12 metal seated ball valves Fig. 2560 A.I.HT-65 DN 3" Class 600, with ADA 1200, solenoid valve, limit switch box and pressure regulator

**ENDESA Gas – 2005 & 2006**

1899 Fig. 420 AIT DN 50 to DN 200 with 1 or 2 vent valves.

**ENSIDESA****➤ Engineering: SIDERNAVAL & SIEMENS - Cold rolling mill - 1992**

80 Fig. 512 AIT DN 80 to DN 250 PN 40 with Actreg spring return actuators and declutchable gears.

**➤ Engineering: BABCOCK & WILCOX ESPAÑOLA, S.A. - Blastfurnaces A & B - Veriña - 1996**

513 ball valves Fig. 512 AIT DN 65 to DN 100 PN 16

**ERTISA****Phenol-Cumene Plant – Engineering: INTECSA - UHDE - 1997**

7 Fig. 515 AIFV DN 3" to DN 10" + 4 Fig. 515 CF8C body and AISI 321 trim DN 2" to DN 6" + 3 Fig. 515 and 530 LIT DN 6" to DN 10". (Job 22506) + 6 Fig. 2530 LIHT-65 DN 6".

**Phenol-Cumene II Plant – 2005**

3 Fig. 515 AIFv DN 150 + 2 Fig. 715 AIFv DN 300 + 1 Fig. 6130 LLnFv DN 150

**GAS NATURAL SDG S.A. - Barcelona & Madrid - 1995 to 2004**

1274 Fig. 515 & 530 AIT DN 2" to 8" + 67 Fig. 1515 AIT DN 10 y 12" + 1 Fig. 2530 AIT DN 8" with sealant injectors + 77 Fig. 4215 & 4230 AICG DN 2" to DN 8" + 7 Fig. 6230 AIN DN 10" & 12". Valve bodies X-ray/Ultrasonic and Magnetic Particles tested and balls Dye-Penetrant Liquids tested in accordance with customer specifications.

**GAS DE ARAGON – 2002 to 2004**

23 Fig. 5215 AICG DN 2" to 6" + 91 Fig. 5260 AICG DN 2" to 4" + 24 Fig. 560 & 660 AIN DN 2" & 3" + 14 Fig. 6215 & 6260 AIV DN 10" & 12" + 9 Fig. 715 AIT DN 1" to 8" + 9 Fig. 7260 AIN & AIV DN 6" to DN 12"

**GAS DE ASTURIAS – CASTEJON PIPELINE – 2001 - 2002**

2 Fig. 6260 AIV 20" & 4 Fig. 7260 AIV 12" with pneumohydraulic actuator + 1 6260 AIV 20" with gear + 3 Fig. 7260 AIV DN 12" + 6 Fig. 7260 AIN DN 6" + 2 Fig. 5260 AIN 4" (Job 36337)

**GAS DE CASTILLA LEON – 2002 to 2004**

4 Fig. 4215 AICG DN 2" to 8" + 10 Fig. 515 AIT DN 1" to 8" + 8 Fig. 6215 AanN DN 2" & DN 8"



**GAS DE VALENCIA – CEGAS – 2002 to 2004**

4 Fig. 4215 AICG DN 2" to 8" + 10 Fig. 515 AIT DN 1" to 8" + 8 Fig. 5230 AICG DN 4" + 8 Fig. 6215 AanN DN 2" &amp; DN 8"

**GENERAL ELECTRIC PLASTICS ESPAÑA, S.A.**➤ **LEXAN 1 - Cartagena Polycarbonates Plant - Engineering: Foster Wheeler Iberia, S.A., Sener, S.A., Técnicas Reunidas, S.A. - 1996 & 1997**

More than 6350 ball valves in following constructions and sizes, 550 of them with pneumatic actuator:

1431 Fig. 715 AIT, AIFv, AIS &amp; AIH DN ½" to DN 6" + 3912 Fig. 715 IIT, IIFv, IIS &amp; IIH DN ½" to DN 10" + 171 Fig. 730 AIT &amp; AIH DN 1" to 10" + 220 Fig. 730 IIT, IIFv, IIS &amp; IIH DN 1" to DN 8" + 60 Fig. 515 AIFv &amp; AIS DN ½" to 8" + 364 Fig. 515 IIFv, IIS &amp; IIH DN ½" to 8" + 42 530 AIT, AIFv, AICG, AIS &amp; AIH DN ½" &amp; 3" + 132 Fig. 530 IIT, IIFv, IIS &amp; IIH DN ½" to 6" + 2 Fig. 560 IIN 2" + 5 Fig. 561 AIN 2" + 3 Fig. 915 IIFv DN 4" + 2 Fig. 2560 IIS DN 6" + 1 Fig. 2630 AIT DN 14".

**Metal seated valves:** 3 Fig. 2515 AIM DN 2 & 4" + 13 Fig. 2530 AIM DN 2" to DN 6" + 1 Fig. 2530 IIM DN 6" + 5 Fig. 2560 AIM DN 1 ½" & 6" + 8 Fig. 2630 AIM DN 3" + 2 Fig. 3515 AIM DN 2".➤ **LEXAN 1 - Cartagena Polycarbonates Plant – Engineering: JOHN ZINK EUROPE, S.A. (LUXEMBOURG) - 1997**

59 Fig. 515 AIT DN ¾" to DN 2" with o-ring in stem.

➤ **LEXAN 2 - Cartagena Polycarbonates Plant - Engineering: Foster Wheeler Iberia, S.A., Sener, S.A., Técnicas Reunidas, S.A. - 2000 to 2002**

Basically same supply as LEXAN 1 Project

➤ **LEXAN 2 - Cartagena Polycarbonates Plant – Engineering: NASH Europe B.V. (The Netherlands) 2000 & 2001**

9 Fig. 1515 IIFv DN 10" &amp; 12" + 141 Fig. 515 IIFv DN 1/2" to 8"

➤ **ULTEM - Cartagena Polycarbonates Plant – 2006**

167 Fig. 715 &amp; 730 AIFv &amp; IIFv DN 1/2" to 4"

**G.P.M. Engineering: EMMSA - Canovelles - 1990**

126 Fig. 512 AIT DN 15 to DN 125.

**IBERDROLA - Cofrentes Nuclear Power Plant - 1996**2 Fig. 2360 AIM DN 6" ¼" BW with Actreg ADA 1750 actuator and limit switch box + 2 Fig. 2360 AIM DN 3" ½" BW with Actreg ASR 1200 actuator and limit switch box. Valves with CC-60 hardened ball and seats, double packing and **test** to verify **non-sparking** between ball and seats for 25000 cycles.**INDUSTRIAL QUIMICA DEL NALON, S.A. - Refined Naphthaline Plant - Trubia (Asturias) - 1997**

91 Fig. 512 HIT DN 15 to DN 40 + 330 Fig. 512 AIT DN 15 to DN 100 PN 16 + 302 Fig. 512 AICG Fire-Safe DN 15 to DN 150 PN 16 + 95 Fig. 512 IIT DN 15 to DN 50 + 80 Fig. 512 IICG Fire-Safe DN 15 to DN 150 PN 16 + 45 Fig. 512 U.U.T. (1.4539 body and trim) DN 20 to DN 100 PN 16 + 11 Fig. 512 AIT, AICG Fire-Safe &amp; IICG Fire-Safe with ACTREG spring return pneumatic actuator, emergency manual operation and solenoid valve DN 20 to DN 100 PN 16 + 1 Fig. 901 IICG DN 50 with ACTREG ASR 850, declutchable gear and solenoid valve. 132 Fig. 3512 AIM (HT-65 ball and seats) DN 20 to DN 100 PN 16 + 39 Fig. 3512 IIM (HT-65 ball and seats) DN 15 to DN 150 PN 16 + 62 Fig. 3512 IIM (HT-65 ball and seats &amp; Kalrez™ o-ring) DN 15 to DN 100 PN 16

**KAO CORPORATION, S.A. - Fragrances plant - Mollet del Vallés - 1995**

382 Fig. 512 IIT DN 15 to DN 100 with EPDM o-ring in stem for vacuum service (178 with Actreg pneumatic actuator and switch box) + 30 Fig. 901 IIT DN 15 to DN 80 also with o-ring, actuator and switch box.

**NISSAN MOTOR IBERICA Engineering: VIZDUR - Painting lines - Barcelona - 1991**More than 250 Fig. 500 & 512 AIT & IIT DN 15 to DN 150 **degreased and silicone free.****PETRESA Engineering: INTECSA UHDE - Parafines plant - Algeciras**➤ **2001** - 12 Fig. 515 AIT DN 1" to 6" + 1 Fig. 2560 AIT DN 6" + 1 Fig. 530 AIS DN ¾" all with ACTREG spring return pneumatic actuator, declutchable gear operator, solenoid valve, SPDT switch box Eex d IIC T6 and filter-regulator (Job 35174)➤ **2002** - 20 Fig. 515 AIT DN 1 ½" & 6" all with ACTREG spring return pneumatic actuator, declutchable gear operator, solenoid valve, SPDT switch box Eex d IIC T6 and filter-regulator (Job 39192)➤ **2003** - 20 Fig. 515 AIT DN 1 ½" & 2" all with ACTREG spring return pneumatic actuator, declutchable gear operator, solenoid valve, SPDT switch box Eex d IIC T6 and filter-regulator (Job 40015)**PRAXAIR ESPAÑA, S.A. - C02 Plant - Sotiello - 1997**

53 Fig. 530 AIT &amp; AIS DN 1" to DN 3" (20 with ADA pneumatic actuator, solenoid valve and switch box with proximity detectors) + 2 Fig. 512 AIS DN 80 PN 40 with ADA and solenoid valve + 1 Fig. 512 AIS DN 150 PN 50 with switch box. (Job 21502, 21583, 21855)

**REPSOL BUTANO, S.A. - Palos de la Frontera Plant - 1995**

4 Fig. 1630 AIT DN 10" + 7 Fig. 730 AIT DN 8" + 14 Fig. 730 AIT DN 6" + 6 Fig. 530 AIT 3".

**REPSOL PETROLEO, S.A.**➤ **Cartagena Plant - Cogeneration (Eng. Mecánica de la Peña, S.A.) - 1993**

123 Fig. 515 AIT DN ½" to DN 10" with Actreg spring return actuator and proximity limit switches + 24 Fig. 515 AIT DN 1" to DN 6" with proximity limit switch.

➤ **Cartagena Plant - 1993 - 1997**

6 Fig. 715 AIT 4" + 6 Fig. 2515 AIFv DN 8" + 6 Fig. 2615 AIFv DN 10".

➤ **La Coruña Plant - 1993 & 1994**

4 Fig. 1530 AIT DN 10" with gear + 4 Fig. 515 AIT DN 2" &amp; DN 4" + 10 Fig. 715 AIT DN 4" &amp; DN 8".

➤ **Tarragona pipeline - 1995**

4 Fig. 530 AIT DN 6"

➤ **Pobla de Mafumet Plant - 1997**

2 Fig. 515 AICG DN 6" + 4 Fig. 715 AIT DN 8" + 44 Fig. 730 AIT DN 2" to 6" + 1 Fig. 2515 LIT DN 10".

**➤ Gas measuring station - Tarragona Plant - 1997**

2 Fig. 2530 AIN DN 6" + 2 Fig. 2530 AIT DN 10"

**➤ Puertollano Plant - Engineering: INITEC - Mild Hydrocracker - 2002 & 2003**

57 Fig. 515 & 530 AIT, AIS & AICg DN 3/4" to 8" + 3 Fig. 560 AIS DN 1 1/2" & 4" + 2 Fig. 590 AnInCg DN 1 1/2" & 2" + 10 Fig. 715 AIS DN 3/4" + 9 Fig. 1515 & 1530 AIT, AIS & AICg DN 8" to 12" + 1 Fig. 2515 AIT DN 14" + 1 Fig. 2515 C5IM DN 12" with **CC 60 hardened ball and seats** + 4 Fig. 2560 AIT DN 6" to 10" + 4 Fig. 2560 & 2660 AIM DN 1 1/2" and 3" with **HT 65 hardened ball and seats** + 4 Fig. 2590 AICg DN 4" & 6" + 1 Fig. 2590 AIM DN 6" with **HT 65 hardened ball and seats** + 1 Fig. 2590 F11IM DN 10" with **CC 60 hardened ball and seats** + 1 Fig. 2550 AinV DN 10". All the valves with ACTREG or BIFFI pneumatic actuator, ASCO solenoid valve, proximity sensors switch box and air set or IQ Rotork servomotor.

**➤ Puertollano Plant - Engineering: SENER - Bottom of accumulators - 2003**

1 Fig. 2515 AIT DN 12" + 1 Fig. 2515 AIT DN 14", both with Biffi pneumatic actuator, solenoid valve, proximity detectors switch box and air set (Job 40633)

**➤ Cartagena Plant – Refinery enlargement – 2008 to 2009. Engineering: INTECSA Industrial.**

1 Fig. 2530 AIT DN 6" with Actreg spring return actuator, proximity limit switches, solenoid valves and declutchable gear box + 4 Fig. 2530 AIT DN 10" with Actreg spring return actuator, proximity limit switches, solenoid valves and declutchable gear box + 2 Fig. 2530 IIT DN 16" with Actreg spring return actuator, proximity limit switches, solenoid valves and declutchable gear box.

**➤ Cartagena Plant – Refinery enlargement (C-10 Project) - 2009 to 2010. Engineering: Técnicas Reunidas.**

4 Fig. 2560 IIM DN 1.1/2" with Flanged stem extension + 1 Fig. 2530 AIT DN 2" + 1 Fig. 2560 AIT DN 2" + 2 Fig. 2530 AIT DN 3" + 2 Fig. 2530 IIT DN 3" + 2 Fig. 2530 AIT DN 4" + 1 Fig. 2530 IIT DN 4" + 2 Fig. 2530 AIT DN 6" + 1 Fig. 2530 IIT DN 6" + 1 Fig. 2560 IIM DN 6" with Flanged stem extension + 4 Fig. 2530 AIT DN 8" + 2 Fig. 2560 AIM DN 8" + 3 Fig. 2560 IIM DN 3" with Flanged stem extension + 1 Fig. 2560 AIM DN 10" with Flanged stem extension + 2 Fig. 2560 IIM DN 10" with Flanged stem extension + 3 Fig. 2530 AIT DN 12" + 1 Fig. 2530 IIT DN 12" + 2 Fig. 6060 AIM DN 12" with Flanged stem extension + 1 Fig. 6060 AIM DN 12".

Note: All valves for on/off service which include Actreg or Rotork spring return actuators, proximity limit switches, solenoid valves and declutchable gear box (in some positions) and emergency air deposit (in some positions).

**➤ Coruña Plant – G42 Project 'Reduction of sulfur in FCC naftas' - 2009 to 2010. Engineering: SENER.**

**Unit 615:** 1 Fig. 3530 AIM DN 1.1/2" + 2 Fig. 2530 AIT DN 3" + 2 Fig. 2530 AIT DN 6" + 2 Fig. 2560 AIM DN 6" + 3 Fig. 2560 AIM DN 6" with Flanged stem extension + 2 Fig. 2530 AIT DN 8" + 1 Fig. 2530 AIM DN 8".

**Unit 689:** 1 Fig. 530 AIT DN 1.1/2" + 3 Fig. 3530 AIM DN 1.1/2" + 3 Fig. 2530 AIM DN 2" + 1 Fig. 2530 AIM DN 3" + 3 Fig. 2530 AIM DN 4" + 1 Fig. 2530 AIT DN 4" + 4 Fig. 2530 AIM DN 6".

Note: All valves for on/off service which include Actreg or Rotork spring return actuators, proximity limit switches, solenoid valves and declutchable gear box (in some positions) and emergency air deposit (in some positions).

