



## Threaded NPT High Pressure Pipe Fittings street elbow With 3000LBS 6000LBS

Our Product Introduction

### Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-EL-F02
- 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 B16.11
- Material: A105, A105N, A350LF2, F22, SS316, SS304, DUPLEX SS, ALLOY STEEL
- Rating: 2000#, 3000#, 6000#, 9000# 2000LBS 3000LBS 6000LBS 9000LBS
- Connetion: Socket Welded SW Threaded NPT BSPT BSPP
- Size: 1/2"-4"
- Surface: Black, Pickling, Anti-rust Oil
- Highlight: Threaded High Pressure Pipe Fittings, NPT High Pressure Pipe Fittings, 6000LBS high pressure npt fittings



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## Product Description

### Threaded NPT High Pressure Pipe Fittings street elbow With 3000LBS 6000LBS

carbon steel and stainless steel thread high pressure fittings, elbow, union, tee, hex nipple, coupling, cap, bushing and so on. Natural surface, sandblasting, galvanized (hot dip galvanized, cold/electrical galvanize) or polishing finished. BSPP, BSPT, NPT, DIN thread, male and female thread, socket weld, butt weld. All materials, Stainless steel 201, Stainless steel 304, Stainless steel 316/316L, carbon steel, weld and seamless pipe. All thickness, sch10, sch20, sch40, sch80, sch160, XH, XXH and so on, pressure 150lb and 3000psi. 2000lbs, 3000lbs, 6000lbs, 9000lbs.

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

|                 |                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Production Name | NPT Street Elbow, BSPT Street elbow, 90 Street elbow, 45 street elbow ANSI B16.11 Forged pipe fittings                                                                                                                                                                                                                                                                                             |
| 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<br>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

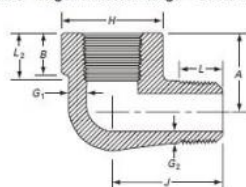
##### •STRICT

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

Table 3 Forged Threaded Fittings — Street Elbows



| Nominal<br>Pipe Size,<br>NPS | Center-to-Female<br>End Street Elb.,<br>A [Note (1)] |      |                   |      | Center-to-Male<br>End Street Elb.,<br>J [Note (2)] |      |                   |       | Outside Diameter of<br>Band, H<br>[Note (2)] |      | Minimum Wall<br>Thickness, G <sub>1</sub> |      | Minimum Wall<br>Thickness, G <sub>2</sub> [Note (3)] |      | Minimum Length<br>Internal Thread<br>[Note (4)] |      | Minimum<br>Length<br>Male Thread,<br>L |
|------------------------------|------------------------------------------------------|------|-------------------|------|----------------------------------------------------|------|-------------------|-------|----------------------------------------------|------|-------------------------------------------|------|------------------------------------------------------|------|-------------------------------------------------|------|----------------------------------------|
|                              | Class Designation                                    |      | Class Designation |      | Class Designation                                  |      | Class Designation |       | Class Designation                            |      | Class Designation                         |      | Class Designation                                    |      | Class Designation                               |      |                                        |
|                              | 3000                                                 | 6000 | 3000              | 6000 | 3000                                               | 6000 | 3000              | 6000  | 3000                                         | 6000 | 3000                                      | 6000 | 3000                                                 | 6000 | 3000                                            | 6000 |                                        |
|                              |                                                      |      |                   |      |                                                    |      |                   |       |                                              |      |                                           |      |                                                      |      |                                                 |      |                                        |
| 1/8                          | 19                                                   | 22   | 25                | 32   | 19                                                 | 25   | 3.18              | 5.08  | 2.74                                         | 4.22 | 6.4                                       | 6.7  | 10                                                   |      |                                                 |      |                                        |
| 1/4                          | 22                                                   | 25   | 32                | 38   | 25                                                 | 32   | 3.30              | 5.66  | 3.22                                         | 5.28 | 8.1                                       | 10.2 | 11                                                   |      |                                                 |      |                                        |
| 3/8                          | 25                                                   | 28   | 38                | 41   | 32                                                 | 38   | 3.51              | 6.98  | 3.50                                         | 5.59 | 9.1                                       | 10.4 | 13                                                   |      |                                                 |      |                                        |
| 1/2                          | 28                                                   | 35   | 41                | 48   | 38                                                 | 44   | 4.09              | 8.15  | 4.16                                         | 6.53 | 10.9                                      | 13.6 | 14                                                   |      |                                                 |      |                                        |
| 3/4                          | 35                                                   | 44   | 48                | 57   | 44                                                 | 51   | 4.32              | 8.53  | 4.38                                         | 6.86 | 12.7                                      | 13.9 | 16                                                   |      |                                                 |      |                                        |
| 1                            | 44                                                   | 51   | 57                | 66   | 51                                                 | 62   | 4.98              | 9.93  | 5.56                                         | 7.95 | 14.7                                      | 17.3 | 19                                                   |      |                                                 |      |                                        |
| 1 1/4                        | 51                                                   | 54   | 66                | 71   | 62                                                 | 70   | 5.28              | 10.59 | 5.56                                         | 8.48 | 17.0                                      | 18.0 | 21                                                   |      |                                                 |      |                                        |
| 1 1/2                        | 54                                                   | 64   | 71                | 84   | 70                                                 | 84   | 5.56              | 11.07 | 6.25                                         | 8.89 | 17.8                                      | 18.4 | 21                                                   |      |                                                 |      |                                        |
| 2                            | 64                                                   | 83   | 84                | 105  | 84                                                 | 102  | 7.14              | 12.09 | 7.64                                         | 9.70 | 19.0                                      | 19.2 | 22                                                   |      |                                                 |      |                                        |

