

Pipe Tee Dimensions



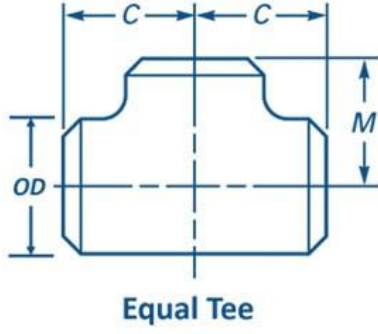
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اكتشف المبيعات والموردين المعتمدين في الشرق الأوسط

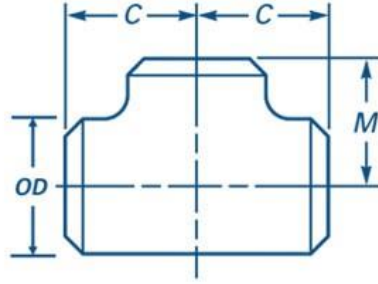
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أبعاد تي شيرت متساوية

Equal tee dimensions

NPS	O.D.	CENTER TO END	LENGTH
Inches	Outside Diameter	C	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	273.1	216	216
12	323.9	254	254



Equal Tee



أبعاد تي شيرت متساوية

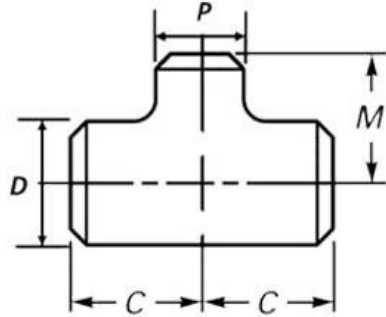
Equal tee dimensions

NPS	O.D.	CENTER TO END	LENGTH
Inches	Outside Diameter	C	M
14	355.6	279	279
16	406.4	305	305
18	457.2	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
32	813	597	597
34	864	635	635
36	914	673	673
38	965	711	711
40	1016	749	749
42	1067	762	711
44	1118	813	762
46	1168	851	800
48	1219	889	838



تقليل أبعاد نقطة الإنطلاق

Reducing tee dimensions

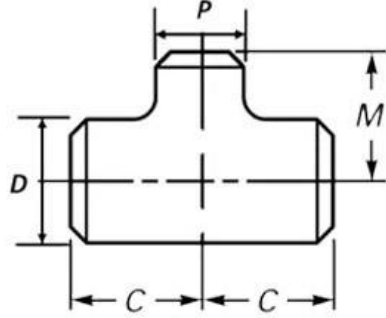


NPS	O.D.		CENTER TO END	
	D	P	C	M
Inches	D	P	C	M
1/2 x 3/8	21.3	17.1	25	25
1/2 x 1/4	21.3	13.7	25	25
3/4 x 1/2	26.7	21.3	29	29
3/4 x 3/8	26.7	17.1	29	29
1 x 3/4	33.4	26.7	38	38
1 x 1/2	33.4	21.3	38	38
1 1/4 x 1	42.2	33.4	48	48
1 1/4 x 3/4	42.2	26.7	48	48
1 1/4 x 1/2	42.2	21.3	48	48
1 1/2 x 1 1/2	48.3	42.2	57	57
1 1/2 x 1	48.3	33.4	57	57
1 1/2 x 3/4	48.3	26.7	57	57
1 1/2 x 1/2	48.3	21.3	57	57
2 x 1 1/2	60.3	48.2	64	60
2 x 1 1/4	60.3	42.2	64	57
2 x 1	60.3	33.4	64	51
2 x 3/4	60.3	26.7	64	44
2 1/2 x 2	73	60.3	76	70



