

NATO STANDARD

AASSEP-08

AIR CONDITIONING CONNECTIONS

Edition A Version 1

OCTOBER 2019



NORTH ATLANTIC TREATY ORGANIZATION

**ALLIED AIRCRAFT SERVICING AND STANDARD EQUIPMENT
PUBLICATION**

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NORTH ATLANTIC TREATY ORGANIZATION (NATO)

NATO STANDARDIZATION OFFICE (NSO)

NATO LETTER OF PROMULGATION

9 October 2019

1. The enclosed Allied Aircraft Servicing and Standard Equipment Publication AASSEP-08, Edition A, Version 1, AIR CONDITIONING CONNECTIONS, which has been approved by the nations in the Military Committee Air Standardization Board (MCASB), is promulgated herewith. The agreement of nations to use this publication is recorded in STANAG 3208.
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Brigadier General, HUNAF
Director, NATO Standardization Office

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RECORD OF SPECIFIC RESERVATIONS

[nation]	[detail of reservation]
CZE	The Czech Republic reserves the right not to modify future aircrafts/equipment acquired from manufactures where these do not conform to this STANAG.
FRA	France will only apply this STANAG to the following aircraft: Atlantique 2, E-2 C Hawkeye, MRTT and A 400 M.
ITA	ITA Air Force applies the STANAG only in the AIR BASE where the following aircraft are allocated: F35, P72, C130J, K767A. ITA Air Force reserves to apply the STANAG to other assets in the future.
SVN	SVN does not have aircraft equipped by connections required in this STANAG, as does not have equipment to facilitate cross-servicing to other nations' aircraft. Requirements of this STANAG will be desirable criteria for future aircraft procurements. Because SVN acquire all aircraft from foreign manufacturers, implementation of this STANAG will also depend on aircraft type and capability of the manufacturer to comply with the requirements in this STANAG. SVN reserves the right not to modify any already procured aircraft in order to comply with the STANAG requirements.
USA	For the USA, the U.S. Air Force does not have any HVAC support equipment utilizing 4 inch ducts. NATO Standard AASSEP-8 calls out duct sizes of 4 inches, 5 inches and 8 inches. MS33561B is the corresponding USA drawing for the 5 inch duct. MS33562D is the corresponding USA drawing for the 8 inch duct. There is not an active USA Military Specification (MS) drawing for the 4 inch size.
<p>Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.</p>	

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Chapter 1 SPECIFICATIONS

1.1. Related documents

ISO 1034 AIRCRAFT - GROUND AIR CONDITIONING CONNECTIONS

1.2. Aim

The aim of this agreement is to standardize air conditioning connections on aircraft for air conditioning on the ground of the aircraft and its installed equipment in order to facilitate cross-servicing to other nations' aircraft.

1.3. Agreement

Participating nations agree to the requirements detailed below:

