AEROSPACE STANDARD

AS4262™	REV. B

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Reaffirmed 2022-09

Superseding AS4262A

Aircraft Ground Air Conditioning Service Connection

RATIONALE

AS4262B has been reaffirmed to comply with the SAE Five-Year Review policy.

1. SCOPE

This SAE Aerospace Standard (AS) defines interface configurations for the ground air conditioning service connection on commercial transport aircraft. In addition, it defines the clearances required to accommodate the connection of ground air conditioning hose couplings. Two types of service connections are included. The Type A connection (Figure 1) is a slotted ring with integral locking pads and is comparable to the MS33562 connection. The Type B connection (Figure 2) is a flanged tube with external locking lugs (Figure 3). The Type B connection has the same interface dimensional requirements as the Type A connection.

1.1 Purpose

The purpose of this document is to establish uniform interface configurations on commercial transport aircraft for the ground air conditioning (conditioned air) service connection. Consideration is also given to the durability, maintainability, and repairability of the connection.

2. REFERENCES

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

ARP4084 Aircraft Ground Service Connections Locations and Type

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)**
Tel: +1 724-776-4970 (outside USA)
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SAE WEB ADDRESS: **http://www.sae.org**

For more information on this standard, visit
https://www.sae.org/standards/content/AS4262B/

