



JAPANESE
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STANDARD

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JIS K 7030 : 1997
(ISO 8572 : 1991)

**Pipes and fittings made of
glass fiber reinforced thermosetting
plastics (GRP)—
Definitions of terms relating
pressure, including relationships
between them, and terms
for installation and jointing**

ICS 01.040.83; 23.040.20; 23.040.40

Descriptors : plastics, reinforcing materials, glass fibres, textile glass, pipe connections,
pipes, vocabulary

Reference number : JIS K 7030 : 1997 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Pipes and fittings made of glass fiber reinforced thermosetting plastics (GRP)— Definitions of terms relating pressure, including relationships between them, and terms for installation and jointing

Introduction This Japanese Industrial Standard has been prepared based on the first edition of ISO 8572 *Pipes and fittings made of glass fiber reinforced thermosetting plastics (GRP)—Definitions of terms relating pressure, including relationships between them, and terms for installation and jointing*, published in 1991 without changing the technical contents.

1 Scope This Standard gives definitions of nominal pressure (PN), maximum allowable pressure and maximum service pressure when applied to components of a glass-reinforced thermosetting plastics (GRP) pipe and fitting system, and states the range of PN ratings for use with these same components.

It also defines terms relating to the installation and jointing of GRP and fittings.

2 Normative reference The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

ISO 3 : 1973 *Preferred numbers—Series of preferred numbers*

3 Definitions

3.1 PN (nominal pressure): An alphanumeric designation loosely related to the resistance of a component of a piping system to internal pressure.

- NOTES
- 1 The designation, which is a nominal one for reference or marking purposes, consists of the letters PN plus a number selected from a series of preferred numbers (see annex A).
 - 2 The number used for a particular component will be specified by the relevant component or piping system specification, e.g. PN 16.
 - 3 It should not be assumed that the number represents a measurable value or that it is suitable for use in calculations unless otherwise specified in the relevant component or piping system standard.
 - 4 The value assigned to PN does not necessarily equate to any limiting pressure applicable to the component as manufactured or in service (see 3.2 and 3.3).

3.2 maximum allowable pressure: For GRP pipes or fittings, the calculated maximum internal water pressure in SI units which the pipe or fitting, as manufactured, will withstand, without failure, for 50 years at 23 °C. This pressure is determined