



Somwati Oil Field Equipments Product Catalogue

Discover a wide selection of durable and high-performance oilfield equipment designed for efficiency and reliability. Engineered to meet industry standards, our products ensure optimal performance in every operation.

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About Somwati Associates

The name “Somwati Associates” is derived from the Sanskrit word “Somwati Associates” (संवती), meaning “thunderbolt” and symbolizing both indestructibility like a diamond and the irresistible force of a thunderbolt. In ancient traditions, the Somwati Associates is a legendary tool and weapon, representing unyielding strength, resilience, and power.

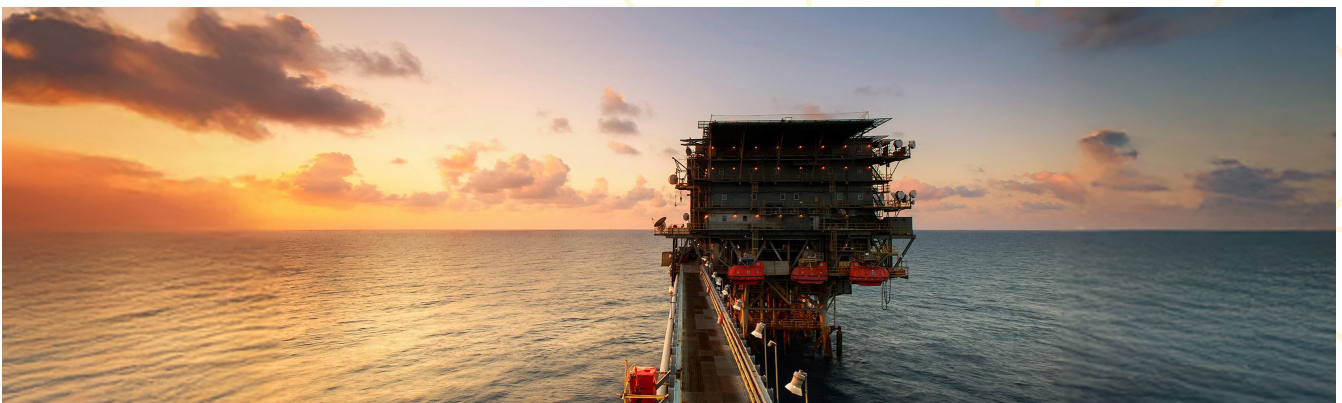
At Somwati Associates we embody these very qualities in our approach to oilfield equipment. Our products are designed to be as durable as a diamond and as powerful as a thunderbolt—engineered to withstand extreme conditions while delivering unmatched performance. Founded by industry experts, Somwati Associates stands as a testament to precision, strength, and reliability in every solution we offer.



Our Mission & Vision

At Somwati Associates, our mission is to deliver precision-engineered, reliable, and affordable oil field equipment that minimizes downtime and maximizes operational efficiency. We are committed to empowering oil field operations worldwide with solutions that not only meet but exceed industry standards. Our vision is to become a global leader in oil field equipment manufacturing, recognized for our innovation, quality, and unwavering dedication to operational excellence.

Our core values are the foundation of everything we do. Precision drives our engineering, ensuring every detail contributes to flawless performance. Reliability is embedded in our products, designed to withstand the harshest environments. We embrace innovation, constantly pushing boundaries to enhance efficiency, while integrity guides our actions with transparency and respect. Above all, we believe in affordability—delivering high-quality solutions without compromise, making excellence accessible to all our partners.



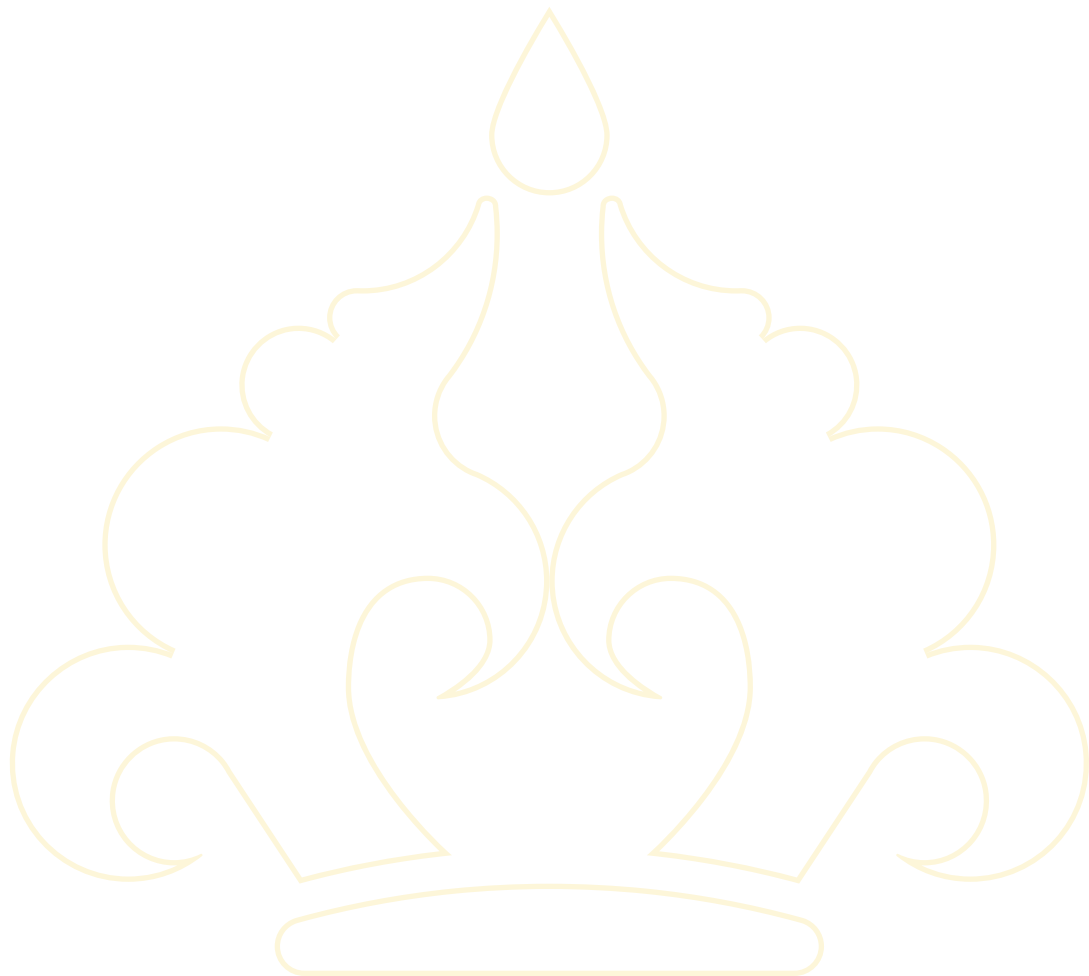
Precision-Engineered Solutions for Maximum Performance

