



Figure 1 SHAB and SSAB Square Flanges

Specification:

Square flange is used for the between pipe to pipe or pipe to components connections, like valves, tees, and elbows. Square flanges are made in accordance to JIS B2291 standard. It links the JIS standard nominal bore size pipes together. Square flanges are mostly used in hydraulic systems and steam lines.

Material:

The materials used to fabricate square flanges are steel (SF440A) and stainless steel (SS316).

Size Range & Pressure Rating:

The sizes of square flanges range from 1/4" to 6" in nominal bore sizes. Square flanges are able to withstand up to 210 Bar. This is equivalent to 210 Mpa, or 210 kg/cm².

Connections Type & Configurations:

The only available connection for square flanges is socket weld where the connection sides of pipes need to be plain ended. There are various types of configurations for square flange: SHAB, SSAB, LSA, and Blind Flange.

SHAB is a complete set of square flange that combines hexagon hex bolts, while SSAB is a complete set of square flange combined by a socket cap screw.

The flange body of SHAB are larger than SSAB. Complete set of square flange includes male flange (flat side), female flange (o ring side), o ring, and bolts. The female flange is identified as A and male flange is identified as B. Thus, the complete set is AB.

LSA is a special type o ring side square flange where the internal flow is in L shaped. Blind flanges are used to seal the flow at the end of a piping system. They are typically used to run a pressure testing of fluids through vessel or pipes. For the termination of hydraulic system, only one side of blind flange is used, either o ring side or flat side.



Figure 2 Oring and Flat Square Blind Flanges

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