

MAURITIAN
STANDARD

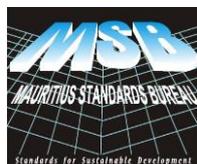
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Plastics piping systems –
Mechanical fittings for piping
systems – Specifications

ICS 23.040.45; 75.200



Mauritius Standards Bureau
Moka

National foreword

This Mauritian Standard is identical with the International Standard **ISO 17885:2015 + Amd1:2016**, *Plastics piping systems – Mechanical fittings for piping systems - Specifications*. It was adopted by the Mauritius Standards Bureau on the recommendation of the **Building and Construction Standards Committee** and approval of the **Standards Council** on 30 March 2017. It was notified in the Government Gazette on **06 May 2017***

This edition cancels and replaces MS ISO 14236:

For the purpose of this standard the following changes should be made:

- (i) the words 'International Standard' should be replaced by 'Mauritian Standard';
- (ii) the 'decimal comma' should be replaced by 'decimal point'.

***General Notice No. 646 of 2017.**



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PREVIEW

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 4, *Plastics pipes and fittings for the supply of gaseous fuels* in close collaboration with Subcommittee SC 2, *Plastics pipes and fittings for water supplies* and Subcommittee SC 3, *Plastics pipes and fittings for industrial applications*.

This first edition cancels and replaces ISO 10838-1:2000, ISO 10838-2:2000, ISO 10838-3:2001, and ISO 14236:2000, which have been technically revised.

Introduction

This International Standard specifies the requirements for mechanical fittings for joining plastic piping systems for the supply of gaseous fuels, the supply of water for human consumption and other purposes, as well as for industrial application.

It provides a unified set of test methods to check the performance of the fittings, depending on their intended use.

It is the responsibility of the purchaser or specifier to select the appropriate fitting, taking into account their particular requirements and any relevant national guidance or regulations and installation practices or codes.

Products must comply, when existing, with national regulations and testing arrangements that ensure fitness for purpose.

PREVIEW

Plastics piping systems — Mechanical fittings for pressure piping systems — Specifications

1 Scope

This International Standard specifies the requirements and test methods for mechanical fittings intended to join plastic pressure piping systems including transition fittings to metal pipes for the following:

- supply of gaseous fuels (GAS);
- supply of water for human consumption (W), including raw water prior to treatment and for the supply of water for general purpose, as well as underground drainage and sewerage under pressure (P);
- supply of water for irrigation (I);
- industrial applications (IS).

This International Standard is applicable only to mechanical fittings with operating-temperature and pressure limits as indicated in the relevant systems standards.

NOTE A list of International Standard for plastic pipes for which mechanical fittings can be used can be found in [Annex A](#).

Flanges are not covered by this International Standard.

Mechanical fittings for hot and cold water systems inside buildings, as well as for district heating applications, are not covered by this International Standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7-1, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation*

ISO 75-2, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite*

ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation*

ISO 306, *Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST)*

ISO 307, *Plastics — Polyamides — Determination of viscosity number*

ISO 472, *Plastics — Vocabulary*

ISO 580:2005, *Plastics piping and ducting systems — Injection-moulded thermoplastics fittings — Methods for visually assessing the effects of heating*

ISO 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics*

ISO 1133-1, *Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method*