**REPSOL QUIMICA, S.A.****➤ PE/BD Plant - Puertollano - 1995**

21 Fig. 715 AIT DN 2" &amp; DN 3".

**➤ Puertollano – Engineering: Foster Wheeler Iberica - 1995 & 1996**

54 Fig. 715 AIT DN 1/2" to 3" + 70 Fig. 515 IIT DN 1/2" to 4" + 2 Fig. 730 IIT DN 1" + 5 Fig. 915 IIT DN 2"

**➤ Polypropylene Plant - Tarragona - 1996 & 1997**

1218 Fig. 715, 730, 515 &amp; 530 AIT, IIT &amp; LIT DN 1/2" to DN 12" + 16 Fig. 570 IIS 1/2" to 1" (Steam jacketed) + 14 Fig. 560, 660 &amp; 2660 IIN, LIN &amp; LIT DN 2" to DN 6".

50 Fig. 515, 530 & 570 AIT, AIS, IIT & IIS DN 1/2" to DN 8" with ACTREG pneumatic actuators, EEx em II T5 solenoid valves, intrinsically safe switch boxes, pneumatic distributors and vinyl fuses.

**➤ Styrene monomer/ Propylene Oxide Plant (SM/OP) - Engineering: INTEIN (Initec, S.A. - Técnicas Reunidas, S.A. - Intecsa Uhde, S.A.) Styrene monomer, tar and glycols units - 1998 & 1999**

75 Fig. 515 and 1515 AIT &amp; IIT DN 2" to 10" + 27 515 CE8MN.S31803.Fv DN 2" to 8" + 54 Fig. 530 AIT &amp; IIT DN 2" to 4". (Jobs 25652 and 26669)

316 Fig. 515 and 1515 AIT, AICG, AIS, LIT & IIT DN 3/4" to DN 12" + 29 Fig. 515 and 1515 A.I.PEEK DN 2" to DN 12" + 1 Fig. 515 DN 6" in **A351 Gr CG3M** with CG seats + 9 Fig. 530 and 1530 LIT DN 4" to DN 10" + 51 Fig. 2515 AIT & IIT DN 1 1/2" to DN 20" + 10 Fig. 2515 A.I.PEEK DN 2" & 6" + 23 Fig. 2530 AIT, AICG, LIT and IIT DN 2" to 16" + 9 Fig. 2530 A.I.PEEK DN 8" + 1 Fig. 2660 IIT DN 14" + 2 Fig. 2660 A.I.HT-65 DN 4" & DN 6" + 5 Fig. 2560 IIT DN 6" and DN 12" + 13 2560 A.I.HT-65 DN 1 1/2" to DN 8" + 2 Fig. 5230 LIFv DN 6". Pneumatic actuated valves with ACTREG, EL-O-MATIC and CENTRALAIR spring return actuators, Eex em II T5 solenoid valves, intrinsically safe switch boxes and filter-regulators. (Jobs between 25365 & 30503)

**➤ Polyolefins unit (Polyols) - 1998 to 2000**

83 Fig. 515 and 530 AIT, AIS, I4IT & I4IS DN 1" to 8" + 23 Fig. 1515 I4IT DN 10" & 12" + 2 Fig. 2515 AIT DN 16" + 9 Fig. 2560 I4IFv & I4ICG DN 4" TO 10" + 6 Fig. 2560 I4,I,CT-70 DN 4" to 12". All Stainless Steel valves in **A351 Gr CF3M/AISI 316L**. Pneumatic actuated valves with ACTREG and BIFFI spring return actuators, Eex em II T5 solenoid valves, intrinsically safe switch boxes and filter-regulators. (Jobs 28974 to 30168).

**➤ Polymeric Polyolefins unit - 1999 & 2000**

22 Fig. 515 AIT, AICG & IIT DN 1 1/2" to 8" + 14 Fig. 1515 IIT DN 10" & 12" + 105 Fig. 1515 AIT & IIT DN 2" to DN 12" with **cavity filler for High Viscosity fluids**. Pneumatic actuated valves with ACTREG and BIFFI spring return actuators, Eex em II T5 solenoid valves, intrinsically safe switch boxes and filter-regulators. (Job 30829)

**➤ High Density Polyols Plant - Engineering: ICONSA - Puertollano - 2003**

21 Fig. 515 IIT with ACTREG pneumatic actuator, solenoid valve and intrinsically safe detectors switch box (Job 40209)

**➤ PO/SM plant revampig - Engineering: INITEC - Tarragona - 2005**

11 Fig. 515 AIT, AIFv &amp; IIT DN 50 to DN 200 + 2 Fig. 6015 AIT &amp; IIT DN 250.

**RHONE POULENC NUTRICION ANIMAL - Burgos - 1995 & 1996**



465 Fig. 512 AIT & IIT Fire Safe DN 15 to DN 80.

➤ **Macarena Project - 1998**

515 Fig. 512 AIT & IIT Fire Safe DN 15 to DN 100.

**S. E. CARBUROS METALICOS, S.A. - AIR PRODUCTS PLC - TECHNIP BENELUX bv - Tarragona Hydrogen facility - 2001**

143 Fig. 515 AIT DN 1/2" to 3"

**SCOTT, S.A. - Miranda de Ebro - 1991**

260 Fig. 512 AIT & IIT DN 15 to DN 100.

**SIDERNAVAL - SIEMENS - ENSIDESA Cold rolling mill - 1992**

80 Fig. 512 AIT DN 80 to DN 250 PN 40 with Actreg spring return actuators and declutchable gears.

**SOLVAY, S.A. - H<sub>2</sub>O<sub>2</sub> Plant - Torrelavega - 1992**

182 Fig. 512 IIT DN 25 to DN 200.

**TERMINALES PORTUARIAS, S.A. - Tarragona - 1993 & 1994**

237 Fig. 515 AIT & IIT DN 1 1/2" to DN 10" + Fig. 901 AIT DN 4" with proximity switches.

**TIRME Engineering: ABB GENERACION, S.A. - Waste incineration plant - Palma de Mallorca - 1995**

198 Fig. 500 AIT, AIS, IIT & IIS DN 3/8" to DN 2" + 69 Fig. 512 AIT, AIS, IIT & IIS DN 15 to DN 100 + 118 Fig. 512 AIT & AIS DN 25 to DN 125 with Actreg spring return actuators and gold contact limit switches.

➤ **1997**

2 Fig. 3512 AIM DN 80 PN 16 metal seated, with ball and seats in S.S. Tp. 316 HT-65 hardened.

**UBE - Engineering: Técnicas Reunidas, S.A. - Hexadiol Plant - Proquimed - Castellón - 1998**

131 Fig. 715 AIS, AIH, IIT, IIFv, IIS and IIH DN 3/4" to DN 4" + 83 Fig. 755 AIS, AIH, IIS and IIH DN 1/2" to DN 3" steam jacketed.

44 of this valves with o-ring in stem for vacuum service. (Jobs 24692 and 26275)

**SRI LANKA**

**SHELL TERMINAL LANKA LTD. - LPG Import terminal - 1999**

210 Fig. 715, 730 & 530 AIT & IIT 1/2" to 6" + 8 Fig. 730 AIT 6" with Interlocks. 165 low temperature valves with 300 mm stem extension Fig. 715, 730, 1730, 530 & 2530 LIT & IIT 1/2" to 10" with cavity relief seats. (Job 28276)

**SWEDEN**

**KEMIRA ENGINEERING OY**

➤ **PEX 6 Project - 1996 & 1997**

1321 JC ball valves Fig. 512 IIFv with following characteristics:

774 Fig. 512 IIFv DN 15 to DN 150 PN 16 degreased + 495 Fig. 512 IIFv DN 15 to DN 200 PN 16 degreased, with cavity relief hole upstream and fully machined body cavity + 52 Fig. 512 IIFv DN 15 to DN 100 PN 16 with flanges DIN 2512 Form N.

➤ **ECOX 2 Project - 2000 & 2001**

1004 JC ball valves Fig. 512 IIFv with following characteristics:

611 Fig. 512 IIFv DN 15 to DN 100 PN 16 degreased + 382 Fig. 512 IIFv DN 15 to DN 150 PN 16 degreased, with cavity relief hole upstream and fully machined body cavity + 11 Fig. 512 IIFv DN 15 to DN 100 PN 16 with flanges DIN 2512 Form N.

**SWITZERLAND**

**C.E.R.N. (European Centre for Nuclear Research) - Geneva - 1989 to 2001**

Several projects with more than 750 valves Fig. 500 IIP DN 1/2" to 2" + Fig. 512 AIP & IIP from DN 15 to DN 200. Seats and seals always in U.H.M.W. Polyethylene.

66 Fig. 540 IITFM DN 80 and 540 IIKel.F DN 50 for Helium circuits.

**CIBA GEIGY, S.A. - Monthey Plant - 1990 to 2004**

Various projects with about 2500 valves Fig. 513 AIT & IIT DN 15 to DN 100 + Fig. 553 IIT DN 15 to DN 100 + Fig. 916 DN 25 to DN 80.

**GIVAUDAN ROURE - Geneva - 1991 to 2004**

Different supplies of ball valves Fig. 516 & 540 IIT DN 15 to DN 250 PN 16 and Fig. 340 IMS DN 15 to DN 50.

**HOFFMANN LA ROCHE - Basel - 1995 & 1996**

63 Fig. 513 IIT Fire Safe DN 15 to DN 100

**HYDRO-VEVEY - 1993**

51 Fig. 512 AIT DN 25 to DN 80 PN 40 + 33 Fig. 512 AIT DN 65 to DN 300 PN 16.

**ORGAMOL, S.A. - Evionnaz - 1991 to 2004**

Several projects with more than 250 valves Fig. 513 AIT, AIS & IIT DN 15 to DN 100.

**SERVICES INDUSTRIELS DE GENEVE - Pumping and water treatment stations - 1990 to 1995**

Several projects with more than 600 valves Fig. 512 IIT DN 15 to DN 150.

**TAIWAN**

**BEFS TECHNOLOGIES - CSCC Tar refining plant - Taiwan - 1992**

80 Fig. 715, 755 & 770 AIT DN 1/2" to DN 6" pneumatic operated with Ex-proof solenoid valve and switch box.

**FORMOSA PETROCHEMICAL CORPORATION - CTCI CORPORATION Engineering - Mai-Liao Refinery delayed coker unit (coke drum) - 1998**



13 Fig. 3530 IIM DN 1 1/2" to 3" + 10 Fig. 2530 IIM DN 10" to 14" with 4 steam purge connections flanged 1" Class 300. Ball and seat rings HT 65 hardened. (25121)

**NAN YA PLASTICS CORPORATION - 1998**

38 Fig. 515 Alloy 20 valves DN 1/2" to 4" + 106 Fig. 515 Inconel A494 -CY40 valves DN 3/4" to 6" with **double packing with leak detector connection**. X-ray and dye penetrant liquids inspections. Testing to TA-Luft requirements. Fluids: Phosgene, HCl, H2SO4 (85%, 94 to 98%), TDI. (25561)

**THAILAND****JOTUN PAINT PLANT - 1997**

408 Fig. 515 AIT DN 1" to 6" + 64 Fig. 530 AIT DN 1" to 6" + 4 Fig. 1530 AIT DN 8" + 216 Fig. 515 IIT DN 3/4" to 4" + 6 Fig. 915 AIT DN 3" + 7 Fig. 915 IIT DN 3".

**TURKMENISTAN****DRAGON OIL (TURKMENISTAN) LTD, - 2002 to 2005**

5 Fig. 515 AIT DN 80 & 100 + 7 Fig. 730 AIT DN 50 + 2 Fig. 2530 AIT DN 100 & DN 300 + 2 Fig. 2590 AIT DN 80 + 5 Fig. 2690 AIT DN 50 & DN 100 + 2 Fig. 2550 AIT DN 100 + 6 Fig. 2650 AIT DN 50 & DN 250

**UNITED ARAB EMIRATES****ALBANNA ENGINEERING – 2002 to 2005**

45 Fig. 515 & 530 AIT & IIT DN 15 to DN 80 + 104 Fig. 715 AIT DN 20 to DN 250 + 1 Fig. 2515 AIT DN 300

**ALDERLY FZE – 2003 to 2005**

60 Fig. 515 & 530 AIT, LIT & IIT DN 15 to DN 80 + 170 Fig. 715 & 730 AIT DN 20 to DN 80

**BELLELI ENERGY SRL – 2002 to 2005**

73 Fig. 515 AIT DN 25 to DN 80 + 6 Fig. 560 AIN DN 80

**BP SHARJAH OIL COMPANY (Formerly AMOCO SHARJAH OIL CO.) – 2002 to 2005**

110 Fig. 515 & 530 AIT, LIT & IIT DN 20 to DN 200 + 16 Fig. 715 AIT & LIT DN 50 to DN 200 + 1 Fig. 550 AIT 2" + 6 Fig. 2515 & 2560 DN 50 to DN 300 + 4 Fig. 2590 LIT DN 150.

**CYLINGAS – 2002 to 2005**

604 Fig. 515 & 530 AIT & IIT DN 15 to DN 200 + 237 Fig. 715 & 730 AIT DN 20 to DN 150 + 8 Fig. 2530 AIT DN 50 to DN 150

**DUBAI DRYDOCKS – 2003**

42 Fig. 515 & 530 AIT DN 20 to DN 65 + 12 Fig. 730 AIT DN 50

**DUBAI NATURAL GAS CO. LTD – 2001 to 2005**

1 Fig. 2630 AIT 18 + 41 Fig. 2515 to 2560 AIT DN 50 to DN 250 + 12 Fig. 515 & 530 AIT DN 20 to DN 200 + 7 Fig. 715 AIT DN 40 to DN 150

**DUBAI PETROLEUM COMPANY – 2002 to 2005**

432 Fig. 515, 530 & 560 AIT & IIT DN 20 to DN 150 + 83 Fig. 2515, 2530, 2560, 2590 & 2550 AIT DN 50 to DN 300

**FOSTER WHEELER ENERGY LTD. - ABU DHABI Co. FOR ONSHORE OIL OPERATION - Bab Oil Development Project - 1993**

24 Fig. 715 & 515 AIT DN 4" to DN 10"

**J. RAY MCDERMOTT MIDDLE EAST INC. – 2002 to 2005**

189 Fig. 2560 & 2660 AIT & AIFv DN 50 to DN 300 + 48 Fig. 515 & 530 AIT & IIT DN 50 to DN 200 + 78 Fig. 715 & 730 AIT DN 50 to DN 100

**RAMPCO (REHABILITATION & MAINTENANCE OF PETROCHEMICAL COMPANY) Int. Tech. Serv. LLC – 2003 to 2005**

96 Fig. 515 AIT DN 15 to DN 200 + 13 Fig. 715 & 730 AIT & IIT DN 25 to DN 80 + 1 Fig. 2515 AIT DN 300

**ROSEN MIDDLE EAST – 2003**

70 Fig. 530 & 730 AIT DN 50 & DN 100

**TOLEDO ELECTRICAL & MECHANICAL WORKS EST. – 2003**

16 Fig. 515 AIT DN 20 to DN 50 + 72 Fig. 715 AIT DN 20 to DN 200

**UNITED KINGDOM****BABCOCK CONTRACTORS - BASF Huyton - 1989 to 1991**

203 Fig. 715 AIT DN 3/4" to DN 4" + 11 Fig. 901 AIT DN 1 1/2" to DN 6".

**BP, BP OIL, BP CHEMICALS and BP EXPLORATION**

Different projects through contractors as per enclosed reference list.

