



GLOBAL STANDARDS
QUALITY DOCUMENTATION

USA PIPING SOLUTION LLC

Supplier of premium industrial fittings and flanges

FITTINGS & FLANGES

Complete Flow & Connection Solutions



Strong Mill Relationships.
Reliable USA Supply.



Premium
Quality



International
Standards



Precision
Sourcing



Domestic &
Global Supply

Engineered for Performance
Supplied for Reliability

Fittings • Flanges • Olets • High Pressure Fittings



www.usapipingsolution.com



USA PIPING SOLUTION LLC
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WHY USA PIPING SOLUTION

Trusted Supply. Proven Quality. USA Commitment.



Reliable Supply Network

Our strong supply network and trusted mill relationships help us source quality fittings and flanges for demanding industrial requirements across the USA and global markets.



Material Testing Support

We supply products backed by material verification, test certificates, and inspection documentation to ensure performance, durability, and compliance with project requirements.



USA-Based Supply Advantage

As a USA-based supplier, we support faster communication, dependable coordination, and reliable delivery for urgent industrial and project-based requirements.



Technical Support

Our team assists customers with product selection, material grades, standards, pressure ratings, dimensions, and application-based sourcing requirements.



Quality Assurance

Every order is supported with proper quality checks, documentation review, packing care, and traceability to ensure customers receive reliable and project-ready products.



Engineering Reliability

Our fittings and flanges are sourced for high performance in demanding piping systems, helping customers maintain operational safety, strength, and long-term reliability.



Premium Quality



International Standards



Customer Focused



USA Supply Support



Strong Mill Relationships.
Reliable USA Supply.

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USA PIPING SOLUTION LLC



GLOBAL STANDARDS



QUALITY DOCUMENTATION

CORPORATE PROFILE

Industrial Connections. Delivering Reliability.

USA Piping Solution LLC is a trusted USA-based supplier of premium industrial fittings, flanges, pipes, tubes, and piping components.

We deliver quality flow and connection solutions that meet demanding industrial standards across oil & gas, petrochemical, power, refining, chemical, offshore, and general engineering sectors.

Our commitment to reliable sourcing, technical support, documentation, and consistent service helps customers complete critical piping requirements with confidence.

With strong supplier relationships, domestic coordination, and a customer-focused approach, we provide dependable products for urgent and project-based industrial applications.



USA-Based
Supplier



Global
Sourcing
Partner



Strong Mill Relationships.
Reliable USA Supply.

Industries We Serve



Oil & Gas



Offshore



Petrochemical



Refining



Power



Chemical

Fittings • Flanges • Olets • High Pressure Fittings



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PRODUCT CATEGORY: BUTTWELD FITTINGS

Product Overview & System Performance Benefits

We supply high-quality butt-weld pipe fittings engineered to meet diverse dimensional, tolerance, and material specifications. Our butt-weld fittings are durable and designed to provide a continuous, leak-resistant transition in piping networks, helping minimize pressure drops and turbulence while improving fluid system performance.



STANDARD FORMS

-  **Elbows:** Long Radius LR & Short Radius SR available in 45°, 90°, and 180° 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, including Lap Joint Ends.
-  **Nipples:** Swage Nipples & Barrel Nipples.

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 service environments.
	Manufacturing Types	Seamless / Welded / Fabricated

MATERIALS

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

PRODUCT 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		



TESTING DOCUMENTATION:

Material Test Certificates can be supplied in accordance with EN 10204 / 3.1 standards as per project requirements.



Leak-Resistant
Performance



Minimized
Pressure Drop



High Durability &
Reliability



Enhanced
System Efficiency

Engineered for Performance. Supplied for Excellence.



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FORGED HIGH-PRESSURE FITTINGS

Socket Weld & Threaded High-Pressure Range

Built for demanding pressure and thermal conditions, our high-pressure forged socket weld and threaded fittings are supplied in accordance with ASME B16.11 requirements.



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 industrial applications.

Pressure Classes

Available in heavy-duty pressure ratings

CLASS
3000

CLASS
6000

CLASS
9000



NACE MR0175 / ISO 15156 & NACE MR0103 COMPLIANT

High-pressure fittings can be supplied in configurations suitable for NACE MR0175 / ISO 15156 and NACE MR0103 requirements.

