



A234 WPB Mild Carbon Steel Pipe Fittings With SCH40 SCH80

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-TEE-C10
- Minimum Order Quantity: 10PCS
- Price: USD0.58-USD100 for seamless fittings
- Packaging Details: Ply-wooden cases, pallets, cartons
- Delivery Time: 5-8 days for stock items
- Payment Terms: L/C, T/T, D/P



Product Specification

- Standard: ASME ANSI DIN GOST MSS SP 44
- Material: A234WPB, WP11, WP22, WPC, P9, P11, A420WPL6
- Thickness: SGP, STD, SCH20, SCH30, SCH40, SCH60, SCH80, SCH160, XS, XXS
- Size: 1/2"-72"
- Types: Elbow, Tees, Reducers, Caps, Stub Ends, Caps
- Connection: Butt Welded BW Butt Welding
- Surface: Black Painting, Vanish Painting, Anti-rust Oil, Sandblastic
- Highlight: **Mild Carbon Steel Pipe Fittings,
SCH40 Carbon Steel Pipe Fittings,
A234 carbon pipe fittings**



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Product Description

A234 WPB Mild Carbon Steel Pipe Fittings With SCH40 SCH80

Butt Welded Pipefittings is designed as per ASME B16.9 specification applied in industrial construction pipelines. Including elbow, tee, cross, cap, reducer, Stub ends and etc. Seamless butt weld pipe fittings are manufactured from seamless pipes and tube by hot or cold extrusion, forming and machining process. Seam welded butt weld fittings are produced from hot rolled Carbon steel pipes. Large size butt weld fittings are manufactured from hot rolled plates, formed into half shells or segments and then welded on the seams. welded Fittings should be made 100% Radiographic Test

Product Information/Product Description/Basis Information/Specification

Production Standards

ASME B16.9	Factory-Made Wrought Fittings Buttwelding
ASME B16.25	Buttwelding Ends
ASME B16.28	Wrought Steel Short Radius Elbows and Buttwelding Returns
MSS SP-43	Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications
ASTM A403 – ASME SA403	Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings

Detailed Specification sheet

Product Name	ANSI B16.9 Butt-Welding Carbon Steel Pipe Fitting seamless type or welded type
Types	LR 90deg Elbows, SR 90deg Elbow, 45deg LR elbow, 22.5LR Elbow, 80deg Returns, Bends, Reducing Elbow, straight Tee, Equal Tee, Con. Reducers, Ecc. reducers, Y tees, caps, Stub Ends, Long and short lap joint stub ends
Size	1/2"-72" Seamless Elbow (1/2" 24"), ERW / Welded / Fabricated Elbow (1/2" 72")
Wall Thickness	SCH10,SCH20,SCH30,STD,SCH40,SCH60,XS,SCH80,SCH100,SCH120,SCH140,SCH160,XXS, DIN, SGP JIS thickness
Mat. Standard	ASTMA234,ASTM A420,ASTM A312, ANSI B16.9/B16.28/B16.25,ASME B16.9, JIS B2311-1997/2312, JIS B2311/B2312, DIN 2605-1/2617/2615, GB 12459-99,EN Standard etc.
Material Grade	Carbon Steel : A234 WPB, WP5, WP6, WP9,WP11,WP12, WP22, A420WPL6, WPL8, WP91 12CrMo, 15Cr5Mo, 1Cr5Mo, 12Cr1MoV , WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70 ST37.0,ST35.8,ST37.2,ST35.4/8,ST42,ST45,ST52,ST52.4 STP G38,STP G42,STPT42,STB42,STS42,STPT49,STS49 Stainless Steel304, 304L, 304H, 316, 316L, 316H, 321, 347, 347H, Duplex SS 2507, DSS2205, UNS31803 UNS32750 1.4301,1.4306, 1.4401, 1.4435, 1.4406, 1.4404, 1.4462, 1.4410, 1.4501
Surface	Black painting, varnish paint, anti rust oil, hot galvanized, cold galvanized, 3PE, etc.
Transport Package	Plastic film, wooden cases , wooden pallet, or as per customers' requests

