



## SAF2507 Duplex SS Pipe Reducer SCH40S SCH80S SCH160S

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: DEYE
- Certification: ISO9001: 2015
- Model Number: PF-EL-S-01
- Minimum Order Quantity: 10pcs
- Price: USD 2-100 dollars for SS36L Reducers
- Packaging Details: Ply-Wooden Cases, Pallets , cartons
- Delivery Time: 10 work days
- Supply Ability: 25 tons for one month



### Product Specification

- Material: SS316/SS316L, SS304/SS304L, SS321, UNS31803, UNS32750
- Connection: Butt Welded BW
- Thickness: Sch5s, Sch10s, Sch40s, Sch80s, Sch160s, Xs, Xxs
- Surface: Pickling, Polish
- Highlight: SAF2507 ss pipe reducer, ss pipe reducer SCH40S, SCH160S stainless steel pipe reducer



### More Images



## Product Description

Duplex SS SAF2507 Stainless Steel Pipe Fittings With Sch40s SCH80S, SCH160S

**Stainless Steel con. /Ecc. Reducer:** This pipe fitting is used to reduce the flow size of the pipe from the bigger to smaller one. There are two kinds of reducers- concentric reducer and eccentric reducer. Reducer The former one is in the shape of a cone used for gradual reducing of the size of the pipe. The latter one has its one edge facing the mouth of the connecting pipe reducing the chances of air accumulation.

### Products Information/Specification:

|                |                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name   | Seamless and welded SS Pipe Fitting with butt welding ends as per standard ANSI B16.9                                                                        |
| Types          | Con. Reducers, Ecc. reducers, LR Elbows, SR Elbow, 180deg Returns, Bends, Reducing Elbow, Straight Tee, Equal Tee, Y Tee, caps, Stub Ends,                   |
| Size           | 1/2"-72" DN15-DN1800                                                                                                                                         |
| Wall Thickness | From low thickness to higher thickness<br>SCH5S, SCH10S, SCH20S, SCH30, STD, SCH40S, SCH60, XS, SCH80S, SCH100, SCH120, SCH160S, XXS, DIN, SGP JIS thickness |
| Standard       | ASTMA312, ASTM AWP40, ASME, A234WPB A420, ANSI B16.9/B16.28/B16.25                                                                                           |
|                | JIS B2311-1997/2312, JIS B2311/B2312, DIN 2605-1/2617/2615, GB 12459-99, EN Standard etc.                                                                    |
| Material       | Stainless Steel 304, 304L, 304H, 316, 316L, 316H, 310, SS321, SS321H, 347, 347H, 904L                                                                        |
|                | Duplex SS 2507, DSS2205, UNS31803 UNS32750                                                                                                                   |
|                | 1.4301, 1.4306, 1.4401, 1.4435, 1.4406, 1.4404, 1.4462, 1.4410, 1.4501                                                                                       |
|                | Carbon Steel A234 WPB, WP5, WP9, WP11, WP22, A420WPL6, A420WPL8                                                                                              |
|                | ST37.0, ST35.8, ST37.2, ST35.4/8, ST42, ST45, ST52, ST52.4                                                                                                   |
|                | STP G38, STP G42, STPT42, STB42, STS42, STPT49, STS49                                                                                                        |
| Surface        | Sandblast, acid pickling, Polished                                                                                                                           |

### Features /Characteristics

- Buttweld fittings are available in multiple shapes (elbows, tees, reducers, crosses, caps, stub ends), material grades (carbon, high-yield carbon, low-alloy, stainless, duplex, and nickel alloys) and dimensions (2 to 24 inches in seamless or welded, 26"-72" in welded).
- Buttweld fittings are pipe fittings used to change the pathway of a pipeline (elbows), reduce/increase the pipe bore size (reducers), branch (tees, cross) or blind a pipeline (butt weld cap)
- The key specifications for buttweld fittings are the ASME B16.9 (carbon and alloy fittings) and the MSS SP 43 (that integrates ASME B16.9 for stainless steel, duplex, and nickel alloy BW fittings).
- butt weld pipe fittings are sold as SCH105S, SCH10S, SCH20S, SCH40S, STD, SCH40, SCH80S, SCH80, SCH160S, XXS
- Welded butt weld fittings are more common in stainless steel due to cost advantage. Sch 10S, SCH40S SS fittings are also more common in stainless steel butt weld fittings.
- Common material for butt weld fittings are A234 WPB, High Yield Carbon Steel, Stainless Steel 304 and 316 and Nickel Alloys.
- Welded pipe fittings in carbon steel and stainless steel are the joining components that make possible the assembly of valves, pipes and equipment onto the piping system.

