

DELCORTE
FITTINGS
COMPANY PROFILE

Specialist of:

**Forged fittings
Branch outlets
& API couplings**



- CARBON STEEL
- ALLOY STEEL
- STAINLESS STEEL
- DUPLEX & SUPER DUPLEX
- NICKEL ALLOY
& OTHER EXOTICS



DELCORTE S.A.S
MAUBEUGE • FRANCE

Since 1924

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,  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.

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.

Hubert, Ludovic & Guillaume DELCORTE
Management team



SUMMARY

I. INTRODUCTION

- Our contacts
- Key historical events
- Key numbers
- Markets served

II. PRODUCTION PROCESS

- High pressure division
- Reinforced branch connections
- Special forged pieces & buttweld fittings
- API couplings division
- Low pressure division

III. QUALITY CONTROL

- Engineering solutions
- Testing & inspection facilities
- Services
- Manufacturing / packing /delivery
- Certifications
- Approvals



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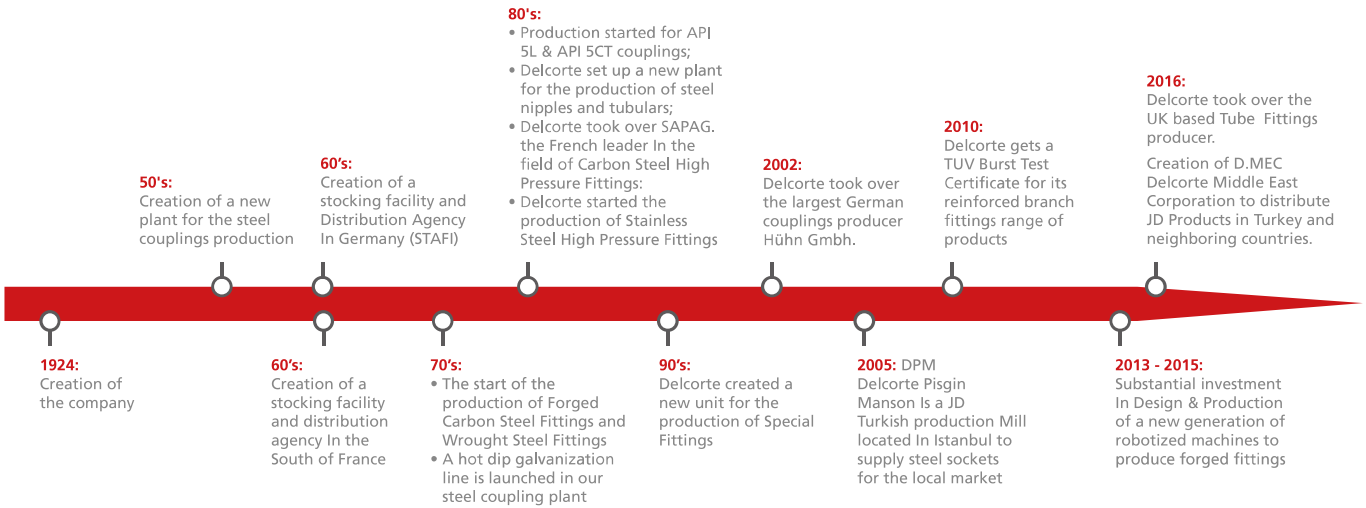


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KEY HISTORICAL EVENTS



KEY NUMBERS

since **1924**

250 employees

over **8 000** tons of raw materials



The overall production is dedicated to export market in **more than 60 countries**



Products are used in the **assembly of piping systems** for:

- oil and gas
- nuclear
- chemical & petrochemical
- steam & water
- subsea & specific application

Worldwide presence in many oil & gas projects

90 years of know-how and experience on the market of pipeline components



1



2



3



4

- 1 Oil & natural gas drilling, production, transportation
- 2 Subsea engineering
- 3 Refineries / Power plants
- 4 Chemical / Petrochemical plants



- Tees
- Caps
- Plugs
- Crosses
- Elbows
- Nipples
- Unions
- Couplings
- Bull plugs
- Swage nipples etc.

FORGED STEEL, STAINLESS STEEL, DUPLEX, SUPER DUPLEX & NICKEL ALLOY FITTINGS FROM 1/8" UP TO 6"

Dimensions according to ASME B16.11, MSS SP95, BS 3799, MSS SP83

- ▶ **RATING:** 2000/3000/6000/9000/10000
- ▶ **ENDS:** NPT/BSP/SW/Metric & Special threads
- ▶ **FINISHING:** Black, hot dip galvanizing, electro plating,
- ▶ **STAINLESS STEEL:** Pickled & Passivated

REINFORCED BRANCH CONNECTIONS



BRANCH OUTLET:

- Weld-outlet
- Sock-outlet
- Thread-outlet
- Nip-outlet
- Elb-outlet
- Lat-outlet



INSERT BRANCH OUTLET:

- Sweep-outlet
- Insert weld-outlet
- Insert lateral-outlet



FLANGED BRANCH OUTLET:

