



**SOLITAIRE
OVERSEAS**

 **ISO**
9001:2015
CERTIFIED

 **PED**
PED
CERTIFIED

Manufacturer of premium industrial fittings and flanges

FITTINGS & FLANGES

Complete Flow & Connection Solutions

*Manufacturing Relationships.
Distributing Quality.*



PREMIUM
QUALITY



INTERNATIONAL
STANDARDS



PRECISION
ENGINEERING



GLOBAL
SUPPLY

ENGINEERED FOR PERFORMANCE

BUILT FOR RELIABILITY

FITTINGS • FLANGES • OLETS • HIGH PRESSURE FITTINGS



www.solitaire-overseas.com



**SOLITAIRE
OVERSEAS**

ISO
9001:2015
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WHY SOLITAIRE OVERSEAS

Trusted Engineering. Proven Quality. Global Commitment.



MANUFACTURING EXCELLENCE

State-of-the-art manufacturing facilities with advanced equipment and skilled workmanship ensure precision-engineered fittings and flanges of the highest quality.



METALLURGICAL TESTING

Comprehensive material analysis and metallurgical testing ensure superior performance, durability, and compliance with international standards.



GLOBAL SUPPLY

A robust global network enables us to supply premium products worldwide, ensuring timely delivery and reliable service to every corner of the world.



TECHNICAL EXPERTISE

Our experienced engineering team provides expert support for product selection, technical specifications, and customized solutions for critical applications.



QUALITY ASSURANCE

Strict quality control at every stage of production backed by globally recognized certifications and inspection procedures to deliver flawless products.



ENGINEERING RELIABILITY

Our fittings and flanges are engineered for high performance in demanding environments, ensuring long-term reliability and operational safety.



**PREMIUM
QUALITY**



**INTERNATIONAL
STANDARDS**



**CUSTOMER
FOCUSED**



**GLOBAL
PRESENCE**

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*Manufacturing Relationships.
Distributing Quality.*

PRODUCT CATEGORY:

BUTTWELD
FITTINGS

PRODUCT OVERVIEW &
SYSTEM PERFORMANCE BENEFITS

We manufacture the finest quality butt-weld pipe fittings engineered to meet diverse dimensional, tolerance, and material specifications. Our butt-weld fittings are highly durable, designed to provide a continuous, leak-proof transition in piping networks, minimizing pressure drops and turbulence while maximizing fluid system performance.

TECHNICAL SPECIFICATIONS

- **Size Range:** 1/2" NB to 60" NB
- **Schedules/Thickness:** SCH 10s, 20, 30, 40s, STD, 60, 80s, 80, XS, 100, 120, 140, 160, to XXS
- **Sour Gas Compliance:** Available with NACE MR0175 / ISO 15156 compliance for sour environments.
- **Manufacturing Types:** Seamless / Welded / Fabricated

STANDARD FORMS

- **Elbows:** Long Radius (LR) & Short Radius (SR) available in 45-degree, 90-degree, and 180-degree configurations.
- **Tees:** Equal Tees, Unequal/Reducing Tees, and Barred Tees.
- **Reducers:** Concentric Reducers and Eccentric Reducers.
- **Caps & Crosses:** Equal Crosses, Reducing Crosses, and End Caps.
- **Stub Ends:** Long Stub Ends & Short Stub Ends (Lap Joint Ends).
- **Nipples:** Swage Nipples & Barrel Nipples.

MATERIAL OF CONSTRUCTION (MOC)
& TESTING CERTIFICATION

	Stainless Steel	ASTM / ASME A403 WP 304, 304L, 304H, 316, 316L, 316H, 317, 317L, 321, 321H, 347, 347H
	Carbon Steel	ASTM / ASME A234 WPB, WPC / A420 WPL6 (Low Temperature)
	Alloy Steel	ASTM / ASME A234 WP5, WP9, WP11, WP12, WP22, WP91
	Duplex & Super Duplex Grade	S32205/S32750
	High Nickel Alloys	Monel 400/K500, Inconel 600/625/825, Hastelloy C22/C276, Titanium, Nickel 200/201

TESTING DOCUMENTATION

Manufacturer Test Certificate issued
strictly in accordance with
EN 10204 / 3.1 standards



TYPICAL BUTTWELD FITTINGS RANGE



ELBOW 90° LR



ELBOW 45° LR



ELBOW 180° LR



TEE (EQUAL)



TEE (REDUCING)



CROSS (EQUAL)



REDUCER (CONCENTRIC)



REDUCER (ECCENTRIC)



END CAP



STUB END (LONG)



STUB END (SHORT)



NIPPLE (SWAGE)



NIPPLE (BARREL)



LEAK-PROOF
PERFORMANCE



MINIMIZED PRESSURE
DROP



HIGH DURABILITY
& RELIABILITY



ENHANCED SYSTEM
EFFICIENCY



**SOLITAIRE
OVERSEAS**



CORPORATE PROFILE



MANUFACTURER



SUPPLIER



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*Manufacturing Relationships.
Distributing Quality.*

ENGINEERING CONNECTIONS. DELIVERING EXCELLENCE.

