



## 6000lbs 3000lbs High Pressure Pipe Fittings Forged Steel With Socket Ends

Our Product Introduction

### Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-BS-F6
- 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 month



### Product Specification

- Standard: ANSI B16.11
- Material: A105, A105N, A350LF2, F22, SS316, SS304, DUPLEX SS, ALLOY STEE
- Rating: 2000#, 3000#, 6000#, 9000# 2000LBS 3000LBS 6000LBS 9000LBS
- Size: 1/4"-4"
- Connection: Socket Welded SW Threaded NPT BSPT BSPP
- Surface: Black, Pickling, Anti-rust Oil
- Highlight: **6000lbs High Pressure Pipe Fittings, High Pressure Pipe Fittings Forged Steel, 4in forged steel fittings**



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## Product Description

### 3000lbs 6000lbs Forged Steel High Pressure Fittings With Socket Ends

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.

**Forged SW Elbows** are used to change the direction of the flow. Elbows They are majorly available in two standard types - 90 and 45 degree angles owing to their high demand in plumbing. The 90 degree elbow is primarily used to connect hoses to water pumps, valves, and deck drains, while the 45 degree elbow is mostly used in water supply facilities, electronic and chemical industrial pipeline networks, food, air-conditioning pipelines, garden production, agriculture, and solar-energy facility.

### Product Information/Product Description/Basis Information/Specification

ASME:	ASME 16.11, MSS SP-79, MSS SP-95, 83, 95, 97, BS 3799
DIN:	DIN2605, DIN2615, DIN2616, DIN2617, DIN28011
EN:	EN10253-1, EN10253-2

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,sweeplets,saddle,nipolets,brazolets,latrolets,insertolets

Production Name	ANSI B16.11 Forged pipefittings with Socket Welded ends or Threaded ends
Types	90deg Elbow, 45deg Elbows, Street elbow, Tee, cross, full Coupling, half coupling, square Cap, square plug, Hex. Nipples, Bushing, Union, Barrel Nipple, Boss, weldolet, socketolet, threadolet etc
Size Range	1/8" 3/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4"
Threaded Types	NPT ANSI B16.25 DIN BSPT
Material	Carbon Steel: ASTM A105 ,A 182 Grade F 1, A 182 Grade F 5, A 182 Grade F 9, A 182 Grade F 11, f12, f22 A 350 Grade LF 1, A 350 Grade LF2, A 350 Grade LF 4, A 350 Grade LF6, LF8 Stainless Steel: F304(L), F316(L),SS321, SS347H, 904L DUPELX SS 2507, 2205, UNS31803, UNS32750 18Cr-10Ni-Ti 25Cr-20Ni 22Cr-5Ni-3Mo-N 25Cr-7Ni-4Mo-N 24Cr-10Ni-4Mo-V 25Cr-7Ni-3.5Mo-W-Cb 25Cr-7Ni-3.5Mo-N-Cu-W
Standard	ANSI B16.11, MSS-SP 97, JIS, etc
Pressure	2000lbs, 3000lbs, 6000lbs, 9000lbs, etc

### 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.

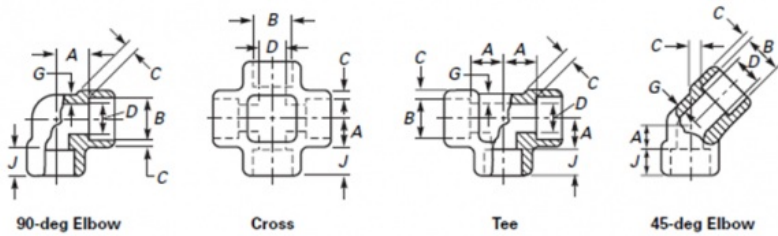
**Versatility:** Forged fittings are suitable for use in various industries such as oil and gas, petrochemicals, power generation, and chemical processing. They can handle different types of fluids, gases, and temperatures, making them versatile for diverse applications.

