



# AEROSPACE STANDARD

AS6817™

Issued 2019-11

Valve, Inflation, Aircraft Wheel

## RATIONALE

This document is written to provide information on the selection of aircraft wheel mounted tubeless tire inflation valve assemblies and their components.

### 1. SCOPE

This SAE Aerospace Standard (AS) defines the configuration of aircraft wheel inflation valve assemblies, including required tolerances, materials, and appropriate finishes.

### 2. APPLICABLE DOCUMENTS

The following documents form a part of this document to the extent specified within. 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 regulation 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 +1 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| AMS3304      | Elastomer: Silicone, Rubber (MQ/VMQ), General Purpose, 65 - 75 Durometer Type 'A' Hardness |
| AMS5640      | Steel, Corrosion Resistant, Bars, Wire, and Forgings 18Cr – 9.0Ni Free Machining           |
| AMS-QQ-P-416 | Plating, Cadmium (Electrodeposited)                                                        |
| AS930        | Fitting End, Straight Thread, Port Connection, Design Standard                             |
| AS3582       | Packing, Preformed - O-Ring Seal, AMS3304                                                  |
| AS5202       | Port or Fitting End, Internal Straight Thread, Design Standard                             |

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## 2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, [www.astm.org](http://www.astm.org).

ASTM B339 Standard Specification for Pig Tin

ASTM B545 Standard Specification for Electrodeposited Coatings of Tin

## 2.3 Tire and Rim Association Publications

Available from The Tire and Rim Association, Inc., 175 Montrose West Avenue, Suite 150, Copley, OH 44321, Tel: 330-666-8121, [www.us-tra.org](http://www.us-tra.org).

Aircraft Year Book

## 2.4 U.S. Military Specifications

Copies of these documents are available online at <http://quicksearch.dla.mil>.

A-A-52611 Valves and Valve Spuds, Caps, and Cores, Pneumatic Tire

AND10050 Detail Specification Sheet: Bosses, Standard Dimensions for Gasket Seal Straight Thread

MIL-STD-130 Identification Marking of US Military Property

MIL-S-7720 Military Specification, Steel, Corrosion-Resistant (18-8) Bars, Wire and Forging Stock (Aircraft Quality)

MIL-T-10727 Tin Plating, Electrodeposited or Hot Dipped for Ferrous and Nonferrous Metals

MIL-V-27317 Valve Core, Pneumatic Tire, Inner Tube and Tubeless, Aircraft

MS9068 Packing, Preformed

MS20813 Cap, Pneumatic Valve, High Pressure

MS27436 Valve Special, Aircraft Wheel

ZZ-V-25 Federal Specification, Valves and Valve Spuds, Caps, and Cores, Pneumatic Tire

## 3. REQUIREMENTS

### 3.1 Tire and Rim Standards

All valves shall meet the standards set forth in The Tire and Rim Association Aircraft Year Book, which is issued annually.