



3000lbs Carbon Steel Threaded High Pressure Pipe Union With NPT BSPP

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-BS-F0-12
- Minimum Order Quantity: 10PCS
- Price: USD2-USD50 each pc as per different material
- Packaging Details: cartons + ply-wooden cases
- Delivery Time: 7 days for stock items
- Payment Terms: L/C, , T/T, D/P
- Supply Ability: 10000pcs each momth



Product Specification

- Standard: ANSI B16.11
- Material: A105, A105N, A350LF2, F22, SS316, SS304, DUPLEX SS, ALLOY STEEL
- Rating: 2000#, 3000#, 6000#, 9000# 2000LBS 3000LBS 6000LBS 9000LBS
- Connetion: Socket Welded SW Threaded NPT BSPT BSPP
- Size: 1/2"-4"
- Surface: Black, Pickling, Anti-rust Oil
- Highlight: Threaded high pressure pipe union, Carbon Steel high pressure pipe union, BSPP high pressure union

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Product Description

3000lbs Carbon Steel High Pressure Fittings threaded Union With NPT BSPP

A105N or Stainless screw-threaded Unions are used in low-pressure piping where it is required to dismantle the pipe often. A Forged threaded screw Union is similar to socket welded Union joint design. It consists of three interconnected pieces. This fitting has two internal threads and a centerpiece that draws the ends together when rotated. In order to minimize the warping of the seats, the unions should be screwed tightly before the end are NPT or BSPP. ANSI B16.11 screw threaded Union fittings are available in customizable sizes as per the customers' requests. Forged high pressure fittings under this Standard of ANSI B16.11 shall be designated as Class 2000, 3000, and 6000 for threaded end fittings and Class 3000, 6000, and 9000 for socket-weld end fittings.

Product Information/Product Description/Basis Information/Specification

Specification	Forged stainless steel fittings: ASTM A182, ASTM SA182 S/W & SCD (NPT / BSP / BSPT)
	Carbon steel forged fittings: A-105, S/W & SCD (NPT / BSP / BSPT)
	Mild Steel Forged Fitting: IS BS ASTM ANSI B16.11 S/W & SCD
	Nickel Alloy forged fittings: ASTM B366 S/W & SCD
	Non Ferrous metal forged fittings: IS BS ASTM S/W & SCD
Forged Screwed-Threaded Union Dimension	ANSI B 16.11
Forged Screwed-Threaded High pressure Union Size	1/4" NB TO 4" NB
Forged Screwed-Threaded Union Class	2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS
Forged steel fittings Range	Coupling, Plug, Socket, Bushing, Elbow, Tee, Nipple, Union, Threading Outlet, Welding Outlet, Socket Weld Outlet.
Stainless Steel Forged Screwed-Threaded soft seal Union	ASTM A182 F304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L
Duplex Steel Forged Screwed-Threaded Conical union	ASTM A 182 –F51 / F52 / F53 / F54 / F55 / F57 / F59 / F60 / F61 S 31803, S 32205, S 32550, S 32750, S 32760
Carbon Steel Forged Screwed-Threaded Conical Union	ASTM/ ASME A 105, ASTM/ ASME A 350 LF 2
Alloy Steel Forged Screwed-Thread High pressure Union	ASTM / ASME A 182 GR F5, F 9, F 11, F 12, F 22, F 91.
Copper Alloys Forged Screwed-Threaded Union	ASTM / ASME SB 111 UNS NO. C 10100 , C 10200 , C 10300 , C 10800 , C 12000, C 12200, C 70600 C 71500
	ASTM / ASME SB 466 UNS NO. C 70600 (CU -NI- 90/10) , C 71500 (CU -NI- 70/30)
Nickel Alloy Forged Screwed-Threaded Union with Soft Seal	ASTM / ASME SB 336, ASTM / ASME SB 564 / 160 / 163 / 472, UNS 2200 (NICKEL 200) , UNS 2201 (NICKEL 201), UNS 4400 (MONEL 400), UNS 8020 (ALLOY 20 / 20 CB 3), UNS 8825 INCONEL (825) , UNS 6600 (INCONEL 600), UNS 6601 (INCONEL 601) , UNS 6625 (INCONEL 625) , UNS 10276 (HASTELLOY C 276)
Low temperature steel:	A522 A707 Grade L 1-L 2-L 3-L 4-L 5-L 6-L 7-L 8
High performance steel:	A694 F 42-F 46-F 48-F 50-F 52-F 56-F 60-F 65-F 70

Features /Characteristics

Strength and Durability: Forged pipe fittings are known for their superior strength and durability compared to fittings made through other manufacturing methods. The forging process creates a dense and compact structure that can handle high-pressure and high-temperature applications.

