



**DELCORTE**  
**FITTINGS**

MADE IN FRANCE 

**COMPANY PROFILE**  
SPECIALIST OF FORGED FITTINGS,  
BRANCH OUTLETS & API COUPLINGS



## **SUMMARY**

### **I. INTRODUCTION**

- GENERAL INFORMATION
- KEY HISTORICAL EVENTS
- ORGANISATION CHART
- MARKETS SERVED

### **II. QUALITY CONTROL**

- ENGINEERING SOLUTIONS
- TESTINGS & INSPECTION FACILITIES
- CERTIFICATION
- APPROVALS
- MAJOR EXPERIENCE LIST

### **III. PRODUCTION PROCESS**

- MANUFACTURING / PACKING / DELIVERY
- HIGH PRESSURE DIVISION
- JD BRANCH OUTLETS
- SPECIAL PIECES / PARTS / FITTINGS
- API COUPLINGS DIVISION
- LOW PRESSURE DIVISION

## **INTRODUCTION**

We are pleased to introduce you DELCORTE, specializing in the design and production of high pressure forged fittings and branch outlets in all grades.

The company is composed of 3 divisions for the carbon steel forged fittings, stainless steel forged fittings and the branch outlets.

These 3 divisions produce under the same brand, JD, internationally recognized.

Our products have been used for decades in the oil and gas industry, chemical and petrochemical industries, power plants and many other industries.

Our sales team offers its expertise to a wide variety of customers, from the stockists to the end-users and is trained to help answer the needs of their clients.

The design department closely works with the sales department to supply drawings and calculations notes for branch outlets that will perfectly suit the conditions of use of the client.

DELCORTE offers a complete solution by delivering a product which is in conformity with each customer's needs, performing in-house testing such as PMI, ferrite check, dye penetrant test, magnetic particle inspection, hardness test, charpy impact test.

Delcorte also uses independent laboratories to perform destructive testing such as corrosion test, metallographic examination, microstructure examination and chemical analysis.

Since its creation in the 1920's the company has acquired a rich experience around the world, making it one of the most reliable partners in terms of quality of the products supplied, quality in the service and customer care.

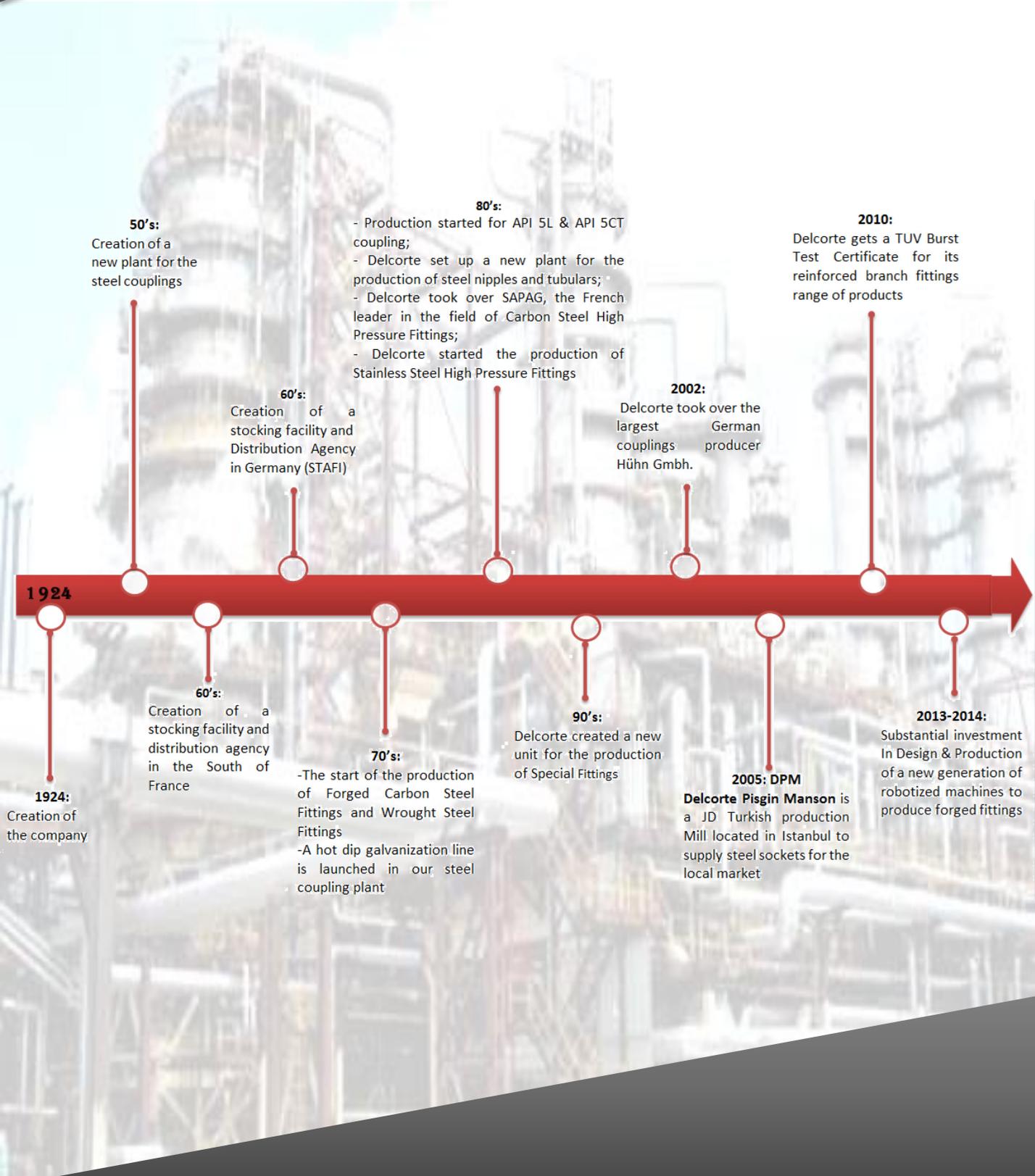
The family company is now headed by the 5th generation who benefits from the experience of the past but looks towards the future, investing in new machinery dedicated to increasing the productivity and to meeting customers' requirements.

**Guillaume Delcorte**  
**General Manager**

## GENERAL INFORMATION

<b>COMPANY</b>	<b>DELCORTE SAS</b>
<b>OWNERSHIP</b>	Delcorte's Family
<b>ESTABLISHED</b>	1924
<b>LOCATION</b>	<ul style="list-style-type: none"> <li>• Plant &amp; Head Office : 17 rue du Corbeau 59600 MAUBEUGE – FRANCE</li> <li>• Distribution France / South Europe : Zone Industrielle Av. Bernard Palissy – 84700 SORGUES – FRANCE</li> <li>• Distribution Germany / East &amp; North Europe : STAFI In der Illekatte 7-9 – 58339 BRECKERFELD – GERMANY</li> </ul>
<b>EMPLOYEES</b>	280
<b>TURNOVER 2013</b>	€ 51 000 000
<b>MAIN PRODUCTS</b>	Forged carbon, stainless and alloy steel fittings, reinforced branch outlets, flanged branch fittings, wrought steel fittings, API line pipe, casing and tubing couplings, barrel nipples & tubulars, special pieces
<b>WEB SITE</b>	<a href="http://www.delcorte.com">www.delcorte.com</a>
<b>E-MAIL</b>	<a href="mailto:info@delcorte.com">info@delcorte.com</a>
<b>COUNTRY OF REGISTRATION</b>	FRANCE – B445 520 828

## KEY HISTORICAL EVENTS



**1924**

**1924:**  
Creation of the company

**60's:**

Creation of a stocking facility and distribution agency in the South of France

**50's:**

Creation of a new plant for the steel couplings

**60's:**

Creation of a stocking facility and Distribution Agency in Germany (STAFI)

**70's:**

-The start of the production of Forged Carbon Steel Fittings and Wrought Steel Fittings  
-A hot dip galvanization line is launched in our steel coupling plant

**80's:**

- Production started for API 5L & API 5CT coupling;  
- Delcorte set up a new plant for the production of steel nipples and tubulars;  
- Delcorte took over SAPAG, the French leader in the field of Carbon Steel High Pressure Fittings;  
- Delcorte started the production of Stainless Steel High Pressure Fittings

**90's:**

Delcorte created a new unit for the production of Special Fittings

**2002:**

Delcorte took over the largest German couplings producer Hühn GmbH.