Technology/ Technical Data Sheet

Thickness List for pipefittings ANSI B16.9

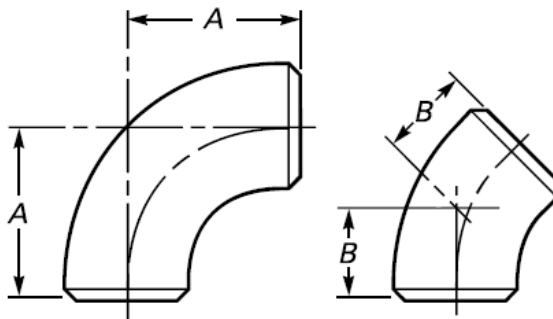
Unit: mm

NPS	Outside Diameter	Different thickness with tolerance of +-12.5%									
		Sch20	Sch30	STD	Sch40	Sch60	XS	Sch80	Sch120	Sch160	XXS
1/8	10.3	—	—	1.73	1.73	—	2.41	2.41	—	—	—
1/4	13.7	—	—	2.24	2.24	—	3.02	3.02	—	—	—
3/8	17.1	—	—	2.31	2.31	—	3.20	3.20	—	—	—
1/2	21.3	—	—	2.77	2.77	—	3.73	3.73	—	4.78	7.47
3/4	26.7	—	—	2.87	2.87	—	3.91	3.91	—	5.56	7.82
1	33.4	—	—	3.38	3.38	—	4.55	4.55	—	6.35	9.09
1 1/4	42.2	—	—	3.56	3.56	—	4.85	4.85	—	6.35	9.70
1 1/2	48.3	—	—	3.68	3.68	—	5.08	5.08	—	7.14	10.15
2	60.3	—	—	3.91	3.91	—	5.54	5.54	—	8.74	11.07
2 1/2	73.0	—	—	5.16	5.16	—	7.01	7.01	—	9.53	14.02
3	88.9	—	—	5.49	5.49	—	7.62	7.62	—	11.13	15.24
3 1/2	101.6	—	—	5.74	5.74	—	8.08	8.08	—	—	—
4	114.3	—	—	6.02	6.02	—	8.56	8.56	11.13	13.49	17.12
5	141.3	—	—	6.55	6.55	—	9.53	9.53	12.70	15.88	19.05
6	168.3	—	—	7.11	7.11	—	10.97	10.97	14.27	18.26	21.95
8	219.1	6.35	7.04	8.18	8.18	10.31	12.70	12.70	18.26	23.01	22.23
10	273.1	6.35	7.80	9.27	9.27	12.70	12.70	15.09	21.44	28.58	25.40
12	323.9	6.35	8.38	9.53	10.31	14.27	12.70	17.48	25.40	33.32	25.40

14	355.6	7.92	9.53	9.53	11.13	15.09	12.70	19.05	27.79	35.71	—
16	406.4	7.92	9.53	9.53	12.70	16.66	12.70	21.44	30.96	40.49	—
18	457.2	7.92	11.13	9.53	14.27	19.05	12.70	23.83	34.96	45.24	—
20	508.0	9.53	12.70	9.53	15.09	20.62	12.70	26.19	38.10	50.01	—
22	558.8	9.53	12.70	9.53	—	22.23	12.70	28.58	41.28	53.98	—
24	609.6	9.53	14.27	9.53	17.48	24.61	12.70	30.96	46.02	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	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	—	—	—	—

Dimension List

Table 1 Dimensions of Long Radius Elbows

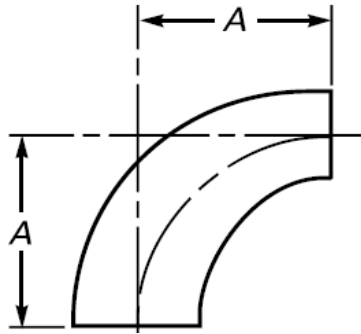


GENERAL NOTE: All dimensions are in millimeters.

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

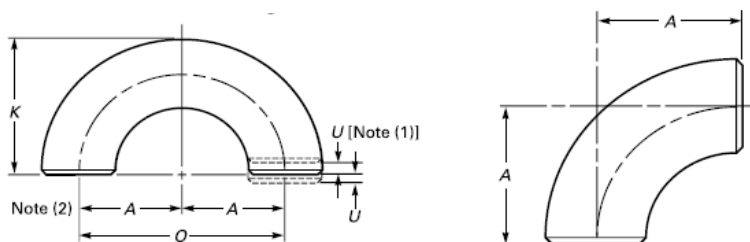
46	1 168.0	1 753	727
48	1 219.0	1 829	759

Table 2 Dimensions of Long Radius Reducing Elbow



Nominal 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 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	• • •	• • •	• • •	• • •

