## International Standard



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# Vacuum technology — Quick release couplings — Dimensions — Part 2 : Screwed type

Technique du vide — Raccords rapides — Dimensions — Partie 2 : Raccords de type fileté

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## **Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2861/2 was developed by Technical Committee ISO/TC 112, Vacuum technology, and was circulated to the member bodies in December 1978.

It has been approved by the member bodies of the following countries: ...https://standards.itch.avcattabg/standards/sist/6cb63060-a6a5-46cb-8134-

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The member bodies of the following countries expressed disapproval of the document on technical grounds:

> Australia Poland USA

## Vacuum technology — Quick release couplings — Dimensions -Part 2: Screwed type

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## 1 Scope and field of application

couplings of the screwed type as used in vacuum technology. - 286 All associated dimensions are given in table 1. as well as those of the "O" rings and the insert which are associated with these tailpieces to ensure coupling tightness.

General information is also included which refers to the clamped quick-release coupling standardized internationally in ISO 2861/1, with which the screwed quick-release coupling specified in this part is compatible.

#### 2 Designation

Each guick-release coupling of the screwed type shall be designated by its nominal bore and a reference to this part.

## 3 Screwed coupling tailpiece

This part of ISO 2861 specifies the dimensions of quickereleaserds/sistfligure (Gillustrates the form of the screwed coupling tailpiece.

#### Screwed coupling insert

Figure 2 shows the screwed coupling insert. The associated dimensions are given in table 2.

#### "O" ring seal 5

The "O" rings are illustrated in figure 3 and associated dimensions are given in table 3. The nominal hardness recommended for the "O" ring is 65° Shore

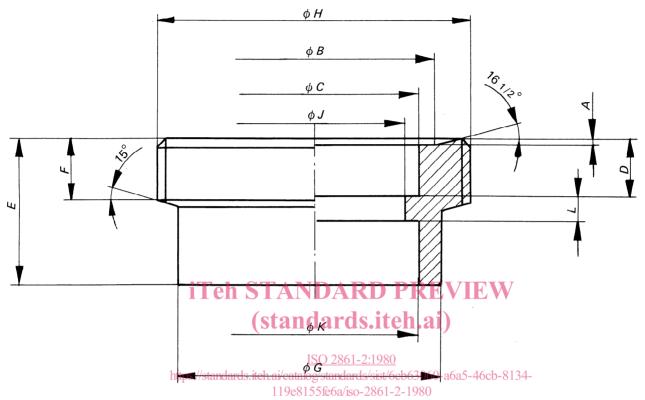


Figure 1 — Tailpiece

NOTE - A surface finish of at least 1,6  $\mu m$  for the sealing surface has proved satisfactory in practice.

Table 1 — Dimensions of tailpiece

Values in millimetres

Nominal bore	<i>A</i> h11	В ј <sub>s</sub> 13	<i>C</i> B11	D	<i>E</i> min.	F	<i>G</i> max.	н	J	<i>K</i> B11	L	Tube outside diameter <sup>1)</sup>
10	0,9	17,5	15,0	6	16	7,5	18	G1B	13	14,0	4	14,0
16	0,9	22,5	20,0	6	16	7,5	23	G1B	18	20,0	4	20,0
25	1,15	31,0	28,0	6	19	7,5	32	G11/4B	26	28,0	7	28,0
40	1,15	46,0	42,5	6	22	7,5	46	G2B	40	42,5	10	42,4

<sup>1)</sup> These values are given for guidance only.

