
**Vacuum technology — Dimensions of
clamped-type quick-release couplings**

Technique du vide — Dimensions des raccords rapides



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The committee responsible for this document is ISO/TC 112, *Vacuum technology*.

This first edition of ISO 2861 cancels and replaces 2861-1:1974, of which it constitutes a technical revision. The most important change is the addition of the dimension for 50 mm nominal bore quick-release couplings and their constituent parts to the dimensions of the four nominal bore sizes, 10 mm, 16 mm, 25 mm and 40 mm, already specified in the replaced standard (ISO 2861-2:1980, *Vacuum technology — Quick release couplings — Dimensions — Part 2: Screwed type*, was withdrawn in 2010).

Vacuum technology — Dimensions of clamped-type quick-release couplings

1 Scope

This International Standard specifies the dimensions of the clamped-type quick-release couplings used in vacuum technology, as well as those of the O-rings and their carriers associated with these couplings, used to ensure vacuum tightness.

NOTE The dimensions retained for the coupling diameter ensure the compatibility of the quick-release coupling with the corresponding vacuum flanges specified in ISO 1609.^[1]

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

clamped-type quick-release coupling

connection which may be joined or separated without the use of tools

[SOURCE: ISO 14617-3:2002, 3.15, modified — “clamped-type” has been added to the term; Notes 1 to 3 are additional to the original definition.]

Note 1 to entry: Ensures vacuum tightness associated with the O-rings and their carriers.

Note 2 to entry: The types and dimensions of clamps to tight couplings are not specified in this International Standard.

Note 3 to entry: See [Figure 1](#).