## INTERNATIONAL STANDARD



First edition 1993-02-01

## Vacuum technology — Pipeline fittings — Mounting dimensions

# iTeh Stechnique du vide — Connexions à vide pour les pipelines — Dimensions de montage (standards.iteh.ai)

ISO 9803:1993 https://standards.iteh.ai/catalog/standards/sist/0b0509c6-2406-462e-b126cff5322acb56/iso-9803-1993



Reference number ISO 9803:1993(E)

#### 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 9803 was prepared by Technical Committee ISO/TC 112, Vacuum technology, Sub-Committee SC 1, Vacuum flanges and fittings. ISO 9803:1993

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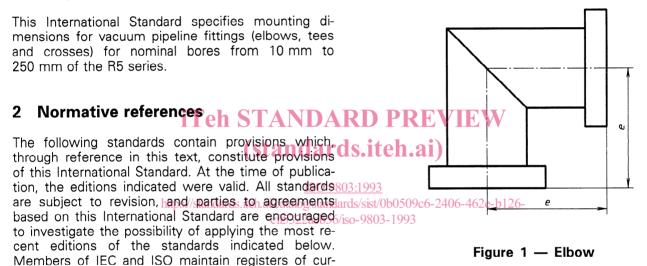
International Organization for Standardization

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# Vacuum technology — Pipeline fittings — Mounting dimensions

#### 1 Scope



ISO 1609:1986, Vacuum technology — Flange dimensions.

rently valid International Standards.

ISO 2861-1:1974, Vacuum technology — Quickrelease couplings — Dimensions — Part 1: Clamped type.

#### 3 Dimensions

**3.1** Mounting dimensions of the vacuum pipeline fittings shall be as specified in table 1. See figures 1 to 3.

**3.2** The flange dimensions shall be as specified in ISO 1609 and ISO 2861-1.

**3.3** The positions of the bolt holes in the flanges specified in ISO 1609 shall be as shown in figure 4. Angle  $\alpha$  is a function of the number of bolt holes.

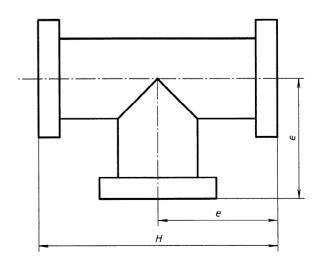
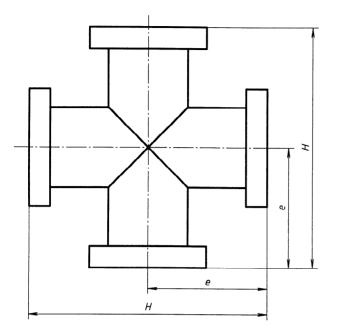
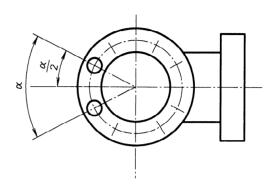


Figure 2 — Tee







### Figure 3 – Crosseh STANDARD PREVIEW

		Table 1	- Dimens	lions of pipeline	es ant jings	Dimensions in millimetres
Nominal bore			<u>ISO 9803:1993</u> teh.ai/catalog/st <b>a</b> /dards/sist/0b05 cff5322acb56/iso-9803-199		Perpendicularity tolerance for the two mating faces for the two flanges specified 3 in	
		tol.		tol.	ISO 2661-1	ISO 1609
10	30 40*)	± 1,5	60 80*)	± 1,5	± 2°	
16	40		80			± 1°
25	50		100			
40	65		130	± 2		
63	88		176			
100	108		216			± 0° 30′

± 3

276

416

± 2

\*) These values shall be used only for flanges specified in ISO 1609.

### Table 1 (Spinensions of pipelines fittings

160

250

138

208

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