**2005: DPM**

**Delcorte Pisgin Manson** is a JD Turkish production Mill located in Istanbul to supply steel sockets for the local market

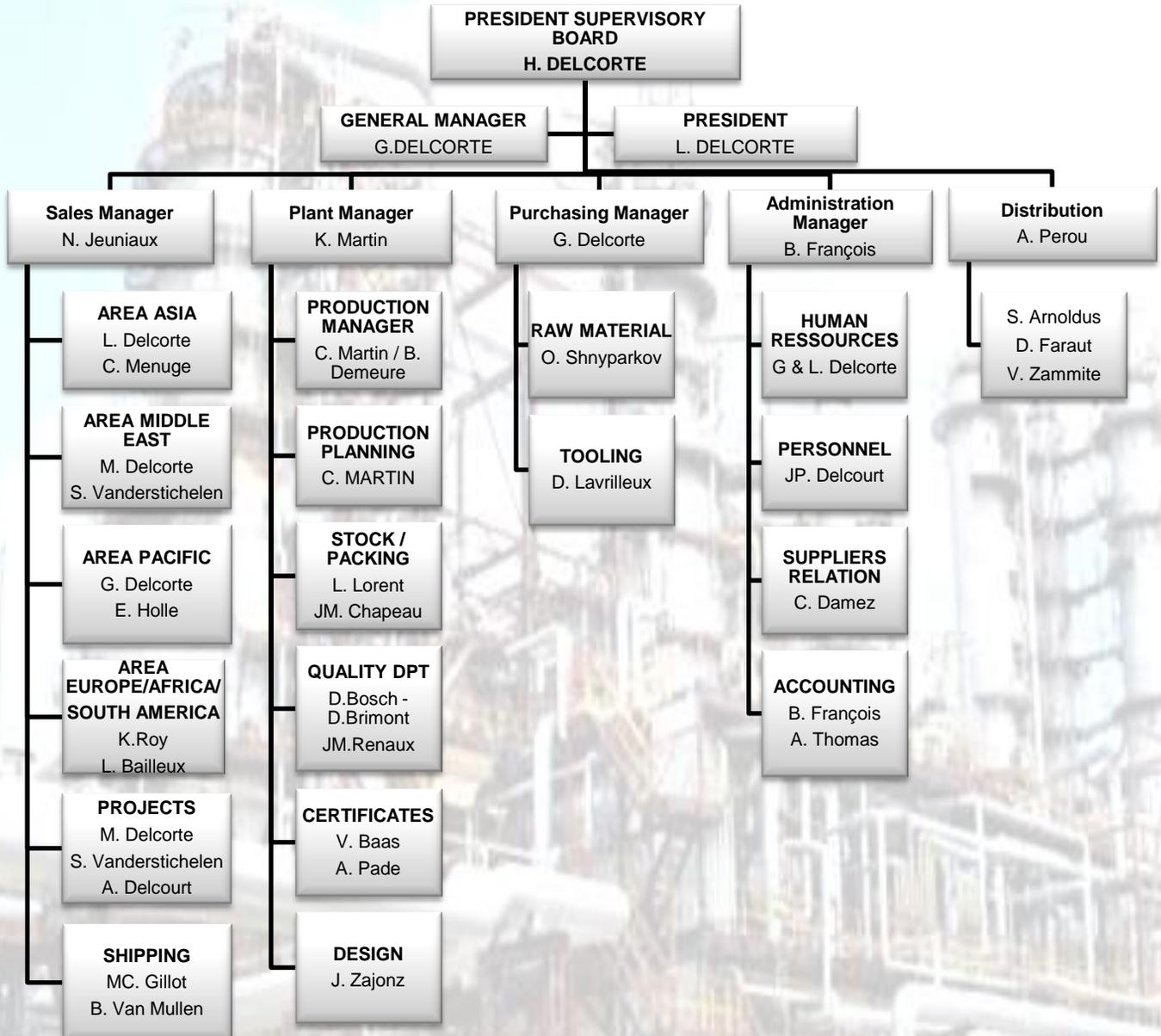
**2010:**

Delcorte gets a TUV Burst Test Certificate for its reinforced branch fittings range of products

**2013-2014:**

Substantial investment In Design & Production of a new generation of robotized machines to produce forged fittings

# ORGANISATION CHART



**MARKETS SERVED**

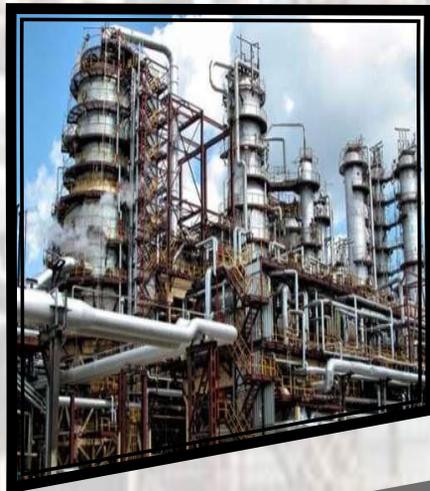
**OIL & NATURAL GAS  
DRILLING, PRODUCTION,  
TRANSPORTATION**



**CHEMICAL /  
PETROCHEMICAL  
PLANTS**



**REFINERIES /  
POWER PLANTS**



## MARKETS SERVED

THE OVERALL PRODUCTION IS DEDICATED TO EXPORT MARKET IN MORE THAN 60 COUNTRIES

90 YEARS OF KNOW-HOW AND EXPERIENCE ON THE MARKET OF PIPELINE COMPONENTS

PRODUCTS ARE USED IN THE ASSEMBLY OF PIPING SYSTEMS FOR :

- OIL AND GAS
- NUCLEAR
- CHEMICAL AND PETRO CHEMICAL
- STEAM & WATER
- POWER PLANTS

WORLDWIDE PRESENCE IN MANY OIL & GAS PROJECTS



## QUALITY CONTROL

DELCORTE operates in compliance with its quality Management System certified according to ISO 9001:2008, PED authority.

Quality is our prime concern and we follow stringent quality control norms in order to ensure international standards of quality. We also grant test certificates including the results of the mechanical tests, chemical analysis and heat treatment carried out in conformity with EN 10204.3.1. According to the customers request, material can undergo EN 10204.3.2. certificate.

