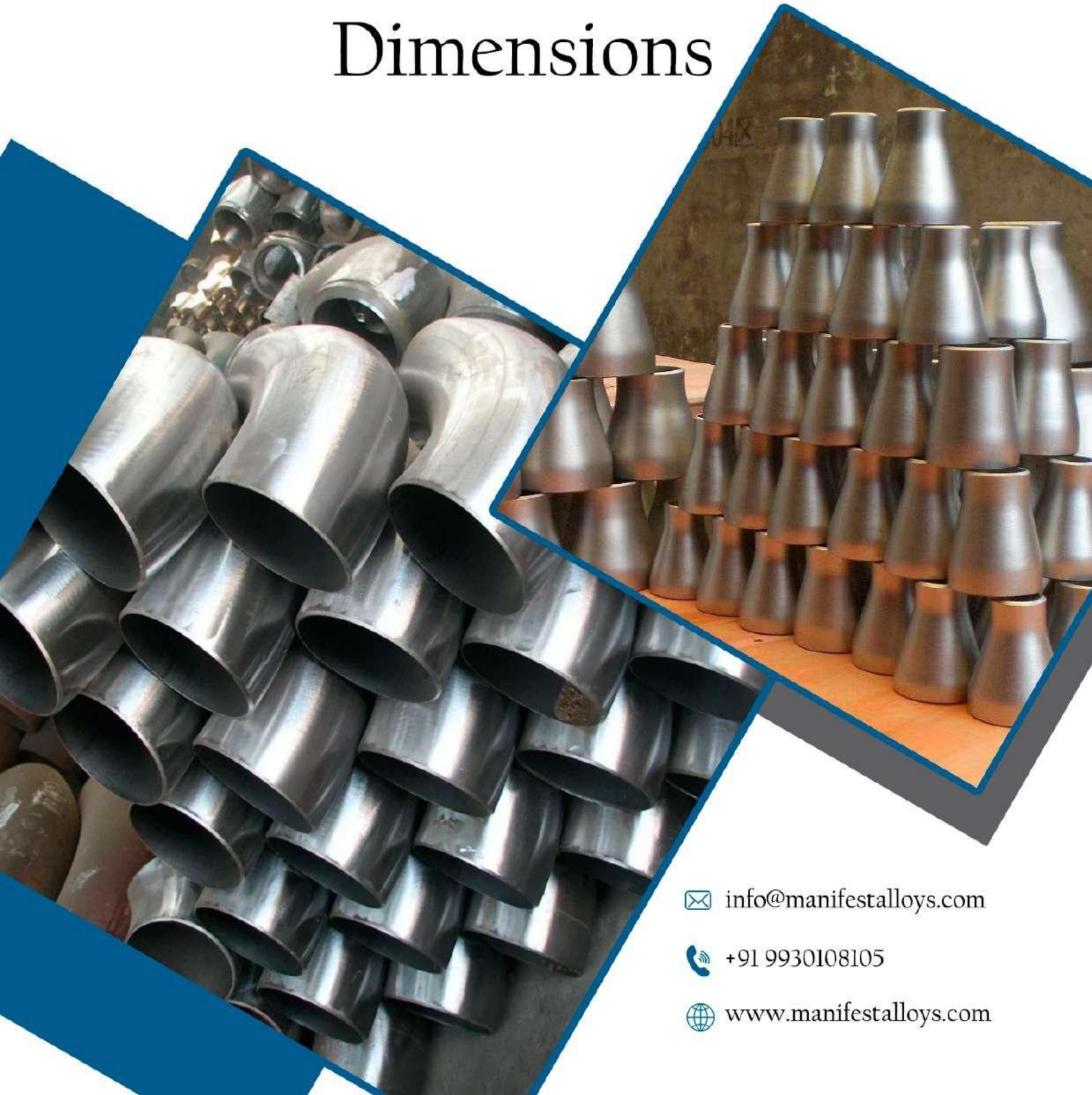
MANIFEST ALLOYS

Buttweld Pipe Fittings