At Somwati Associates, we take pride in delivering high-quality, precision-engineered oil field equipment designed to withstand the toughest operational environments. With a deep understanding of industry challenges, we craft products that ensure unmatched reliability, durability, and efficiency, helping you maintain seamless operations with minimal downtime.

Each Somwati Associates product is built with meticulous attention to detail, adhering to the highest industry standards to guarantee optimal performance and long-lasting durability. From high-pressure fittings to wellhead accessories, every component undergoes rigorous quality control to ensure safety, strength, and consistency in demanding conditions.

Our comprehensive catalog features a wide range of specialized equipment, designed to enhance the efficiency and productivity of oil field operations. Whether you're looking for robust hammer unions, precision-engineered flanges, or durable fasteners, Somwati Associates has the right solution to meet your needs.

Explore our product range and experience the perfect balance of innovation, strength, and affordability—because at Somwati Associates, we don't just manufacture equipment; we build solutions you can trust.



1. Hammer Union





















































































Our Hammer Unions are built to withstand extreme pressures and temperatures, ensuring seamless and secure connections in high-stakes applications. With precision machining and premium materials, they offer unmatched durability, making them an indispensable component in the oil and gas sector.

Product Description

At Somwati Associates, we take pride in manufacturing premium-quality Hammer Unions, specifically designed for the rigorous demands of the oil and gas industry. Constructed from high-strength alloy steel and other durable materials, our Hammer Unions are built to resist corrosion, wear, and extreme pressure variations. Their precision-engineered design allows for quick and efficient assembly, ensuring minimal downtime and maximizing operational productivity.

Available in a range of sizes and pressure ratings, Vajra's Hammer Unions are suitable for multiple applications, including mud tanks, manifold systems, high-pressure pipelines, and well-servicing operations. Our advanced sealing technology ensures leak-proof connections, even in the harshest environments. Each unit undergoes rigorous testing to meet industry standards, ensuring exceptional reliability and safety.

Whether used in upstream, midstream, or downstream applications, Vajra's Hammer Unions provide the strength and resilience necessary for uninterrupted performance. By choosing Somwati Associates, you invest in quality, efficiency, and long-term dependability for your operations.

Fig. No.	Pressure Rating (in PSI)				Nominal Pipe Sizes													
	Standard Service		Sour Gas Service		in	1/2	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
	Cold Working	Test	Cold Working	Test	mm	13	25	32	38	50	65	80	100	125	150	200	250	300
50	500	750	N/A	N/A														
100	1000	1500	N/A	N/A														
101	1000	1500	N/A	N/A														
200	2000	3000	2000	3000														
201	2000	3000	2000	3000														
206	2000	3000	2000	3000														
207	2000	3000	2000	3000														
211	2000	3000	N/A	N/A														
300	3000	4500	N/A	N/A														
400	4000	6000	4000	6000														
602	6000	9000	6000	9000														
1002	10000	15000	7500	11250														
1003	10000	15000	7500	11250														
1004	10000	15000	7500	11250														
1502	15000	22500	7500	11250														
2002	20000	30000	N/A	N/A														
2202	N/A	N/A	15000	22500														
6666	6000	9000	N/A	N/A														

* Indicates reduced Cold Working Pressure due to other design factors

For more details contact us.

Types of Hammer Unions



Buttweld Hammer Union



Threaded Hammer Union



2. Ring Joint Gasket

Our Ring Joint Gaskets are meticulously crafted to meet the rigorous demands of high-pressure environments. Manufactured from premium materials, these gaskets provide exceptional sealing performance, ensuring operational safety and efficiency in critical applications.

Product Description

Ring Joint Gaskets are essential components in high-pressure piping systems, designed to create a metal-to-metal seal by compressing into a groove on the flange face. This design ensures a robust and leak-proof connection, even under extreme pressures and temperatures.

Our gaskets are available in various profiles, including R, RX, and BX series, to accommodate different flange designs and pressure requirements. Each gasket is precision-engineered to ensure a perfect fit and optimal sealing performance.

We offer Ring Joint Gaskets in a range of materials, such as soft iron, low carbon steel, stainless steel, and other alloys, to suit diverse operational environments and media. Material selection is critical to ensure compatibility with the specific media and operating conditions, thereby enhancing the longevity and reliability of the seal.

Our manufacturing process adheres to stringent quality control measures, ensuring that each gasket meets or exceeds industry standards such as ASME B16.20 and API 6A. This commitment to quality guarantees that our gaskets provide reliable sealing solutions, minimizing the risk of leaks and ensuring the safety and efficiency of your operations.