**ICI - WILTON (TEESIDE) - 1998**

2 Fig. 2515 IIFv DN 14" + 2 Fig. 2615 IIT DN 14" in A351 Gr CF3M

**PALADON (Engineering) Ltd. - KERR MCGEE - GRYPHON Project - 1993**

98 Fig. 515, 1615, 715 & 730 AIT DN 3/4" to DN 12" + 43 Fig. 715 AIT DN 1/2" to DN 10" with **body, insert, ball and stem electroless nickel plated** for sea water service + 61 Fig. 515, 530, 715 & 730 DN 3/4" to DN 6" in **CD4 MCu**.

**TEXACO NORTH SEA U.K. Co. - F.P.S.O. CAPTAIN FIELD PROJECT - 1995****Engineering: INITEC - WARTSILA - ABB GLOBAL ENGINEERING**

86 Fig. 715 AIFv DN 1/2" to 6" + 30 Fig. 730 AIFv DN 1 1/2" to 3" + 9 Fig. 530 AIFv DN 1/2" to 2" + 1 Fig. 515 AIFv DN 2 1/2". All valves **individually controlled**, castings **X-rayed** and **M.P.I.**; forgings (5 Fig. 730 1 1/2" in A105) **ultrasounds tested** to ASME VIII, with **Lloyd's Register of Shipping inspection**.



**UNITED STATES OF AMERICA**

**GOOD YEAR TIRE RUBBER - KELLOGG BROWN ROOT - Polymers - BEAUMONT (TX) - 1999 & 2000**

More than 5000 valves Fig. 715, 730, 515, 530, 401 & 411 in Carbon and Stainless Steel with Glass Filled PTFE, PFA or metal seats.

**HOUSTON AIRPORT - 1994**

2 Fig. 2615 AIT DN 18" + 1 Fig. 2615 AIT DN 16"

**YEMEN**

**TOTAL E & P YEMEN – 2002 to 2005**

75 Fig. 515 & 530 AIT DN 50 to DN 200 + 173 Fig. 715 & 730 AIT DN 50 to DN 150 + 100 Fig. 2515, 2530, 2560 & 2550 AIT DN 50 to DN 250 + 99 Fig. 2630, 2690 & 2650 AIT DN 50 to DN 250.



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## Cast Valves References

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### Gate, Globe and Check (Bolted Bonnet & Pressure Seal)

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October 2009

GATE VALVES

Client	Valve Type	Year	Size	Rating	Material	Qty.	Applicable Code/Std
Albanna Engineering	Epoxy coated OS&Y, BB	2005	8" to 16"	150	WCB	28	API 600 / NACE MR-01.75
Dubai Petroleum Co.	OS&Y, BB	2005	2"	1500	LF2	2	API 600 / NACE MR-01.75
Enoc Processing Co.	OS&Y, BB	2005	12" to 40"	150	WCB	7	API 600 / NACE MR-01.75
Dutco McConnell Dowell (ME) LLC	OS&Y, BB	2005	16" to 30"	150	WCB	10	API 600 / NACE MR-01.75
Dutco McConnell Dowell (ME) LLC	OS&Y, BB	2005	16" to 30"	300	WCB	6	API 600 / NACE MR-01.75
Nioc - Bandar Abbas Oil Refining Co.	OS&Y, BB	2005	3"	150	CF3M	1	API 600
Nioc - Central Oil Field	OS&Y, BB	2005	8" to 12"	150	WCB	42	API 600 / NACE MR-01.75
Nioc - Central Oil Field	OS&Y, BB	2005	8" to 16"	600	WCB	5	API 600 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2003	6"	900	WC6	1	API 600
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	8"	300	CF8M	1	API 600 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	12" to 24"	600	WC6	2	API 600 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	20"	150	WCB	2	API 600 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	20"	300	WCB	1	API 600 / NACE MR-01.75
Total E&P Yemen	OS&Y, BB	2004	2"	1500	WCB	8	API 600 / NACE MR-01.75
Total E&P Yemen	OS&Y, BB	2004/2005	2"	300	WCB	13	API 600 / NACE MR-01.75
Total E&P Yemen	OS&Y, BB	2004/2005	2" to 4"	150	WCB	5	API 600 / NACE MR-01.75
Intecsa (E.H.N.)	OS&Y, BB	2003	2" to 8"	150	WCB	95	API 600
Intecsa (E.H.N.)	OS&Y, BB	2003	2" to 6"	150	CF3	45	API 600
CEPSA	OS&Y, BB	2003/2004/2006	6" to 18"	150	WCB	17	API 600
CEPSA	OS&Y, BB	2003/2004	3" to 18"	300	WCB	6	API 600
CEPSA	OS&Y, BB	2003/2004	6" to 8"	150	CF8M	10	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005/2006	2" to 32"	150	WCB	363	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005/2006	2" to 44"	150	LCB	55	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 12"	150	CF8	20	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 8"	150	CF8M	23	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 20"	300	WCB	28	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 8"	300	LCB	49	API 600
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	8" to 28"	600	WC6	7	API 600
REPSOL - YPF	OS&Y, BB	2005	10"	150	CF8C	4	API 600
Empresarios Agrupados	OS&Y, BB	2005	4"	300	LCB	1	API 600
Initec	OS&Y, BB	2005	3" to 14"	150	WCB	35	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 24"	150	WCB	346	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	4"	150	LCB	1	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	6"	150	CF3M	1	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 14"	150	CF8	52	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005/2006	3" to 12"	150	CF8C	169	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	2" to 12"	300	WCB	141	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 6"	300	LCB	19	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	4" to 12"	300	CF8C	3	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3"	300	CF3M	3	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 4"	300	CF8M	44	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 6"	600	LCB	4	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2006	4" to 6"	150	CF8C	4	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2006	3" to 4"	300	WCB	3	API 600
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2006	4"	300	CF8M	1	API 600
REPSOL - YPF	OS&Y, BB	2006	2" to 3"	300	CF8C	6	API 600
Idom	OS&Y, BB	2006	3" - 20"	150	WCB	32	API 600
Idom	OS&Y, BB	2006	3" to 6"	150	CF8M	12	API 600
Idom	OS&Y, BB	2006	3" to 8"	1500	WCB	5	API 600
Idom	OS&Y, BB	2006	3" to 4"	600	WCB	4	API 600
Idom	OS&Y, BB	2006	3" to 12"	300	WCB	25	API 600
Idom	OS&Y, BB	2006	12"	2500	C12A	1	API 600
Técnicas Reunidas	OS&Y, BB	2006	3" to 20"	150	WCB	7	API 600
Técnicas Reunidas	OS&Y, BB	2006	2" to 10"	150	CF3M	14	API 600
Idom	OS&Y, PS	2006	10"	2500	C12A	2	B16.34
REPSOL - YPF	OS&Y, BB	2006	2" to 24"	150	WCB	339	API 600
REPSOL - YPF	OS&Y, BB	2006/2007	2" to 8"	300	WCB	188	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 42"	150	MONEL M-35-2	67	ASME B16.34
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 6"	300	MONEL M-35-2	52	ASME B16.34
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 16"	600	WCB	71	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	3" to 12"	600	WC6	70	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 12"	900	WC6	48	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 10"	900	WC1	20	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	2" to 24"	300	C5	180	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	6" to 16"	600	C5	59	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 12"	150	C5	11	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	4" to 16"	600	C12	64	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 20"	150	C12	11	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	3" to 14"	300	C12	83	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4"	300	CF8C	2	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 10"	150	CF8M	30	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	2" to 36"	300	WCB	1.170	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	3" to 10"	300	CF8M	27	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 12"	600	CF8M	48	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 6"	900	CF8	13	API 600

GATE VALVES

Client	Valve Type	Year	Size	Rating	Material	Qty.	Applicable Code/Std
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 8"	300	CF3M	7	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	2" to 36"	150	WCB	1.744	API 600
Initec (Hualpen-chile)	OS&Y, BB	2006	2" to 6"	300	CF3M	8	API 600
Initec (Hualpen-chile)	OS&Y, BB	2006	2" to 6"	150	CF3M	6	API 600
Initec (Hualpen-chile)	OS&Y, BB	2006	2" to 14"	300	CF8C	12	API 600
Initec (Hualpen-chile)	OS&Y, BB	2006	2" to 12"	300	WC6	18	API 600
Initec (Hualpen-chile)	OS&Y, BB	2006	2" to 4"	600	WCB	13	API 600
Initec (Hualpen-chile)	OS&Y, BB	2006	2" to 12"	300	WCB	102	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2007	12"	300	WC9	1	API 600
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2007	3"	900	WCB	2	API 600
Initec	OS&Y, BB	2007	14"	300	CF8C	1	API 600
Panaflo	OS&Y, BB	2007	2" to 24"	150	WCB	313	API 600
Panaflo	OS&Y, BB	2007	2" to 12"	300	WCB	70	API 600
Panaflo	OS&Y, BB	2007	2" to 12"	600	WCB	49	API 600
CLH	OS&Y, BB	2007	6" to 18"	150	WCB	60	API 600
CLH	OS&Y, BB	2007	4"	150	CF3	2	API 600
Bidarte (La Risca Project-Idom)	OS&Y, BB	2009	2 1/2" to 24"	150	WCB	111	API 600
Bidarte (La Risca Project-Idom)	OS&Y, BB	2009	3" to 24"	300	WCB	92	API 600
Bidarte (La Risca Project-Idom)	OS&Y, PS	2009	3" to 12"	900	WCB	18	ASME B16.34
Bidarte (La Risca Project-Idom)	OS&Y, PS	2009	6"	1500	WCB	12	ASME B16.34



GLOBE VALVES

Client	Valve Type	Year	Size	Rating	Material	Qty.	Applicable Code/Std
Dodsall Pte. Ltd.	OS&Y, BB	2005	6"	1500	WCB	1	BS 1873
Dodsall Pte. Ltd.	OS&Y, BB	2005	8" to 10"	600	WCB	3	BS 1873
Dubai Petroleum Co.	OS&Y, BB	2005	2"	1500	A105	1	BS 1873 / NACE MR-01.75
Dubai Petroleum Co.	OS&Y, BB	2005	2"	300	WCB	1	BS 1873 / NACE MR-01.75
Enoc Processing Co.	OS&Y, BB	2003/2005	6" to 10"	150	WCB	5	BS 1873 / NACE MR-01.75
Dutcu McConnell Dowell (ME) LLC	OS&Y, BB	2005	12" to 16"	300	WCB	2	BS 1873 / NACE MR-01.75
Metito	OS&Y, BB	2004/2005	2" to 3"	300	CF3M	5	BS 1873
Maritime Industrial Services	OS&Y, BB	2005	2"	1500	WCB	8	BS 1873 / NACE MR-01.75
Maritime Industrial Services	OS&Y	2005	4" to 8"	900	WCB	2	BS 1873 / NACE MR-01.75
Nioc - Central Oil Field	Angle Type OS&Y, BB	2005	2" to 4"	1500	WCB	5	BS 1873 / NACE MR-01.75
Nioc - Central Oil Field	OS&Y, BB	2005	2" to 6"	1500	WCB	55	BS 1873 / NACE MR-01.75
Nioc - Central Oil Field	OS&Y, BB	2005	4" to 8"	900	WCB	3	BS 1873 / NACE MR-01.75
Poolad Petro Part Co.	OS&Y, BB	2005	3"	1500	WCB	2	BS 1873 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	2" to 8"	150	WCB	10	BS 1873 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	2"	300	WCB	3	BS 1873 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	3"	300	WCB	1	BS 1873 / NACE MR-01.75
Rampco Int. Tech. Services LLC	OS&Y, BB	2005	4"	300	LCB	1	BS 1873 / NACE MR-01.75
Total E&P Yemen	OS&Y, BB	2004	2"	1500	WCB	8	BS 1873 / NACE MR-01.75
Total E&P Yemen	OS&Y, BB	2004/2005	2"	300	WCB	13	BS 1873 / NACE MR-01.75
Total E&P Yemen	OS&Y, BB	2004/2005	2" to 4"	150	WCB	5	BS 1873 / NACE MR-01.75
CEPSA	OS&Y, BB	2004	6"	150	WCB	1	BS 1873
CEPSA	OS&Y, BB	2004	3"	300	WCB	3	BS 1873
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	3" to 4"	150	WCB	8	BS 1873
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 3"	150	LCB	2	BS 1873
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 4"	150	CF8M	3	BS 1873
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2005	2" to 8"	300	WCB	10	BS 1873
Intecsa (Arya Sasol Project -Irán)	OS&Y, BB	2004/2006	2" to 8"	300	LCB	14	BS 1873
Empresarios Agrupados	OS&Y, BB	2005	4"	600	WC6	2	BS 1873
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 12"	150	WCB	34	BS 1873
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	4"	150	CF8	4	BS 1873
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 6"	150	CF8C	4	BS 1873
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	3" to 6"	300	WCB	7	BS 1873
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2005	4"	300	CF8C	2	BS 1873
Ertisa (Fenol Cumeno Project)	OS&Y, BB	2006	3"	300	CF8M	1	BS 1873
REPSOL-YPF	OS&Y, BB	2006	2" to 3"	300	CF8C	2	BS 1873
REPSOL-YPF	OS&Y, BB	2006/2007	2" to 6"	150	WCB	32	BS 1873
Idom	OS&Y, BB	2006	3"	150	CF8M	1	BS 1873
Idom	OS&Y, BB	2006	3"	1500	WCB	2	BS 1873
Idom	OS&Y, BB	2006	3" to 10"	300	WCB	8	BS 1873
Idom	OS&Y, BB	2006	3" to 6"	150	WCB	5	BS 1873
Técnicas Reunidas	OS&Y, BB	2006	3"	150	WCB	2	BS 1873
Idom	OS&Y, PS	2006	4"	2500	C12A	2	B16.34
REPSOL-YPF	OS&Y, BB	2006	2" to 8"	300	WCB	15	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	3" to 6"	600	WC6	10	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 8"	900	WC1	9	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 10"	300	C5	20	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	6"	150	C5	2	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB & Angle	2006	6"	300	C5	3	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	4" to 6"	150	C12	2	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	4" to 6"	300	C12	4	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB & Angle	2006	4"	600	C12	16	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	3" to 8"	150	CF8M	4	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	3" to 8"	300	CF8M	4	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB & Angle	2006	4"	600	CF8M	8	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006	6"	600	CF8M	2	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	3" to 4"	900	CF8	3	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	2" to 20"	150	WCB	228	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	2" to 20"	300	WCB	264	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2006/2007	2" to 6"	600	WCB	16	BS 1873
Initec (Hualpen-Chile)	OS&Y, BB	2006	2"	300	CF3M	4	BS 1873
Initec (Hualpen-Chile)	OS&Y, BB	2006	2"	300	CF8C	2	BS 1873
Initec (Hualpen-Chile)	OS&Y, BB	2006	2"	300	WC6	6	BS 1873
Initec (Hualpen-Chile)	OS&Y, BB	2006	3" to 4"	600	WCB	4	BS 1873
Initec (Hualpen-Chile)	OS&Y, BB	2006	2" to 6"	300	WCB	21	BS 1873
Teymo (CLH)	OS&Y, BB	2007	10"	300	WCB	6	BS 1873
Ecolaire (BP)	OS&Y, BB	2007	16"	150	WCB	3	BS 1873
Dragados (Minatitlan Project-Pemex)	OS&Y, BB	2007	3" to 6"	900	WC6	15	BS 1873
Bidarte (La Risca Project-Idom)	OS&Y, BB	2009	2 1/2" to 8"	150	WCB	5	BS 1873
Bidarte (La Risca Project-Idom)	OS&Y, BB	2009	3" to 4"	300	WCB	3	BS 1873
Bidarte (La Risca Project-Idom)	OS & PS	2009	4"	900	WCB	1	ASME B16.34