### EN 10204.3.2. certificate



**Abnahmeprüfzeugnis**  
EN 10 204 - 3.2  
Inspection Certificate - Certificat de Réception

**Besteller:** W.SCHULZ  
Kühlschütte 111 / PO box 130654  
D 47758 Krefeld

**Hersteller:** DELCORTE  
17 avenue du corbeau CS 10597  
F-59606 MAUBEUGE CEDEX

**Prüfgegenstand:** Raccords / Fittings

**Prüfgrundlagen/Anforderungen:** ASME / ASTM Standard

**Werkstoff:** F51  
entsprechend: ASTM A182 F51 FR

**Lieferzustand:** Solution annealed

**Kenntzeichnung (Werkstoff):** A182 F51 FR  
Dimension / Serie  
Heat Code

**Umfang der Lieferung**

Pos. Nr.	Stückzahl	Bezeichnung
1	7	NIPO-FLANGE SH10
2	2	NIPO-FLANGE SH10
3	1	NIPO-FLANGE SH10
4	4	NIPO-FLANGE SH10
5	2	NIPO-FLANGE SH10
6	20	NIPO-FLANGE SH10
7	2	NIPO-FLANGE SH10
8	20	NIPO-FLANGE SH10
9	20	NIPO-FLANGE SH10
10	20	NIPO-FLANGE SH10
11	20	NIPO-FLANGE SH10
12	20	NIPO-FLANGE SH10
60	2	NIPO-FLANGE SH10

**Die gestellte Anforderungen sind:**  
Die Anforderungen des Auftrages zu erfüllen  
Die Anforderungen des Auftrages zu erfüllen

**Ort, Datum:** Templermars, 20.11.2012

**Anlagen:**  
1) Ergebnis der  
2) Certificate EN 10204.3.2

**REVISIONS**  
1) 5.07.2012  
2) 11.11.2012

**DELCORTE FITTINGS**  
SUPPLY OF DUPLEX STAINLESS STEEL FITTINGS

**SUMMARY**

- 1 -- 3.2 Certificate
- 2 -- Inspection and Test Plan
- 3 -- 3.1 Certificates
- 4 -- Non Destructive Examination
  - 4-1 -- PMI Test Reports
  - 4-2 -- Hardness test reports
  - 4-3 -- Liquid Penetrant Examination
- 5 -- Destructive Examination
  - 5-1 -- Tensile test & Impact test reports
  - 5-2 -- Product analysis reports
  - 5-3 -- Micrography reports
  - 5-4 -- Corrosion test reports
  - 5-5 -- Ferrite content reports
- 6 -- Packing List

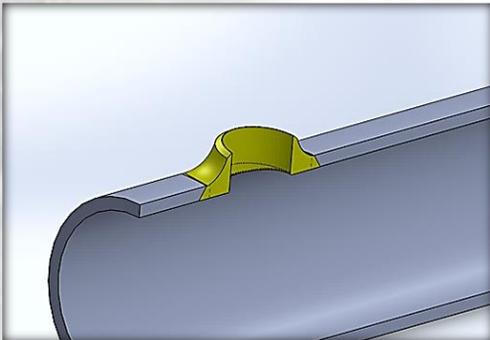
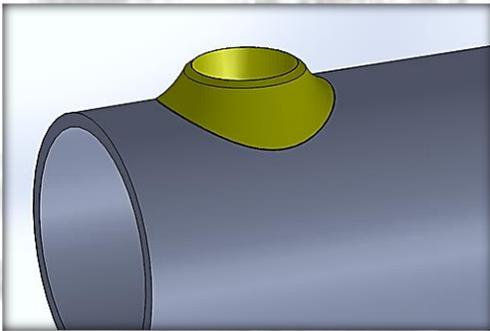
**Doc. Number:** MDB20534 Rev1  
**Delcorte reference:** DEP/20534  
**Schulz reference:** KB61179

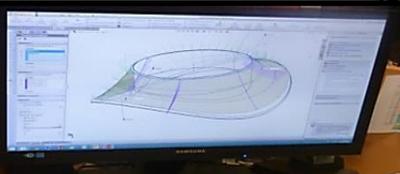
**TÜVRheinland**

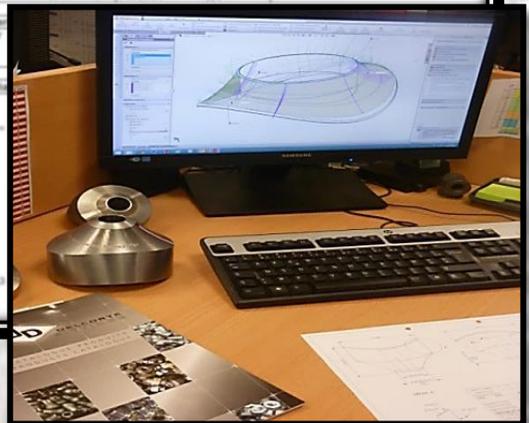
## ENGINEERING SOLUTIONS

Our design department provides an extensive range of engineering solutions to meet the clients' specific requirements. Our Engineers closely work with the sales department to supply drawings (2D/3D-CAD), calculation notes for outlets that will perfectly suit the conditions of use of the clients.

This means that they take into account the pressure, the temperature of use, the corrosion allowance as per ASME applicable codes.



JD DELCORTE FITTINGS		CALCULATION NOTE	
		Reinforced Branch Connection / Weldolets	
		ASME B 31.3 - 2008	
JOB : TOTAL ROG REFINERY ANTWERPEN			
Product Designation BW Outlet Sch STD / STD - 48" x 14"			
BRND:	NPS = 48	Schedule = 312	
Welder:	NPS = 48	Schedule = 312	
Dimensions (mm)		FRTG:	
BRND:	Di = 355.6	W = 80	
Welder:	Di = 1219	W = 38.23	
BRND:	Di = 1219	W = 38.23	
Welder:	Di = 1219	W = 38.23	
Service Conditions			
Pressure	15 bar	Ca (corrosion)	0 mm
Temperature	25 °C	M0 tolerance	0 mm
Quality Factor	1	V welder	0.4
	W = 1	V branch	0.4
Material			
Welder			
Fitting			
Calculations			
h =			
2b / r =			
h =			
h1 =			
h2 =			
h3 =			
h4 =			
h2 + h3			



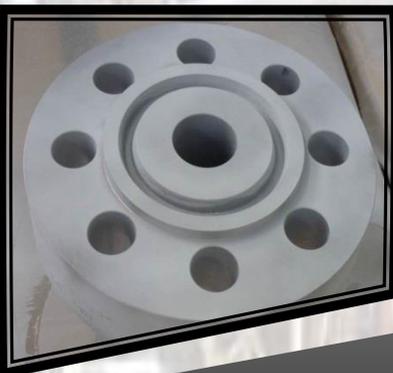
## TESTINGS & INSPECTION FACILITIES

DELCORTE offers a complete solution by delivering a product which is in conformity with each customer's needs, performing in-house testing such as PMI, ferrite check, dye penetrant test, Magnetic particle inspection, hardness test, charpy impact test.

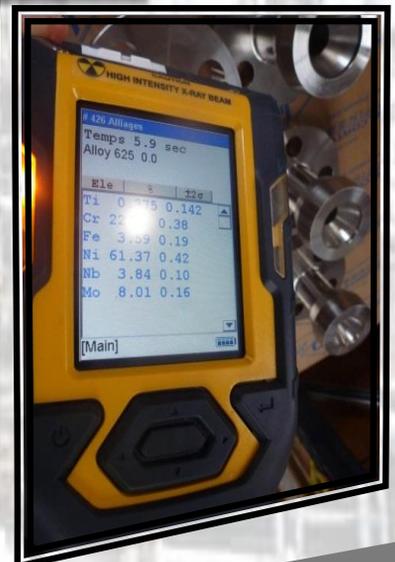
Our laboratory is fully equipped with the most modern testing instruments and state-of-the-art facilities for chemical, mechanical, non-destructive and other testings.