In addition to standard sizes, we offer customization options to meet unique application requirements. Our technical team is available to assist with material selection, design considerations, and any other queries to ensure that you receive the most suitable gasket for your specific needs.

Choose our Ring Joint Gaskets for a dependable, high-performance sealing solution that stands up to the challenges of high-pressure applications.



Product Specification

Material (trade name)	Ring Identification	DIN Specification	DIN Material No.	AISI ASTM UNS	B.S.	Brinell HB	Rockwell B	Min Temp (°C)	Max Temp (°C)	Specific Density (gr/cm³)
Soft iron	D	-	-	-	-	90	56	-60	500	7.85
Steel (LCS)	S	-	-	-	-	120	68	-40	500	7.85
ASTM A182-F5	F5	12CrMo 195	1.7362	A182-F5	-	130	72	-40	650	7.9
Stainless Steel 304	S 304	X5CrNi 1810	1.4301	304	304S15/16/31	160	83	-250	550	7.9
Stainless Steel 304L	S 304L	X2CrNi 1911	1.4306	304L	304S11	160	83	-250	550	7.9
Stainless Steel 309	S 309	X15CrNiSi 2012	1.4828	309	309S24	160	83	-100	1000	7.9
Stainless Steel 316	S 316	X5CrNiMo 1712	1.4401	316	316S31/33	160	83	-100	550	7.9
Stainless Steel 316L	S 316 L	X2CrNiMo 1713	1.4404	316 L	316S11/13	160	83	-100	550	7.9
Stainless Steel 316 Ti	S 316 Ti	X10CrNiMoTi 1712	1.4571	316 Ti	320S31	160	83	-100	550	7.8
Stainless Steel 321	S 321	X6CrTi 1810	1.4541	321	321S12/49/87	160	83	-250	550	7.9
Stainless Steel 347	S 347	X6CrTiNb 1310	1.4550	347	347S31	160	83	-250	550	7.9

Material	Identification	Hardness (Brinell HB)	Hardness (Rockwell B)	Density
Inconel	625	180	90	8
Inconel	825	180	90	8
Monel	400, 600	180	90	8

3. Flanges

Somwati Associates offer a comprehensive selection of flange types, including slip-on, blind, weld neck, socket weld, threaded, ring joint, lap joint, orifice, long weld neck, plate, raised face, large diameter, spacer, and more. Each flange is available in various sizes, pressure ratings, and materials such as stainless steel, carbon steel, alloy steel, duplex and super duplex steel, and high nickel alloys. Our flanges adhere to international standards like ANSI/ASME B16.5, B16.47 Series A & B, B16.48, BS4504, EN-1092, DIN, and more, ensuring compatibility and reliability across applications.

Product Description

Flanges are integral components in piping systems, serving as the interface for connecting pipes, valves, pumps, and other equipment to form a cohesive and functional assembly. Their design allows for straightforward cleaning, inspection, and modification, which is vital for maintaining system integrity and performance.

Our flanges are manufactured using high-quality materials, including stainless steel, carbon steel, alloy steel, duplex and super duplex steel, and high nickel alloys, to cater to a wide range of industrial requirements. The selection of appropriate materials ensures durability, corrosion resistance, and suitability for various operating environments.

We provide flanges in sizes ranging from 1/4" NB to 24" NB, with options for larger sizes upon request. Pressure ratings are available from ANSI Class 150 LBS up to 2500 LBS, accommodating different operational pressures and ensuring safety and reliability.

Our diverse range of flange types includes:

Blind Flanges:

Used to seal off the ends of piping systems or pressure vessel openings.

Slip-On Flanges:

Easy to install and ideal for low-pressure applications.

Weld Neck Flanges:

Designed for high-pressure applications, providing reinforcement in the flange area.

Socket Weld Flanges:

Typically used for small-diameter, high-pressure pipes.

Threaded Flanges:

Allow for assembly without welding, suitable for certain pressure conditions.

Ring Joint Flanges:

Feature a groove for a metal ring, ensuring a leak-proof seal in high-pressure applications.

Lap Joint Flanges:

Used with stub ends, suitable for systems requiring frequent dismantling.

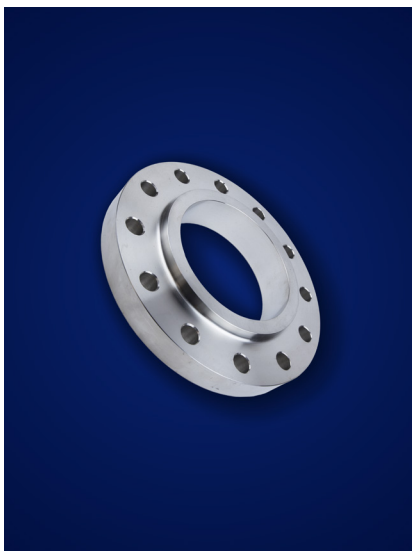
Orifice Flanges:

Incorporate orifice plates for flow measurement in piping systems.

Each flange undergoes rigorous quality control processes to ensure compliance with international standards such as ANSI/ASME B16.5, B16.47 Series A & B, B16.48, BS4504, EN-1092, and DIN. This commitment to quality guarantees that our flanges deliver reliable performance, safety, and longevity in various industrial applications.

Whether you require standard flanges or custom solutions, our technical team is ready to assist you in selecting the most appropriate products to meet your specific needs. Trust our industrial flanges for robust and efficient connections in your piping systems.

