Polished SS304 Stainless Steel Butt Weld Pipe Fittings For Food Industry

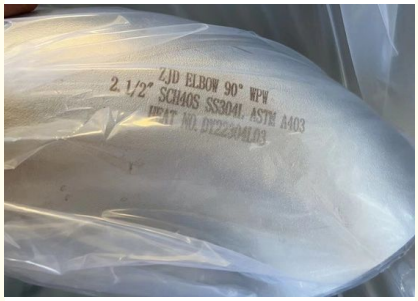
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: DEYE
- Certification: ISO9001: 2015
- Model Number: PF-EL-S-07
- 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: **SS304 stainless steel butt weld pipe fittings**, **Polished stainless steel butt weld pipe fittings**, **Sch5s stainless steel butt weld**



More Images

Product Description

Polished SS304 Welded Stainless Steel Pipe Fitting For Food Industry

Brief Introduction

The stainless steel polished eblow: The polished steel pipe fittings will have a very smooth appearance, making it easier to clean and maintain, and the surface of the polished steel pipe fittings will form an invisible protective film, which can prevent corrosion and scaling on the surface of the pipe. The overall service life will be longer than that of the unpolished 304/316 pipe. After polishing, the product has good stability, while products without polishing become rougher and more prone to wear.

Products Information/Specification:

Products Name	Butt-Welding Stainless steel seamless and welded Pipe Fitting
Types	LR Elbows, SR Elbow, 180deg Returns, Bends, Reducing Eblow, Straight Tee, Equal Tee, Y Tee Con. Reducers, Ecc. redcuers 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
	JIS B2311-1997/2312, JIS B2311/B2312, DIN 2605-1/2617/2615,
	GB 12459-99,EN Standard etc.
Material	Stainless Steel304, 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
	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 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 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

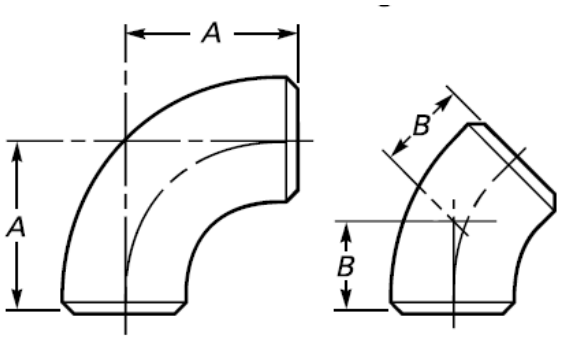
Thickness List for pipefittings ANSI B16.9

Unit: mm

Pipe Size	Outside	Norminal Wall Thickness														
DN (in)	Dimeter D	Sch5s	Sch10	Sch20	Sch30	Sch40s	STD	Sch40	Sch60	XS	Sch80	Sch100	Schl20	Schl40	Sch160	XXS
1/8	10. 3	——	——	——	——	1. 73	1. 73	1. 73	——	2. 41	2. 41	——	——	——	——	——
1/4	13. 7	—	—	—	—	2. 24	2. 24	2. 24	—	3. 02	3. 02	—	—	—	—	—
3/8	17. 1	—	—	—	—	2. 31	2. 31	2. 31	—	3. 20	3. 20	—	—	—	—	—
1/2	21. 3	1.65	——	——	——	2. 77	2. 77	2. 77	——	3. 73	3. 73	——	——	——	4. 78	7. 47
3/4	26. 7	1.65	——	——	——	2. 87	2. 87	2. 87	——	3. 91	3. 91	——	——	——	5. 56	7. 82
1	33.4	1. 65	—	—	—	3. 38	3. 38	3. 38	—	4. 55	4. 55	—	—	—	6. 35	9. 09
1 1/4	42. 2	1.65	—	—	—	3. 56	3. 56	3. 56	—	4. 85	4. 85	—	—	—	6. 35	9. 70
1 1/2	48. 3	1.65	——	——	——	3. 68	3. 68	3. 68	——	5. 08	5. 08	——	——	——	7. 14	10. 15
2	60. 3	1. 65	——	——	——	3. 91	3. 91	3. 91	——	5. 54	5. 54	——	——	——	8. 74	11. 07
2 1/2	73. 0	2. 11	—	—	—	5. 16	5. 16	5. 16	—	7. 01	7.01	—	—	—	9. 53	14. 02
3	88. 9	2. 11	—	—	—	5. 49	5. 49	5. 49	—	7. 62	7. 62	—	—	—	11. 13	15. 24