Dimensions



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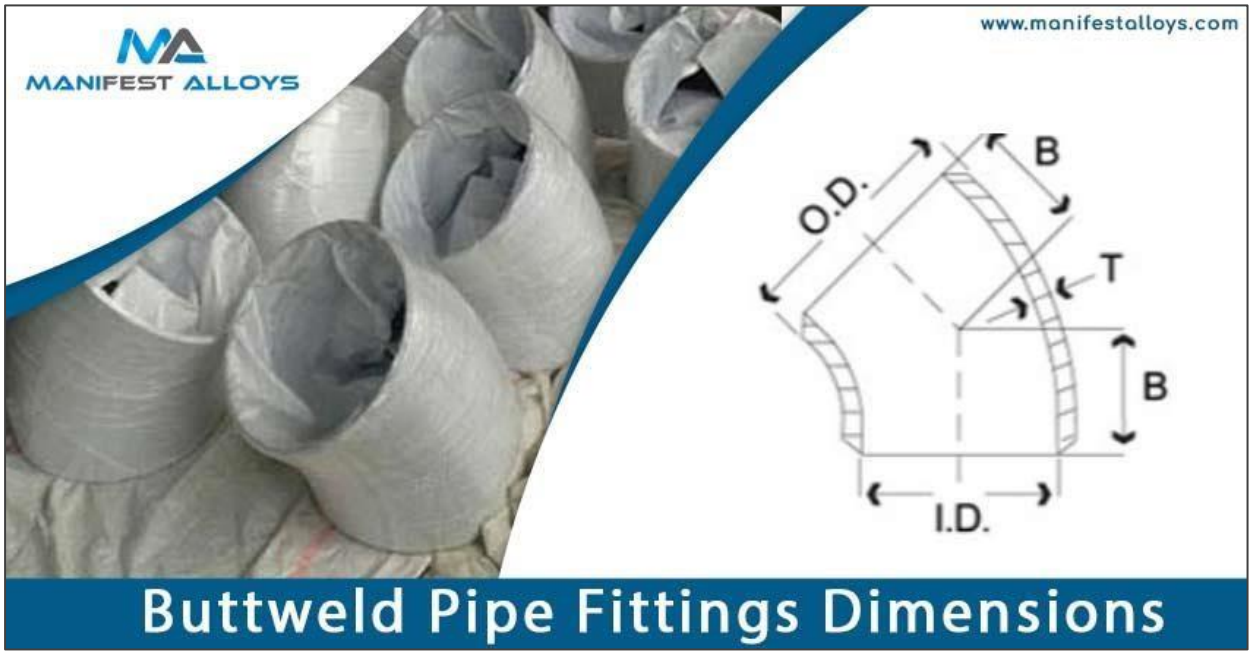
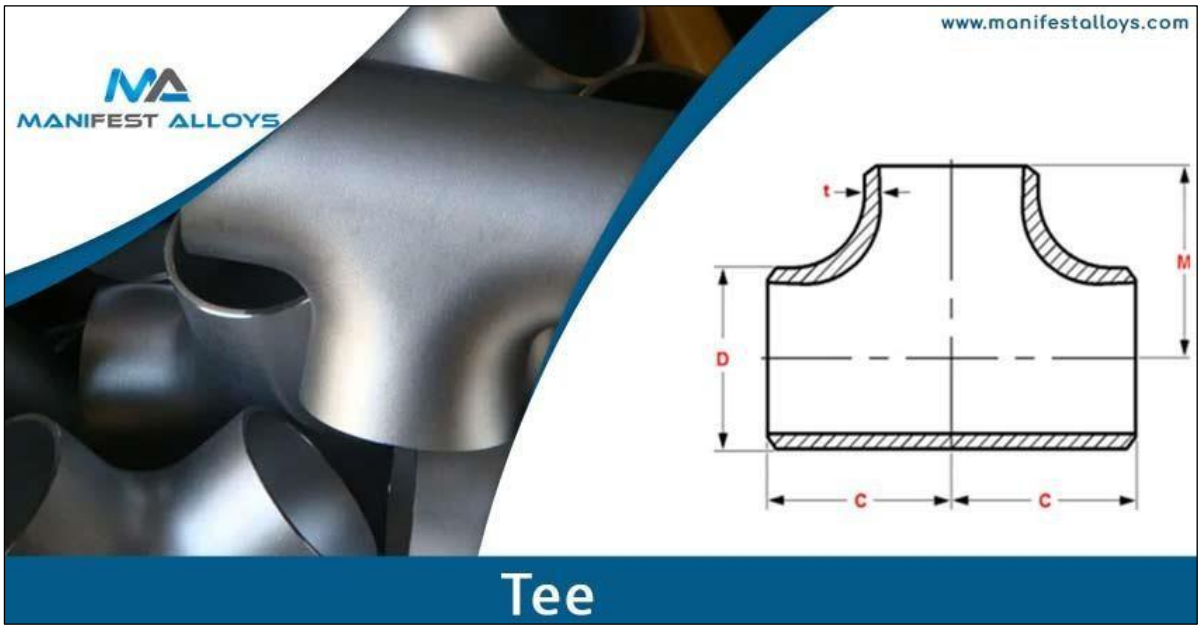