CHECK VALVES

Client	Valve Type	Year	Size	Rating	Material	Qty.	Applicable Code/Std
Amid Engineering& Development Co.	Dual Plate Wafer	2005	4" to 8"	1500	WCB	87	API 594
Diaco	Swing, BB	2005	2"	1500	A105	2	BS 1868 / NACE MR-01.75
Dodsals Pte. Ltd.	Dual Plate Wafer	2003	14"	300	WCB	2	API 594
Dodsals Pte. Ltd.	Swing, BB	2005	6" to 10"	600	WCB	28	BS 1868
Dragon Oil (Turkmenistan) Ltd.	Swing, BB	2004	3"	600	WCB	1	BS 1868 / NACE MR-01.75
Dragon Oil (Turkmenistan) Ltd.	Dual Plate Wafer	2004	4"	1500	LCC	1	API 594 / NACE MR-01.75
Dragon Oil (Turkmenistan) Ltd.	Dual Plate Wafer	2004	6"	900	LCC	1	API 594 / NACE MR-01.75
Dubai Petroleum Co.	Swing, BB	2005	2"	600	LCC	1	BS 1868 / NACE MR-01.75
Dubai Petroleum Co.	Swing, BB	2005	3"	150	WCB	5	BS 1868 / NACE MR-01.75
Enoc Processing Co.	Swing, BB	2005	8"	300	WCB	2	BS 1868 / NACE MR-01.75
Enoc Processing Co.	Dual Plate Wafer	2004	24"	150	WCB	1	API 594 / NACE MR-01.75
Higleig Petroleum Serv. & Invest.	Swing, BB	2004	20"	150	WCB	2	BS 1868 / NACE MR-01.75
Dutco McConnell Dowell (ME) LLC	Dual Plate Wafer	2005	16" to 24"	150	WCB	4	API 594 / NACE MR-01.75
Dutco McConnell Dowell (ME) LLC	Dual Plate Wafer	2005	16" to 24"	300	WCB	4	API 594 / NACE MR-01.75
Nioc - Central Oil Field	Swing, BB	2005	6" to 12"	1500	WCB	8	BS 1868 / NACE MR-01.75
Nioc - Central Oil Field	Swing, BB	2005	16"	600	WCB	2	BS 1868 / NACE MR-01.75
Nioc - Central Oil Field	Swing, BB	2005	18"	900	WCB	1	BS 1868 / NACE MR-01.75
PTEC Eng. & Procurement Services	Swing, BB	2005	20"	600	WCB	2	BS 1868 / NACE MR-01.75
Rampco Int. Tech. Services LLC	Dual Plate Wafer	2004	16"	600	LCC	1	API 594 / NACE MR-01.75
Rampco Int. Tech. Services LLC	Swing, BB	2005	6"	600	WCB	2	BS 1868 / NACE MR-01.75
Rampco Int. Tech. Services LLC	Swing, BB	2003	18" to 24"	150	WCB	6	BS 1868 / NACE MR-01.75
Rampco Int. Tech. Services LLC	Dual Plate Wafer	2003	28"	150	WCB	3	API 594 / NACE MR-01.75
Total E&P Yemen	Dual Plate Wafer	2005	6" to 10"	1500	LCC	5	API 594 / NACE MR-01.75
Total E&P Yemen	Swing, BB	2004	6"	1500	WCB	2	API 594 / NACE MR-01.75
Total E&P Yemen	Dual Plate Wafer	2005	6"	600	LF2	1	API 594 / NACE MR-01.75
Total E&P Yemen	Dual Plate Wafer	2005	8"	1500	CF8M	2	API 594 / NACE MR-01.75
Intecsa (E.H.N.)	Swing, BB	2003	2" to 8"	150	WCB	13	BS 1868
Intecsa (E.H.N.)	Swing, BB	2003	2" to 6"	150	CF3	9	BS 1868
CEPSA	Swing, BB	2004	6"	150	CF8M	1	BS 1868
Intecsa (Arya Sasol Project -Irán)	Swing, BB	2005/2006	2" to 24"	150	WCB	46	BS 1868
Intecsa (Arya Sasol Project -Irán)	Swing, BB	2005	10" to 24"	150	LCB	2	BS 1868
Intecsa (Arya Sasol Project -Irán)	Swing, BB	2005	2"	150	CF8M	2	BS 1868
Intecsa (Arya Sasol Project -Irán)	Swing, BB	2005	2" to 3"	300	WCB	4	BS 1868
Intecsa (Arya Sasol Project -Irán)	Swing, BB	2005	2" to 4"	300	LCB	12	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005	3" to 12"	150	WCB	66	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005	3" to 6"	150	CF8	12	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005	3" to 8"	150	CF8C	18	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005	3" to 8"	300	WCB	22	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005/2006	3" to 4"	300	LCB	5	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005	3" to 10"	300	CF8M	4	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2005/2006	6"	600	LCB	3	BS 1868
Értisa (Fenol Cumeno Project)	Swing, BB	2006	4"	150	WCB	1	API 6D
Értisa (Fenol Cumeno Project)	Swing, BB	2006	4"	150	CF8C	1	API 6D
Értisa (Fenol Cumeno Project)	Swing, BB	2006	4"	150	CF8	1	API 6D
REPSOL - YPF	Dual Plate Wafer	2006	6"	600	WCB	1	API 594
Idom	Swing, BB	2006	3" to 18"	150	CF8M	6	BS 1868
Idom	Swing, BB	2006	3" to 18"	150	WCB	7	BS 1868
Idom	Swing, BB	2006	3" to 4"	600	WCB	4	BS 1868
Idom	Swing, BB	2006	3" to 8"	1500	WCB	5	BS 1868
Idom	Swing, BB	2006	8" to 12"	300	WCB	5	BS 1868
Técnicas Reunidas	Swing, BB	2006	3" to 14"	150	WCB	5	BS 1868
Técnicas Reunidas	Swing, BB	2006	3" to 4"	150	CF8	1	BS 1868
Técnicas Reunidas	Swing, BB	2006	8"	150	CF3M	4	BS 1868
Idom	Stop Check, PS	2006	14"	2500	C12A	2	B16.34
REPSOL - YPF	Swing Check	2006	12"	600	CF8C	1	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006	12"	300	WC9	2	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	3" to 12"	600	WC6	5	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	4" to 20"	900	WC6	22	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	6" to 10"	900	WC1	16	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	3" to 18"	300	C5	12	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	6" to 16"	600	C5	12	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006	6"	600	C12	1	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006	4" to 14"	300	C12	23	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	2" to 20"	150	WCB	159	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	3" to 18"	300	WCB	145	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006	6" to 8"	300	CF8M	12	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006	10" to 12"	600	CF8M	6	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006	16"	150	CF8M	1	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	2" to 6"	900	CF8	7	BS 1868
Dragados (Minatitlan Project-Pemex)	Swing, BB	2006/2007	10" to 14"	600	WCB	8	BS 1868
CEPSA	Swing, BB	2006	8" to 18"	150	WCB	5	BS 1868
Initec (Hualpen-Chile)	Swing, BB	2006	2" to 6"	300	CF3M	3	BS 1868
Initec (Hualpen-Chile)	Swing, BB	2006	2"	150	CF3M	2	BS 1868
Initec (Hualpen-Chile)	Swing, BB	2006	3"	300	CF8C	2	BS 1868
Initec (Hualpen-Chile)	Swing, BB	2006	2" to 3"	300	WC6	4	BS 1868

**JC** Fábrica de válvulas, s.a.

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CHECK VALVES

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Client	Valve Type	Year	Size	Rating	Material	Qty.	Applicable Code/Std
Initec (Hualpen-Chile)	Swing, BB	2006	3" to 6"	600	WCB	3	BS 1868
Initec (Hualpen-Chile)	Swing, BB	2006	2" to 8"	300	WCB	16	BS 1868
CLH	Swing, BB	2007	8" to 12"	150	WCB	7	BS 1868
CLH	Swing, BB	2007	4"	150	CF3	1	BS 1868
Bidarte (La Risca Project-Idom)	Wafer RF	2009	2 1/2" to 20"	150	WCB	18	API 594
Bidarte (La Risca Project-Idom)	Wafer RF	2009	16"	300	WCB	1	API 594
Bidarte (La Risca Project-Idom)	Swing, BB	2009	3" to 4"	150	WCB	5	BS 1868
Bidarte (La Risca Project-Idom)	Swing, BB	2009	2 1/2"to 18"	300	WCB	35	BS 1868
Bidarte (La Risca Project-Idom)	Swing, PS	2009	4" to 10"	900	WCB	5	ASME B16.34
Bidarte (La Risca Project-Idom)	Swing, PS	2009	4"	1500	WCB	2	ASME B16.34
Bidarte (Ingerteam)	Swing, BB	2009	8" to 20"	300	WCB	21	BS 1868

**JC<sup>®</sup> is on the APPROVED MANUFACTURER LIST of the following:****1. ENGINEERING COMPANIES**

- ABB GLOBAL ENGINEERING (UNITED KINGDOM)
- ABB LUMMUS GLOBAL B.V. (HOLLAND)
- ABB LUMMUS GLOBAL GmbH (GERMANY)
- AKER (NORWAY)
- ALBANNA ENGINEERING (UNITED ARAB EMIRATES)
- BASSE SAMBRE (BELGIUM)
- BECHTEL (UNITED KINGDOM)
- COMPRIMO (BELGIUM)
- DE SMET (BELGIUM)
- DEUTSCHE BABCOCK (SPAIN)
- DURO FELGUERA (SPAIN)
- ENCORDIA ENGINEERING CO. LTD. (CANADA & CHINA)
- FOSTER WHEELER ENERGY LTD. (U.K.)
- FOSTER WHEELER IBERIA, S.A. (SPAIN)
- HONE & OLSEN I/S ENGINEERING (DENMARK)
- IDOM (SPAIN)
- INITEC (SPAIN)
- INTECSA (SPAIN)
- INTEDRA (SPAIN)
- INTEIN (SPAIN)
- J. RAY MCDERMOTT MIDDLE EAST INC. (UNITED ARAB EMIRATES)
- JOHN BROWN ENGINEERING & CONTR. LTD. (UNITED KINGDOM)
- JORDAN ENGINEERING UK LTD. (UNITED KINGDOM)
- KEMIRA ENGINEERING OY - (FINLAND)
- KTI - KINETICS TECHNOLOGY INTERNATIONAL BV (HOLLAND)
- KRUPP UHDE (GERMANY)
- LEND LEASE (AUSTRALIA & THAILAND)
- LINDE KCA DRESDEN GmbH (GERMANY)
- LURGI (SPAIN)
- MCDERMOTT ENGINEERING (EUROPE) LTD. (UNITED KINGDOM)
- NATRON SB ENGINEERING CO. (BRASIL)
- PALADON (Engineering) LTD. (UNITED KINGDOM)
- PIDEC (IRAN)
- SENER, S.A. (SPAIN)
- SERIDOM (SPAIN)
- STORK (HOLLAND)
- TEBODIN (HOLLAND)
- TECHINT (ARGENTINA)
- TECHNIP IBERIA (SPAIN)
- TECHNIP (FRANCE)
- TECHNIP BENELUX B.V. (HOLLAND)
- TECNICAS REUNIDAS, S.A. (SPAIN)
- TECNIMONT (ITALY)
- VOEST-ALPINE INDUSTRIEANLAGENBAU GesmbH (AUSTRIA)
- WARTSILA

**2. CONTRACTORS & OEM's**

- ABB DOLMEL LTD. (SWITZERLAND)
- ABB GENERACION, S.A. (SPAIN)
- ABERDEEN, S.A. (SPAIN)
- AIRSYS INT. (UNITED KINGDOM)
- AXIMA (SPAIN)
- BALCKE DURR (FRANCE & SPAIN)
- DE SMET (BELGIUM & SPAIN)
- DEGREMONT (FRANCE)
- DEUTSCHE BABCOCK, S.A. (SPAIN)
- ELECNOR (SPAIN)
- ELSTER INSTROMET (BELGIUM)
- EMMSA (SPAIN)
- FMC (FRANCE)

- GEC ALSTHOM (FRANCE)
- ISOLUX WAT (SPAIN)
- ISOTRON, S.A. (SPAIN)
- JOHN ZINK EUROPE, S.A. (LUXEMBOURG)
- KVAERNER (NORWAY)
- KVAERNER PALADON LTD. (UNITED KINGDOM)
- M.A.S.A. (SPAIN)
- NASH EUROPE B.V. (THE NETHERLANDS)
- M.I.S. - MARITIME INDUSTRIAL SERVICES Co. LTD. (UNITED ARAB EMIRATES)
- PILLARD COMBUSTION EQUIPMENT & CONTROL SYSTEMS (FRANCE)
- SIDERNAVAL (SPAIN)
- UBE (SPAIN)
- VIZDUR (SPAIN)

### 3. OIL & GAS

- ABU DHABI Co. FOR ONSHORE OIL OPERATION (UNITED ARAB EMIRATES)
- AL FURAT PETROLEUM COMPANY (AFPC) (SYRIA)
- ALARCON (UNITED ARAB EMIRATES)
- BANDAR ABBAS OIL REFINING CO. (N.I.O.C.) (IRAN)
- BP SHARJAH OIL CO. (UNITED ARAB EMIRATES)
- BP EXPLORATION (UNITED KINGDOM)
- BP OIL LTD. (UNITED KINGDOM)
- BP OIL ESPAÑA, S.A. (SPAIN)
- CEPSA - COMPAÑIA ESPAÑOLA DE PETROLEO, S.A. (SPAIN)
- CHEVRON PHILLIPS - TESSENDERLO (BELGIUM)
- C.L.H. - COMPAÑIA LOGISTICA DE HIDROCARBUROS, S.A (SPAIN)
- DALEEL PETROLEUN LLC (SULTANATE OF OMAN)
- DOVE ENERGY LIMITED (YEMEN)
- DRAGON OIL (TURKMENISTAN) LTD.
- DUBAI PETROLEUM COMPANY (UNITED ARAB EMIRATES)
- EMIRATES GENERAL PETROLEUM CORPORATION (UNITED ARAB EMIRATES)
- ENAGAS (SPAIN)
- ERTISA (SPAIN)
- ESSO U.K. (UNITED KINGDOM)
- GASCAT (BRASIL)
- IRANIAN CENTRAL OIL FIELDS CO. (N.I.O.C.) (IRAN)
- JORDAN PETROLEUM REFINERY CO.
- KALA LTD. (N.I.O.C.) (IRAN)
- KUWAIT NATIONAL PETROLEUM Co. (K.S.C.) (KUWAIT)
- KUWAIT OIL Co. (KUWAIT)
- MAERSK OIL QATAR AS - DOHA (QATAR)
- MÆRSK OLIE OG GAS AS (DENMARK)
- OCCIDENTAL OF OMAN INC. (OMAN)
- PAKISTAN PETROLEUM LIMITED (PPL) (PAKISTAN)
- PEMEX - PETROLEOS MEXICANOS (MEXICO)
- PETROBRAS (BRASIL)
- PETRONOR, S.A. (SPAIN)
- Q.P. - QATAR PETROLEUM (QATAR)
- RECOPE (COSTA RICA)
- REPSOL EXPLORACION, S.A. (SPAIN)
- REPSOL YPF (SPAIN)
- SHARJAH OIL REFINING CO. (UNITED ARAB EMIRATES)
- SONATRACH (ALGERIA)
- STATOIL (NORWAY)
- TOTAL E & P
- VARIMEX - GDANSK REFINERY (POLLAND)
- WINTERSHALL (NORTH SEA)
- VIRGINIA OIL Co. (INDONESIA)

### 4. CHEMICAL AND PETROCHEMICAL INDUSTRY

- AKZO (BELGIUM)
- AMOCO CHEMICAL Co. (BELGIUM)
- ANWIL S.A. WLOCLAWEC - VINYLE CHLORYDE MONOMER PLANT (POLLAND)
- ASPPC - ALEXANDRIA SPECIALTY PETROLEUM PRODUCTS COMPANY (EGYPT)

