Schulzmann

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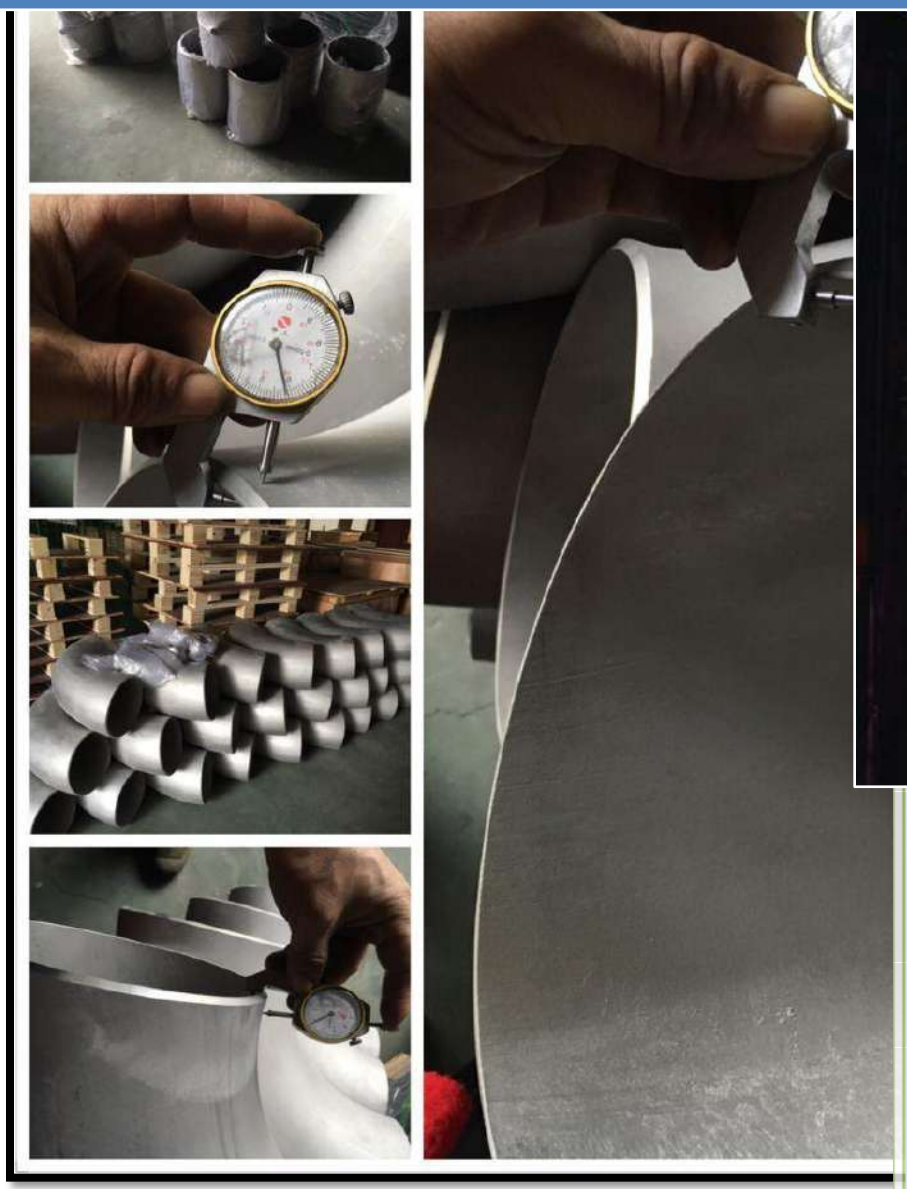
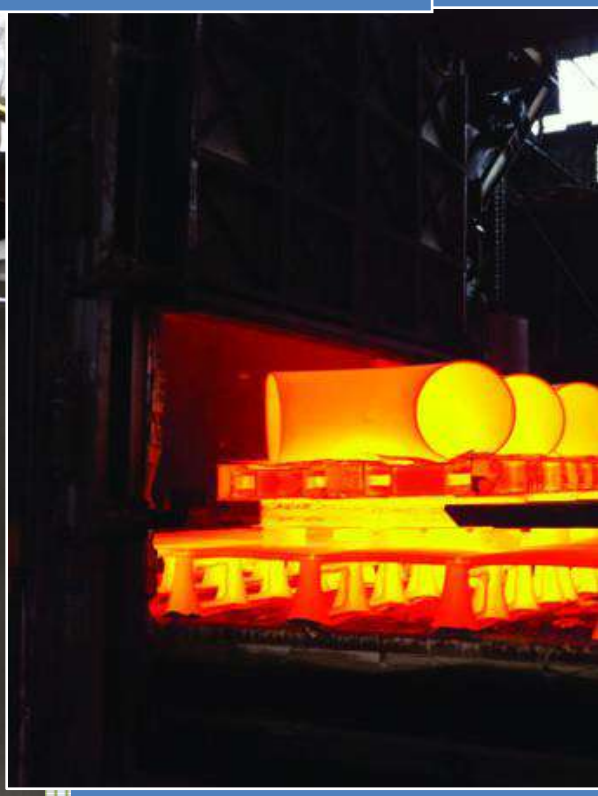
2022

Pipe Fittings Dimensions and Weight Chart





- **Dimension**
- **Weight chart**
- **Tolerances**
- **Wall Thickness**
- **Applications**
- **Features**

Seamless vs Buttweld Fittings: Which is Better?

Fittings are typically one of the critical components of piping operations. There are several cutting-edge pipe fittings on the market nowadays. The fittings produced in various shapes for various benefits include Seamless or Welded Butt Weld fittings.

In principle, welded buttweld fits are constructed from high-yield steel and nickel alloys. They are used to modify the pipeline course, split, and blind a pipe, among other applications. These come in the elbow, cap, and outlet varieties. While seamless buttweld fittings are only made by cutting and reshaping the seamless tubes, they do not have seam welds.

What Are The Type Of Fittings Used In A Pipe?

Three pieces of pipe can be connected using tee and wye Pipe Fittings Dimensions.

