
**Aircraft ducting and piping — Profile
dimensions for flanges of V-band
couplings**

*Canalisations et tuyauteries à bord des aéronefs — Dimensions
d'encombrement des brides à section en V pour raccords*



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Foreword

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ISO 2563 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

This second edition cancels and replaces the first edition (ISO 2563:1974), which has been technically revised.

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Aircraft ducting and piping — Profile dimensions for flanges of V-band couplings

1 Scope

This International Standard gives the profile dimensions of V-band couplings, and the associated inch-based aircraft ducting and piping for the following external flange profiles:

- lightweight solid profile;
- medium-weight solid profile;
- heavyweight solid profile;
- narrow sheet metal profile;
- wide sheet metal profile;
- wide solid profile;
- wide sheet metal to solid profile.

2 Dimensions

2.1 The profile dimensions of a mating pair of flanges of V-band couplings shall comply with Figures 1 to 7, in accordance with the type of coupling required for the application. The dimensions are given in millimetres, with inch equivalents in parentheses.

2.2 The design of joints is at the discretion of the user, but the joint design shall remain within the range of the profiles given in this International Standard.

2.3 Flange halves are illustrated as being identical in the figures, but at the discretion of the user, the flange faces can be asymmetric, allowing the creation of locating spigots and recesses or other locating features, within the boundaries of the overall definition. The narrow and wide sheet metal flanges are identical. The single wide sheet metal profile flange shown in Figure 7 should be mated with a single solid profile flange shown in Figure 6.

2.4 The single flange end shown in Figure 7 may be machined on a pump or valve, which mates with ducting.