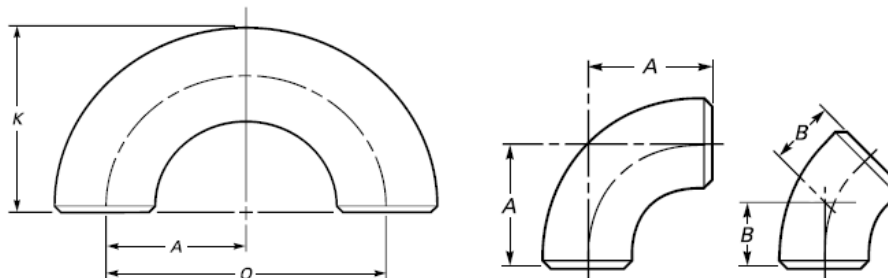
Table 3 Dimensions of Long Radius Returns Table 4 Dimensions of Short Radius Elbows



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

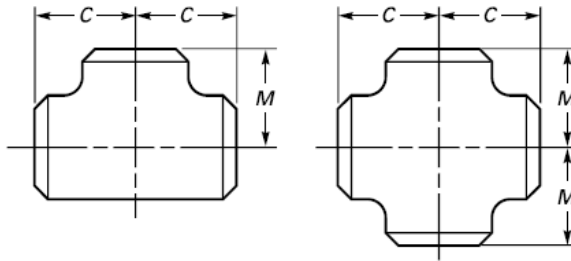
NPS	Bevel				Bevel	
1/2	21.3	76	48			
3/4	26.7	76	51			
1	33.4	76	56	1	33.4	25
1 1/4	42.2	95	70	1 1/4	42.2	32
1 1/2	48.3	114	83	1 1/2	48.3	38
2	60.3	152	106	2	60.3	51
2 1/2	73.0	190	132	2 1/2	73.0	64
3	88.9	229	159	3	88.9	76
3 1/2	101.6	267	184	3 1/2	101.6	89
4	114.3	305	210	4	114.3	102
5	141.3	381	262	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



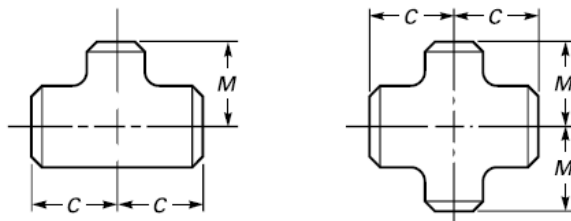
Nominal Pipe Size (NPS)	Outside Diameter	Center-to-Center	Back-to-Face	Pipe Size (NPS)	Outside Diameter at Bevel	90-deg Elbows	45-deg Elbows
1	33.4	51	41	3/4	26.7	57	24
1-1/4"	42.2	64	52	1	33.4	76	31
1-1/2"	48.3	76	62	1 1/4	42.2	95	39
2	60.3	102	81	1 1/2	48.3	114	47
2-1/2"	73.0	127	100	2	60.3	152	63
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

Dimensions of Straight Tees and Crosses



Nominal Pipe Size (NPS)	Outside Diameter at Bevel	Center-to-End	
		Run, C	Outlet, M [Notes (1) and (2)]
72	21.3	25	25
80	26.7	29	29
90	33.4	38	38
100	42.2	48	48
110	48.3	57	57
120	60.3	64	64
130	73.0	76	76
140	88.9	86	86
150	101.6	95	95
160	114.3	105	105
180	141.3	124	124
200	168.3	143	143
220	219.1	178	178
240	273.0	216	216
260	323.8	254	254
280	355.6	279	279
300	406.4	305	305
320	457.0	343	343
340	508.0	381	381
360	559.0	419	419
380	610.0	432	432
400	660.0	495	495
420	711.0	521	521
440	762.0	559	559
460	813.0	597	597
480	864.0	635	635
500	914.0	673	673
520	965.0	711	711
540	1 016.0	749	749
560	1 067.0	762	711
580	1 118.0	813	762
600	1 168.0	851	800
620	1 219.0	889	838

Dimensions of Reducing Outlet Tees and Reducing Outlet Crosses



Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End		Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End	
	Run	Outlet	Run, C	Outlet, M [Note (1)]		Run	Outlet	Run, C	Outlet, M [Note (1)]
1/2 x 1/2 x 3/8	21.3	17.3	25	25	4 x 4 x 3-1/2	114.3	101.6	105	102
1/2 x 1/2 x 1/4	21.3	13.7	25	25	4x4x3	114.3	88.9	105	98
3/4 x 3/4 x 1/2	26.7	21.3	29	29	4 X 4 X 2-1/2	114.3	73.0	105	95
3/4 x 3/4 x 3/8	26.7	17.3	29	29	4x4x2	114.3	60.3	105	89
1 X 1 X 3/4	33.4	26.7	38	38	4 x 4 x 1-1/2	114.3	48.3	105	86
1 x 1 x 1/2	33.4	21.3	38	38					