Cross Fittings - Based on the situation, crosses can have 1 inlet and 3 exits. These less frequent four-way connectors are employed in a few agricultural and sprinkler systems.

Elbow fitting - Elbows modify the fluid flow between two tubes. Typical elbows are employed to make turns and have angles of 90, 60, 45, or 22 12 degrees. They can be connected together to navigate around obstacles in the pipe flow.

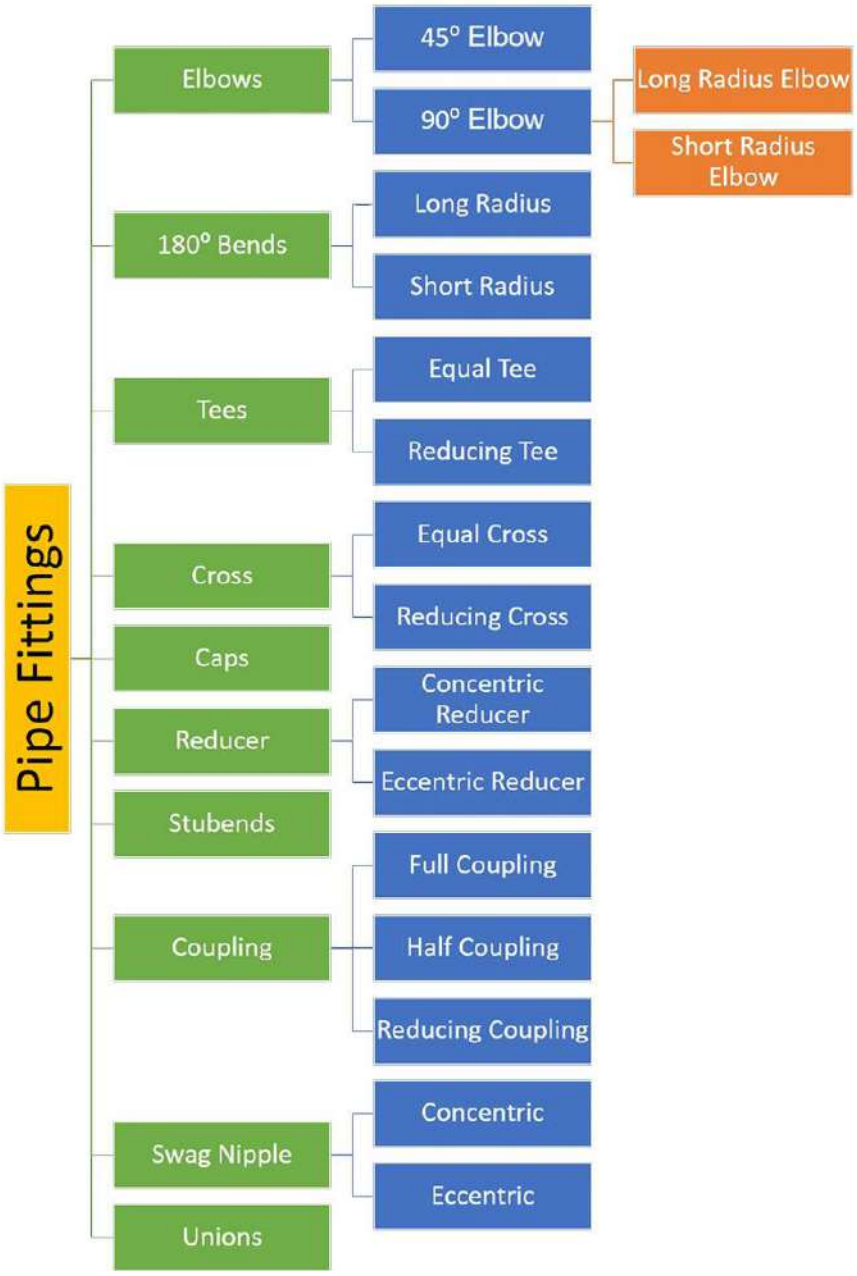
Slip fittings: A primer and quickly curing solvent cement are used to attach plastic pipes with smooth sides that can simply slip together.

How a pipe links to other parts and which uses and parts the pipe is better suited for depends. It will depend on the type of pipe end selected.

Multiple end kinds are also possible for a single pipe. This is frequently stated in the pipe label or explanation.

Check the difference between Seamless and Buttweld Fittings

Page (2)


Pipe Fittings
Elbows
45° Elbow
90° Elbow
Long Radius Elbow
Short Radius Elbow
180° Bends
Long Radius
Short Radius
Tees
Equal Tee
Reducing Tee
Cross
Equal Cross
Reducing Cross
Caps
Reducer
Concentric Reducer
Eccentric Reducer
Stubends
Coupling
Full Coupling
Half Coupling
Reducing Coupling
Swag Nipple
Concentric
Eccentric
Unions

Check the Type Of Fittings used in a pipeline system in petrochemical, refinery, oil & gas sectors

How Do You Calculate Pipe Fitting Weight?

You can estimate the bend's weight using the Bend Weight and Length tool based on specific product size.Mass of a 90D Elbow with a Long Radius (LR) corresponds: 0.0387 x S x (D-S) x R / 1000

Whereas the mass of a 180D elbow is double that of a 90D.It is half as heavy as a 45-degree elbow with a long radius.The mass of a 90-degree elbow with a short radius is one-third that of an elbow with a long radius. You can check Buttweld Fittings Weight Chart for more information.