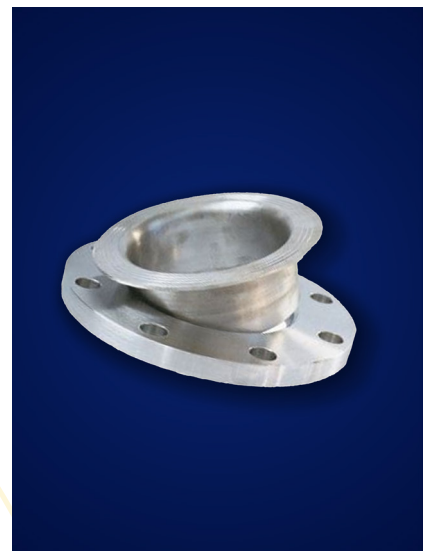
Types of Flanges



Socket Weld Flanges



Lap Joint Flanges



Slip-on Flanges



Weld Neck Flanges



Threaded Flanges



Blind Flanges

4. Integral Fittings

We offer a comprehensive selection of integral fittings, including elbows, tees, crosses, pup joints. These fittings are available in threaded (NPT or PT), socket-weld, and butt-weld configurations, accommodating sizes from NPS 1/8" to 4" (DN 6 to 100). They are designed to withstand pressure ratings of 2000, 3000, and 6000 LBS for threaded ends; 3000, 6000, and 9000 LBS for socket-weld ends; and schedules SCH40, SCH80, SCH160, and XXS for butt-weld ends. Manufactured in accordance with ASME B16.11-2009, MSS-SP-79, 83, 95, 97, and BS3799 standards, our fittings utilize materials such as ASTM A105, A350 LF2, A106, A312, A234, A403, and ASTM A182 (F304, F304L, F316, F316L, F304H, F316H, F317L, F321, F11, F22, F91). Each fitting undergoes rigorous quality control, including appropriate marking and finishing processes, to ensure compliance and performance.

Product Description

Integral fittings are essential components in industrial piping systems, engineered to provide secure and efficient connections under high-pressure conditions. Our range includes various types of fittings:

Elbows:

Facilitate directional changes in piping systems.

Tees and Crosses:

Allow for the distribution or collection of fluid from multiple directions.

Pup joints:

Vajra offers best in class pup joints in the variants: 1502 Integral Pup Joints and 1502 NPST Pup Joints.

Plug Valve:

The Plug Valve 2 Fig 1502 is a high-pressure, quarter-turn valve rated for 15,000 PSI, ideal for oilfield applications like well service, fracturing, and cementing. It ensures a tight seal, smooth operation, and minimal maintenance.

Each fitting is crafted from high-quality raw materials, with round bars ranging from 19mm to 85mm in diameter. To ensure traceability and quality assurance, our carbon and alloy steel fittings are marked by stamping, while stainless steel fittings are marked by electro-etching, jet printing, or stamping. Finishing options include galvanized or black coatings for carbon steel and pickling for stainless steel, enhancing durability and corrosion resistance.

Choose our integral fittings for reliable, high-performance solutions tailored to meet the rigorous demands of your industrial applications.



