

INTERNATIONAL STANDARD

**ISO
7483**

First edition
1991-10-01

Dimensions of gaskets for use with flanges to ISO 7005

Dimensions des joints à utiliser avec les brides de l'ISO 7005



Reference number
ISO 7483:1991(E)

Contents

Page

Section 1 General	1
1.1 Scope	1
1.2 Normative references	1
1.3 Definitions	1
1.4 Gasket forms	1
Section 2 Non-metallic flat gaskets	3
2.1 Gasket designs	3
2.2 Gasket types	3
2.3 Range of gasket sizes	4
2.4 Dimensions	4
Section 3 Spiral wound gaskets	15
3.1 Gasket designs	15
3.2 Gasket designs according to flange facing	16
3.3 Marking	16
3.4 Dimensions	16
Section 4 Metallic ring-joint gaskets	22
4.1 Gasket designs	22
4.2 Dimensions and tolerances	22
4.3 Surface texture	22
4.4 Identification number	22
4.5 Marking	22
4.6 Typical materials for metallic ring-joint gaskets	27
Section 5 Non-metallic envelope gaskets	28
5.1 Gasket designs	28
5.2 Gasket applications	28

© ISO 1991

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

5.3	Dimensions	28
Section 6	Corrugated, flat or grooved metallic and filled metallic gaskets	30
6.1	Gasket designs	30
6.2	Gasket types	30
6.3	Dimensions	30
Annexes		
A	Flange facing types	32
B	Information to be supplied by the purchaser	33
B.1	General	33
B.2	For non-metallic flat gaskets	33
B.3	For spiral wound gaskets	33
B.4	For metallic ring-joint gaskets	33
B.5	For non-metallic envelope gaskets	33
B.6	For corrugated, flat or grooved metallic and filled metallic gaskets	33

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7483 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Sub-Committee SC 10, *Metallic flanges and their joints*.

Annexes A and B of this International Standard are for information only.

Introduction

This International Standard has been prepared in order to specify dimensions of gaskets for use with flanges to the following standards:

ISO 7005-1, *Metallic flanges — Part 1: Steel flanges*

ISO 7005-2, *Metallic flanges — Part 2: Cast iron flanges*

ISO 7005-3, *Metallic flanges — Part 3: Copper alloy and composite flanges*

It is divided into sections, according to the form of gasket, as follows:

Section 1: General

Section 2: Non-metallic flat gaskets

Section 3: Spiral wound gaskets

Section 4: Metallic ring-joint gaskets

Section 5: Non-metallic envelope gaskets

Section 6: Corrugated, flat or grooved metallic and filled metallic gaskets

The materials for gaskets are outside the scope of this International Standard but section 1 lists the various forms of gaskets and the ranges of materials used for some gasket forms, and section 4 gives hardness values of typical ring-joint gasket materials.

The selection of the gasket type, its material and thickness (as applicable) should take account of the operating conditions, the properties of the gasket material, the type of flange facing, the surface finish of the flange and the flange bolt loading. Therefore, it is recommended that the selection of gaskets for any particular application is made in consultation with the gasket supplier.

Annex A lists for information the type of flange faces for which gaskets are specified in this International Standard and annex B gives information to be supplied by the purchaser when ordering gaskets.