



## Sch10s Sch40s 180deg Steel Pipe Bends And Elbows For Chemical Industry

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: DEYE
- Certification: ISO9001: 2015
- Model Number: PF-EL-S-05
- Minimum Order Quantity: 10pcs
- Price: USD 2-100 dollars for SS36L Elbow
- 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: 180deg steel pipe bends and elbows,  
Sch40s steel pipe bends and elbows,  
Sch10s stainless steel pipe bends



#### More Images



## Product Description

### Sch10s Sch40s Stainless Steel Pipe Fittings 180 Deg Bends For Chemical Industry

#### Brief Introduction

**Stainless steel pipe elbow: 180 degree elbow** is like 45 or [90 degree elbow](#), but the flow direction change is 180 degree. It looks like the flow fluid get back to the same direction from the joint. The shape is like two 90 degree elbows welded together. It is also called "U bend" or "return bend".

#### Products Information/Specification:

|                |                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Products Name  | Butt-Welding Stainless steel seamless and welded Pipe Fitting                                                                                                                                                                                                                                                                                                                   |
| Types          | 180deg Returns, LR Elbows, SR Elbow, 180deg Returns, Bends, Reducing Elbow, Straight Tee, Equal Tee, Y Tee<br>Con. Reducers, Ecc. reducers caps, Stub Ends,                                                                                                                                                                                                                     |
| Size           | 1/2"-72"                                                                                                                                                                                                                                                                                                                                                                        |
| Wall Thickness | SCH5S, SCH10s, SCH20S, SCH30, STD, SCH40S, SCH60, XS, SCH80S, SCH100, SCH120, SCH160S, XXS, DIN, SGP JIS thickness                                                                                                                                                                                                                                                              |
| Standard       | ASTMA312, WP403 A234WPB A420, ANSI B16.9/B16.28/B16.25<br>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<br>Duplex SS 2507, DSS2205, UNS31803 UNS32750<br>1.4301, 1.4306, 1.4401, 1.4435, 1.4406, 1.4404<br>Carbon Steel A234 WPB, WP5, WP9, WP11, WP22, A420WPL6, A420WPL8<br>ST37.0, ST35.8, ST37.2, ST35.4/8, ST42, ST45, ST52, ST52.4<br>STP G38, STP G42, STPT42, STB42, STS42, STPT49, STS49 |
| Surface        | Sandblast, acid pickling, Polished                                                                                                                                                                                                                                                                                                                                              |

#### Features /Characteristics

- 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)
- 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 ).
- 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 SCH10S, 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

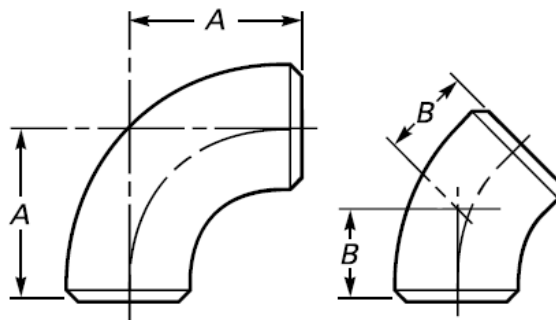
##### Thickness List for pipe fittings ANSI B16.9