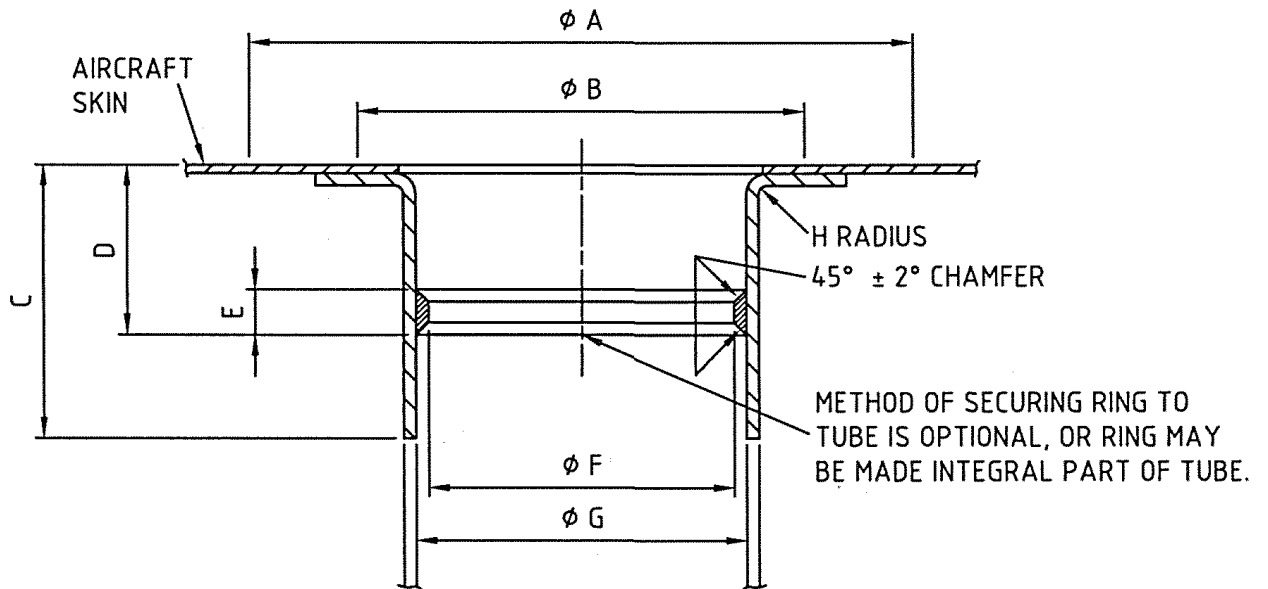
- a. Connections provided on aircraft for air conditioning of the aircraft and/or installed equipment on the ground shall have nominal diameter of 4 inch (102 mm), 5 inch (127 mm) or 8 inch (203 mm).
- b. The 4 inch (102 mm) nominal size shall conform to the requirements shown in Figure 1, the 5 inch (127 mm) nominal size shall conform to figure 2 and the 8 inch (203 mm) nominal size shall conform to Figure 3 of this agreement.
- c. Minimum clearance space at the aircraft skin to accommodate 8 inch (203 mm) nominal size connectors which have locking levers shall conform to the requirements shown in Figure 4.
- d. The ground half connectors on the equipment for air conditioning of an aircraft and its installed equipment shall be capable of connecting to the aircraft connectors shown in this STANAG.

1.4. Implementation of the agreement

This STANAG is implemented when a nation has issued instructions that future aircraft and aircraft air conditioning equipment will be in accordance with this agreement.

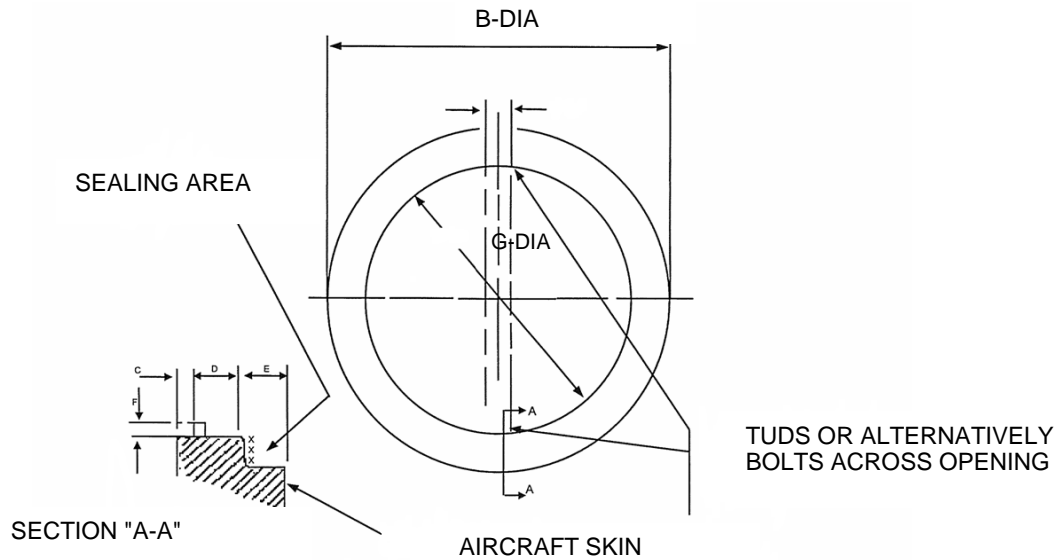
1.5. Defence against terrorism

Aircraft equipment and materiel shall be labelled, processed and stored in such a manner as to preclude access and tampering by unauthorized personnel. Said equipment shall be inspected and certified prior to use or application to ensure operational integrity and reliability. Servicing and maintenance of aircraft shall be performed ONLY by authorized personnel.