### Technology/ Technical Data Sheets

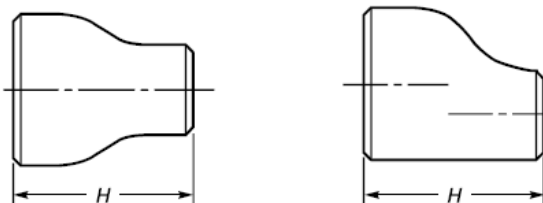
#### Thickness List for pipe fittings ANSI B16.9

Unit: mm

| Pipe<br>Size DN<br>(in) | Outside<br>Diameter | Nominal Wall Thickness |        |       |       |        |      |       |       |        |      |       |        |        |        |        |      |
|-------------------------|---------------------|------------------------|--------|-------|-------|--------|------|-------|-------|--------|------|-------|--------|--------|--------|--------|------|
|                         |                     | Sch5s                  | Sch10S | Sch20 | Sch30 | Sch40s | STD  | Sch40 | Sch60 | Sch80s | XS   | Sch80 | Sch100 | Sch120 | Sch140 | Sch160 | XXS  |
| 1/8                     | 10.3                | —                      | 1.24   | —     | —     | 1.73   | 1.73 | 1.73  | —     | 2.41   | 2.41 | 2.41  | —      | —      | —      | —      | —    |
| 1/4                     | 13.7                | —                      | 1.65   | —     | —     | 2.24   | 2.24 | 2.24  | —     | 3.02   | 3.02 | 3.02  | —      | —      | —      | —      | —    |
| 3/8                     | 17.1                | —                      | 1.65   | —     | —     | 2.31   | 2.31 | 2.31  | —     | 3.20   | 3.20 | 3.20  | —      | —      | —      | —      | —    |
| 1/2                     | 21.3                | 1.65                   | 2.11   | —     | —     | 2.77   | 2.77 | 2.77  | —     | 3.73   | 3.73 | 3.73  | —      | —      | —      | 4.78   | 7.47 |
| 3/4                     | 26.7                | 1.65                   | 2.11   | —     | —     | 2.87   | 2.87 | 2.87  | —     | 3.91   | 3.91 | 3.91  | —      | —      | —      | 5.56   | 7.82 |
| 1                       | 33.4                | 1.65                   | 2.77   | —     | —     | 3.38   | 3.38 | 3.38  | —     | 4.55   | 4.55 | 4.55  | —      | —      | —      | 6.35   | 9.09 |
| 1 1/4                   | 42.2                | 1.65                   | 2.77   | —     | —     | 3.56   | 3.56 | 3.56  | —     | 4.85   | 4.85 | 4.85  | —      | —      | —      | 6.35   | 9.70 |