Unit: mm

| Pipe Size<br>DN (in) | Outside<br>Diameter D | Nominal Wall Thickness |        |       |       |       |        |      |       |        |      |       |        |        |       |
|----------------------|-----------------------|------------------------|--------|-------|-------|-------|--------|------|-------|--------|------|-------|--------|--------|-------|
|                      |                       | Sch5s                  | Sch10S | Sch10 | Sch20 | Sch30 | Sch40s | STD  | Sch40 | Sch80s | XS   | Sch80 | Sch100 | Sch140 | 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  |
| 3/4                  | 26.7                  | 1.65                   | 2.11   | —     | —     | —     | 2.87   | 2.87 | 2.87  | 3.91   | 3.91 | 3.91  | —      | —      | 5.56  |
| 1                    | 33.4                  | 1.65                   | 2.77   | —     | —     | —     | 3.38   | 3.38 | 3.38  | 4.55   | 4.55 | 4.55  | —      | —      | 6.35  |
| 1 1/4                | 42.2                  | 1.65                   | 2.77   | —     | —     | —     | 3.56   | 3.56 | 3.56  | 4.85   | 4.85 | 4.85  | —      | —      | 6.35  |
| 1 1/2                | 48.3                  | 1.65                   | 2.77   | —     | —     | —     | 3.68   | 3.68 | 3.68  | 5.08   | 5.08 | 5.08  | —      | —      | 7.14  |
| 2                    | 60.3                  | 1.65                   | 2.77   | —     | —     | —     | 3.91   | 3.91 | 3.91  | 5.54   | 5.54 | 5.54  | —      | —      | 8.74  |
| 2 1/2                | 73.0                  | 2.11                   | 3.05   | —     | —     | —     | 5.16   | 5.16 | 5.16  | 7.01   | 7.01 | 7.01  | —      | —      | 9.53  |
| 3                    | 88.9                  | 2.11                   | 3.05   | —     | —     | —     | 5.49   | 5.49 | 5.49  | 7.62   | 7.62 | 7.62  | —      | —      | 11.13 |
| 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  | —     | —     | 13.49 | 17.12 |
| 5  | 141.3  | 2.77 | 3.40 | —    | —     | —     | 6.55 | 6.55 | 6.55  | 9.53  | 9.53  | 9.53  | —     | —     | 15.88 | 19.05 |
| 6  | 168.3  | 2.77 | 3.40 | —    | —     | —     | 7.11 | 7.11 | 7.11  | 10.97 | 10.97 | 10.97 | —     | —     | 18.26 | 21.95 |
| 8  | 219.1  | 2.77 | 3.76 | —    | 6.35  | 7.04  | 8.18 | 8.18 | 8.18  | 12.70 | 12.70 | 12.70 | 15.09 | 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 | 15.09 | 18.26 | 25.40 | 28.58 | 25.40 |
| 12 | 323.9  | 3.96 | 4.57 | —    | 6.35  | 8.38  | 9.53 | 9.53 | 10.31 | 12.70 | 12.70 | 17.48 | 21.44 | 28.58 | 33.32 | 25.40 |
| 14 | 355.6  | 3.96 | 4.78 | 6.35 | 7.92  | 9.53  | —    | 9.53 | 11.13 | —     | 12.70 | 19.05 | 23.83 | 31.75 | 35.71 | —     |
| 16 | 406.4  | 4.19 | 4.78 | 6.35 | 7.92  | 9.53  | —    | 9.53 | 12.70 | —     | 12.70 | 21.44 | 26.19 | 36.53 | 40.49 | —     |
| 18 | 457.2  | 4.19 | 4.78 | 6.35 | 7.92  | 11.13 | —    | 9.53 | 14.27 | —     | 12.70 | 23.83 | 29.36 | 39.67 | 45.24 | —     |
| 20 | 508.0  | 4.78 | 5.54 | 6.35 | 9.53  | 12.70 | —    | 9.53 | 15.09 | —     | 12.70 | 26.19 | 32.54 | 44.45 | 50.01 | —     |
| 22 | 558.8  | 4.78 | 5.54 | 6.35 | 9.53  | 12.70 | —    | 9.53 | —     | —     | 12.70 | 28.58 | 34.93 | 47.63 | 53.98 | —     |
| 24 | 609.6  | 5.54 | 6.35 | 6.35 | 9.53  | 14.27 | —    | 9.53 | 17.48 | —     | 12.70 | 30.96 | 38.89 | 52.37 | 59.54 | —     |
| 26 | 660.4  | —    | —    | 7.92 | 12.70 | —     | —    | 9.53 | —     | —     | 12.70 | —     | —     | —     | —     | —     |
| 28 | 711.2  | —    | —    | 7.92 | 12.70 | 15.88 | —    | 9.53 | —     | —     | 12.70 | —     | —     | —     | —     | —     |
| 30 | 762.0  | 6.35 | 7.92 | 7.92 | 12.70 | 15.88 | —    | 9.53 | —     | —     | 12.70 | —     | —     | —     | —     | —     |
| 32 | 812.8  | —    | —    | 7.92 | 12.70 | 15.88 | —    | 9.53 | 17.48 | —     | 12.70 | —     | —     | —     | —     | —     |
| 34 | 863.6  | —    | —    | 7.92 | 12.70 | 15.88 | —    | 9.53 | 17.48 | —     | 12.70 | —     | —     | —     | —     | —     |
| 36 | 914.4  | —    | —    | 7.92 | 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 | —     | —     | —     | —     | —     |