3 1/2	101. 6	2. 11	——	——	——	5. 74	5. 74	5. 74	——	8. 08	8. 08	——	——	——	——	——
4	114. 3	2. 11	——	——	——	6. 02	6.02	6. 02	——	8. 56	8. 56	——	11. 13	——	13. 49	17. 12
5	141. 3	2. 77	—	—	—	6. 55	6. 55	6. 55	—	9. 53	9. 53	—	12. 70	—	15. 88	19. 05
6	168. 3	2. 77	—	—	—	7. 11	7. 11	7. 11	—	10. 97	10. 97	—	14. 27	—	18. 26	21.95
8	219. 1	2. 77	——	6. 35	7. 04	8. 18	8. 18	8. 18	10. 31	12. 70	12. 70	15. 09	18. 26	20. 62	23. 01	22.23
10	273. 1	3. 40	——	6. 35	7. 80	9. 27	9. 27	9.27	12. 70	12. 70	15. 09	18. 26	21. 44	25. 40	28. 58	25. 40
12	323.9	3. 96	—	6. 35	8. 38	9. 53	9. 53	10. 31	14. 27	12. 70	17. 48	21. 44	25. 40	28. 58	33. 32	25. 40
14	355. 6	3. 96	6. 35	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	6. 35	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	6. 35	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	6. 35	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	6. 35	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	——	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	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

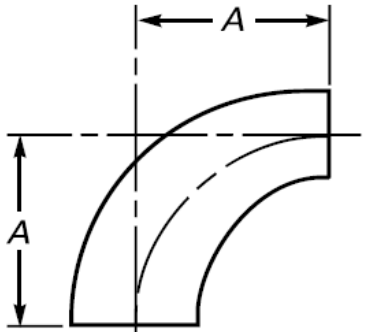


GENERAL NOTE: All dimensions are in millimeters.

Normial 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 Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End, A	Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End, A
	Large End	Small End			Large End	Small End	
2 x1-1/2"	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
2-1/2X 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
3x2"	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
3-1/2x 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
4x3"	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
4X2"	114.3	60.3	152	18 x 10	457.0	273.0	686
5x4"	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
5X3"	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
6x5"	168.3	141.3	229				
6X4"	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
6x3"	168.3	88.9	229	24 x 18	610.0	457.0	914
				24 x 16	610.0	406.4	914
8X6"	219.1	168.3	305	24 X 14	610.0	355.6	914
8X5"	219.1	141.3	305	24 X 12	610.0	323.8	914
8X4"	219.1	114.3	305	• • •	• - •	• . •	• . •

Table 3 Dimensions of Long Radius Returns

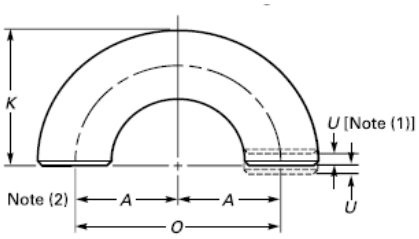
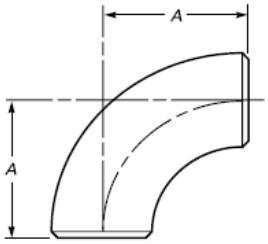


Table 4 Dimensions of Short Radius Elbows



Nominal Pipe Size NPS	Outside Diameter at Bevel	Center-to-Center	Back-to-Face	Nominal Pipe Size	Outside Diameter at Bevel	Center-to-End,
			K	(NPS)		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

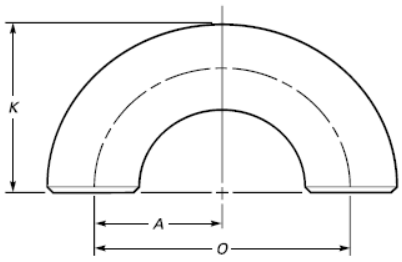
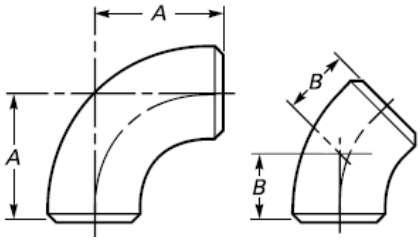


Table 6 Dimensions of 3D Elbow



Nominal Pipe Size	Outside Diameter	Center-to-Center	Back-to-Face	Pipe Size	Outside Diameter	90-deg Elbows	45-deg Elbows
(NPS)		0	K	(NPS)	at Bevel	A	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
				24	610.0	1 829	757
				26	660.0	1 981	821
				28	7H.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

GENERAL NOTES:All dimensions are in millimeters.

44	1 118.0	3 353	1 389
46	1 168.0	3 505	1 453
48	1 219.0	3 658	1 516

Application/Usage

Pipe fittings are widely demanded for any piping and plumbing systems used in industrial and commercial applications. Fittings allow pipes to be joined or installed in the appropriate place and terminated or closed where necessary. Fittings are available in various shapes and sizes. They can be expensive, require time, and different materials and tools to install. They are an essential part of piping and plumbing systems. There are thousands of specialized fittings manufactured. Each type of pipe or tube requires its own type of fitting, but usually all pipe fittings share some common features. Pipe fittings are available everywhere where plumbing materials are sold.

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 wedling 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 buttweld 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, Espeically 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: Buttweld 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 buttweld 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. Tehcnial 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. Flexiable Delivery terms. EXW FOB CIF CFR DDP DDU
5. Fliexable payment Ways: LC. TT. DP
6. Customized Package inlcudes Logo. Cases Dimension .
7. 18 months quality Gurantee time.
9. Free replacement by air if any error founded
10. 24 hours to Feedback your questions

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