We also use independent laboratories to perform destructive testing such as corrosion test, metallographic examination, microstructure examination and chemical analysis.

**Liquid penetrant examination**



**PMI**



## TESTINGS & INSPECTION FACILITIES

### THE FOLLOWING TESTS CAN BE PERFORMED :

- Impact test up to  $-196^{\circ}\text{C}$
- Tensile test
- Hardness test
- Metallographic examination
- Chemical analysis
- Corrosion test
- Burst test (olet range)
- PMI
- Magnetic particle inspection
- Liquid penetrant examination
- Ultrasonic testing
- Simulation of post welding heat treatment (PWHT)

**Magnetic particle inspection**



**Burst test**



**Ultrasonic testing**



# CERTIFICATION



## Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that: **Delcor S.A.S.**  
BP 597  
59052 Maubeuge Cedex  
France

Holds Certificate No: **Q 05524**

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

**Please see scope page.**

For and on behalf of BSI: **Gary Fenner, Global Assurance Director**

Originally registered: 20/11/1987      Latest issue: 14/11/2012      Expiry Date: 27/11/2015

Page: 1 of 2



...making excellence a habit!

This certificate may be used externally and remains the property of BSI and is loaned to the certificate holder. No alteration can be made to the certificate without the written consent of BSI. Printed copies of the original certificate are available on request to telephone +44 (0) 1628 530072.

Information and Contact: BSI, International Standards Department, 100 Brook Hill Drive, West Nyack, NY 10994-2173, USA. Tel: +1 845 390 3300  
BSI Customer Services, 389 Chiswick Avenue, Uxbridge, Middlesex UB8 3PH, UK. Tel: +44 (0) 1628 530072  
A Member of the BSI Group of Companies.



Licensee n° : #116      Updated on February 28<sup>th</sup>, 2013

### CERTIFICATE OF QUALIFICATION

This is to certify that Delcor S.A.S, located at 17 avenue du Corbeau, 59065 Maubeuge Cedex, France, is an approved **VAM®** Licensee. Delcor S.A.S, 17 avenue du Corbeau, 59065 Maubeuge Cedex, France, is authorized to manufacture **VAM®** products and has been successfully qualified to cut the following connections:

Connections	Ends	Connections	Ends
VAM® TOP Casting	box	VAM® TOP HC	box
VAM® TOP BT	box	VOID	VOID

Any connection cut by Delcor S.A.S, 17 avenue du Corbeau, 59065 Maubeuge Cedex, France, is marked with the following logo: **VAM®** LDV.

**F. DAVID**  
VAM® Services, General Manager  
To verify the authenticity of this certificate go to [www.vamcert.com](http://www.vamcert.com)  
Do not duplicate  
VAM® is a registered trademark of Valloire Mannesmann Oil & Gas France



Certificate No. VS 116      Date: February 6<sup>th</sup>, 2013



**VALLOUREC & MANNESMANN TUBES  
OCT Division**

THIS IS TO CERTIFY THAT:  
**DELCORTE S.A.S  
Maubeuge, France**

Has been granted a **VAM®** License to apply **VAM®** joints technology on Couplings.

The license was granted after assurance had been obtained that the Licensee's machining capabilities, quality control procedures, reputation in the oil and gas industry and ethics are in keeping with the requirements of **VAM®** Services, a division of VALLOUREC MANNESMANN OIL & GAS FRANCE.

Their quality and compliance to **VAM®** Specifications are checked at least once a year during the Annual **VAM®** Audits.

DELCORTE S.A.S, Maubeuge, France, is a distinguished member of the world-wide **VAM®** Licensee network.

**François DAVID**  
General Manager of VAM® Services  
To verify the authenticity of this certificate go to [www.vamcert.com](http://www.vamcert.com)  
Do not duplicate  
VAM® is a registered trademark of Valloire Mannesmann Oil & Gas France




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

License Number: **5CT-0040**      ORIGINAL

The American Petroleum Institute hereby grants to:

**DELCORTE S.A.S  
17 Avenue Du Corbeau  
Maubeuge  
France**

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-5CT** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5CT-0040**

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: Manufacturer of Gasing or Tubing Couplings - Group 1, H40/PSL 1, J55/PSL 2, PSL 3, K55/PSL 2, PSL 3, N80 (1)/PSL 2 and N80(Q)/PSL 3, - Group 2, C 110/PSL 1, C90/PSL 3, L80 (1)/PSL 3, L80 (1)C/PSL 3, L80 (1)C/PSL 3, L80 (1)C/PSL 3, - Group 3, P 110/PSL 3, - Group 4, Q 125/PSL 3

QMS Exclusions: Design and Development; Servicing

Effective Date: **JANUARY 12, 2015**  
Expiration Date: **APRIL 2, 2017**

**John M. Mohr**  
Vice President, Global Industry Services

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




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

License Number: **5L-0021**      ORIGINAL

The American Petroleum Institute hereby grants to:

**DELCORTE S.A.S  
17 Avenue Du Corbeau  
Maubeuge  
France**

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-5L** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5L-0021**

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: Manufacturer of Line Pipe Couplings - Type of Pipe: SMLS / Max. Grade: B

QMS Exclusions: Design and Development; Servicing

Effective Date: **JANUARY 12, 2015**  
Expiration Date: **APRIL 2, 2017**

**John M. Mohr**  
Vice President, Global Industry Services

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



## APPROVALS

**OUR FITTINGS ARE APPROVED BY  
THE FOLLOWING MAJOR OIL COMPANIES:**



شركة أبوظبي للعمليات البترولية البرية (أدكو)  
Abu Dhabi Company for Onshore Oil Operations (ADCO)



قطر للبترول  
Qatar Petroleum



and many more...