|       |        |      |      |       |       |      |      |       |       |       |       |       |       |       |       |       |       |
|-------|--------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 1/2 | 48.3   | 1.65 | 2.77 | —     | —     | 3.68 | 3.68 | 3.68  | —     | 5.08  | 5.08  | 5.08  | —     | —     | —     | 7.14  | 10.15 |
| 2     | 60.3   | 1.65 | 2.77 | —     | —     | 3.91 | 3.91 | 3.91  | —     | 5.54  | 5.54  | 5.54  | —     | —     | —     | 8.74  | 11.07 |
| 2 1/2 | 73.0   | 2.11 | 3.05 | —     | —     | 5.16 | 5.16 | 5.16  | —     | 7.01  | 7.01  | 7.01  | —     | —     | —     | 9.53  | 14.02 |
| 3     | 88.9   | 2.11 | 3.05 | —     | —     | 5.49 | 5.49 | 5.49  | —     | 7.62  | 7.62  | 7.62  | —     | —     | —     | 11.13 | 15.24 |
| 3 1/2 | 101.6  | 2.11 | 3.05 | —     | —     | 5.74 | 5.74 | 5.74  | —     | 8.08  | 8.08  | 8.08  | —     | —     | —     | —     | —     |
| 4     | 114.3  | 2.11 | 3.05 | —     | —     | 6.02 | 6.02 | 6.02  | —     | 8.56  | 8.56  | 8.56  | —     | 11.13 | —     | 13.49 | 17.12 |
| 5     | 141.3  | 2.77 | 3.40 | —     | —     | 6.55 | 6.55 | 6.55  | —     | 9.53  | 9.53  | 9.53  | —     | 12.70 | —     | 15.88 | 19.05 |
| 6     | 168.3  | 2.77 | 3.40 | —     | —     | 7.11 | 7.11 | 7.11  | —     | 10.97 | 10.97 | 10.97 | —     | 14.27 | —     | 18.26 | 21.95 |
| 8     | 219.1  | 2.77 | 3.76 | 6.35  | 7.04  | 8.18 | 8.18 | 8.18  | 10.31 | 12.70 | 12.70 | 12.70 | 15.09 | 18.26 | 20.62 | 23.01 | 22.23 |
| 10    | 273.1  | 3.40 | 4.19 | 6.35  | 7.80  | 9.27 | 9.27 | 9.27  | 12.70 | 12.70 | 12.70 | 15.09 | 18.26 | 21.44 | 25.40 | 28.58 | 25.40 |
| 12    | 323.9  | 3.96 | 4.57 | 6.35  | 8.38  | 9.53 | 9.53 | 10.31 | 14.27 | 12.70 | 12.70 | 17.48 | 21.44 | 25.40 | 28.58 | 33.32 | 25.40 |
| 14    | 355.6  | 3.96 | 4.78 | 7.92  | 9.53  | —    | 9.53 | 11.13 | 15.09 | —     | 12.70 | 19.05 | 23.83 | 27.79 | 31.75 | 35.71 | —     |
| 16    | 406.4  | 4.19 | 4.78 | 7.92  | 9.53  | —    | 9.53 | 12.70 | 16.66 | —     | 12.70 | 21.44 | 26.19 | 30.96 | 36.53 | 40.49 | —     |
| 18    | 457.2  | 4.19 | 4.78 | 7.92  | 11.13 | —    | 9.53 | 14.27 | 19.05 | —     | 12.70 | 23.83 | 29.36 | 34.96 | 39.67 | 45.24 | —     |
| 20    | 508.0  | 4.78 | 5.54 | 9.53  | 12.70 | —    | 9.53 | 15.09 | 20.62 | —     | 12.70 | 26.19 | 32.54 | 38.10 | 44.45 | 50.01 | —     |
| 22    | 558.8  | 4.78 | 5.54 | 9.53  | 12.70 | —    | 9.53 | —     | 22.23 | —     | 12.70 | 28.58 | 34.93 | 41.28 | 47.63 | 53.98 | —     |
| 24    | 609.6  | 5.54 | 6.35 | 9.53  | 14.27 | —    | 9.53 | 17.48 | 24.61 | —     | 12.70 | 30.96 | 38.89 | 46.02 | 52.37 | 59.54 | —     |
| 26    | 660.4  | —    | —    | 12.70 | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 28    | 711.2  | —    | —    | 12.70 | 15.88 | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 30    | 762.0  | 6.35 | 7.92 | 12.70 | 15.88 | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 32    | 812.8  | —    | —    | 12.70 | 15.88 | —    | 9.53 | 17.48 | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 34    | 863.6  | —    | —    | 12.70 | 15.88 | —    | 9.53 | 17.48 | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 36    | 914.4  | —    | —    | 12.70 | 15.88 | —    | 9.53 | 17.48 | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 38    | 965.2  | —    | —    | —     | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 40    | 1016.0 | —    | —    | —     | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 42    | 1066.8 | —    | —    | —     | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 44    | 1117.6 | —    | —    | —     | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 46    | 1168.4 | —    | —    | —     | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |
| 48    | 1219.2 | —    | —    | —     | —     | —    | 9.53 | —     | —     | —     | 12.70 | —     | —     | —     | —     | —     | —     |