This supports 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



Checked. Trusted.
Delivered.

BRANCH CONNECTIONS OLETS

Technical Integrity & Stress Concentration Outlets

USA Piping Solution LLC supplies a specialized range of precision-machined branch outlet fittings designed for reliable pressure performance and branch connection integrity. Known for dimensional stability and strength, Olets help reduce header stress concentrations while supporting smooth flow in piping systems.



Weldolet



Sockolet



Thredolet



Latrolet



Elbolet



Sweepolet



Nipolet



Insert-Type Weldolet

STANDARD OLETS

- ✓ **Weldolet**
Reliable, all-purpose outlet for general piping applications.
- ✓ **Sockolet**
Excellent for small-bore branch connections.
- ✓ **Thredolet**
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 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



Dimensional
Stability



Application-Based
Sourcing



Supplied to
Global Standards

Engineered Outlets. Optimized Flow. Maximum Reliability.



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FORGED FLANGES

Built Strong. Supplied Reliably.

USA Piping Solution LLC supplies premium forged and plate flanges across a wide range of diameters, pressure ratings, material grades, and flange faces.

Sourced from quality-approved forging and machining partners, our flanges are structurally robust, dimensionally accurate, and supplied as per leading standards such as ASME B16.5, ASME B16.47 Series A & B, and EN 1092-1.



1) 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

2) PRESSURE RATINGS

Class 150

Class 300

Class 600

Class 900

Class 1500

Class 2500

3) FLANGE FACINGS



Raised Face
RF



Flat Face
FF



Ring Type Joint
RTJ

4) FLANGE TYPES



Weld Neck
Flanges
WNRF



Socket Weld
Flanges
SWRF



Slip-On
Flanges
SORF



Blind
Flanges
BLRF



Lap Joint
Flanges

5) ENGINEERING FLANGE TYPES



Screwed /
Threaded Flanges



Long Weld Neck
Flanges LWNRF



Spectacle Blinds,
Spacer Rings &
Orifice Flanges

6) MATERIAL GRADES



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

7) PREMIUM QUALITY ASSURANCE



All flanges are sourced from reliable production partners, precision machined, dimensionally checked, and supplied with proper documentation to support demanding industrial applications.



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



GLOBAL STANDARDS
ASME, EN & more



PREMIUM QUALITY
Checked. Trusted.
Delivered.



USA SUPPLY
SUPPORT
Serving industrial
projects nationwide



CUSTOM SOLUTIONS
Tailored to your
project needs

CUSTOM-ENGINEERED FLOW SOLUTIONS & SERVICES

Sourced. Checked. Trusted. Delivered for Performance.



1 HOT INDUCTION BENDS 2D to 20D Radius Properties

Through reliable production partners, we supply hot induction bends formed from heavy-wall pipe structures from 2D to 20D bend radius. The bending process helps limit wall thinning on the outer arc while maintaining controlled ovality and dimensional accuracy.



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
- Controlled cross-sectional ovality
- Excellent dimensional accuracy

2 SPECIALIZED PIPING TEES & PRE-FABRICATED SPOOLS

Special Designed Tees

Flow Tees, Split Tees, and Lateral Tees can be supplied for custom-engineered applications with oversized outlets or slotted guide bars to support pipeline flow management during pigging or high-velocity distribution operations.



Custom Pre-Fabricated Pipe Spools

Pre-fabricated piping modules, also known as spool pieces, can be supplied using matched fittings, flanges, pipes, and related components.

Welded and inspected under required quality protocols, these spools can be delivered ready for modular field hookup as per project requirements.



3 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 proper 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

Materials can be supplied with certified EN 10204 / 3.1 documentation as required. Manufacturer Test Certificates support traceability, quality verification, and project documentation transparency.



Engineered for
Performance



Precision
Sourced



Rigorously Checked.
Globally Trusted.



Delivered Ready.
Built to Last.



LET'S DISCUSS YOUR REQUIREMENT

Share your product type, material grade, size, schedule, pressure class, quantity and delivery location with our team.

Requirement Details



Product Type



Material Grade



Size & Schedule



Pressure Class



Delivery Location



**USA-Based
Supply Support**

Your USA-based sourcing partner for industrial fittings, flanges and flow components.



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