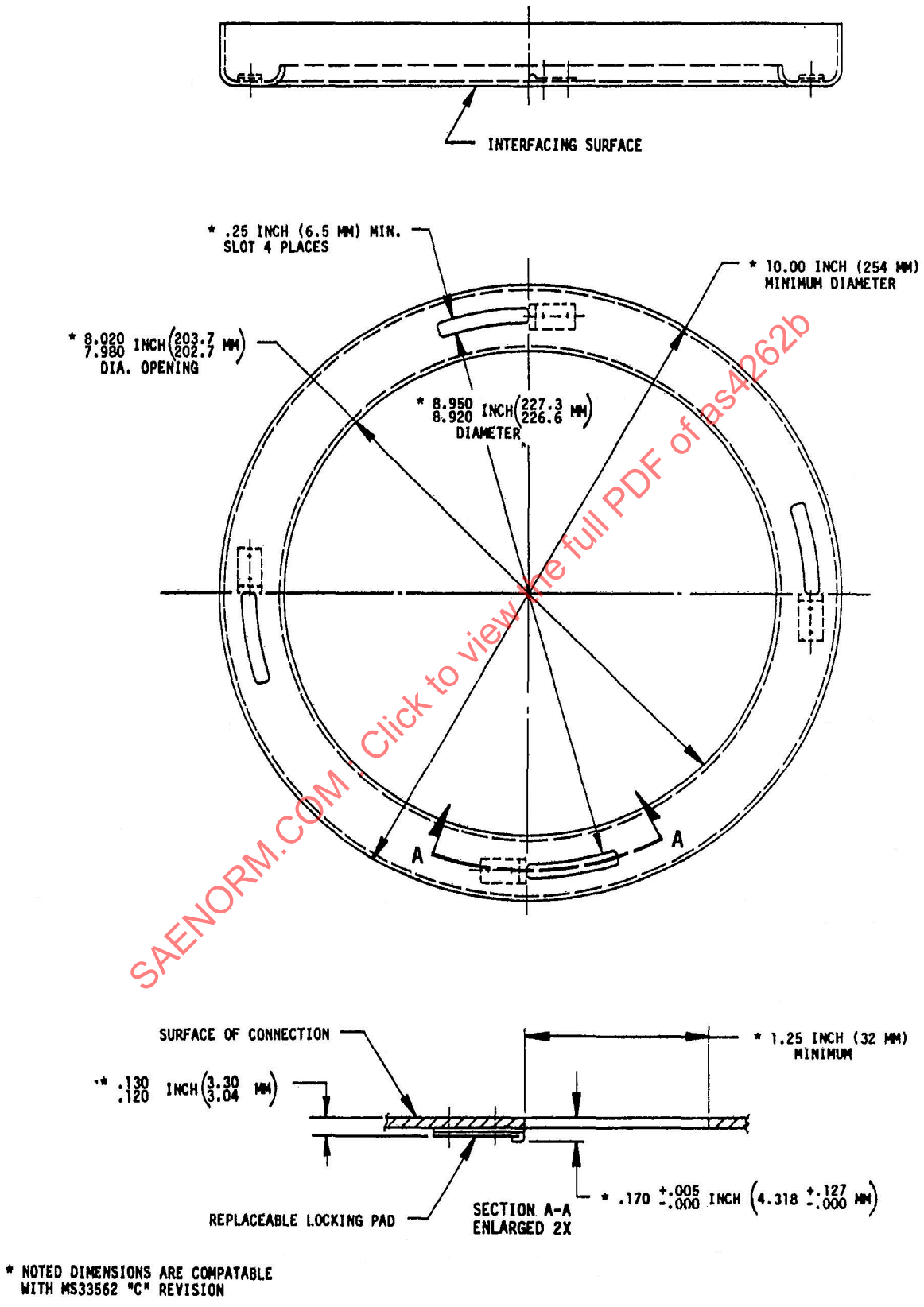

FIGURE 1 - AIRCRAFT CONNECTION - TYPE A

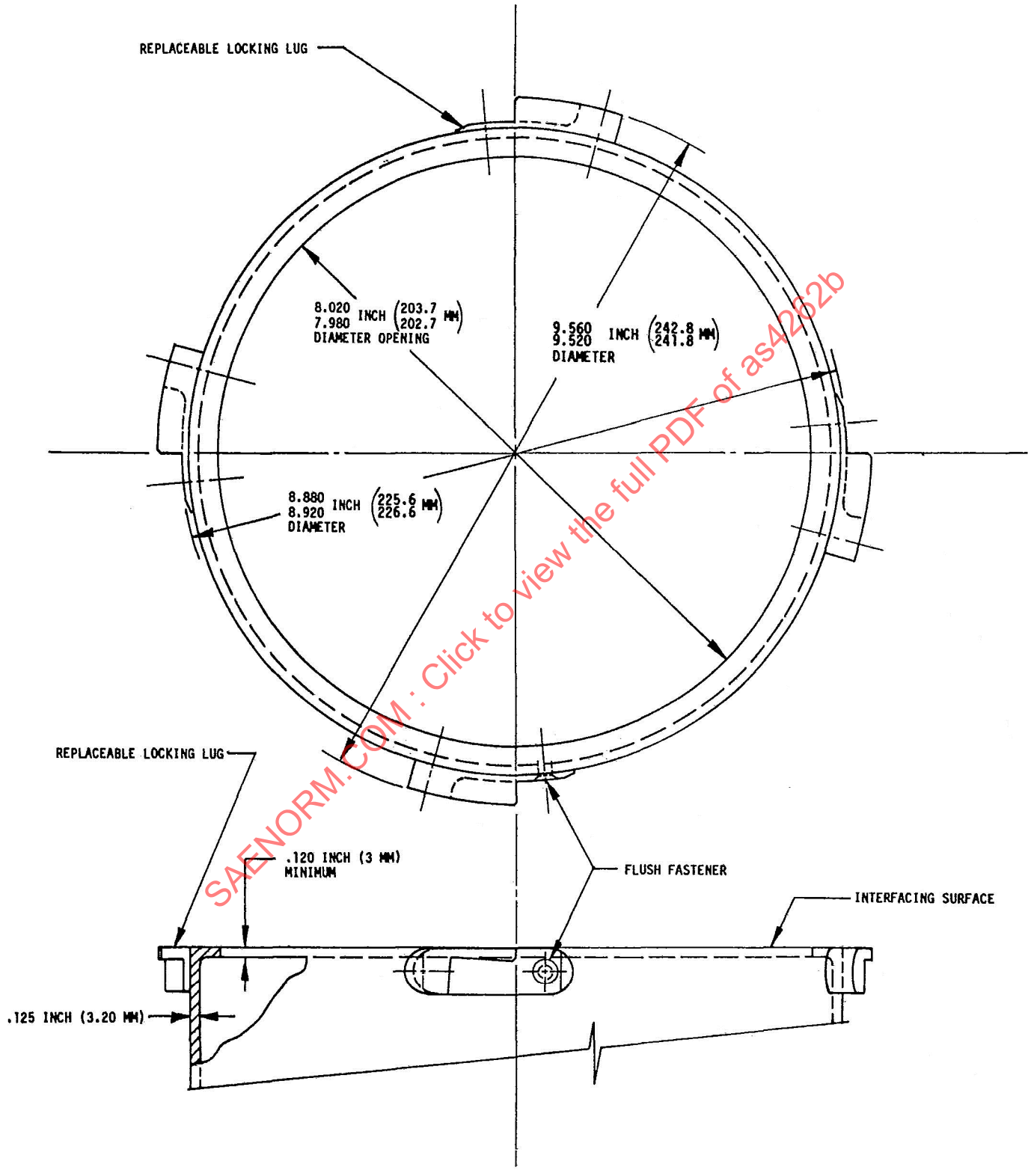

FIGURE 2 - AIRCRAFT CONNECTION - TYPE B

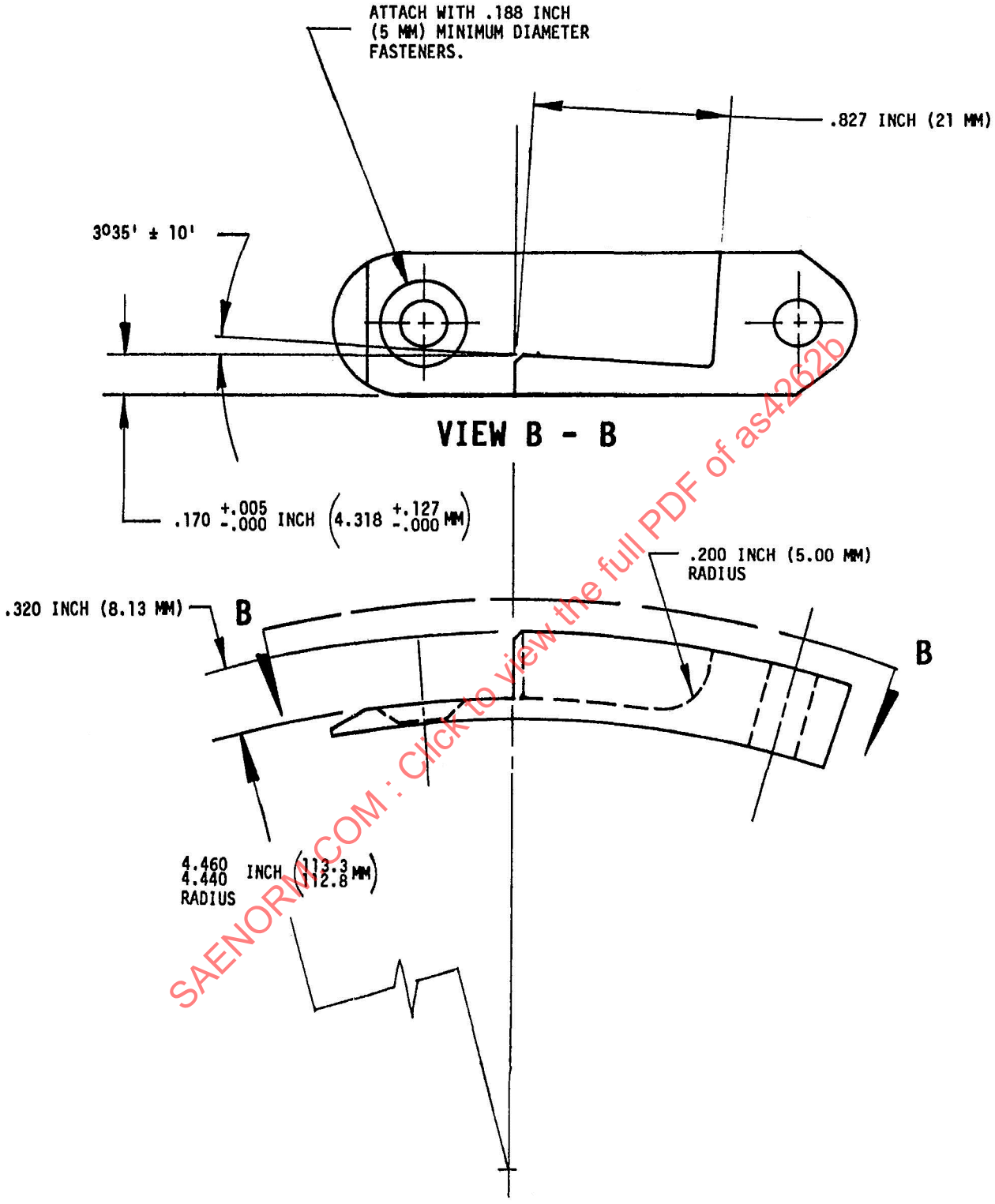

FIGURE 3 - EXAMPLE OF TYPE B CONNECTION LOCKING LUG

2.2 ISO International standards

Available from American Iron and Steel Institute, 1140 Connecticut Avenue, NW, Suite 705, Washington, DC 20036, Tel: 202-452-7100, www.steel.org or International Organization for Standardization, 1, rue de Varembe, Case postale 56, CH-1211 Geneva 20, Switzerland, Tel: +41-22-749-01-11, www.iso.org, or any of the national standardization institutes.

ISO 1034 Aircraft - Ground air-conditioning connections

2.3 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, http://assist.daps.dla.mil/quicksearch/.

MS33562 U.S. Military Standard, (ASG) Connection, Aircraft Ground Air Conditioning, 8 Inch, Minimum Requirements (corresponding to type A connection)