## PROJECT REFERENCE LIST

PROJECT NAME / CUSTOMER	JD PRODUCTS SUPPLIED	GRADES	LOCATION	YEAR
INDORAMA PROJECT	FORGED FITTINGS AND BRANCH OUTLETS BW – SW - THRD	A105 – A350 LF2 – A106B-A333 GR6 – A234 WPB – A420 WPL6 – A182 F304L – A182 F316L – A182F44	THE NETHERLANDS	2015
MATINDOK GAS DEVELOPMENT PROJECT / PT PERTAMINA EP – TECHNIP	FORGED FITTINGS, BRANCH OUTLETS	INCOLOY 825	INDONESIA	2015
INTECSA - UMM WU'AL EPC PROJECT – MA'ADEN WA'AD AL SHAMAL PHOSPHATE	FORGED FITTINGS AND BRANCH OUTLETS SW-BW	A105N, A106B, A234WPB, A333 A350LF2, F304L, F316L, F904L, A182F60, ALLOY20	SAUDI ARABIA	2014-2015
TROUVAY CAUVIN FLUOR CANADA NWR PROJECT	FORGED FITTINGS, BRANCH OUTLETS SW & NPT	F304L/316L/317L/347H/321H F11/F22/ UNS08825	CANADA	2014-2015
STURGEON PROJECT - NORTH WEST REDWATER PARTNERSHIP	FORGED FITTINGS SW & NPT	A105N, A106B, A234WPB, A350LF2, A420WPL6, A182F304L-F316L, WP304L, HAST, C276	CANADA	2014-2015
TOTAL OLEFINS ANTWERPEN- KINETICS TECHNOLOGY Spa-ICARUS - REFINERY OFF GAS PROJECT (ROG)	FORGED FITTINGS, BRANCH OUTLETS BW-THRD, NIP OUTLETS	A105, A105 HDG A350 LF2, A182 F304/ 304L, A182F316/316L, A182F11,	BELGIUM	2014/2015
QUALITY STAMP TRADING ESTABLISHMENT -SAUDI ARAMCO LONG TERM AGREEMENT	FORGED FITTINGS, BRANCH OUTLETS SW	A105, A105 GALV, A350 LF2, A182F304L, A182F316L, A403 WP316L, A182F321, A182F44, A182F5, CU90/10 UNS C70610	SAUDI ARABIA	2014-2015
SHAH DENIZ 2 PROJECT – ONSHORE BROWNFIELD	FORGED FITTINGS SW & NPT	A105, A105GALVA, A350LF2, A333 Gr,6, A234WPB-A420WPL6, F304L, WP304L	AZERBAIJAN	2014
TOTAL - TECHNIP - YADANA EXPANSION PROJECT	BRANCH OUTLETS BW	A182F51	MYANMAR / ANDAMAN SEA	2014
PETRONAS - TECHNIP / MMHE - SK316	BRANCH OUTLETS BW, SWEEPOLETS AND NIPOFLANGES	A182F51	MALAYSIA	2014
NAFTAN - FOSTER WHEELER	FORGED FITTINGS, BRANCH OUTLETS BW-SW-THRD	A105, A350LF2, A182F5, A182F9, A182F11, A182F304L	REPUBLIC OF BELARUS	2014
SAUDI ARAMCO HOLLAND	FORGED FITTINGS	Cu-Ni 9010	SAUDI ARABIA	2014
SAUDI ARAMCO- 2-YEAR FRAME AGREEMENT	FORGED FITTINGS, BRANCH OUTLETS BW-SW-THRD	MONEL 400, A182 F5, A182F316L, A182F304L, A105	SAUDI ARABIA	2014
SAUDI ARABIAN MINING COMPANY- MAA'DEN AD DUWAHI GRAVITY-CIL GOLD PROJECT	FORGED FITTINGS AND BRANCH OUTLETS SW - BW	A105, A105 GALV, A350LF2A182F304L, A182F316L	SAUDI ARABIA	2014
CAIRN INDIA / VALLOUREC	VAM TOP COUPLINGS	P110	INDIA	2014

## PROJECT REFERENCE LIST

PROJECT NAME / CUSTOMER	JD PRODUCTS SUPPLIED	GRADES	LOCATION	YEAR
MISSAN OIL Comp. PETROCHINA INT. IRAQ / VALLOUREC	API COUPLINGS	L80	IRAQ	2014
TOYO ENGINEERING - IKPT- PANCA AMARA UTAMA	BRANCH OUTLETS BW AND NIPOFLANGES	A182F51, A182F316L	INDONESIA	2014
BUHLMANN GERMANY - LINDE BAYTOWN PROJECT	FORGED FITTINGS, BRANCH OUTLETS UP TO 24" BW - SW - THRD, SWEEPOLETS, NOZZLES AS PER CUSTOMER'S DRAWINGS	A105, A350 LF2, A182 F304L, A182F316L, A182F321, A182F11, A182 F91	USA	2014
PETROBRAS- MODEC - FPSO CIDADE DE CARAGUATATUBA MV27	BRANCH OUTLETS BW, SWEEPOLETS AND NIPOFLANGES	A182 F51, A694 F65	BRAZIL	2014
ADMA OPCO ABU DHABI - KADDAS (KOSTCO) - SUPPLY OF FITTINGS - 2 YEARS PRICE AGREEMENT	FORGED FITTINGS, BRANCH OUTLETS BW-THRD, LATERAL OUTLETS	A694 F52, A182F321, A182F316, A105.N, A312TP316L, A312 TP321, A182 F53 SUPER DUPLEX	UAE	2014
TOTAL - TECNICAS REUNIDAS- OPTARA PROJECT -ANTWERP REFINERY	FORGED FITTINGS	A182F316L& A182F321	BELGIUM	2014
EVT JV - KURVERS SINGAPORE- WHEATSTONE PROJECT	FORGED FITTINGS	A182F304L	AUSTRALIA	2014
ETHYDCO - TOYO ENGINEERING CORP -ETHYLENE BUTADIENE EXTRACTION UNIT PROJECT	LATERAL OUTLETS UP TO 10"	A182F304L	EGYPT	2014
EXXONMOBIL-LINDE-BECHTEL- NORTH AMERICAN GROWTH OLEFINS RECOVERY PROJECT	FORGED FITTINGS, BRANCH OUTLETS BW-SW-THRD, NOZZLES AS PER CUSTOMER'S DRAWINGS	A105,A182F304L, A182F11 CL2,F91	USA	2014
PPTC- LATKRABANG SPP POWER PLANT PROJECT	FORGED FITTINGS AND BRANCH OUTLETS SW	A182F22 CL3, F91	THAILAND	2014
PETROBRAS - JURONG ARACRUZ SHIPYARD -FPSO'S P68 & P71	FORGED FITTINGS AND BRANCH OUTLETS BW	A182F51,A182F53,UNS NO 6625	BRAZIL	2014
PETROBRAS- QGI OIL AND GAS INC- P75 & P77 PROJECT	FORGED FITTINGS AND BRANCH OUTLETS BW	UNS NO 6625	BRAZIL	2014

## PROJECT REFERENCE LIST

PROJECT NAME / CUSTOMER	JD PRODUCTS SUPPLIED	GRADES	LOCATION	YEAR
TOTAL E&P RUSSIA- GENOYER GROUP- KHARYAGA DEVELOPMENT PROJECT PHASE 3 PAD EP2	FORGED FITTINGS AND BRANCH OUTLETS SW-THRD-BW	A350LF2, A182F316L	RUSSIA	2014
KURVERS PIPING-CBI- EXXON MOBIL LONGFORD GAS CONDITIONNING PLANT PROJECT	FORGED FITTINGS AND BRANCH OUTLETS UP TO 12" (SW-THRD-BW-FLG)	A105, A182F316L,	AUSTRALIE	2014
TULLOW GHANA LTD- MODEC- TEN DEVELOPMENT PROJECT: FPSO PACKAGE	BRANCH OUTLETS BW AND NIPOFLANGES	A182 F51, A182F53, A694 F65	GHANA	2014
MINISTRY OF ELECTRICITY-STX HEAVY INDUSTRIES- AL-AMMRA GAS TURBINE POWER PLANT PROJECT	FORGED FITTINGS AND BRANCH OUTLETS SW	A105, A182F316L	IRAK	2014
BURGAS - LUKOIL	FORGED FITTINGS	A350LF2	BULGARIA	2014
NESTE OIL PROJECT	FORGED FITTINGS, BRANCH OUTLETS, NIPOFLANGES	A105, A350 LF2,A694 F60, A182 F304L, A182 F316L, A182 F321, A182 F5, A182 F9, A182 F22, INCONEL 625	FINLAND, SINGAPORE, THE NETHERLANDS	2013-2014
PETROBRAS FPSO P74 CESSAO ONEROSA	FORGED FITTINGS AND BRANCH OUTLETS BW	A105, UNS N0 6625	BRAZIL	2013-2014
TAKREER- INTECSA INDUSTRIAL ABU DHABI- FLARE GAS RECOVERY SYSTEM IN RUWAIIS REFINERY	FORGED FITTINGS AND BRANCH OUTLETS SW-THRD-BW	A105, A105 GALV, A182F316L	UAE	2013-2014
BASF NASA PROJECT - KURVERS PIPING	BRANCH OUTLETS BW	UNS N08020	CHINA	2013
DOW CHEMICAL-SAUDI ARAMCO JV - FOSTER WHEELER THAILAND- PO PROJECT SADARA COMPLEX	FORGED FITTINGS AND BRANCH OUTLETS BW-SW-THRD- SWEEP-OUTLET	A105,A350LF2, A182F304L, A182F316L, A182F51,A182F53	SAUDI ARABIA	2013
DOW CHEMICAL -SAUDI ARAMCO JV - FLUOR UK- POWER DISTRIBUTION SADARA COMPLEX	FORGED FITTINGS AND BRANCH OUTLETS BW-SW-THRD- SWEEP-OUTLET	A105,A350LF2, A182F304L, A182F316L,	SAUDI ARABIA	2013
JSC MINERALNIE UDOBRENIA, PROMYSHLENNAYA ST, 96	SPECIAL HEAVY WALL THICKNESS WELD OUTLETS	A350LF2	RUSSIA	2013
DUNKERQUE LNG - ENTREPOSE CONTRACTING-GROUPE GENOYER	FORGED FITTINGS AND BRANCH OUTLETS	A182F316L	FRANCE	2013
DOW CHEMICAL-SAUDI ARAMCO JV -TECNICAS REUNIDAS- GROUPE GENOYER- EO, ESS PROJECT SADARA COMPLEX	FORGED FITTINGS AND BRANCH OUTLETS AND SPECIAL INSERT OUTLETS	A105,A182F316L, A182F51,A182F53	SAUDI ARABIA	2013
TOTAL E&P NIGERIA- NIGERDOCK PLC-GROUPE GENOYER OFON PHASE II	FORGED FITTINGS AND BRANCH OUTLETS BW	A105, A350LF2, A694F65	NIGERIA	2013
OSX - EUROBRAS PIPING OSX WHP 02 PROJECT	FORGED FITTINGS AND BRANCH OUTLETS	UNS N06625	BRAZIL	2013

