



## SS316 3000lbs Forged High Pressure Couplings With Socket Weld Ends

Our Product Introduction

### Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-BS-F9
- 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 B 16.11
- Material: A105, A105N, A350LF2, F22, SS316, SS304, DUPLEX SS, ALLOY STEEL
- Rating: 2000#, 3000#, 6000#, 9000#
- Size: 1/4"-4"
- Connection: Socket Welded SW Threaded NPT BSPT BSPP
- Surface: Black, Pickling, Anti-rust Oil
- Highlight: **SS316 High Pressure Couplings, Forged High Pressure Couplings, High pressure pipe couplings**

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## Product Description

### Forged SS316 3000lbs High Pressure Couplings With Socket Weld Ends

The 3000LBS coupling is a pipe fitting used to stop leakages Couplings in broken or damaged pipes. The pipes to be connected should be of the same diameter. The two kinds of couplings used in plumbing are regular coupling and slip coupling. The regular coupling is arranged between the two pipes to prevent further leakages with the help of rubber seals or gaskets on the both sides. The slip coupling itself contains two pipes to repair the damaged lengthy pipes.

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

|                                                                    |                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification                                                      | Forged stainless steel fittings: ASTM A182, ASTM SA182 S/W & SCD (NPT / BSP / BSPT)                                                                                                                                                                                                          |
|                                                                    | Carbon steel forged fittings: A-105, S/W & SCD (NPT / BSP / BSPT)                                                                                                                                                                                                                            |
|                                                                    | Mild Steel Forged Fitting: IS BS ASTM ANSI B16.11 S/W & SCD                                                                                                                                                                                                                                  |
|                                                                    | Nickel Alloy forged fittings: ASTM B366 S/W & SCD                                                                                                                                                                                                                                            |
|                                                                    | Non Ferrous metal forged fittings: IS BS ASTM S/W & SCD                                                                                                                                                                                                                                      |
| Forged Screwed-Threaded Coupling Dimension                         | ANSI B 16.11                                                                                                                                                                                                                                                                                 |
| Forged Screwed-Threaded Coupling Size                              | 1/4" NB TO 4" NB                                                                                                                                                                                                                                                                             |
| Forged Screwed-Threaded Coupling Class                             | 2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS                                                                                                                                                                                                                                                       |
| Forged steel fittings Range                                        | Coupling, Plug, Socket, Bushing, Elbow, Tee, Nipple, Union, Threading Outlet, Welding Outlet, Socket Weld Outlet.                                                                                                                                                                            |
| Stainless Steel Forged Screwed-Threaded Coupling                   | ASTM A182 F304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L                                                                                                                                                                                                                              |
| Duplex Steel Forged Screwed-Threaded Coupling                      | ASTM A 182 –F51 / F52 / F53 / F54 / F55 / F57 / F59 / F60 / F61 S 31803, S 32205, S 32550, S 32750, S 32760                                                                                                                                                                                  |
| Carbon Steel Forged Screwed-Threaded Coupling                      | ASTM/ ASME A 105, ASTM/ ASME A 350 LF 2                                                                                                                                                                                                                                                      |
| Alloy Steel Forged Screwed-Threaded Coupling                       | ASTM / ASME A 182 GR F5, F 9, F 11, F 12, F 22, F 91.                                                                                                                                                                                                                                        |
| Copper Alloys Forged Screwed-Threaded Full coupling/ Half Coupling | 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 Screwed-Threaded High Pressure Coupling        | 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) |
| Low temperature steel:                                             | A522 A707 Grade L 1-L 2-L 3-L 4-L 5-L 6-L 7-L 8                                                                                                                                                                                                                                              |
| High performance steel:                                            | A694 F 42-F 46-F 48-F 50-F 52-F 56-F 60-F 65-F 70                                                                                                                                                                                                                                            |

#### 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.

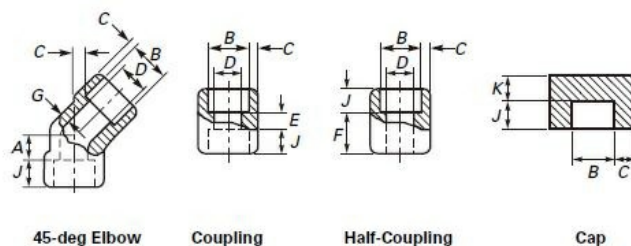
**Versatility:** Forged fittings are suitable for use in various industries such as oil and gas, petrochemicals, power generation, and chemical processing. They can handle different types of fluids, gases, and temperatures, making them versatile for diverse applications.

