

## Blind flanges

Blind flanges have the face thickness of a flange, a matching face type, and similar bolting pattern.

Material: Carbon, Alloy and Stainless Steel

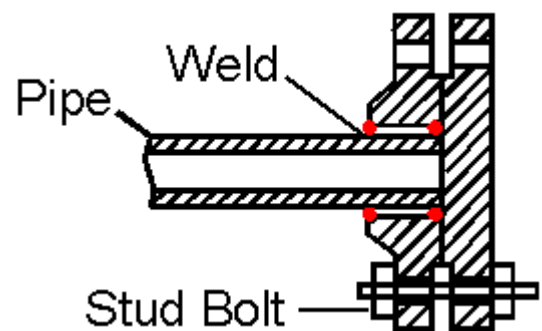
Standards: ASTM A105, ASTM A182

Sizes: 1/2" to 24", Customized up to 48"

Thickness: Schedule 10(S) to SCH 160

Pressure Ratings: Class 150 to 2500

Face Type: RF, RTJ.



Blind flange is like a flange cover, also called blind disk or flanged pipe plug.

Blind flange has no holes in the center, for to seal the pipe opening. So, it's

function is the same as the pipe plug or the pipe cap. The difference is blind flange is a detachable equipment, easy to replace or do maintenance.

### Major Function - Where to use

The blind flange is used to close ends of piping systems. It is a kind of round plate with no center hold but with all the proper bolt holes. This blind flange is available in various sizes and materials and is used to provide positive closer on the ends of pipes, valves or equipment nozzles. This flange helps in easy access to a line once it has been sealed. The blind flange is sometimes custom made or machined to accept a nominal sized pipe to which reduction is being made.

A blind flange is useful for making repairs to a pipeline further up the line. In fact, during construction of a pipeline, a blind flange may be built into the final length of pipe. This allows for expansion or continuation of the pipeline simply by adding onto the final flange.



**Flat Face (FF) Blind Flange**



**Raised Face (RF) Blind Flange**



## Manufacturing Types and Costs

Generally has four types: Forging, casting and forging, medium plate cutting, casting, the price of forging products is the highest, the middle plate is the second, casting and forging is the lowest and casting is the worst process when compared with others. The best quality is forging and medium plate, casting and forging is a bit worse.

### Casting Blind Flange

The shape of the casting flange blank is accurate, has the small processing capacity, the cost is low, but there are casting defects (air hole crack inclusions); And the streamline of the internal casting part is bad (if it is a cutting part, the streamline is worse).

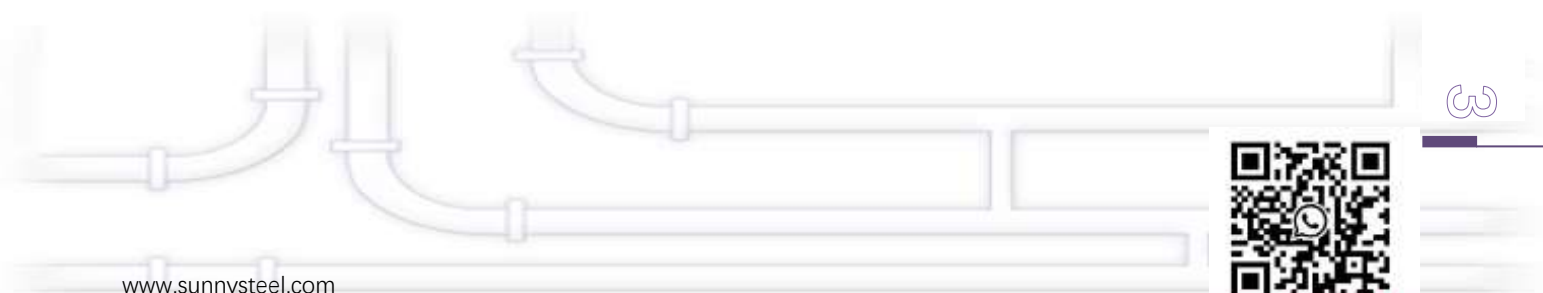
### Forging Blind Flange

Forged blind flange generally have lower carbon content than cast flanges and are not easily to rust. Forgings have better streamlined shape, denser structure and better mechanical properties than cast flanges;

If the forging process is improper, the grain will be large or uneven, and the hardening crack will occur. The forging cost is higher than the casting flange.

Forgings can withstand higher shear and tensile forces than castings.







# List of Core values

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