- ATOFINA, S.A. (SPAIN)
- AXCL GULF FZE (UNITED ARAB EMIRATES)
- BANDAR IMAM HIGH DENSITY POLYETHYLENE (IRAN)
- BASF (HOLLAND, SPAIN, UNITED KINGDOM & U.S.A.)
- BAYER RUBBER N.V. ZWIJNDRECHT PLANT (BELGIUM)
- BILBAINA DE ALQUITRANES, S.A. (SPAIN)
- BP CHEMICALS (UNITED KINGDOM)
- CARBUROS METÁLICOS (SPAIN)
- CHINA DUSHANZI POLYPROPYLENE PLANT (CHINA)
- CHINA TIANJIN POLYPROPYLENE PLANT (CHINA)
- CIBA, S.A. (BRASIL, SWITZERLAND & TAIWAN)
- CITROL LUBRICANTS (UNITED ARAB EMIRATES)
- CLARIANT - SUZANO - S.P. - (BRASIL)
- COPELUL (BRASIL)
- CRIMIDESA CRYSTALLISATION PLANT - BURGOS (SPAIN)
- DOW HALTERMANN (BELGIUM)
- DOW CHEMICAL (WORLDWIDE)
- DSM HIGH PERFORMANCE FIBERS B.V. - (HOLLAND)
- DSM ELASTOMEROS DO BRASIL, LDA. (BRASIL)
- DSM RESINS ESPAÑA, S.A. (SPAIN)
- DUSHANZI & TIANJIN POLYPROPYLENE PLANTS (CHINA)
- EASTMAN CHEMICAL (ARGENTINA, HOLLAND & SPAIN)
- EC ERDÖLCHEMIE GmbH (GERMANY)
- ELF ATOCHEM (FRANCE, HOLLAND & SPAIN)
- ELIOKEM (FRANCE)
- ENOC PROCESSING COMPANY (UNITED ARAB EMIRATES)
- ERQUIMIA (SPAIN)
- FAUJI FERTILIZER COMPANY LTD. (PAKISTAN)
- FORMOSA PETROCHEMICAL CORPORATION - ( TAIWAN)
- GENERAL ELECTRIC PLASTICS ESPAÑA, S.A. - (SPAIN)
- GENERAL ELECTRIC ADVANCED MATERIALS (HOLLAND)
- GIVAUDAN (SWITZERLAND & SPAIN)
- G.P.M. (SPAIN)
- HOECHST AG (GERMANY)
- HOFFMANN LA ROCHE (SWITZERLAND)
- ICI - WILTON - TEESIDE (U.K.)
- INDUSTRIAL QUIMICA DEL NALON, S.A. - REFINED NAPHTALINE PLANT - TRUBIA (SPAIN)
- INQUINASA - INDUSTRIAS QUIMICAS DE NAVARRA, S.A. (SPAIN)
- INTER CHEM TERMINAL FZCO (UNITED ARAB EMIRATES)
- INTERNATIONAL LUBE FZC (UNITED ARAB EMIRATES)
- IPIRANGA PETROQUIMICA, S.A. - TRIUNFO (BRASIL)
- IRAN PETROCHEMICAL COMMERCIAL CO. (IPCC) (IRAN)
- ISO OCTANE COMPANY (UNITED ARAB EMIRATES)
- KAO CORPORATION, S.A. (SPAIN)
- KERR MCGEE PIGMENTS (HOLLAND)
- MASHAL DARAN PETROCHEMICAL COMPANY – KERMANS SHAH (IRAN)
- NAN YA PLASTICS CORPORATION (TAIWAN)
- NATIONAL OIL STORAGE COMPANY FZC (UNITED ARAB EMIRATES)
- NOVARTIS (SWITZERLAND)
- OMAN CHEMICALS INDS. CO. (SULTANATE OF OMAN)
- OPP PETROQUIMICA, S.A. (BRASIL)
- ORGAMOL, S.A. (FRANCE & SWITZERLAND)
- PETRESA - PARAFINES PLANT - ALGECIRAS (SPAIN)
- PETROCHEM MIDDLE EAST FZE (UNITED ARAB EMIRATES)
- PIDEC – BANDAR IMAM (IRAN)
- PKN ORLEN, S.A. (POLAND)
- POLYMED (ALGERIA)
- PROQUIMED - CASTELLON (SPAIN)
- REPSOL QUIMICA, S.A. (SPAIN)
- RHONE POULENC - RHONE POULENC CHIMIE - RHODIA (CHINA, FRANCE & SPAIN)
- ROCHE (SWITZERLAND)
- SAUDI EUROPEAN PETROCHEMICAL Co. (SAUDI ARABIA)
- SIMO (SWITZERLAND)
- SEPPIC (FRANCE)
- SINDTEC, S.A. - POLO ARARA (ARGENTINA)

- SINOPEC ZHONGYUANG HUA DALI FINE CHEMICAL CO. (CHINA)
- SOLVAY, BENELUX, S.A. - JEMEPPE PLANT (BELGIUM)
- SOLVAY, S.A. - TORRELAVEGA H<sub>2</sub>O<sub>2</sub> PLANT & MARTORELL PLANT (SPAIN)
- STINO - (BELGIUM)
- TABRIZ PETROCHEMICAL Co. (IRAN)
- TORAY PLASTICS EUROPE, S.A. (FRANCE)
- U.C.B. - UNION CHEMIE BELGE, S.A. (BELGIUM)
- VARIMEX - ZAKLADY CHEMICZNE (POLAND)
- VOPAK HORIZON FUJAIRAH LTD. (UNITED ARAB EMIRATES)

## 5. GAS TRANSPORTATION AND DISTRIBUTION

- BAHIAGAS (BAHIA -BRASIL)
- BRITISH GAS (UNITED KINGDOM)
- BULGARGAZ (BULGARIA)
- C.E.G. (RIO DE JANEIRO - BRASIL)
- CEGAS – GAS DE VALENCIA (SPAIN)
- CYLINGAS (UNITED ARAB EMIRATES)
- COGEGAZ (BELGIUM)
- COMPAGAS (PARANÁ - BRASIL)
- DG - DANISH GAS (DENMARK)
- DUBAI NATURAL GAS CO. LTD.
- EMIRATES GAS (UNITED ARAB EMIRATES)
- ENAGAS (SPAIN)
- GAS DE ARAGON (SPAIN)
- GAS DE ASTURIAS (SPAIN)
- GAS DE CASTILLA – LEÓN (SPAIN)
- GAS DE EUZKADI (SPAIN)
- GAS NATURAL SDG S.A. (SPAIN)
- GAS NATURAL (SOROCABA - BRASIL)
- GASLINK NIGERIA LTD. - IKEJA DISTRIBUTION NETWORK (NIGERIA)
- GEOPLIN (SLOVENIA)
- INA NAFTAPLIN (CROATIA)
- MOL RT (HUNGARY)
- N.I.G.C. - NATIONAL IRANIAN GAS Co. (IRAN)
- NIS GAS (SERBIA)
- NIS ENERGOGAS (SERBIA)
- PETROGAL BP BOREALIS J.V. - SINES LPG STORAGE (PORTUGAL)
- PRIMAGAZ (FRANCE)
- REPSOL BUTANO, S.A. (SPAIN)
- SCGAS (SANTA CATERINA - BRASIL)
- SHELL TERMINAL LANKA LTD. - (SRI LANKA)
- SULGAS (RIO GRANDE DO SUL - BRASIL)
- TOTALGAZ (FRANCE)
- TRANSGAS (CZECH REPUBLIC)

## 6. POWER GENERATION

- ADOLFO LOPEZ MATEOS POWER PLANT - GROUPS 3, 4, 5 & 6 - (MEXICO)
- CIA. SEVILLANA DE ELECTRICIDAD, S.A. - CRISTOBAL COLON POWER PLANT (SPAIN)
- ELCOGAS COMBINED CYCLE POWER PLANT (SPAIN)
- ENDESA (SPAIN)
- FEDERAL ELECTRICITY & WATER AUTHORITY (FEWA) (UNITED ARAB EMIRATES)
- GENERAL ELECTRIC (WORLDWIDE AGREEMENT FOR METAL SEATED VALVES IN GAS TURBINES)
- GEOTERMIA PYRZYCE (POLAND)
- GUJARATH PAGUTHAN ENERGY CORP. PVT. LTD. (INDIA)
- HIDRO-VEVEY (SWITZERLAND)
- IBERDROLA, S.A. - COFRENTES NUCLEAR POWER PLANT (SPAIN)
- JORF LA SFAR POWER PLANT (MAROCCO)
- PETROPOWER (CHILE)
- PUBLIC POWER CORPORATION (GREECE)
- SHARJAH ELECTRICITY & WATER AUTHORITY (SEWA) (UNITED ARAB EMIRATES)
- YAHEKOU POWER PLANT (CHINA)

## 7. STEEL MILLS

- AÇO MINAS GERAIS (BRASIL)
- ARCELOR (SPAIN)
- COCKERILL, S.A. (BELGIUM)
- HOOGOVS STEEL MILL (HOLLAND)
- P.T. KRATAU STEEL (INDONESIA)
- SIDMAR (BELGIUM)
- WUHAN IRON & STEEL CORP. (CHINA)

## 8. CAR INDUSTRY

- CITROEN HISPANIA, S.A. (SPAIN)
- FORD ESPAÑA, S.A. (SPAIN)
- GENERAL MOTORS ESPAÑA, S.A. (SPAIN)
- GOOD YEAR TIRE RUBBER - POLYMERS - BEAUMONT TX. (U.S.A.)
- MICHELIN (FRANCE)
- NISSAN MOTOR IBERICA, S.A. (SPAIN)
- RENAULT ESPAÑA, S.A. (SPAIN)
- SEAT (SPAIN)
- UNIROYAL (BELGIUM)

## 9. GENERAL INDUSTRY

- AÇO MINAS GERAIS, S.A. (BRASIL)
- ADYARD (UNITED ARAB EMIRATES)
- AIR PRODUCTS PLC (U.K.)
- ASTILLEROS ESPAÑOLES, S.A. (SPAIN)
- CARGIL (BELGIUM)
- CERN (EUROPEAN CENTRE FOR NUCLEAR RESEARCH) (FRANCE & SWITZERLAND)
- DUBAI ALUMINIUM COMPANY LIMITED (DUBAI) (UNITED ARAB EMIRATES)
- DUBAI DRYDOCKS (UNITED ARAB EMIRATES)
- FELS SETAL (BRASIL)
- FUJI PHOTO FILM B.V. (HOLLAND)
- GLAVERBEL (BELGIUM)
- HOUSTON AIRPORT (U.S.A.)
- INTERNATIONAL PAPER POLAND
- JOTUN PAINTS (AUSTRALIA & THAILAND)
- KRANJI SEWAGE TREATMENT PLANT (SINGAPORE)
- NATIONAL TITANIUM DIOXIDE LTD. (SAUDI ARABIA)
- MALAYSIA SHIPYARD & ENGINEERING SDN BHD (MALAYSIA)
- PRAXAIR ESPAÑA, S.A. CO2 PLANT - SOTIELLO (SPAIN)
- S.E. CARBUROS METALICOS, S.A. (SPAIN)
- SCOTT, S.A. (SPAIN)
- SERVICES INDUSTRIELS DE GENEVE (WATER TREATMENT) (SWITZERLAND)
- SSB-STOREBAELT I/S - GREAT BELT TUNNEL (DENMARK)
- TERMINALES PORTUARIAS, S.A. (SPAIN)
- TERQUIMSA (SPAIN)
- TIRME WASTE INCINERATION PLANT (SPAIN)
- UNION NAVAL DE LEVANTE, S.A. (SPAIN)
- VERLIPAK (BELGIUM)





## 4.- End Users Approvals



## Certificado de Registro e Classificação Cadastral - CRCC

Emitente No. Rev.  
MATERIAIS 018810 00

Data Emissao  
12 de Agosto de 2009

Data Validade  
10 de Agosto de 2010

Fornecedor  
**JC FABRICA DE VALVULAS S/A**

**Este CRCC substitui e  
cancela os anteriores.**

CERTIFICAMOS que a empresa acima identificada encontra-se regularmente inscrita no Cadastro de Fornecedores de Materiais e/ou Serviços da PETROBRAS e habilitada para as especialidades indicadas conforme relação em anexo.

A inscrição, representada pelo presente Certificado, não importa em obrigação de contratar, ficando o titular do mesmo sujeito aos procedimentos licitatórios pertinentes, quando for o caso.

Este certificado restringe a participação dessa empresa, bem como de seu Representante Legal, em licitações internacionais, atendendo tão somente aos requisitos de habilitação de empresa estrangeira.

Representante Legal: JC-TL VÁLVULAS DO BRASIL LTDA  
CNPJ/CPF: 02.293.106/0001-56

RESSALTAMOS A IMPORTÂNCIA DE COMUNICAR-NOS QUALQUER ALTERAÇÃO EM SEUS DADOS CADASTRAIS (ENDEREÇO COMPLETO, DDD, TELEFONE, FAX, e-MAIL, PESSOA DE CONTATO, ETC.), A FIM DE EVITAR PREJUÍZOS NO RELACIONAMENTO ENTRE ESSA EMPRESA E A PETROBRAS.

O USO INDEVIDO DESTES CRCC CONSTITUI FALTA GRAVE PASSÍVEL DE SANÇÕES NO CADASTRO DE BENS E SERVIÇOS DA PETROBRAS, PODENDO A EMPRESA FICAR IMPEDIDA DE TRANSACIONAR COM TODO O SISTEMA PETROBRAS.

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Gerente do Cadastro de Fornecedores



## Certificado de Registro e Classificação Cadastral - CRCC

Emitente No. Rev.  
MATERIAIS 018810 00

Pág. 002

Data Emissao

12 de Agosto de 2009

Data Validade

10 de Agosto de 2010

Fornecedor

**JC FABRICA DE VALVULAS S/A**

**Este CRCC substitui e  
cancela os anteriores.**

Este fornecedor está habilitado a fornecer as seguintes especialidades/materiais:

Atenção! Quando do processo de contratação/compra, a habilitação de cada material deverá ser confirmada no sistema de informação da PETROBRAS (SAP R/3), em decorrência de possíveis alterações na qualificação técnica que possam ocorrer durante a vigência do presente CRCC.

### Famílias de material :

**001 - 98.000.104**

Válvula esfera metálica ;convencional ;corpo em aço carbono ;

Requisitos Técnicos: ISO 9001

Detalhamento:

NORMAS API 6D, ANSI B16.34 E BS 5351.

DIAMETRO DE 1/2 A 16 IN

CLASSE PRESSAO DE 150 A 800

DIAMETRO DE 2 IN A 12 IN

CLASSE PRESSAO 1500

Tipo de Inspeção : C - Acompanhamento de fabricação

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**002 - 98.000.105**

Válvula esfera metálica ;convencional ;corpo em aço liga ;

Requisitos Técnicos: ISO 9001

Detalhamento:

NORMAS API 6D, ANSI B 16.34 E BS 5351.

DIAMETRO DE 1/2 A 16 IN

CLASSE PRESSAO DE 150 A 800.

Tipo de Inspeção : C - Acompanhamento de fabricação

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Certificado de Registro e Classificação Cadastral - CRCC

Emitente No. Rev.  
MATERIAIS 018810 00

Pág. 003

Data Emissao  
12 de Agosto de 2009

Data Validade  
10 de Agosto de 2010

Fornecedor  
JC FABRICA DE VALVULAS S/A

Este CRCC substitui e  
cancela os anteriores.