**Table 1 Dimensions of Long Radius Elbows**

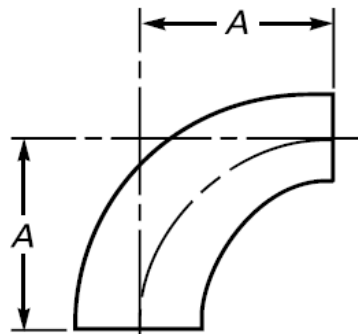


**GENERAL NOTE:** All dimensions are in millimeters.

| Normal Pipe Size (NPS) | Outside Diameter at Bevel | 90-deg Elbows, A | 45-deg Elbows, B |
|------------------------|---------------------------|------------------|------------------|
| 1/2                    | 21.3                      | 38               | 16               |
| 3/4                    | 26.7                      | 38               | 19               |
| 1                      | 33.4                      | 38               | 22               |
| 1 1/4                  | 42.2                      | 48               | 25               |
| 1 1/2                  | 48.3                      | 57               | 29               |
| 2                      | 60.3                      | 76               | 35               |
| 2 1/2                  | 73.0                      | 95               | 44               |
| 3                      | 88.9                      | 114              | 51               |
| 3 1/2                  | 101.6                     | 133              | 57               |
| 4                      | 114.3                     | 152              | 64               |
| 5                      | 141.3                     | 190              | 79               |
| 6                      | 168.3                     | 229              | 95               |
| 8                      | 219.1                     | 305              | 127              |
| 10                     | 273.0                     | 381              | 159              |
| 12                     | 323.8                     | 457              | 190              |
| 14                     | 355.6                     | 533              | 222              |
| 16                     | 406.4                     | 610              | 254              |
| 18                     | 457.0                     | 686              | 286              |
| 20                     | 508.0                     | 762              | 318              |
| 22                     | 559.0                     | 838              | 343              |
| 24                     | 610.0                     | 914              | 381              |
| 26                     | 660.0                     | 991              | 406              |
| 28                     | 711.0                     | 1 067            | 438              |
| 30                     | 762.0                     | 1 143            | 470              |
| 32                     | 813.0                     | 1 219            | 502              |
| 34                     | 864.0                     | 1 295            | 533              |
| 36                     | 914.0                     | 1 372            | 565              |
| 38                     | 965.0                     | 1 448            | 600              |

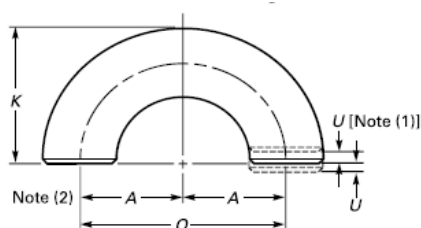
|    |         |       |     |
|----|---------|-------|-----|
| 40 | 1 016.0 | 1 524 | 632 |
| 42 | 1 067.0 | 1 600 | 660 |
| 44 | 1 118.0 | 1 676 | 695 |
| 46 | 1 168.0 | 1 753 | 727 |
| 48 | 1 219.0 | 1 829 | 759 |