Check the formula to calculate Pipe Fitting Weight, a useful pdf for buttweld pipe fittings

Materials & Grades

Stainless Steel : ASTM A403 WP Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L

Carbon Steel : ASTM A 234 WPB, WPBW, WPHY 42, WPHY 46, WPHY 52, WPH 60, WPHY 65 & WPHY 70

Alloy Steel : ASTM / ASME A/SA 234 Gr. WP 1, WP 11, WP 12, WP 22, WP 91, WP 5, WP 9

Duplex Steel : Duplex 2205 - UNS NO S31803, S32205, Super Duplex

Aluminum : Alloy 1100, 2011, 2014, 2024, 3003, 5052, 6061, 6063 and 7075

Nickel Alloy : Inconel 600, MONEL 400, ALLOY 20, Inconel 825, Inconel 625, Hastelloy C276

End Finishes:

- Tapered pipe thread
- Grooved
- Straight pipe thread
- Roller Cut
- Square Cut
- Reamed and chamfered

Surface Finishes :

Threaded
Beveled
Square
Flanged
Grooved

Fabrication :

- Threaded
- Seamless
- Bended
- Grooved
- Barbed

Factors to be considered before purchasing

Corrosion resistance
Type
Material
Standard
Size and dimension, wall thickness

Refer Buttweld/ Seamless/ Weld Fittings Weight Chart, Tolerances and Wall Thickness

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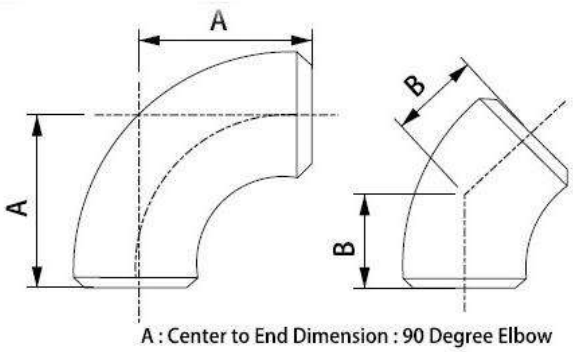
Dimensions

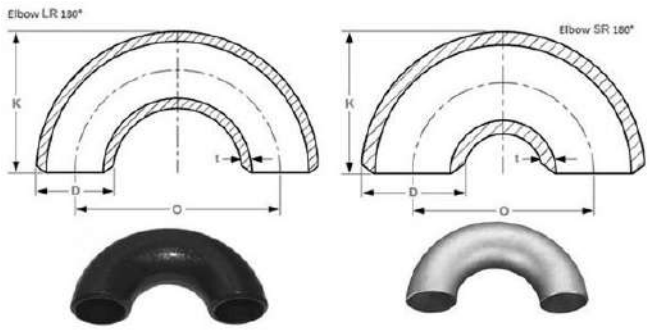
45 & 90 Degree Elbow (LR & SR)



A : Center to End Dimension : 90 Degree Elbow
B : Center to End Dimension : 45 Degree Elbow

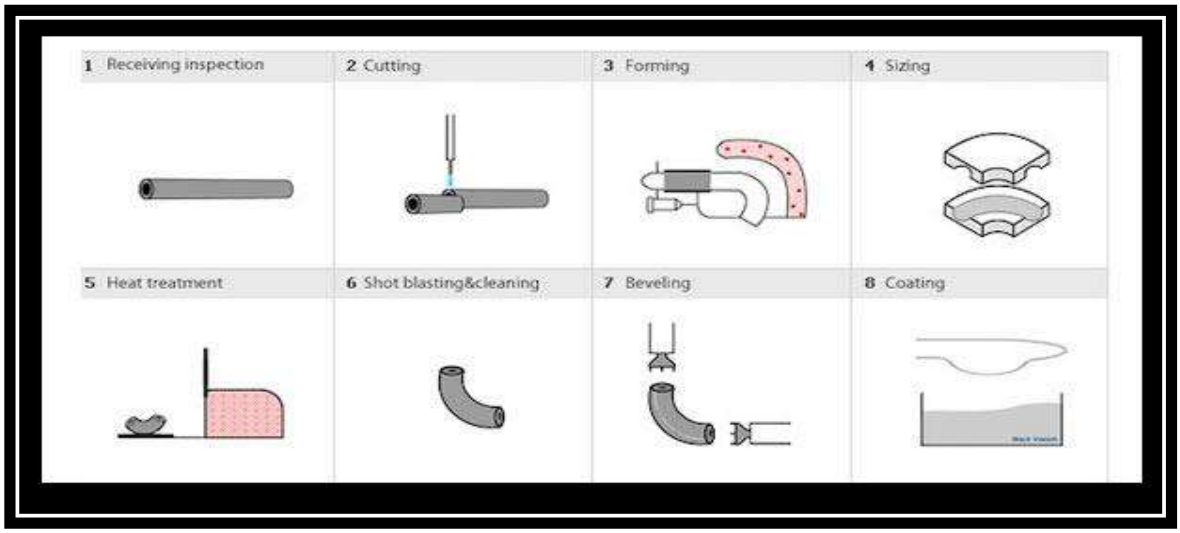
NPS	Outside Diameter Of (D)	90 Deg LR (A)	45 Deg LR (B)	90 Deg 3D (A)	45 Deg 3D (B)
1/2	21.3	38	16		
3/4	26.7	38	19	57	24
1	33.4	38	22	76	31
1.1/4	42.2	48	25	95	39
1.1/2	48.3	57	29	114	47
2	60.3	76	35	152	63
2.1/2	73	95	44	190	79
3	88.9	114	51	229	95
3.1/2	101.6	133	57	267	111
4	114.3	152	64	305	127
5	141.3	190	79	381	157
6	168.3	229	95	457	189
8	219.1	305	127	610	252
10	273	381	159	762	316
12	323.8	457	190	914	378
14	355.6	533	222	1067	441
16	406.4	610	254	1219	505
18	457	686	286	1372	568
20	508	762	318	1524	632
22	559	838	343	1676	694
24	610	914	381	1829	757

SR & LR



Normal Pipe Size	Outside Diameter Of D	180 Degree LR		180 Degree SR	
		Center-Center Of **(O)**	Back to Face **(K)**	Center-Center Of **(O)**	Back to Face **(K)**
1/2	21.3	76	48		
3/4	26.7	76	51		
1	33.4	76	56	51	41
1.1/4	42.2	95	70	64	52
1.1/2	48.3	114	83	76	62
2	60.3	152	106	102	81
2.1/2	73	190	132	127	100
3	88.9	229	159	152	121
3.1/2	101.6	267	184	178	140
4	114.3	305	210	203	159
5	141.3	381	262	254	197
6	168.3	457	313	305	237
8	219.1	610	414	406	313
10	273	762	518	508	391
12	323.8	914	619	610	467
14	355.6	1067	711	711	533
16	406.4	1219	813	813	610
18	457	1372	914	914	686
20	508	1524	1016	1016	762
22	559	1676	1118	1118	838
24	610	1829	1219	1219	914