2.4 Definitions

For the purpose of this specification, the following terminology shall apply:

2.4.1 GROUND AIR CONDITIONING SERVICE CONNECTION

The fitting on the aircraft that accommodates the attachment of a conditioned air hose from an external supply source. It will hereafter be known as the service connection or connection.

2.4.2 GROUND AIR CONDITIONING SUPPLY HOSE COUPLING

The terminal fitting on the ground air conditioning supply hose. It will hereafter be known as the hose coupling or coupling.

3. EFFECTIVITY

This document is applicable to new aircraft designs. Airlines are also encouraged to consider this standard when modifying or repairing existing aircraft configurations. The minimum essential criteria are identified by the use of the key word "shall". Recommended criteria are identified by the key word "should" and while not mandatory, are considered to be of primary importance in providing serviceable, economical, and practical ground air conditioning connections. Deviation from the recommended criteria should occur only after careful consideration, extensive testing, and thorough service evaluation have shown alternate methods to be satisfactory.

4. REQUIREMENTS

4.1 Interface Configuration

The interfacing surface and locking features of the aircraft service connection shall dimensionally comply with either Figures 1, or 2, and 3 of this specification.

The Type A flange permits use of slot filling coupler design known as a bayonet claw type coupler.

The Type B is the Type A interface with the addition of external locking lugs.

4.2 Hose Coupling Clearances

Clearance requirements to accommodate ground equipment hose couplings that will interface with the air conditioning service connection specified herein are defined in Figure 4 of this specification.