

Barred Tee Dimensions



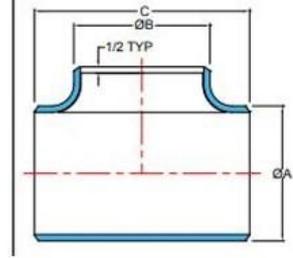
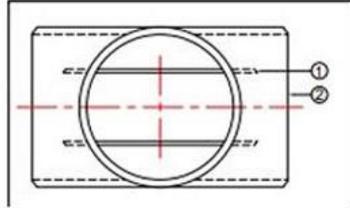
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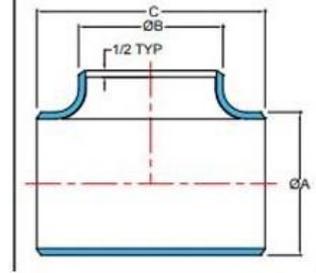
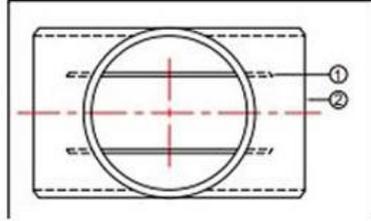


أبعاد الإنطلاق المحظورة

Barred tee dimensions



		Dimensions													(Inch)	
A															B Branch	Size
Run Size	Prefix	2	3	4	6	8	10	12	14	16	18	20	24	C		
2	0200	1/4														5
3	0300	1/4	1/4													6 3/4
4	0400	1/4	1/4	1/4												8 1/4
6	0600	1/4	1/4	1/4	1/4											11 1/4
8	0800	1/4	1/4	1/4	1/4	1/4										14
10	1000	1/4	1/4	1/4	1/4	1/4	1/4									17
12	1200	1/2	1/2	1/2	1/2	1/2	1/2	1/2								20
14	1400	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2							22
16	1600	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2						24
18	1800	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2					27
20	2000	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				30
24	2400	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2		34