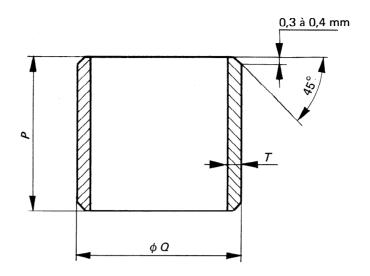


Figure 2 - Insert

Table 2 — Dimensions of insert

Values in millimetres *T* min. Nominal j<sub>s</sub>6 bore 10/ 11,0 14,9 0,5 16 11,0 19,9 0,75 0,75 25 ISH 2861 27,9 https://s andard**4o**teh.ai atalog/standard sist/6db69060 6a5-46**ob**-813

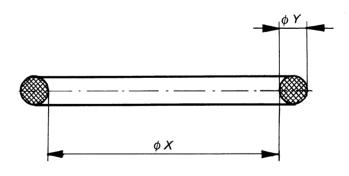


Figure 3 - "O" ring

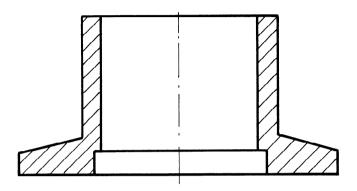
Table 3 — Dimensions of "O" ring

		Values in millimetres
Nominal bore	X	Ÿ
10	14,6	2,4
16	19,6	2,4
25	27,5	3,0
40	41,5	3,0

### Annex A

## Clamped quick-release couplings

The figures illustrate the general form. Dimensions are given in ISO 2861/1.



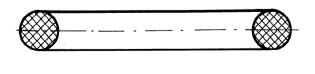
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4b) - "O" ring carrier



4c) — "O" ring

Figure 4 - Clamped quick-release coupling components

## Annex B

## Assembly of clamped and screwed quick-release couplings

## **B.1 Screwed quick-release coupling**

The method of assembling the mating parts of the quick-release coupling is shown in figure 5.

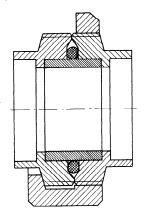


Figure 5 - Assembly of screwed quick-release coupling

## B.2 Clamped quick-release coupling ndards.iteh.ai)

The method of assembling the mating parts of the quick release coupling is shown in figure 6.

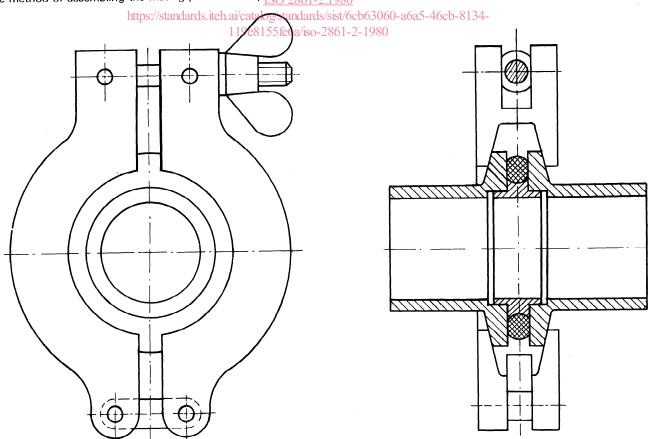


Figure 6 — Assembly of clamped quick-release coupling

### B.3 Screwed-to-clamped quick-release couplings

The screwed quick-release coupling tailpiece may be directly connected to the clamped quick-release coupling tailpiece as shown in figure 7.

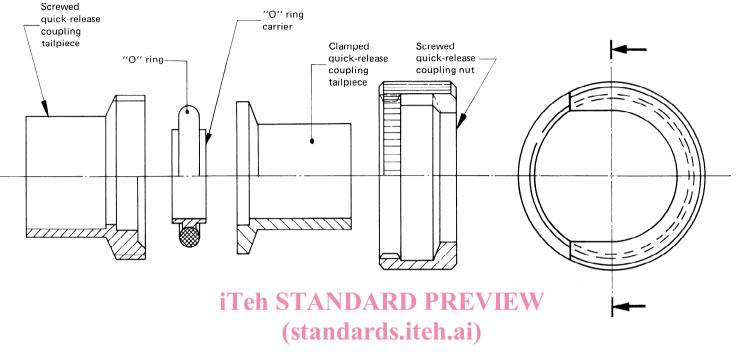


Figure 7 — Assembly of screwed-to-clamped quick-release coupling  $\underline{\rm ISO~2861\text{--}2:1980}$ 

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