Buttweld Elbow Manufacturing Process (Mandrel Process)



Applications :

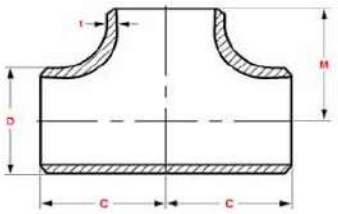
- *It is useful in gases flow lines, medical, fluids in industrial process, and construction, etc*
- *It is constructed for heavy materials for tough applications like ultimate high and low temperature resistance*
- *It is specially designed to be utilized in the process and control systems*
- *petroleum, fluid power and paper and pulp plants*

Machineries :

- *Radial Driling Machine*
- *Elbows Cold Forming Machines*
- *Hydraulic Press 300 Tons Capacity*
- *CNC Lath*
- *Hydraulic Press 150 Tons Capacity*

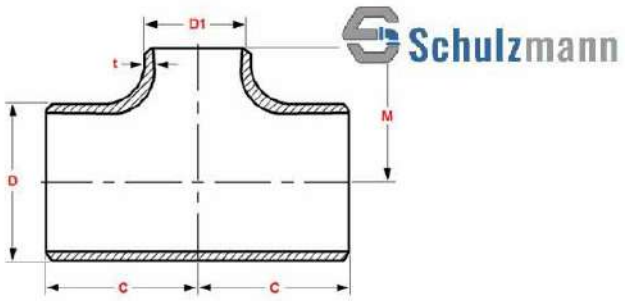
Check the correct way to measure Buttweld Pipe Fittings sizes accordance to ANSI/ ASME B16.9 / ASME B16.28 and MSS SP-43

Equal Tee Dimensions



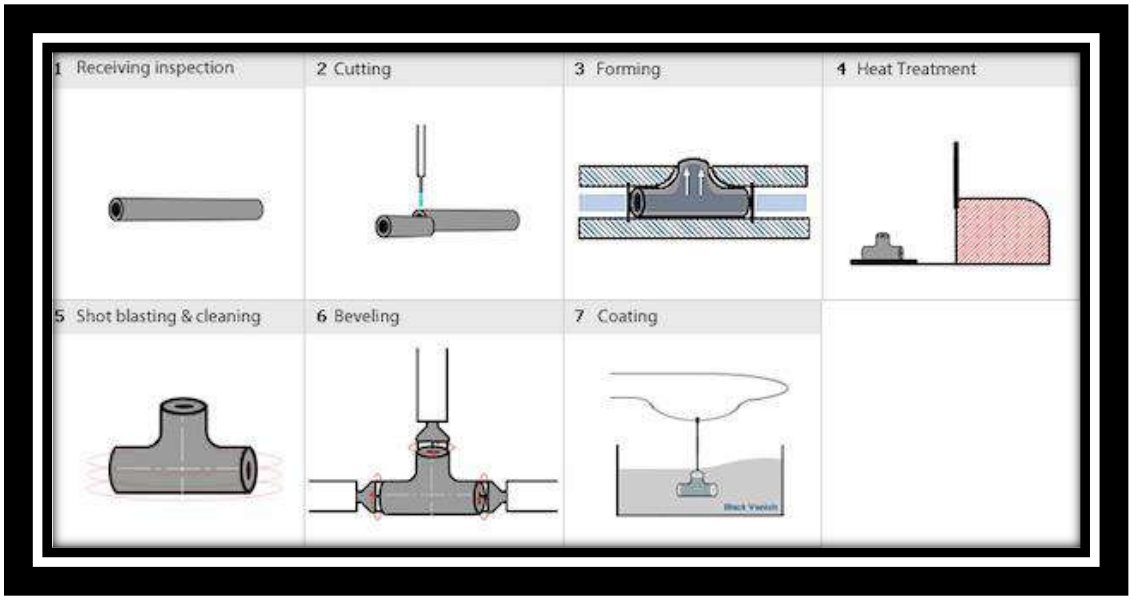
Normal Pipe Size	Outside Diameter Of (D)	Center-End Of (C)	Center-End Of (M)
1/2	21.3	25	25
3/4	26.7	29	29
1	33.4	38	38
1.1/4	42.2	48	48
1.1/2	48.3	57	57
2	60.3	64	64
2.1/2	73	76	76
3	88.9	86	86
3.1/2	101.6	95	95
4	114.3	105	105
5	141.3	124	124
6	168.3	143	143
8	219.1	178	178
10	273	216	216
12	323.8	254	254
14	355.6	279	279
16	406.4	305	305
18	457	343	343
20	508	381	381
22	559	419	419
24	610	432	432
26	660	495	495
28	711	521	521
30	762	559	559

Reducing Tee Dimensions



Normal Pipe Size	Outside Diameter Of (D)	Outside Diameter Of (D1)	Center-End Of (C)	Center-End Of (M)
3/4 - 1/2	26.7	21.3	29	29
1 - 1/2	33.4	21.3	38	38
1 - 3/4	33.4	26.7	38	38
1.1/4 - 1/2	42.2	21.3	48	48
1.1/4 - 3/4	42.2	26.7	48	48
1.1/4 - 1	42.2	33.4	48	48
1.1/2 - 1/2	48.3	21.3	57	57
1.1/2 - 3/4	48.3	26.7	57	57
1.1/2 - 1	48.3	33.4	57	57
1.1/2 - 1.1/4	48.3	42.2	57	57
2 - 3/4	60.3	26.7	64	44
2 - 1	60.3	33.4	64	51
2 - 1.1/4	60.3	42.2	64	57
2 - 1.1/2	60.3	48.3	64	60
2.1/2 - 1	73	33.4	76	57
2.1/2 - 1.1/4	73	42.2	76	64
2.1/2 - 1.1/2	73	48.3	76	67
2.1/2 - 2	73	60.3	76	70
3 - 1.1/4	88.9	42.2	86	70
3 - 1.1/2	88.9	48.3	86	73
3 - 2	88.9	60.3	86	76
3 - 2.1/2	88.9	73	86	83
3.1/2 - 1.1/2	101.6	48.3	95	79
3.1/2 - 2	101.6	60.3	95	83
3.1/2 - 2.1/2	101.6	73	95	89
3.1/2 - 3	101.6	88.9	95	92
4 - 1.1/2	114.3	48.3	105	86