Size (Inch)	Schedule Weight in lbs		Dimensions	
	40	10	B	Outside Diameter
1/2"	0.090	0.070	0.62	0.840
1"	0.170	0.140	0.86	1.315
1-1/2"	0.420	0.320	1.12	1.90
2-1/2"	1.490	0.910	1.75	2.875
3-1/2"	3.280	1.790	2.25	4.00
5"	7.550	4.000	3.12	5.563
8"	23.50	11.10	5.00	8.625
10"	41.80	19.30	6.25	10.75
3/4"	0.090	0.070	0.44	1.050
1-1/4"	0.290	0.230	1.00	1.660
2"	0.750	0.540	1.36	2.375
3"	2.340	1.340	2.00	3.50

MANIFEST ALLOYS

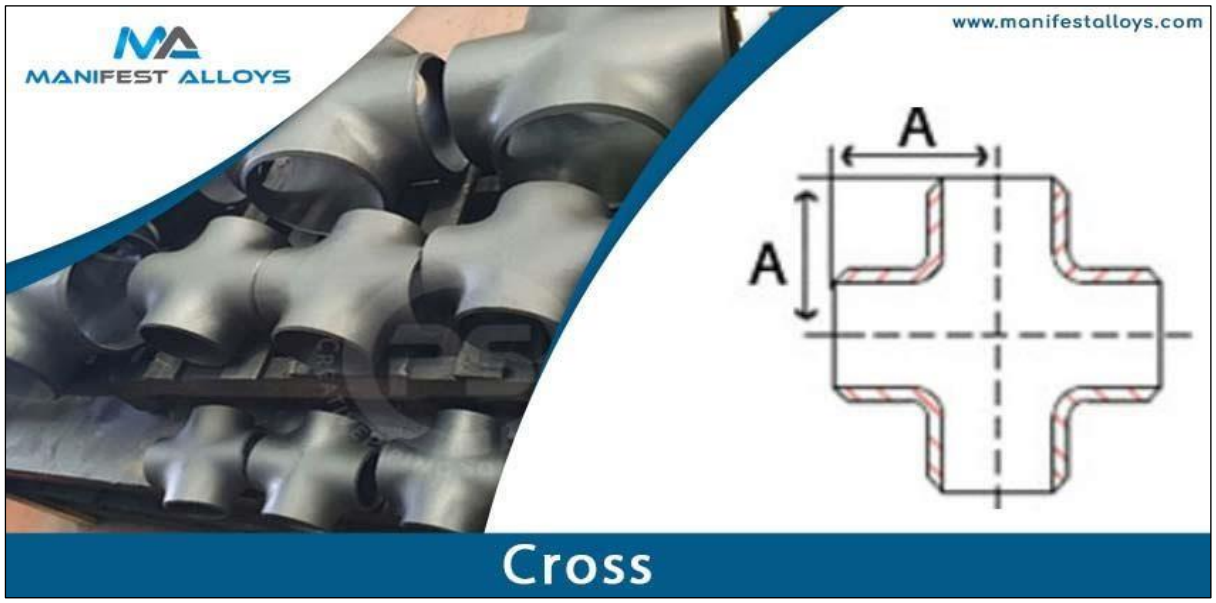
Buttweld Tee Pipe Fittings Dimensions



Size (Inch)	Schedule Weight in lbs		Dimensions	
	40	10	A	Outside Diameter
1/2"	0.300	0.230	1	0.840
1"	0.600	0.550	1.50	1.315
1-1/2"	1.610	1.610	2.25	1.90
2-1/2"	6.350	2.870	3.00	2.875
3-1/2"	11.40	4.800	3.75	4
5"	21.90	10.30	4.88	5.563
8"	61	24	7	8.625
10"	89	40	8.6	10.75
3/4"	0.470	0.300	1.125	1.050
1-1/4"	1.100	1.150	1.68	1.660
2"	4.160	1.720	2.50	2.375
3"	8.410	3.820	3.38	3.50
4"	13.20	5.800	4.12	4.50
6"	34.60	14.60	5.520	6.625
12"	145	56	10	12.75

MANIFEST ALLOYS

Buttweld Cross Pipe Fittings Dimensions



Size	Schedule Weight in lbs		Dimensions	
	40	10	A	Outside Diameter
3/4"	0.480	0.540	1.125	1.050
1-1/4"	1.320	1.260	1.68	1.660
2"	2.860	2.150	2.50	2.375
3"	7.370	4.480	3.38	3.50
4"	11.74	8.770	4.12	4.50
6"	24.49	20.47	5.520	6.625
10"	78.78	67.85	8.6	10.75
1/2"	0.336	0.378	1	0.840
1"	0.650	0.720	1.50	1.315
1-1/2"	1.910	1.720	2.25	1.90
2-1/2"	4.900	3.560	3.00	2.875
3-1/2"	9.090	6.760	3.75	4

