



ARNOCO

Producer and supplier of **forged**
fittings, flanges, and stud bolts

www.arnoco.co



About Us

Arvand Novin Saanat Darya Knowledge-Based Company, under the brand name ARNOCO, has been active since 2018 with the mission of enhancing domestic capabilities and reducing the dependence of national industries on imports. Relying on specialized knowledge, advanced engineering capabilities, and the expertise of industry elites, we are pioneers in the design, reverse engineering, localization, and manufacturing of specialized mechanical parts and sensitive industrial equipment. The production of various types of flanges, forged fittings, stud bolts, and other customized industrial parts in accordance with international standards has made us one of the reliable manufacturers for the oil, gas,

petrochemical, power plant, water, and other strategic industries of the country.

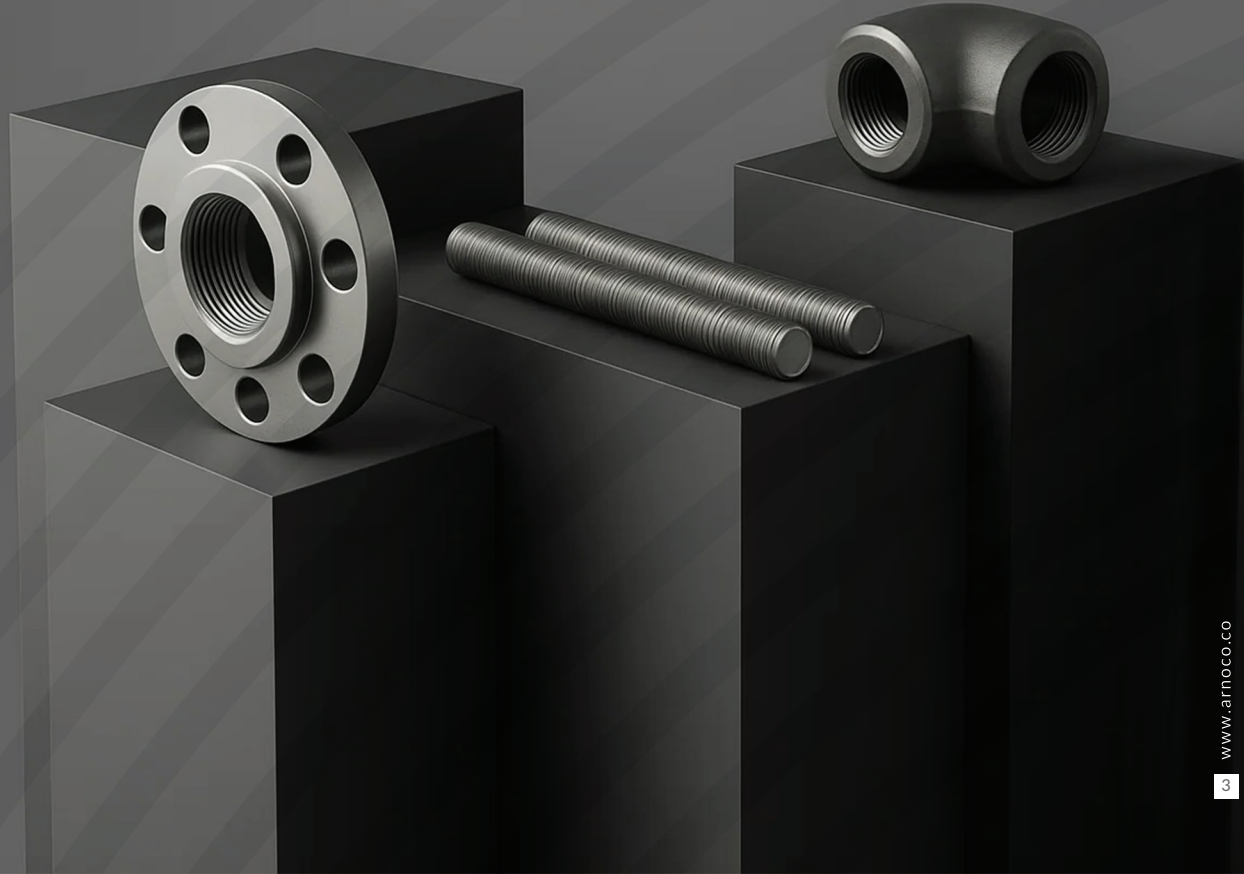
We believe that customer satisfaction is the cornerstone of our success.