Buttweld Tee Manufacturing Process (Cold forming)



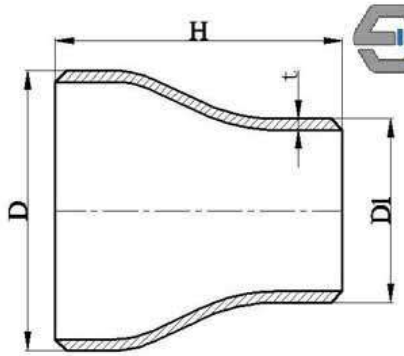
Applications :

- *Automotive*
- *Chemical Industry*
- *Marine Industry*
- *Petroleum Industry*
- *Paper and Pulp Industry*
- *Power Generation*

Features :

- *Open of various size and two openings of the same sizes*
- *Buttweld tee has dragged to attach the fittings to a stud and divider*
- *Equal tee has a strong opening*

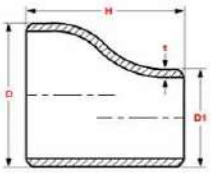
Concentric Reducer Dimensions



Normal Pipe Size	Outside Diameter Of (D)	Outside Diameter Of (D1)	Length Of (H)
3/4 - 1/2	26.7	21.3	38
1 - 1/2	33.4	21.3	51
1 - 3/4	33.4	26.7	51
1.1/4 - 1/2	42.2	21.3	51
1.1/4 - 3/4	42.2	26.7	51
1.1/4 - 1	42.2	33.4	51
1.1/2 - 1/2	48.3	21.3	64
1.1/2 - 3/4	48.3	26.7	64
1.1/2 - 1	48.3	33.4	64
1.1/2 - 1.1/4	48.3	42.2	64
2 - 3/4	60.3	26.7	76
2 - 1	60.3	33.4	76
2 - 1.1/4	60.3	42.2	76
2 - 1.1/2	60.3	48.3	76
2.1/2 - 1	73	33.4	89
2.1/2 - 1.1/4	73	42.2	89
2.1/2 - 1.1/2	73	48.3	89
2.1/2 - 2	73	60.3	89
3 - 1.1/4	88.9	42.2	89
3 - 1.1/2	88.9	48.3	89
3 - 2	88.9	60.3	89
3 - 2.1/2	88.9	73	89
3.1/2 - 1.1/4	101.6	42.2	102
3.1/2 - 1.1/2	101.6	48.3	102
3.1/2 - 2	101.6	60.3	102
3.1/2 - 2.1/2	101.6	73	102
3.1/2 - 3	101.6	88.9	102
4 - 1.1/2	114.3	48.3	102
4 - 2	114.3	60.3	102

4 - 2.1/2	114.3	73	102
4 - 3	114.3	88.9	102
4 - 3.1/2	114.3	101.6	102
5 - 2	141.3	60.3	127
5 - 2.1/2	141.3	73	127
5 - 3	141.3	88.9	127
5 - 3.1/2	141.3	101.6	127
5 - 4	141.3	114.3	127
6 - 2.1/2	168.3	73	140
6 - 3	168.3	88.9	140
6 - 3.1/2	168.3	101.6	140
6 - 4	168.3	114.3	140
6 - 5	168.3	141.3	140
8 - 3.1/2	219.1	101.6	152
8 - 4	219.1	114.3	152
8 - 5	219.1	141.3	152
8 - 6	219.1	168.3	152
10 - 4	273	114.3	178
10 - 5	273	141.3	178
10 - 6	273	168.3	178
10 - 8	273	219.1	178
12 - 5	323.9	141.3	203
12 - 6	323.9	168.3	203
12 - 8	323.9	219.1	203
12 - 10	323.9	273	203
14 - 6	355.6	168.3	330
14 - 8	355.6	219.1	330
14 - 10	355.6	273	330
14 - 12	355.6	323.9	330
16 - 8	406.4	219	356
16 - 10	406.4	273	356
16 - 12	406.4	323.9	356
16 - 14	406.4	355.6	356
18 - 10	457	273	381
18 - 12	457	323.9	381
18 - 14	457	355.6	381
18 - 16	457	406.4	381