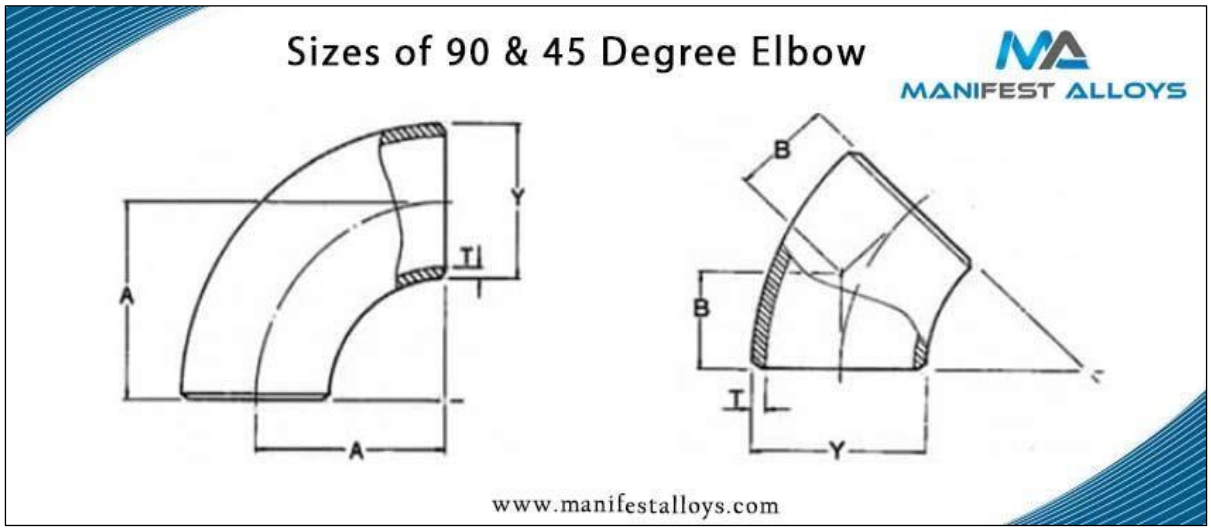
MANIFEST ALLOYS

Buttweld Cap Pipe Fittings Dimensions

Size's	Length		Outside Diameter
	H1	H	
1/2"	25	25	21.3
1"	38	38	33.4
1-1/2"	38	38	48.3
2-1/2"	51	38	73
3-1/2"	76	64	101.6
5"	89	76	141.3
8"	127	102	219.1
12"	178	152	323.8
16"	203	178	406.4
20"	254	229	508
22"	254	254	559
3/4"	25	25	26.7

MANIFEST ALLOYS

Pipe Fitting Size Chart



Size's	Outside Diameter (O.D)		180 degree Returns		45 degree Elbow		90 degree Elbow	
	mm	Inch	Long Radius	Short Radius	Long Radius	Short Radius	Long Radius	Short Radius
1/2"	0.84	21.3	1-7/8	2	-	5/8	-	1-1/2
1"	1.31	33.4	2-3/16	3	-	7/8	1	1-1/2
1-1/4"	1.66	42.2	2-3/4	3-3/4	-	1	1-1/4	1-7/8
1-1/2"	1.9	48.3	3-1/4	4-1/2	3	1-1/8	1-1/2	2-1/4
2-1/2"	2.87	73	5-3/16	7-1/2	5	1-3/4	2-1/2	3-3/4
12"	12.75	323.9	24-3/8	36	18	7-1/2	12	18
4"	4.5	114.3	8-1/4	12	8	2-1/2	4	6
10"	10.75	273.1	20-3/8	30	15	6-1/4	10	15