**Table 2 Dimensions of Long Radius Reducing Elbow**

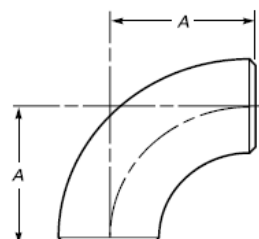


| Nominal<br>Pipe Size<br>(NPS) | Outside Diameter at<br>Bevel |           | Center-<br>to-End,<br>A | Nominal Pipe<br>Size (NPS) | Outside Diameter at<br>Bevel |           | Center-<br>to-End, A |
|-------------------------------|------------------------------|-----------|-------------------------|----------------------------|------------------------------|-----------|----------------------|
|                               | Large<br>End                 | Small End |                         |                            | Large End                    | Small End |                      |
| 2 x 1-1/2"                    | 60.3                         | 48.3      | 76                      | 10 x 8                     | 273.0                        | 219.1     | 381                  |
| 2 x 1-1/4"                    | 60.3                         | 42.2      | 76                      | 10 x 6                     | 273.0                        | 168.3     | 381                  |
| 2 x 1"                        | 60.3                         | 33.4      | 76                      | 10 x 5                     | 273.0                        | 141.3     | 381                  |
| 2-1/2 x 2"                    | 73.0                         | 60.3      | 95                      | 12 x 10                    | 323.8                        | 273.0     | 457                  |
| 2-1/2 x 1-1/2"                | 73.0                         | 48.3      | 95                      | 12 x 8                     | 323.8                        | 219.1     | 457                  |
| 2-1/2 x 1-1/4"                | 73.0                         | 42.2      | 95                      | 12 x 6                     | 323.8                        | 168.3     | 457                  |
| 3 x 2-1/2"                    | 88.9                         | 73.0      | 114                     | 14 x 12                    | 355.6                        | 323.8     | 533                  |
| 3 x 2"                        | 88.9                         | 60.3      | 114                     | 14 x 10                    | 355.6                        | 273.0     | 533                  |
| 3 x 1-1/2"                    | 88.9                         | 48.3      | 114                     | 14 x 8                     | 355.6                        | 219.1     | 533                  |
| 3-1/2 x 3"                    | 101.6                        | 88.9      | 133                     | 16 x 14                    | 406.4                        | 355.6     | 610                  |
| 3-1/2 x 2-1/2"                | 101.6                        | 73.0      | 133                     | 16 x 12                    | 406.4                        | 323.8     | 610                  |
| 3-1/2 x 2"                    | 101.6                        | 60.3      | 133                     | 16 x 10                    | 406.4                        | 273.0     | 610                  |
| 4 x 3-1/2"                    | 114.3                        | 101.6     | 152                     | 18 x 16                    | 457.0                        | 406.4     | 686                  |
| 4 x 3"                        | 114.3                        | 88.9      | 152                     | 18 x 14                    | 457.0                        | 355.6     | 686                  |
| 4 x 2-1/2"                    | 114.3                        | 73.0      | 152                     | 18 x 12                    | 457.0                        | 323.8     | 686                  |
| 4 x 2"                        | 114.3                        | 60.3      | 152                     | 18 x 10                    | 457.0                        | 273.0     | 686                  |
| 5 x 4"                        | 141.3                        | 114.3     | 190                     | 20 x 18                    | 508.0                        | 457.0     | 762                  |
| 5 x 3-1/2"                    | 141.3                        | 101.6     | 190                     | 20 x 16                    | 508.0                        | 406.4     | 762                  |
| 5 x 3"                        | 141.3                        | 88.9      | 190                     | 20 x 14                    | 508.0                        | 355.6     | 762                  |
| 5 x 2-1/2"                    | 141.3                        | 73.0      | 190                     | 20 x 12                    | 508.0                        | 323.8     | 762                  |
|                               |                              |           |                         | 20 x 10                    | 508.0                        | 273.0     | 762                  |
| 6 x 5"                        | 168.3                        | 141.3     | 229                     |                            |                              |           |                      |
| 6 x 4"                        | 168.3                        | 114.3     | 229                     | 24 x 22                    | 610.0                        | 559.0     | 914                  |
| 6 x 3-1/2"                    | 168.3                        | 101.6     | 229                     | 24 x 20                    | 610.0                        | 508.0     | 914                  |
| 6 x 3"                        | 168.3                        | 88.9      | 229                     | 24 x 18                    | 610.0                        | 457.0     | 914                  |
|                               |                              |           |                         | 24 x 16                    | 610.0                        | 406.4     | 914                  |
| 8 x 6"                        | 219.1                        | 168.3     | 305                     | 24 x 14                    | 610.0                        | 355.6     | 914                  |
| 8 x 5"                        | 219.1                        | 141.3     | 305                     | 24 x 12                    | 610.0                        | 323.8     | 914                  |
| 8 x 4"                        | 219.1                        | 114.3     | 305                     | • • •                      | • • •                        | • • •     | • • •                |