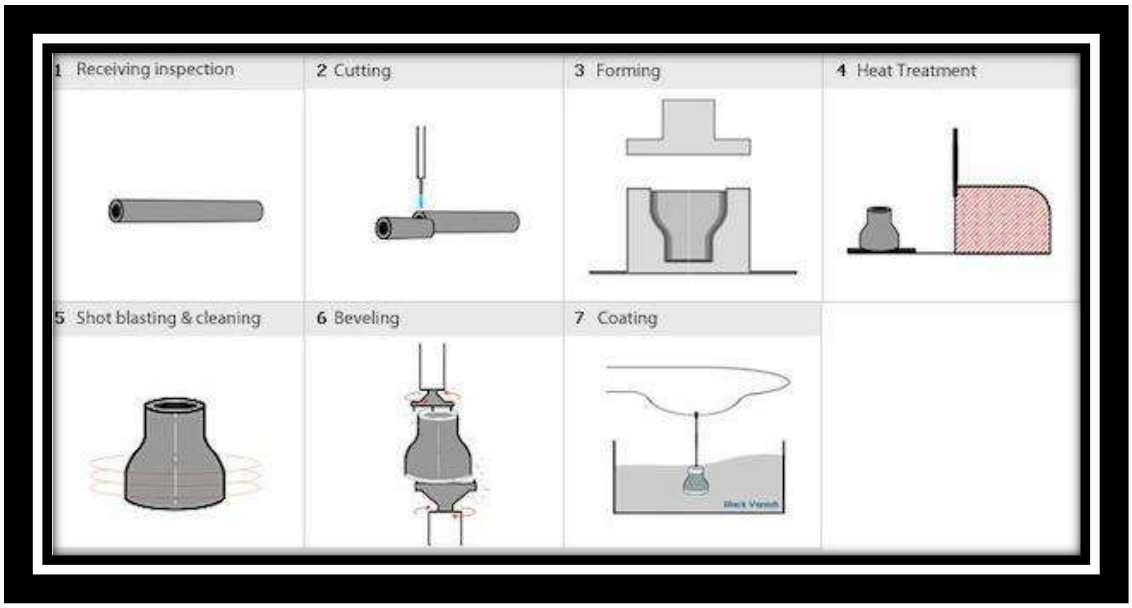
Eccentric Reducer Dimensions



Diameter		O.D. Of D1*D2		End-End
DN	Normal Pipe Size	Series (A)	Series (B)	(H)
20×15	3/4×1/2	26.9×21.3	25×18	38
20×10	3/4×3/8	26.9×17.3	25×14	38
25×20	1×3/4	33.7×26.9	32×25	51
25*15	1*1/2	33.7*21.3	32*18	51
32*25	1.1/4*1	42.4*33.7	38*32	51
32*20	1.1/4*3/4	42.4*26.9	38*25	51
32*15	1.1/4*1/2	42.4*21.3	38*18	51
40*32	1.1/2*1.1/4	48.3*42.4	45*38	64
40*25	1.1/2*1	48.3*33.7	45*32	64
40*20	1.1/2*3/4	48.3*26.9	45*25	64
40*15	1.1/2*1/2	48.3*21.3	45*18	64
50*40	2*1.1/2	60.3*48.3	57*45	76
50*32	2*1.1/4	60.3*42.4	57*38	76
50*25	2*1	60.3*33.7	57*32	76
50*20	2*3/4	60.3*26.9	57*25	76
65*50	2.1/2*2	73.0*60.3	76*57	89
65*40	2.1/2*1.1/2	73.0*48.3	76*45	89
65*32	2.1/2*1.1/4	73.0*42.4	76*38	89
65*25	2.1/2*1	73.0*33.7	76*32	89
80*65	3*2.1/2	88.9*73.0	89*76	89
80*50	3*2	88.9*60.3	89*57	89
80*40	3*1.1/2	88.9*48.3	89*45	89
80*32	3*1.1/4	88.9*42.4	89*38	89
90*80	3.1/2*3	101.6*88.9	-	102
90*65	3.1/2*2.1/2	101.6*73.0	-	102
90*50	3.1/2*2	101.6*60.3	-	102
90*40	3.1/2*1.1/2	101.6*48.3	-	102
90*32	3.1/2*1.1/4	101.6*42.4	-	102
100*90	4*3.1/2	114.3*101.6	-	102
100*80	4*3	114.3*88.9	108*89	102

100*65	4*2.1/2	114.3*73.0	108*76	102
100*50	4*2	114.3*60.3	108*57	102
100*40	4*1.1/2	114.3*48.3	108*45	102
125*100	5*4	141.3*114.3	133*108	127
125×90	5×3.1/2	141.3×101.6	-	127
125*80	5*3	141.3*88.9	133*89	127
125*65	5*2.1/2	141.3*73.0	133*76	127
125*50	5*2	141.3*60.3	133*57	127
150*125	6*5	168.3*141.3	159*133	140
150*100	6*5	168.3*114.3	159*108	140
150*90	6*3.1/2	168.3*101.6	-	140
150*80	6*3	168.3*88.9	159*89	140
150*65	6*2.1/2	168.3*73.0	159*76	140
200*150	8*6	219.1*168.3	219*159	152
200*125	8*5	219.1*141.3	219*133	152
200*100	8*4	219.1*114.3	219*108	152
200*90	8*3.1/2	219.1*101.6	-	152
250*200	10*8	273.0*219.1	273*219	178
250*150	10*6	273.0*168.3	273*159	178
250*125	10*5	273.0*141.3	273*133	178
250*100	10*4	273.0*114.3	273*108	178
300*250	12*10	323.9*273.1	325*273	203
300*200	12*8	323.9*219.1	325*219	203
300*150	12*6	323.9*168.3	325*159	203
300*125	12*5	323.9*141.3	325*133	203
350*300	14*12	355.6*323.9	377*325	330
350*250	14*10	355.6*273.0	377*273	330
350*200	14*8	355.6*219.1	377*219	330
350*150	14*6	355.6*168.3	377*159	330
400*350	16*14	406.4*355.6	426*377	356
400*300	16*12	406.4*323.9	426*325	356
400*250	16*10	406.4*273.0	426*273	356
400*200	16*8	406.4*219.1	426*219	356
450*400	18*16	457*406.4	478*426	381

Buttweld Reducer Manufacturing Process (Cold forming)



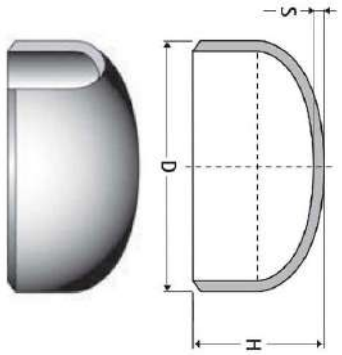
Applications :

- *Pharmaceutical fitting*
- *Gas fittings*
- *Refrigerant fittings*
- *Air brake fitting*
- *Hydraulic and pneumatic systems*

Advantages :

- *Reducer are used to connect a larger size pipe to a smaller size pipe.*
- *The pipes have identical centre points in the cone-shaped concentric reducer, in contrast to mismatched centre lines in the eccentric ones*