## PROJECT REFERENCE LIST

PROJECT NAME / CUSTOMER	JD PRODUCTS SUPPLIED	GRADES	LOCATION	YEAR
PT NIPPON STEEL-TECNICAS REUNIDAS-CUNADO YARA TAN BURRUP PROJECT	FORGED FITTINGS BRANCH OUTLETS BW	A105,A350LF2, A182F304L,A182F11, A182F321	INDONESIA	2013
DOW CHEMICAL -DAELIM- GROUPE GENOYER- SADARA ISOCYANATES PROJECT	FORGED FITTINGS AND BRANCH OUTLETS FOR HOT NITRIC ACID SERVICE	A182F304L/1,4306	SAUDI ARABIA	2013
AL JUBAIL PETROCHEMICAL COMPANY (kemya) SAUDI ELASTOMER PROJECT	FORGED FITTINGS	UNS N08020	SAUDI ARABIA	2013
BASF NASA PROJECT - KURVERS PIPING	BRANCH OUTLETS BW	UNS N08020	CHINA	2013
ILK CONSTRUCTION	FLANGE-OUTLETS AND SWEEP-OUTLETS	A350LF2,A182F316L,	TURKMENISTAN	2013
OSX - EUROBRAS PIPING OSX WHP 02 PROJECT	FORGED FITTINGS AND BRANCH OUTLETS	UNS N06625	BRAZIL	2013
ADCO - BAB THAMAMA HABSHAN 2 1,8MMBOPD PHASE 1 DEVT PROJECT	SPECIAL 2" LATROLET	A105	UAE	2012
TATWEER PETROLEUM NEW-WELL MANIFOLD FACILITIES PROJECT	FORGED STEEL FITTINGS AND BRANCH OUTLETS	A105, A350 LF2, A182F304L, A182F316L	BARHEIN	2012
INDIAN OIL PARADIP REFINERY PROJECT (PDRP)	FORGED STEEL FITTINGS	A182F11	INDIA	2012
TECNICAS REUNIDAS TOTAL RAFFINAGE MARKETING PROJECT	STEEL FITTINGS, BRANCH OUTLETS	A105, A350 LF2, A182F304L, A182F316L	FRANCE	2012
CB&I UK LTD 2 LNG TANKS CJJV FOR PNG LNG	FORGED FITTINGS AND BRANCH OUTLETS	A182F53	PAPUA NEW GUINEA	2012
TATWEER PETROLEUM NEW-WELL MANIFOLD FACILITIES PROJECT	FORGED STEEL FITTINGS AND BRANCH OUTLETS	A105, A350 LF2, A182F304L, A182F316L	BARHEIN	2012
TECNICAS REUNIDAS ARAMCO - AL KHAFJI PROJECT	FORGED FITTINGS , BRANCH OUTLETS	A105, A350LF2, A182F44,A182F316L	SAUDI ARABIA	2012
INDIAN OIL PARADIP REFINERY PROJECT (PDRP)	FORGED STEEL FITTINGS	A182F11	INDIA	2012
TECNICAS REUNIDAS TOTAL RAFFINAGE MARKETING PROJECT	STEEL FITTINGS, BRANCH OUTLETS	A105, A350 LF2, A182F304L, A182F316L	FRANCE	2012

## PROJECT REFERENCE LIST

PROJECT NAME / CUSTOMER	JD PRODUCTS SUPPLIED	GRADES	LOCATION	YEAR
TOTAL E&P BORNEO TIE IN WELD CONNECTION PROJECT	FORGED STEEL FITTINGS (CS-LTCS- & SS) AND BRANCH OUTLETS	A182F51	INDONESIA	2011
STORENGY UK LIMITED STUBLACH GAS STORAGE GP & I	BRANCH OUTLETS LTCS	A305LF2, A182F316L	UK (CHESHIRE)	2011
CB&I THAILAND GORGON LNG PROJECT	FORGED STEEL FITTINGS (SS & SD) AND BRANCH OUTLETS	A182F53	THAILAND	2011
EXXON MALAYSIA TAPIS TELOK PROJECT	HIGH YIELD STRENGTH FLANGE-OUTLETS AND WELD-OUTLETS	A694 F65	MALAYSIA	2011
ADMA-OPCO DEMOTHBALLING PROJECT	FLANGE-OUTLETS & WELD-OUTLETS	A105, A694F60	ABU DHABI	2011
FOSTER WHEELER UTE AFRICASOLAR- LA AFRICANA PROJECT	FORGED STEEL FITTINGS AND BRANCH OUTLETS	A105	SPAIN	2011
ENPPI/ SUMED	FLANGE-OUTLETS AND WELD-OUTLETS	A694F60	EGYPT	2011
IBN RUSHD AFFILIATE OF SABIC AROMATIC & PTA EXPANSION PROJECT	FORGED STEEL FITTINGS AND BRANCH OUTLETS	A105, A182F304L, A182F316L, B62	SAUDI ARABIA	2011
TECNICAS REUNIDAS ARAMCO - AL JUBAIL PROJECT	FORGED FITTINGS	A105, A350 LF2, A182F304L, A182F316L	SAUDI ARABIA	2011
CONOCO PHILLIPS PETROLEUM COMPANY UK LTD WORLEY PARSONS JASMINE DEVELOPMENT PROJECT	FORGED FITTINGS	A182F55	UNITED KINGDOM	2011
ZADCO- WORLEY PARSON- SATAH FULL FIELD DEVELOPMENT PROJECT	BRANCH OUTLETS BW	A350 LF2	ABU DHABI	2011
SAUDI ARAMCO	STEEL FITTINGS AS PER API STANDARDS	K55	SAUDI ARABIA	2011-2012
CB&I LUMMUS NIS PETROLEUM INDUSTRY OF SERBIA PANCEVO OIL REFINERY MODERNIZATION	FORGED STEEL FITTINGS (CS-LTCS- & SS) AND BRANCH OUTLETS	A105, A182F304L, A182F316L	SERBIA	2011
BOCCARD - FOSTER WHEELER STORENGY PROJECT BEYNES ADAPTATION ET RENOVATION STATION BEYNES PHASE 1	FORGED STEEL FITTINGS AND BRANCH OUTLETS	A350LF2, A182F304L, A182F316L	FRANCE	2010
TATWEER PETROLEUM BAHRAIN FIELD DEVELOPMENT ASSOCIATED GAS EXPANSION PHASE 1 PROJECT	FORGED STEEL FITTINGS AND BRANCH OUTLETS BW	A105, A182F316L	ABU DHABI	2010
TECHNIP France STG REPLACEMENT OF STEAM TURBO REGENERATORS POWER PLANT PROJECT FOR BAPCO	FORGED STEEL FITTINGS AND BRANCH OUTLETS BW	A105, A182F316L,	BAHREIN	2010