Therefore, by offering premium-quality products, competitive prices, and precise on-time delivery, we strive to be a reliable partner and a valuable supporter of national industries.

Our goal goes beyond manufacturing parts in compliance with international standards; it is to build technological infrastructures, enhance national production capacities, and provide innovative industrial solutions that promote efficiency and sustainability for the beloved industries of Iran.

Products

Flanges | Forged Fittings | Stud Bolts



Flange

A flange is a highly practical mechanical component used for connecting pipes, valves, pumps, and other industrial equipment. It is designed to provide a strong connection while ensuring reliable sealing and preventing fluid leakage.

One of the key features of flanges is their ease of disassembly. This makes them highly effective in situations where equipment requires maintenance, replacement, or inspection.

Flanges are widely used across various industries, including oil and gas, petrochemical, power plants, marine

industries, and water and wastewater facilities. Thanks to their wide range of sizes, materials, and manufacturing standards, they can be adapted for different operating conditions. In addition to their mechanical strength, flanges guarantee complete sealing by using a gasket between two connecting surfaces.

Overall, flanges are considered vital components in fluid transfer systems, playing a crucial role in enhancing safety, facilitating maintenance, and improving the efficiency of industrial equipment.



Standard	Work Pressure	Flange Type	Size	Material
API 6A	2000–15000 PSI	Welding Neck, Blind, Integral	2 1/16" – 20 3/4"	Carbon steel, Stainless steel, Steel for low temperature, High yield carbon steel, Low alloy steels, Copper alloys, Titanium, Special low sulphur carbon steel For sour service (HIC & SSC test), A 105 – SA 105, A515 GR70 – A516 GR70, A350 LF1.2.3 A182 F304 – 316 – 321 – 304L – 316L – 321L, A182 F1 – 5A – F9 – F11 – F22 – F51, MONEL 400 – MONEL K500, A694 F42 – F52 – F60 – F65 – F70
API 605	75–900#	Welding Neck, Blind	26" – 60"	
ASME B16.5	150–2500#	Welding Neck, Blind, Slip On, Threaded, Socket Weld, Lapped Joint	1/2" – 24"	
ASME B16.47(A)	150–900#	Welding Neck, Blind	26" – 60"	
ASME B16.47(B)	75–900#	Welding Neck, Blind	26" – 60"	
ASME B16.36	300–2500#	Orifice	1" – 24"	
MSS SP44	150–900#	Welding Neck, Blind	12" – 60"	
BS 3293	150–600#	Welding Neck, Slip On	26" – 48"	
BS 1560	150–2500#	Welding Neck, Blind	1/2" – 24"	
DIN	PN6–PN400#	Water (Low Pressure)	1/2" – 56"	
ASME B16.48	150–2500#	Paddle Spectacle	1/2" – 24"	
ASME B31.3	250–15000 PSI	Paddle Spectacle	1/2" – 60"	
ASME Sec VIII	250–15000 PSI	Flange	1/2" – 60"	



Welding Neck Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



Welding Neck Flange – Long

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



Socket weld Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



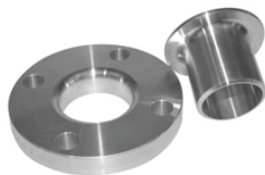
Threaded Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



Blind Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



Lap joint Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



Slip on Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



Spectacle blind Flange

Size	1/2 – 30 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys – ASTM A285 gr C – ASTM A516 gr 70
Class	150 – 1500
SCH	40, 60, 80
Standard	ANSI B16.5



American
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STANDARDS







■ Forged Fitting

Forged fittings are a group of industrial components manufactured through the forging process. In this process, the metal is shaped under specific pressure and temperature conditions, which leads to an increase in internal structural density, the elimination of voids, and the enhancement of the metal's mechanical properties.

As a result of this operation, the produced components possess high strength, greater resistance to pressure and temperature, and long-term durability.

