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(JGA/JPIF/JSA)

**Polyethylene pipe-fittings for the supply
of gaseous fuels — Part 3: Electrofusion
fittings**

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In the event of any doubts arising as to the contents,
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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Gas Association (JGA)/The Japan Plastics Industry Federation (JPIF)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied *mutatis mutandis* pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 6775-3** : 2013), which has been technically revised.

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JIS K 6775 series consists of the following 3 parts under the general title *Polyethylene pipe-fittings for the supply of gaseous fuels* :

Part 1 : Heatfusion fittings

Part 2 : Spigot fittings

Part 3 : Electrofusion fittings

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Polyethylene pipe-fittings for the supply of gaseous fuels — Part 3 : Electrofusion fittings

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 4437-1** : 2014, Edition 1, and **ISO 4437-3** : 2014, Edition 1, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standards. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies the requirements for polyethylene electrofusion fittings (hereafter referred to as fittings) intended to be used with polyethylene pipes for the supply of town gas and liquefied petroleum gas.

This Standard is applicable for fittings of the following types :

- electrofusion socket fittings;
- electrofusion saddle fittings.

The fittings can for example be in the form of saddles, equal and reduced tees, reduced sockets, elbows, bends, or caps.

The maximum operating pressure (MOP) of the polyethylene pipes and pipe-fittings for the supply of gaseous fuels conforming to **JIS K 6774**, **JIS K 6775-1** and **JIS K 6775-2** and their joints, and joints with components of polyethylene or other materials is based on the design stress determined from the compound minimum required strength (MRS) divided by *C* factor [overall service (design) coefficient], and taking into account rapid crack propagation (RCP) requirements.

NOTE The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 4437-1 : 2014 *Plastics piping systems for the supply of gaseous fuels — Polyethylene(PE) — Part 1 : General*

ISO 4437-3 : 2014 *Plastics piping systems for the supply of gaseous fuels — Polyethylene(PE) — Part 3 : Fittings* (Overall evaluation : MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.