## **MANUFACTURING / PACKING / DELIVERY**

Our advanced technology is supported by state-of-the-art manufacturing equipment which enables us to meet not only the requirements of internationally accepted manufacturing standards, but to cope also with the growing demand of special fittings. We manufacture over 10000 references of products.



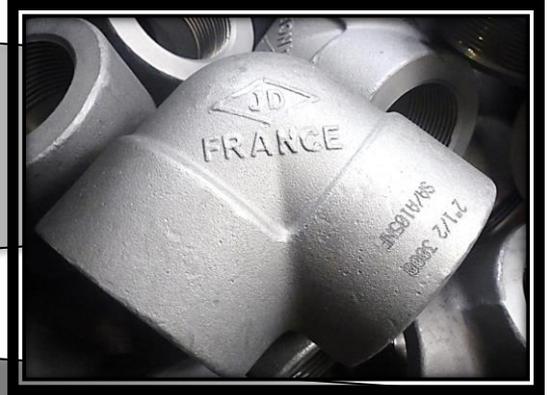
All our products are packed in plastic bags, carton boxes, wooden crates or wooden pallets meeting ISPM15 regulations. Crates and pallets can be made in any size and dimensions. We keep a large inventory of finished products which enables express shipping of products for our clients.

## HIGH PRESSURE DIVISION

### MATERIAL GRADE FOR FORGED FITTINGS AND REINFORCED BRANCH FITTINGS

#### ➤ CARBON AND ALLOY STEEL:

- A105.N – A106.B (HOT DIP GALVANISED, ELECTROPLATING).
- A350 : LF2, LF3, LF6.
- A694 : F42, F52, F60, F65, F70.



#### ➤ AUSTENITIC STAINLESS STEEL :

- A182 F : 304/304L, 304H, 310, 316/316L, 316H, 316Ti, 317L, 347/347H, 321/321H, F20, F44, F904L.
- A312 TP : 304/304L, 304H, 310, 316/316L .....

#### ➤ LOW ALLOY STEEL :

- A182 : F5, F9, F91, F11, F22.
- A335 : P5, P9, P 91 , P11, P22.

#### ➤ FERRITIC AUSTENITIC STAINLESS STEEL:

- DUPLEX : A182 F51/F60 – UNS S 31803/UNS S 32205
- SUPER DUPLEX : F53/F55 – UNS S32750/UNS S32760

#### ➤ NICKEL ALLOY STEEL :

- INCONEL : 600 - 625 - 718.
- INCOLLOY : 800 - 800H – 800HT - 825.
- HASTELLOY : B2 - B3 - C22 - C276 – C2000.
- MONEL: 200/201, 400, K500.
- CARPENTER 20CB3 - ALLOY 20 – UNS N08020.

#### ➤ OTHERS :

- TITANE : T40 Gr 2 – UNS R50400
- Cu-Ni : 90/10, 70/30.
- BRONZE.



## HIGH PRESSURE DIVISION

### FORGED STEEL & STAINLESS STEEL FITTINGS FROM 1/8" UP TO 6"

<b>DIMENSIONS TO</b>	<b>ASME B 16.11-09 - BS3799 - MSS SP 79/SP83/SP95</b> <b>Threaded according to: ASME B1.20.1</b> <b>Socket Weld end according to: ASME B16.11 – 2009</b>
<b>MATERIALS</b>	<p><b><u>CARBON AND ALLOY STEEL :</u></b></p> <ul style="list-style-type: none"> <li>• A105.N – A106.B – A 333 Gr6</li> <li>• A350 : LF2, LF3, LF6.</li> <li>• A694 : F42, F52, F60, F65, F70.</li> </ul> <p><b><u>STAINLESS / AUSTENITIC STAINLESS STEEL :</u></b></p> <ul style="list-style-type: none"> <li>• A182 F : 304/304L, 304H, 310, 316/316L, 316H, 316Ti, 317L, 347/347H, 321/321H, F20, F44, F904L,</li> <li>• LOW ALLOY :</li> <li>• A182 : F5, F9, F11, F22, F91,</li> </ul> <p><b><u>FERRITIC AUSTENITIC STAINLESS STEEL:</u></b></p> <ul style="list-style-type: none"> <li>• DUPLEX : F51/F60; SUPER DUPLEX : F53/F55;</li> </ul> <p><b><u>NICKEL ALLOY STEEL :</u></b></p> <ul style="list-style-type: none"> <li>• INCONEL : 600 - 625 – 718; INCOLLOY : 800 - 800H – 800HT - 825;</li> <li>• HASTELLOY : B2 - C22 - C276 – C2000 – B3;</li> <li>• MONEL: 200, 201, 400, K500. CARPENTER 20CB3:</li> <li>• ALLOY 20</li> </ul> <p><b><u>OTHERS :</u></b></p> <ul style="list-style-type: none"> <li>• TITANE : Gr 2, T40.</li> <li>• Cu-Ni 90/10, 70/30</li> <li>• BRONZE</li> </ul>
<b>FINISHING</b>	Black, hot dip galvanizing, electro plating <b>Stainless steel:</b> Pickled & Passivated
<b>ENDS</b>	NPT / BSP / Socket Weld / Metric & Special threads
<b>RATING</b>	2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS & 10 000 LBS



**FORGED FITTINGS**



## HIGH PRESSURE DIVISION

### REINFORCED BRANCH FITTINGS

<b>DIMENSIONS TO</b>	<p>Dimensions : from 1/8" up to 48" – MSS SP 97-12          Pipe dimensions as per: ANSI B36.10 – B36.19          Beveled according to: ASME B16.25 – 2007          Threaded according to: ASME B1.20.1          Socket end according to: ASME B16.11 – 2009</p>
<b>MATERIALS</b>	<p><b><u>CARBON AND ALLOY STEEL :</u></b></p> <ul style="list-style-type: none"> <li>• A105 N</li> <li>• A350 : LF2, LF3, LF6.</li> <li>• A694 : F42, F52, F60, F65, F70.</li> </ul> <p><b><u>STAINLESS / AUSTENITIC STAINLESS STEEL :</u></b></p> <ul style="list-style-type: none"> <li>• A182 F : 304/304L, 304H, 310, 316/316L, 316H, 316Ti, 317L, 347/347H, 321/321H, F20, F44, F904L,</li> <li>• LOW ALLOY :</li> <li>• A182 : F5, F9, F11, F22, F91,</li> </ul> <p><b><u>FERRITIC AUSTENITIC STAINLESS STEEL:</u></b></p> <ul style="list-style-type: none"> <li>• DUPLEX : F51, F60; SUPER DUPLEX : F53, F55;</li> </ul> <p><b><u>NICKEL ALLOY STEEL :</u></b></p> <ul style="list-style-type: none"> <li>• INCONEL : 600 - 625 – 718; INCOLLOY : 800 - 800H – 800HT - 825;</li> <li>• HASTELLOY : B2 - C22 - C276 – C2000 – B3;</li> <li>• MONEL: 200, 201, 400, K500.</li> <li>• CARPENTER 20CB3: ALLOY 20</li> </ul> <p><b><u>OTHERS :</u></b>          TITANE : T40 Gr. 2 – UNS R50400          Cu-Ni 90/10, 70/30.          BRONZE</p>
<b>FINISHING</b>	<p>Black, hot dip galvanizing, electro plating,  <b>Stainless steel:</b> Pickled &amp; Passivated</p>
<b>ENDS</b>	NPT / BSP / Socket Weld / BW / Plain end
<b>RATING</b>	2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS & 10 000 LBS
<b>SCHEDULE</b>	SCH: from 5S to XXS and other heavy thicknesses

