

KS

KOREAN INDUSTRIAL STANDARD

21 MPa slip-on welding pipe flanges for hydraulic

KS B 1521 : 2002

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the original standard in Korean is to be evidence.

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1. Scope

This Standard specifies slip-on welding pipe for flange(hereafter referred to as "Flange") using under the pressure with 21MPa for hydraulic and its piping system.

2. Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The up-to-date editions of the Standards described below shall be applied.

KS B 0201 Metric coarse screw threads.

KS B 0412 General tolerances-Part 1 : Tolerances for linear and angular dimensions without individual tolerance indications

KS B 1002 Hexagon head bolts and hexagon head screws

KS B 1003 Hexagon socket head cap screws

KS B 1012 Hexagon nuts and hexagon thin nuts

KS B 2805 O—rings

KS D 3503 Rolled steels for general structure

KS D 3752 Carbon steel for machine structural use

3. Classification The classification of Flange is classified according to the shape of the flange, type of bolts to be used and with or without bore of O-ring and it shall be in accordance with Table 1.

Table 1 Classification and category of flange

The straight to shape	Classification of bolts	The groove of O ring	Symbol indicating classification
The straight to flow path	Hexagon head bolt	Yes	SHA
		No	SHB
	Hexagon socket head cap bolt	Yes	SSA
		No	SSB
The bending vertical to flow path	Hexagon socket head cap bolt	Yes	LSA

4. Material The material for flange shall be SS 400 in KS D 3503, SM20C, SM22C, SM25C in KS D 3752 or the materials of the quality equivalent to or greater than its reference.

Remark When using the material such as SM20C, SM22C and SM25C in KS D 3752, the appropriate heat treatment shall be carried out.

5. Shape and dimension Shape and dimension and surface roughness of flange shall be in accordance with Attached table 1 to 4.

6. Appearance The surface of flange shall be free from defects such as blur, flaws, wrinkles in use.

7. Inspection The inspection of flange shall be carried out on material, shape, dimension and appearance, the result should conform to the requirement in 4., 5. and 6. clause.

8. Designation of the product The product shall be designated with the number of standard or title of standard, symbol to represent the classification and the nominal dimension.

Example 1 KS B 1521 SHA 40

Example 2 21 MPa slip-on welding pipe flanges for hydraulic SHA 40

9. Marking The following items shall be inscribed or some method as same as inscription to be replaced around outside surrounding surface of flange.

a) Manufacturer's name or register brand

b) Symbol to represent the classification and nominal dimension.

Example SHA 40