Leak-Free Performance: The tight grain structure of forged fittings ensures a leak-free connection. The absence of porosity or voids in the metal reduces the risk of leaks or failures, making them suitable for critical applications where leakage is not acceptable.

Pressure Ratings: Forged pipe fittings generally have higher pressure ratings compared to fittings made by other methods. This makes them ideal for systems that operate under high pressure conditions.

Resistance to Corrosion: Forged fittings are available in various materials such as carbon steel, stainless steel, and alloy steel, which offer excellent resistance to corrosion. The choice of material depends on the specific requirements of the application, ensuring compatibility with the transported fluid or gas.

Wide Range of Shapes and Sizes: Forged pipe fittings are available in a wide range of shapes and sizes to meet different piping system requirements. Common types include elbows, tees, crosses, couplings, unions, caps, and plugs.

Versatility: Forged fittings are suitable for use in various industries such as oil and gas, petrochemicals, power generation, and chemical processing. They can handle different types of fluids, gases, and temperatures, making them versatile for diverse applications.

Quality and Consistency: Due to the controlled forging process, forged pipe fittings exhibit consistent quality and dimensional accuracy. This ensures that the fittings can be easily installed and provide a reliable connection within the piping system.

Longevity: With their robust construction and resistance to wear and tear, forged fittings offer a longer service life compared to other types of fittings. Proper installation, maintenance, and adherence to recommended operating conditions can further

enhance their longevity.

Technology/ Technical Data Sheets

Forged Threaded Plugs and Bushing

Table 5 Plugs and Bushings

Square Head Plugs								
Nominal Pipe Size	Minimum Length, A	Minimum Square Height, B	Minimum Width Flats, C	Nominal Head Diameter, E	Minimum Length, D	Nominal Width Flats, E	Bushing, G	Plug, H
1/8	10	6	7	10	35	11	...	6
1/4	11	6	10	14	41	16	3	6
3/8	13	8	11	18	41	18	4	8
1/2	14	10	14	21	44	22	5	8
3/4	16	11	16	27	44	27	6	10
1	19	13	21	33	51	36	6	10
1 1/4	21	14	24	43	51	46	7	14
1 1/2	21	16	28	48	51	50	8	16
2	22	18	32	60	64	65	9	18
2 1/2	27	19	36	73	70	75	10	19
3	28	21	41	89	70	90	10	21
4	32	25	65	114	76	115	13	25

General Note: Dimensions are in millimeters.

Application/Usage

Forged high pressure fittings are commonly used in a variety of industries and applications involving high pressure fluid or gas systems. Some specific applications and uses of forged high pressure fittings include: Oil and Gas Industry, Power Generation, Chemical Processing, Pharmaceutical industry, Water Treatment, Mining and Construction, Aerospace and Defense HVAC and Piping

Material Grades:

Forged high pressure pipefittings here mentioned below are only a few of those covered by B16.11 standard. The physical and chemical values indicated correspond to the latest issued standard, although they are affected by modifications year after year, so we suggest to use them only as a guide.