**003 - 98.000.106**

Válvula esfera metálica ;convencional ;corpo em aço inoxidável ;

Requisitos Técnicos: ISO 9001  
Detalhamento:  
NORMAS API 6D, ANSI B16.34 E BS 5351.  
DIAMETRO DE 1/2 A 16 IN  
CLASSE PRESSAO DE 150 A 800.

Tipo de Inspeção : C - Acompanhamento de fabricação

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**004 - 98.000.373**

Válvula de controle ;TIPO ESFERA ;

Requisitos Técnicos: ISO 9001  
Detalhamento:  
NORMA: API 6D.  
DIAMETROS: 1/2 A 16 IN  
CLASSE DE PRESSÃO: 150LBS A 1500LBS..  
NOTA: TIPO ON-OFF COM CONTROLADOR PNEUMÁTICO TP ROTATIVO

Tipo de Inspeção : B - Final fábrica com testemunho

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**005 - 98.000.419**

Atuador pneumático, tp Diafragma.

Requisitos Técnicos: ISO 9001  
Detalhamento:  
TIPO ROTATIVO; NORMA NAMUR VDI/VDE  
AÇÃO SIMPLES OU DUPLA AÇÃO, COM OU SEM RETORNO POR MOLLA

Tipo de Inspeção : B - Final fábrica com testemunho

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Certificado de Registro e Classificação Cadastral - CRCC

Emitente No. Rev.  
MATERIAIS 018810 00

Pág. 004

Data Emissao  
12 de Agosto de 2009

Data Validade  
10 de Agosto de 2010

Fornecedor  
JC FABRICA DE VALVULAS S/A

Este CRCC substitui e  
cancela os anteriores.

**006 - 98.000.505**

Válvula esfera metálica ;três vias ;corpo em aço carbono ;

Requisitos Técnicos: ISO 9001

Detalhamento:

TIPO PASSAGEM PLENA; 3 VIAS EM "T";

NORMAS API 6D, BS 5351 E ANSI B16.34;

DIÂMETRO DE 1 À 6 IN; CLASSE PRESSÃO DE 150.

Tipo de Inspeção : C - Acompanhamento de fabricação

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**007 - 98.000.506**

Válvula esfera metálica ;três vias ;corpo em aço inoxidável ;

Requisitos Técnicos: ISO 9001

Detalhamento:

TIPO PASSAGEM PLENA; 3 VIAS EM "T";

NORMAS API 6D, BS 5351 E ANSI B16.34;

DIÂMETRO DE 1 À 6 IN; CLASSE PRESSÃO DE 150.

Tipo de Inspeção : C - Acompanhamento de fabricação

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**FACSIMILE MESSAGE**

Abu Dhabi Gas Liquefaction Company Limited

P.O. Box 3500, Abu Dhabi, U.A.E.



Fax No. (9712) 6065599/6065451

To

Pages: 1

FAX NUMBER	:	02-211934
NAME	:	KGK. NAYAR
TITLE	:	TECHNICAL SALES ENGINEER
COMPANY	:	UNIVERSAL TECHNICAL L.L.C.
DATE	:	14.05.2000

**SUBJECT: Registration & Pre-Qualification with ADGAS (101903)**

**FACSMILIE MESSAGE**

With reference to your letter dated 07.05.2000, please be informed that, based on the evaluation of your principal's Pre-qualification Documents, **JC FABRICA DE VALVULAS, S.A.** has been included in our records as a possible source for supply of the following:

**-BALL VALVE**

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

*[Handwritten Signature]*  
**Ibrahim Al Oursi**  
 Head of Support Services

RECEIVED  
 15 MAY 2000

**FACSIMILE MESSAGE**

To : M/s. Kaddas Oilfields Svcs & Trading Co.  
Attn.: General Manager

Fax No.: 5510488-551976  
Abu Dhabi

From : Procurement Support Section - Proc. Services Div

Fax No.: 6027465

Abu Dhabi National Oil Company (ADNOC)  
P.O. Box 898 - Tel. (9712) 6020000 Abu Dhabi U.A.E.

Ref. No. : TKR/5/SI/372/99  
Subject : Registration & Pre-Qualification with ADNOC

Date : 18 JUL 1999

Response Required:  Yes /  No  
Response Date: \_\_\_\_\_


With reference to your fax no. KOST/Adnoc/562/99, dated 8.7.99, please be informed that, based on the evaluation of your Principal's Prequalification Document, M/s. JC Fabrica De Valvulas. S.A. - Spain, has been included in our records as a possible source for supply of the following:

- ◆ Valves : Ball
- ◆ Valves : Special / Non Standard Ball Valves

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

Please quote your Registration No. P-030520 in all future correspondence.

Regards

  
Toufic Allaf  
Head, Procurement Support Section

If you do not receive all the pages,  
please call Telephone : 6027214

No. of pages to follow:

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

HALO



**BOILERS AND PRESSURE VESSELS  
SAFETY DIVISION**  
3300 Bloor Street West  
4th Floor, West Tower  
Toronto, Ontario  
CANADA M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

**JC**

**STATUTORY DECLARATION  
Registration of Fittings**

I, FRANCISCO ANTONIO MORAGREGA AUSINA, QUALITY ASSURANCE MANAGER

of JC Fábrica de válvulas, s.a.

Located at Cantabria 2 - Pol. Ind. Les Salines - 08830 Sant Boi de Llobregat - Spain - Telephone # + 34 93 654 86 86  
- Fax # + 34 93 654 86 87

do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels comply with all of the requirements of

ASME B16.34

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2000 which has been verified by the following authority, BUREAU VERITAS

The items covered by this declaration, for which I seek registration, are category C (Gate, Globe and Check valves) type fittings. In support of this application, the following information and/or test data are attached as follows:

ISO 9001 certificate, Product Data Sheets (27), Calculations, Assembly & Maintenance Manual, Photographs showing marks cast on valves body, Identification plate.

Declared before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_\_\_\_  
the 20 day of July AD 2005.

Commissioner for Oaths:

(Printed name)

(Signature)

*[Handwritten Signature]*  
Boilers and Pressure Vessels Safety Division  
(Signature of Declarer)

**FOR OFFICE USE ONLY**

To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels and CSA Standard B51 and is accepted for registration in Category C.

CRN: 0C10390.5

Registered by: R. HATAMI

Dated: AUG 25 / 2005

NOTE: This registration expires on AUG 25 / 2015

NOTE: REGISTRATION FOR  
GATE, GLOBE + CHECK  
VALVES, CLASS ISO TO  
2500 SIZE 2" - 48"

AS LISTED IN JC FABRICA DE VALVULAS, S.A. DESIGN + TECHNICAL BOOK

Document Name: TSSA Statutory Declaration Form, Aug 24, 2001, Rev.01.doc

**REGISTERED**  
CRN: 0C10390.5  
Signed: R.H.  
Date: AUG 25 / 2005



JC FABRICA DE VALVULAS  
Mr Quality Manager  
Avenida del Carrilet 219  
08907 HOSPITALET DE LLOBREGAT  
BARCELONE  
ESPAGNE

**Objet : Notification d'Agrément .**  
Réf. Agrément : n° 98 / 306

le 19 janvier 1999

Messieurs,

Par la présente le Comité Technologie du Groupe ELF constitué par ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM vous notifie votre agrément pour le ou les domaines ci-après :

2052 Robinets à tournant sphérique

Cet agrément est strictement limité à l'établissement ou au site dont les caractéristiques sont rappelées ci-après :

Idem ci-dessus

Cet agrément n'est en aucune façon valable pour un autre site ou un autre établissement de votre Société, une autre société de votre Groupe, ou tout autre entité juridique à laquelle votre Société pourrait être liée.

Cet agrément est limité aux activités de ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM qui s'efforceront, dans la mesure du possible, de sélectionner le ou les soumissionnaires éventuels, en vue de l'attribution d'un marché de fournitures, sur la liste des sociétés agréées.

ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM se réservent le droit de modifier à tout moment les critères qu'elles ont retenus pour vous agréer dans le(s) domaine(s) défini(s) ci-dessus. Cette modification, qui pourrait se manifester par l'envoi de nouveaux questionnaires, ainsi que par la décision d'effectuer un audit complémentaire, vous serait notifiée en temps utile.

L'agrément qui vous est notifié s'appuie sur les renseignements que vous nous avez fournis :

- réponses aux questionnaires,
- documentations jointes,
- lors d'audits éventuels,

Compte tenu de ce qui précède, vous êtes tenus d'informer dans les plus brefs délais la Commission Agrément-Homologation du C.T.G de tout changement important survenant dans votre Société. Ce changement peut concerner la Direction générale, l'actionnariat, l'outil industriel, la localisation géographique, etc...

COMITÉ TECHNOLOGIE GROUPE

Vous devrez également confirmer systématiquement par écrit à la Commission Agrément-Homologation le premier octobre de chaque année, dans la mesure où votre Société serait déjà agréée depuis plus de douze mois, qu'aucun changement important n'est survenu dans votre Société par rapport aux renseignements que vous nous avez fournis.

En cas de faute grave, de renseignements inexacts, d'absence de notification de changement important, ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM se réservent le droit de vous retirer immédiatement et sans préavis, l'agrément qui vient de vous être accordé. L'agrément n'est pas donné à titre définitif.

Pour gérer la liste des Fournisseurs agréés, ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM prendront en compte tous les événements importants qui pourraient survenir, tels que :

- a ) les satisfactions ou les difficultés rencontrées à l'occasion de l'exécution d'une commande,
- b ) la qualité de la réponse aux appels d'offres,
- c ) les informations que vous nous fournirez annuellement ou occasionnellement;
- d ) toute autre information qui pourrait être incidemment recueillie.

Dans le cas où les informations collectées en a), b), c) ou d) ci-dessus, ou des modifications des critères d'agrément pourraient entraîner un retrait de l'agrément, ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM vous notifieront leur intention de retirer cet agrément, celui-ci n'étant effectivement retiré qu'à défaut pour le Fournisseur d'améliorer sa situation, ou de satisfaire aux nouvelles conditions, dans un délai raisonnable, qui normalement ne pourra excéder trois mois.

En aucun cas votre agrément ne peut-être considéré comme vous conférant un droit quelconque à l'égard de ELF AQUITAINE EXPLORATION PRODUCTION FRANCE, ELF EXPLORATION PRODUCTION, ELF ANTAR FRANCE et ELF ATOCHEM ; ces dernières ne sauraient en aucune façon, voir leur responsabilité engagée, notamment en cas de retrait de cet agrément, pour des motifs dont elles se réservent exclusivement l'appréciation.

Pour tout ce qui concerne le présent agrément, nous vous demandons d'adresser votre correspondance au :

**Comité Technologie du Groupe elf  
Commission Agrément-Homologation**

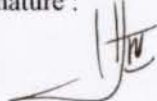
**Centre Technique Elf Atochem  
Chemin de la Lône B.P. 32  
69492 Pierre-Bénite Cedex (France)**

Nous vous demandons de confirmer votre acceptation des termes de la présente lettre en nous renvoyant un exemplaire après avoir apposé votre signature.

Nous vous prions d'agréer, Messieurs, l'expression de nos sentiments distingués.

**Pour la Commission Agrément-Homologation :**

Nom : M. ANCIAN  
Fonction : (Animateur)  
Date : 10/2/1999  
Signature :



**Pour le C.T.G. :**

Nom : P. CASTILLON  
Fonction : (Président)  
Date : 22/02/99  
Signature :



**Pour le Fournisseur :**

Nom : J. CLARET  
Fonction : GERANT  
Date : 23/3/99  
Signature :



Cachet :



اينوك  
ENOC

14 July 2003

TO WHOMSOEVER IT MAY CONCERN:

We wish to confirm that JC FABRICA Valves from Spain is an approved brand in our refinery and we have been satisfactorily using JC Fabrica GATE, GLOBE, CHECK & BALL VALVES in our plant with a few of them in sizes 20", 30" & 40" GATES.

Apart from supplying quality products with on-time deliveries, JC has an excellent after sales service to back-up the end-user.

We wish JC Middle East all the very best in their future endeavors.

By: R. E. Dy-Liacco  
Project Engineer  
Emirates National Oil Company



**INTERNAL MEMO مذكرة داخلية**  
**VENDOR EVALUATION COMMITTEE**

M/S JC FABRICA DE VALVULAS S.A.,  
Cantabria, 2. Pol. Ind. Les Salines,  
08830 Sant Boi de Llobregat, Barcelo8907  
Spain

DATE: 29/03/2009  
REF: V/C- V- 3330-09-0381L  
FILE NO: V- 3330

SUBJECT: **VENDOR APPROVAL - ADDITIONAL PRODUCT CODE(S)**

GENTLEMEN,

REFERENCE TO YOUR APPLICATION NO. 0902001 ON THE ABOVE SUBJECT, YOUR COMPANY IS APPROVED AS A VENDOR EFFECTIVE 29/03/2009 FOR THE SUPPLY OF THE FOLLOWING PRODUCT(S) FOR K.N.P.C REFINERIES:

<u>PRODUCT</u>	<u>DESCRIPTION</u>
16 10	VALVES, BALL
16 20	VALVES, GATE, GLOBE & CHECK BELOW 2"
16 25	VALVES, GATE, GLOBE & CHECK 2" & ABOVE
17 04	FULL BORE BALL VALVES
17 05	FIRE-SAFE BALL VALVES
17 11	WAFER CHECK VALVES

THE COMPANY (VENDOR ) CODE ALLOCATED TO YOUR COMPANY IS **137009**.

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

VERY TRULY YOURS,

AHMAD AL - TABTABAI  
CHAIRMAN - VEC/CEC

AMM

NOTE: THIS SUPERSEDES LETTER DATED 20/07/1998



بنوعها للبريد الإلكتروني



2588

F - 2447 (A)

MAIN OFFICE  
P.O.B. 9758  
61008 Ahmadi, Kuwait  
Tel : (965) 398 9111  
Or 130  
Fax : (965) 398 3661  
http : // www.kockw.com  
C.R.No. 21835

شركة نفط الكويت (س.ك.و.)  
KUWAIT OIL COMPANY (K.S.C.)

إحدى شركات مؤسسة البترول الكويتية  
A subsidiary of Kuwait Petroleum Corporation

المكتب الرئيسي :  
ص. ب. 9758  
61008 الأحمدي - الكويت  
تلفون : 398 9111 (965)  
أو 130  
فاكس : 398 3661 (965)  
موقع شبكة الإنترنت  
http : // www.kockw.com  
المجل التجاري 21835

TO: M/s. JC Fabrica De Valvulas S.A.,  
Spain.  
Fax No. 0034 93 654 8687

DATE: 15<sup>th</sup> December 2008  
MSG.NO: PQAN/054/2008  
Total No.of Pages: 1

FROM: Team Leader Purchasing II,  
Commercial Affairs Group  
P.O. Box - 9758  
61008 Ahmadi, Kuwait  
Fax No.: (965) 23985034 / 23980677

SUBJECT: **NOTIFICATION OF VENDOR APPROVAL**

OUR REF.: **VEC-23735/VA/SM/054/2008**

Dear Sirs,

We are pleased to inform you that you have been approved for inclusion in KOC's Approved List of Manufacturer for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : **VALVES -- SMALL SIZES (2" & BELOW)**  
**( BALL, GATE, GLOBE & CHECK Only )**

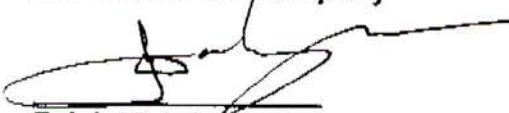
FACILITY ADDRESS : **M/s. JC FABRICA DE VALVULAS S.A.,**  
**CANTABRIA, 2-POL-IND LES,**  
**SALINES, 8830 SANT BOI,**  
**DE LLOBREGAT, BARCELONA,**  
**SPAIN.**

Validity : **From 15 December 2008 to 14 December 2013 (5 years)**

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

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.