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 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           |                     | 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 <sup>3 4</sup>    | max. 0.4 <sup>3 4</sup> | max. 0.12 <sup>3</sup>     |
| A182 - 07      |                     |                          |                            |                          |                |                |                            |                         |                            |
| Gr<br>ad<br>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<br>0.05 - 0.15 | 0.30 - 0.60<br>0.30 - 0.60 | max. 0.50<br>0.50 - 1.00 | 0.030<br>0.030 | 0.030<br>0.030 | 1.00 - 1.50                | max. 0.50               | 0.44 - 0.65<br>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<br>2.00 - 2.50 |                         | 0.44 - 0.65                |
|                | F22 Cl. 1 / Cl. 3   | 0.05 - 0.15              | 0.30 - 0.60                | max. 0.5                 | 0.040          | 0.040          | 18.00 -<br>20.00           | 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          |                            |                         |                            |
|                | F304 L <sup>1</sup> | max. 0.030               | max. 2.00                  | max. 1.00                | 0.045          | 0.030          | 18.00 -<br>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 -<br>18.00           | 10.00 -<br>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 -<br>18.00           | 10.00 -<br>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 -<br>19.00           | 9.00 - 12.00            |                            |
|                |                     |                          |                            |                          |                |                |                            |                         |                            |
|                |                     |                          |                            |                          |                |                |                            |                         |                            |
|                |                     |                          |                            |                          |                |                |                            |                         |                            |
| A350 - 04      |                     |                          |                            |                          |                |                |                            |                         |                            |
| Gr<br>ad<br>es | 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      |                     |                          |                            |                          |                |                |                            |                         |                            |
| Gr<br>ad<br>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                                 | 205 | 25     | 38     | 197 max.      |
|             | LF2 Cl. 1 | 70 - 95          | 485 - 655 | 36                                 | 250 | 22     | 30     | 197 max.      |
|             | LF2 Cl. 2 | 70 - 95          | 485 - 655 | 36                                 | 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 |

### Products for shipment



### Our Service

1. Technical support
2. Raw Material Quality control.
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4. Final Test includes Surface, Dimension, PT Test, RT test, ultrasonic Test
5. Test Report each shipment
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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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