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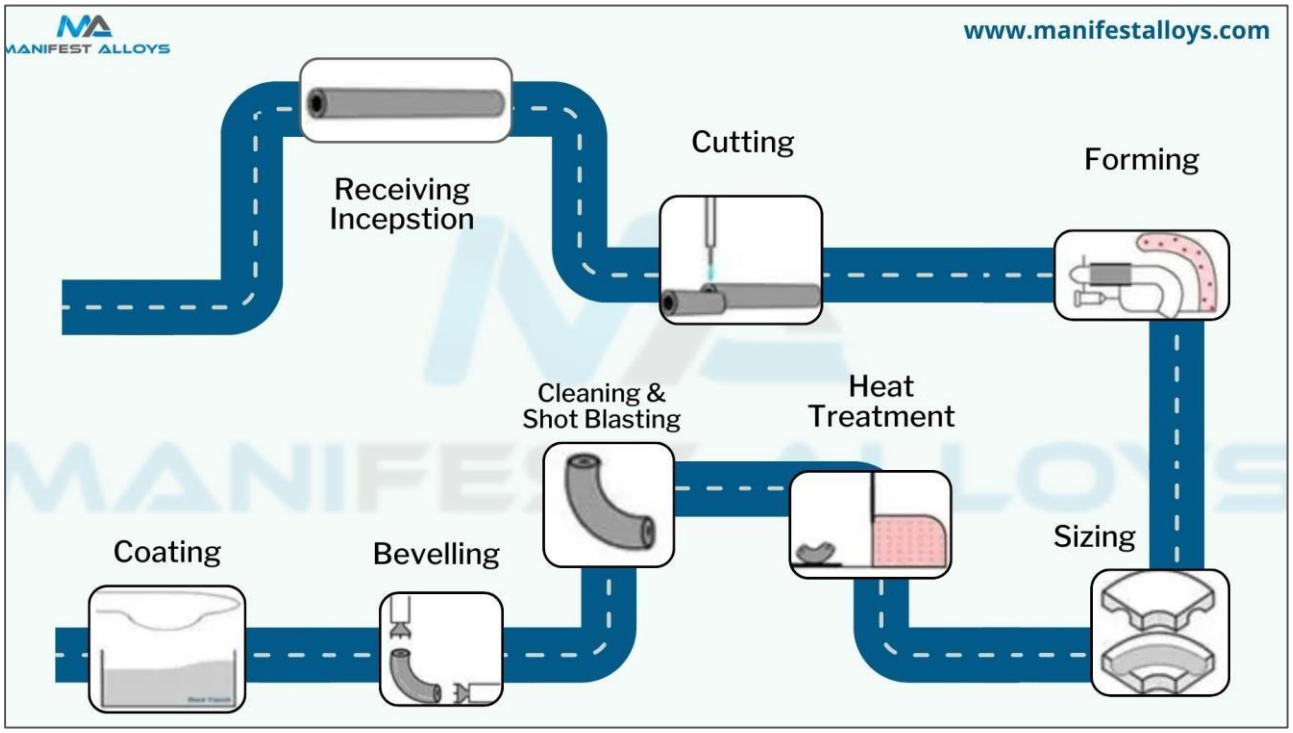
Pipe Fitting Pressure Rating Chart

Size's	Outside Diameter	Weight Chart (Kg)	Wall Thickness (Min)	Inside Diameter	Weight Pressure (Max)
1/4"	.540	.086	.088	.344	780
1/2"	.840	.170	.109	.602	590
1"	1.315	.333	.133	1.029	450
1-1/2"	1.900	.537	.145	1.590	330
2-1/2"	2.875	1.136	.203	2.445	300
3-1/2"	4	1.789	.226	3.521	240
5"	5.563	2.874	.258	5.016	190
8"	8.625	5.619	.322	7.942	160
12"	12.750	10.534	.406	11.889	130
24"	24	33.652	.687	22.544	120
16"	16	16.286	.500	14.940	130
20"	20	24.183	.593	18.743	120
3/8"	.675	.115	.091	.473	620
3/4"	1.050	.226	.113	.804	480
1-1/4"	1.660	.450	.140	1.360	370
2"	2.375	.720	.154	2.047	280
3"	3.500	1.488	.216	3.042	260
4"	4.500	2.118	.237	3.998	220
6"	6.625	3.733	.280	6.031	180
10"	10.750	7.966	.365	9.976	140
14"	14	12.462	.437	13.073	130
18"	18	20.587	.562	16.809	130

Elbow Fittings Weight

NPS	03/4	01/2	1	1.1/2	1.1/4	2	3	2.1/2	5	4	6
LBS	0.19	0.18	0.4	0.9	0.6	1.6	5	3.25	15	9	24.5
KG	0.09	0.08	0.18	0.41	0.27	0.73	2.27	1.47	6.8	4.08	11.11
NPS	10	8	12	16	14	18	22	20	30	26	36
LBS	88	50	125	206	160	260	394	320	734	550	1062
KG	39.92	22.68	56.7	93.44	72.57	117.93	178.72	145.15	332.94	249.48	481.72