تصغير مخطط حجم الإنطلاق المحذور

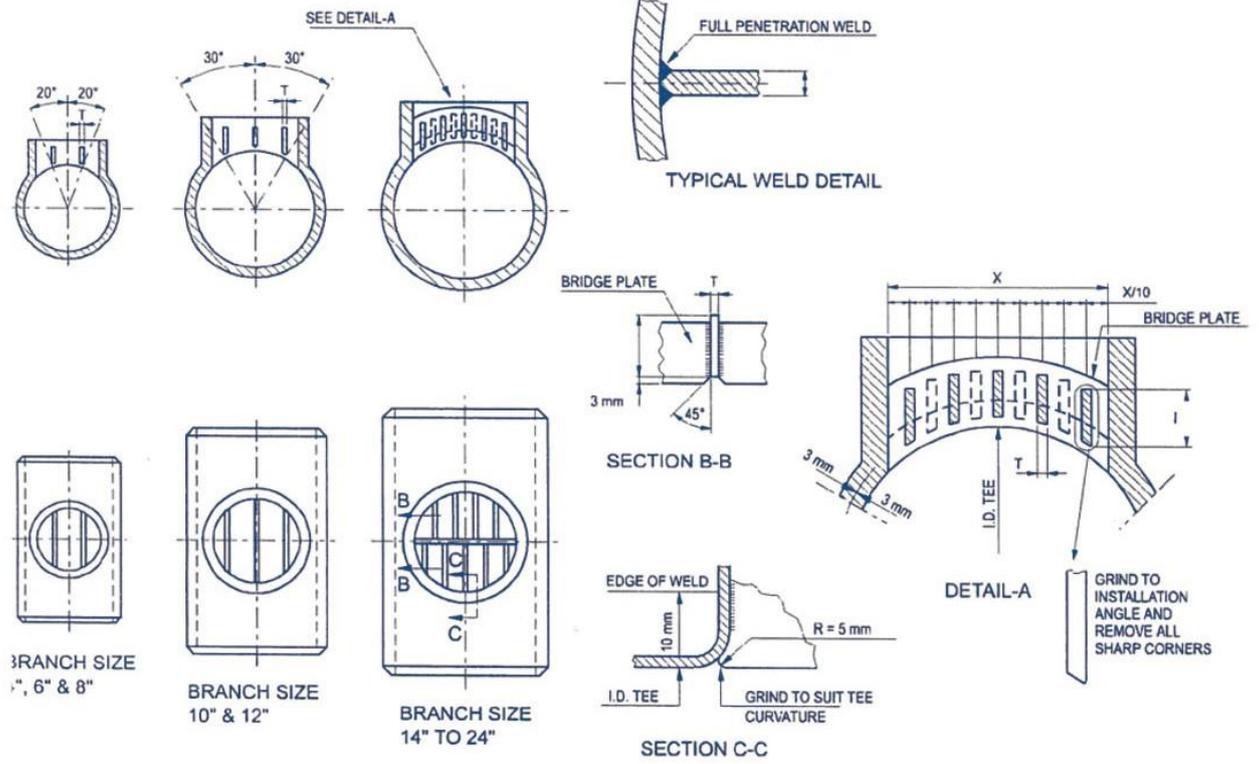
Reducing barred tee size chart

Reducing	Barred	Tee	
NPS	No. OF BARS	T mm	l mm
4"	2	6	25
6"	2	9	50
8"	2	9	50
10"	3	12	50
12"	3	12	50
14"	9	12	50
16"	9	12	75
18"	9	12	75
20"	9	12	75
22"	9	19	100
24"	9	19	100



Figure 4

Note: This drawing is not meant to be a complete procurement specification.





أنواع المحملة المحظورة

Types of barred tee



Barred Tee



Barred Tee Piping



Barred Tee Fitting



Barred Tee In Pipeline



Welded Barred Tee



Equal Barred Tee



Reducing Barred Tee



Barred Tee ASME B16.9



Barred Straight Tee



What is the difference between a normal tee and a barred tee?

Tees get extensively used to manage and control the flow in fluid-based applications. An equal barred tee incorporates restrictions via internally welded bars. These bars get built with the same material as the parent pipe. They align with the inside diameter of the tube to facilitate smooth movement.

The purpose of the bar plates is to keep the pig, i.e., inspection gauge for maintenance, from getting jammed at the outlet. The bars in a reducing barred tee must not inhibit the flow.

Contrastingly, you can use a regular tee to stem out the flow in a specified direction. The branch may be the same size as the pipe for an equal tee or smaller for a reduced version. It does not involve bar plates.

Design Considerations for barred tee ASME B16.9

These tees have strongly machined plates in line with the branch. Many manufacturers rely on a barred tee standard like ASME B16.9 for factory-made butt welding fittings like tees.

The quality of the bar plates must be dependable, and they should be spaced evenly for a smooth flow through the piping. A ballpark is to keep the opening in the branch under 40% of the main piping area. It is a good design practice to avoid welding directly on high-stress areas of the neck and abstain from welding repairs on the parent metal. Also, if your tee is over 14", you should consider a bridge plate in the middle to support the bars.

Another guideline is to be thorough with the pigging procedure, guaranteeing that the surface is smooth without sharp edges to protect the sensor of the pig.

What is OD in barred tee dimensions?

Barred tees do not generally have international standard dimensions. However, most manufacturers rely on standards, for example, barred tee asme b16.9 or MSS-SP 75. When you measure the dimensions, the OD refers to the outer diameter. Usually, smaller fittings in



the ¼” to ½” range use tubing sized by the OD. Manufacturers mark the barred tee dimensions standard, like the size of OD tubing on the side of the pipe.

If you deal with larger fittings, you will likely follow the nominal pipe size. This measurement depends on the inner diameter. OD and ID are critical metrics in selecting the right fittings for your specific requirement.

Is scrapper tee and welded barred tee are same?

You can use internal welding of plates to stop the pig from passing through. A welded barred tee has bars in the same material as the parent pipe.

On the other hand, scrapper tees comprise concentric barrels to obstruct the pig. They are also called sphere tees or flow tees. Usually, these fittings get employed in fluid-based systems.

A significant feature of these fittings is that the inside diameter equals the inner diameter of the riser in a splash area. It helps keep the pigging operation optimal. You can customize the thickness of the branch based on the pressure and temperature requirements. However, it must be compatible with the pipe so the pig can pass through. These fittings use slots to manage the pressure drops and don't have any bars.

What is the difference between a barred tee fitting and pigged tee?

Tees are popular fittings in many industrial sectors and divert the flow via a branch. A barred tee in pipeline and pigged tees refer to the same type of fitting. It employs bar plates to avoid blocking accidents in the piping. These tees ensure that the pig cannot run out in the branch of the main pipe, thus optimizing performance and reducing downtime.

A barred tee fitting resembles butt welding tees with bars in the branch. These pigged tees get used in pigged pipelines, i.e., piping with inspection gauges called pigs or scraper. Barred or pigged tee fittings get referred to as grille tee.

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