Sincerely,  
For Kuwait Oil Company

  
Faleh Mohd. Al-Ajmi

Cc: M/s. Petroleum Equipment Technology Co. Fax - 23986374

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شركة نفط الكويت (ش.م.ك.)  
KUWAIT OIL COMPANY (K.S.C.)

إحدى شركات مؤسسة البترول الكويتية  
A subsidiary of Kuwait Petroleum Corporation

F - 2447 (A)

MAIN OFFICE

P.O.B. 9758  
61008 Ahmadi, Kuwait  
Tel : (965) 398 9111  
Or 130  
Fax : (965) 398 3661  
http : // www.kockw.com  
C.R.No. 21835

المكتب الرئيسي :  
ص.ب. ٩٧٥٨  
٦١٠٠٨ الاحمدي - الكويت  
للفون : ٣٩٨ ٩١١١ (٩٦٥)  
أو ١٣٠  
فاكس : ٣٩٨ ٣٦٦١ (٩٦٥)  
موقع شبكة الإنترنت  
http : // www.kockw.com  
السجل التجاري ٢١٨٣٥

TO: M/s. JC Fabrica De Valvulas S.A.,  
Spain.  
Fax No. 0034 93 654 8687

DATE : 30<sup>th</sup> July 2008  
MSG.NO: PQAN/035/2008  
Total No.of Pages: 1

FROM: Team Leader Purchasing II,  
Commercial Affairs Group  
P.O. Box - 9758  
61008 Ahmadi, Kuwait  
Fax No.: (965) 3985034 / 3980677

SUBJECT: NOTIFICATION OF VENDOR APPROVAL

OUR REF.: VEC-23735/VA/GGC/007/2008

Dear Sirs,

We are pleased to inform you that you have been approved for inclusion in KOC's Approved List of Manufacturer for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : **VALVES (2" & ABOVE)**  
(GATE, GLOBE & CHECK)

FACILITY ADDRESS : **M/s. JC FABRICA DE VALVULAS S.A.,**  
**CANTABRIA, 2-POL-IND LES,**  
**SALINES, 8830 SANT BOI,**  
**DE LLOBREGAT, BARCELONA,**  
**SPAIN.**

Validity : **From 30<sup>th</sup> July 2008 to 29<sup>th</sup> July 2013 (5 years)**

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

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.

Sincerely,  
For Kuwait Oil Company

  
Fateh Mohd. Al-Ajmi

Cc: M/s. Petroleum Equipment Technology Co. Fax - 3986374

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



2588

F-2447 (A)

**MAIN OFFICE**

P.O.B. 9758  
61008 Ahmadi, Kuwait  
Tel : (965) 398 9111  
Or 130  
Fax : (965) 398 3661  
http : // www.kockw.com  
C.R.No. 21835

شركة نفط الكويت (ش.م.ك.)  
**KUWAIT OIL COMPANY (K.S.C.)**

إحدى شركات مؤسسة البترول الكويتية  
A subsidiary of Kuwait Petroleum Corporation

المكتب الرئيسي :  
ص.ب. ٩٧٥٨  
٦١٠٠٨ أحمدي - الكويت  
تلفون : (٩٦٥) ٣٩٨ ٩١١١  
أو ١٣٠  
فاكس : (٩٦٥) ٣٩٨ ٣٦٦١  
موقع شبكة الإنترنت  
http : // www.kockw.com  
السجل التجاري ٢١٨٣٥

TO: M/s. JC Fabrica De Valvulas S.A.,  
Spain.  
Fax No. 0034 93 654 8687

DATE : 22<sup>nd</sup> March 2009  
MSG.NO: PQAN/010/2009  
Total No.of Pages: 1

FROM: Team Leader Purchasing II,  
Commercial Affairs Group  
P.O. Box - 9758  
61008 Ahmadi, Kuwait  
Fax No.: (965) 23985034 / 23980677

This Notification supersedes  
earlier Notification no.  
PQAN/034/2008 dated 30<sup>th</sup>  
July 2008.

SUBJECT: NOTIFICATION OF VENDOR APPROVAL

OUR REF.: VEC-23735/VA/BA/059/2009

Dear Sirs,

We are pleased to inform you that you have been approved for inclusion in KOC's Approved List of Manufacturer for the product category and manufacturing facility mentioned here below:

PRODUCT CATEGORY : BALL VALVES (2" & ABOVE)


FACILITY ADDRESS : M/s. JC FABRICA DE VALVULAS S.A.,  
CANTABRIA, 2-POL-IND LES,  
SALINES, 8830 SANT BOI,  
DE LLOBREGAT, BARCELONA,  
SPAIN.

Validity : From 22 March 2009 to 21 March 2014 (5 years)

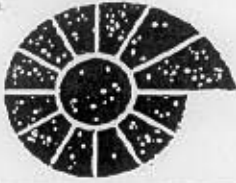
This notification of approval is issued subject to the following, failing which liable for cancellation at any time at the discretion of KOC.

- To update regularly with the latest product catalogue / information.
- To furnish Budgetary Quotations as & when requested.
- To furnish Audited financial details for every two years.
- To update with latest contact details / Change in Local Agent.
- To update with Name Change / Merging / Factory Shifting.

Sincerely,  
For Kuwait Oil Company

  
Faleh Mohd. Al-Ajmi

Cc: M/s. Petroleum Equipment Technology Co. Fax - 23986374



ش.م.م شركة تنميه تقط عمان  
Petroleum Development Oman L.L.C.

P.O. Box 81, Postal Code 113 Muscat, Sultanate of Oman  
Telex : 5212 Petro ON  
Tel. 678111

Facsimile : 677106, 675093  
Cable : Petro Muscat

ص.ب: ٨١، الرمز البريدي ١١٣ مسقط، سلطنة عمان  
تلكس: ٥٢١٢ بترو أون فاكس: ٦٧٥٠٩٣٠٦٧٧١٠٦  
هاتف رقم: ٦٧ بريقيا: بترو مسقط

To : PSE  
Fax Number : 9592S16  
From : Salma Kaldani  
Date : Sun Nov 01 14:22:43 1998  
Subject : Ball Valves - M/S JC Fabrica de Valvulas, Spain.

TO: PSE / FX

DDU1-9592S16;

CC: ABDULRAHIM A.R.A. BALUCHI / ISP111, OPENMAIL  
All correspondence to:

FROM: Salma Al-Kaldani ISP/311 PDO Muscat (+968 67) Tel 7214 Fax 5675,  
Petroleum Development Oman LLC, PO Box 81, Postal Code 113, Muscat,  
Sultanate of Oman.

Attn : Mr. Xavi Thekkath,

With reference to your letter PS/XI-UI/2592/98 dated 04/10/98, we are pleased to inform you that your products are now approved and included in our Approved Vendors List under Sections 6.7.1(1/2"-12" 150-600#), 6.7.2(2-12" 150-600#) & 6.7.4(2-12" 150-600#). However, you are required to submit OCCI certificate in order to include Pipeline Supply Establishment as a local agent. The approval is effective from the date of this letter.

Regards,

Salma Al-Kaldani  
ISP/311





L 035666

**LESEN MEMBEKAL PERALATAN/MEMBERI PERKHIDMATAN KEPADA  
SYARIKAT-SYARIKAT CARIGALI DAN PENGELUAR MINYAK/GAS DI MALAYSIA**

Pada menjalankan kuasa-kuasa yang diberi oleh Seksyen 7, Akta Kemajuan Petroliaam, 1974 dan mengikut Peraturanan 5, Peraturan-Peraturan Petroliaam, 1974, yang diwakilkan kepada saya oleh YAB Perdana Menteri Malaysia, saya dengan ini mengeluarkan lesen dibawah Peraturanan 3, Peraturan-Peraturan Petroliaam ini bagi tujuan di atas kepada :-

TUAH NUSA SDN BHD (437518-W)  
PLO 234, JALAN TEBAGA SATU, PASIR GUDANG INDUSTRIAL ESTATE,  
81700 PASIR GUDANG  
JOHOR

Tarikh : 02 Disember 2010

Butir-butir Lesen adalah seperti berikut :-

Nombor Lesen : L-437518-W  
Tempoh Sah Lesen : 01 Disember 2010 - 30 November 2012  
Yuran Lesen : RM 1000.00  
Bidang pembekalan/perkhidmatan : Seperti di Lampiran 'BIDANG-BIDANG LESEN'.

Syarat-syarat Khas yang dikenakan ke atas Lesen ini :-

Tertakluk kepada syarat khas seperti di lampiran berkaitan.

Syarat-syarat Am Lesen ini adalah seperti yang tercatat di muka sebelah.

Pengurus Besar Kanan  
Pengurusan Rangkaian Bekalan Kumpulan  
b/p Presiden  
Petroliaam Nasional Berhad

Peringatan: Pemegang Lesen Hendaklah Memohon Pembaharuan Lesen Dua (2) Bulan Sebelum Tarikh Tamat Lesen.



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO LESEN : L-437518-W  
 TEMPOH SAH LESEN : 01 Disember 2010 - 30 November 2012

- SYARAT KHAS LESEN
- a. Syarikat dikehendaki mengemukakan Laporan Kewangan Tahunan yang telah diaudit bagi tahun berakhir 28 Februari 2012 sebelum 01 September 2012 dan kedudukan "shareholders' funds" hendaklah positif. Kegagalan berbuat demikian akan mengakibatkan syarikat tidak lagi disenaraikan dalam "List of Licensed/Registered Companies (LLRC)" PETRONAS.
- b. Syarikat dikehendaki mengemukakan Laporan Tahunan yang telah diaudit bagi tahun berakhir 28 Februari 2011 sebelum 01 September 2011 dan kedudukan "shareholders' funds" hendaklah positif. Kegagalan berbuat demikian akan mengakibatkan syarikat tidak lagi disenaraikan dalam "List of Licensed/Registered Companies (LLRC)" PETRONAS.
- c. Syarikat dikehendaki mengemukakan salinan perjanjian agensi yang eksklusif yang telah diperbaharui daripada prinsipal JC Fabrica de Valvulas, s.a. yang disahkan oleh Pesuruhjaya Sumpah atau Peguambela & Peguamcara sebelum 31 Mei 2012 mengikut format yang ditetapkan oleh PETRONAS sepertimana yang dinyatakan di dalam Panduan Am Lesen dan Pendaftaran PETRONAS. Kegagalan berbuat demikian akan mengakibatkan syarikat tidak lagi disenaraikan dalam "List of Licensed/Registered Companies (LLRC)" PETRONAS bagi bidang yang berkaitan.
- d. Syarikat dikehendaki mengemukakan spesimen tandatangan yang asal daripada semua penandatangan cek syarikat bagi AFFIN BANK (M) BHD bermombor akaun 10-073-000549-5 yang bercop dan mempunyai pengesahan asal daripada pihak bank serta mempunyai modus operandi serta salinan penyata bank satu (1) bulan terkini AFFIN BANK (M) BHD sebelum 15 Februari 2011.


### BIDANG-BIDANG LESEN

#### BIDANG-BIDANG LESEN YANG DILULUSKAN (Approved licence categories)

KOD PERKHIDMATAN/BEKALAN  
(Services/Supplies Code)

BENTUK OPERASI  
(Mode of Operation)

NAMA PRODUK/RIG/KAPAL  
(Bila mana berkaitan)

L  PY101010000

JC VALVE

Pengurus Kanan  
 Jabatan Pembangunan Keupayaan Tempatan  
 Bahagian Pengurusan Rangkaian Bekalan Kumpulan  
 Petroliam Nasional Berhad



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO LESEN : L-437518-W  
 TEMPOH SAH LESEN : 01 Disember 2010 - 30 November 2012  
 SYARAT KHAS LESEN : Sila rujuk di Lampiran Lesen 1

### BIDANG-BIDANG LESEN

BIDANG-BIDANG LESEN YANG DILULUSKAN (Approved licence categories)		
KOD PERKHIDMATAN/BEKALAN (Services/Supplies Code)	BENTUK OPERASI (Mode of Operation)	NAMA PRODUK/RIG/KAPAL (Bila mana berkaitan)
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE
L		JC VALVE

Pengurus Kanan  
 Jabatan Pembangunan Keupayaan Tempatan  
 Bahagian Pengurusan Rangkaian Bekalan Kumpulan  
 Petroliam Nasional Berhad



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO LESEN : L-437518-W  
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 SYARAT KHAS LESEN : Sila rujuk di Lampiran Lesen 1

**BIDANG-BIDANG LESEN**

BIDANG-BIDANG LESEN YANG DILULUSKAN (Approved licence categories)	BENTUK OPERASI (Mode of Operation)	NAMA PRODUK/RIG/KAPAL (Bila mana berkaitan)
KOD PERKHIDMATAN/BEKALAN (Services/Supplies Code)	BENTUK OPERASI (Mode of Operation)	NAMA PRODUK/RIG/KAPAL (Bila mana berkaitan)
1	PY104020000	JC VALVE

.....

Pengurus Kanan  
 Jabatan Pembangunan Keupayaan Tempatan  
 Bahagian Pengurusan Rangkaian Bekalan Kumpulan  
 Petroliam Nasional Berhad



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO LESEN : L-437518-W  
 TEMPOH SAH LESEN : 01 Disember 2010 - 30 November 2012  
 SYARAT KHAS LESEN : Sila rujuk di Lampiran Lesen 1

**LAMPIRAN BIDANG-BIDANG LESEN**

**BIDANG-BIDANG LESEN YANG DILULUSKAN**  
 (Approved licence categories)

**PERKHIDMATAN/BEKALAN**  
 (Services/Supplies)

KOD (Code)									
L	PV101010000	PV1 VALVES	01	Ball Valves	01	Less than 50 mm (Non-Firesafe)	00	-	00
L	PV101020000	PV1 VALVES	01	Ball Valves	02	Less than 50 mm (Firesafe)	00	-	00
L	PV101030000	PV1 VALVES	01	Ball Valves	03	Greater than 50 mm (Non-Firesafe)	00	-	00
L	PV101040000	PV1 VALVES	01	Ball Valves	04	Greater than 50 mm (Firesafe)	00	-	00
L	PV101050000	PV1 VALVES	01	Ball Valves	05	Greater than 50 mm (Subsea)	00	-	00
L	PV102010000	PV1 VALVES	02	Gate Valves	01	Less than 50 mm	00	-	00
L	PV102020000	PV1 VALVES	02	Gate Valves	02	Greater than 50 mm	00	-	00
L	PV103010000	PV1 VALVES	03	Check Valves	01	Less than 50 mm	00	-	00

*[Signature]*

Pengurus Kanan  
 Jabatan Pembinaan Keupayaan Tempatan  
 Bahagian Pengurusan Rangkaian Bekalan Kumpulan  
 Petroliam Nasional Berhad



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO LESEN : L-437518-W  
 TEMPOH SAH LESEN : 01 Disember 2010 - 30 November 2012  
 SYARAT KHAS LESEN : Sila rujuk di Lampiran Lesen 1

**LAMPIRAN BIDANG-BIDANG LESEN**

**BIDANG-BIDANG LESEN YANG DILULUSKAN**  
 (Approved licence categories)

KOD (Code)	PERKHIDMATAN/BEKALAN (Services/Supplies)	01	02	03	04
L PY103020000	PVI VALVES	03 Check Valves	02 Greater than 50 mm	00 -	00 -
L PY103030000	PVI VALVES	03 Check Valves	03 Duo Check Valves	00 -	00 -
L PY103040000	PVI VALVES	03 Check Valves	04 Piston/Non-Slam Check Valves	00 -	00 -
L PY104010000	PVI VALVES	04 Globe Valves	01 Less than 50 mm	00 -	00 -
L PY104020000	PVI VALVES	04 Globe Valves	02 Greater than 50 mm	00 -	00 -

\*\* TAMAT \*\*

*[Signature]*

Pengurus Kanan  
 Jabatan Pembangunan Kupayaan Tempatan  
 Bahagian Pengurusan Rangkaian Bekalan Kumpulan  
 Petroliam Nasional Berhad

PETRONAS



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO. LESEN : L-437518-W  
 TEMPOH SAH LESEN : 01 Disember 2010 - 30 November 2012

**BIDANG-BIDANG YANG TIDAK DILULUSKAN  
 (Disapproved categories)**

KOD PERKHIDMATAN/PEMBEKALAN (Services/Supplies Code)	SEBAB-SEBAB TIDAK DILULUSKAN (Reasons for Disapproval)
L PS201000000	1. Bidang yang dipohon telah dibekukan oleh pihak PETRONAS.
L PS202010000	1. Bidang yang dipohon telah dibekukan oleh pihak PETRONAS.
L PS202030000	1. Bidang yang dipohon telah dibekukan oleh pihak PETRONAS.