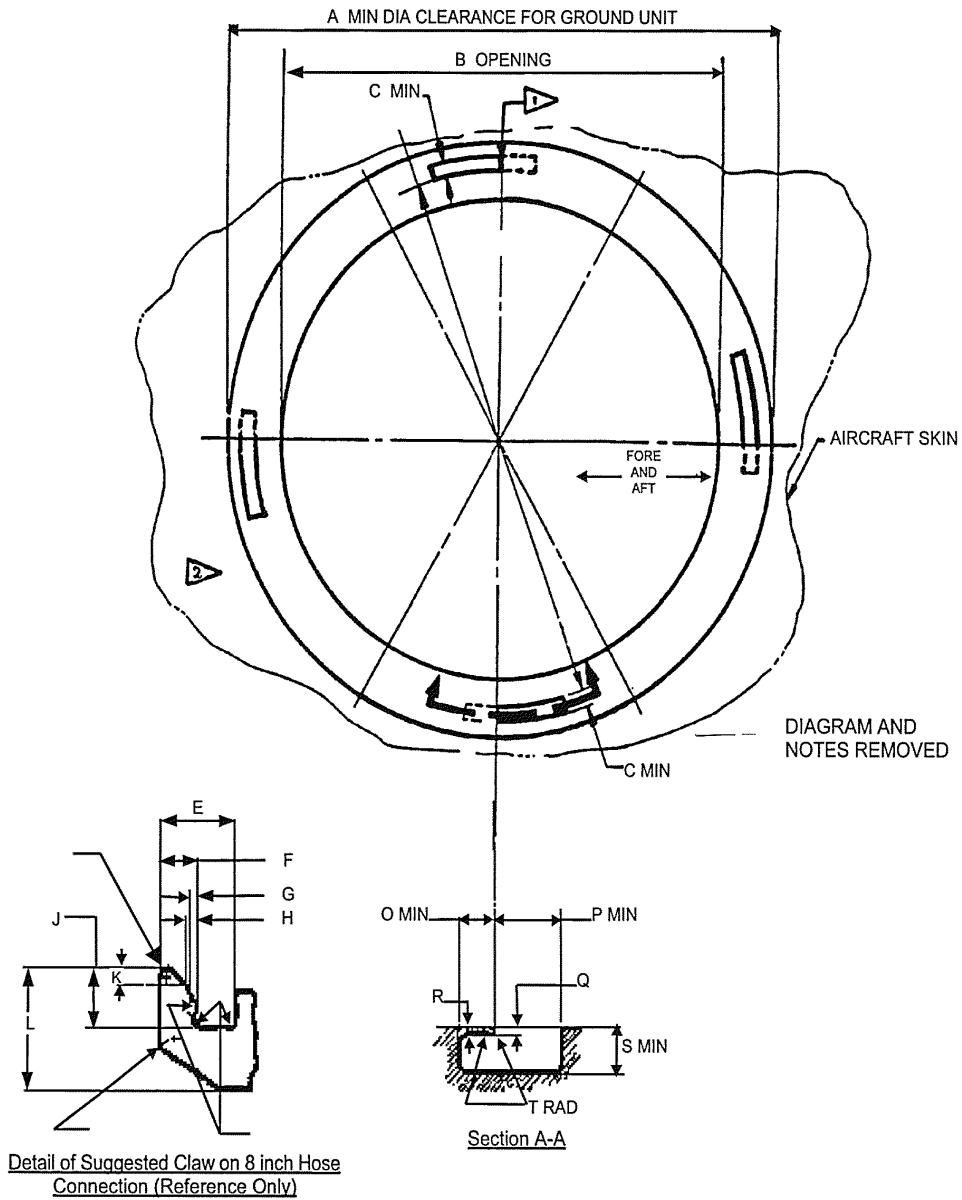
DIMENSIONS	MINIMUM		MAXIMUM		REMARKS
	INCHES	MILLIMETRES	INCHES	MILLIMETRES	
ØA	8.000	203,20	-	-	SUFFICIENTLY CLEAR TO PERMIT PERSONNEL TO CONNECT GROUND COUPLING
ØB	5.250	133,25	-	-	CLEARANCE TO ALLOW GROUND COUPLING TO CONTACT SKIN OF AIRCRAFT
C	3.375	85,73	-	-	
D	1.470	37,34	1.530	38,86	
E	0.350	8,89	0.410	10,41	
ØF	4.000	101,60	4.016	102,01	
ØG	4.064	103,23	4.079	103,61	
H	0.156	3,96	0.375	9,53	

Figure 1.
4 Inch (102 mm) Aircraft connection for ground air conditioning
(minimum requirements)