- Flange-outlet
- Nipoflange-outlet
- Elbo Flange-outlet
- Insert Flange-outlet
- API 6A/6BX Flange-outlet

SPECIAL FORGED PIECES & BUTTWELD FITTINGS



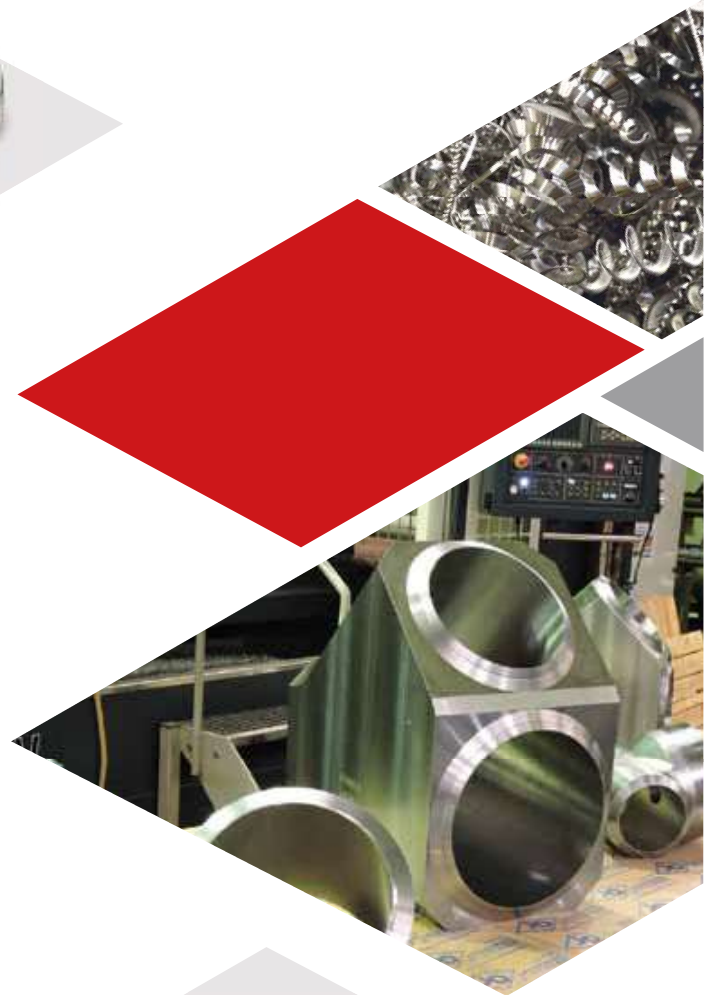
ASME B 16.9 FROM SOLID FORGINGS (SUBSEA & SPECIFIC APPLICATIONS)



► **MATERIALS:** Carbon steel, high yield carbon steel, alloy steel, stainless steel, duplex, super duplex, nickel alloy, special alloys and others.

On customer request DELCORTE designs and produces BW & Special heavy wall fittings up to 48"

- Lateral tee
- Target tee
- Wye pieces
- Barred tee
- Flanged tee
- Special parts, etc.



BUTTWELD FITTINGS ASME B16.9 FROM SOLID FORGINGS FROM 1/2" UP TO 48"



API 5CT CASING & TUBING COUPLINGS

DIMENSIONS	Casing: from 4 1/2" to 20" Tubing: from 1.050 to 4 1/2"
MATERIALS	<p>GRADE MARKING</p> <p>Steel grade: H40, J55, K55, N80 Type 1, P110, L80 Type 9Cr, L80 Type 13Cr, C90 Type 1, C90 Type 2, C95, T95 type1, T95 type 2, Q125 type 1, Q125 type 2, Q125 type 3, Q125 type 4, N80Q</p>
ENDS	Casing: (short round threaded / long round threaded / Buttress threaded) Tubing: non upset, external upset



OUR REFERENCES:

- Vallourec
- Tenaris
- Hunting
- Aramco



API 5L - LINE PIPE COUPLING

DIMENSIONS	From 1/8" to 20"
FINISHING	Black, hot dip galvanizing, electro plated
ENDS	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)



PIPE NIPPLES AND TUBULARS

DIMENSIONS	According to EN 10241, from 1/8" to 6"
MATERIALS	Medium and heavy series welded pipes, seamless pipes
FINISHING	Black, hot dip galvanizing
THREADS	BSP / En 10226 / BS21/ISO7. / ISO228 / NF03.004 / NF03.005 / DIN 2999 / DIN 259



STEEL COUPLINGS / SOCKETS AND FITTINGS FOR FIRE FIGHTING INSTALLATIONS

DIMENSIONS	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
MATERIALS	Special Delcorte socket tubing, seamless pipes
FINISHING	Black, degreased, hot dip galvanization, electro plating
THREADS	Steel couplings: BSP / En 10226 / BS21/ISO7. / ISO228 / NF03.004 / NF03.005 / DIN 2999 / DIN 259 Steel merchant couplings: ANSI B 1.20.1



WROUGHT STEEL THREADED FITTINGS EN 10241

DIMENSIONS	According to EN 10241, from 1/8" to 6"
MATERIALS	Forgings, seamless pipes, round and hexagonal bars
FINISHING	Black, hot dip galvanization, electro plating, zinc flake
THREADS	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
RATING	Tubulars: tested min internal pressure of 50 bar, Fabricating fittings: tested min internal pressure of 75 bar, Seamless fittings: tested min internal pressure of 150 bar



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. Our material is delivered with 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.

