



**International  
Standard**

**ISO 3669**

**Vacuum technology — Dimensions  
of knife-edge flanges**

*Technique du vide — Dimensions des brides à guillotine*

**Fourth edition  
2026-06**

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## 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 document 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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 112, *Vacuum technology*.

This fourth edition cancels and replaces the third edition (ISO 3669:2020), which has been technically revised.

The main changes are as follows:

- title has been updated;
- Flange type 295CF has been added as it is commonly used for turbo molecular pumps;
- Flange type 350ACF has been added which is compatible with ASTM E2734 flange type 350CF;
- knife edge angle range has been expanded to 0°-40°.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

This edition of ISO 3669 has been revised with the intention of harmonizing its content with ASTM E2734M in order to ensure compatibility of flanges and gaskets as defined in the two standards. This document is designed to set the minimum requirements to ensure flange compatibility. Manufacturers' designs may vary within the tolerances of this standard to meet specific sealing requirements.

ASTM E2734M was developed from the original ConFlat®<sup>1)</sup> flange dimensions and tolerances, as developed by Varian. The intent of this document is to ensure interchangeability of flanges. It is reasonable to accept that flanges manufactured to the original Varian specifications are compatible with flanges manufactured according to this document, even though they might not fall within all tolerances.

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