### Dimensions of Reducers



| Nominal Pipe Size (NPS) | Outside Diameter at Bevel |           | End-to-End, H | Size (NPS) | Outside Diameter at Bevel |           | End-to-End, H |
|-------------------------|---------------------------|-----------|---------------|------------|---------------------------|-----------|---------------|
|                         | Large End                 | Small End |               |            | Large End                 | Small End |               |
| 3/4 x 1/2               | 26.7                      | 21.3      | 38            | 5X4        | 141.3                     | 114.3     | 127           |
| 3/4 x 3/8               | 26.7                      | 17.3      | 38            | 5 x 3/2    | 141.3                     | 101.6     | 127           |
| 1 X 3/4                 | 33.4                      | 26.7      | 51            | 5X3        | 141.3                     | 88.9      | 127           |
| 1 x 1/2                 | 33.4                      | 21.3      | 51            | 5 x 2 1/2  | 141.3                     | 73.0      | 127           |
| 1-1/4 X 1               | 42.2                      | 33.4      | 51            | 5X2        | 141.3                     | 60.3      | 127           |
| 1-1/4 X 3/4             | 42.2                      | 26.7      | 51            | 6X5        | 168.3                     | 141.3     | 140           |
| 1-1/4 x 1/2             | 42.2                      | 21.3      | 51            | 6X4        | 168.3                     | 114.3     | 140           |
| 1-1/2 x 1-1/4           | 48.3                      | 42.2      | 64            | 6 x 3 1/2  | 168.3                     | 101.6     | 140           |
| 1-1/2 X 1               | 48.3                      | 33.4      | 64            | 6x3        | 168.3                     | 88.9      | 140           |
| 1-1/2X3/4               | 48.3                      | 26.7      | 64            | 6 x 2 7/8  | 168.3                     | 73.0      | 140           |
| 1-1/2X1/2               | 48.3                      | 21.3      | 64            | 8x6        | 219.1                     | 168.3     | 152           |
| 2 X 1-1/2               | 60.3                      | 48.3      | 76            | 8X5        | 219.1                     | 141.3     | 152           |
| 2 X 1-1/4               | 60.3                      | 42.2      | 76            | 8X4        | 219.1                     | 114.3     | 152           |
| 2X1                     | 60.3                      | 33.4      | 76            | 8 x 3-1/2  | 219.1                     | 101.6     | 152           |
| 2 X 3/4                 | 60.3                      | 26.7      | 76            | 10 X 8     | 273.0                     | 219.1     | 178           |
| 2-1/2 X 2               | 73.0                      | 60.3      | 89            | 10 x 6     | 273.0                     | 168.3     | 178           |
| 2-1/2 x 1-1/2           | 73.0                      | 48.3      | 89            | 10 x 5     | 273.0                     | 141.3     | 178           |
| 2-1/2 X 1-1/4           | 73.0                      | 42.2      | 89            | 10 x 4     | 273.0                     | 114.3     | 178           |
| 2-1/2 X 1               | 73.0                      | 33.4      | 89            | 12 x 10    | 323.8                     | 273.0     | 203           |
| 3 X 2-1/2               | 88.9                      | 73.0      | 89            | 12 x 8     | 323.8                     | 219.1     | 203           |
| 3x2                     | 88.9                      | 60.3      | 89            | 12 x 6     | 323.8                     | 168.3     | 203           |
| 3 x 1-1/2               | 88.9                      | 48.3      | 89            | 12 x 5     | 323.8                     | 141.3     | 203           |
| 3 x 1-1/4               | 88.9                      | 42.2      | 89            | 14 x 12    | 355.6                     | 323.8     | 330           |
| 3-1/2 x 3               | 101.6                     | 88.9      | 102           | 14 X 10    | 355.6                     | 273.0     | 330           |
| 3-1/2x 2-1/2            | 101.6                     | 73.0      | 102           | 14 X 8     | 355.6                     | 219.1     | 330           |
| 3-1/2 X 2               | 101.6                     | 60.3      | 102           | 14 x 6     | 355.6                     | 168.3     | 330           |
| 3-1/2 x 1-1/2           | 101.6                     | 48.3      | 102           | 16 x 14    | 406.4                     | 355.6     | 356           |
| 3-1/2x 1-1/4            | 101.6                     | 42.2      | 102           | 16 x 12    | 406.4                     | 323.8     | 356           |

|           |       |       |     |         |       |       |     |
|-----------|-------|-------|-----|---------|-------|-------|-----|
| 4 x 3-1/2 | 114.3 | 101.6 | 102 | 16 x 10 | 406.4 | 273.0 | 356 |
| 4X3       | 114.3 | 88.9  | 102 | 16 x 8  | 406.4 | 219.1 | 356 |
| 4 X 2-1/2 | 114.3 | 73.0  | 102 | 18 x 16 | 457   | 406.4 | 381 |
| 4X2       | 114.3 | 60.3  | 102 | 18 x 14 | 457   | 355.6 | 381 |
| 4 x1-1/2  | 114.3 | 48.3  | 102 | 18 x 12 | 457   | 323.8 | 381 |
|           |       |       |     | 18 x 10 | 457   | 273.0 | 381 |