## JD BRANCH OUTLETS



**JD SOCK-OUTLETS**



**JD THREAD -OUTLETS**



**JD NIP-OUTLETS**

**JD SWEEP OUTLETS**



**JD HEAVY DUTY SWEEP OUTLETS**



## JD BRANCH OUTLETS

### JD WELD OUTLETS



### JD INSERT WELD OUTLETS



## JD BRANCH OUTLETS

**JD FLANGED OUTLETS**



**JD LATERAL OUTLETS**



**JD INSERT LATERAL OUTLETS**



## SPECIAL PIECES / PARTS / FITTINGS

### OIL & GAS - CHEMICAL & PETROCHEMICAL & FOOD INDUSTRIES

We can offer a wide range of quality special pieces for the best price, express manufacturing of the pipeline components to be welded (Socket Weld / Butt Weld) or screwed, in any material, according to customer's drawings or in any international standards. You also benefit from our design department experience for the setting up of your drawings.

<b>DIMENSIONS TO</b>	<b>at customer's option</b>
<b>MATERIALS</b>	Carbon steel, Alloy steel, Stainless steel, Duplex, Super duplex, Nickel Alloys, Special Alloys and others
<b>ENDS</b>	Threaded (NPT/BSP/BSPT) Welded (Socket weld/Butt weld)
<b>RATING</b>	according to customer's request: High pressure division, Low pressure division
<b>TYPES</b>	all types according to customer's order
<b>EXPRESS DELIVERIES</b>	Airfreight shipment within 48 to 72 hours

\*Depending on series and designs



**Special SHELL caps  
(Leak sealing)**

## API COUPLINGS DIVISION

### API 5CT CASING & TUBING COUPLINGS CASING COUPLING API 5CT – 2011 (BTC-LTC-STC) TUBING COUPLING API 5CT – 2011 (EUE & NU)

<b>DIMENSIONS</b>	Casing: from 4 1/2" to 20" Tubing: from 1.050 to 4 1/2"
<b>MATERIALS</b>	GRADE MARKING Steel Grade: H40, J55, K55, N80 type 1, P110, L80 type 9Cr, L80 type 13 Cr, C90 type 1, C90 type 2, C95, T95 type 1, T95 type2, Q125 type 1, Q125 type 2, Q125 type 3, Q125 type 4, N80Q
<b>ENDS</b>	Casing: (Short Round threaded / Long Round Threaded / Buttress Threaded) Tubing: Non upset, external upset



#### OUR REFERENCES :

- VALLOUREC
- TENARIS
- HUNTING
- ARAMCO

## API COUPLINGS DIVISION

### API 5L – LINE PIPE COUPLING

<b>DIMENSIONS TO</b>	from 1/8" to 20"
<b>FINISHING</b>	Black, hot dip galvanizing, electro plated,
<b>ENDS</b>	According to: API 5B

**WE PROPOSE COUPLINGS  
ACCORDING TO API 5L &  
5CT AS WELL AS SPECIAL  
JOINTS, VAM, NEW VAM,  
VAM TOP, ...**



### **SPECIALIST OF LARGE DIAMETER COUPLINGS**

- European largest production capacity
- Permanent stock available
- Durable partnership with reputed coupling stock mills (Vallourec/Tenaris)

## LOW PRESSURE DIVISION

### PIPE NIPPLES AND TUBULARS

<b>DIMENSIONS</b>	according to EN 10241, from 1/8" to 6"
<b>MATERIALS</b>	Medium and heavy series welded pipes, seamless pipes,
<b>FINISHING</b>	Black, hot dip galvanizing
<b>THREADS</b>	BSP / EN 10226 / BS21/ISO7.1 / ISO 228 / NF03.004 / NF03.005 DIN 2999 / DIN259
<b>RATING</b>	Tubulars: tested min internal pressure of 50 bar, Fabricated fittings: tested min internal pressure of 75 bar Seamless fittings: tested min internal pressure of 150 bar

### STEEL COUPLINGS / SOCKETS AND FITTINGS FOR FIREFIGHTING INSTALLATIONS

<b>DIMENSIONS</b>	according to EN 10241, from 1/8" to 6" according to NFA 49192, from 1/4" to 2" according to ASTM A865 according to UL6
<b>MATERIALS</b>	special Delcorte socket tubing / seamless pipes
<b>FINISHINGS</b>	Black, degreased, hot dip galvanization, electro plating
<b>THREADS</b>	<b>Steel Couplings:</b> BSP / EN 10226 / BS21 / ISO7.1 / ISO 228 / NF03.004 / NF03.005 DIN 2999 / DIN259 <b>Steel merchant couplings:</b> ANSI B 1.20.1

### WROUGHT STEEL THREADED FITTINGS EN 10241

<b>DIMENSIONS</b>	according to EN 10241, from 1/8" to 6"
<b>MATERIALS</b>	Forgings / seamless pipes / round and hexagonal bars
<b>FINISHING</b>	Black, hot dip galvanization, electro plating, zinc flake
<b>THREADS</b>	BSP / EN 10226 / BS21 / ISO7.1 / ISO 228 / NF03.004 / NF03.005 DIN 2999 / DIN259
<b>RATING</b>	Tubulars: tested min internal pressure of 50 bar, Fabricated fittings: tested min internal pressure of 75 bar Seamless fittings: tested min internal pressure of 150 bar

## LOW PRESSURE DIVISION

**STEEL COUPLINGS / SOCKETS AND  
FITTINGS FOR FIRE FIGHTING  
INSTALLATIONS**

**STEEL COUPLINGS / SOCKETS  
AND FITTINGS FOR FIRE  
FIGHTING INSTALLATIONS**



## LOW PRESSURE DIVISION

### WROUGHT STEEL THREADED FITTINGS



## DELCORTE IS YOUR BEST PARTNER FOR YOUR CONNECTION NEEDS



Our company is located in Maubeuge, in the North of France.  
We are close to public transportation and major highways.

### Airports

- **FRANCE :**
  - Paris - Charles de Gaulle Airport around 200 km (2h)
  - Lille - Lesquin Airport around 80 km (50 min)
- **BELGIUM :**
  - Brussels - Airport Zaventem around 100 km (1h10 )
  - Brussels - South Charleroi Airport around 75 km (1h)

### DELCORTE FRANCE

*Plant & Head Office, 17 rue du Corbeau 59600 MAUBEUGE FRANCE*

*Tel : +33 (0) 327 691 414 • Email : [info@delcorte.com](mailto:info@delcorte.com) •  
[www.delcorte.com](http://www.delcorte.com)*