**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

### Dimension of socket welding Fittings for 90-Deg Elbow, Cross, Tee, 45deg elbow



Nominal Pipe Size [Note (1)]	Bore Diameter of Fittings, D [Note (1)]			Socket Wall Thickness, C [Note (2)]				Body Wall, G			Min. Depth of Socket, J	Center-to-Bottom of Socket, A								
	Socket Bore Diameter, B	Class Designation			Class Designation				Class Designation			90-deg Elbows, Tees, and Crosses			45-deg Elbows					
		3000	6000	9000	3000		6000		9000			3000	6000	9000	Class Designation			Class Designation		
					Avg.	Min.	Avg.	Min.	Avg.	Min.					3000	6000	9000	3000	6000	9000
1/8	11.2	7.6	4.8	...	3.18	3.18	3.96	3.43	...	...	2.41	3.15	...	9.5	11.0	11.0	...	8.0	8.0	...
	10.8	6.1	3.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1/4	14.6	10.0	7.1	...	3.78	3.30	4.60	4.01	...	...	3.02	3.68	...	9.5	11.0	13.5	...	8.0	8.0	...
	14.2	8.5	5.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3/8	18.0	13.3	9.9	...	4.01	3.50	5.03	4.37	...	...	3.20	4.01	...	9.5	13.5	15.5	...	8.0	11.0	...
	17.6	11.8	8.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1/2	22.2	16.6	12.5	7.2	4.67	4.09	5.97	5.18	9.35	8.18	3.73	4.78	7.47	9.5	15.5	19.0	25.5	11.0	12.5	15.5
	21.8	15.0	11.0	5.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3/4	27.6	21.7	16.3	11.8	4.90	4.27	6.96	6.04	9.78	8.56	3.91	5.56	7.82	12.5	19.0	22.5	28.5	13.0	14.0	19.0
	27.2	20.2	14.8	10.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	34.3	27.4	21.5	16.0	5.69	4.98	7.92	6.93	11.38	9.96	4.55	6.35	9.09	12.5	22.5	27.0	32.0	14.0	17.5	20.5
	33.9	25.9	19.9	14.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1 1/4	43.1	35.8	30.2	23.5	6.07	5.28	7.92	6.93	12.14	10.62	4.85	6.35	9.70	12.5	27.0	32.0	35.0	17.5	20.5	22.5
	42.7	34.3	28.7	22.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1 1/2	49.2	41.6	34.7	28.7	6.35	5.54	8.92	7.80	12.70	11.12	5.08	7.14	10.15	12.5	32.0	38.0	38.0	20.5	25.5	25.5
	48.8	40.1	33.2	27.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	61.7	53.3	43.6	38.9	6.93	6.04	10.92	9.50	13.84	12.12	5.54	8.74	11.07	16.0	38.0	41.0	54.0	25.5	28.5	28.5
	61.2	51.7	42.1	37.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2 1/2	74.4	64.2	...	...	8.76	7.67	...	...	...	...	7.01	...	...	16.0	41.0	...	...	28.5	...	...
	73.9	61.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	90.3	79.4	...	...	9.52	8.30	...	...	...	...	7.62	...	...	16.0	57.0	...	...	32.0	...	...
	89.8	76.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	115.7	103.8	...	...	10.69	9.35	...	...	...	...	8.56	...	...	19.0	66.5	...	...	41.0	...	...
	115.2	100.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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 pipe fittings 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 <sup>3 4</sup>	max. 0.4 <sup>3 4</sup>	max. 0.12 <sup>3</sup>	
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		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	8.00 - 11.00	0.87 - 1.13
	F304 <sup>1</sup>	max. 0.08	max. 2.00	max. 1.00	0.045	0.030	18.00 - 20.00		
	F304 L <sup>1</sup>	max. 0.030	max. 2.00	max. 1.00	0.045	0.030	18.00 - 20.00	8.00 - 13.00	
F316 <sup>1</sup>	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 <sup>1</sup>	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 <sup>2</sup>	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 <sup>3 4</sup>	max. 0.4 <sup>3</sup>	max. 0.12 <sup>3</sup>
	LF2 Cl. 1	max. 0.30	0.60 - 1.35	0.15 - 0.30	0.035	0.040	max. 0.3 <sup>3 4</sup>	max. 0.4 <sup>3</sup>	max. 0.12 <sup>3</sup>
	LF2 Cl. 2 LF3	max. 0.30	0.60 - 1.35	0.20 - 0.35	0.035	0.040	max. 0.3 <sup>3 4</sup>	max. 0.4 <sup>3</sup>	max. 0.12 <sup>3</sup>
	max. 0.20	max. 0.90	0.20 - 0.35	0.035	0.040	max. 0.3 <sup>3 4</sup>	3.3 - 3.7	max. 0.12 <sup>3</sup>	
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 <small>Elongation in 50 mm.</small>			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 <sup>3 4</sup>		260	22	35	197 max.
	LF3 Cl. 2	70 - 95	485 - 655	37.5 <sup>3 4</sup>		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			

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