| Nominal<br>Pipe Size<br>(NPS) | Outside Diameter at<br>Bevel |           | End-to-<br>End, H | Nominal<br>Pipe Size<br>(NPS) | Outside Diameter at<br>Bevel |           | End-to-End,<br>H |
|-------------------------------|------------------------------|-----------|-------------------|-------------------------------|------------------------------|-----------|------------------|
|                               | Large End                    | Small End |                   |                               | Large End                    | Small End |                  |
| 20 X 18                       | 508                          | 457.0     | 508               | 36 x 34                       | 914                          | 864       | 610              |
| 20 X 16                       | 508                          | 406.4     | 508               | 36 x 32                       | 914                          | 813       | 610              |
| 20 x 14                       | 508                          | 355.6     | 508               | 36 x 30                       | 914                          | 762       | 610              |
| 20 x 12                       | 508                          | 323.8     | 508               | 36 x 26                       | 914                          | 660       | 610              |
|                               |                              |           |                   | 36 x 24                       | 914                          | 610       | 610              |
| 22 X 20                       | 559                          | 508.0     | 508               |                               |                              |           |                  |
| 22 X 18                       | 559                          | 457.0     | 508               | 38 x 36                       | 965                          | 914       | 610              |
| 22 x 16                       | 559                          | 406.4     | 508               | 38 x 34                       | 965                          | 864       | 610              |
| 22 X 14                       | 559                          | 355.4     | 508               | 38 X 32                       | 965                          | 813       | 610              |
|                               |                              |           |                   | 38 x 30                       | 965                          | 762       | 610              |
|                               |                              |           |                   | 38 X 28                       | 965                          | 711       | 610              |
| 24 X 22                       | 610                          | 559.0     | 508               | 38 x 26                       | 965                          | 660       | 610              |
| 24 X 20                       | 610                          | 508.0     | 508               |                               |                              |           |                  |
| 24 x 18                       | 610                          | 457.0     | 508               | 40 x 38                       | 1 016                        | 965       | 610              |
| 24 X 16                       | 610                          | 406.4     | 508               | 40 x 36                       | 1 016                        | 914       | 610              |
|                               |                              |           |                   | 40 X 34                       | 1 016                        | 864       | 610              |
| 26 x 24                       | 660                          | 610.0     | 610               | 40 X 32                       | 1 016                        | 813       | 610              |
| 26 X 22                       | 660                          | 559.0     | 610               | 40 x 30                       | 1 016                        | 762       | 610              |
| 26 X 20                       | 660                          | 508.0     | 610               |                               |                              |           |                  |
| 26 X 18                       | 660                          | 457.0     | 610               | 42 X 40                       | 1 067                        | 1 016     | 610              |
|                               |                              |           |                   | 42 X 38                       | 1 067                        | 965       | 610              |
| 28 X 26                       | 711                          | 660.0     | 610               | 42 x 36                       | 1 067                        | 914       | 610              |
| 28 X 24                       | 711                          | 610.0     | 610               | 42 X 34                       | 1 067                        | 864       | 610              |
| 28 x 20                       | 711                          | 508.0     | 610               | 42 X 32                       | 1 067                        | 813       | 610              |
| 28 X 18                       | 711                          | 457.0     | 610               | 42 X 30                       | 1 067                        | 762       | 610              |
| 30 X 28                       | 762                          | 711.0     | 610               | 44 X 42                       | 1 118                        | 1 067     | 610              |
| 30 X 26                       | 762                          | 660.0     | 610               | 44 X 40                       | 1 118                        | 1 016     | 610              |
| 30 X 24                       | 762                          | 610.0     | 610               | 44 X 38                       | 1 118                        | 965       | 610              |
| 30 X 20                       | 762                          | 508.0     | 610               | 44 X 36                       | 1 118                        | 914       | 610              |
| 32 X 30                       | 813                          | 762.0     | 610               | 46 X 44                       | 1 168                        | 1 118     | 711              |
| 32 X 28                       | 813                          | 711.0     | 610               | 46 X 42                       | 1 168                        | 1 067     | 711              |
| 32 x 26                       | 813                          | 660.0     | 610               | 46 x 40                       | 1 168                        | 1 016     | 711              |
| 32 x 24                       | 813                          | 610.0     | 610               | 46 x 38                       | 1 168                        | 965       | 711              |
| 34 x 32                       | 864                          | 813.0     | 610               | 48 x 46                       | 1 219                        | 1 168     | 711              |
| 34 X 30                       | 864                          | 762.0     | 610               | 48 X 44                       | 1 219                        | 1 118     | 711              |
| 34 x 26                       | 864                          | 660.0     | 610               | 48 x 42                       | 1 219                        | 1 067     | 711              |
| 34 x 24                       | 864                          | 610.0     | 610               | 48 x 40                       | 1 219                        | 1 016     | 711              |

