



# JIS FLANGES

## Literature



### Introduction:



Figure 1 JIS 10K Flange

A flange is a general term used for items that connect pipes, valves, pumps and other equipment in order to form a piping system. One of the best parts of using a flange is that they give very easy access for cleaning, inspection or modification of the system. A JIS10K Flange is a slip-on flange. This is different from other types of flanges, such as a welding neck flange or a lap joint flange. The JIS10K Flange is a slip-on flange that follows the standard made by JIS, the Japanese Industrial Standard. Specifically, the JIS10K Flange that is used is made to the JIS B2220 standard. The word 10K comes from the fact that the JIS10K Flange has been made to fulfill the rigours of 10kg/cm<sup>2</sup> of pressure. This

is all in accordance with the JIS B2220 standard created by the Japanese Industrial Standard.

### Main features:

The JIS10K Flange on offer comes in multiple different sizes. This means that it is perfect for usage in many different situations, from small systems up to very large ones. The size range that is offered ranges from  $\frac{3}{8}$  inches all the way up to 8 inches. The material used in order to make these flanges are also top notch. The steel that was used in order to make these flanges were SS400 steel. These JIS10K Flanges are also offered in stainless steel, grade 316. The JIS10K Flanges were made up to code with the JIS B2220 design standards, and are able to work in pressures up to the standards set by JIS. These flanges are made in China.

### Application:

Flanges are mostly used for connecting pipes or to attach a pipe to another component. Blind flange is used in order to close the end of a pipe, so that the flow will stop at the point of blind flange installation. As installation only requires screwing two flanges together and the pipes that are connected using flanges can be disassembled easily as well. Most commonly found in plumbing or piping, flanges are used in things such as a sink in the house, in the piping system for showers and also for toilets as well. In the manufacturing industry, flanges are also commonly used in piping systems that have considerable amounts of pressure.



Figure 2 JIS 10K Flange

### **Installation of flanges:**

The general way to install flanges is to put a pipe through, and to close it with a pair of male and female flanges, with a gasket in the middle to prevent leakage and provide better sealing. This is called a flanged joint. There are a few disadvantages of using a flange however. One of them is that it needs to be in a straight line, as well as a flanged pipe system needs more space than the pipe radius to work, which can limit the places where it is effective. These disadvantages however, are heavily outweighed by the benefits. Flanges can be put into the system with advance welding with piping, which easily saves costs and time. Putting a flange joint pipe together also means that the system itself is more flexible, and can easily be reconfigured or moved without the need to unweld a few parts. Considering the amounts of pressure that the flanges must get through on a daily basis, the risk of leaking is apparent. This risk however is then minimized by the JIS10K Flange, as it has been made to follow the JIS B2220 regulations, and is able to easily withstand 10kg/cm<sup>2</sup> worth of pressure.

## **Chuan Kok Hardware & Machinery Pte Ltd**

Address : 1783 Geylang Bahru, #01-02, Singapore 339708  
Telephone Number : +65 6294 2566  
Email Address : [info@chuankok.com](mailto:info@chuankok.com)  
Website : [www.chuankok.com](http://www.chuankok.com)  
Business Registration Number : 198201577Z  
Country of Registration : Singapore

### **Conditions of Use of Catalogue:**

The information in the catalogue are not binding and in order to improve distribution, Chuan Kok Hardware & Machinery Pte Ltd reserves the right to make any change including size and pressure ratings considered necessary at any time and without prior notice. According to the copyright and the civil law, any reproduction (also partial) of figures and texts of this catalogue by means of electronic, mechanical, photocopies, microfilms, recordings or other is forbidden without Chuan Kok Hardware & Machinery Pte Ltd's authorization.  
Catalogue Version: 2021