**Table 3 Dimensions of Long Radius Returns**

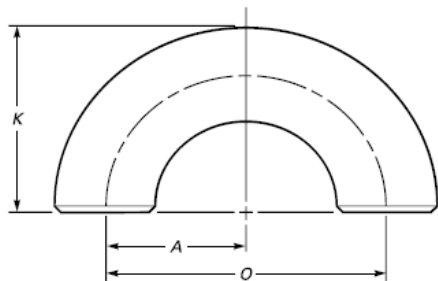


**Table 4 Dimensions of Short Radius Elbows**

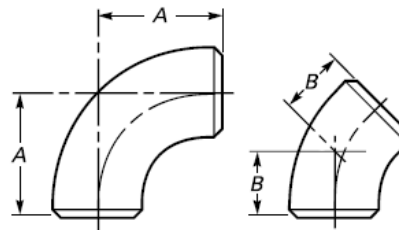


| Nominal<br>Pipe Size<br>NPS | Outside<br>Diameter at<br>Bevel | Center-to-<br>Center | Back-to-<br>Face<br>K | Nominal<br>Pipe Size<br>(NPS) | Outside<br>Diameter at<br>Bevel | Center-to-End,<br>A |
|-----------------------------|---------------------------------|----------------------|-----------------------|-------------------------------|---------------------------------|---------------------|
| 1/2                         | 21.3                            | 76                   | 48                    |                               |                                 |                     |
| 3/4                         | 26.7                            | 76                   | 51                    |                               |                                 |                     |
| 1                           | 33.4                            | 76                   | 56                    | 1                             | 33.4                            | 25                  |
| 1 1/4                       | 42.2                            | 95                   | 70                    | 1 1/4                         | 42.2                            | 32                  |
| 1 1/2                       | 48.3                            | 114                  | 83                    | 1 1/2                         | 48.3                            | 38                  |
| 2                           | 60.3                            | 152                  | 106                   | 2                             | 60.3                            | 51                  |
| 2 1/2                       | 73.0                            | 190                  | 132                   | 2 1/2                         | 73.0                            | 64                  |
| 3                           | 88.9                            | 229                  | 159                   | 3                             | 88.9                            | 76                  |
| 3 1/2                       | 101.6                           | 267                  | 184                   | 3 1/2                         | 101.6                           | 89                  |
| 4                           | 114.3                           | 305                  | 210                   | 4                             | 114.3                           | 102                 |
| 5                           | 141.3                           | 381                  | 262                   | 5                             | 141.3                           | 127                 |
| 6                           | 168.3                           | 457                  | 313                   | 6                             | 168.3                           | 152                 |
| 8                           | 219.1                           | 610                  | 414                   | 8                             | 219.1                           | 203                 |
| 10                          | 273.0                           | 762                  | 518                   | 10                            | 273.0                           | 254                 |
| 12                          | 323.8                           | 914                  | 619                   | 12                            | 323.8                           | 305                 |
| 14                          | 355.6                           | 1 067                | 711                   | 14                            | 355.6                           | 356                 |
| 16                          | 406.4                           | 1 219                | 813                   | 16                            | 406.4                           | 406                 |
| 18                          | 457.0                           | 1 372                | 914                   | 18                            | 457.0                           | 457                 |
| 20                          | 508.0                           | 1 524                | 1 016                 | 20                            | 508.0                           | 508                 |
| 22                          | 559.0                           | 1 676                | 1 118                 | 22                            | 559.0                           | 559                 |
| 24                          | 610.0                           | 1 829                | 1 219                 | 24                            | 610.0                           | 610                 |

