



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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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°.

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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®¹⁾ 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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