Stainless steel is the abbreviation for stainless and acid resistant steel. Steel that is resistant to weak corrosive media such as air, steam, water, or has rust resistance is called stainless steel; And the steel grade that is resistant to chemical corrosion media (such as acid, alkali, salt, etc.) corrosion is called acid resistant steel. For the Stainless Steel pipefittings, the most common used material is SS304/304L, SS316/316L, DUPLEX SAF2507, SAF2205

### **Production Process**

1. Raw material Receiving and Cutting



## 2. Material Identification



## 3. Elbows, Tees ,reducers, Caps, stub ends, kinds of pipefittings shape forming



## 4. Material welding process (welded elbows )



5. Heat Treatment for SS pipefittings



6. Shot Blast and cleaning



7. Surface checking



8. After Polished



9. stainless steel Pipefittings Material In Stock



#### Application/Usage

Low and middle pressure fluid pipeline, boiler, petroleum and natural gas industry, drilling, chemical industry, electric industry, shipbuilding, fertilizer equipment and pipeline, structure, petrochemical, pharmaceutical industry, etc.

#### **FAQ/ Customer Question and Answers**

**Q:** Customer asked for butt weld fittings in A105:

**A:** Most common carbon steel butt weld fitting material is A234WPB. It is equivalent to A105 flanges, however there is no such thing as an A105 or A106 butt weld fitting. A106 Gr.B is for pipe grade. The A234WPB fittings are made from A106GR.B pipes. A105 is a material from Bar forged to be High pressure Fittings or Flange

**Q:** Customer requests "Normalized" butt weld fittings:

**A:** This is also a misconception since flanges are available in A105 and A105 N, where N stands for normalized. However, there is no such thing as A234WPBN. Manufactures normalize their butt weld fittings was considered that normalized heat treating process was done, Especially for the elbows and Tees  
Customer needing "normalized" butt weld fittings should request WPL6 fittings which are high yield and are normalized as a standard procedure.

**Q:** Customer forgets to mention pipe schedule:

**A:** Butt weld fittings are sold as per pipe size but pipe schedule must be specified to match the ID of the fitting to the ID of the pipe. If no schedule is mentioned, we will assume a standard wall is requested.

**Q:** Customer forgets to mention welded or seamless butt weld fitting:

**A:** Butt weld fittings are available in both welded and seamless configuration. A seamless butt weld carbon steel or stainless steel fitting is made of seamless pipe and is generally more expensive.

Seamless pipe fittings are NOT common in sizes bigger than 12". Welded pipe fittings are made of ERW welded carbon steel or stainless steel pipe. They are available in sizes ½" to 72" and are more affordable than seamless fittings.

**Q:** What does Short Radius (SR) or Long Radius (LR) means?

**A:** You will often hear SR45 elbow or LR45 elbow. The 45 or 90 refers to the angle of the bend for butt weld fitting to change the direction of flow.

A long radius elbow (LR 90 Elbow or LR 45 elbow) will have a pipe bend that will be 1.5 times the size of the pipe. So, a 6 inch LR 90 has bending radius that is 1.5 x nominal pipe size.

A short radius elbow (SR45 or SR90) has a pipe bend that is equal to the size of the fitting, so a 6" SR 45 has a bending radius that is 6" nominal pipe size.

**Q:** What is a 3R or 3D elbow pipe fitting?

**A:** First, the terms 3R or 3D are used synonymously. A 3R butt weld elbow has a bending radius that is 3 times the nominal pipe size. A 3R elbow is equal to 3D Elbows

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