

JIS

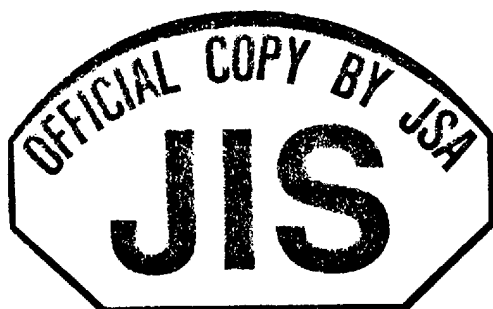
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JAPANESE INDUSTRIAL STANDARD

Oil Pressure Gauges for Automobiles

 **JIS** D 5603-1976
(Reaffirmed: 1983)



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JAPANESE INDUSTRIAL STANDARD

J I S

Oil Pressure Gauges for Automobiles

D 5603-1976

(Reaffirmed: 1983)

1. Scope

This Japanese Industrial Standard specifies the oil pressure gauges indicating the oil pressures in lubricating systems for automobile engines, hereinafter, referred to as the "oil pressure gauges".

Remarks 1. Refer to JIS D 0103.

2. 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. Types and Classification

The types and classification of the oil pressure gauges shall be 2 types of electric type and mechanical type according to working systems, and be classified into 5 classes according to their construction, as given in Table 1.

Table 1

Type	Classification	System of receiver unit and sender unit		
		Receiver unit	Sender unit	Accessory
Electric type	Class 1	Coil type	Variable resistance type	—
	Class 2	Bimetal type	Bimetal type	—
	Class 3	Bimetal type	Variable resistance type	Voltage regulator for meter
Mechanical type	Class 4	Bourdon tube type		—
	Class 5	Diaphragm type		—

3. Construction

3.1 Construction in General The construction of the oil pressure gauge shall be as given in the following:

- (1) The oil pressure gauge shall be composed of the sender unit which detects the oil pressure and the receiver which indicates that.

Applicable Standards: See page 7.

- (2) The electric oil pressure gauges shall be divided into the sender unit and receiver unit, and the voltage regulator for meter shall be included in the Class 3.
- (3) The mechanical type oil pressure gauge shall be integrally composed of the sender unit and receiver unit.

3.2 Unit and Scales The unit of the oil pressure gauge shall be weight kilogram per square centimeter (kgf/cm^2){Paskal (Pa)}, and scales shall be of 3 points of the minimum, medium and the maximum.

4. Shapes and Dimensions

The shapes and dimensions of the mounting parts and terminals and the like of oil pressure gauge shall be as given in Attached Figure.

5. Appearance

The appearance shall be as given in the following:

- (1) Portions of an electroplated oil pressure gauge being exposed to outside shall be free from uneven-plating, remarkable flaw, and other harmful defects.
- (2) Those which have been processed with painting shall be free from remarkable spitting, unevenness, flaw and harmful defects on the surface.
- (3) For those which have been processed with dazzle preventing treatments on plated and painted surfaces, the glossiness of their surface, when tested in accordance with the optical conditions of the method 2. specified in JIS Z 8741, shall be not more than 40 % in reflectance.

6. Painting and Plating

6.1 Painting Those which have been processed with painting on the surface rims and casing, when tested in accordance with the test conditions of Table 2, peeling of coated film, softening, floating and discolouration shall not be caused. However, to the resin basis material, these requirements do not apply.