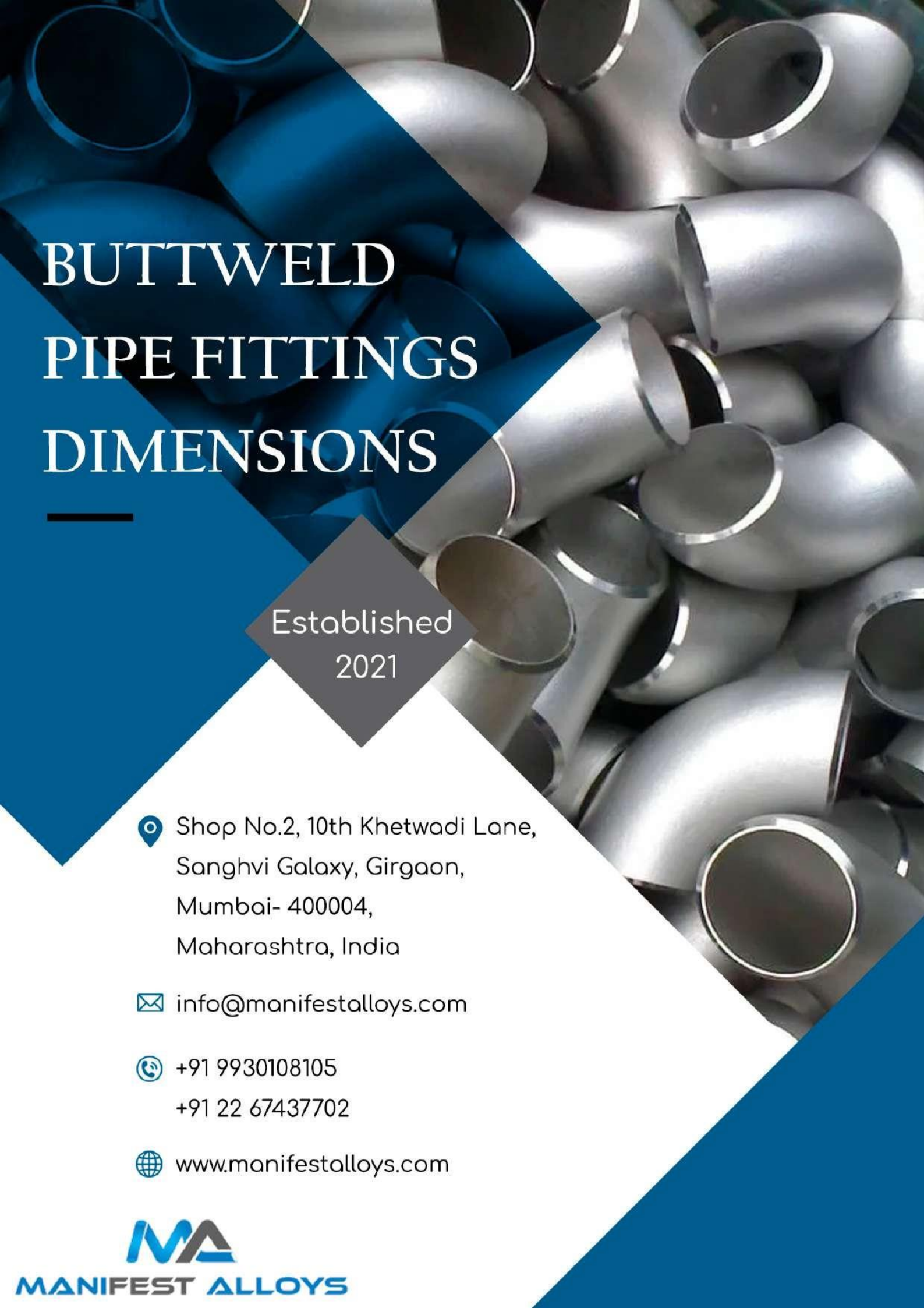
Seamless Pipe Fittings Manufacturing Process



- Raw material preparation
- Forming the pipe fitting : hot forming, Extrusion, Hydraulic bulge, Forging
- Quality control

Pipe Fittings HSN Code

Grade	Value
Buttweld Pipe Fittings	73079990



BUTTWELD PIPE FITTINGS DIMENSIONS

Established
2021

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