



**FAD international** s.p.a

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## Company profile

Founded in 1995 with the intention of further developing the experiences previously derived from operating specifically in the oil & gas and petrochemical, our company is now increasingly specializing in the service.

This service is directed to customers who have realised the importance of releasing their internal resources, focusing them on primary strategic objectives, entrusting outside the role of optimize their purchases.

### The benefits of a single supply source are evident:

- One company which entrust the entire piping supply with availability from stock.
- One company to which send specifications, drawings and conditions.
- One company with which to communicate.
- One company who submit the certification requested.
- One company that invoices, instead of a multitude of accounting registers.
- A single collection place, saving transport cost and times.

### Fad International is able to supply from stock or with mill deliveries:

- Seamless pipes in carbon steel, stainless steel, alloy steel
- Welded pipes in carbon steel, stainless steel, alloy steel flanges
- Bw fittings
- Forged fittings
- Gaskets
- Studbolts
- Valvole
- Special forged pieces



FAD INTERNATIONAL fondata nel 1995, con l'intento di sviluppare ulteriormente le precedenti esperienze derivate dall'operare nello specifico settore petrolifero, petrolchimico ed energetico si sta sempre più specializzando nel "Service".

Questo impegno è rivolto alle Società che hanno recepito l'estrema importanza di liberare le proprie risorse interne, valorizzandole ed orientandole verso obiettivi strategici primari, affidando all'esterno il ruolo di ottimizzare i loro acquisti.

### I benefici sono evidenti: un solo fornitore - interlocutore ovvero:

- Una sola società alla quale affidare tutta la fornitura "piping", con disponibilità da magazzino a "stock".
- Una società alla quale inviare specifiche, tabelle, disegni, condizioni generali.
- Una sola società con la quale dialogare, comunicare.
- Una sola società che fattura, anziché una moltitudine di registrazioni contabili.
- Un solo luogo di ritiro e quindi risparmio sui costi e sui tempi di trasporto.

### La ns. società è in grado di fornire dal pronto di magazzino e/o per espressa fabbricazione:

- Tubo senza saldatura in acciaio al carbonio, inossidabile, legato.
- Tubo saldato
- Flange
- Raccordiera trafilata
- Raccordiera forgiata
- Guarnizioni
- Tiranteria
- Valvole
- Particolari speciali e/o a disegno



## CARBON STEEL PIPES

### Seamless

- According to API 5L grade B, N.D. 1/8" to 24", thicknesses according to API specifications.
- According to API 5L grade B, galvanised, threaded, coupled, ANSI B. 1.20.1, NPT N.D. 1/2" to 4" (threaded & coupled on request).
- According to A106 grade B, N.D. 1/4" to 24", thicknesses according to ANSI B 36-10.
- According to ASTM A53 grade B on request.
- According to API 5LX42 and X52 on request.
- Heat exchanger tubes according to ASTM A 179- ASTM A 450.

### Longitudinally welded

- According to API 5L grade B, N.D. 6" to 48" standard thicknesses.
- According to API 5LX42 to X70 on request.

### Spirally welded

- According to API 5LS grade B from X42 to X65 on request.

## LOW TEMPERATURE PIPES

### Seamless

- According to ASTM A333 grade 6° N.D. 1/4" o 24", with impact test at -46°C.; other grades on request.

### Welded

- According to Client enquiry.

## ALLOY STEEL PIPES FOR HIGH TEMPERATURE SERVICE

### Seamless

- According to ASTM A335 grade P1, P5, P9, P11, P22, P91.

### Welded

- According to Client enquiry.



## STAINLESS STEEL PIPES

### Seamless

- According to ASTM A 213, ASTM A 312, ASTM A 271 - DIN, ISO, AFNOR - and/or to Client enquiry.

### Welded

- According to ASTM A 312, ASTM A 358, ASTM A 409; DIN, ISO, AFNOR and/or to Client enquiry.

### Pipes for heat exchangers

- According to ASTM A 273, ASTM A 249, ASTM A 269.

### Pipes for instrumentation

- All grades of special stainless steel, anticorrosive steel, (nickel, copper, non ferrous metals).

## BUTT WELDING FITTINGS

### Carbon steel

- According to ASTM A 234 WPB
- Elbows 1D -45° -90° 180°
- Elbows 1,5D -45° -90° 180°
- Elbows 2D 90° -180°
- Elbows 3D 45° -90°
- Elbows 5D 45° -90°
- Concentric and eccentric reducers
- Caps
- Equal and reducing tees

### Alloy steel

- According to ASTM A 234 grades WP11, WP22 and WP5 in the same range of sizes and wall thicknesses.

### Low temperature steels

- According to ASTM A 420 grades WPL 6 and WPL 3.

### Stainless steel

- According to ASTM A 403, WP304, 304L, WP321, WP316, 316L, other grades on request.