DIMENSIONS	MINIMUM		MAXIMUM		REMARKS
	INCHES	MILLIMETRES	INCHES	MILLIMETRES	
B	7.000	177,80	-	-	Clearance for ground unit and sealing area.
C	0.450	11,45	-	-	Clearance for claw.
D	1.200	30,48	1.300	33,02	
E	-	-	1.000	25,40	
F	0.375	9,53	-	-	
G	5.100	129,54	5.300	134,62	
H	-	-	0.250	6,35	

Figure 2.
5 Inch (127 mm) Aircraft connection for ground air conditioning





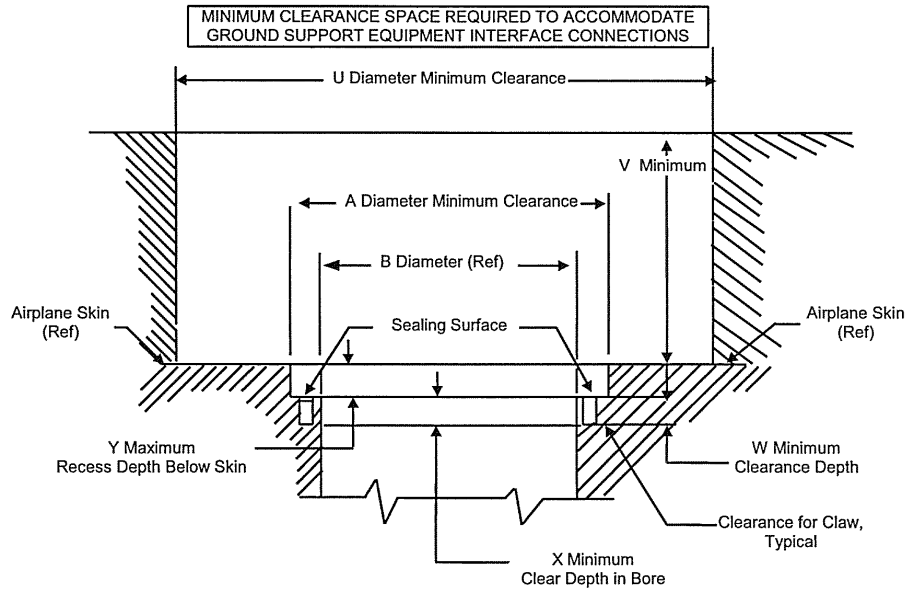
-  BAYONET (CLAW) OF 8-INCH DIAMETER GROUND SUPPORT CONNECTION ENGAGES AGAINST THIS FACE (TYPICAL 4 PLACES).
-  PREVIOUS DESIGNS OF AIRCRAFT STILL IN PRODUCTION MAY NOT COMPLY WITH REQUIREMENTS; IN PARTICULAR, THE REQUIREMENT FOR FOUR SLOTS INSTEAD OF TWO SLOTS.

Figure 3.
8 Inch (203 mm) Aircraft connection for ground air conditioning
(minimum requirements)



DIMENSION	MINIMUM		MAXIMUM		DIMENSION	MINIMUM		MAXIMUM	
	INCHES	MM	INCHES	MM		INCHES	MM	INCHES	MM
A	10.000	254,00	-	-	N	0.037	0,94	0.057	1,45
B	7.980	202,69	8.020	203,71	O	0.640	16,26	-	-
C	0.250	6,35	-	-	P	1.250	31,75	-	-
D	8.920	226,57	8.950	227,33	Q	0.170	4,32	0.175	4,45
E	0.890	22,61	0.910	23,11	R	0.120	3,05	0.130	3,30
F	0.427	10,85	0.447	11,35	S	0.740	18,80	-	-
G	0.037	0,95	0.057	1,45	T	0.035	0,89	0.055	1,40
H	0.084	2,13	0.104	2,64	U	17.000	431,80	-	-
I	0.084	2,13	0.104	2,64	V	10.000	254,00	-	-
J	0.615	15,62	0.625	15,88	W	0.740	18,80	-	-
K	0.190	4,83	0.210	5,33	X	0.55	13,97	-	-
L	1.290	32,77	1.310	33,27	Y	-	-	1.000	25,40
M	0.177	4,50	0.197	5,00					

Figure 4.
8 Inch (203 mm) Aircraft connection for ground air conditioning
minimum clearance and dimensions

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