Carbon Steel 3000# High Pressure Coupling With Full Threaded

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-BS-F08
- 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

- Highlight: **3000# High Pressure Coupling**, **Carbon Steel High Pressure Coupling**, **Full Thread carbon steel coupling**

More Images

Product Description

3000# Carbon Steel High Pressure Coupling With Full Thread

Forged high pressure fittings are typically made from materials such as carbon steel, stainless steel, alloy steel, or other suitable metals. The material selection depends on the specific application and the working conditions of the system. These fittings are known for their reliability and leak-free performance in demanding environments. They are often used in industries such as oil and gas, petrochemicals, power generation, and chemical processing. When selecting forged pipe fittings, it is important to consider factors such as pressure ratings, temperature limitations, corrosion resistance, and compatibility with the fluid or gas being conveyed. Additionally, proper installation and regular maintenance are crucial to ensure the integrity and longevity of the fittings in the piping system.)

Product Information/Product Description/Basis Information/Specification

ASME B16.11	Forged threaded fittings:90-deg elbow,45-deg elbow,tee,cross,coupling,half-coupling,cap,square head plug,hex head plug,round head plug,hex head bushing,flush bushing,street elbows
ASME B16.11	Fogred socket weld fittings:90-deg elbow,45-deg elbow,tee,cross,coupling,half-coupling,cap
MSS SP83	Steel Pipe Unions(socket welding and threaded end)
MSS SP95	swage nipples,bull plug(ends may be threaded,beveled,plain)
MSS SP79	socket welding reducer inserts
MSS SP97	weldolets,threadolets,sockolets,flangolets,elbolet,sweepolets,saddle,nipolets,brazolets,latrolets,insertolets

Material Grades:

Carbon Steel ASME B16.11 Forged Threaded half coupling/full couplings

ASTM/ ASME A 105, ASTM/ ASME A 350 LF 2, ASTM / ASME A 53 GR. A & B, ASTM A 106 GR. A, B & C. API 5L GR. B, API 5L X 42, X 46, X 52, X 60, X 65 & X 70. ASTM / ASME A 691 GR A, B & C

ASME B16.11 Stainless Steel Forged Threaded couplings :

ASTM A182 F304, F304L, F306, F316L, F304H, F309S, F309H, F310S, F310H, F316TI, F316H, F316LN, F317, F317L, F321, F321H, F11, F22, F91, F347, F347H, F904L, ASTM A312/A403 TP304, TP304L, TP316, TP316L

Duplex & Super Duplex Steel ASME B16.11 Forged Threaded couplings:

ASTM A 182 – F 51, F53, F55 S 31803, S 32205, S 32550, S 32750, S 32760, S 32950.

ASME B16.11 Alloy Steel Forged Threaded Pipe couplings:

ASTM / ASME A 182, ASTM / ASME A 335, ASTM / ASME A 234 GR P 1, P 5, P 9, P 11, P 12, P 22, P 23, P 91, ASTM / ASME A 691 GR 1 CR, 1 1/4 CR, 2 1/4 CR, 5 CR, 9CR, 91

ASME B16.11 Copper Alloy Steel Forged Threaded half coupling/ Full couplings: 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 Threaded ASME B16.11 pipe couplings:

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)

Features /Characteristics

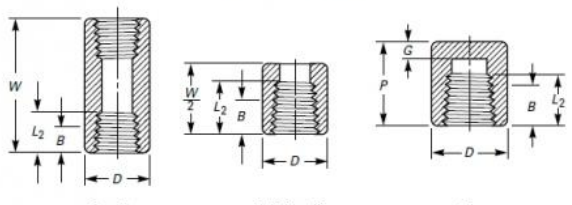
Strength and Durability: Forged pipe fittings are known for their superior strength and durability compared to fittings made through other manufacturing methods. The forging process creates a dense and compact structure that can handle high-pressure and high-temperature applications.
Leak-Free Performance: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

Threaded Fittings for Coupling, half coupling and end caps

Table 4 Threaded Fittings



Coupling Half-Coupling Cap

Nominal Pipe Size	End-to-End Couplings, W	End-to-End Caps, P		Outside Diameter, D		Minimum End Wall Thickness, G		Minimum Length of Thread [Note (1)]	
	3000 and 6000	3000	6000	3000	6000	3000	6000	B	L_2
1/8	32	19	...	16	22	4.8	...	6.4	6.7
1/4	35	25	27	19	25	4.8	6.4	8.1	10.2
3/8	38	25	27	22	32	4.8	6.4	9.1	10.4
1/2	48	32	33	28	38	6.4	7.9	10.9	13.6
3/4	51	37	38	35	44	6.4	7.9	12.7	13.9
1	60	41	43	44	57	9.7	11.2	14.7	17.3
1 1/4	67	44	46	57	64	9.7	11.2	17.0	18.0
1 1/2	79	44	48	64	76	11.2	12.7	17.8	18.4
2	86	48	51	76	92	12.7	15.7	19.0	19.2
2 1/2	92	60	64	92	108	15.7	19.0	23.6	28.9
3	108	65	68	108	127	19.0	22.4	25.9	30.5
4	121	68	75	140	159	22.4	28.4	27.7	33.0

GENERAL NOTES:
(a) Dimensions are in millimeters.
(b) Class 2000 and NPS 1/8 Class 6000 couplings, half couplings, and caps are not included in this Standard.
(c) The wall thickness away from the threaded ends shall meet the minimum wall thickness requirements of Table 2 for the appropriate NPS and Class Designation fitting.

NOTE:
(1) Dimension B is minimum length of perfect thread. The length of useful thread (B plus thread with fully formed roots and flat crests) shall not be less than L_2 (effective length of external thread) required by American National Standard for Pipe Threads (ASME B1.20.1; see para. 6.3).

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 Specificaiton Details

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 F11 Cl. 1	max. 0.25 max. 0.15 0.05 - 0.15	0.60 - 0.90 0.30 - 0.60 0.30 - 0.60	0.15 - 0.35 max. 0.50 0.50 - 1.00	0.045 0.030 0.030	0.045 0.030 0.030	4.00 - 6.00 1.00 - 1.50	max. 0.50	0.44 - 0.65 0.44 - 0.65 0.44 - 0.65
	F11 Cl. 2 / Cl. 3 F22 Cl. 1 / Cl. 3 F304 [1]	0.10 - 0.20 0.05 - 0.15 max. 0.08	0.30 - 0.80 0.30 - 0.60 max. 2.00	0.50 - 1.00 max. 0.5 max. 1.00	0.040 0.040 0.045	0.040 0.040 0.030	1.00 - 1.50 2.00 - 2.50 18.00 - 20.00	8.00 - 11.00	0.44 - 0.65 0.87 - 1.13
	F304 L [1] F316 [1] F316L [1] F321 [2]	max. 0.030 max. 0.08 max. 0.030 max. 0.08	max. 2.00 max. 2.00 max. 2.00 max. 2.00	max. 1.00 max. 1.00 max. 1.00 max. 1.00	0.045 0.045 0.045 0.045	0.030 0.030 0.030 0.030	18.00 - 20.00 16.00 - 18.00 16.00 - 18.00 17.00 - 19.00	8.00 - 13.00 10.00 - 14.00 10.00 - 15.00 9.00 - 12.00	2.00 - 3.00 2.00 - 3.00

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 $_{\text{Elongation in}}$ 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

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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