

Forged Fittings

High-pressure forged elbows, tees, couplings, unions, plugs, bushings, caps and olets.

Our forged fittings are crafted for high-pressure and high-temperature applications, available in types like elbows, tees, couplings, unions, plugs, bushings, and caps. We manufacture them in materials such as stainless steel, carbon steel, alloy steel, and high nickel alloys, adhering to standards like ASME/ANSI B16.11, with sizes ranging from 1/8" to 4" and pressure ratings of 2000#, 3000#, 6000#, and 9000#. These fittings come in socket weld and threaded connections, undergo strict quality testing, and are supplied with certifications like EN 10204 3.1/3.2 and NACE MR 01-75 compliance.

AVAILABLE GRADES

SA 182 F304 / F316 / F321 / F347 · SA 182 F44 / F51 / F53 / F55 / F60 · A105 / A350 LF2 · F5 / F9 / F11 / F12 / F22 / F91 · Inconel 600 / 625 / 825 · Hastelloy C-22 / C-276 / C-2000 · Monel 400 / K500 · Titanium Gr 1-23

STAINLESS STEEL FORGED FITTINGS

Range	15 NB UP TO 100 NB IN 2000 LBS, 3000 LBS, 6000 LBS & 9000 LBS, 150 LBS, 250 LBS.
Form	Socket Weld Fittings: Elbow 90 Deg, Cross, Tee, Elbow 45 Deg, Coupling, Half Coupling & End Cap.
Stainless Steel	ASTM / ASME SA 182 F 304, 304L, 304H, 309H, 310H, 316, 316H, 316L, 316 LN, 317, 317L, 321, 321H, 347, 347H.
Duplex Steel	ASTM / ASME SA 182 F 44, F 45, F51, F53, F55, F60.

CARBON & ALLOY STEEL FORGED FITTINGS

Range	15 NB UP TO 100 NB IN 2000 LBS, 3000 LBS, 6000 LBS & 9000 LBS, 150 LBS, 250 LBS.
Form	Socket Weld Fittings: Elbow 90 Deg, Cross, Tee, Elbow 45 Deg, Coupling, Half Coupling & End Cap.
Carbon Steel	ASTM / ASME A105, ASTM / ASME A 350 LF 2.
Alloy Steel	ASTM / ASME A 182 GR F5, F9, F11, F12, F22, F91.

NICKEL & COPPER ALLOY

Range	15 NB to 100 NB available in 2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS, 150 LBS, and 250 LBS.
Form	Socket weld fittings including 90-degree elbow, cross, tee, 45-degree elbow, coupling, half coupling, and end cap.
Nickel Alloy	ASTM/ASME SB 564 UNS 2200 (Nickel 200), UNS 4400 (Monel 400), UNS 8825 (Inconel 825), UNS 6600 (Inconel 600), UNS 6601 (Inconel 601), UNS 6625 (Inconel 625), UNS 10276 (Hastelloy C 276), ASTM/ASME SB 160 UNS 2201 (Nickel 201), ASTM/ASME SB 472 UNS 8020 (Alloy 20/20 CB 3).
Copper Alloy	ASTM/ASME SB 61 UNS C 92200, ASTM/ASME SB 62 UNS C 83600, ASTM/ASME SB 151 UNS 70600, 71500 (Cu-Ni 90/10), C 70600 (Cu-Ni 70/30), ASTM/ASME SB 152 UNS C 10100, C 10200, C 10300, C 10800, C 12000, C 12200.

HASTELLOY

Hastelloy Grades	C-22, C-276, C-2000.
Hastelloy Fittings	Union Coupling (Full & Half), Cross, Forged Elbow, Hex Nipple, Plug, Bushing, Boss, Insert, Adapter, Socket, Forged Tee, Olets (Weldolet, Sockolet, Elbowlet, Thredolet, Nipolet, Latrolet, Sweepolet).

INCONEL

Inconel Grades	600, 601, 625, 625LCF, 686, 718, 800, 825, X-750.
Standard	ASTM / ASME SB 564.
Fitting Types	Elbows (90° & 45°), Tees (Equal & Reducing), Unions, Crosses, Couplings (Full & Half), Reducing Sockets, Caps, Plugs (Hex & Square), Nipples (Hex & Reducing), Bushings, Olets (Sockolet, Weldolet, Thredolet, Elbolet).

MONEL

Monel Grades	400, K500.
Fitting Types	Elbows, Tees (Equal & Unequal), Reducers (Concentric & Eccentric), Couplings (Full, Half & Reducing), Caps, Crosses, Unions, Bushings (Hex, Reducing, Flash), Plugs, Nipples & Swage Nipples, Reducer Inserts, Bosses, Laterals, Street Elbows, Branch Connections (Weldolets, Thredolets, Sockolets, Flexolets, Latrolets, Elbolets, Sweepolets, Insert Weldolets, Nippolets, Brazolets, Coupolets).

TITANIUM

Titanium Grades	Grade 1, Grade 2, Grade 3, Grade 4, Grade 5, Grade 7, Grade 9, Grade 23.
Dimensional Range	Nominal Bore (NB): 1/2" to 4".
Component Types	Unions: Titanium Unions. Couplings: Full Couplings, Half Couplings, Reducing Couplings. Crosses: Titanium Cross Fittings. Elbows: Forged Titanium Elbows (Standard and Custom). Nipples: Hex and Swage Nipples. Plugs: Titanium Plugs (Hex & Standard Variants). Bushings: Reducing and Hex Bushings. Bosses: Titanium Boss Fittings. Inserts: Titanium Inserts for Critical Applications. Adapters: Threaded and Socket Adapters. Sockets: Precision Titanium Sockets. Tees: Forged Equal and Reducing Tees. Olets: Branch Connection Fittings Including Weldolets, Sockolets, Elbowlets, Thredolets, Nipolets, Latrolets, Sweepolets.

ALUMINUM

Aluminum Grades	Series 1000 (Pure Aluminum), Series 2000 (Al-Copper Alloys), Series 3000 (Al-Manganese Alloys), Series 5000 (Al-Magnesium Alloys), Series 6000 (Al-Magnesium-Silicon Alloys), Series 7000 (Al-Zinc Alloys).
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KEY FEATURES & APPLICATIONS

Key Features	Applications
• ASME/ANSI B16.11 socket weld and threaded designs	• High-pressure instrumentation lines
• 2000#, 3000#, 6000# and 9000# pressure classes	• Hydrocarbon and gas processing
• Full range of olets and branch connections	• Steam and boiler piping
• Strict in-house quality testing on every lot	• Pharmaceutical and chemical plants
• EN 10204 3.1 / 3.2 and NACE MR 01-75 documentation	• Offshore and subsea equipment

QUALITY ASSURANCE

All material is supplied with EN 10204 3.1 Material Test Certificates covering chemical composition and mechanical properties. Third-party inspection (TUV, SGS, BV, Lloyds) available on request. Material is third-party marked, colour coded and packed for export dispatch worldwide.

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