

Sanitary Fitting Dimensions



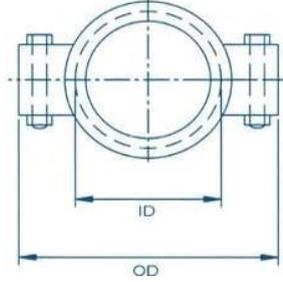
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Sanitary pipe fittings are available in 1" & 1 1/2" sizes

Sanitary fitting dimensions

Sanitary Size	Flange OD	ID of Tube	OD of Tube
1/2"	0.984	0.370	0.500
3/4"	0.984	0.620	0.750
1"	1.984	0.870	1.000
1 1/2"	1.984	1.370	1.500
2"	2.516	1.870	2.000
2 1/2"	3.047	2.370	2.500
3"	3.579	2.870	3.000
4"	4.682	3.834	4.000
6"	6.562	5.782	6.000
8"	8.602	7.782	8.000
10"	10.570	9.782	10.000
12"	12.570	11.760	12.000



What is the outside diameter in sanitary fitting dimensions?

These hygienic clamps are ubiquitous in pharmaceutical and biotechnology sectors to create secure connections that protect against bacterial growth. Sanitary tube fittings employ two ferrules that come together upon tightening the clamp. The outside diameter or OD refers to the dimensions of the tube. It is crucial to measure this metric accurately to find the right-sized fitting for your application.

It is a common mistake to confuse the OD with the outer diameter of the flange. The latter will not give you the correct dimension. The dimensions will also determine the design of the valves for flow control, tees, elbows, etc.

Check sanitary pipe clamps and y fitting dimensions as per DIN 3265-4 standards

How can you measure sanitary fitting sizes?

Two common approaches measure the correct size of these fittings. The first option to find sanitary fitting sizes is to measure the outside diameter or OD of the tube. To do this, trace a circle around the outside of the pipe and then measure its diameter. You will also have to get the inside diameter or ID. These dimensions will give you an accurate fitting size. You can look it up in the sanitary fittings size guide supplied by the manufacturer.

Another alternative is to find the OD of the flange end. You can trace the outside of the flange and then measure the diameter of the tracing. It is salient to note that while the flange measures the same as the OD, it does not give you the dimensions of the sanitary fitting.

Metric sanitary fittings size can be measured with two methods, like tube end OD and flange end outside diameter

How do you select the right sanitary clamp fittings?

The main criteria are the size, material, and type of connection. A standard choice for sanitary



clamp fittings is 304 or 316 stainless steel. The former is more affordable, but the latter is ideal for applications that involve harsh chemicals, high temperatures, abrasive cleaning, etc. Whichever material you select should match the hygienic standards of regulatory agencies like the FDA, 3-A SSI, and USDA.

Picking the right size is crucial for a tight and leak-proof connection. A clamp that is too big will not protect against bacteria. Likewise, choosing too small a fitting can damage the ferrules and affect system performance. Sizes range from 1/2" to 12". While selecting the appropriate size, measure the outside diameter of the piping and not the flange.

1/2" Sanitary tube fitting available \$65.75 price in UAE

Connection types of stainless steel sanitary pipe fittings

Stainless steel gets customarily used to manufacture sanitary fittings due to its mechanical strength and corrosion resistance. You can use different connection types based on the application. For example, you can tighten stainless steel sanitary pipe fittings with a single bolt and use two-pin hinges. Another option is to fasten with bolts on both sides. Some applications require a third bolt for smooth operation at high pressures.

Some applications use butt welding for permanence or clamp-style fittings for frequent maintenance. Bevel-set units, on the other hand, get fastened using gaskets. Sanitary fittings types are multiple: threaded, crimped, push-to-connect, barbed, and ball-and-sleeve connections.

Using two pins is safe as it provides clamping force and ensures long-term stability. These fittings use ferrules that connect to the inside diameter of the connection. The ferrules combine to create a leak-tight seal when you tighten the clamp. The connection type you select should support quick installation and disassembly.



2 1/2" Sanitary ware fittings can be sustained up to 400 PSI pressure

What makes sanitary weld fittings different from regular fittings?

Medical, chemical and food-based industries demand extreme cleanliness that regular fittings can't ascertain. Sanitary weld fittings usually employ stainless steel, as you can clean and disinfect it effectively. It does not have pores that can accumulate bacteria. The corrosion resistance is also critical to keep these components from contamination.

These fittings also have a different Roughness Average (Ra) than regular ones. They get polished extensively to remove any peaks or valleys that can harbor microbes. Common Ra metrics are 32Ra for tube fittings and 15-20Ra for Bio-Pharmaceutical sectors.

Sanitary clamps resembling a three-way T feature in installations that deal with chemicals, medicines, and food. Sanitary fittings are also strong and have more longevity than regular ones. They can handle impact better and provide a long service life and easy maintenance. Usually, these components can get assembled and disassembled fast to facilitate periodic cleaning.

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