*MA*

Pengurus Kanan  
 Pelesenan dan Pendaftaran  
 Jabatan Pembangunan Keupayaan Tempatan  
 Bahagian Pengurusan Rangkaian Bekalan Kumpulan  
 Petroliam Nasional Berhad



NAMA SYARIKAT : TUAH NUSA SDN BHD (437518-W)  
 NO. LESEN : L-437518-W  
 TEMPOH SAIH LESEN : 01 Disember 2010 - 30 November 2012

**LAMPIRAN BIDANG-BIDANG YANG TIDAK DILULUSKAN  
 (Disapproved categories)**

BIDANG-BIDANG LESEN YANG TIDAK DILULUSKAN (Disapproved licence categories)		PERKHIDMATAN/BEKALAN (Services/Supplies)	
KOD (Code)			
L PS201000000	PS2 STRUCTURAL	01 Structural Pipes	00 - 00 - 00 -
L PS202010000	PS2 STRUCTURAL	02 Structural Steel	00 - 00 - 00 -
L PS202030000	PS2 STRUCTURAL	02 Structural Steel	00 - 00 - 00 -
		01 Beams & Columns	
		03 Plates	

.....

Pengurus Kanan  
 Pelcsenan dan Pendaftaran  
 Jabatan Pembangunan Keupayaan Tempatan  
 Bahagian Pengurusan Rangkaan Bekalan Kumpulan  
 Petroliam Nasional Berhad



**PETROLIAM NASIONAL BERHAD (20076-K)**

Rujukan Kami : FMT/064-LCG-L-437518-W (LIYANAM)

02 Disember 2010

**TUAH NUSA SDN BHD (437518-W)**

PLO 234, JALAN TEMBAGA SATU, PASIR GUDANG INDUSTRIAL ESTATE,  
81700 PASIR GUDANG  
JOHOR

Tuan

**LESEN UNTUK MEMBERI PERKHIDMATAN/MEMBEKAL PERALATAN KEPADA  
SYARIKAT-SYARIKAT CARIGALI DAN PENGELUAR MINYAK  
- PEMBAYARAN LESEN DAN STATUS SYARIKAT**

Kami merujuk kepada permohonan tuan seperti di atas.

Sukacita dimaklumkan bahawa permohonan tersebut telah diluluskan. Mengikut peraturan-peraturan pelesenan, tuan adalah dikenakan bayaran sebanyak **RM1000.00** sahaja

Pembayaran mestilah dibuat dalam bentuk **Draf Bank** sahaja atas nama **PETRONAS** dengan menyatakan nombor rujukan lesen tuan dan disampaikan di alamat berikut :

Pelesenan dan Pendaftaran  
Jabatan Pembangunan Keupayaan Tempatan  
Pengurusan Rangkaian Bekalan Kumpulan  
PETRONAS  
Aras 65, Menara 1, Menara Berkembar PETRONAS  
Kuala Lumpur City Centre  
50088 KUALA LUMPUR  
(u/p : Pn. Maimunah Bt Hj Hassan)

Lesen berserta resit rasmi PETRONAS akan dihantar **melalui pos** setelah pembayaran tersebut diterima.

Sila ambil perhatian bahawa **selagi pembayaran lesen ini tidak dijelaskan syarikat tuan tidak akan disenaraikan ke dalam "List of Licensed/Registered Companies (LLRC)" PETRONAS**. Lesen ini akan dibatalkan sekiranya Syarikat tidak menjelaskan pembayaran dalam tempoh satu (1) bulan dari tarikh surat ini.

**Tuan adalah dikehendaki untuk sentiasa mematuhi syarat-syarat pelesenan yang tertera di muka belakang sijil lesen dan di lampiran lesen syarikat tuan.**

Harap maklum bahawa berdasarkan penilaian dan dokumen-dokumen yang dikemukakan, syarikat tuan telah diberi status sebagai syarikat "Bumiputera Local".

Sekian, terima kasih.

Pengurus Besar Kanan  
Pengurusan Rangkaian Bekalan Kumpulan  
Petroliam Nasional Berhad

**Catitan : Notis ini dicetak oleh komputer dan tandatangan pihak  
PETRONAS tidak diperlukan.**

Official Sponsor





# PDVSA Services, B.V.

JC Fabrica de Valvulas SA  
Calle Cantabria 2, P.I. Les Salines  
08830 Saint Boi de Llobregat  
Barcelona  
Spain

Attn: Mr. Anton Canellas

The Hague, November 02, 2001

**Ref: "Vendor approval status"**

Dear Mr. Canellas,

We hereby confirm that **JC Fabrica de Valvulas SA** has been registered with  
Petroleos de Venezuela, S.A. (PDVSA) under the vendor code **350013751**

We trust that this information is satisfactory.

Sincerely Yours  
PDVSA Services, B.V.

A.J.M. Verhoeff  
European Market Development Advisor

**PDVSA Services, B.V.**

Eisenhowerlaan 150, 2517 KP Den Haag. PO Box 16413, 2500 BK Den Haag, The Netherlands.  
Telephone: +31 - 70 - 3488588 Fax: +31 - 70 - 3488540 [www.pdv.com](http://www.pdv.com)

**MATERIALS DEPARTMENT**

(Qatar Navigation Plaza)

Tel (974) 4240200 / Fax (974) 4240351

Website: [www.qp.com.qa](http://www.qp.com.qa)**Fax****To:** JC FABRICA DE VALVULAS, S.A.

Attn.: Sales Director

**Fax:** +34 93 654 8687**Phone:** +34 93 654 8686**Date:** 23 September 2008**cc:** JC Middle East FZC – Fax +971 6 526 3273

(Attn.: Elvis Fuller, Divisional Manager, Ravi Naik, Sales Manager – Qatar)

Petrofac – Fax 447 8811 (Attn.: Rony Paul, Exec. Manager)

**From:** SUPPLIER RELATIONS

supplierrelation@qp.com.qa

**Fax:** (+974) 4240 351**Phone:** (+974) 4240 248/302/303**Ref. #:** MTR3/157/8**Subject:** Supplier Registration Renewal

We are pleased to inform you that your application for renewal as a **registered supplier** with Qatar Petroleum has been accepted.

Your Vendor Registration number is **3026** with a registration validity up to **September 23, 2010**.

Please note well that successful registration is no guarantee, implied or otherwise, of any future participation in tenders, issuance of enquiry or award of work: (i.e. the inclusion on a particular tender list or the purchase of your products). We are merely giving your company an equal opportunity to compete with other registered vendors having the same range of products and services.

Your firm has been included in the following product groups and is contingent upon your continuous adherence to Qatar Petroleum Standards and Specifications:

Product Group	Commodity Description
7700	BALL VALVES
7710	CHECK VALVES
7720	GATE VALVES
7730	GLOBE VALVES

The above product groups are in accordance with QP Materials Department and Shell's Materials, Equipment, Standards and Codes (MESCC) coding system. Unless informed otherwise, we will assume you are satisfied with your products' coding and categorization.

If at anytime in the future your circumstances change such that you are no longer able to comply with the qualification criteria for these product groups, you should advise QP immediately. QP reserves the right to remove your name from the registered supplier list at its discretion and without notification.

Should there be any changes in your company's profile (e.g. name, address, telephone, fax, renewal or termination of agency agreement) QP must be notified immediately.

**Renewal of registration should be applied two (2) weeks before the validity expiration date.**

Thank you for your continued interest in doing business with Qatar Petroleum.

Regards,

  
**Pamela Reay Laufer**  
 Supervisor, Supplier Relations

If you do not receive the correct number of pages or any are not legible, please contact the sender as soon as possible.

**Confidentiality Caution:** This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If you have received it in error, please notify the sender immediately by telephone.





Valve manufacturer: JC Fabrica de Valvulas s.a  
Sant Boi de Llobregat  
Barcelona  
Spain

Shell Global Solutions International BV  
P.O. Box 541  
2501 CM The Hague  
The Netherlands  
Tel +31 (0)70 377 1979  
Other Tel +31 (0)646 382 359  
Fax +31 (0)70 377 5400  
Email [tanja.cadez@shell.com](mailto:tanja.cadez@shell.com)  
Internet [www.shellglobalsolutions.com](http://www.shellglobalsolutions.com)

03 April 2006

Contract nos. 101129, 105528, 106479

Dear Sirs,

With reference to the above referred contracts, we, Shell Global Solutions International B.V. (Shell-GSI) hereby confirm that JC Fabrica de Valvulas s.a. will be included in the Shell-GSI's Technically Acceptable Manufacturers and Products (TAMAP) database for the design, manufacturing and supply of the MESC valve ranges as specified below.

MESC Range.	JC FIG No.	Size Range
770003.105.1 to 770003.112.1	730	DN 25 to DN 100
770003.164.1 to 770003.166.1	730	DN 150 to DN 250
770008.105.1 to 770008.112.1	730	DN 25 to DN 100
770008.164.1 to 770008.166.1	730	DN 150 to DN 250
770303.105.1 to 770008.112.1	730	DN 25 to DN 100
770303.164.1 to 770303.166.1	730	DN 150 to DN 250
770003.003.1 to 770003.064.1	715	DN 15 to DN 150
770003.065.1 to 770003.066.1	715	DN 200 to DN 250

Established at The Hague,  
Carel van Bylandtlaan 30, 2596 HR The Hague  
Commercial Register, The Hague 27155370  
VAT number: NL 004 7909 96:859

Shell Global Solutions is a trading style used  
by a network of technology companies  
of the Shell Group

MESC Range.	JC FIG No.	Size Range
770008.003.1 to 770008.064.1	715	DN 15 to DN 150
770008.065.1 to 770008.066.1	715	DN 200 to DN 250
770303.003.1 to 770303.064.1	715	DN 15 to DN 150
770303.065.1 to 770303.066.1	715	DN 200 to DN 250
770003.653.1 to 770003.657.1	530	DN 15 to DN 40
770008.653.1 to 770008.662.1	530	DN 15 to DN 100
770008.664.1 to 770008.665.1	530	DN 150 to DN 200
770303.653.1 to 770303.662.1	530	DN 15 to DN 100
770303.664.1 to 770303.666.1	530	DN 150 to DN 250
770003.553.1 to 770003.564.1	515	DN 15 to DN 150
770003.565.1 to 770003.566.1	515	DN 200 to DN 250
770008.553.1 to 770008.564.1	515	DN 15 to DN 150
770008.565.1 -----	515	DN 200
770303.553.1 to 770303.564.1	515	DN 15 to DN 150
770303.565.1 to 770303.566.1	515	DN 200 to DN 250

Yours sincerely  
Shell Global Solutions International BV



Tanja Cadez



Ernest Dyer



E. Dyer  
Mechanical Engineer  
SGSI GSEM/1

شریکت میپ شیل برونی سندیرین برحد

Brunei Shell Petroleum Company Sendirian Berhad

(Incorporated in Negara Brunei Darussalam)



Seria KB3534, Negara Brunei Darussalam  
PAN (03) - 37 - 3999

Kawat (Cable): "BRUNSHELL" Seria  
Telex : BSPVSL BU 3313  
Fax : PAN (03) - 37 - 2040

16<sup>th</sup> April 2007

SHINBA INTEGRATED ENGINEERING SERVICES  
P.O. BOX 111,  
KUALA BELAIT KB1189,  
BRUNEI DARUSSALAM.

Your Ref : 700115STL

Attn. : Mr. Ak. Sharifful Bahri Bin Pg. Seri Indera Pg. Hj. Ismail

Dear Sir,

**RE: REGISTRATION FOR ADDITIONAL PRODUCT GROUP [ JC FLOW CONTROLS ]**

With reference to your letter dated 30<sup>th</sup> March 2007. We are pleased to advise your company has been accepted for registration in the following product group(s):-

77AAAC	-	VLV,BALLS, BS,CS/AL,SOFT SEAT,FL/BW
77AGAA	-	VLV,B.API 6D,CS/ALL. ST.
77AJAA	-	VLV,BALL,ASME.CS/ALLOY <DN50
77XXXX	-	SPARE PARTS - 77 GRP

We would like to remind you that your registration on the above product group and the product which you have been registered in, will be deleted if you are not replying our request for reconfirmation of your agencies within three (3) months and also fail to quote against BSP/BLNG enquiries on three or more occasions.

We would like to inform that in future applications on additional product group registration, it is necessary that you visit our website first at : [http://www.bsp.com.bn/main/commercial/commercial\\_documents/Product\\_List/Mat\\_group.pdf](http://www.bsp.com.bn/main/commercial/commercial_documents/Product_List/Mat_group.pdf) to view and refer against BSP/BLNG revised product group codes (Shell Global). The revised codes and description must be used against the products to be registered before submitting your application to us.

Yours faithfully,

for BRUNEI SHELL PETROLEUM COMPANY SENDIRIAN BERHAD

on behalf of SCM Registration Committee  
( Pg. Hj. Maria binti Pg. Hj. Tajuddin – SCM/1 )

We Refine Right**FACSIMILE MESSAGE**

**To** : M/s. Universal Technical - L.L.C.  
 Attn.: Mr. Emad Hassan - Executive Manager

**Fax No.:** 6269462  
 Abu Dhabi

**From** : Procurement Support Department Manager

**Fax No.:** 6027442

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

**Ref. No. :** TKR/5/S/ 1162 /FES/2008

**Date :** 13 AUG 2008

**Subject :** REGISTRATION & PRE-QUALIFICATION STATUS

Reference to the Pre-qualification Document of your Principal M/s. **JC Fabrica De Valvulas, S.A. - Spain**, submitted by you as a *Manufacturer*. Please be informed that based on the evaluation, the above principal has been included in TAKREER records as a possible source for supply of the following products:

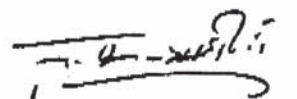
- Valves: Ball
- Valves: Gate/ Globe/ Check Upto 2.0"
- Valves: Gate/ Globe/ Check Above 2.0"
- Valves: Butterfly (Flanged & Wafer Type)
- Valves: Special/Non Standard Ball Valves

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

Kindly note that this fax shows your company's current Registration & Prequalification status with TAKREER and it supersedes any and all previous faxes which may have been issued to you on this subject.

You are advised to quote your Principal's Registration No. **900341** in all future correspondence

Regards,

  
 Hashim Al Hashemi

**RECEIVED**  
 13 AUG 2008

BY:-----

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

**No. of pages to follow:**

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

FA.900341

~ Global Supply Line - major stockists, supplying worldwide ~

World's largest stockist of JC Floating & Trunnion Ball Valves

See our full stocklist at our website: -

[www.globalsupplyline.com.au](http://www.globalsupplyline.com.au)

(sole agents Australia, New Zealand, PNG)

TOTAL P.01