					5X5X4	141.3	114.3	124	117
1-1/4 x 1-1/4 x 1	42.2	33.4	48	48	5 X 5 X 3-1/2	141.3	101.6	124	114
1-1/4 x 1-1/4 x 3/4	42.2	26.7	48	48	5X5X3	141.3	88.9	124	111
1-1/4 x 1-1/4 x 1/2	42.2	21.3	48	48	5 X 5 X 2-1/2	141.3	73.0	124	108
					5X5X2	141.3	60.3	124	105
1-1/2 x 1-1/2 x 1-1/4	48.3	42.2	57	57	6X6X5	168.3	141.3	143	137
1-1/2 x 1-1/2 x 1	48.3	33.4	57	57	6x6x4	168.3	114.3	143	130
1-1/2 x 1-1/2 x 3/4	48.3	26.7	57	57	6 x 6 x 3-1/2	168.3	101.6	143	127
1-1/2 x 1-1/2 x 1/2	48.3	21.3	57	57	6x6x3	168.3	88.9	143	124
					6 x 6 x 2-1/2	168.3	73.0	143	121
2 x 2 x 1-1/2	60.3	48.3	64	60					
2 x 2 x 1-1/4	60.3	42.2	64	57	8x8x6	219.1	168.3	178	168
2 X 2 X 1	60.3	33.4	64	51	8x8x5	219.1	141.3	178	162
2 x 2 x 3/4	60.3	26.7	64	44	8X8X4	219.1	114.3	178	156
					8 x 8 x 3-1/2	219.1	101.6	178	152
2-1/2 X 2-1/2 X 2	73.0	60.3	76	70					
2-1/2 X 2-1/2 X 1-1/2	73.0	48.3	76	67	10 x 10 x 8	273.0	219.1	216	203
2-1/2 X 2-1/2 X 1-1/4	73.0	42.2	76	64	10 x 10 x 6	273.0	168.3	216	194
2-1/2 X 2-1/2 X 1	73.0	33.4	76	57	10 x 10 x 5	273.0	141.3	216	191
					10 x 10 x 4	273.0	114.3	216	184
3 X 3 X 2-1/2	88.9	73.0	86	83	12 x 12 x 10	323.8	273.0	254	241
3x3x2	88.9	60.3	86	76	12 x 12 x 8	323.8	219.1	254	229
3 x 3 x 1-1/2	88.9	48.3	86	73	12 X 12 X 6	323.8	168.3	254	219
3 x 3 x 1-1/4	88.9	42.2	86	70	12 x 12 x 5	323.8	141.3	254	216
3-1/2 x 3-1/2 x 3	101.6	88.9	95	92	14 X 14 X 12	355.6	323.8	279	270
3-1/2 x 3-1/2 x 2-1/2	101.6	73.0	95	89	14 X 14 X 10	355.6	273.0	279	257
3-1/2 x 3-1/2 x 2	101.6	60.3	95	83	14 X 14 X 8	355.6	219.1	279	248
3-1/2 x 3-1/2 x 1-1/2	101.6	48.3	95	79	14 x 14 x 6	355.6	168.3	279	238

Size (NPS)	Outside Diameter at Bevel		Center to Ends		Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center to Ends	
	Run	Outlet	Run, C	Outlet, M [Note (1)]		Run	Outlet	Run, C	Outlet, M [Note (1)]
16 x 14	406.4	355.6	305	305	28 X 28 X 26	711	660.0	521	521
16 x 12	406.4	323.8	305	295	28 X 28 X 24	711	610.0	521	508
16 x 10	406.4	273.0	305	283	28 x 28 x 22	711	559.0	521	495
16 x 8	406.4	219.1	305	273	28 x 28 x 20	711	508.0	521	483
16 x 6	406.4	168.3	305	264					
					28 X 28 X 18	711	457.0	521	470
18 x 16	457.0	406.4	343	330	28 X 28 X 16	711	406.4	521	457
18 x 14	457.0	355.6	343	330	28 x 28 x 14	711	355.6	521	457
18 X 12	457.0	323.8	343	321	28 X 28 X 12	711	323.8	521	448
18 x 10	457.0	273.0	343	308					
18 X 8	457.0	219.1	343	298	30 X 30 X 28	762	711.0	559	546
					30 x 30 x 26	762	660.0	559	546
20 X 18	508.0	457.0	381	368	30 x 30 x 24	762	610.0	559	533
20 x 16	508.0	406.4	381	356	30 x 30 x 22	762	559.0	559	521
20 x 14	508.0	355.6	381	356	30 x 30 x 20	762	508.0	559	508
20 X 12	508.0	323.8	381	346					
20 X 10	508.0	273.0	381	333	30 x 30 x 18	762	457.0	559	495
20 X 8	508.0	219.1	381	324	30 x 30 x 16	762	406.4	559	483