Solitaire Overseas is a globally recognized manufacturer of premium industrial fittings and flanges.

We deliver high-quality flow and connection solutions that meet the most demanding industry standards.

Our commitment to precision engineering, metallurgical integrity, and consistent quality has earned the trust of clients worldwide.

With advanced manufacturing capabilities and a customer-centric approach, we provide reliable products for critical applications across global industries.



INDUSTRIES WE SERVE



OIL & GAS



OFFSHORE



PETROCHEMICAL



REFINING



POWER



CHEMICAL



PREMIUM QUALITY. GLOBAL STANDARDS.

FORGED FLANGES

BUILT STRONG. TRUSTED GLOBALLY.

Solitaire Overseas produces and exports premium forged and plate flanges across a massive spectrum of diameters, pressure ratings, and faces.

Manufactured from high-quality steel forgings, our flanges are precision machined, structurally robust, and dimensionally accurate, in full compliance with ASME B16.5, ASME B16.47 Series A & B, and EN 1092-1 standards.



DESIGN STANDARDS



ASME B16.5

Pipe Flanges and Flanged Fittings

ASME B16.47
SERIES A & B

Large Diameter Flanges



EN 1092-1

Steel Flanges and Their Joints

PRESSURE RATINGS



CLASS
150



CLASS
300



CLASS
600



CLASS
900



CLASS
1500



CLASS
2500

FLANGE FACINGS



RAISED FACE
(RF)



FLAT FACE
(FF)



RING TYPE JOINT
(RTJ)

FLANGE TYPES



WELD NECK
FLANGES
(WNRF)



SOCKET WELD
FLANGES
(SWRF)



SLIP-ON
FLANGES
(SORF)



BLIND FLANGES
(BLRF)



LAP JOINT
FLANGES

ENGINEERING FLANGE TYPES



SCREWED /
THREADED
FLANGES



LONG & WELD
NECK
FLANGES
(LWNR)



SPECTACLE BLINDS,
SPACER RINGS &
ORIFICE FLANGES

MATERIAL GRADES & FORGING SPECIFICATIONS



CARBON STEEL
FORGINGS

- ASTM A105
- A350 LF2



ALLOY STEEL
FORGINGS

- ASTM A182 F5
- F9
- F11
- F12
- F22
- F91



STAINLESS STEEL
FORGINGS

- ASTM A182 F304
- 304L
- 316
- 316L
- 321
- 347



SPECIAL ALLOYS

- DUPLEX & SUPER DUPLEX GRADE - S32205/S32750
- MONEL
- INCONEL
- HASTELLOY
- TITANIUM



PREMIUM QUALITY
ASSURANCE

All flanges are manufactured using high-quality forgings, precision machined, and thoroughly inspected to ensure superior performance in the most demanding applications.



WIDE RANGE
From 1/2" to
48" & above



GLOBAL
STANDARDS
ASME, EN & more



PREMIUM
QUALITY
Tested. Trusted.
Delivered.



EXPORT
EXCELLENCE
Serving industries
worldwide



CUSTOM
SOLUTIONS
Tailored to your
project needs

SOLITAIRE OVERSEAS – ENGINEERED FOR STRENGTH. DELIVERED WITH TRUST.

FORGED HIGH-PRESSURE FITTINGS

SOCKET WELD & THREADED HIGH-PRESSURE RANGE

Engineered to withstand extreme pressures and thermal loads, our high-pressure forged socket weld and threaded fittings meet ASME B16.11 benchmarks.



SIZE RANGE

8 NB
to
100 NB



CONNECTIONS

Socket Weld (SW)
&
Threaded
(NPT / BSP)



FORMS AVAILABLE

Forged Elbows (90°/45°),
Tees, Crosses, Couplings
(Full/Half), Caps, Plugs,
Bushings, and Unions.



BUILT TO PERFORM. BUILT TO LAST.

Designed for reliability in
critical high-pressure
piping systems across
industries.

PRESSURE CLASSES

Available strictly in heavy-duty



**CLASS
3000**



**CLASS
6000**



**CLASS
9000**



NACE MR0175 / ISO 15156 & NACE MR0103 COMPLIANT

All configurations are fully heat-treated and manufactured to comply with NACE MR0175 / ISO 15156 and NACE MR0103 specifications.

This ensures optimal sulfide stress cracking (SSC) resistance in harsh, corrosive upstream oil and gas applications.



ASME B16.11
COMPLIANT



EXTREME PRESSURE
RATING



HIGH STRENGTH
FORGED STEEL



SOUR GAS
SERVICE READY



TESTED. TRUSTED.
DELIVERED.

BRANCH CONNECTIONS (OLETS)

TECHNICAL INTEGRITY & STRESS CONCENTRATION OUTLETS

Solitaire Overseas offers a specialized array of precision-machined branch outlets capable of outstanding pressure performance. Known for high rust resistance and dimensional stability, our Olets reduce header stress concentrations while providing smooth volumetric flow.



