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STANDARD

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(ISO/FDIS 8483 : 1997)

**Plastics piping systems—
Glass-reinforced thermosetting
plastics (GRP) pipes and fittings—
Test method to prove the design
of bolted flange joints**

ICS 23.040.20; 23.040.45

Descriptors : plastic pipelines, plastics, reinforcing materials, glass fibres, pipes, pipe fittings, bolting, pipe junctions, testing

Reference number : JIS K 7036 : 1998 (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 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,
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Plastics piping systems — Glass – reinforced thermosetting plastics (GRP) pipes and fittings — Test method to prove the design of bolted flange joints

Introduction This Japanese Industrial Standard has been prepared based on "ISO/FDIS 8483, Glass-reinforced thermosetting plastics (GRP) pipes and fittings-Test method to prove the design of bolted flange joints" issued in 1997 without changing the technical content.

1 Scope

This Standard specifies methods of test for joints with bolted flanges for plastics piping systems of glass-reinforced thermosetting plastics (GRP) for buried and above ground pipelines. This Standard is applicable to the joint and covers methods of test to prove its design. It assumes that the joint either is or is not intended to be subject to the effects of hydrostatic end thrust.

This test procedure is applicable to joints for pipes and fittings of all nominal sizes. Tests given in this Standard are applicable for evaluating joints intended for applications conveying liquids at temperatures specified in the referring specification (see clause 3).

2 Principle

A joint is subjected to a specified internal pressure and, if applicable, longitudinal loading. The procedure includes prolonged static tests at elevated pressures and cyclic testing.

A method is also included to test the resistance of the joint to an internal negative pressure. This also simulates an external positive pressure.

NOTE: The only intention of testing the resistance to negative pressure is to give adequate safety against infiltration through the joint into the fluid carried in the piping system.

At the end of the tests the joint is inspected for signs of leakage and damage.

If the joint is to be used in systems where the maximum operating temperature is higher than the value given in the referring specification the test conditions can be modified accordingly.