Pipe Cap Dimensions



Normal Pipe Size	Outside Diameter Of (D)	Caps Length Of (H)	Length Of H(1)
1/2	21.3	25	25
3/4	26.7	25	25
1	33.4	38	38
1.1/4	42.2	38	38
1.1/2	48.3	38	38
2	60.3	38	44
2.1/2	73	38	51
3	88.9	51	64
3.1/2	101.6	64	76
4	114.3	64	76
5	141.3	76	89
6	168.3	89	102
8	219.1	102	127
10	273	127	152
12	323.8	152	178
14	355.6	165	191
16	406.4	178	203
18	457	203	229
20	508	229	254
22	559	254	254
24	610	267	305
26	660	267	-
28	711	267	-
30	762	267	-
32	813	267	-
34	864	237	-
36	914	267	-
38	965	305	-
40	1016	305	-

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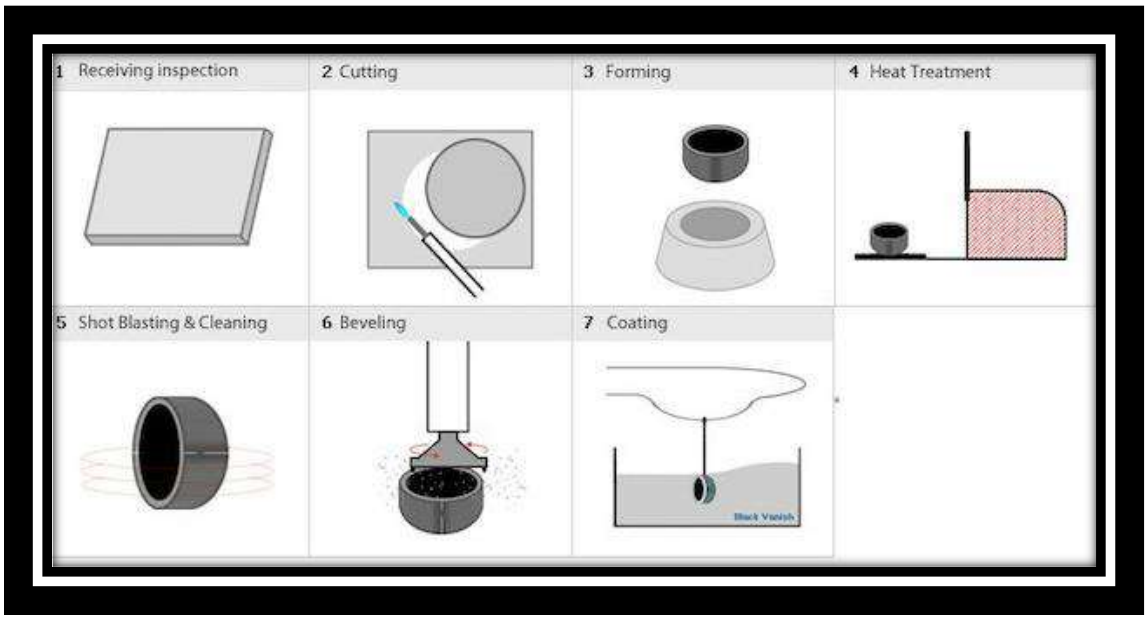
Buttweld Cap Manufacturing Process



Pipe Cap Shapes :

- *Round*
- *Square*
- *"U" & "I" Shape*
- *Hex*
- *Rectangle*

Pipe Cap Types :

- *Threaded Cap*
- *Tapered Cap*
- *Anti-roll Cap*

Surface Treatment :

- *Rust-proof black oil and hot galvanized*
- *Depending on their construction, pipe caps contain tapered caps or threaded caps*

Check Weight Chart

DN	10S SCH			40S SCH			80S SCH		
	90 Deg Elbow	45 Deg Elbow	Equal tee	90 Deg Elbow	45 Deg Elbow	Equal tee	90 Deg Elbow	45 Deg Elbow	Equal tee
8	0.02	0.01	0.03	0.03	0.02	0.06	0.04	0.03	0.07
10	0.03	0.02	0.05	0.03	0.02	0.03	0.06	0.04	0.09
15	0.06	0.03	0.09	0.08	0.04	0.10	0.10	0.05	0.14
20	0.07	0.03	0.13	0.08	0.04	0.17	0.11	0.05	0.20
25	0.14	0.08	0.28	0.15	0.11	0.29	0.22	0.14	0.38
32	0.23	0.11	0.49	0.26	0.17	0.59	0.40	0.23	0.68
40	0.30	0.17	0.68	0.40	0.23	0.86	0.51	0.29	1.02
50	0.50	0.25	0.85	0.70	0.4	1.28	0.91	0.59	1.59
65	0.85	0.48	1.41	1.40	0.77	2.19	1.81	0.99	3.13
80	1.25	0.63	1.77	2.20	1.08	3.31	2.97	1.50	4.45
90	1.70	0.75	2.67	2.83	1.42	4.08	4.00	2.00	5.44
100	2.10	1.08	3.46	4.47	2.09	5.27	6.18	2.81	7.71
150	5.45	2.72	8.07	10.89	5.44	10.99	16.32	8.16	13.61
200	10.20	5.33	15.65	21.54	10.77	20.91	33.11	16.56	28.12
250	18.15	9.75	26.46	38.56	19.27	35.38	51.71	25.86	49.90
300	25.80	13.62	39.46	59.42	29.71	62.14	79.38	39.69	83.91

DN	10S SCH			40S SCH					
	Concentric reducer	Eccentric reducer	Reducing tee	Concentric reducer	Eccentric reducer	Reducing tee			
40x.25	0.19	0.19	0.60	0.26	0.26	0.76			
50x25	0.28	0.28	0.73	0.40	0.40	1.10			
50x40	0.31	0.31	0.76	0.45	0.45	1.15			
80x.50	0.55	0.55	1.56	1.00	1.00	2.91			
100x50	0.78	0.78	2.94	1.50	1.50	4.48			
100x80	0.87	0.87	3.04	1.74	1.74	4.64			
150x80	1.82	1.82	6.86	3.95	3.95	9.68			
150x100	1.96	1.96	7.10	4.07	4.07	11.94			
200x100	3.01	3.01	13.46	6.55	6.55	17.98			
200x150	3.19	3.19	14.08	6.74	6.74	18.82			

