



45deg Elbow High Pressure Pipe Fittings With Threaded NPT 2000lbs 3000lbs

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-EL-F03
- 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

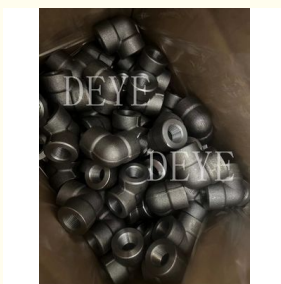


Product Specification

- Highlight: 3000lbs High Pressure Pipe Fittings,
3000lbs High Pressure Pipe Fittings,
NPT 45deg elbow



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Product Description

High Pressure 45deg Elbow With Threaded NPT 2000lbs 3000lbs

Elbows: Such pipe fittings 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

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

•DURABLES

Selected raw materials, The quality of raw materials is the top priority. Strict quality control and test to make the raw Material meets both requirements on Chemical composition and Mechanical Properties.

•PRECISION

Advanced CNC machining center and experienced technicians make the products in a precise dimension, less tolerance, bigly improve the quality of originality.

•CUSTOMIZE

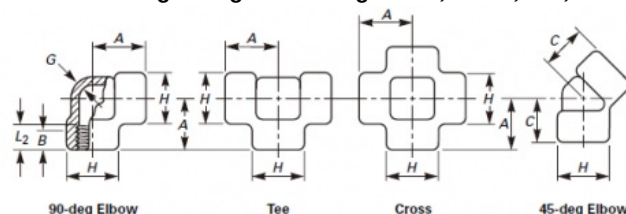
Professional Engineers can design the Forged high-pressure fittings in standard and non standard customized according to customers' requirements both on specifications and materials

•STRICT

We have completed testing equipment's here in our factory like spectrograph, hardness tester, Impact Test Equipment, CMM, ect. All these testing dates will be recorded in the testing reports and sent to our customers for checking

Technology/ Technical Data Sheets

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



Nominal Pipe Size	Center-to-End Elbows, Tees, and Crosses, A			Center-to-End 45-deg Elbow, C			Outside Diameter of Band, H			Minimum Wall Thickness, G			Min. Length of Thread [Note (1)]	
	2000	3000	6000	2000	3000	6000	2000	3000	6000	2000	3000	6000	B	L ₂
1/8	21	21	25	17	17	19	22	22	25	3.18	3.18	6.35	6.4	6.7
1/4	21	25	28	17	19	22	22	25	33	3.18	3.30	6.60	8.1	10.2
3/8	25	28	33	19	22	25	25	33	38	3.18	3.51	6.98	9.1	10.4
1/2	28	33	38	22	25	28	33	38	46	3.18	4.09	8.15	10.9	13.6
3/4	33	38	44	25	28	33	38	46	56	3.18	4.32	8.53	12.7	13.9
1	38	44	51	28	33	35	46	56	62	3.68	4.98	9.93	14.7	17.3
1 1/4	44	51	60	33	35	43	56	62	75	3.89	5.28	10.59	17.0	18.0
1 1/2	51	60	64	35	43	44	62	75	84	4.01	5.56	11.07	17.8	18.4
2	60	64	83	43	44	52	75	84	102	4.27	7.14	12.09	19.0	19.2
2 1/2	76	83	95	52	52	64	92	102	121	5.61	7.65	15.29	23.6	28.9
3	86	95	106	64	64	79	109	121	146	5.99	8.84	16.64	25.9	30.5
4	106	114	114	79	79	79	146	152	152	6.55	11.18	18.67	27.7	33.0

Note: Average of socket wall thickness a round periphery shall be no less than listed values.

The minimum values are permitted in localized areas. (All above data are for 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		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									
Gr ad es	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	18.00	10.00 - 14.00	2.00 - 3.00
	F316 L 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									
Gr ad es	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									
Gr ad es	F42 / F52 / F56 F60 / F65 / F70	max. 0.26	max. 1.4	0.15 - 0.35	0.025	0.025			

PHYSICAL PROPERTIES

ASTM		Tensile strength		Fluency limit Elongation in 50 mm.			Stress	Brinell
Designation		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		

Production Procedure

Raw Material A105& Stainless-steel bars for forged fittings



Cutting the bars to be proper length for forging



Forging Workshop



Stocks of the raw pieces without marching



Sand Blast to clean and smooth the surface



Machining process



Test the threaded to meet standards



Marking the specification and logo on forged fittings



Finished Products and Package



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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