**Table 5 Dimensions of Short Radius 180-deg Returns**



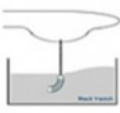
**Table 6 Dimensions of 3D Elbow**



| Nominal Pipe<br>Size<br>(NPS)                     | Outside<br>Diameter<br>r | Center-to-<br>Center | Back-to-<br>Face<br>K | Pipe Size<br>(NPS) | Outside<br>Diameter<br>at Bevel | 90-deg<br>Elbows<br>A | 45-deg<br>Elbows<br>B |
|---------------------------------------------------|--------------------------|----------------------|-----------------------|--------------------|---------------------------------|-----------------------|-----------------------|
| 1                                                 | 33.4                     | 51                   | 41                    | 3/4                | 26.7                            | 57                    | 24                    |
| 1-1/4"                                            | 42.2                     | 64                   | 52                    | 1                  | 33.4                            | 76                    | 31                    |
| 1-1/2"                                            | 48.3                     | 76                   | 62                    | 1 1/4              | 42.2                            | 95                    | 39                    |
| 2                                                 | 60.3                     | 102                  | 81                    | 1 1/2              | 48.3                            | 114                   | 47                    |
| 2-1/2"                                            | 73.0                     | 127                  | 100                   | 2                  | 60.3                            | 152                   | 63                    |
| 3                                                 | 88.9                     | 152                  | 121                   | 2 1/2              | 73.0                            | 190                   | 79                    |
| 3-1/2"                                            | 101.6                    | 178                  | 140                   | 3                  | 88.9                            | 229                   | 95                    |
| 4                                                 | 114.3                    | 203                  | 159                   | 3 1/2              | 101.6                           | 267                   | 111                   |
| 5                                                 | 141.3                    | 254                  | 197                   | 4                  | 114.3                           | 305                   | 127                   |
| 6                                                 | 168.3                    | 305                  | 237                   | 5                  | 141.3                           | 381                   | 157                   |
| 8                                                 | 219.1                    | 406                  | 313                   | 6                  | 168.3                           | 457                   | 189                   |
| 10                                                | 273.0                    | 508                  | 391                   | 8                  | 219.1                           | 610                   | 252                   |
| 12                                                | 323.8                    | 610                  | 467                   | 10                 | 273.0                           | 762                   | 316                   |
| 14                                                | 355.6                    | 711                  | 533                   | 12                 | 323.8                           | 914                   | 378                   |
| 16                                                | 406.4                    | 813                  | 610                   | 14                 | 355.6                           | 1 067                 | 441                   |
| 18                                                | 457.0                    | 914                  | 686                   | 16                 | 406.4                           | 1 219                 | 505                   |
| 20                                                | 508.0                    | 1 016                | 762                   | 18                 | 457.0                           | 1 372                 | 568                   |
| 22                                                | 559.0                    | 1 118                | 838                   | 20                 | 508.0                           | 1 524                 | 632                   |
| 24                                                | 610.0                    | 1 219                | 914                   | 22                 | 559.0                           | 1 676                 | 694                   |
| GENERAL NOTES: All dimensions are in millimeters. |                          |                      |                       | 24                 | 610.0                           | 1 829                 | 757                   |
|                                                   |                          |                      |                       | 26                 | 660.0                           | 1 981                 | 821                   |
|                                                   |                          |                      |                       | 28                 | 711.0                           | 2 134                 | 883                   |
|                                                   |                          |                      |                       | 30                 | 762.0                           | 2 286                 | 964                   |
|                                                   |                          |                      |                       | 32                 | 813.0                           | 2 438                 | 1 010                 |
|                                                   |                          |                      |                       | 34                 | 864.0                           | 2 591                 | 1 073                 |
|                                                   |                          |                      |                       | 36                 | 914.0                           | 2 743                 | 1 135                 |
|                                                   |                          |                      |                       | 38                 | 965.0                           | 2 896                 | 1 200                 |
|                                                   |                          |                      |                       | 40                 | 1 016.0                         | 3 048                 | 1 264                 |
|                                                   |                          |                      |                       | 42                 | 1 067.0                         | 3 200                 | 1 326                 |
|                                                   |                          |                      |                       | 44                 | 1 118.0                         | 3 353                 | 1 389                 |

|  |    |         |       |       |
|--|----|---------|-------|-------|
|  | 46 | 1 168.0 | 3 505 | 1 453 |
|  | 48 | 1 219.0 | 3 658 | 1 516 |

### Production Process

| 1 Receiving Inspection                                                            | 2 Cutting                                                                         | 3 Forming                                                                         | 4 Heat Treatment                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| 5 Shot Blasting & Cleaning                                                        | 6 Beveling                                                                        | 7 Cleaning                                                                        | 8 Package                                                                          |
|  |  |  |  |

### 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 1/2" 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

### **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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