90 Deg High Pressure Pipe Fittings Stainless Steel Socket Ends High Pressure Elbow

Basic Information

Place of Origin: CHINABrand Name: DEYE

• Certification: ISO9001:2015 PED

Model Number: PF-BS-F1Minimum Order Quantity: 10PCS

• Price: USD2-USD50 each pc as per different

materia

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

Connection: Socket Welded SW Threaded NPT BSPT

BSPP

• Size: 1/4"-4"

Surface: Black, Pickling, Anti-rust Oil

• Highlight: 90 Deg High Pressure Pipe Fittings,

High Pressure Pipe Fittings Stainless Steel,

2000# high pressure elbow fitting



Product Description

3000lbs Stainless steel Socket Ends High Pressure Elbow with 90deg 45deg

Socket Weld 90° Elbows are offered to clients with the option of customizing the size as per the individual purchasers. Socket Weld is a pipe inserted into the recessed area of a valve, fitting or flange, carbons teel /Stainless Steel Socket Weld 90° Elbows make 90° changes of direction in the run of the pipe. These ANSI B16.11 Forged Socket Weld 90° Elbows come in two

types; short radius elbow and long radius elbow. These fittings add pressure losses to the system due to impact, re-acceleration and friction. Forged high pressure fittings are commonly used in high-pressure and high-temperature applications, where their superior strength and durability are required. They are available in various shapes and sizes, including elbows, tees, crosses, couplings, unions, caps, and plugs

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

Production Name	ANSI B16.11 Forged pipefittings with Socket Welded ends or Threaded ends
	90deg Elbow, 45deg Elbows, Street elbow, Tee, cross, full Coupling, half
Types	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
	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
Material	Stainless Steel: F304(L), F316(L), SS321, SS347H, 904L DUPELX SS 2507,
	2205, UNS31803, UNS32750 18Cr-10Ni-Tl 25Cr-20Nl 22Cr-5Ni-3Mo-N
	25Cr-7Ni-4Mo-N 24Cr-lONi-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.

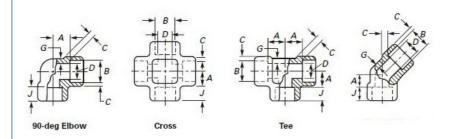
Resistance to Corrosion: Forged fittings are available in various materials such as carbon steel, stainless steel, and alloy steel, which offer excellent resistance to corrosion. The choice of material depends on the specific requirements of the application, ensuring compatibility with the transported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



	1 200 200 -	Bore Diameter of Fittings, D [Note (1)]		Socket Wall Thickness, C [Note (2)]							Body Wall, G			
	Socket Bore	Class	Design	nation			Class De	signatio	n		Class	s Design	ation	Min.
	Diameter,				30	000	60	000	90	00	3000	6000	9000	Depth of
Nominal Pipe Size	B [Note (1)]	3000	6000	9000	Avg.	Min.	Avg.	Min.	Avg.	Min.	Min.	Min.	Min.	Socket,
1/8	0.440	0.299	0.189		0.1 25	0.125	0.156	0.135			0.095	0.124		0.38
1/4	0.575 0.555	0.394	0.280	:::	0.149	0.130	0.181	0.158			0.119	0.145		0.38
3/4	0.710 0.690	0.523	0.389		0.158	0.138	0.198	0.172	***		0.126	0.158		0.38
1/2	0.875 0.855	0.652 0.592	0.494 0.434	0.282	0.184	0.161	0.235	0.204	0.368	0.3 22	0.147	0.188	0.294	0.38
1/4	1.085	0.854	0.642	0.464	0.193	0.168	0.274	0.238	0.385	0.337	0.154	0.219	0.308	0.50
1	1.350	1.079	0.845	0.629	0.224	0.196	0.312	0.273	0.448	0.392	0.179	0.250	0.358	0.50
11/4	1.695 1.675	1.410 1.350	1.190 1.130		0.239	0.208	0.312	0.273	0.478	0.418	0.191	0.250	0.382	0.50
11/2	1.935 1.915	1.640	1.368 1.308		0.250	0.218	0.351	0.307	0.500	0.438	0.200	0.281	0.400	0.50
2	2.426 2.406	2.097	1.717		0.273	0.238	0.430	0.374	0.545	0.477	0.218	0.344	0.436	0.62
23/2	2.931	2.529			0.345	0.302					0.276			0.62
3	3.560 3.535	3.128 3.008			0.375	0.327					0.300			0.62
4	4.570 4.545	4.086 3.966			0.421	0.368					0.337			0.75

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

As	STM	Analysis in %							
Designation		С	Mn	Si	Max. P	Max. S	Cr	Ni	Мо
A10	05 - 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
A18	32 - 07	-							
	L	max. 0.25	0.60 - 0.90	0.15 - 0.35	0.045	0.045			0.44 - 0.65
	F1 F5	max. 0.15	0.30 - 0.60	max. 0.50	0.030	0.030	4.00 - 6.00	max. 0.50	0.44 - 0.65
	F11 Cl. 1	0.05 - 0.15	0.30 - 0.60	0.50 - 1.00	0.030	0.030	1.00 - 1.50		0.44 - 0.65
Gr	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
ad	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 - 0.63
es	F304 ¹	max. 0.08	max. 2.00	max. 1.00	0.045	0.030	18.00 - 20.00		0.67 - 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	
A35	50 - 04								
<u></u>	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. 1 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
C3	L1 2 GI. 2 L1 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
A69	94 - 03								
Gr	F42 / F52 / F56 F60								
ad	/ F65 / F70	max. 0.26	max. 1.4	0.15 - 0.35	0.025	0.025			
es	7 F03 / F/U								

PHYSICAL PROPERTIES

ASTM Designatioin		Tensile stren	Fluency limit	Fluency limit Elongation in 50 mm.				Brinell	
		Ksi min.	MPa	Ksi min.	Ksi min.		% min.	% min.	Hardness (HB)
A105 - 0	5								
		70	485	36		250	22	30	187 max.
A182 - 0	7								
	F1	70	485	40	40		20	30	143 - 192
	F5	70	485	40	40		20	35	143 - 217
	F11 Cl. 1	60	415	30	30		20	45	121 - 174
	F11 Cl. 2	70	485	40	40		20	30	143 - 207
	F11 Cl. 3	75	515	45	45		20	30	156 - 207
Cuada-	F22 Cl. 1	60	415	30	30		20	35	170 max.
Grades	F22 Cl. 3	75	515	45	45		20	30	
	F304	751	5151	30	30		30	50	156 - 207
	F304L	702	4852	25	25		30	50	
	F316	751	5151	30	30		30	50	
	F316L	702	4852	25	25		30	50	7
	F321	751	5151	30	30		30	50	7
A350 - 0	4								
	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.
Grades	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}	37.5 ^{3 4}		22	35	197 max.
	LF3 Cl. 2	70 - 95	485 - 655	37.5 ^{3 4}	37.5 ^{3 4}		22	35	197 max.
A694 - 0	3								
	F42	60	415	42	42		20		
	F52	66	455	52	52		20		
Gradas	F56	68	470	56	56		20		
Grades	F60	75	515	60	60		20		
	F65	77	530	65		450	20	\neg	
	F70	82	565	70	70		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

SHIJIAZHUANG DEYE PIPING INDUSTRY CO., LTD Pipefittings Department)



+8613292824811



sales@deyepiping.com



piping-industry.com