STANDARD OLETS



WELDOLET

Reliable, all-purpose outlet for general piping applications.



SOCKOLET

Excellent for small-bore branch connections.



THREADOLET

Designed for threaded branch connections.

HIGH-PERFORMANCE OLETS



LATROLET

Long forged outlet for reinforced branch connections and critical applications.



ELBOLET

Ideal for 90° branch connections with smooth flow and reduced turbulence.



SWEEPOLET

Provides gradual flow transition and minimizes stress concentration.



NIPOLET

High-integrity outlets for extreme pressure and critical service conditions.



INSERT-TYPE WELDOLET

Welded with insert for enhanced reinforcement and pressure integrity.

MATERIAL MATRIX



CARBON STEEL OLETS ASTM / ASME

- A105
- A350 LF2



ALLOY STEEL OLETS ASTM / ASME

- A182 GR F5
- A182 GR F9
- A182 GR F11
- A182 GR F12
- A182 GR F22
- A182 GR F91



STAINLESS STEEL OLETS ASTM / ASME

- SA182 F304
- SA182 304L
- SA182 304H
- SA182 316
- SA182 316L
- SA182 316LN
- SA182 317L
- SA182 321
- SA182 321H
- SA182 347
- SA182 347H



Precision
Machined



High Pressure
Performance



Reduces Stress
Concentration



High Rust
Resistance



Dimensional
Stability



Manufactured to
Global Standards

ENGINEERED OUTLETS. OPTIMIZED FLOW. MAXIMUM RELIABILITY.

CUSTOM-ENGINEERED FLOW SOLUTIONS & SERVICES

ENGINEERED. TESTED. TRUSTED.
DELIVERED FOR PERFORMANCE.



HOT INDUCTION BENDS (2D TO 20D RADIUS PROPERTIES)

Utilizing an advanced induction bending system, we accurately form heavy-walled pipe structures from 2D to 20D bend radius. This process limits wall thinning on the outer arc while keeping absolute cross-sectional ovality minimal.



SIZES
2" NB to 34" NB



WALL THICKNESS
Custom schedules matching line requirements up to XXS.



MATERIAL OF CONSTRUCTION
Carbon Steel, Stainless Steel, Duplex, Monel, Inconel, and Hastelloy.



ADVANTAGES

- Minimal wall thinning on outer arc
- Minimal cross-sectional ovality
- Excellent dimensional accuracy

SPECIALIZED PIPING TEES & PRE-FABRICATED SPOOLS

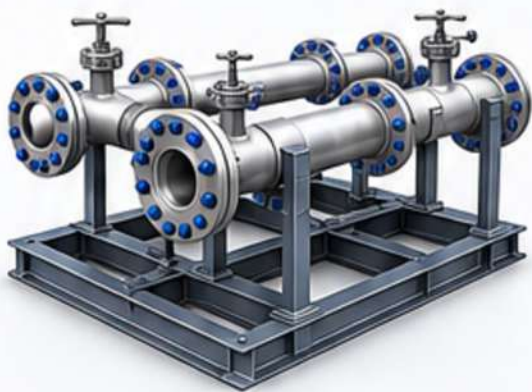
SPECIAL DESIGNED TEES

Flow Tees, Split Tees, and Lateral Tees custom-engineered with oversized outlets or slotted guide bars to ensure optimal pipeline flow management during pigging or high-velocity distribution operations.



CUSTOM PRE-FABRICATED PIPE SPOOLS

Fully assembled pre-fabricated piping modules (Spool Pieces) utilizing our matching range of fittings and flanges. Welded under rigorous tracking and non-destructive testing (NDT), these spools are delivered ready for modular field hookup.



VALUE-ADDED SERVICES & QUALITY SYSTEMS



SURFACE FINISHING

- Hot-Dip Galvanizing
- High-Build Epoxy Coatings
- Anti-Corrosive Primer Painting



HIGH-PRECISION CNC MACHINING

- High-precision CNC turning
- Custom face serrations (smooth or stock finish)
- Specific bevel profile edge preparations for effortless weld fit-ups



TESTING PROTOCOL

- Visual Inspection (VT)
- Ultrasonic Testing (UT)
- Radiography Testing (RT)
- Positive Material Identification (PMI)
- Magnetic Particle Inspection (MPI)



VT



UT



RT



PMI



MPI



EN 10204 / 3.1 CERTIFICATION

All materials are strictly shipped alongside certified EN 10204 / 3.1. Since 2004, only EN 10204 3.1 is valid. Manufacturer Test Certificates to ensure complete trace-and-track transparency.



ENGINEERED
FOR PERFORMANCE



PRECISION
MANUFACTURED



RIGOROUSLY TESTED.
GLOBALLY TRUSTED.



DELIVERED READY.
BUILT TO LAST.

CUSTOM ENGINEERING. SUPERIOR QUALITY. MAXIMUM FLOW EFFICIENCY.