



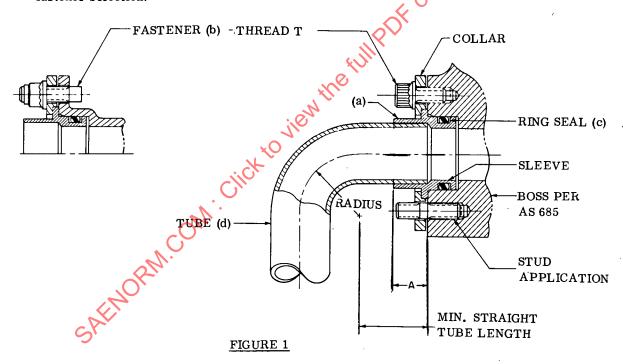
AEROSPACE STANDARD Society of Automotive Engineers, Inc.

686

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PILOTED RING SEAL TUBE SWIVEL CONNECTION ASSEMBLY

- ŀ. PURPOSE - To provide design criteria and an index of parts and standards for piloted ring seal tube swivel connections.
- 2. SCOPE - This standard presents the designer with sufficient information to fully define the configuration of the connection and to determine the limits of application for given conditions.
- 3. DETAIL REQUIREMENTS
- 3.1 The assembly diagram in Figure I shows the connection assembly with the alternative fastener selection.



- (a) Use ARP 573, "Silver and Copper Alloy Brazed Joints for Aircraft Power Plants," for the fabrication of the tube and sleeve assembly. Caution: Cadmium plated parts cannot be subjected to brazing cycle temperature.
- (b) On thru-fastener design use a connector with turned flange and slab head bolts, and provide adequate flange and shell wall thickness based on strength requirements using the standard collars and sleeve.
- (c) Ring seals to be coated sparingly with petrolatum or the fluid used in the system and assembled in groove of sleeve. Rotation of sleeve recommended to assure proper positioning of ring seal.
- (d) Tube may be straight or formed to desired bend radius per AS 130, "Bending Radius, Tube. "

(This document supersedes and cancels ARP 686, issued 3-15-66, and AS 687A, issued 1-15-63.)