

JIS

JAPANESE INDUSTRIAL STANDARD

**21 MPa slip-on welding pipe
flanges for hydraulic use**

JIS B 2291—1994

Translated and Published

by

Japanese Standards Association

Printed in Japan

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21 MPa slip-on welding pipe flanges
for hydraulic use

B 2291-1994

1. **Scope** This Japanese Industrial Standard specifies the slip-on welding pipe flanges to be used for pressures of 21 MPa or under (hereafter, referred to as "flanges"), among the hydraulic machines, pipings thereof and the like.

Remarks: The standards cited in this Standard are given in Attached Table 1.

2. **Types** The types of the flanges shall be classified according to the shapes of flanges, types of bolts used, and presence of O-ring groove, and be in accordance with Table 1.

Table 1. Types of flanges and classification

Division by shape	Type of bolt	Presence of O-ring groove	Symbol indicating type
That of straight flow passage	Hexagon head bolt	Yes	SHA
		No	SHB
	Hexagon socket head cap screw	Yes	SSA
		No	SSB
That of bent flow passage at right angles	Hexagon socket head cap screw	Yes	LSA

3. **Materials** The materials of the flanges shall be SS 400 of JIS G 3101, S 20 C, S 22 C and S 25 C of JIS G 4051 or those equal to or superior to these in qualities.

Remarks: When S 20 C, S 22 C and S 25 C of JIS G 4051 are used, an appropriate heat treatment shall be processed.

4. **Shapes and dimensions** The shapes, dimensions and surface roughnesses shall be in accordance with Attached Tables 2 to 5.

5. **Appearance** The surfaces of the flanges shall be free from such harmful defects in use as cracks, fissures, burrs, flaws and rust.

6. **Inspection** The inspection of the flanges shall be carried out on the materials, shapes, dimensions and appearance, and the results shall conform to the requirements of 3., 4. and 5. However, the inspection on the materials may be omitted as agreed upon between the parties concerned with delivery.