Types of Intergal Fittings



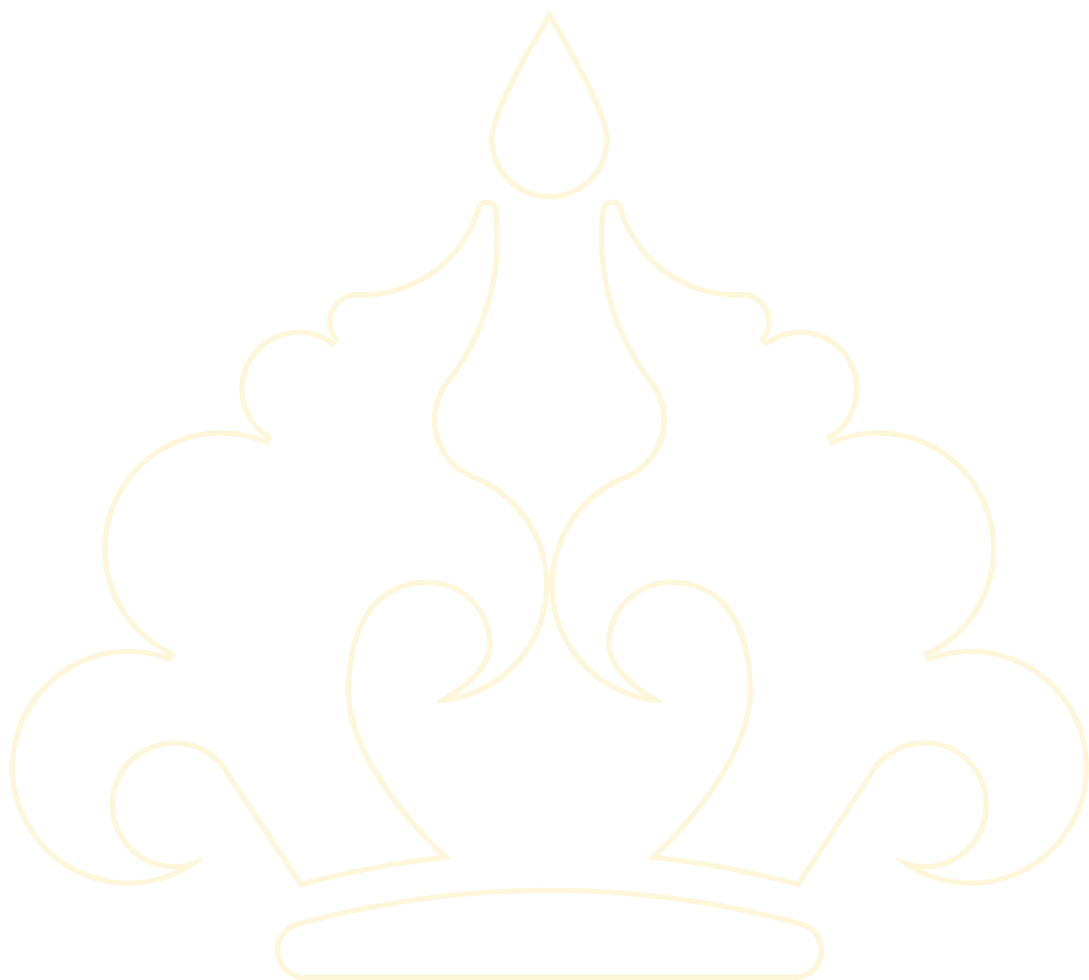
Crosses



Tees



Ells



5. Forged High Pressure Pipe Fittings

We offer a comprehensive selection of fittings, including elbows, tees, crosses, couplings, caps, plugs, bushings, unions, hex nipples, swage nipples, bull plugs, street elbows, bosses, reducer inserts, and outlets. These fittings are available in threaded (NPT or PT), socket-weld, and butt-weld configurations, accommodating sizes from NPS 1/8" to 4" (DN 6 to 100). They are designed to withstand pressure ratings of 2000, 3000, and 6000 LBS for threaded ends; 3000, 6000, and 9000 LBS for socket-weld ends; and schedules SCH40, SCH80, SCH160, and XXS for butt-weld ends. Manufactured in accordance with ASME B16.11-2009, MSS-SP-79, 83, 95, 97, and BS3799 standards, our fittings utilize materials such as ASTM A105, A350 LF2, A106, A312, A234, A403, and ASTM A182 (F304, F304L, F316, F316L, F304H, F316H, F317L, F321, F11, F22, F91). Each fitting undergoes rigorous quality control, including appropriate marking and finishing processes, to ensure compliance and performance.

Product Description

Our forged high-pressure pipe fittings are essential components in industrial piping systems, engineered to provide secure and efficient connections under high-pressure conditions. The range includes various types of fittings:

Elbows:

Facilitate directional changes in piping systems.

Tees and Crosses:

Allow for the distribution or collection of fluid from multiple directions.

Couplings and Half Couplings:

Connect two pipes together, ensuring a leak-proof joint.

Caps and Plugs:

Seal the ends of pipes, preventing fluid flow.

Bushings and Reducer Inserts:

Adapt pipes of different sizes, ensuring seamless flow transitions.

Unions:

Provide easy disconnection points for maintenance or system modifications.

Hex Nipples, Swage Nipples, and Bull Plugs:

Serve specialized functions in connecting and sealing pipe ends.

Street Elbows and Bosses:

Offer unique configurations for specific piping requirements.

Outlets:

Provide branching connections in piping systems.

These fittings are available in multiple configurations:

Threaded Ends (NPT or PT):

Suitable for easy assembly and disassembly without welding, ideal for low to medium-pressure applications.

Socket-Weld Ends:

Provide a strong and leak-proof joint, suitable for high-pressure applications.

Butt-Weld Ends:

Offer a seamless and robust connection, ideal for high-pressure and high-temperature environments.

Our fittings are manufactured in sizes ranging from NPS 1/8" to 4" (DN 6 to 100), accommodating various system requirements. They are designed to withstand the following pressure ratings:

Threaded Ends (NPT or PT):

2000, 3000, and 6000 LBS

Socket-Weld Ends:

3000, 6000, and 9000 LBS

Butt-Weld Ends:

Schedules SCH40, SCH80, SCH160, and XXS

Adhering to industry standards, our fittings are produced in compliance with:

Dimensional Specifications:

ASME B16.11-2009, MSS-SP-79, 83, 95, 97, and BS3799

Thread Specifications:

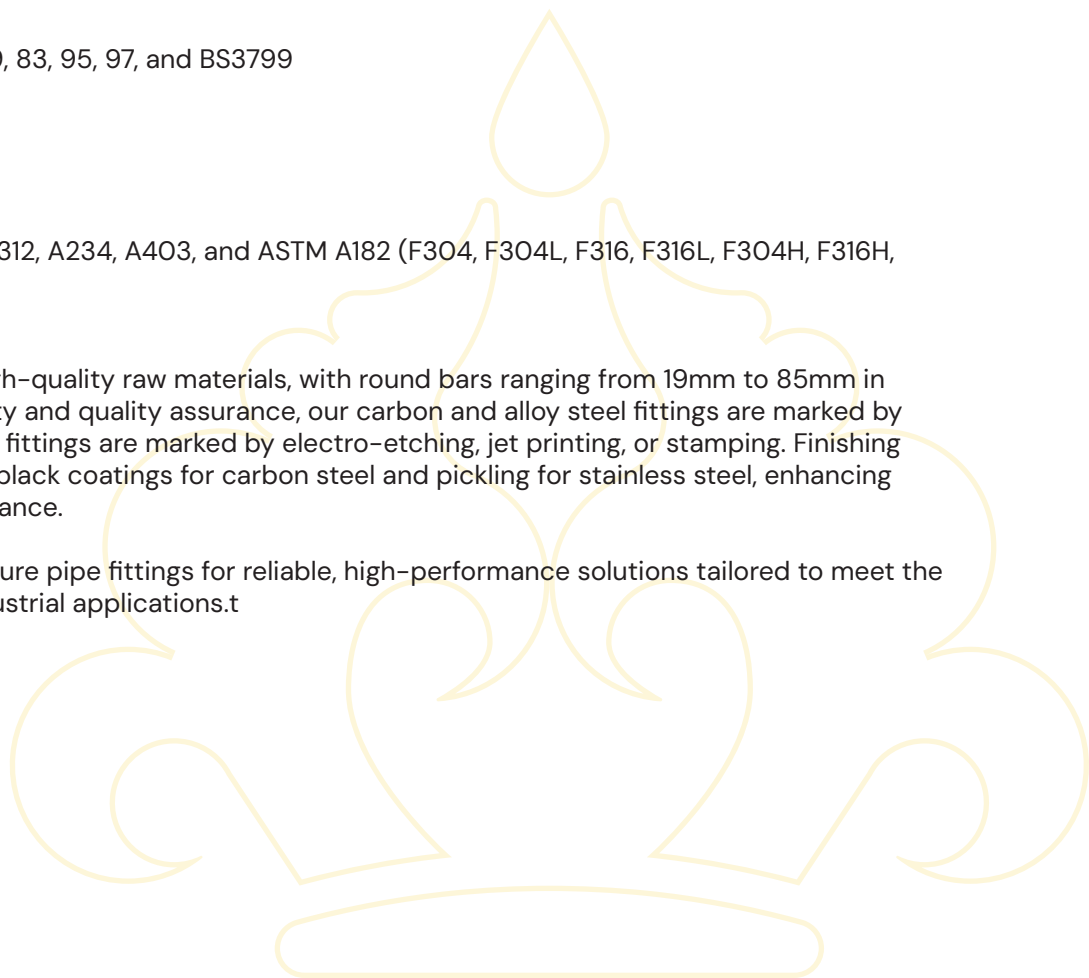
ANSI/ASME B1.20.1-1983 NPT

Material Specifications:

ASTM A105, A350 LF2, A106, A312, A234, A403, and ASTM A182 (F304, F304L, F316, F316L, F304H, F316H, F317L, F321, F11, F22, F91)

Each fitting is crafted from high-quality raw materials, with round bars ranging from 19mm to 85mm in diameter. To ensure traceability and quality assurance, our carbon and alloy steel fittings are marked by stamping, while stainless steel fittings are marked by electro-etching, jet printing, or stamping. Finishing options include galvanized or black coatings for carbon steel and pickling for stainless steel, enhancing durability and corrosion resistance.

Choose our forged high-pressure pipe fittings for reliable, high-performance solutions tailored to meet the rigorous demands of your industrial applications.



PRODUCT CATEGORIES

FORGED HIGH PRESSURE PIPE FITTINGS

Product Specification

Category	Details
Type	1. Elbow, Tee, Cross, Coupling, Half Coupling, Cap, Plug, Bushing, Union, HEX. Nipple, Swage nipple, Bull Plug, Street Elbow, Boss, Reducer Insert and Out-let...etc 2. Threaded (NPT or PT Type), Socket-Weld, Butt-welding
Size	NPS 1/8"~4" DN 6~100
Rating Pressure	Threaded End ~ 2000 / 3000 / 6000 LBS. Socket-weld End ~ 3000 / 6000 / 9000 LBS. Butt-weld End ~ SCH40 / SCH80 / SCH160 / XXS
Specification	1. Dim. Spec. : ASME B16.11-2009 (Revision of ASME B16.11-2005) MSS - SP - 79, 83, 95, 97 and BS3799. ANSI / ASME B1.20.1-1983 NPT 2. Material Spec. : ASTM A105, A350 LF2, A106, A312, A234, A403 ASTM A182 (F304, F304L, F316, F316L, F304H, F316H, F317L, F321, F11, F22, F91) 3. Size of Raw Material: DIA. 19~85mm Round Bar.
Marking	1. Carbon and Alloy Steel: Marked by stamping. 2. Stainless Steel: Marked by electro-etched, jet printed or stamping. 3. 3/8" under: Brand only. 4. 1/2" to 4": Marked with brand, material, heat code, B16 (For ASME B16.11 product), pressure and size.
Finishing	Carbon steel: Galvanized or black. Stainless steel: Pickled.

Types of Forged High Pressure Pipe Fittings



Swage Nipple



Bull Plug



Elbows



Socket Welded



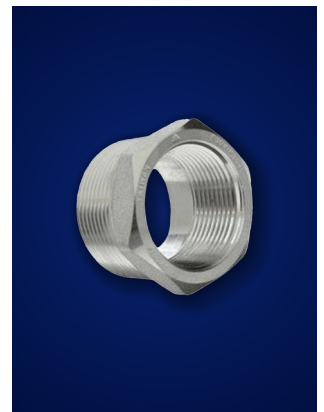
Reducer



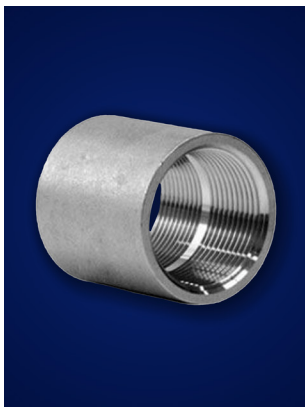
Caps



Butt Welded



Bushing



**Coupling &
Half Coupling**



**Union, HEX, Nipple,
Street Elbow, Boss,
Reducer Insert, Outlet,
etc.**



6. Wellhead Accessories

We offer a diverse selection of wellhead accessories, including:

Weld Neck Flanges: API Specified 6B and 6BX weld neck flanges with restricted bores matching standard pipe sizes and schedules.

Studded Tees and Crosses: Available in various nominal sizes and working pressures, facilitating multiple pipeline connections.

Flanged Tees and Crosses: Designed for secure flanged connections in wellhead assemblies.

Double Studded Adapters: Provide versatile solutions for connecting components with differing flange sizes or pressure ratings.

Drilling and Diverter Spools: Customizable spools accommodating various end connections and outlet sizes.

Adapter Tools and Flanged Adapters: Ensure compatibility between different equipment interfaces.

