



Sizing Guide - Sanitary Flange

Sanitary flange fittings; commonly known as Tri-clamps, are used in many industries including single use pharmaceutical, biotech, beverage, dairy, food and other industries. These fittings are typically used where sanitary product flow and a high degree of purity with minimal risk of contamination is important.

Choosing the right size fitting can help minimize or eliminate contamination, bacterial growth, leaks.

Determining the correct size sanitary flange or tri-clamp for your tube.

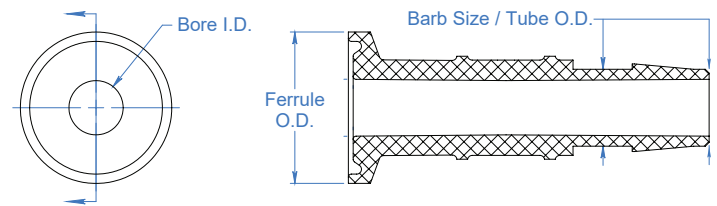
The size of the Tri-clamp or sanitary flange is determined by the outside diameter (OD) of the tube end (barb/barb neck), and NOT the outside diameter of the ferrule (flange) end.

This distinction is important because the Tri-clamp flange, which follows a standard, is approximately 1/2" larger than the tube end and is the most common point of confusion.

Thus a 1" fitting, will have a ferrule (flange) end that is 1.984" (almost 2"), and if we go by the flange measurement and order a 2" sanitary flange to match, the fitting will arrive about 1/2" too large.

Another significant point of confusion comes from the smaller OD tubing end. The 1/4", 3/8", 1/2" and 3/4" tube ends all share the 3/4" Tri-clamp ferrule (0.984" flange), and the same is true for the 1" and 1.5" tube end which share the 1.5" Tri-clamp ferrule (1.984" flange).

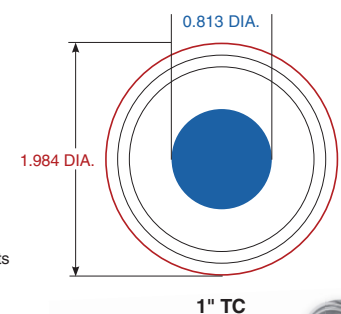
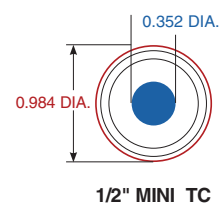
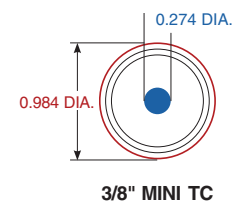
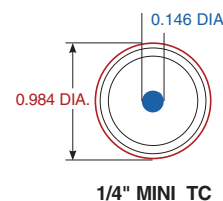
An alternative method to determine the correct Tri-clamp size is to measure the outside diameter of the ferrule (flange) end and the bore ID and reference the measurements in the chart.





ELDON JAMES SANITARY FLANGE SIZING GUIDE			
	BARB SIZE/TUBE OD	SANITARY SIZE	GASKET SIZE
1	(1/4") .250	Mini	1/4" Mini*
2	(3/8") .375	Mini	3/8" Mini*
3	(1/2") .500	Mini	1/2" Mini*
4	(1") 1.000	1 INCH	1"

	CLAMP SIZE	BORE I.D.	FERRULE O.D.
1	1/2" to 3/4"	.146	.984
2	1/2" to 3/4"	.274	.984
3	1/2" to 3/4"	.352	.984
4	1 or 1 1/2"	.813	1.984

* Eldon James Part# 42MP-RXC1/2 will accommodate the Mini 1/4", 3/8" and 1/2" barb sizes.



 OD Ferrule Measurements
 ID Bore Measurements