WP22 CL1,	0.05–0.15	0.30–0.60	0.04	0.04	0.50 max	1.90–2.60	0.87–1.13		
WP22 CL3									
WP5 CL1,	0.15 max	0.30–0.60	0.04	0.03	0.50 max	4.0–6.0	0.44–0.65		
WP5 CL3									
WP9 CL1,	0.15 max	0.30–0.60	0.03	0.03	1.00 max	8.0–10.0	0.90–1.10		
WP9 CL3 WPR									
	0.20 max	0.40–1.06	0.045	0.05	...	...	...	1.60–2.24	0.75–1.25
WP91	0.08–0.12	0.30–0.60	0.02	0.01	0.20–0.50	8.0–9.5	0.85–1.05	0.40 max	...
WP911	0.09–0.13	0.30–0.60	0.02	0.01	0.10–0.50	8.5–9.5	0.90–1.10	0.40 max	...

Mechanical Performance Requirements

Grade and Marking Symbol	WPB	WPC,		WP11 CL1,		WP11 CL3,			
		WP11 CL2, WP12 CL2	WP1	WP22 CL1, WP5 CL1	WPR	WP22 CL3 WP5 CL3	WP91	WP911	WP12 CL1
				WP9 CL1		WP9 CL3			
Tensile strength, range ksi [MPa]	60–85	70–95	55–80	60–85	63–88	75–100	85–110	90–120	60–85
	[415–585]	[485–655]	[380–550]	[415–585]	[435–605]	[520–690]	[585–760]	[620–840]	[415–585]
Yield strength, min, ksi [MPa]	35 [240]	40 [275]	30 [205]	30 [205]	46 [315]	45 [310]	60 [415]	64 [440]	32 [220]
(0.2 % offset or 0.5 % extension-under-load)									

Production Process

Elbow Marking process and reequipment



ELBOW Shaper Machining



Tee form Process and equipment



Reducer Form process and equipment



Sand blasted process and equipment



Beveling Process



Painting Shop



Package For shipment



Reference Standards

ASME B16.9 Specification for Butt Welded Fittings

ASME B16.9 specification is designed for butt welded fittings applied in industrial construction pipelines. Including elbow, tee, cross, cap, reducer, and etc.

Standard Scope

The standard includes specifications of NPS 1/2 to NPS 48 (DN15-DN1200) factory-made wrought butt-welded pipe fittings overall dimensions, tolerances ratings, test methods and markings.

Special Fittings

Special fittings here refer to special sizes, forms and tolerances that agreed between buyer and manufacturer.

Fabricated Fittings

Fabricated laterals and other fittings by circumferential or intersection welds are considered pipe fabrication could not apply this standard.

Units under ASME B16.9 shall be stated in both SI (Metric) and U.S. Customary units. Designation for size is NPS.

Reference Standards

It is not considered practical to identify the specific edition of each standard and specification in the individual references. A product made comply with a prior edition of referenced standards and in all other respects conforming to this standard will be considered complied.

ASME B16.5: Pipe Flanges and Flanged Fittings: NPS 1/2 Through NPS 24 Metric/Inch Standard

ASME B16.25: For Buttwelding Ends

ASME B31: Code for Pressure Piping

ASME B31.3: Process Piping

ASME B36.10M, Welded and Seamless Wrought Steel Pipe

ASME B36.19M, Stainless Steel Pipe

ASME Boiler and Pressure Vessel Code

ASTM A234/A234M-17, Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service

ASTM A403/A403M-16, Specification for Wrought Austenitic Stainless Steel Piping Fittings

ASTM A420/A420M-16, Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low Temperature Service

ASTM A815/A815M-14e1, Specification for Wrought Ferritic, Ferritic/Austenitic and Martensitic Stainless Steel Piping Fittings

ASTM A960/A960M-16a, Specification for Common Requirements for Wrought Steel Piping Fittings

ASTM E29-13, Practice for Using Significant Digits in Test Data to Determine Conformance With Specifications

ASTM B361-16, ASTM B363-14, ASTM B366/B366M-17: For other material metals. (Aluminum, Titanium, Nickel, and alloy).

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: 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 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

DEYE PIPING COMPANY 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.
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9. Free replacement by air if any error founded
10. 24 hours to Feedback your questions



+86 15232624811



Sales@deyepiping.com



deyepiping-industry.com

No. 368 Youyi St. Shijiazhuang, Hebei, China