SS316 3000lbs Forged High Pressure Couplings With Socket Weld Ends

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-BS-F9
- 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 B 16.11
- Material: A105, A105N. A350LF2, F22, SS316, SS304, DUPLEX SS, ALLOY STEEL
- Rating: 2000#, 3000#, 6000#, 9000#
- Size: 1/4"-4"
- Connection: Socket Welded SW Threaded NPT BSPT BSPP
- Surface: Black, Pickling, Anti-rust Oil
- Highlight: **SS316 High Pressure Couplings**, **Forged High Pressure Couplings**, **High pressure pipe couplings**

Product Description

Forged SS316 3000lbs High Pressure Couplings With Socket Weld Ends

The 3000LBS coupling is a pipe fitting used to stop leakages Couplings in broken or damaged pipes. The pipes to be connected should be of the same diameter. The two kinds of couplings used in plumbing are regular coupling and slip coupling. The regular coupling is arranged between the two pipes to prevent further leakages with the help of rubber seals or gaskets on the both sides. The slip coupling itself contains two pipes to repair the damaged lengthy pipes.

Product Information/Product Description/Basis Information/Specification

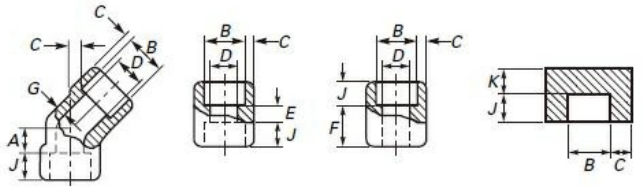
Specification	Forged stainless steel fittings: ASTM A182, ASTM SA182 S/W &SCRD (NPT / BSP / BSPT)
	Carbon steel forged fittings: A-105, S/W &SCRD (NPT / BSP / BSPT)
	Mild Steel Forged Fitting: IS BS ASTM ANSI B16.11 S/W & SCRD
	Nickel Alloy forged fittings: ASTM B366 S/W & SCRD
	Non Ferrous metal forged fittings: IS BS ASTM S/W & SCRD
Forged Screwed-Threaded Coupling Dimension	ANSI B 16.11
Forged Screwed-Threaded Coupling Size	1/4" NB TO 4" NB
Forged Screwed-Threaded Coupling 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, Sockt Weld Outlet.
Stainless Steel Forged Screwed-Threaded Coupling	ASTM A182 F304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L
Duplex Steel Forged Screwed-Threaded Coupling	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 Coupling	ASTM/ ASME A 105, ASTM/ ASME A 350 LF 2
Alloy Steel Forged Screwed-Threaded Coupling	ASTM / ASME A 182 GR F5, F 9, F 11, F 12, F 22, F 91.
Copper Alloys Forged Screwed-Threaded Full coupling/ Half Coupling	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 High Pressure Coupling	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

Socket Welding Forged Pipefittings for Couplings, Half-couplings and End Caps



45-deg Elbow Coupling Half-Coupling Cap

Nominal Pipe Size	Min. Depth of Socket, J	Center-to-Bottom of Socket, A: 90-deg Elbows, Tees, and Crosses, Class Designation 3000	6000	9000	45-deg Elbows, Class Designation 3000	6000	9000	Laying Lengths: Couplings, E	Half Couplings, F	Tolerances, ±: A	E	F	End Wall Thickness, K_{min}, Class Designation 3000	6000	9000
1/8	0.38	0.44	0.44	...	0.31	0.31	...	0.25	0.62	0.03	0.06	0.03	0.19	0.25	...
1/4	0.38	0.44	0.53	...	0.31	0.31	...	0.25	0.62	0.03	0.06	0.03	0.19	0.25	...
3/8	0.38	0.53	0.62	...	0.31	0.44	...	0.25	0.69	0.06	0.12	0.06	0.19	0.25	...
1/2	0.38	0.62	0.75	1.00	0.44	0.50	0.62	0.38	0.88	0.06	0.12	0.06	0.25	0.31	0.44
3/4	0.50	0.75	0.88	1.12	0.50	0.56	0.75	0.38	0.94	0.06	0.12	0.06	0.25	0.31	0.50
1	0.50	0.88	1.06	1.25	0.56	0.69	0.81	0.50	1.12	0.08	0.16	0.08	0.38	0.44	0.56
1 1/4	0.50	1.06	1.25	1.38	0.69	0.81	0.88	0.50	1.19	0.08	0.16	0.08	0.38	0.44	0.56
1 1/2	0.50	1.25	1.50	1.50	0.81	1.00	1.00	0.50	1.25	0.08	0.16	0.08	0.44	0.50	0.62
2	0.62	1.50	1.62	2.12	1.00	1.12	1.12	0.75	1.62	0.08	0.16	0.08	0.50	0.62	0.75
2 1/2	0.62	1.62	...	...	1.12	...	...	0.75	1.69	0.10	0.20	0.10	0.62	0.75	...
3	0.62	2.25	...	...	1.25	...	...	0.75	1.75	0.10	0.20	0.10	0.75	0.88	...
4	0.75	2.62	...	...	1.62	...	...	0.75	1.88	0.10	0.20	0.10	0.88	1.12	...

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 Designation		Analysis in % 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	max. 0.50	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		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	8.00 - 11.00	0.44 - 0.65
	F22 Cl. 1 / Cl. 3	0.05 - 0.15	0.30 - 0.60	max. 0.5	0.040	0.040	2.00 - 2.50		0.87 - 1.13
	F304 [1]	max. 0.08	max. 2.00	max. 1.00	0.045	0.030	18.00 - 20.00		
	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 Designatioin		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		

Finished Products for shipment

Our Service

1. Technical support
2. Raw Material Quality control.
3. Inspection during the production time.
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
5. Flexible payment Ways: LC. TT. DP
6. Customized Package includes Logo. Cases Dimension.
7. 18 months quality Guarantee time.
9. Free replacement by air if any error founded
10. 24 hours to Feedback your questions

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