Riser Spools and Pup Joints: Manufactured from forged steel, available in sizes from 1" to 4" with pressure ratings up to 12,000 PSI.

Flanged-to-Union Adapters and Studs and Nuts: Essential components for secure and efficient wellhead operations.

Product Description

Our wellhead accessories are integral to the safe and efficient management of oil and gas extraction processes. Each component is engineered to withstand the high pressures and demanding conditions typical of drilling operations.

Weld Neck Flanges:

We provide API Specified 6B weld neck flanges with restricted bores tailored to standard pipe sizes and schedules, as well as 6BX weld neck flanges conforming to full bore integral flange requirements. Customers may specify weld neck lengths to suit specific applications.

Studded and Flanged Tees/Crosses:

Our studded and flanged tees and crosses are available in various nominal sizes and working pressures, facilitating the distribution and control of flow within the wellhead assembly.

Double Studded Adapters:

These adapters offer flexibility in connecting components with differing flange specifications, ensuring seamless integration within the wellhead system.

Drilling and Diverter Spools:

Customizable to specific requirements, our spools accommodate various end connections and outlet sizes, playing a critical role in managing drilling fluid circulation and pressure control.

Adapter Tools and Flanged Adapters:

Designed to bridge compatibility between different equipment interfaces, these tools ensure a secure and efficient connection within the wellhead assembly.

Riser Spools and Pup Joints:

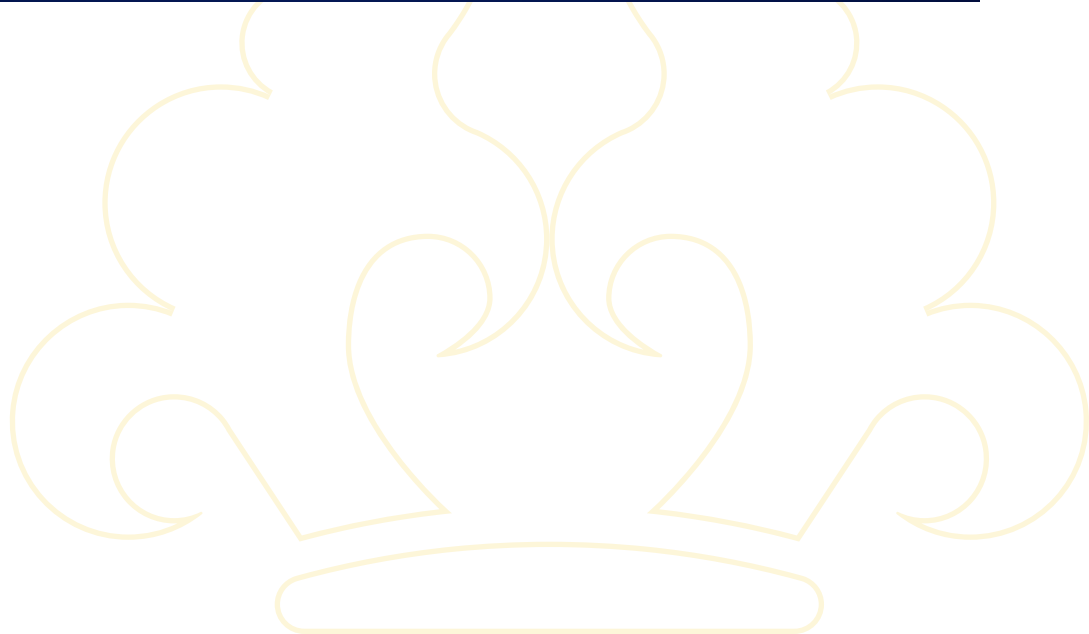
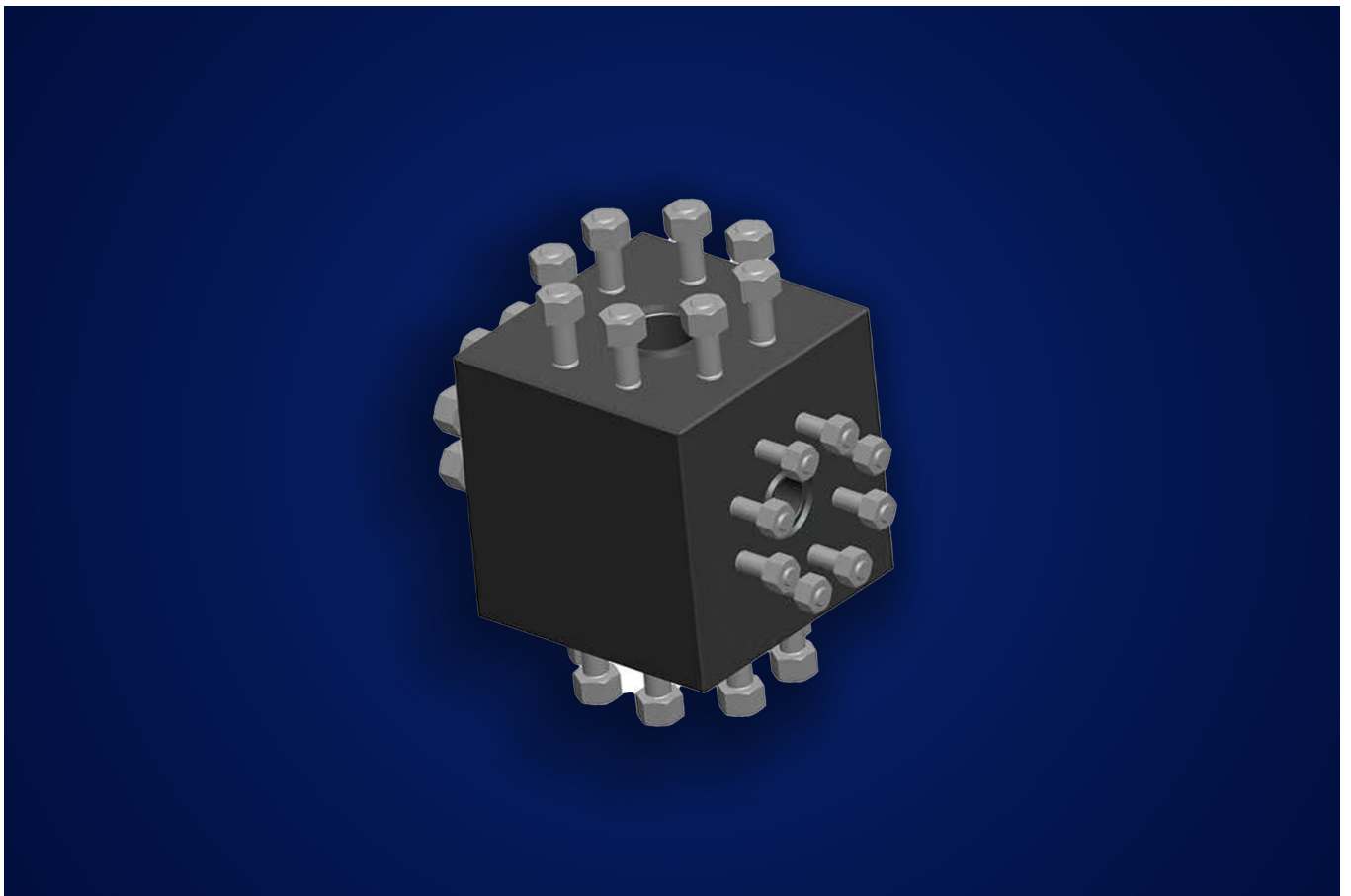
Manufactured from high-quality forged steel, our riser spools and pup joints are available in sizes ranging from 1" to 4" and can withstand pressure ratings up to 12,000 PSI, ensuring durability and reliability in high-pressure applications.