تقليل أبعاد نقطة الإنطلاق

Reducing tee dimensions

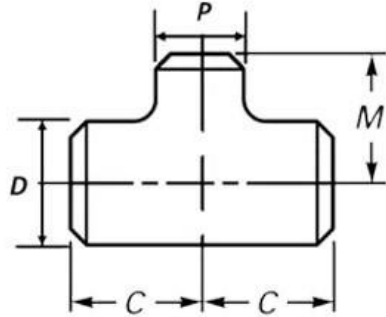


NPS	O.D.		CENTER TO END	
	D	P	C	M
Inches	D	P	C	M
2 1/2 x 1 1/4	73	42.2	76	64
2 1/2 x 1	73	33.4	76	57
3 x 2 1/2	88.9	73	86	83
3 x 2	88.9	60.3	86	76
3 x 1 1/2	88.9	48.3	86	73
3 x 1 1/4	88.9	42.2	86	70
3 1/2 x 3	101.6	88.9	95	92
3 1/2 x 2 1/2	101.6	73	95	89
3 1/2 x 2	101.6	60.3	95	83
3 1/2 x 1 1/2	101.6	48.3	95	79
4 x 3 1/2	114.3	101.6	105	102
4 x 3	114.3	88.9	105	98
4 x 2 1/2	114.3	73	105	95
4 x 2	114.3	60.3	105	89
4 x 1 1/2	114.3	48.3	105	86
5 x 4	141.3	114.3	124	117
5 x 3 1/2	141.3	101.6	124	114



تقليل أبعاد نقطة الإنطلاق

Reducing tee dimensions

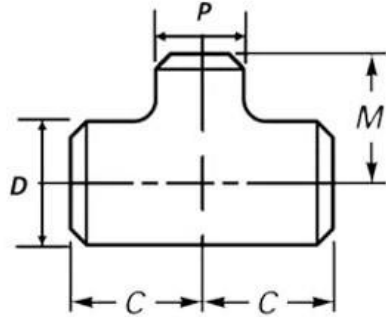


NPS	O.D.		CENTER TO END	
	D	P	C	M
Inches	D	P	C	M
5 x 3	141.3	88.9	124	111
5 x 2 1/2	141.3	73	124	108
5 x 2	141.3	60.3	124	105
6 x 5	168.3	141.3	143	137
6 x 4	168.3	114.3	143	130
6 x 3 1/2	168.3	101.6	143	127
6 x 3	168.3	88.9	143	124
6 x 2 1/2	168.3	73	143	121
8 x 6	219.1	168.3	178	168
8 x 5	219.1	141.3	178	162
8 x 4	219.1	114.3	178	156
8 x 3 1/2	219.1	101.6	178	152
10 x 8	273.1	219.1	216	203
10 x 6	273.1	168.1	216	194
10 x 5	273.1	141.3	216	191
10 x 4	273.1	114.3	216	184
12 x 10	323.9	273.1	254	241
12 x 8	323.9	219.1	254	229



تقليل أبعاد نقطة الإنطلاق

Reducing tee dimensions

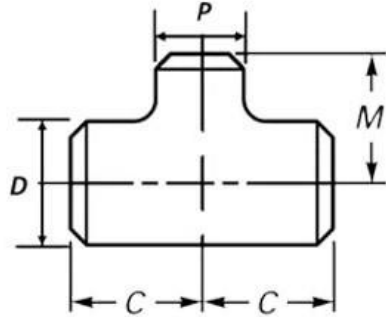


NPS	O.D.		CENTER TO END	
	D	P	C	M
Inches	D	P	C	M
12 x 6	323.9	168.3	254	219
12 x 5	323.9	141.3	254	216
14 x 12	355.6	323.9	279	270
14 x 10	355.6	273.1	279	257
14 x 8	355.6	219.1	279	248
14 x 6	355.6	168.3	279	238
16 x 14	406.4	355.6	305	305
16 x 12	406.4	323.9	305	295
16 x 10	406.4	273.1	305	283
16 x 8	406.4	219.1	305	273
16 x 6	406.4	168.3	305	264
18 x 16	457	406.4	343	330
18 x 14	457	355.6	343	330
18 x 12	457	323.9	343	321
18 x 10	457	273.1	343	308
18 x 8	457	219.1	343	298
20 x 18	508	457	381	368



