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JAPANESE INDUSTRIAL STANDARD

Gauge Glasses for Boilers

JIS B 8211-1975
(Reaffirmed: 1983)

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JAPANESE STANDARDS ASSOCIATION

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Gauge Glasses for Boilers

B 8211-1975
(Reaffirmed: 1983)

1. Scope

This Japanese Industrial Standard specifies the gauge glasses for boilers, hereinafter referred to as the "gauge glasses".

Remark: The units and numerical values given in { } in this standard are in accordance with the International System of Units (SI), and are appended for reference.

2. Classification

The classification of gauge glasses and the maximum using pressure shall be as given in Table 1.

Table 1

Classification		Symbol of classification	Maximum using pressure (1)
Round type		T	16 kgf/cm^2 {1.6 MPa} max.
Flat type reflex system		B	35 kgf/cm^2 {3.5 MPa} max.
Flat type through-vision system	P_A type	P_A	60 kgf/cm^2 {6.0 MPa} max.
	P_B type	P_B	120 kgf/cm^2 {12.0 MPa} max.
Circular type through-vision type		C	210 kgf/cm^2 {21.0 MPa} max.

Note (1) Indicated by the maximum using pressure of the boiler to which the gauge glass is mounted.

Remarks 1. In the case of round type and flat type reflex system, it may exceed the pressure more or less, depending on the agreement between the parties concerned.

2. To the gauge glasses of flat Type through-vision system and circular type through-vision system, mica shall, as a rule, be used together.

3. P_A type of Flat type through-vision system, where it satisfies the specification of Remark of 3.3 (2), may be used at 120 kgf/cm^2 {12.0 MPa} or less.

4. The usable temperature shall be subjected to the agreement between the parties concerned.

Applicable Standard:

JIS B 0621-Definitions and Designations of Geometrical Deviations

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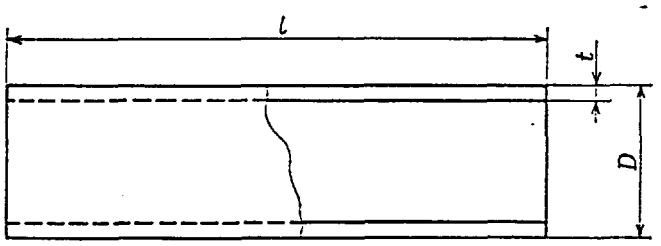
3. Shape and Dimensions

3.1 Round Type Gauge Glasses The round type gauge glasses shall be as follows:

(1) Shape and dimensions shall be as given in Fig. 1.

Fig. 1

Unit: mm



Outside diameter (D) (tolerances ±0.5)		16	19
Thickness (t)	Maximum	3.0	3.5
	Minimum	2.0	2.5
Length (l) (tolerances ±1)		160 250 300 350 — — —	160 250 300 350 400 450 500

Remark: Exclusively in the case of supplementary goods for repairing, length other than specified in this table may be used.

(2) The difference of outside diameters at both ends shall be 0.5 mm or less and the bend be 0.5 mm or less per 300 mm in length.

(3) The sectional surface shall be practically a true circle.

(4) Both ends shall be at right angles to the axis and the outside periphery shall be free from sharp corners.

3.2 Flat Type Reflex System Gauge Glasses The flat type reflex system gauge glasses shall be as follows:

(1) Shape and dimensions shall be as given in Fig. 2.

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