Flanged-to-Union Adapters and Studs and Nuts:

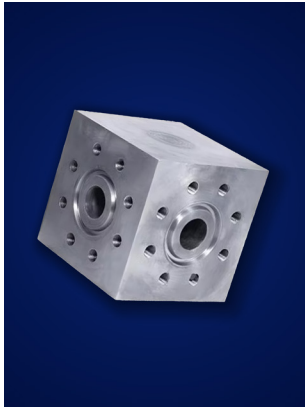
These components are essential for the secure assembly and maintenance of wellhead systems, ensuring operational integrity and safety.

Each product is manufactured in adherence to industry standards, utilizing materials that meet ASTM and AISI specifications. Our commitment to quality ensures that our wellhead accessories deliver exceptional performance, reliability, and safety in the most challenging operational environments.

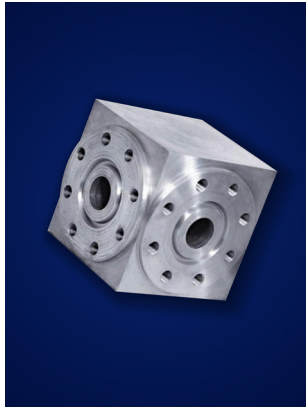
For detailed specifications and customization options, please contact our technical team, who are ready to assist you in selecting the most suitable components for your specific needs.



Types of Wellhead Accessories



Studded Tees



Studded Crosses



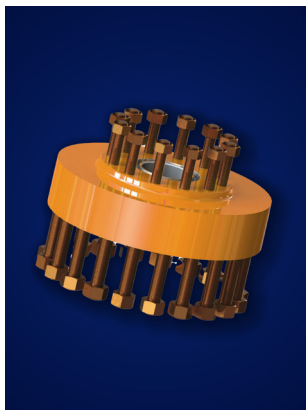
Flanged Crosses



Flanged Tees



Drilling Spools



**Double Studded
Adapters**



Diverter Spools



Adapter Tools



Riser Spools



**Flanged to Union
Adapters**



Flanged Adapters

7. Industrial Fasteners

Our fasteners are manufactured in various sizes and materials, adhering to international standards, ensuring reliability and durability across multiple industries.

Product Description

At Somwati Associates, we pride ourselves on delivering high-quality industrial fasteners that cater to a wide array of applications. Our product line encompasses bolts, nuts, screws, threaded rods, and washers, each meticulously crafted to meet stringent industry standards such as DIN, ASTM, and BS.

Our bolts range from M3 to M56 in size, with lengths spanning from 3 mm to 200 mm, ensuring suitability for various assembly requirements. Nuts are available in sizes M3 to M56, while machine screws range from M1.6 to M12, providing versatility for different fastening needs. Washers are offered in sizes M3 to M56, complementing our comprehensive fastener solutions.

Understanding the critical role of material selection, we offer fasteners in an array of materials, including Super Duplex, Duplex, Inconel, Monel, Hastelloy, Stainless Steel, Alloy Steel, Carbon Steel, Cupronickel, and Nickel Alloy. This diversity ensures that our fasteners perform optimally under various environmental conditions and mechanical stresses.

Our fasteners are engineered to create robust, non-permanent joints, facilitating easy assembly and disassembly without compromising the integrity of the connected components. This feature is particularly advantageous in industries such as shipbuilding, construction, and heat exchanger manufacturing, where maintenance and flexibility are paramount.

At Somwati Associates, we are committed to delivering fasteners that not only meet but exceed customer expectations, ensuring reliability, durability, and performance across all applications.



Types of Industrial Fasteners



Nuts



Studs



Contact us



Email us at: **info@somwatiassociates.com**



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**Made for
the toughest
of conditions**