تقليل أبعاد نقطة الإنطلاق

Reducing tee dimensions



NPS	O.D.		CENTER TO END	
	D	P	C	M
Inches				
20 x 16	508	406.4	381	356
20 x 14	508	355.6	381	356
20 x 12	508	323.9	381	346
20 x 10	508	273.1	381	333
20 x 8	508	219.1	381	324
22 x 20	559	508	419	406
22 x 18	559	457	419	394
22 x 16	559	406.4	419	381
22 x 14	559	355.6	419	381
22 x 12	559	323.9	419	371
24 x 10	559	273.1	419	359
24 x 22	610	559	432	432
24 x 20	610	508	432	432
24 x 18	610	457	432	419
24 x 16	610	406.4	432	406
24 x 14	610	355.6	432	406
24 x 12	610	323.9	432	397
24 x 10	610	273.1	432	384



التحمل الأبعاد المستقيم

Straight tee dimensional tolerances

NPS	1/2 to 2.1/2	3 to 3.1/2	4	5 to 8	10 to 18	20 to 24	26 to 30	32 to 48
O.D. at Bevel (D)	+1.6 -0.8	1.6	1.6	+2.4 -1.6	+4 -3.2	+6.4 -4.8	+6.4 -4.8	+6.4 -4.8
I.D. at End	0.8	1.6	1.6	1.6	3.2	4.8	+6.4 -4.8	+6.4 -4.8
Center to End (C / M)	2	2	2	2	2	2	3	5
Wall Thickness (t)	Not less than 87.5% of Nominal Wall Thk							

Finishes on Carbon Steel Tee

نصم لآ ق الطن إلآ هطقن لى ع تآب يطفن تآلآ
ينوب رآقنآ بل ص لآ ن م ه ع

Some common finishes are like:

- Nickel plated
- Electroplated
- Black cast
- White coating
- Gold finish
- Galvanized finish





التحمل الأبعاد غير المتكافئ

Unequal tee dimensional tolerances



NPS	1/2 to 2.1/2	3 to 3.1/2	4	5 to 8	10 to 18	20 to 24	26 to 30	32 to 48
O.D. at Bevel (D)	+1.6 -0.8	1.6	1.6	+2.4 -1.6	+4 -3.2	+6.4 -4.8	+6.4 -4.8	+6.4 -4.8
I.D. at End	0.8	1.6	1.6	1.6	3.2	4.8	+6.4 -4.8	+6.4 -4.8
Center to End (C / M)	2	2	2	2	2	2	3	5
Wall Thickness (t)	Not less than 87.5% of Nominal Wall Thk							

Specification

من يصف خت

Coating : Anti-rust Paint/ Zinc Plated

Method : Buttweld, Welded, Seamless

NPS : 1/2"-48" (DN15-DN1200)

Types : Equal and Reducing tee

Bend radius : SCH5S To SCH160 ,XXS

Thickness : 2~100 MM

Production: Heat treated and machined





مخطط حجم تي شيرات الأنابيب

Pipe tee size chart

NPS		O.D. at Bevel		Center to End	
DN	Inches	D		C	M
		Series A	Series B		
15	1/2	21.3	18	25	
20	3/4	26.9	25	29	
25	1	33.7	32	38	
32	1 1/4	42.4	38	48	
40	1 1/2	48.3	45	57	
50	2	60.3	57	64	
65	2 1/2	76.1(73)	76	76	
80	3	88.9	89	86	
90	3 1/2	101.6	—	95	
100	4	114.3	108	105	
125	5	139.7	133	124	
150	6	168.3	159	143	
200	8	219.1	219	178	
250	10	273.0	273	216	
300	12	323.9	325	254	
350	14	355.6	377	279	
400	16	406.4	426	305	
450	18	457.2	478	343	
500	20	508.0	529	381	



أنواع شائعة من تي شيرت أنبوب الفولاذ

Common Types of Steel Pipe Tee



Equal Tee



Reducing Tee



Flanged Tee



Straight Tee



Unequal Tee



Fabricated Tee



Pigged Tee



Saddle Tee



Flow Tee



What is center to end in equal tee dimensions?

