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(JGA/JPIF/JSA)

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

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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 fitting*

# 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.