One of the key advantages of forged fittings is their high mechanical load capacity

and resistance to cracking and leakage, which makes them a reliable alternative to conventional fittings in sensitive and high-risk environments.

In addition, these components are produced in various types such as elbows, tees, couplings, caps, and unions, each designed for specific applications.

In summary, due to their high manufacturing quality and superior technical characteristics, forged fittings are considered essential components in the design and implementation of piping systems and industrial facilities.



Standard	Work Pressure	Types	Size	Material
ASME B16.11, MSS	9000 , 6000 ,	coupling , half coupling ,	1/4 – 3/8	Carbon Steel and Alloy
SP-83 , MSS SP-97	3000 , 2000	reducing coupling , cap ,	1/2 – 3/4	Steel: A105, A694 F42,
, MSS SP-95 , MSS		weldolet , socketlet ,	1 – 1,1/8	F50, F60, A350, LF2, LF3,
–SP 79 , BS 3799 ,		thredolet , elbow 45 ,	1,1/4	LF6
IGS , IPS		elbow 90 , tee , union ,	1,3/8	Stainless Steel and Alloy
		round and hex plug ,	1,1/2 – 2	Steel: A182, F304, F304L,
		hexagonal head plug ,	2,1/2	F316, F316L, F321, F347,
		nipple , hex nipple , swage	3 – 4	F22, F9, F11, F22, Duplex
		nipple		



STANDARDS



Hex Head Plug

Size	1/2 – 2 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Round Plug

Size	1/2 – 2 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Swage Nipple

Size	1*3/4 – 2*1 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Hex Nipple

Size	5/16 JIC – 1 1/2 JIC
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Sockolet

Size	1/2 – 2 1/2 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld



Threadolet

Size	5/16 JIC – 1 1/2 JIC
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Weldolet

Size	1/2 – 2 1/2 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld



Elbow 90

Size	1/2 – 2 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld



Elbow 45

Size	3/8 – 3 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld



TEE

Size	1*3/4 – 2*1 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Reducing Coupling

Size	1*3/4 – 2*1 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Coupling

Size	1*3/4 – 2*1 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded



Half Coupling

Size	1/2 – 2 1/2 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld



Cap

Size	1/2 – 2 inch
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld



Union

Size	3/8 – 3 inch npt
Material	Carbon steel A105 – StainlessSteel 304, 316, 316L, 321 – SA350/LF2 – Super alloys
Standard	ASME B16.11 – NACE MR0175
Conection	Threaded – Socket weld







Stud Bolt

A stud bolt is a type of double-ended threaded bolt, typically used along with two nuts and washers for connecting flanges and industrial equipment. This component is manufactured in accordance with international standards such as ASTM A193, ASTM A320, DIN, and ISO. Depending on the working conditions, it is available in various grades and materials, ranging from carbon steel to alloy and stainless steels.

Advantages and Features:

- Provides a strong and uniform connection in pressurized equipment
- Capable of withstanding high temperatures and pressures in operational environments

- Allows repeated assembly and disassembly of connections without loss of quality
- Manufactured in various lengths and sizes according to flange classes ASME B16.5 and B16.47

Stud bolts serve as a key component in the oil, gas, petrochemical, refinery, and power plant industries, playing an important role in ensuring the safety and stability of pressurized systems.



Type

Completely Threaded Stud-Bolts	With 2 nuts
Completely Threaded Bars	Without nuts
Stud-Bolts	With 1 nut

Dimension Standard

Stud-Bolts	ASME B16.5/ API Spec. 6A/ B.S. 4882 and UNI6610
Nuts	ASME B18.2.2 and UNI 5587 – 5588 – 5591

Material

ASTM A193	Gr.B5-B6-B7-B7M-B8-B8A-B8M-B8MA-B8T-B8TA-B16
ASTM A194	Gr.2H-2HM-3-4-6-7-7M-8-8A-8M-8MA-8T-8TA
ASTM A320	Gr.L7-L7M-L43-B8-B8A-B8M-B8MA-B8T-B8TA
ASTM B453	Gr.660 CL. A-B-C

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