Tees are favored components across industries like textiles, wastewater treatment, petroleum, etc., to distribute the fluids in different directions. A tee fitting is T-shaped with two outlets at 90° to the main line. The center-to-end distance is a crucial measurement for these fittings. It denotes the distance from the exact central point of the fitting to the axis of the pipe.

Equal tee dimensions comprise the same size openings on all sides. The center-to-end metric becomes smaller as the nominal size of the pipe increases.

Manufacturers generally issue a pipe tee size chart that shows the center-to-end dimensions for straight tees of nominal sizes ranging from 2 inches to 48 inches.

What is the outside diameter in reducing tee dimensions?

Unequal tees connect pipes that are unequal in diameter and can have branch connections at angles like 90, 45 degrees, etc. A reducing carbon steel tee has at least one of the outlets smaller in diameter than the others. While measuring the dimensions, the outside diameter refers to the diameter of the branch. It must match the pressure rating and flow requirements of the system.

The diameter and wall thickness of the tee are the metrics used for selecting the appropriate fitting. It gets used in conjunction with the center-to-center dimensions for the branch and the length.

How to make a straight tee pattern?



Straight tee fittings are ubiquitous across diverse industries, helping branch out fluids at 90 degrees. These T-shaped components create perpendicular connections to the pipe. While drawing a straight tee pattern, you must determine the center-to-end length of the header.

You also need to measure the length of the branch of the tee. You can find these metrics in charts that show the dimensions for welded fittings and flanges.

It is crucial to note that the center-to-end measurement covers the header and the branch. So, the total length in the equal tee dimensions will be twice this metric.

How do you write pipe tee size?

The sizes of pipe tee are written in inches based on the kind of fitting, say, butt weld tee and socket weld tee. The dimensions for a pipe tee include the length of the fitting and the thickness class range, i.e., the schedule. You can also use millimeters to write the dimensions.

For example, butt weld tees are usually available from 1/2" to 48". The thickness ranges from SCH 10 to SCH 160. If you need socket weld tees, your options may be from 3/8" to 4". The pressure rating is also included in the equal tee fitting, for instance, 6000 psi.

What's the branch of an unequal tee?

A branch of tee fittings implies that they tape from the pipeline at different curvatures, like 90 degrees. Angles of 45 degrees are also standard in reducing tee dimensions. You can have them of the same size or use a reducing type. An unequal or reducer tee has one opening of a different size and two of the same. In the latter, the diameter of the branch is different from the existing pipeline.

Note that while the branch size can be smaller than the pipe size, it cannot be more. For instance, you can find branches up to 6 inches for reducing tees for 16-inch pipes. The standard for piping branches up to 28 inches is one size lower than half the size of the parent pipe. You can refer to an unequal tee dimensions chart to estimate these measurements.



How to select a steel pipe tee?

Steel gets preferred for pipe tees due to its corrosion resistance and durability. While selecting a stainless steel reducing tee, the first step is to choose the nominal diameter and schedule of the first and the second pipe ends. Then, you have to decide the type of tee required. The next step is to measure the distance from one pipe end to the other or the length of the fitting.

The tee you choose can adhere to whichever standard you need for dimensions and design, for instance, ASME, MSS, ANSI, etc. It will also depend on the pressure rating you need for the application.

The selection process should also incorporate the technique, for instance, socket welding, butt welding, electric resistance, etc. Tees can have different end designs like a plane, beveled, etc.

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Email :
support@pipingmaterial.ae

Call :
+971 553561751

Address :
Office no. 1309, 13th Floor,
Creative Tower, Fujairah, Post Box 4422,
UAE (United Arab Emirates)