3.2 CERTIFICATE CARBON STEEL PROJECT



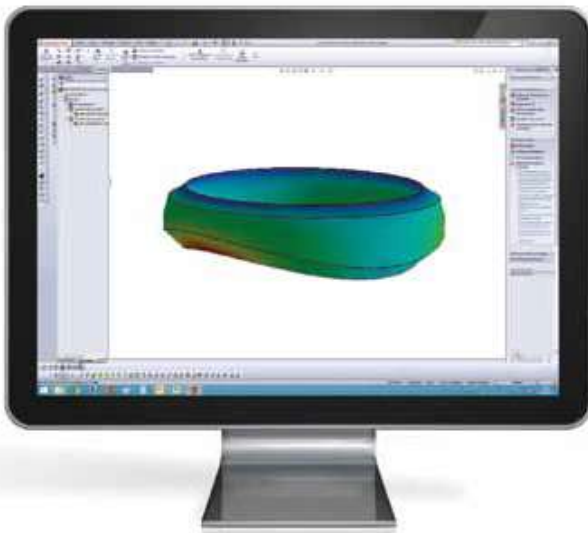
3.2 CERTIFICATE DUPLEX STEEL PROJECT



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"			
Branch:	NPS 42" Schedule 80	Weldolet:	NPS 42" Schedule 80
Header:	NPS 48" Schedule 80		
Dimensions (mm)		Flange: 89 T _h nom: 305.6 T _h min: 292.7 Head: 12.19 T _h max: 317.8	
Service Conditions		C _h (corrosion): 0 mm Pressure: 160.7 MPa Temperature: 205 °C Quality Factor: 1 W: 0	
Materials		Header: ASTM A 105 S = 160.7 MPa Flange: ASTM A 105 S = 160.7 MPa	
Calculations D _h = 1,784 mm D _h / 6 = 6,046 mm D _h / 6 = 59,27 mm D _h / 6 = 293,2 mm L ₄ = 20,85 mm A ₁ = 359,4 mm ² A ₂ = 359,4 mm ² A ₃ = 2172,85 mm ² A ₄ = 823,195 mm ² A ₁ = 1481,85 mm ² A ₂ = 805,012 mm ² A ₃ + A ₄ = 3110,792 mm ² Result: A ₁ < A ₂ + A ₃ + A ₄ Result: Validation OK			



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.

THE FOLLOWING TESTS CAN BE PERFORMED:

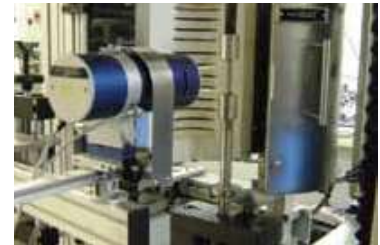
- Impact test up to - 196°C
- Tensile test
- Hardness test
- Metallographic examination
- Chemical analysis
- Corrosion test
- Burst test (olet range)
- PMI
- Magnetic particle inspection
- Liquid penetrant examination
- Ultrasonic testing
- Simulation of post welding heat treatment (PWHT)



Liquid penetrant examination



Magnetic particle inspection



Tensile test



Burst test



Corrosion test

Metallurgical analysis



SERVICES

- ▶ **CLADDING**
At the customer's request we can offer overlay welding with Inconel® 600/625, Incoloy® 800/825 etc.
- ▶ **COLOR CODING**
- ▶ **ANTI-GALLING**
At the customer's request we can offer anti galling thread coating.

RAW-MATERIAL STOCK

With an average of 8700 tons of a wide range of forgings, rings, seamless pipes and other different types of raw materials in many sizes and grades, we can deliver your projects worldwide in carbon steel, high yield, stainless steel, nickel alloy steel, duplex, super duplex...



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.

CERTIFICATIONS



5CT-0040
5L-0021

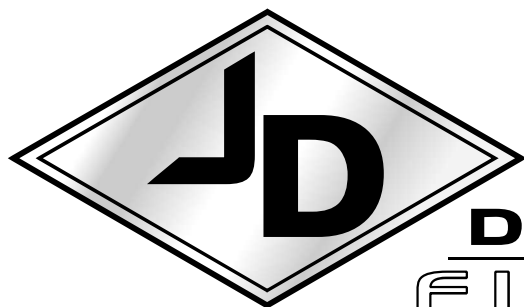


APPROVALS

OUR FITTINGS ARE APPROVED BY THE FOLLOWING MAJOR OIL COMPANIES:



and many more...



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● Our distribution platforms



**DELCORTE IS YOUR BEST PARTNER
FOR YOUR CONNECTION NEEDS**