

Y Tee Pipe Fitting Dimensions



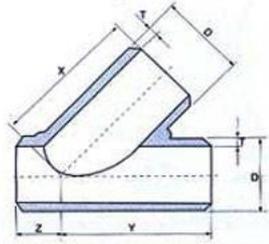
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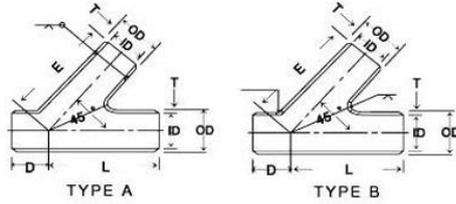
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أبعاد تركيب الأنابيب Y

Y tee pipe fitting dimensions

DN	Normal Pipe Size	X and Y	Z
25	1	146	45
32	1.1/4	159	45
40	1.1/2	178	51
50	2	203	64
65	2.1/2	241	64
80	3	254	76
90	3.1/2	292	76
100	4	305	76
125	5	343	89
150	6	368	89
200	8	445	114
250	10	521	127
300	12	622	140
350	14	686	152
400	16	762	165
450	18	813	178
500	20	889	203
600	24	1029	229
650	26	1308	267
700	28	1442	286
750	30	1524	299
800	32	1626	311
850	34	1727	330
900	36	1829	350



أبعاد الإنطلاق الجانبية 45 درجة

45 degree lateral tee dimension

NPS	TYPE	O.D.	STD				X - S			
			E & L	D	T	ID	E & L	D	T	ID
1	B	1.315	5.75	1.75	0.133	1.049	6.50	2.00	0.179	0.957
1¼	B	1.660	6.25	1.75	0.140	1.380	7.25	2.25	0.191	1.278
1½	B	1.900	7.00	2.00	0.145	1.610	8.50	2.50	0.200	1.500
2	A/B	2.375	8.00	2.50	0.154	2.067	*8.00	2.50	0.128	1.939
2½	B	2.875	9.50	2.50	0.203	2.469	**9.00	2.50	0.276	2.323
3	B	3.500	10.00	3.00	0.216	3.068	10.50 11.00	3.00	0.300	2.900
3½	B	4.000	11.50	3.00	0.226	3.548	12.50	3.00	0.318	3.364
4	A/B	4.500	12.00	3.00	0.237	4.026	*12.00	3.00	0.337	3.826
5	B	5.562	13.50	3.50	0.258	5.047	**13.50 15.00	3.50	0.375	4.813
6	A/B	6.625	14.50	3.50	0.280	6.065	*14.50	*3.50	0.432	5.761
8	B	8.625	17.50	4.50	0.322	7.981	**17.50	**4.00	0.500	7.625
10	B	10.750	20.50	5.00	0.365	10.020	20.50 24.00	5.00 5.50	0.500	9.750
12	B	12.750	24.50	5.50	0.375	12.000	27.50	6.00	0.500	11.750
14	B	14.000	27.00	6.00	0.375	13.250	31.00	6.50	0.500	13.000
16	B	16.000	30.00	6.50	0.375	15.250	34.50	7.50	0.500	15.000
18	B	18.000	32.00	7.00	0.375	17.250	37.50	8.00	0.500	17.000
20	B	20.000	35.00	8.00	0.375	19.250	40.50	8.50	0.500	19.000
24	B	24.000	40.50	9.00	0.375	23.250	47.50	10.00	0.500	23.000



أنواع تركيبات الأنابيب المحملة الجانبية

Types of lateral tee pipe fitting



Lateral Tee



Weld Y Tee



Y Type Tee



Y Tee Pipe Fitting



90 Degree Lateral Tee



45 Degree Lateral Tee



Reducing Lateral Tee



Lateral Wye Fitting



Lateral Tee Pipe Fitting

Material: ASTM A234, ASTM 403, ASTM B564
Standard: ASME B16.9, MSS-SP-75, DIN 2615
Size: DN80-DN1800
Wall Thickness: SCH5 to SCH160
Type: Welded
Connect Method: Butt welding
Production: Heat treated and machined





What is DN in y tee pipe fitting dimensions?

A wye pipe fitting is similar to a standard tee, but the branch line is angled. It is also called a y type pipe fitting. It uses angling to limit friction. The DN refers to the nominal pipe size, which lets you choose the correct component for the pressure and temperature rating. It is a crucial metric for selecting the weld y tee. Along with this, you also need the wall thickness that gets specified in the schedule.

A y tee can improve the flow of the piping. Another difference from a standard tee is that wyes usually branch out at 45 degrees and not 90.

Difference between type a and type b lateral tee dimensions

You can use lateral tee fittings when you need to branch out the flow at an angle usually other than 90 degrees. The dimensions of a lateral tee pipe fitting depend on the outer diameter of the pipe and the branching angle. These connections are of two main kinds: Type a and Type b. These two types refer to the cut used to manufacture the fitting.

Based on the type, the calculations of the branch will also differ. Measuring them is salient for selecting the suitable components for optimal system performance. You can find them in various materials based on industry design standards, like MSS-SP-43 Type A, MSS-SP-43 Type B, etc.

What is a lateral reducing tee?

Some applications may involve a unique angle other than 90 degrees between the piping. A reducing lateral tee is helpful in these circumstances. You will see it employed in diverse industries like marine, heavy equipment, chemical processing, automotive, and petroleum to connect pipes of different lengths. A lateral reducing tee is also beneficial in mechanical connections in pumps that need high integrity and high-purity systems.



Lateral-reducing tees often get compared to wyes. A good rule of thumb is to prefer lateral tees when the inflow pipe is directed horizontally to the ground. You will get better ground support with this type of fitting.

What is the y type pipe fitting branch formula?

In a y-type pipe fitting, the branch usually angles at 45 degrees. A y type tee can also be perpendicular to the main line. In that case, it gets referred to as a tee wye. You can calculate the 45 degree lateral tee dimensions based on the type of cut, i.e., A or B. A standard dimension chart will tell you the multiplier based on the angle of the branch and the type of cut.

Below is the piping lateral tee branch formula. In these equations, OD refers to the outer diameter, and F refers to the multiplier.

Type A Cut = OD of pipe × F

Type B Cut = OD of pipe × F

How to change the branch angle for lateral tee pipe fitting?

These tee fittings get employed when the branch angle is other than 90 degrees. Selecting suitable lateral tee dimensions is a decision you should make early in the installation process. You have to verify the flow direction while installing the lateral tee. For instance, you can use an angle of 45. These fittings get built from two pieces of pipes welded together. So, you will have to edit the product properties to change the curvature. It is possible to have the fitting implement a branch angle of 135 degrees.

The branch angle affects the flow as it impacts the inertial force acting on the fluid in the pipes. As the angle decreases, the push in the vertical direction also reduces.

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