## Summary of the main ASTM standards generally used in the petroleum industries

A	53	Pipe, steel, black and hot-dipped, zinc coated welded and seamless
A	105	Forgings, carbon steel, for piping components
A	106	Seamless carbon steel pipe for high temperatures service
A	179	Seamless cold-drawn low-carbon steel heat-exchanger and condenser tubes
A	181	Forgings, carbon steel, for general purpose piping
A	182	Forged or rolled alloy-steel pipe flanges, forged fittings, and valves and similar parts for high temperature service
A	193	Alloy- steel and stainless steel bolting materials for high temperature service
A	194	Carbon and alloy steel nuts for bolts for high pressure and high temperature service
A	203	Pressure vessel plates, nickel-alloy steel
A	204	Pressure vessel plates, molybdene-alloy steel
A	213	Seamless ferritic and austenitic alloy steel boiler, superheater, and heat exchange tubes
A	216	Carbon steel castings suitable for fusion welding for high temperature service
A	234	Piping fittings of wrought carbon steel and alloy steel for moderate and elevated temperatures
A	240	Heat-resisting chromium-nickel stainless steel plate, sheet and strip for fusion-welded unfired pressure vessels
A	249	Welded austenitic steel boiler, superheater, heat-exchanger and condenser tubes
A	269	Seamless and welded austenitic stainless steel tubing for general service
A	271	Seamless austenitic chromium-nickel steel still tubes for refinery service
A	283	Low and intermediate tensile strengt carbon steel plates shapes and bars
A	285	Pressure vessel plates, carbon steel, low and intermediate-tensile strength
A	312	Seamless and welded austenitic stainless steel pipe
A	320	Alloy steel bolting materials for low temperature service
A	333	Seamless and welded steel pipe for low temperature service
A	334	Seamless and welded carbon and alloy steel tubes for low temperature service
A	335	Seamless ferritic alloy steel pipe for high temperature service
A	350	Forgings carbon and low alloy steel requiring notch roughness testing for piping components
A	387	Pressure vessel plates alloy steel chromium-molybdenum
A	403	Wrought austenitic stainless piping fittings
A	409	Welded large diameter austenitic steel pipe for corrosive or high temperature service
A	420	Piping fittings of wrought carbon steel and alloy steel for low temperature service
A	515	Pressure vessels plates carbon steel for intermediate and higher-temperature service
A	516	Pressure vessel plates carbon steel for moderate and lower-plates service
A	537	Pressure vessel plates, heat-treated, carbon-manganese-silicon steel



As confirmation that our management system has for some time been disciplined by a most stringent quality control programme as prescribed by ISO 9001 requirements, we are pleased to hereby announce that TUV certification body has tested and certified our quality system to UNI EN ISO 9001:2008

## FORGED FITTINGS: THREADED OR SOCKET WELDING

### Carbon steel according to ASTM A 105

- Elbows 45° - 90°
- Equal and reducing tees, crosses
- Reducers
- Caps and plugs; hexagonal nipples
- Couplings, half couplings
- Unions
- Classes 3000 - 6000 and 9000

### Alloy steels

- Same range and classes as above in ASTM A 182, ASTM A 335 - ASTM A 234, grade 1, 5, 9, 11, 22

### Stainless steel

- Same range and classes as above in ASTM A 182, ASTM A 312 - ASTM A 403, grade 304 - 304L, 321, 316 - 316L.

## FLANGES

### According to American standards

- ANSI B16.5, welding neck, slip on, socket, threaded, lap joint and blind, drip ring
- Classes 150-300-400-600-900-1500 and 2500.
- Flanges faces may be raised, tongue and groove, RTJ, all sorts of steel

### Carbon steel

- According to ASTM A 105

### Alloy steel

- According to ASTM A 182 F1, F5, F9, F11, F22

### Low temperature

- According to ASTM A 350 LF2 and other grades

### Stainless steel

- According to ASTM A182 F.304, F.304L, F.316, F.316L, F.321

### On request

- Orifice flanges according to ANSI B 16.36
- Large diameters flanges (N.D. > 24)
- According to MSS-SP44, API 605, BS 3293 or AWWA C 207
- According to API 6 B class 5000 - 10.000 - 15.000

## STUD BOLTS & NUTS

### High / low temperature

According to ASTM - UNI - DIN fully threaded, in:

- ASTM A 193 B7 & ASTM A 194 / 2H
- ASTM A 193 B7M & ASTM A 194 / 2HM
- ASTM A 193 B8 & ASTM A 194 / Gr.8
- ASTM A 193 B8M & ASTM A 194 / 8M
- ASTM A 193 B8T & ASTM A 194 / Gr.8T
- ASTM A 193 B16 & ASTM A 194 / Gr.4
- ASTM A 193 B6 & ASTM A 194 / Gr.6
- ASTM A 320 L7 & ASTM A 194 / Gr.4 - Gr.7
- ASTM A 453 Gr.660 - Inox 17 - 4 PH
- Monel, Hastelloy, Inconel, Incoloy, Duplex

### On request

- Zinc plated, hot deep zinc, coated by teflon

## GASKETS

### Execution

- Stainless steel, inconel, monel, saf
- Ring joint - ASME B 16.20 / API 6 std 6.A
- Spiral wound - ANSI B 16.5 / API std 605
- Asbestos free - ASME B 16.21
- Double jacketed - ASME B 16.21
- Rubber gaskets

### On request

- Special execution and / or according to drawings

## VALVES

### Execution

- Carbon, alloy & stainless steel, bronze, ductile iron
- Gate, globe, check, ball, needle, butterfly, plug valves

## MISCELLANEOUS

Stub ends, filters, manifolds, Y stainers, compression fittings, hose connection, stream traps, sight glasses, level gauges, malleable cast iron fittings.