Chemical Composition

ASTM		Analysis in %							
Designation		C	Mn	Si	Max. P	Max. S	Cr	Ni	Mo
A105 - 05									
		max. 0.35	0.60 - 1.05	0.10 - 0.35	0.035	0.04	max. 0.3 ^{3 4}	max. 0.4 ^{3 4}	max. 0.12 ³
A182 - 07									
Grades	F1 F5	max. 0.25	0.60 - 0.90	0.15 - 0.35	0.045	0.045	4.00 - 6.00		0.44 - 0.65
	F11 Cl. 1	max. 0.15	0.30 - 0.60	max. 0.50	0.030	0.030	1.00 - 1.50	max. 0.50	0.44 - 0.65
		0.05 - 0.15	0.30 - 0.60	0.50 - 1.00	0.030	0.030			0.44 - 0.65
	F11 Cl. 2 / Cl. 3	0.10 - 0.20	0.30 - 0.80	0.50 - 1.00	0.040	0.040	1.00 - 1.50		
	F22 Cl. 1 / Cl. 3	0.05 - 0.15	0.30 - 0.60	max. 0.5	0.040	0.040	2.00 - 2.50	8.00 - 11.00	0.44 - 0.65
	F304 ¹	max. 0.08	max. 2.00	max. 1.00	0.045	0.030	18.00 - 20.00		0.87 - 1.13
	F304 L ¹	max. 0.030	max. 2.00	max. 1.00	0.045	0.030	18.00 - 20.00	8.00 - 13.00	
	F316 ¹	max. 0.08	max. 2.00	max. 1.00	0.045	0.030	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00
	F316L ¹	max. 0.030	max. 2.00	max. 1.00	0.045	0.030	16.00 - 18.00	10.00 - 15.00	2.00 - 3.00
	F321 ²	max. 0.08	max. 2.00	max. 1.00	0.045	0.030	17.00 - 19.00	9.00 - 12.00	
A350 - 04									
Grades	LF1	max. 0.30	0.60 - 1.35	0.15 - 0.30	0.035	0.040	max. 0.3 ^{3 4}	max. 0.4 ³	max. 0.12 ³
	LF2 Cl. 1	max. 0.30	0.60 - 1.35	0.15 - 0.30	0.035	0.040	max. 0.3 ^{3 4}	max. 0.4 ³	max. 0.12 ³
	LF2 Cl. 2 LF3	max. 0.30	0.60 - 1.35	0.20 - 0.35	0.035	0.040	max. 0.3 ^{3 4}	max. 0.4 ³	max. 0.12 ³
		max. 0.20	max. 0.90	0.20 - 0.35	0.035	0.040	max. 0.3 ^{3 4}	3.3 - 3.7	max. 0.12 ³
A694 - 03									
Grades	F42 / F52 / F56 F60 / F65 / F70	max. 0.26	max. 1.4	0.15 - 0.35	0.025	0.025			

PHYSICAL PROPERTIES

ASTM Designation		Tensile strength		Fluency limit Elongation in 50 mm.			Stress	Brinell	
		Ksi min.	MPa	Ksi min.	MPa	% min.	% min.	Hardness (HB)	
A105 - 05									
		70	485	36	250	22	30	187 max.	
A182 - 07									
Grades	F1	70	485	40	275	20	30	143 - 192	
	F5	70	485	40	275	20	35	143 - 217	
	F11 Cl. 1	60	415	30	205	20	45	121 - 174	
	F11 Cl. 2	70	485	40	275	20	30	143 - 207	
	F11 Cl. 3	75	515	45	310	20	30	156 - 207	
	F22 Cl. 1	60	415	30	205	20	35	170 max.	
	F22 Cl. 3	75	515	45	310	20	30		
	F304	751	5151	30	205	30	50	156 - 207	
	F304L	702	4852	25	170	30	50		
	F316	751	5151	30	205	30	50		
	F316L	702	4852	25	170	30	50		
	F321	751	5151	30	205	30	50		
A350 - 04									
Grades	LF1	60 - 85	415 - 585	30	3 4	205	25	38	197 max.
	LF2 Cl. 1	70 - 95	485 - 655	36	3 4	250	22	30	197 max.
	LF2 Cl. 2	70 - 95	485 - 655	36	3 4	250	22	30	197 max.
	LF3 Cl. 1	70 - 95	485 - 655	37.5 ^{3 4}		260	22	35	197 max.
	LF3 Cl. 2	70 - 95	485 - 655	37.5 ^{3 4}		260	22	35	197 max.
A694 - 03									
Grades	F42	60	415	42	290	20			
	F52	66	455	52	360	20			
	F56	68	470	56	385	20			
	F60	75	515	60	415	20			
	F65	77	530	65	450	20			
	F70	82	565	70	485	18			

Products for shipment



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4. Final Test includes Surface, Dimension, PT Test, RT test, ultrasonic Test
5. Test Report each shipment
4. Flexible Delivery terms. EXW FOB CIF CFR DDP DDU
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10. 24 hours to Feedback your questions

DEYE SHIJIAZHUANG DEYE PIPING INDUSTRY CO., LTD Pipefittings Department)

+8613292824811

sales@deyepiping.com

deye-piping-industry.com

No. 368 Youyi St. Shijiazhuang, Hebei, China