**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

## Socket Welding Forged Pipefittings for Couplings, Half-couplings and End Caps



| Nominal<br>Pipe Size | Min.<br>Depth of<br>Socket,<br>J | Center-to-Bottom of Socket, A       |      |      |      |              |                   |      | End Wall Thickness,<br>K <sub>min</sub> |      |                   |      |      |      |      |                   |  |  |   |  |  |
|----------------------|----------------------------------|-------------------------------------|------|------|------|--------------|-------------------|------|-----------------------------------------|------|-------------------|------|------|------|------|-------------------|--|--|---|--|--|
|                      |                                  | 90-deg Elbows,<br>Tees, and Crosses |      |      |      |              |                   |      | 45-deg Elbows                           |      |                   |      |      |      |      | Class Designation |  |  |   |  |  |
|                      |                                  | Class Designation                   |      |      |      |              |                   |      | Laying Lengths                          |      | Tolerances, ±     |      |      |      |      |                   |  |  |   |  |  |
|                      |                                  | Class Designation                   |      |      |      |              |                   |      | Couplings, E                            |      | Half Couplings, F |      | A    |      |      | E                 |  |  | F |  |  |
|                      |                                  | Class Designation                   |      |      |      |              |                   |      | Couplings, E                            |      | Half Couplings, F |      | A    |      |      | E                 |  |  | F |  |  |
| 3000                 | 6000                             | 9000                                | 3000 | 6000 | 9000 | Couplings, E | Half Couplings, F | A    | E                                       | F    | 3000              | 6000 | 9000 |      |      |                   |  |  |   |  |  |
| ⅜                    | 0.38                             | 0.44                                | 0.44 | ...  | 0.31 | 0.31         | ...               | 0.25 | 0.62                                    | 0.03 | 0.06              | 0.03 | 0.19 | 0.25 | ...  |                   |  |  |   |  |  |
| ¼                    | 0.38                             | 0.44                                | 0.53 | ...  | 0.31 | 0.31         | ...               | 0.25 | 0.62                                    | 0.03 | 0.06              | 0.03 | 0.19 | 0.25 | ...  |                   |  |  |   |  |  |
| ⅜                    | 0.38                             | 0.53                                | 0.62 | ...  | 0.31 | 0.44         | ...               | 0.25 | 0.69                                    | 0.06 | 0.12              | 0.06 | 0.19 | 0.25 | ...  |                   |  |  |   |  |  |
| ½                    | 0.38                             | 0.62                                | 0.75 | 1.00 | 0.44 | 0.50         | 0.62              | 0.38 | 0.88                                    | 0.06 | 0.12              | 0.06 | 0.25 | 0.31 | 0.44 |                   |  |  |   |  |  |
| ¾                    | 0.50                             | 0.75                                | 0.88 | 1.12 | 0.50 | 0.56         | 0.75              | 0.38 | 0.94                                    | 0.06 | 0.12              | 0.06 | 0.25 | 0.31 | 0.50 |                   |  |  |   |  |  |
| 1                    | 0.50                             | 0.88                                | 1.06 | 1.25 | 0.56 | 0.69         | 0.81              | 0.50 | 1.12                                    | 0.08 | 0.16              | 0.08 | 0.38 | 0.44 | 0.56 |                   |  |  |   |  |  |
| 1¼                   | 0.50                             | 1.06                                | 1.25 | 1.38 | 0.69 | 0.81         | 0.88              | 0.50 | 1.19                                    | 0.08 | 0.16              | 0.08 | 0.38 | 0.44 | 0.56 |                   |  |  |   |  |  |
| 1½                   | 0.50                             | 1.25                                | 1.50 | 1.50 | 0.81 | 1.00         | 1.00              | 0.50 | 1.25                                    | 0.08 | 0.16              | 0.08 | 0.44 | 0.50 | 0.62 |                   |  |  |   |  |  |
| 2                    | 0.62                             | 1.50                                | 1.62 | 2.12 | 1.00 | 1.12         | 1.12              | 0.75 | 1.62                                    | 0.08 | 0.16              | 0.08 | 0.50 | 0.62 | 0.75 |                   |  |  |   |  |  |
| 2½                   | 0.62                             | 1.62                                | ...  | ...  | 1.12 | ...          | ...               | 0.75 | 1.69                                    | 0.10 | 0.20              | 0.10 | 0.62 | 0.75 | ...  |                   |  |  |   |  |  |
| 3                    | 0.62                             | 2.25                                | ...  | ...  | 1.25 | ...          | ...               | 0.75 | 1.75                                    | 0.10 | 0.20              | 0.10 | 0.75 | 0.88 | ...  |                   |  |  |   |  |  |
| 4                    | 0.75                             | 2.62                                | ...  | ...  | 1.62 | ...          | ...               | 0.75 | 1.88                                    | 0.10 | 0.20              | 0.10 | 0.88 | 1.12 | ...  |                   |  |  |   |  |  |

|        |                                 |           |          |             |       |       |  |  |  |
|--------|---------------------------------|-----------|----------|-------------|-------|-------|--|--|--|
| Grades | 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<br>Elongation in 50 mm. |     |        | Stress | Brinell          |          |
|-------------|-----------|------------------|-----------|---------------------------------------|-----|--------|--------|------------------|----------|
| Designation |           | Ksi min.         | MPa       | Ksi min.                              | MPa | % min. | % min. | Hardness<br>(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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