Tolerances

ASME B16.9 Type				45 And 90 degree elbow	180 Degree Returns		
NPS	Outside Diameter at Bevel	Inside Diameter at End	WT t / t1	Center to End Daimeter (A-B-C-M)	Center to Center Daimeter (O)	Back-Face Daimeter (K)	Align-ment of Ends (U)
1/2 a 2 1/2	1	0,8	Not	2	7	7	1
3 a 3 1/2	1	1,6	less	2	7	7	1
4	+2 -1	1,6	than	2	7	7	1
5 a 6	+3 -1	1,6	87,50%	2	7	7	1
8	2	1,6	of nominal	2	7	7	1
10	+4 -3	3,2	WT	2	7	7	2
12 a 18	+4 -3	3,2	3	10	7	2	
20 a 24	+6 -5	4,8	3	10	7	2	
26 a 30	+7 -5	4,8	3	-	-	-	-
32 a 48	+7 -5	4,8	5	-	-	-	-

Reducer Tolerance

NPS	Outer Diameter at Bevel	Inner Diameter at End	Wall Thickness Of t / t1	Overall Length Of H
1/2 a 2 1/2	1	0,8	Not	2
3 a 3 1/2	1	1,6	less	2
4	+2 -1	1,6	than	2
5 a 6	+3 -1	1,6	87,50%	2
8	2	1,6	of nominal	2

Stub End

NPS	1/2 to 2.1/2	3 to 3.1/2	4	5 to 8	10 to 18	20 to 24
O.D. at Welding End	+ 1.6 - 0.8	1.6	1.6	+ 2.29 - 1.6	+ 4.06 - 3.05	+ 6.35 - 4.83
Overall Length Of (F)	1.6	1.6	1.6	1.6	2	2
Lap O.D. (G)	+ 0 - 0.76	+ 0 - 0.76	+ 0 - 0.76	+ 0 - 0.76	+ 0 - 1.6	+ 0 - 1.6
Lap Thickness (T)	+ 1.52 - 0	+ 1.52 - 0	+ 1.52 - 0	+ 1.52 - 0	+ 1.52 - 0	+ 1.52 - 0
Lap Fillet Radius (R)	+ 0 - 0.76	+ 0 - 0.76	+ 0 - 1.6	+ 0 - 1.6	+ 0 - 1.6	+ 0 - 1.6

End Cap Tolerance

NPS	1/2 to 2.1/2	3 to 3.1/2	4	5 to 8
O.D. at Bevel (D)	+ 1.6 - 0.8	1.6	1.6	+ 2.4 - 1.6
I.D. at End	0.8	1.6	1.6	1.6
Overall Length Of(H)	3	3	3	6
NPS	10 to 18	20 to 24	26 to 30	32 to 48
O.D. at Bevel (D)	+ 4 - 3.2	+ 6.4 - 4.8	+ 6.4 - 4.8	+ 6.4 - 4.8
I.D. at End	3.2	4.8	+ 6.4 - 4.8	+ 6.4 - 4.8
Overall Length Of (H)	6	6	10	10
WT (T)	Not less than 87.5% of Nominal Wall Thickness			

Wall Thickness

NPS	Number Of SCH	O.D. In inches MM	WT In inches mm	Mass lb/ft kg/m
1/8 6	5S	0.405 10.3	...	...
1/8 6	10S	0.405 10.3	0.049 1.24	0.19 0.28
1/8 6	40S	0.405 10.3	0.068 1.73	0.24 0.37
1/8 6	80S	0.405 10.3	0.095 2.41	0.31 0.47
1/4 8	5S	0.540 13.7	...	...
1/4 8	10S	0.540 13.7	0.065 1.65	0.33 0.49
1/4 8	40S	0.540 13.7	0.088 2.24	0.43 0.63
1/4 8	80S	0.540 13.7	0.119 3.02	0.54 0.80
3/8 10	5S	0.675 17.1	...	...
3/8 10	10S	0.675 17.1	0.065 1.65	0.42 0.63
3/8 10	40S	0.675 17.1	0.091 2.31	0.57 0.84
3/8 10	80S	0.675 17.1	0.126 3.20	0.74 1.10
1/2 15	5S	0.840 21.3	0.065 1.65	0.54 0.80
1/2 15	10S	0.840 21.3	0.083 2.11	0.67 1.00
1/2 15	40S	0.840 21.3	0.109 2.77	0.85 1.27
1/2 15	80S	0.840 21.3	0.147 3.73	1.09 1.62
3/4 20	5S	1.050 26.7	0.065 1.65	0.68 1.02

3/4 20	10S	1.050 26.7	0.083 2.11	0.86 1.28
3/4 20	40S	1.050 26.7	0.113 2.87	1.13 1.69
3/4 20	80S	1.050 26.7	0.154 3.91	1.48 2.20
1 25	5S	1.315 33.4	0.065 1.65	0.68 1.02
1 25	10S	1.315 33.4	0.083 2.11	0.86 1.28
1 25	40S	1.315 33.4	0.133 3.38	1.68 2.50
1 25	80S	1.315 33.4	0.179 4.55	2.17 3.24
1-1/4 32	5S	1.660 42.2	0.065 1.65	1.11 1.65
1-1/4 32	10S	1.660 42.2	0.109 2.77	1.81 2.69
1-1/4 32	40S	1.660 42.2	0.140 3.56	2.27 3.39
1-1/4 32	80S	1.660 42.2	0.191 4.85	3.00 4.47
1-1/2 40	5S	1.900 48.3	0.065 1.65	1.28 1.90
1-1/2 40	10S	1.900 48.3	0.109 2.77	2.09 3.11
1-1/2 40	40S	1.900 48.3	0.145 3.68	2.72 4.05
1-1/2 40	80S	1.900 48.3	0.200 5.08	3.63 5.41
2 50	5S	2.375 60.3	0.065 1.65	1.61 2.39
2 50	10S	2.375 60.3	0.109 2.77	2.64 3.93
2 50	40S	2.375 60.3	0.154 3.91	3.66 5.44

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